



## METROPOLITAN TRANSPORTATION AUTHORITY

(A Component Unit of the State of New York)

## ANNUAL COMPREHENSIVE FINANCIAL REPORT

For the Years Ended December 31, 2021 and 2020

Prepared by the Office of the Controller

Kevin Willens, Chief Financial Officer James McGovern, Acting Deputy Chief

2 Broadway, New York, New York 10004



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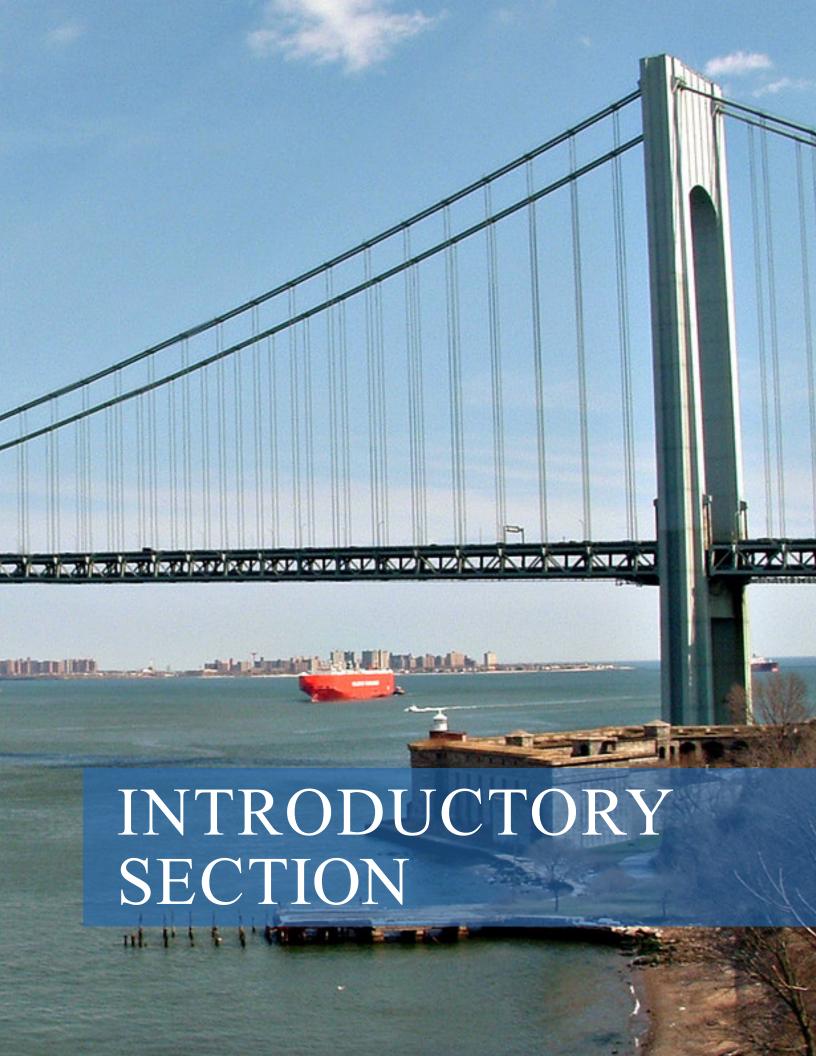
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# Metropolitan Transportation Authority State of New York

June 30, 2022

Chairman and Members of the Board Metropolitan Transportation Authority

I hereby submit the Annual Comprehensive Financial Report ("Annual Report") of the Metropolitan Transportation Authority ("MTA," the "Authority") prepared by the Controller's Office for the year ended December 31, 2021. Responsibility for both the accuracy of the enclosed data and the completeness and fairness of the presentation, including all disclosures, rests with the MTA. I believe that the data as presented is accurate in all material respects and that the information is presented in a manner designed to set forth fairly the financial position and results of operations of the MTA in accordance with generally accepted accounting principles.

## **Operating Budget**

The MTA employs a robust multi-year financial planning process. The plan for itself and its affiliates and subsidiaries is updated throughout the year in order to enable all such entities to include the impact of operational efficiencies and cost reductions. MTA Financial Plans provide a framework for financial and debt management of the operating and capital budgets.

Budgetary Controls - The MTA maintains budgetary procedures in order to ensure compliance with the annual operating budgets approved by the MTA Board. It is the responsibility of each office to administer its operations in such a manner as to ensure that the use of funds is consistent with the goals and programs authorized by the Board and that approved levels are not exceeded.

MTA budgeting is a rigorous and thorough process that begins in the spring and culminates with the passage of the Budget in December. In the course of a year, MTA prepares a February, July, and November Financial Plan, and the Financial Plan Adoption Materials in December. In addition to the existing year, each Plan requires Agencies to prepare four-year projections which include the upcoming and three future calendar years.

The July Financial Plan presents actual results from the previous year, a revised forecast of the current year's finances, a preliminary presentation of the following year's proposed budget, and a three-year reforecast of out-year finances. This Plan may include a series of gap-closing proposals necessary to maintain a balanced budget and actions requiring public hearings. The Mid-Year Forecast is allocated over the remaining months of the calendar year and becomes the basis upon which monthly results are compared for the remainder of the year. After stakeholders weigh in and the impact of new developments and risks are quantified, a November Plan is prepared, which is an update to the July Financial Plan. The November Plan includes actual results from the previous year, a revised current year forecast, the finalization of the proposed budget for the upcoming year, and projections for the three out-years. In December, the November Plan is updated to capture further developments, risks, and actions that are necessary to ensure budget balance, which is ultimately presented to the MTA Board for review and approval. Finally, in the February Plan or Adopted Budget, the below-the-line policy issues are moved into the baseline and technical adjustments are made. The current year (Adopted Budget) is allocated over a period of 12 months and becomes the basis upon which monthly results are compared until it is replaced by the Mid-Year Forecast.

The plans include detailed assumptions of revenues, expenditures, and subsidies, as well as utilization of services on a consolidated basis and updates on the capital programs. The Financial Plan also contains budget information for the subsidiaries and affiliates. Every Financial Plan also addresses debt service and its key debt structuring elements, which are reviewed and approved by the MTA Board.

To the best of my knowledge, all disclosures necessary to enable the reader to gain an understanding of the MTA's financial affairs have been included. Additional information is contained in the Management's Discussion and Analysis beginning on page 15.



## **Capital Budget**

The MTA also employs a robust multi-year capital program planning process. The MTA is required by statute to develop a five-year capital plan for review and approval by the Capital Program Review Board ("CPRB"). Each five-year plan identifies the capital projects and funding sources. CPRB members are appointed by the Governor. Formal revisions to a capital plan may be submitted to the CPRB as needed. The Triborough Bridge and Tunnel Authority ("TBTA") is not required to seek approval from the CPRB for its Capital Program. The MTA (including TBTA) develops a five-year capital plan informed by a strategic Twenty-Year Capital Needs Assessment, which identifies needs to achieve and then maintain a state of good repair and supports long-term service goals. As a member of the New York Metropolitan Transportation Council, the MTA also participates in the Regional Transportation Plan, which sets the region's transportation agenda for the next twenty-five years. MTA and TBTA regularly report progress on the capital plans to the MTA Board.

Updates regarding operations, the operating budget, and capital plans are presented to the MTA Committees and Board monthly.

## **The Reporting Entity**

The MTA is a public benefit corporation and the largest public transportation provider in the Western Hemisphere. It was chartered by the New York State Legislature in 1968. Its agencies serve 15 million people spread over 5,000 square miles from New York City through Long Island, southeastern New York State, and Connecticut. MTA agencies move more than 2.7 billion rail and bus customers a year.

The MTA is governed by a Board consisting of a Chairman, sixteen other voting Members and six non-voting Members, all of whom are appointed by the Governor, with four recommended by New York City's mayor and one each by the county executives of Nassau, Suffolk, Westchester, Dutchess, Orange, Rockland, and Putnam counties. (Members representing the last four counties cast one collective vote). The six non-voting seats are held evenly by members of the Permanent Citizens Advisory Committee ("PCAC"), which serves as a voice for users of MTA transit and commuter services, and by representatives of organized labor. All voting and non-voting Members are confirmed by the New York State Senate.

The financial reporting entity consists of subsidiaries and affiliates considered component units of the MTA and Fiduciary Funds considered fiduciary component units. The MTA provides transportation services in the New York metropolitan area, operations of seven bridges and two tunnels within New York City and primary insurance coverage. The MTA engages in Business-Type Activities. For financial reporting purposes, the financial results of the MTA are reported as consolidated financial statements because the oversight boards of each agency consist of the same members. The MTA is comprised of the following MTA operating agencies.

The following table shows the legal and popular names of the MTA operating agencies:

Legal Name:	Popular Name:
Begut i tunter	1 optitie 1 time:

New York City Transit Authority MTA New York City Transit
Staten Island Rapid Transit Operating Authority MTA Staten Island Railway

The Long Island Rail Road Company MTA Long Island Rail Road

Metro-North Commuter Railroad Company MTA Metro-North Railroad
Triborough Bridge and Tunnel Authority MTA Bridges and Tunnels

MTA Construction and Development Company MTA Construction and Development

MTA Bus Company MTA Bus

First Mutual Transportation Assurance Company FMTAC



The Fiduciary Funds are comprised of the following MTA fiduciary component units, categorized within Pension and Other Employee Benefit Trust Funds and reported as Fiduciary Activities of the MTA. Separate financial statements are reported for the Fiduciary Funds.

## Pension Trust Funds

MTA Defined Benefit Plan

The Long Island Railroad Company Plan for Additional Pensions

Manhattan and Bronx Surface Transit Operating Authority

Metro-North Commuter Railroad Company Cash Balance Plan

## Other Employee Benefit Trust Funds

MTA Other Postemployment Benefits Plan

## **Accounting**

Management of the MTA is responsible for establishing and maintaining an internal control structure to ensure that the assets of the MTA are protected from loss, theft, or misuse, and ensure that adequate accounting data are compiled to allow for the preparation of financial statements in conformity with generally accepted accounting principles. Because the cost of internal control should not exceed anticipated benefits, the objective of the controls is to provide reasonable, rather than absolute, assurance that the financial statements are free of any material misstatements.

Basis of Accounting - The MTA prepares the consolidated financial statements of the business-type activities and the financial statements of the fiduciary activities using the accrual basis of accounting. The activities of the MTA are similar to those of proprietary funds of local jurisdictions and are therefore reported in conformity with governmental accounting and financial reporting principles issued by the Governmental Accounting Standards Board ("GASB").

## **Independent Audit**

The accounting firm of Deloitte & Touche LLP performed the annual audit of the Financial Statements of the MTA in accordance with auditing standards generally accepted in the United States of America. The report of the independent auditors on the Financial Statements of the MTA is included in the Financial Section of this Annual Report.

## **Awards**

Government Finance Officers Association of the United States and Canada ("GFOA") awarded a Certificate of Achievement for Excellence in Financial Reporting to the MTA for its annual comprehensive financial report for the year ended December 31, 2020. This was the 27th consecutive year that the MTA has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government or government agency must publish an easily readable and efficiently organized annual comprehensive financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current annual comprehensive financial report continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

#### Acknowledgments

The preparation of the annual comprehensive financial report on a timely basis was made possible by the dedicated service of the entire staff of the Comptroller's Office. Each member of the office has our sincere appreciation for the contributions made in the preparation of this report.

Sincerely, ,

Kevin Willens, Chief Financial Officer



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

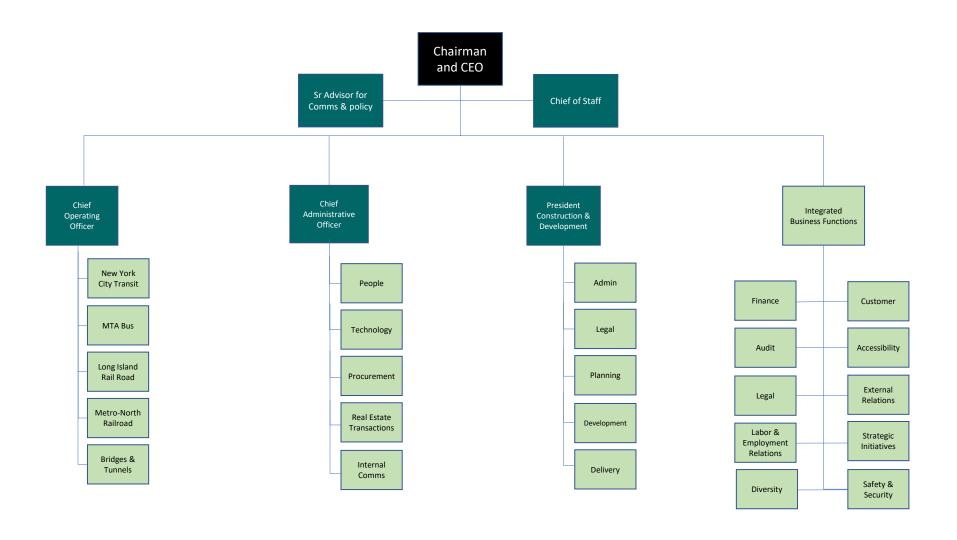
Presented to

## Metropolitan Transportation Authority New York

For its Annual Comprehensive Financial Report For the Fiscal Year Ended

December 31, 2020

Chuitophu P. Morrill
Executive Director/CEO







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#### INDEPENDENT AUDITOR'S REPORT

To the Members of the Board of Metropolitan Transportation Authority

## **Opinions**

We have audited the financial statements of the business-type activities and fiduciary activities of the Metropolitan Transportation Authority (the "MTA"), a component unit of the State of New York, as of and for the years ended December 31, 2021 and 2020, and the related notes to the financial statements, which collectively comprise the MTA's basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements referred to above present fairly, in all material respects, the respective financial position of the business-type activities and fiduciary activities of the MTA as of December 31, 2021 and 2020, and the respective changes in financial position and, where applicable, cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

#### **Basis for Opinions**

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the MTA and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

## **Emphasis of Matter**

As discussed in Note 1 to the financial statements, the MTA is a component unit of the State of New York. The MTA requires significant subsidies from, and has material transactions with, the City of New York, the State of New York, and the State of Connecticut, and depends on certain tax revenues that are economically sensitive. Our opinions are not modified with respect to this matter.

## Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the MTA's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

## Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of

not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we

- exercise professional judgment and maintain professional skepticism throughout the audit.
- identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the MTA's internal control. Accordingly, no such opinion is expressed.
- evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the MTA's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control—related matters that we identified during the audit.

## **Required Supplementary Information**

Accounting principles generally accepted in the United States of America require that the required supplementary information on pages 15-33 and 116-139, as listed in the table of contents, be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

## **Supplementary Information**

Our audits were conducted for the purpose of forming opinions on the financial statements that collectively comprise the MTA's basic financial statements. The supplementary information on pages 140-146, as listed in the table of contents, are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audits of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the supplementary information on pages 140-146 are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

## **Other Information**

Management is responsible for the other information included in the annual comprehensive financial report. The other information comprises the introductory section and statistical section but does not include the basic financial statements and our auditor's report thereon. Our opinions on the basic financial statements do not cover the other information, and we do not express an opinion or any form of assurance thereon.

In connection with our audit of the basic financial statements, our responsibility is to read the other information and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

June 2, 2022

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### METROPOLITAN TRANSPORTATION AUTHORITY

(A Component Unit of the State of New York)

MANAGEMENT'S DISCUSSION AND ANALYSIS (UNAUDITED) AS OF AND FOR THE YEARS ENDED DECEMBER 31, 2021 AND 2020

(\$ In Millions, except as noted)

#### FINANCIAL REPORTING ENTITY

The Metropolitan Transportation Authority ("MTA" or "MTA Group") was established under the New York Public Authorities Law and is a public benefit corporation and a component unit of the State of New York whose mission is to continue, develop, and improve public transportation and to develop and implement a unified public transportation policy in the New York metropolitan area. The financial reporting entity consists of subsidiaries and affiliates, considered component units of the MTA, because the Board of the MTA serves as the overall governing body of these related entities.

The Reporting entity includes:

- (1) the MTA is comprised of the following:
  - Metropolitan Transportation Authority Headquarters ("MTAHQ") provides support in budget, cash management, finance, legal, real estate, treasury, risk and insurance management, and other services to the related groups listed below.
  - The Long Island Rail Road Company ("MTA Long Island Rail Road") provides passenger transportation between New York City ("NYC") and Long Island.
  - Metro-North Commuter Railroad Company ("MTA Metro-North Railroad") provides passenger transportation between NYC and the suburban communities in Westchester, Dutchess, Putnam, Orange, and Rockland counties in New York State ("NYS") and New Haven and Fairfield counties in Connecticut.
  - Staten Island Rapid Transit Operating Authority ("MTA Staten Island Railway") provides passenger transportation on Staten Island.
  - First Mutual Transportation Assurance Company ("FMTAC") provides primary insurance coverage for certain losses, some of which are reinsured, and assumes reinsurance coverage for certain other losses.
  - MTA Construction and Development Company ("MTA Construction and Development"), formerly called MTA Capital Construction Company, provides oversight for the planning, design and construction of current and future major MTA system-wide expansion projects.
  - MTA Bus Company ("MTA Bus") operates certain bus routes in areas previously served by private bus operators pursuant to franchises granted by the City of New York.
  - New York City Transit Authority ("MTA New York City Transit") and its subsidiary, Manhattan and Bronx Surface
    Transit Operating Authority ("MaBSTOA"), provide subway and public bus service within the five boroughs of New
    York City.
  - Triborough Bridge and Tunnel Authority ("MTA Bridges and Tunnels") operates seven toll bridges, two tunnels, and the Battery Parking Garage, all within the five boroughs of New York City.
  - MTAHQ, MTA Long Island Rail Road, MTA Metro-North Railroad, MTA Staten Island Railway, FMTAC, MTA Capital
    Construction, MTA Bus, MTA New York City Transit, and MTA Bridges and Tunnels collectively are referred to herein
    as MTA. MTA Long Island Rail Road and MTA Metro-North Railroad are referred to collectively as the Commuter
    Railroads.

The MTA provides transportation services in the New York metropolitan area, operations of seven bridges and two tunnels within New York City and primary insurance coverage. The MTA engages in Business-Type Activities. The financial results of the MTA are reported as consolidated financial statements.

- (2) Fiduciary Funds comprised of Pension and Other Employee Benefit Trust Funds:
  - Pension Trust Funds:
    - MTA Defined Benefit Pension Plan
    - The Long Island Rail Road Company Plan for Additional Pensions ("Additional Plan")
    - Manhattan and Bronx Surface Transit Operating Authority ("MaBSTOA Plan")



- Metro-North Commuter Railroad Cash Balance Plan ("MNR Cash Balance Plan")
- Other Employee Benefit Trust Funds
  - MTA Other Postemployment Benefits Plan ("OPEB Plan")

#### OVERVIEW OF THE CONSOLIDATED FINANCIAL STATEMENTS

#### Introduction

This report consists of: Management's Discussion and Analysis ("MD&A"), Consolidated Financial Statements, Fiduciary Funds Financial Statements, Notes to the Consolidated Financial Statements, Required Supplementary Information, Supplementary Information - Combining Fiduciary Fund Financial Statements, and Supplementary Information.

#### Management's Discussion and Analysis

This MD&A provides a narrative overview and analysis of the financial activities of the Metropolitan Transportation Authority and its consolidated subsidiaries and affiliates (the "MTA" or "MTA Group") as of and for the years ended December 31, 2021 and 2020. For financial reporting purposes, the subsidiaries and affiliates of the MTA are blended component units. This management discussion and analysis is intended to serve as an introduction to the MTA Group's consolidated financial statements. It provides an assessment of how the MTA Group's position has improved or deteriorated and identifies the factors that, in management's view, significantly affected the MTA Group's overall financial position. It may contain opinions, assumptions, or conclusions by the MTA Group's management that must be read in conjunction with, and should not be considered a replacement for, the consolidated financial statements.

#### The Consolidated Financial Statements

The Consolidated Statements of Net Position, which provide information about the nature and amounts of resources with present service capacity that the MTA Group presently controls (assets), consumption of net assets by the MTA Group that is applicable to a future reporting period (deferred outflow of resources), present obligations to sacrifice resources that the MTA Group has little or no discretion to avoid (liabilities), and acquisition of net assets by the MTA Group that is applicable to a future reporting period (deferred inflow of resources) with the difference between assets/deferred outflow of resources and liabilities/deferred inflow of resources being reported as net position.

The Consolidated Statements of Revenues, Expenses and Changes in Net Position, which provide information about the MTA's changes in net position for the period then ended and accounts for all of the period's revenues and expenses, measures the success of the MTA Group's operations during the year and can be used to determine how the MTA has funded its costs.

The Consolidated Statements of Cash Flows, which provide information about the MTA Group's cash receipts, cash payments and net changes in cash resulting from operations, noncapital financing, capital and related financing, and investing activities.

## The Fiduciary Funds Financial Statements

Fiduciary funds are used to account for resources held in a trustee capacity for the benefit of parties outside of a government entity. Fiduciary funds are not reported in the MTA's consolidated financial statements because the resources of those funds are not available to support the MTA's own programs. The MTA's fiduciary funds are collectively reported as Pension and Other Employee Benefit Trust Funds.

The Statements of Fiduciary Net Position presents financial information about the assets, liabilities, and the fiduciary net position held in trust of the fiduciary funds of the MTA.

The Statements of Changes in Fiduciary Net Position presents fiduciary activities of the fiduciary funds as additions and deductions to the fiduciary net position.

#### Notes to the Consolidated Financial Statements

The notes provide information that is essential to understanding the consolidated financial statements, such as the MTA Group's accounting methods and policies, details of cash and investments, employee benefits, long-term debt, lease transactions, future commitments and contingencies of the MTA Group, and information about other events or developing situations that could materially affect the MTA Group's financial position.

## Required Supplementary Information

The required supplementary information provides information about the changes in the net pension liability and net other postemployment benefits ("OPEB") liability, employer contributions for the OPEB and pension plans, actuarial assumptions used to calculate the net pension liability and net OPEB liability, historical trends, and other required supplementary information related to the MTA Group's cost-sharing multiple-employer defined benefit pension plans.



## Supplementary Information - Combining Fiduciary Funds Financial Statements

The supplementary information combining fiduciary funds financial statements includes the combining statements of fiduciary net position and the combining statements of changes in fiduciary net position which provides financial information on each fiduciary fund in which the MTA is functioning as a trustee for another party. The MTA's fiduciary funds are categorized as Pension and Other Employee Benefit Trust Funds.

## Supplementary Information

The supplementary information provides a series of reconciliations between the MTA Group's financial plan and the consolidated statements of revenues, expenses and changes in net position.

## CONDENSED CONSOLIDATED FINANCIAL INFORMATION AND CONDENSED CONSOLIDATED FINANCIAL INFORMATION

The following sections discuss the significant changes in the MTA Group's financial position as of and for the years ended December 31, 2021 and 2020. An analysis of major economic factors and industry trends that have contributed to these changes is provided. It should be noted that for purposes of the MD&A, the information contained within the summaries of the consolidated financial statements and the various exhibits presented were derived from the MTA Group's consolidated financial statements.

## Total Assets and Deferred Outflows of Resources, Distinguishing Between Capital Assets, Other Assets and Deferred Outflows of Resources

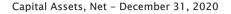
Capital assets include, but are not limited to: bridges, structures, tunnels, construction of buildings and the acquisition of buses, equipment, passenger cars, and locomotives.

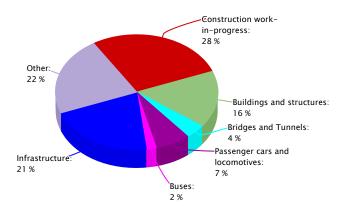
Other assets include, but are not limited to: cash, restricted and unrestricted investments, State and regional mass transit taxes receivables, and receivables from New York State.

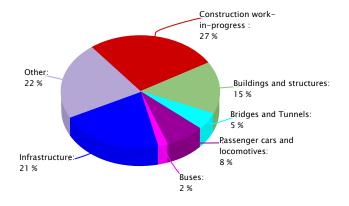
Deferred outflows of resources reflect: changes in fair market values of hedging derivative instruments that are determined to be effective, unamortized loss on refunding, deferred outflows from pension activities, and deferred outflows from OPEB activities.

		De	ecember 31,	Increase / (Decrease)				
(In millions)	 2021		2020	2019		2021 - 2020		2020 - 2019
Capital assets — net (see Note 6)	\$ 83,759	\$	80,895	\$ 77,502	\$	2,864	\$	3,393
Other assets	19,998		12,899	8,857		7,099		4,042
Total Assets	103,757		93,794	86,359		9,963		7,435
Deferred outflows of resources	7,863		6,201	5,300		1,662		901
Total assets and deferred outflows				_		_		
of resources	\$ 111,620	\$	99,995	\$ 91,659	\$	11,625	\$	8,336

Capital Assets, Net - December 31, 2021









## Significant Changes in Assets and Deferred Outflows of Resources Include:

## December 31, 2021 versus December 31, 2020

- Net capital assets increased at December 31, 2021 by \$2,864 or 3.5%. There was an increase in construction in progress of \$1,602, an increase in other capital assets of \$1,313, an increase in buildings and structures of \$1,225, an increase infrastructure of \$1,155, an increase in bridges and tunnels of \$195, an increase in buses of \$181, an increase in passenger cars and locomotives of \$127, and an increase in land of \$1. This was offset by a net increase in accumulated depreciation of \$2,935. See Note 6 to the MTA's Consolidated Financial Statements for further information. Some of the more significant projects contributing to the net increase included:
  - Continued progress on the East Side Access, Second Avenue Subway and Number 7 Extension Project.
  - Infrastructure work including:
    - Repairs and improvements of all MTA Bridge and Tunnels' facilities.
    - Improvements to MTA Long Island Railroad's road-assets, replacement of signal power lines, various right-of-way enhancements and upgrades of radio communications.
    - Continued improvements to MTA Metro-North Railroad stations, tracks and structures, power rehabilitation of substations, and security.
    - Subway and bus real-time customer information and communications systems.
    - Continued structural rehabilitation and repairs of the ventilation system at various facilities.
  - Continued improvements made to the East River Tunnel Fire and Life Safety project for 1st Avenue, Long Island City and construction of three Montauk bridges.
  - Continued passenger station rehabilitations for Penn Station and East Side Access Passenger station.
  - Ongoing work by MTA New York City Transit to make stations fully accessible and structurally reconfigured in accordance with the Americans with Disability Act ("ADA") standards.
- Other assets increased by \$7,099, or 55.%. The major items contributing to this change include:
  - An increase in investments of \$3,432 mainly due to proceeds received from the \$4,000 issuance of Grant Anticipation Notes in December 2021.
  - An increase in current receivable of \$3,787 primarily due to an increase in receivable from the federal government for the Coronavirus Response and Relief Supplemental Appropriations Act of 2021 ("CRRSAA") of \$3,523, an increase in State and regional mass transit taxes of \$21, an increase in subsidies from New York City for MTA New York City Transit and MTA Bus of \$102, an increase in Mortgage Recording Tax of \$12, and a decrease in State and local operating assistance of \$1. There was also a net increase in various current receivables of \$130.
  - An increase in various other current assets of \$41, primarily due to an increase in derivative fuel hedge assets of \$24.
  - An increase in non-current receivable of \$84
  - A decrease in various other noncurrent assets of \$1.
  - A decrease in cash of \$244 from net cash flow activities.
- Deferred outflows of resources increased by \$1,662, or 26.8%. This was due to an increase of \$2,216 related to OPEB, primarily due to change in assumptions offset by a decrease in deferred outflows related to pensions of \$347 based upon the most recent actuarial valuation report in accordance with GASB Statements No. 68, Accounting and Financial Reporting for Pensions, and GASB No. 71, Pension Transition for Contributions Made Subsequent to the Measurement Date. In addition, there was a decrease in the fair value of derivative instruments of \$110 and a decrease in deferred outflows for unamortized losses on refundings of \$97.

## December 31, 2020 versus December 31, 2019

- Net capital assets increased at December 31, 2020 by \$3,393 or 4.4%. This was due to an increase in other capital assets of \$1,778, an increase in construction in progress of \$1,617, an increase in buildings and structures of \$1,300, an increase in infrastructure of \$1,121, an increase in passenger cars and locomotives of \$332, an increase in bridges and tunnels of \$166, an increase in land of \$25, and an increase in buses of \$11. This was offset by a net increase in accumulated depreciation of \$2,957. See Note 6 to the MTA's Consolidated Financial Statements for further information. Some of the more significant projects contributing to the net increase included:
  - Continued progress on the East Side Access, Second Avenue Subway and Number 7 Extension Project.



- Infrastructure work including:
  - o Repairs and improvements of all MTA Bridge and Tunnels' facilities.
  - Improvements to MTA Long Island Railroad's road-assets, replacement of signal power lines, various right-of-way enhancements and upgrades of radio communications.
  - Continued improvements to MTA Metro-North Railroad stations, tracks and structures, power rehabilitation of substations, and security.
  - Subway and bus real-time customer information and communications systems.
  - Continued structural rehabilitation and repairs of the ventilation system at various facilities.
- Continued improvements made to the East River Tunnel Fire and Life Safety project for 1st Avenue, Long Island City and construction of three Montauk bridges.
- Continued passenger station rehabilitations for Penn Station and East Side Access Passenger station.
- Ongoing work by MTA New York City Transit to make stations fully accessible and structurally reconfigured in accordance with the Americans with Disability Act ("ADA") standards.
- Other assets increased by \$4,042 or 45.6%. The major items contributing to this change include:
  - An increase in investments of \$3,699 mainly due to funds from the issuance of MTA Payroll Mobility Tax Bond Anticipation Notes, Series 2020A, in December 2020.
  - A decrease in current and non-current receivables of \$116 primarily due to a decrease in subsidies from New York City for MTA New York City Transit and MTA Bus of \$86, a decrease in State and local operating assistance of \$34, an increase in Federal and State grants for capital projects of \$7, an increase in State and regional mass transit taxes of \$4. There was also a net decrease in various current and non-current receivables of \$7.
  - A net decrease in various other current and noncurrent assets of \$13, primarily due to a decrease in prepaid expenses of \$15.
  - An increase in cash of \$472 from net cash flow activities.
- Deferred outflows of resources increased by \$901 or 17.0%. This increase in deferred outflows is primarily related to higher deferred outflows related to pensions of \$710 due to changes in the actuarially determined calculations for the pension plans and an increase in deferred outflows related to OPEB activities of \$280 due to changes in actuarial calculations for OPEB. There was also an increase in the fair value of derivative instruments of \$75 and a decrease in deferred outflows for unamortized losses on refundings of \$164.

## Total Liabilities and Deferred Inflows of Resources, Distinguishing Between Current Liabilities, Non-Current Liabilities and Deferred Inflows of Resources

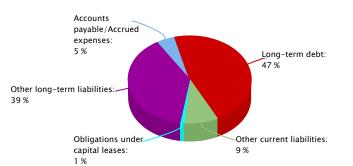
Current liabilities include: accounts payable, accrued expenses, current portions of long-term debt, capital lease obligations, pollution remediation liabilities, unredeemed fares and tolls, and other current liabilities.

Non-current liabilities include: long-term debt, capital lease obligations, claims for injuries to persons, post-employment benefits and other non-current liabilities.

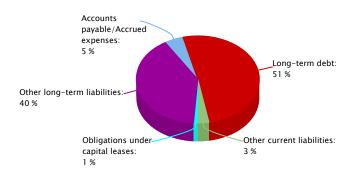
Deferred inflows of resources reflect unamortized gains on refunding, pension related deferred inflows, and deferred inflows from OPEB activities.

	December 31,							Increase/(Decrease)				
(In millions)		2021		2020		2019		2021 - 2020		2020 - 2019		
Current liabilities	\$	13,559	\$	7,184	\$	7,494	\$	6,375	\$	(310)		
Non-current liabilities		84,160		85,263		77,085		(1,103)		8,178		
Total liabilities		97,719		92,447		84,579		5,272		7,868		
Deferred inflows of resources		4,758		2,565		2,629		2,193		(64)		
Total liabilities and deferred inflows of resources	\$	102,477	\$	95,012	\$	87,208	\$	7,465	\$	7,804		





Total Liabilities - December 31, 2020



## Significant Changes in Liabilities and Deferred Inflows of Resources Include:

#### December 31, 2021 versus December 31, 2020

- Current liabilities increased by \$6,375, or 88.7%. The net increase in current liabilities was primarily due to an increase in the current portion of long-term debt of \$6,526, due mainly to the issuance of Grant Anticipation Notes of \$4,000 in December 2021, which will mature on November 15, 2022, an increase in accrued expenses of \$53, an increase of \$65 in employee related accruals, an increase in interest payable of \$50, an increase in the current portion obligations under capital leases (see Note 9) of \$10, and a net increase in various other current liabilities of \$30. This was offset by a decrease in accounts payable due to vendors of \$113, a decrease in unearned premiums of \$116, and a decrease in capital accruals of \$130.
- Non-current liabilities decreased by \$1,103, or 1.3%. This decrease was mainly due to:
  - A decrease in the non-current portion of long-term debt of \$1,039 primarily due to the movement of early retirement of bond anticipation notes to current liability, as required by GASB Statement No. 62 (see Note 7).
  - A decrease in pension liability of \$3,460, resulting from actuarial calculations as required by GASB Statement No. 68 (see Note 4).
  - A decrease in contract retainage payable of \$63.
  - A decrease in other long-term liabilities of \$73, due to higher employer social security taxes payments in 2021 that were accrued in 2020 under the payroll tax deferral relief offered by the Coronavirus Aid, Relief, and Economic Security (CARES) Act.
  - An increase in estimated liability arising from injuries to persons (see Note 10) of \$373 due to revised actuarial calculations of the workers' compensation reserve.
  - A decrease in derivative liability (see Note 8) of \$110.
  - An increase in net OPEB liability of \$3,292 due to changes in actuarial calculations for OPEB as required by GASB Statement No. 75 (see Note 5).
  - A net decrease in other various non-current liabilities of \$23.
- Deferred inflows of resources increased by \$2,193, or 85.5%, primarily due to an increase in deferred inflows related to pensions of \$2,198 as a result of changes in the actuarially determined calculations for the pension plans as required by GASB Statement No. 68, an increase in deferred inflows related to OPEB of \$2 due to changes in actuarial calculations for OPEB as required by GASB Statement No. 75, and a decrease in the gain on refunding of debt of \$7.

## **December 31, 2020** versus December 31, 2019

• Current liabilities decreased by \$310 or 4.1%. The net decrease in current liabilities was primarily due to a decrease in the current portion of long-term debt of \$667 due mainly to the classification of bond anticipated notes retired by the proceeds of new long term debt issues as required by GASB Statement No. 62, a decrease in capital accruals of \$243, a decrease in the current portion obligations under capital leases (see Note 9) of \$10, a decrease in interest payable of \$20, an increase of \$297 in employee related accruals, an increase in unearned premiums of \$264, an increase in accounts



payable due to vendors of \$48, an increase of \$45 in accrued expenses, and in addition, there was a net decrease in various other current liabilities of \$24.

- Non-current liabilities increased by \$8,178 or 10.6%. This increase was mainly due to:
  - An increase in the non-current portion of long-term debt of \$5,535 primarily due to the classification of bond anticipated notes and bonds retired by the proceeds of new long term debt issues as required by GASB Statement No. 62 (see Note 7) and new bonds issued in 2020.
  - An increase in pension liability of \$775, resulting from actuarial calculations as required by GASB Statement No. 68 (see Note 4).
  - An increase in other long-term liabilities of \$136, primarily due to the accruals of employer social security taxes. Payments are due in 2021 under the payroll tax deferral relief offered by the CARES Act.
  - An increase in estimated liability arising from injuries to persons (see Note 10) of \$98 due to revised actuarial calculations of the workers' compensation reserve.
  - An increase in derivative liability (see Note 8) of \$72.
  - An increase in net OPEB liability of \$1,535 due to changes in actuarial calculations for OPEB as required by GASB Statement No. 75 (see Note 5).
  - A net increase in other various non-current liabilities of \$27.
- Deferred inflows of resources decreased by \$64 or 2.4%, primarily due to a decrease in deferred inflows related to pensions of \$138 as a result of changes in the actuarially determined calculations for the pension plans as required by GASB Statement No. 68, an increase in deferred inflows related to OPEB of \$56 due to changes in actuarial calculations for OPEB as required by GASB Statement No. 75, and an increase in the gain on refunding of debt of \$18.

## Total Net Position, Distinguishing Between Net Investment in Capital Assets, Restricted Amounts, and Unrestricted Amounts

(In millions)		De	ecember 31,			Increase/(	Decre	ase)
	2021		2020	2019	20	21 - 2020	202	0 - 2019
Net investment in capital assets	\$ 29,899	\$	32,884	\$ 31,147	\$	(2,985)	\$	1,737
Restricted for debt service	1,039		480	554		559		(74)
Restricted for claims	225		287	219		(62)		68
Restricted for other purposes	1,346		1,184	1,207		162		(23)
Unrestricted	 (23,366)		(29,852)	 (28,676)		6,486		(1,176)
Total Net Position	\$ 9,143	\$	4,983	\$ 4,451	\$	4,160	\$	532

## Significant Changes in Net Position Include:

## **December 31, 2021 versus December 31, 2020**

At December 31, 2021, total net position increased by \$4,160, or 83.5%, when compared with December 31, 2020. This change is a result of net non-operating revenues of \$11,426 and appropriations, grants and other receipts externally restricted for capital projects of \$3,789, which was offset by operating losses of \$11,055.

The net investment in capital assets decreased by \$2,985, or 9.1%. Funds restricted for debt service, claims and other purposes increased by \$659, or 33.8% in the aggregate, mainly due to a \$559 increase in funds restricted for debt service and an increase in funds restricted for other purposes of \$162, which was offset by a decrease in funds restricted for claims of \$62. Unrestricted net position increased by \$6,486, or 21.7%.

## **December 31, 2020** versus December 31, 2019

At December 31, 2020, total net position increased by \$532 or 12.0%, when compared with December 31, 2019. This change is a result of net non-operating revenues of \$9,240 and appropriations, grants and other receipts externally restricted for capital projects of \$3,582, and offset by operating losses of \$12,290.

The net investment in capital assets increased by \$1,737 or 5.6%. Funds restricted for debt service, claims and other purposes decreased by \$29 or 1.5% in the aggregate, mainly due to a \$74 decrease in funds restricted for debt service and a decrease in funds restricted for other purposes of \$23, which was offset by an increase in funds restricted for claims of \$68. Unrestricted net position decreased by \$1,176 or 4.1%.



## Condensed Consolidated Statement of Revenues, Expenses and Changes in Net Position

(In millions)	December 31, 2021	December 31, 2020	December 31, 2019	Increase/( 2021 - 2020	Decrease) 2020 - 2019
Operating revenues					
Passenger and tolls	\$ 5,218	\$ 4,265	\$ 8,422	\$ 953	\$ (4,157)
Other	557	463	621	94	(158)
Total operating revenues	5,775	4,728	9,043	1,047	(4,315)
Non-operating revenues					
Grants, appropriations and taxes	7,761	6,014	6,767	1,747	(753)
Other	5,491	4,961	980	530	3,981
Total non-operating revenues	13,252	10,975	7,747	2,277	3,228
Total revenues	19,027	15,703	16,790	3,324	(1,087)
Operating expenses					
Salaries and wages	6,204	6,246	6,309	(42)	(63)
Retirement and other employee benefits	2,264	3,054	3,125	(790)	(71)
Postemployment benefits other than pensions	1,865	1,677	1,613	188	64
Depreciation and amortization	3,158	3,011	2,870	147	141
Other expenses	3,339	3,030	3,626	309	(596)
Total operating expenses	16,830	17,018	17,543	(188)	(525)
Non-operating expenses					
Interest on long-term debt	1,813	1,722	1,556	91	166
Other net non-operating expenses	13	13	10	<u> </u>	3
Total non-operating expenses	1,826	1,735	1,566	91	169
Total expenses	18,656	18,753	19,109	(97)	(356)
Loss before appropriations, grants and other receipts					
externally restricted for capital projects	371	(3,050)	(2,319)	3,421	(731)
Appropriations, grants and other receipts					
externally restricted for capital projects	3,789	3,582	2,817	207	765
Change in net position	4,160	532	498	3,628	34
Net position, beginning of year	4,983	4,451	3,953	532	498
Restatement of beginning net position -					
Net position, end of year	\$ 9,143	\$ 4,983	<u>\$ 4,451</u>	\$ 4,160	\$ 532

## Revenues and Expenses, by Major Source:

## Years ended December 31, 2021 versus 2020

Total operating revenues increased by \$1,047, or 22.1%. This was attributable to the increase in fare and toll revenues of \$423 and \$530, respectively, mainly due to the lifting of major travel restrictions of the Stay at Home Executive Order issued by New York State governor in March 2020 and a toll increase effective April 11, 2021. Other operating revenues increased by \$94 when compared with the same period in 2020 due to higher advertising revenues and higher paratransit reimbursement subsidy.

- Total non-operating revenues increased by \$2,277, or 20.7%.
  - The favorable variance of \$1,747 in grants, appropriations, and taxes was primarily due to increases in tax-supported subsidies from New York State, New York City and local service areas. There was an increase in Metropolitan Mass Transportation Operating of \$683, increase in Payroll Mobility Tax of \$247, an increase in Internet Sales Tax of \$85, an increase in Mansion Tax of \$214, an increase in Mortgage Recording Tax subsidies of \$195 due to greater mortgage transactions in the MTA service area, an increase in Urban Tax subsidies of \$160, an increase in MTA Aid Trust of \$16, an increase in Operating Assistance of \$78, an increase in Mass Transportation Trust Fund of \$21, and an increase in New York City Assistance Fund \$53. The increases were offset by a decrease in Build America Bond subsidy of \$5.
  - Other non-operating revenues increased by \$94 primarily due to an increase in funds from the Federal government's Coronavirus Response and Relief Supplemental Appropriations Act ("CRRSAA") over CARES funding received in 2020 of \$104, an increase in subsidies from the Connecticut Department of Transportation for the MTA Metro-North Railroad of \$36, an increase in other net non-operating revenues of \$276, an increase in Station maintenance of \$3, and an increase in subsidies from New York City of \$105 for MTA Bus and MTA Staten Island Railway for the deficit funding requirement for MTA Bus.



- Labor costs decreased by \$644, or 5.9%. The major changes within this category are:
  - Retirement and employee benefits decreased by \$790 primarily due to changes in the actuarial valuation for pensions under GASB Statement No. 68.
  - Salaries and wages decreased by \$42 mainly due to a decrease in headcount as a result of retirements and the sustained agency hiring freeze.
  - Postemployment benefits other than pensions increased by \$188 due to changes in the actuarial valuation for OPEB.
- Non-labor operating costs increased by \$456, or 7.5%. The variance was primarily due to:
  - An increase in claims arising from injuries to persons of \$189 based on the most recent actuarial valuations.
  - An increase in depreciation of \$147 due to more assets placed in service in the current year.
  - An increase in paratransit service contracts of \$20 primarily due to increased ridership.
  - An increase in professional service contracts of \$65 primarily due to changes in consulting service requirements.
  - An increase in electric power of \$45 and fuel of \$60 due to higher rates and consumption.
  - An increase in insurance of \$31 due to changes in property and liability reserve requirements.
  - A decrease in material and supplies by \$57, mainly due to revised maintenance and repairs requirements for transit and commuter systems.
  - A decrease in pollution remediation projects of \$86 primarily due to identification of additional areas of exposure requiring environmental remediation in 2020.
  - A decrease in maintenance and other operating contracts by \$4.
  - A net increase in other various expenses of \$46 due to changes in operational requirements.
- Total net non-operating expenses increased by \$91, or 5.2% primarily due to an increase in interest on long-term debt.
- Appropriations, grants and other receipts externally restricted for capital projects increased by \$207, or 5.8%, mainly due to timing in the availability of Federal and State grants for capital projects.

## Years ended December 31, 2020 versus 2019

- Total operating revenues decreased by \$4,315 or 47.7%. The decrease was mainly due to the Stay At Home Executive Order issued by New York State governor in March in response to the COVID-19 pandemic. The decrease in fare revenue and toll revenue of \$3,726 and \$431, respectively, reflects the ongoing impact of the COVID-19 pandemic resulting in a sharp drop in utilization of services. Other operating revenues decreased by \$158 when compared with the same period in 2019 due to lower advertising revenues and lower paratransit reimbursement subsidy.
- Total non-operating revenues increased by \$3,228 or 41.7%.
  - The unfavorable variance of \$753 in grants, appropriations, and taxes was primarily due to decreases in tax-supported subsidies from New York State, New York City and local service areas. There was a decrease in Payroll Mobility Tax of \$59, a decrease in Metropolitan Mass Transportation Operating of \$260, a decrease in Operating Assistance of \$97, a decrease in Mass Transportation Trust Fund of \$87, a decrease in Mortgage Recording Tax subsidies of \$3, a decrease in New York Assistance Fund of \$175, a decrease in Urban Tax subsidies of \$288, and a decrease in MTA Aid Trust of \$65. The decreases were offset by an increase in Internet Sales Tax of \$175, and an increase in Mansion Tax of \$106.
  - Other non-operating revenues increased by \$3,981 primarily due to an increase in funds from the Coronavirus Aid, Relief, and Economic Security (CARES) Act of \$4,010, an increase in subsidies from the Connecticut Department of Transportation for the MTA Metro-North Railroad of \$120, an increase in other net non-operating revenues of \$34, and an increase in Station maintenance of \$3. The increases were offset by a decrease in subsidies from New York City of \$186 for MTA Bus and MTA Staten Island Railway.
- Labor costs decreased by \$70 or 0.6%. The major changes within this category are:
  - Retirement and employee benefits decreased by \$71 primarily due to changes in the actuarial valuation for pensions under GASB Statement No. 68.
  - Salaries, wages and overtime decreased by \$63 primarily due to fewer trains operating due to COVID-19.



- Postemployment benefits other than pensions increased by \$64 due to changes in the actuarial valuation for OPEB under GASB Statement No. 75.
- Non-labor operating costs decreased by \$455 or 7.0%. The variance was primarily due to:
  - A decrease in claims arising from injuries to persons of \$257 based on the most recent actuarial valuations.
  - A decrease in paratransit service contracts of \$151 primarily due to less use of paratransit taxi expenses.
  - A decrease in decrease in material and supplies by \$104, mainly due to revised maintenance and repairs requirements for transit and commuter systems.
  - A decrease in electric power of \$59 and fuel of \$71 due to changes in rates and consumption.
  - An increase in pollution remediation projects of \$81 primarily due to higher areas of exposure requiring corrective work requirements.
  - An increase in maintenance and other operating contracts by \$44.
  - An increase in depreciation of \$141 due to more assets placed in service in the current year.
  - A decrease in insurance of \$7 due to changes in property and liability reserve requirements.
  - A net decrease in other various expenses of \$72 due to changes in operational requirements.
- Total net non-operating expenses increased by \$169 or 10.8% primarily due to an increase in interest on long-term debt of \$166 and an increase in other net non-operating expenses of \$3.
- Appropriations, grants and other receipts externally restricted for capital projects increased by \$765 or 43.3%, mainly
  due to timing in the availability of Federal and State grants for capital projects.

## OVERALL FINANCIAL POSITION AND RESULTS OF OPERATIONS AND IMPORTANT ECONOMIC CONDITIONS

#### **Economic Conditions**

Metropolitan New York is the most transit-intensive region in the United States, and a financially sound and reliable transportation system is critical to the region's economic well-being. The MTA consists of urban subway and bus systems, suburban rail systems, and bridge and tunnel facilities, all of which are affected by a myriad of economic forces. To achieve maximum efficiency and success in its operations, the MTA must identify economic trends and continually implement strategies to adapt to changing economic conditions.

Preliminary MTA system-wide utilization through the fourth quarter of 2021 has rebounded past the depths experienced in 2020, with ridership up by 257.3 million trips (27.0%) over the 2020 ridership level. The first quarter of 2021 was down 296.4 million trips (57.4%) compared with the first quarter of 2020, since COVID-related ridership loss did not begin until the closing weeks of the first quarter of 2020. The second quarter of 2021 reflected gradual increases in ridership from the depths of the COVID pandemic and was up 231.1 million trips (410.1%) compared with the second quarter of 2020. The third quarter of 2021 was also favorable, up 177.3 million trips (117.5%) compared with the third quarter of 2020, and the fourth quarter was up 145.3 million trips (63.2%) compared with the fourth quarter of 2021. The effective shut-down in mid-March 2020 of the metropolitan area in response to the COVID-19 pandemic resulted in a severe decline in the utilization of MTA services that began to slowly improve as effective vaccinations became available and the region moved through State-mandated re-opening phases. During 2021 with vaccinations available, social distancing mandates were eased and the region began moving into a late-pandemic phase with businesses bringing back employees, restaurants and bars increasing seating capacity and cultural institutions reopened. Increases in infections and hospitalizations brought on by COVID-19 variants changed conditions during the latter part of the year and slowed the economic recovery. When compared with 2020, MTA New York City Transit subway ridership increased by 120.4 million trips (18.8%); the fourth quarter change from 2020 was an increase of 109.1 million trips (80.7%). MTA New York City Transit bus increased by 103.0 million trips (49.3%) in 2021, and by 18.7 million trips (27.4%) in the fourth quarter. MTA Long Island Rail Road ridership increased by 4.7 million trips (15.6%) in 2021, while increasing by 5.7 million trips (95.6%) during the fourth quarter, MTA Metro-North Railroad increased by 3.5 million trips (13.0%) in 2021, while increasing by 5.6 million trips (114.1%) during the fourth quarter; MTA Bus increased by 25.5 million trips (55.5%) in 2021, and by 5.9 million trips (39.5%) during the fourth quarter;, and MTA Staten Island Railway increased by 42 thousand trips (3.0%) in 2021, while increasing by 261 thousand trips (103.0%) during the fourth quarter. A note on bus ridership figures: From March 20, 2020 through the end of August 2020, entry onto most buses was only permitted through the rear bus door and fares were not collected, and in these instances, ridership was not counted. Vehicle traffic at MTA Bridges and Tunnels facilities in 2021 increased by 54.1 million crossings (21.4%) compared with crossings during 2020. In the fourth quarter, crossings were up 13.0 million (19.2%) compared with the fourth quarter of 2020. The 2019 New York State Budget approved congestion pricing in Manhattan south of 60th Street, which will likely impact ridership and vehicle crossings once implemented. While originally scheduled to go into effect in 2021, the MTA only received approval on March 30, 2021, after significant delays, by the Federal



Highway Administration to proceed with the Environmental Assessment which will allow for the final design and construction of the tolling infrastructure to proceed.

Seasonally adjusted non-agricultural employment in New York City for the fourth quarter was higher in 2021 than in 2020 by 199.1 thousand jobs (4.9%). On a quarter-to-quarter basis, New York City employment gained 70.5 thousand jobs (1.7%), the sixth consecutive quarterly increase. These increases were preceded by the steep decline of 888.8 thousand jobs (19.0%) during the second quarter of 2020.

National economic growth, as measured by Real Gross Domestic Product ("RGDP"), increased at an annualized rate of 6.9% in the fourth quarter of 2021, according to the most recent advance estimate released by the Bureau of Economic Analysis; in the third quarter of 2021, the revised RGDP increased 2.3 percent. The increase in fourth quarter real GDP reflected increases in private inventory investment, exports, personal consumption expenditures, and nonresidential fixed investment that were partly offset by decreases in both federal and state and local government spending. Imports, which are a subtraction in the calculation of GDP, increased. The increase in private inventory investment was led by retail and wholesale trade industries, with inventory investment by motor vehicle dealers the leading contributor for retail trade. The increase in exports reflected increases in both goods and services. The increase in exports of goods was widespread, led by consumer goods, industrial supplies and materials, and foods, feeds, and beverages, while the increase in exports of services was led by travel. The increase in personal consumption expenditures primarily reflected an increase in services, led by health care, recreation, and transportation. The increase in nonresidential fixed investment primarily reflected an increase in intellectual property products that was partly offset by a decrease in structures. The decrease in federal government spending primarily reflected a decrease in defense spending on intermediate goods and services. The decrease in state and local government spending reflected decreases in consumption expenditures (led by compensation of state and local government employees, notably education) and in gross investment (led by new educational structures). The increase in imports primarily reflected an increase in goods (led by non-food and nonautomotive consumer goods, as well as capital goods). The acceleration in real GDP in the fourth quarter primarily reflected an upturn in exports, accelerations in private inventory investment and personal consumption expenditures, and smaller decreases in residential fixed investment and federal government spending that were partly offset by a downturn in state and local government spending. Additionally, imports accelerated.

The New York City metropolitan area's price inflation, as measured by the Consumer Price Index for All Urban Consumers ("CPI-U"), was lower than the national average in the fourth quarter of 2021, with the metropolitan area index increasing 4.6% while the national index increased 6.7% when compared with the fourth quarter of 2020. Regional prices for energy products increased 25.5%, while national prices of energy products rose 30.8%. In the metropolitan area, the CPI-U exclusive of energy products increased by 3.5%, while nationally, inflation exclusive of energy products increased 5.1%. The New York Harbor spot price for conventional gasoline increased substantially more, by 89.1%, from an average price of \$1.25 per gallon to an average price of \$2.36 per gallon between the fourth quarters of 2020 and 2021.

In its announcement on May 4, 2022, the Federal Open Market Committee ("FOMC") raised its target for the Federal Funds rate to the range of 0.75% to 1.00%. Previously, on March 16, 2022, the FOMC raised its target for the Federal Funds rate to the range of 0.25% to 0.50%. Prior to the March 16 increase, the Federal Funds rate target range was 0.00% to 0.25%, and was last changed on March 15, 2020, when it was reduced from a range of 1.50% to 1.75%. The FOMC cites the invasion of Ukraine by Russia as causing uncertainty for the US economy, creating additional upward pressure on inflation which will weigh on economic activity. Additionally, COVID-related lockdowns in China are likely to exacerbate supply chain disruptions. While economic activity edged down in the first quarter of 2022, household spending and fixed business investment remained strong. Job gains have been robust, and the national unemployment rate has declined substantially. Inflation remains elevated, reflecting supply and demand imbalances related to the pandemic, higher energy prices and broader price pressures. The FOMC seeks to achieve maximum employment and a 2 percent inflation rate over the longer run, and with appropriate firming of its monetary policy stance, the FOMC expects to achieve these goals. The FOMC also plans to begin, on June 1, reducing its holdings of Treasury securities and agency debt and agency mortgage-backed securities. The FOMC will continue to assess the economic outlook and is prepared to adjust the stance of monetary policy as appropriate if risks emerge that could impede the attainment of the FOMC's employment and inflation goals.

On March 27, 2020, the Coronavirus Aid, Relief, and Economic Security ("CARES") Act was signed into law and provided \$4.0 billion in funding to the MTA, which assisted in covering operating losses through late July. The Coronavirus Response and Relief Supplemental Appropriations Act of 2021 ("CRRSAA") became law on December 27, 2020; the MTA received \$4.1 billion from CRRSAA between late December 2021 and January 2022. More recently, on March 11, 2021, the American Rescue Plan Act of 2021 ("ARPA") was signed in law, and MTA expects to receive \$6.1 billion in aid from ARPA.

The influence of the Federal Reserve's monetary policy on the mortgage market is a matter of interest to the MTA, since variability of mortgage rates can affect the number of real estate transactions and thereby impact receipts from the Mortgage Recording Taxes ("MRT") and the Urban Taxes, two important sources of MTA revenue. While real estate transaction activity initially was severely impacted by social distancing and the economic disruption caused by the COVID-19 pandemic, demand for suburban residential real estate and historically low mortgage rates for refinancing resulted in strong MRT revenue. Mortgage Recording Tax collections in the fourth quarter of 2021 were higher than the fourth quarter of 2020 by \$36.7 million (29.2%). Average monthly receipts in the fourth quarter of 2021 were \$9.6 million (15.1%) lower than the monthly average for 2006, just



prior to the steep decline in Mortgage Recording Tax revenues during the Great Recession. MTA's Urban Tax receipts during the fourth quarter of 2021—which are based on commercial real estate transactions and mortgage recording activity within New York City, and can vary significantly from quarter to quarter based on the timing of exceptionally high-priced transactions—were \$45.1 million (56.1%) higher than receipts during the fourth quarter of 2020. Average monthly receipts in the fourth quarter of 2021 were \$37.9 million (51.4%) lower than the monthly average for 2007, just prior to the steep decline in Urban Tax revenues during the Great Recession.

#### Results of Operations

MTA Bridges and Tunnels - For the twelve months ended December 31, 2021, operating revenue increased by \$533, or 32.1%, as compared to the twelve months ended December 31, 2020.

The current year included a toll increase effective April 11, 2021. Total crossings in 2021 were 307.3 million versus 253.2 million crossings in 2020, an increase of 21.4%. Toll revenue for the year 2021 totaled \$2,170, which was \$530, or 32.3% higher than 2020.

MTA New York City Transit - Total revenue from fares was \$2,347 in 2021, an increase of \$336, or 16.7%, compared to 2020. Total operating expenses, including depreciation, other post-employment benefits and environmental remediation expenses, were \$10,504 in 2021, a decrease of \$582 or 5.2%.

MTA Long Island Rail Road – Total operating revenue for the year ended December 31, 2021 was \$325, which was higher by \$19 or 6.2% compared to the year ended December 31, 2020. For the same comparative period, operating expenses were higher by \$66 or 3.3%, totaling \$2,058 for the year ended December 31, 2021.

MTA Metro-North Railroad – For the year ended December 31, 2021, operating revenues totaled \$283, an increase of \$9, or 3.3%, compared to 2020. During the same period, operating expenses increased by \$139, or 8.7%, to \$1,739. Fare revenue for 2021 increased by 8.2% to \$263 compared to 2020. Passenger fares accounted for 92.9% and 88.8% of operating revenues in 2020 and 2020, respectively. The remaining revenue represents collection of rental income from stores in and around passenger stations and revenue generated from advertising.

The MTA receives the equivalent of four quarters of Metropolitan Mass Transportation Operating Assistance ("MMTOA") receipts each year, with the state advancing the first quarter of each succeeding calendar year's receipts in the fourth quarter of the current year. This results in little or no Metropolitan Mass Transportation Operating Assistance receipts being received during the first quarter of each calendar year. The MTA has made other provisions to provide for cash liquidity during this period. There has been no change in the timing of the State's payment of, or MTA's receipt of, Dedicated Mass Transportation Trust Fund ("MTTF") receipts, which MTA anticipates will be sufficient to make monthly principal and interest deposits into the Debt Service Fund for the Dedicated Tax Fund Bonds. The total MRT for the year ended December 31, 2021 was \$659.7 compared to \$464.5 at December 31, 2020.

## Capital Programs

At December 31, 2021, \$7,856 had been committed and \$1,472 had been expended for the 2020-2024 MTA Bridges and Tunnels Capital Program, \$29,255 had been committed and \$20,527 had been expended for the combined 2015-2019 MTA Capital Programs and the 2015-2019 MTA Bridges and Tunnels Capital Program, and \$28,921 had been committed and \$26,947 had been expended for the combined 2010-2014 MTA Capital Programs and the 2010-2014 MTA Bridges and Tunnels Capital Program, and \$24,125 had been committed and \$23,920 had been expended for the combined 2005-2009 MTA Capital Programs and the 2005-2009 MTA Bridges and Tunnels Capital Program.

The MTA Group has ongoing capital programs, which except for MTA Bridges and Tunnels are subject to the approval of the Metropolitan Transportation Authority Capital Program Review Board ("CPRB"), and are designed to improve public transportation in the New York Metropolitan area.

2020-2024 Capital Program – Capital programs totaling \$54,799 covering the years 2020-2024 for: (1) the commuter railroad operations of the MTA conducted by MTA Long Island Rail Road and MTA Metro-North Railroad (the "2020–2024 Commuter Capital Program"), (2) the transit system operated by MTA New York City Transit and its subsidiary, MaBSTOA, the MTA Bus Company, and the rail system operated by MTA Staten Island Railway (the "2020–2024 Transit Capital Program") were originally approved by the MTA Board on September 25, 2019. The capital programs were subsequently submitted to the Capital Program Review Board ("CPRB") on October 1, 2019 and approved on January 1, 2020. The capital program for the toll bridges and tunnels operated by MTA Bridges and Tunnels (the "2020–2024 MTA Bridges and Tunnels Capital Program") was approved by the MTA Board on September 25, 2019 and was not subject to CPRB approval.

The combined funding sources for the 2020–2024 MTA Capital Programs and the 2020-2024 MTA Bridges and Tunnels Capital Program, include \$15,000 in Central Business District tolling sources, \$10,000 in new revenue sources, \$9,792 in MTA bonds and PAYGO, \$3,327 in MTA Bridges and Tunnels bonds, \$10,696 in Federal funds, \$3,000 in State of New York funding, \$3,000 in City of New York funding, and \$520 in other contributions.



2015-2019 Capital Program — Capital programs covering the years 2015-2019 for: (1) the commuter railroad operations of the MTA conducted by MTA Long Island Rail Road and MTA Metro-North Railroad (the "2015–2019 Commuter Capital Program"), (2) the transit system operated by MTA New York City Transit and its subsidiary, MaBSTOA, the MTA Bus Company, and the rail system operated by MTA Staten Island Railway (the "2015–2019 Transit Capital Program") were originally approved by the MTA Board in September 2014. The capital programs were subsequently submitted to the Capital Program Review Board ("CPRB") in October 2014. This plan was disapproved by the CPRB, without prejudice, in October 2014. The capital program for the toll bridges and tunnels operated by MTA Bridges and Tunnels (the "2015–2019 MTA Bridges and Tunnels Capital Program") was approved by the MTA Board in September 2014 and was not subject to CPRB approval.

On April 20, 2016, the MTA Board approved revised capital programs for the years covering 2015-2019. The revised capital programs provided for \$29,456 in capital expenditures. On May 23, 2016, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems as submitted. The revised 2015-2019 MTA Bridges and Tunnels Capital Program, was approved by the MTA Board on April 20, 2016. On February 23, 2017, the MTA Board approved a revision to the CPRB portion of the capital programs for the years covering 2015-2019, adding \$119 transferred from prior capital programs to support additional investment projects. On March 30, 2017, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems as submitted. On May 24, 2017, the MTA Board approved a full amendment to the 2015-2019 Capital Programs to reflect updated project estimates and rebalanced programs to address budgetary and funding needs of priority projects that include Second Avenue Subway Phase 2, MTA Long Island Rail Road regional mobility, station enhancement work, investments at Penn Station, and new Open Road Tolling at MTA Bridges and Tunnels. On July 31, 2017, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems totaling \$29,517, as submitted. The revised 2015-2019 MTA Bridges and Tunnels Capital Program totaling \$2,940, as approved by the MTA Board in May 2017, was not subject to CPRB approval. On December 13, 2017, the MTA Board approved an amendment adding \$349 to the 2015-2019 Capital Program for the Transit system in support of the NYC Subway Action Plan. On April 25, 2018, the MTA Board approved a full amendment to increase the 2015-2019 Capital Programs to \$33,270 reflecting updated project cost estimates, emerging new needs across the agencies, and reallocation of funds within the East Side Access and Regional Investment programs, among others. On May 31, 2018, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems totaling \$30,334, as submitted. The revised 2015-2019 MTA Bridges and Tunnels Capital Program totaling \$2,936, as approved by the MTA Board in April 2018, was not subject to CPRB approval. On September 25, 2019, the MTA Board approved a full amendment to increase the 2015-2019 Capital Programs to \$33,913 reflecting updated project timing and cost estimates, new needs, and changing priorities. On February 21, 2020, the CPRB deemed approved the revised 2015-2019 Capital Programs for the Transit and Commuter systems totaling \$30,977, as submitted. The revised 2015-2019 MTA Bridges and Tunnels Capital Program totaling \$2,936, as approved by the MTA Board in September 2019, was not subject to CPRB approval.

By December 31, 2021, the revised 2015-2019 Capital Programs provided \$33,913 in capital expenditures, of which \$16,742 relates to ongoing repairs of, and replacements to, the transit system operated by MTA New York City Transit and MaBSTOA and the rail system operated by MTA Staten Island Railway; \$6,096 relates to ongoing repairs of, and replacements to, the commuter system operated by MTA Long Island Rail Road and MTA Metro-North Railroad; \$7,520 relates to the expansion of existing rail networks for both the transit and commuter systems to be managed by MTA Capital Construction; \$243 relates to Planning and Customer Service; \$376 relates to MTA Bus Company initiatives; and \$2,936 in capital expenditures for ongoing repairs of, and replacements to, MTA Bridges and Tunnels facilities.

The combined funding sources for the revised 2015–2019 MTA Capital Programs and the 2015-2019 MTA Bridges and Tunnels Capital Program, include \$8,474 in MTA bonds, \$2,942 in MTA Bridges and Tunnels dedicated funds, \$9,091 in State of New York funding, \$7,421 in Federal funds, \$2,667 in City of New York funding, \$2,156 in pay-as-you-go ("PAYGO") capital, \$943 from asset sale/leases, and \$273 from other sources.

2010-2014 Capital Program — Capital programs covering the years 2010-2014 for: (1) the commuter railroad operations of the MTA conducted by MTA Long Island Rail Road and MTA Metro-North Railroad (the "2010–2014 Commuter Capital Program"), (2) the transit system operated by MTA New York City Transit and its subsidiary, MaBSTOA, the MTA Bus Company, and the rail system operated by MTA Staten Island Railway (the "2010-2014 Transit Capital Program") were originally approved by the MTA Board in September 2009. The capital programs were subsequently submitted to the CPRB in October 2009. This plan was disapproved by the CPRB, without prejudice, in December 2009 allowing the State Legislature to review funding issues in their 2010 session. The capital program for the toll bridges and tunnels operated by MTA Bridges and Tunnels (the "2010–2014 MTA Bridges and Tunnels Capital Program") was approved by the MTA Board in September 2009 and was not subject to CPRB approval. The MTA Board approved the revised plan for the Transit and Commuter systems on April 28, 2010 and CPRB approval of the five-year program of projects was obtained on June 1, 2010. The approved CPRB program fully funded only the first two years (2010 and 2011) of the plan, with a commitment to come back to CPRB with a funding proposal for the last three years for the Transit and Commuter Programs. On December 21, 2011, the MTA Board approved an amendment to the 2010-2014 Capital Program for the Transit, Commuter, and Bridges and Tunnels systems that fund the last three years of the program through a combination of self-help (efficiency improvements and real estate initiatives), participation by our funding partners, and innovative and pragmatic financing arrangements. On March 27, 2012, the CPRB deemed approved the amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted.



On December 19, 2012, the MTA Board approved an amendment to the 2010-2014 Capital Programs for the Transit, Commuter, and Bridges and Tunnels systems to add projects for the repair/restoration of MTA agency assets damaged as a result of Superstorm Sandy, which struck the region on October 29, 2012. On January 22, 2013, the CPRB deemed approved the amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted. On July 22, 2013, the MTA Board approved a further amendment to the 2010-2014 Capital Programs for the Transit, Commuter, and Bridges and Tunnels systems to include specific revisions to planned projects and to include new resilience/mitigation initiatives in response to Superstorm Sandy.

On August 27, 2013, the CPRB deemed approved those amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted. On July 28, 2014, the MTA Board approved an amendment to select elements of the Disaster Recovery (Sandy) and MTA New York City Transit portions of the 2010-2014 Capital Programs, and a change in the funding plan. On September 3, 2014, the CPRB deemed approved the amended 2010-2014 Capital Programs for the Transit and Commuter systems as submitted.

In May 2017, the MTA Board approved an amendment to the 2010-2014 Capital Programs to reflect scope transfers and consolidation between the approved capital programs, and to reflect reductions to the MTA Superstorm Sandy capital projects to match current funding assumptions. This amendment, which provided \$29,237 in capital expenditures for the Transit and Commuter systems, was deemed approved by the CPRB as submitted on July 31, 2017. The amended 2010-2014 MTA Bridges and Tunnels Capital Program, which provided \$2,784 in capital expenditures, was not subject to CPRB approval. On September 25, 2019, the MTA Board approved an amendment to decrease the 2010-2014 Capital Programs to \$31,704 reflecting administrative budget adjustments and updated project cost and timing assumptions. In February 21, 2020, the CPRB deemed approved the revised 2010-2014 Capital Programs for the Transit and Commuter systems totaling \$28,917, as submitted. The revised 2010-2014 MTA Bridges and Tunnels Capital Program totaling \$2,787, as approved by the MTA Board in September 2019, was not subject to CPRB approval.

By December 31, 2021, the 2010-2014 MTA Capital provided \$31,704 in capital expenditures, of which \$11,365 relates to ongoing repairs of, and replacements to, the transit system operated by MTA New York City Transit and MaBSTOA and the rail system operated by MTA Staten Island Railway; \$3,925 relates to ongoing repairs of, and replacements to, the commuter system operated by MTA Long Island Rail Road and MTA Metro-North Railroad; \$5,861 relates to the expansion of existing rail networks for both the transit and commuter systems to be managed by MTA Capital Construction; \$254 relates to a multi-faceted security program including MTA Police Department; \$223 relates to MTA Interagency; \$297 relates to MTA Bus Company initiatives; \$2,022 relates to the ongoing repairs of, and replacements to, MTA Bridges and Tunnels facilities; and \$7,757 relates to Superstorm Sandy recovery/mitigation capital expenditures.

The combined funding sources for the CPRB-approved 2010–2014 MTA Capital Programs and 2010–2014 MTA Bridges and Tunnels Capital Program include \$11,625 in MTA Bonds, \$2,022 in MTA Bridges and Tunnels dedicated funds, \$7,402 in Federal Funds, \$132 in MTA Bus Federal and City Match, \$719 from City Capital Funds, and \$1,277 from other sources. Also included is \$770 in State Assistance funds added to re-establish a traditional funding partnership. The funding strategy for Superstorm Sandy repair and restoration assumes the receipt of \$6,697 in insurance and federal reimbursement proceeds (including interim borrowing by MTA to cover delays in the receipt of such proceeds), \$171 in pay-as-you-go capital, supplemented, to the extent necessary, by external borrowing of up to \$889 in additional MTA and MTA Bridges and Tunnels bonds.

2005-2009 Capital Program — Capital programs covering the years 2005-2009 for: (1) the commuter railroad operations of the MTA conducted by MTA Long Island Rail Road and MTA Metro-North Railroad (the "2005–2009 Commuter Capital Program"), (2) the transit system operated by MTA New York City Transit and its subsidiary, MaBSTOA, the MTA Bus Company, and the rail system operated by MTA Staten Island Railway (the "2005–2009 Transit Capital Program") were originally approved by the MTA Board in April 2005 and subsequently by the CPRB in July 2005. The capital program for the toll bridges and tunnels operated by MTA Bridges and Tunnels (the "2005–2009 MTA Bridges and Tunnels Capital Program") was approved by the MTA Board in April 2005 and was not subject to CPRB approval. The 2005–2009 amended Commuter Capital Program and the 2005–2009 Transit Capital program (collectively, the "2005–2009 MTA Capital Programs") were last amended by the MTA Board in July 2008. This latest 2005-2009 MTA Capital Program amendment was resubmitted to the CPRB for approval in July 2008, and was approved in August 2009.

As last amended by the MTA Board, the 2005–2009 MTA Capital Programs and the 2005–2009 MTA Bridges and Tunnels Capital Program, provided for \$23,717 in capital expenditures. By December 31, 2021, the 2005-2009 MTA Capital Programs budget increased by \$634 primarily due to the receipt of new American Recovery and Reinvestment Act ("ARRA") funds and additional New York City Capital funds for MTA Capital Construction work still underway. Of the \$24,353 provided in capital expenditures, \$11,515 relates to ongoing repairs of, and replacements to the transit system operated by MTA New York City Transit and MaBSTOA and the rail system operated by MTA Staten Island Railway; \$3,723 relates to ongoing repairs of, and replacements to, the commuter system operated by MTA Long Island Rail Road and MTA Metro-North Railroad; \$166 relates to certain interagency projects; \$7,671 relates generally to the expansion of existing rail networks for both the transit and commuter systems to be managed by the MTA Capital Construction Company (including the East Side Access, Second Avenue Subway and No.7 subway line) and a security program throughout MTA's transit network; \$1,127 relates to the ongoing repairs of, and replacements to, bridge and tunnel facilities operated by MTA Bridges and Tunnels; and \$152 relates to capital projects for the MTA Bus.



The combined funding sources for the MTA Board-approved 2005–2009 MTA Capital Programs and 2005–2009 MTA Bridges and Tunnels Capital Program include \$10,954 in MTA and MTA Bridges and Tunnels Bonds (including funds for LaGuardia Airport initiative), \$1,450 in New York State general obligation bonds approved by the voters in the November 2005 election, \$7,827 in Federal Funds, \$2,838 in City Capital Funds, and \$1,284 from other sources.

#### **CURRENTLY KNOWN FACTS, DECISIONS, OR CONDITIONS**

#### The 2021 November Financial Plan

The 2021 MTA November Financial Plan (the "November Plan" or "Plan"), which includes the 2021 November forecast, the 2022 Final Proposed Budget and a Financial Plan for the years 2022 to 2025, updates the July Financial Plan. The Plan, as with all plans beginning with the 2020 July Plan, reflects the impact the novel coronavirus outbreak and the ensuing pandemic has had on the MTA Region. The MTA region has continued to make significant strides in the face of the COVID-19 pandemic. The rollout of highly effective COVID-19 vaccines, in combination with continued measures to control the spread of the virus, have resulted in many businesses and most government offices reopening at, or near, full capacity. Over the course of the year, ridership and traffic volumes have continued to gradually increase. Subway and bus service are scheduled at 100 percent of prepandemic levels with expectations of meeting that schedule daily, while the MTA Long Island Rail Road is providing service at approximately 85 percent of its pre-pandemic level and MTA Metro-North Railroad is providing approximately 82 percent of pre-pandemic service.

The most significant aspect of the July Plan was the inclusion of \$6.5 billion in anticipated federal funding aid through the American Rescue Plan Act of 2021 (ARPA), which was signed into law by President Biden on March 11, 2021. The second significant development was the wide-spread availability of COVID-19 vaccinations. As vaccination rates increased, capacity restrictions on restaurants, bars, event venues and businesses were mostly removed, ridership on MTA services increased beyond the worst-case ridership recovery scenario, instead tracking consistently with the midpoint between best-case and worst-case scenarios. Vehicular crossings on MTA Bridges and Tunnels facilities improved even quicker. These improvements in ridership and traffic, and the improved recovery assumptions, were incorporated into the July Plan.

The July Plan also reflected a 6% toll rate increase that went into effect in mid-April, compared with a four percent increase that had been previously proposed; a four percent fare rate increase was deferred until November 2021, subject to MTA Board approval. The larger toll rate increase was expected to generate \$175 million more than was expected under the four percent assumption. Other re-estimates included \$268 million in New Needs expenses, partially offset by an increase of \$94 million from savings programs. Other re-estimates were \$71 million unfavorable.

The July Plan included two savings actions and deficit borrowing to help close budget gaps that existed even with federal funding from the CARES Act (\$4 billion), CRRSAA (\$4 billion), and ARPA (\$6.5 billion). To achieve balance through 2025, the July Plan relied on the 2021 fare increase, along with the fare and toll increases proposed for 2023 and 2025, the two-year wage freeze, the guidelines based service adjustments to match anticipated demand, \$14.5 billion in federal funding, and the use of \$1.3 billion of deficit bonding proceeds.

Since the July Plan, ridership has slightly outpaced the mid-year forecast, while traffic underperformed slightly, resulting in \$133 million in additional farebox revenue and \$9 million less from toll revenues through 2025. Despite these positive developments, ridership remains below pre-pandemic levels. As of the first week in November, ridership recovery as a percentage of pre-pandemic levels was 55 percent on Subways, 64 percent on Buses, 40 percent on MTA Staten Island Railway, 52 percent on MTA Long Island Rail Road and 48 percent on MTA Metro-North Railroad. Traffic on MTA Bridges and Tunnels crossings was at 97 percent of the pre-pandemic crossing level. Ridership projections anticipate a "new normal" level of between 82% and 91% of pre-pandemic levels by the first quarter of 2024, the result of continuation of hybrid work schedules, with fewer days per week traveling to an office location, increased online shopping at the expense of brick and mortar locations, slower return of tourism, and increases in alternative travel, such as walking and bicycling. MTA Bridges and Tunnels traffic is expected to fully recover to its pre-pandemic level by the second quarter of 2022.

In addition to farebox and toll revenue, re-estimates include \$454 million in additional expenses and savings program re-estimates which reduce savings by \$302 million from the July Plan. New Needs requests in the November Plan fund initiatives to improve maintenance and operations, enhance IT infrastructure, invest in safety initiatives, improve communications and expand human resources capabilities to expedite critical maintenance and operations hiring. Among the major initiatives are: expansion of the all-electric bus fleet testing program as the MTA transitions to a fully zero-emissions fleet by 2040; additional service-providing staff at MTA New York City Transit to respond to higher employee absences to ensure scheduled service can be provided; a dedicated auditing staff in the MTA Long Island Rail Road Signal Group to support recommendations that emerged from a yard derailment investigation; at MTA Metro-North Railroad, twenty-year maintenance of its M-7 fleet and life extension of its M-3A fleet; increased ticket vending machine maintenance, trash removal and fire brigade/EMS coverage to support the opening of East Side Access; weekly employee COVID testing to conform with NY State mandates; the provision of mandated training to security sensitive employees; enhancements and upgrades to the MTA's Peoplesoft system to allow for increased functionality; a new crew dispatching and management system for the MTA Long Island Rail Road and MTA Metro-



North Railroad; and, additional MTA Metro-North Railroad conductors to meet Connecticut Department of Transportation's service requirements.

The 2021 fare increase, originally proposed to go into effect in March 2021, and then deferred until November 2021 in the July Plan, is now proposed to be implemented in July 2022. This timing change reduces the farebox revenue that is expected to be generated by \$17 million in 2021 and \$88 million in 2022.

## Impacts from Global Coronavirus Pandemic

On March 12, 2020, the World Health Organization declared the current novel coronavirus ("COVID-19") outbreak to be a pandemic in the face of the global spread of the virus. By order of Governor Cuomo ("New York State on PAUSE"), effective March 2020, all non-essential businesses Statewide were required to be closed, among other restrictive social distancing and related measures. The impact of social distancing and subsequent State governmental orders limiting non-essential activities caused by the COVID-19 pandemic resulted in a severe decline in the utilization of MTA services, dramatic declines in MTA public transportation system ridership and fare revenues, and MTA Bridge and Tunnel crossing traffic and toll revenues. Social distancing mandates have eased, and the region moved into a late-pandemic phase. A significant development has been the impact of COVID-19 vaccinations on the MTA region. Capacity restrictions on restaurants, bars, event venues and businesses put in place due to COVID-19 were mostly removed on May 19, 2021, and all remaining restrictions were eliminated on June 15 after the State reached its goal of 70% of adults receiving at least a first dose of the vaccine. Ridership levels continue to show improvement, although ridership remains significantly below pre-pandemic levels. MTA New York City Subway resumed 24 hours a day service on May 17, 2021, after subway service was shut down overnight for over a year to allow for thorough disinfecting of the system and other enhancements. MTA Long Island Rail Road currently operates on an 87% pre-pandemic service level during the week and 100% on weekends relative to pre-pandemic levels.

- Ridership and Traffic Update. Daily ridership on MTA facilities continues to be well-below 2019 levels. While ridership has been steadily increasing, March 31, 2022, ridership compared to the pre-pandemic equivalent day in 2019 is down 44 percent on the subways, 44 percent for bus (combined NYCT bus and MTA Bus Company), 46 percent on MTA Metro-North Railroad, and 43 percent on the MTA Long Island Rail Road. Traffic crossings at MTA Bridges and Tunnels facilities are nearly at pre-pandemic levels with toll revenues comprising approximately 12% of our operating budget net of bridge and tunnel operations and associated debt service.
- Federal Legislative Actions. Three major pieces of federal emergency legislation have provided and will provide incremental federal aid to the MTA. The first was the CARES Act, which was signed into law on March 27, 2020. The CARES Act, through the Federal Transit Administration's ("FTA") formula funding provisions provided \$4.0 billion to MTA. The second major COVID-19 pandemic aid bill was the Coronavirus Response and Relief Supplemental Appropriations Act of 2021 ("CRRSAA"), which became law on December 27, 2020. The MTA received \$4.1 billion in aid from the CRRSAA between December 2021 (\$0.6 billion) and January 2022 (\$3.5 billion). The third major COVID-19 pandemic aid bill is the \$1.9 trillion "American Rescue Plan Act of 2021 ("ARPA") which was signed into law by President Biden on March 11, 2021. On November 9, 2021, an agreement was reached on the allocation of the CRRSAA and ARPA monies among the states of New York, New Jersey, and Connecticut. MTA is expected to receive approximately \$6.1 billion in federal aid from ARPA in 2022, of which a total of \$4.9 billion was received as of April 2022 for allocation among the agencies. In September of 2021, additional ARPA Assistance funding was made available to transit systems demonstrating additional pandemic associated needs. Details on the receipts and timing of the additional assistance are not yet available.
- **FEMA Reimbursement.** The MTA is eligible for Federal Emergency Management Agency ("FEMA") payments in addition to the CARES Act, CRRSAA and ARPA funding, which are expected to cover expenses related to the COVID-19 pandemic, over and above normal emergency costs that are not covered by other federal funding. An estimated \$651.7 of direct COVID-19 related expenses incurred from the start of the pandemic through December 31, 2021 was submitted by MTA to the New York State Department of Budget ("DOB"), which is the agency managing COVID-19-related expense reimbursement from FEMA.

For additional information, refer to Note 14 to the MTA's Consolidated Financial Statements for more information regarding the impact from the COVID-19 pandemic.

This financial report is designed to provide our customers and other interested parties with a general overview of MTA finances and to demonstrate MTA's accountability for the funds it receives. If you have any questions about this report or need additional financial information, contact Metropolitan Transportation Authority, Deputy Chief, Controller's Office, 2 Broadway, New York, NY 10004.

#### Tropical Storm Sandy Update

The total allocation of emergency relief funding from the Federal Transit Administration ("FTA") to MTA in connection with Superstorm Sandy to date is \$5.83 billion, including \$1.599 billion allocated on September 22, 2014, through a competitive



resiliency program. A total of \$5.81 billion in FTA Emergency Relief Funding has been executed: seven repair/local priority resiliency grants totaling \$4.55 billion and seventeen competitive resiliency grants totaling \$1.26 billion. As of December 30, 2021, MTA has drawn down a total of \$3.61 billion in grant reimbursement for eligible operating and capital expenses. The balance of funds to be drawn down from all twenty-four grants is available to MTA for reimbursement of eligible expenses as requisitions are submitted by MTA and approved by FTA. Additional requisitions are in process. At MTA and Amtrak's request, in April 2018, FTA transferred \$13.5 million of MTA's emergency relief allocation to the Federal Railroad Administration ("FRA") to allow Amtrak to execute a portion of MTA Long Island Rail Road's Competitive Resilience scope.

All MTA-allocated Superstorm Sandy FTA emergency relief funding/grants have been executed.

#### Labor Update

In January 2020 the MTA Board approved a labor agreement in which the New York City Transit Authority/Manhattan and Bronx Surface Transit Operating Authority, together with MTA Bus Company, settled new terms with the Transport Workers Union, Local 100 ("TWU Local 100"). With this development, the MTA was poised to begin a new round of collective bargaining with nearly all its represented employees. The TWU Local 100 agreement, covering the period May 16, 2019 to May 15, 2023, would normally be considered a pattern-setting agreement that would establish parameters for future agreements with all other bargaining units. However, the havoc caused by the emergence in the second quarter of the COVID-19 virus in and around New York City posed numerous challenges, both logistical and financial, to the normal functions of the MTA. Collective bargaining was, as a practical consequence, deferred for most of 2020.

Since the resumption of labor negotiations in the first quarter of 2021, the MTA has sought labor agreements, both equitable and financially prudent, whose economic provisions would be patterned after those contained in the 2019-2023 TWU deal. Throughout the year, the MTA continued to pursue a collective bargaining strategy that would recognize both the dedication of our represented workforce and the significant financial uncertainty cast by COVID-19.

As previously reported, successful negotiations through the third quarter of 2021 produced labor agreements that covered more than 90% of represented employees at Long Island Railroad and more than 30% at Metro-North. These agreements awarded general wage increases of 2.0% and 2.25% for 2019 and 2020, respectively, truncating the four-year pattern established in the 2019-2023 TWU deal and deferring its later wage increases (2.5% for 2021 and 2.75% for 2022) until negotiations on further provisions could proceed with improved estimates of the long-term effects of COVID on MTA's finances. In the fourth quarter, several additional 2-Year labor agreements with identical economic provisions were approved by the MTA Board, increasing the number of union members at Metro-North who are covered by such agreements to more than 60% of the total represented population.

Additionally, and in parallel with this collective bargaining effort, throughout 2021 the MTA has been able to settle terms with several other unions that follow other recognized agreement patterns, including nearly 1,300 represented employees whose agreements—having expired prior to 2019—mirror the provisions of the 2017-2019 TWU agreement.

The following summarizes in greater detail the status of MTA's labor relations through December 31, 2021, including significant new agreements passed by the MTA Board in November and December.

MTA Long Island Rail Road – As of December 31, 2021, MTA Long Island Rail Road had approximately 6,983 employees. Approximately 6,155 of the railroad's employees are represented by 8 different unions in 19 bargaining units. Collective bargaining efforts in the first and second quarters of 2021 produced several agreements that were ratified and approved by the MTA Board in June. These agreements, reached separately with all MTA Long Island Rail Road unions other than the Brotherhood of Locomotive Engineers and a small group of Supervisors in the International Railway Supervisors Association, cover approximately 93% of the represented workforce at MTA Long Island Rail Road. Spanning the two-year period from April 16, 2019 through April 15, 2021, the agreements include identical provisions. They each award the same wage increases as the first two years of the current 4-year TWU Local 100 agreement: that is, 2.0% on the first day of the new agreement and an additional 2.25% one year later. They include no other financial terms. Because all the MTA Long Island Rail Road agreements passed by the Board in June span through April 2021, the railroad's represented population are seeking new terms going forward.

MTA Metro-North Railroad – Along with the labor agreements between Long Island Rail Road and most of its unions (described above), the June 2021 Board passed several virtually identical agreements between Metro-North and several of its unions. These 24-month agreements covered approximately 1,962 employees.

In November, the railroad secured additional 2-year agreements (spanning 2019-2021) with 280 Machinists represented by the International Association of Machinists ("IAM"); with 210 employees in mechanical titles represented by the American Railway and Airway Supervisor Association ("ARSA MoE"); with 271 Signalmen and Maintainers, represented by the Association of Commuter Rail Employees, Division 166 (Signalmen); and with 26 Power Directors represented by the Association of Commuter Rail Employees, Division 37.

In December, the MTA Board ratified 2-year agreements, also spanning 2019-2021, with more than 1,000 additional union members of Metro-North who are represented by two separate bargaining units of the Association of Commuter Rail Employees, Division-1. These agreements cover 961 Conductors, Assistant Conductors and Hostlers, as well as 40 Yardmasters and Assistant



Stationmasters. The November and December agreements all provide the first two wage increases present in the 2019 to 2023 TWU Local 100 pattern: a 2.0% general wage increase for 2019 and a 2.25% increase for 2021.

All the MTA Metro-North Railroad labor agreements passed in 2021 covered periods that had either lapsed or would lapse before the end of 2021. Hence, MTA Metro-North Railroad's represented population of approximately 5,115 employees will be seeking new agreement terms beyond 2021.

MTA Headquarters – As of December 30, 2021, nearly all the 3,400 represented MTA Headquarters' employees were under expired labor agreements. Labor agreements with MTA Police members of the Police Benevolent Association ("PBA") and of the Commanding Officers Association ("COA") expired in October 2018, and negotiations to establish new terms with these MTA Police unions, currently covering more than 1,000 employees, or around 31% of MTA Headquarters' represented population, were delayed by the circumstances surrounding the COVID-19 pandemic. Also, MTA Headquarters' agreements with the Transportation Communications unions ("TCU"), currently representing approximately 841 employees who work at MTA Headquarters, are all beyond term. These include IT employees of TCU Local 982, whose agreement expired on December 31, 2019; and Business Service Center, Pensions and Procurement employees, represented by TCU Local 643, whose agreement expired March 31, 2020.

MTA New York City Transit/Manhattan and Bronx Surface Transit Operating Authority -- MTA New York City Transit and MaBSTOA currently employ approximately 46,386 people, 44,681 of whom are represented by 12 unions with 19 bargaining units. Aside from the TWU Local 100 agreement, which covers approximately 37,000 employees, by the fourth quarter MTA New York City Transit/MaBSTOA had settled terms with three separate bargaining units of TWU Local 106, whose agreements had expired prior to 2019 and whose new terms corresponded to the TWU Local 100 pattern established for that union's 2017-2019 round of bargaining. The agency had also reached a 2017-2019 pattern-based agreement for a small unit of supervisory employees represented by Special Inspectors Supervisors Employee Association ("SISEA").

In November, the MTA Board passed an agreement with the Doctors Council, a small unit of the Service Employees International Union ("SEIU"), representing 15 Physicians and Deputy Medical Directors. The 45-month agreement was patterned after the 2017-2021 agreement between New York City and its Doctors Council bargaining unit.

In December, the MTA Board approved the implementation of a collective bargaining agreement between New York City Transit, the Manhattan and Bronx Surface Transit Operating Authority, MTA Bus Company, MTA Headquarters and the United Transit Leadership Organization ("UTLO"). The agreement with approximately 877 employees in first line managerial titles covers the period from July 1,2019 through December 31, 2021.

This was the first labor agreement with UTLO that has been brought before the MTA Board for approval, as the UTLO is relatively new among MTA's labor unions. Recognized in 2017 by the Public Employment Relations Board ("PERB") as the representative of Superintendents, Deputy Superintendents and Assistant Superintendents within the MTA New York City Transit/MTA Bus Department of Buses, the Department of Subways and various Support Departments, the UTLO consists of employees who were formerly non-represented managers. An initial agreement, covering the period from November 6, 2017 to June 30, 2019, had earlier provided for the equivalent general wage increases received by non-represented managers, and had also provided for the continuation of the benefits and working conditions they had been receiving as previously non-represented managers.

The agreement approved in December 2021 again awarded wage increases equivalent to those received by non-represented managers: (2.0% increases for both 2020 and 2021). Among its other provisions, the agreement also established compensation floors to address long-standing difficulties in the recruitment and retention of the titles now represented by UTLO. Unlike any of the other agreements reached in 2021, the new agreement with UTLO was not a pattern-follower.

In 2020, in response to the COVID-related necessity of delaying collective bargaining, the Amalgamated Transit Unions (Locals 726 and 1056), which represent approximately 3,400 operational employees at MTA New York City Transit, began impasse mediation proceedings to compel a new agreement. The union sought delivery of a full four-year agreement matching the 2019-23 TWU pattern. In December, the Arbitrator of the case issued a decision that upholds the economic provisions of the full four-year TWU agreement. Accordingly, approximately 3,400 members of ATU's 1056 and 726 will receive annual wage increases, retroactive to 2019, of 2.0%, 2.25%, 2.50% and 2.75%. It remains to negotiate the other costs and savings of the TWU-based settlement.

Aside from TWU Local 100 and the ATU's, the vast majority of the remaining represented population at MTA New York City Transit will be seeking new agreement terms going forward.

MTA Bus Company – MTA Bus Company has 3,773 employees, approximately 3,618 of whom are represented by three different unions (now including UTLO) and five bargaining units. The largest of these is TWU Local 100, whose members were co-parties to the agreement approved by the MTA Board in January 2020 and whose current agreement will run through May 14, 2023.

As described above, in June the MTA Board had approved agreements with separate bargaining units with TWU Local 106 ("TSO"), including approximately 304 employees in the MTA Bus Company. That agreement spanned from September 1, 2018 to December 31, 2020.



The operational employees represented by the Amalgamated Transit Union (Locals 1179 and 1181) were parties to the arbitration proceedings described above. As a result of the December ruling, they will also be covered by a TWU-based agreement that will run through October 31, 2023.

MTA Bridges and Tunnels – MTA Bridges and Tunnels has 1,083 employees, approximately 761 of whom were represented by three different labor unions (four bargaining units). As of December 30, 2021, all MTA Bridges and Tunnels' labor agreements have expired. In July of 2020, the labor agreement with approximately 339 Maintainers, members of DC 37 Local 1931, expired. The most recent Memorandum of Understanding between the agency and the MTA Bridges and Tunnels Officers Benevolent Association ("BTOBA"), having been passed by the MTA Board in June 2019, expired shortly afterwards (in September of 2019), and its members remained without a successor agreement throughout 2020 and through the fourth quarter of 2021. Negotiations with the Superior Officers Benevolent Association ("SOBA") representing approximately 121 supervisory officers, which expired March 14, 2012, have advanced to mediation. SOBA, at the time ineligible to seek binding interest arbitration, requested that the Public Employment Relations Board ("PERB") appoint a fact-finder. This request was granted, and the parties, at year-end, awaited the conclusions of this endeavor. Finally, MTA Bridges and Tunnels' agreement with approximately 34 administrative and clerical employees represented by the American Federation of State, County and Municipal Employees, District Council 37, Local 1655 ("DC37 Local 1655") expired in the second quarter, on May 25, 2021. Like most represented employees at MTA, the represented population at MTA Bridges and Tunnels is seeking new agreements going forward.

MTA Staten Island Railway – During the fourth quarter of 2021, MTA Staten Island Railway had 340 employees, approximately 312 of whom were represented by four different unions. In December, the MTA Board approved a 2-year, TWU-patterned agreement with 25 members of the Transportation Communications Union. It awards general wage increases of 2.0% and 2.25% for 2019 and 2020, respectively, with no other financial terms. However, the agreement covers the twenty-four month period through April 16, 2021 and was expired upon ratification. Labor agreements with all three of the railway's other unions at the end of 2021 were also expired, and all represented employees at MTA Staten Island Railway will be seeking new terms going forward.

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## (A Component Unit of the State of New York)

## CONSOLIDATED STATEMENTS OF NET POSITION

## **AS OF DECEMBER 31, 2021 AND 2020**

(\$ in millions)

	Business-Ty	pe Activities	
	December 31, 2021	December 31, 2020	
ASSETS AND DEFERRED OUTFLOWS OF RESOURCES			
CURRENT ASSETS:			
Cash unrestricted (Note 3)	\$ 526	\$ 782	
Cash restricted (Note 3)	256	244	
Unrestricted investments (Note 3)	6,111	3,600	
Restricted investments (Note 3)	5,451	5,340	
Restricted investments held under capital lease obligations (Notes 3 and 8)	151	99	
Receivables:			
Station maintenance, operation, and use assessments	116	117	
State and regional mass transit taxes	167	146	
Mortgage Recording Tax receivable	63	51	
State and local operating assistance	11	12	
Other receivable from New York City and New York State	244	142	
Due from Build America Bonds	1	1	
Receivable from federal and state government	3,555	32	
Other	720	550	
Less allowance for doubtful accounts	(333)	(294)	
Total receivables — net	4,544	757	
Materials and supplies	675	667	
Prepaid expenses and other current assets (Note 2)	173	140	
Total current assets	17,887	11,629	
NON-CURRENT ASSETS:			
Capital assets (Note 6):			
Land and construction work-in-progress	23,626	22,023	
Other capital assets (net of accumulated depreciation)	60,133	58,872	
Unrestricted investments (Note 3)	1,001	251	
Restricted investments (Note 3)	739	690	
Restricted investments held under capital lease obligations (Notes 3 and 8)	252	293	
Other non-current receivables	100	16	
Receivable from New York State	10	10	
Other non-current assets	9	10	
Total non-current assets	85,870	82,165	
TOTAL ASSETS	103,757	93,794	
DEFERRED OUTFLOWS OF RESOURCES:			
Accumulated decreases in fair value of derivative instruments (Note 7)	384	494	
Loss on debt refunding (Note 7)	740	837	
Deferred outflows related to pensions (Note 4)	2,706	3,053	
Deferred outflows related to OPEB (Note 5)	4,033	1,817	
TOTAL DEFERRED OUTFLOWS OF RESOURCES	7,863	6,201	
TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	<u>\$ 111,620</u>	\$ 99,995	

See notes to the consolidated financial statements.



## (A Component Unit of the State of New York)

## CONSOLIDATED STATEMENTS OF NET POSITION

## AS OF DECEMBER 31, 2021 AND 2020

(\$ in millions)

	Business-Type Activities			ies	
	December 31, 2021		December 31, 2020		
LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION	·				
CURRENT LIABILITIES:					
Accounts payable	\$ 37	18 5	\$	491	
Accrued expenses:					
Interest	31			267	
Salaries, wages and payroll taxes	57			558	
Vacation and sick pay benefits	1,11			1,061	
Current portion — retirement and death benefits		37		93	
Current portion — estimated liability from injuries to persons (Note 10)	54			491	
Capital accruals	51			641	
Accrued expenses	58			536	
Other	49			464	
Total accrued expenses	4,18	4		4,111	
Current portion — loan payable (Note 7)		14		15	
Current portion — long-term debt (Note 7)	8,06			1,543	
Current portion — obligations under capital lease (Note 8)		14		4	
Current portion — pollution remediation projects (Note 12)	2	29		29	
Derivative fuel hedge liability (Note 15)	0.7	- 71		4	
Unearned revenues	87	<u> </u>		987	
Total current liabilities	13,55	<u>.9</u> -		7,184	
NON-CURRENT LIABILITIES:					
Net pension liability (Note 4)	4,89	19		8,359	
Estimated liability arising from injuries to persons (Note 10)	4,55	;7		4,184	
Net OPEB liability (Note 5)	24,40	19		21,117	
Loan payable (Note 7)	8	32		94	
Long-term debt (Note 7)	48,43	1		49,470	
Obligations under capital leases (Note 8)	42			427	
Pollution remediation projects (Note 12)	11			123	
Contract retainage payable	41			479	
Derivative liabilities (Note 7)	39			502	
Other long-term liabilities	43	<u>-5</u>		508	
Total non-current liabilities	84,16	0		85,263	
TOTAL LIABILITIES	97,71	.9		92,447	
DEFERRED INFLOWS OF RESOURCES:					
Gain on debt refunding	3	31		38	
Deferred inflows related to pensions (Note 4)	2,99	<i>)</i> 4		796	
Deferred inflows related to OPEB (Note 5)	1,73	3		1,731	
TOTAL DEFERRED INFLOWS OF RESOURCES	4,75	. 8		2,565	
NET POSITION:					
Net investment in capital assets	29,89	19		32,884	
Restricted for debt service	1,03	9		480	
Restricted for claims	22			287	
Restricted for other purposes (Note 2)	1,34			1,184	
Unrestricted	(23,36	<u>6)</u> .		(29,852)	
TOTAL NET POSITION	9,14	3		4,983	
TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION	\$ 111,62	0 9	\$	99,995	
See notes to the consolidated financial statements.		(	(Conclu	ded)	



## (A Component Unit of the State of New York)

## CONSOLIDATED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

## YEARS ENDED DECEMBER 31, 2021 AND 2020

(\$ in millions)

	Business	Business-Type Activities		
	December 31 2021	,	December 31, 2020	
OPERATING REVENUES:				
Fare revenue	\$ 3,0		\$ 2,625	
Vehicle toll revenue	2,1		1,640	
Rents, freight, and other revenue	5	57	463	
Total operating revenues	5,7	75	4,728	
OPERATING EXPENSES:				
Salaries and wages	6,2	04	6,246	
Retirement and other employee benefits	2,2	64	3,054	
Postemployment benefits other than pensions (Note 5)	1,8	65	1,677	
Electric power	4	30	385	
Fuel	1	63	103	
Insurance		26	(5)	
Claims	4	26	237	
Paratransit service contracts	3	46	326	
Maintenance and other operating contracts	7	26	730	
Professional service contracts	5	03	438	
Pollution remediation projects (Note 12)		37	123	
Materials and supplies	4	86	543	
Depreciation (Note 2)	3,1	58	3,011	
Other	1	96	150	
Total operating expenses	16,8	30	17,018	
OPERATING LOSS	(11,0	<u>55)</u>	(12,290)	
NON-OPERATING REVENUES (EXPENSES):				
Grants, appropriations and taxes:				
Tax-supported subsidies — NYS:				
Mass Transportation Trust Fund subsidies		83	562	
Metropolitan Mass Transportation Operating Assistance subsidies	2,2		1,564	
Payroll Mobility Tax subsidies	2,0		1,761	
MTA Aid Trust Account subsidies	2	64	248	
Internet sales tax subsidies	3	45	260	
Tax-supported subsidies — NYC and Local:				
Mortgage Recording Tax subsidies	6	60	465	
Urban Tax subsidies	5	13	353	
Mansion Tax	3	94	180	
Other subsidies:				
Operating Assistance - 18-B program		10	332	
Build America Bond subsidy		84	89	
New York City Assistance Fund	2	53	200	
Total grants, appropriations and taxes	\$ 7,7	61	\$ 6,014	

See notes to the consolidated financial statements.

(Continued)



# CONSOLIDATED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

YEARS ENDED DECEMBER 31, 2021 AND 2020

(\$ In millions)

	<b>Business-Type Activities</b>			
	December 31, 2021	December 31, 2020		
NON-OPERATING REVENUES (EXPENSES):				
Connecticut Department of Transportation	\$ 292	\$ 256		
Subsidies paid to Dutchess, Orange, and Rockland Counties	(13)	(13)		
Interest on long-term debt (Note 2)	(1,813)	(1,722)		
Station maintenance, operation and use assessments	177	174		
Operating subsidies recoverable from NYC	483	378		
Federal Transit Administration reimbursement related to CRRSAA and the CARES Act COVID-19	4,114	4,010		
Other net non-operating revenues	425	143		
Net non-operating revenues	11,426	9,240		
GAIN / (LOSS) BEFORE APPROPRIATIONS, GRANTS AND OTHER RECEIPTS				
EXTERNALLY RESTRICTED FOR CAPITAL PROJECTS	371	(3,050)		
APPROPRIATIONS, GRANTS AND OTHER RECEIPTS				
EXTERNALLY RESTRICTED FOR CAPITAL PROJECTS	3,789	3,582		
CHANGE IN NET POSITION	4,160	532		
NET POSITION— Beginning of year	4,983	4,451		
NET POSITION — End of year	\$ 9,143	\$ 4,983		

See notes to the consolidated financial statements.

(Concluded)



# CONSOLIDATED STATEMENTS OF CASH FLOWS

# YEARS ENDED DECEMBER 31, 2021 AND 2020

(\$ In millions)

	Business-Tyl	pe Activities
	December 31, 2021	December 31, 2020
CASH FLOWS FROM OPERATING ACTIVITIES:		
Passenger receipts/tolls	\$ 5,219	\$ 4,191
Rents and other receipts	233	556
Payroll and related fringe benefits	(10,334)	(8,948)
Other operating expenses	(3,122)	(3,020)
Net cash used by operating activities	(8,004)	(7,221)
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES:		
Grants, appropriations, and taxes	7,837	6,446
Operating subsidies from CDOT	285	264
Subsidies paid to Dutchess, Orange, and Rockland Counties	(13)	(10)
Federal Transit Administration reimbursement related to COVID-19	593	4,010
Internet and Mansion Tax	719	
Net cash provided by noncapital financing activities	9,421	10,710
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES:		
MTA bond proceeds	1,648	5,031
MTA Bridges and Tunnels bond proceeds	3,595	750
MTA bonds refunded/reissued	(1,770)	(1,344)
MTA Bridges and Tunnels bonds refunded/reissued	-	(126)
MTA anticipation notes proceeds	4,000	4,985
MTA anticipation notes redeemed	(1,250)	(3,300)
MTA credit facility proceeds	720	995
MTA credit facility refunded	(1)	(525)
Capital lease payments and terminations	(1)	(15)
	1,700	, ,
Federal and local grants	*	1,469
Other capital financing activities	1,498	1,727
Payment for capital assets	(5,222)	(5,855)
Debt service payments	(3,136)	(3,248)
Internet and Mansion Tax		111
Net cash provided by capital and related financing activities	1,782	655
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchase of long-term securities	(12,297)	(7,547)
Sales or maturities of long-term securities	10,604	5,650
Net purchases of short-term securities	(1,802)	(1,855)
Earnings on investments	52	80
Net cash used by investing activities	(3,443)	(3,672)
NET (DECREASE) / INCREASE IN CASH	(244)	472
CASH — Beginning of year	1,026	554
CASH — End of year	<u>\$ 782</u>	\$ 1,026

See notes to the consolidated financial statements.

(Continued)



# CONSOLIDATED STATEMENTS OF CASH FLOWS

# YEARS ENDED DECEMBER 31, 2021 AND 2020

(\$ In millions)

		Business-Type Activities			
		December 31, 2021			
RECONCILIATION OF OPERATING LOSS TO NET CASH USED BY					
OPERATING ACTIVITIES:					
Operating loss (Note 2)	\$	(11,055)	\$	(12,290)	
Adjustments to reconcile to net cash used in operating activities:					
Depreciation and amortization		3,158		3,010	
Net increase in payables, accrued expenses, and other liabilities		882		3,221	
Net (decrease) / increase in deferred outflows related to pensions		(347)		710	
Net increase in deferred outflows related to OPEB		2,216		280	
Net (decrease) / increase in deferred inflows related to pensions		(2,197)		138	
Net decrease in deferred inflows related to OPEB		(3)		(56)	
Net increase / (decrease) in net pension liability and related accounts		3,460		(776)	
Net decrease in net OPEB liability and related accounts		(3,293)		(1,534)	
Net (decrease) / increase in receivables		(807)		222	
Net decrease in materials and supplies and prepaid expenses		(18)		(146)	
NET CASH USED BY OPERATING ACTIVITIES	<u>\$</u>	(8,004)	\$	(7,221)	
NONCASH INVESTING, CAPITAL AND RELATED FINANCING ACTIVITIES:					
Noncash investing activities:					
Interest expense includes amortization of net (premium) / discount (Note 2)	\$	251	\$	(206)	
Noncash capital and related financing activities:					
Capital assets related liabilities		511		641	
Capital leases related liabilities		437		431	
Total Noncash capital and related financing activities		948		1,072	
TOTAL NONCASH INVESTING, CAPITAL AND RELATED FINANCING ACTIVITIES	\$	1,199	\$	866	

See notes to the consolidated financial statements.

(Concluded)



# STATEMENTS OF FIDUCIARY NET POSITION PENSION AND OTHER EMPLOYEE BENEFIT TRUST FUNDS AS OF DECEMBER 31, 2021 AND 2020

(\$ In thousands)

	Fiduciary Activities					
	<b>December 31, 2021</b>			December 31, 2020		
ASSETS:						
Cash	\$	39,379	\$	20,258		
Receivables:						
Employee loans		26,082		30,744		
Participant and union contributions		(20)		(6)		
Investment securities sold		5,671		4,671		
Accrued interest and dividends		4,882		4,438		
Other receivables		3,770		21,784		
Total receivables		40,385		61,631		
Investments at fair value		10,144,509		9,009,691		
Total assets	\$	10,224,273	\$	9,091,580		
LIABILITIES:						
Accounts payable and accrued liabilities	\$	8,315	\$	5,777		
Payable for investment securities purchased		14,759		8,780		
Accrued benefits payable		74		115		
Accrued postretirement death benefits (PRDB) payable		5,405		4,204		
Accrued 55/25 Additional Members Contribution (AMC) payable		3,847		4,643		
Other liabilities		2,987		353		
Total liabilities		35,387		23,872		
NET POSITION:						
Restricted for pensions		10,188,803		9,067,578		
Restricted for postemployment benefits other than pensions		83		130		
Total net position		10,188,886		9,067,708		
Total liabilities and net position	\$	10,224,273	\$	9,091,580		

See notes to the consolidated financial statements.



# STATEMENTS OF CHANGES IN FIDUCIARY NET POSITION PENSION AND OTHER EMPLOYEE BENEFIT TRUST FUNDS FOR THE YEARS ENDED DECEMBER 31, 2021 AND 2020 (\$ In thousands)

	Fiduciary Activities					
	<b>December 31, 2021</b>			December 31, 2020		
ADDITIONS:						
Contributions:						
Employer contributions	\$	1,362,952	\$	941,094		
Implicit rate subsidy contribution		52,933		69,472		
Member contributions		58,840		56,856		
Total contributions		1,474,725		1,067,422		
Investment income:						
Net appreciation in fair value of investments		1,112,770		39,569		
Dividend income		115,369		76,709		
Interest income		20,453		27,059		
Less:						
Investment expenses		85,192		60,561		
Investment income, net		1,163,400		82,776		
Other additions:						
Total additions		2,638,125		1,150,198		
DEDUCTIONS:						
Benefit payments and withdrawals		1,456,931		1,339,727		
Implicit rate subsidy payments		52,933		69,472		
Transfer to other plans		474		(645)		
Distribution to participants		2,175		-		
Administrative expenses		4,434		4,725		
Total deductions		1,516,947		1,413,279		
Net increase / (decrease) in fiduciary net position		1,121,178		(263,081)		
NET POSITION:						
Restricted for Benefits:						
Beginning of year		9,067,708		9,330,789		
End of year	\$	10,188,886	\$	9,067,708		

See notes to the consolidated financial statements.



# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS FOR THE YEARS ENDED DECEMBER 31, 2021 AND 2020

(\$ In millions, except as noted)

#### 1. BASIS OF PRESENTATION

**Reporting Entity** — The Metropolitan Transportation Authority ("MTA") was established in 1965, under Section 1263 of the New York Public Authorities Law, and is a public benefit corporation and a component unit of the State of New York ("NYS") whose mission is to continue, develop and improve public transportation and to develop and implement a unified public transportation policy in the New York metropolitan area.

These consolidated financial statements are of the Metropolitan Transportation Authority ("MTA"), including its related groups (collectively, the "MTA Group"), which are listed below. The Business-Type activities in these consolidated financial statements purport the operations of the MTA Group.

#### Metropolitan Transportation Authority and Related Groups (Component Units)

- Metropolitan Transportation Authority Headquarters ("MTAHQ") provides support in budget, cash management, finance, legal, real estate, treasury, risk and insurance management, and other services to the related groups listed below.
- The Long Island Rail Road Company ("MTA Long Island Rail Road") provides passenger transportation between New York City ("NYC") and Long Island.
- Metro-North Commuter Railroad Company ("MTA Metro-North Railroad") provides passenger transportation between NYC and the suburban communities in Westchester, Dutchess, Putnam, Orange, and Rockland counties in NYS and New Haven and Fairfield counties in Connecticut.
- Staten Island Rapid Transit Operating Authority ("MTA Staten Island Railway") provides passenger transportation on Staten Island.
- First Mutual Transportation Assurance Company ("FMTAC") provides primary insurance coverage for certain losses, some of which are reinsured, and assumes reinsurance coverage for certain other losses.
- MTA Construction and Development ("MTA Construction and Development") provides oversight for the planning, design and construction of current and future major MTA system-wide expansion projects.
- MTA Bus Company ("MTA Bus") operates certain bus routes in areas previously served by private bus operators pursuant to franchises granted by the City of New York.
- MTAHQ, MTA Long Island Rail Road, MTA Metro-North Railroad, MTA Staten Island Railway, FMTAC, MTA Capital Construction, and MTA Bus, collectively are referred to herein as MTA. MTA Long Island Rail Road and MTA Metro-North Railroad are referred to collectively as the Commuter Railroads.
- New York City Transit Authority ("MTA New York City Transit") and its subsidiary, Manhattan and Bronx Surface
  Transit Operating Authority ("MaBSTOA"), provide subway and public bus service within the five boroughs of New
  York City.
- Triborough Bridge and Tunnel Authority ("MTA Bridges and Tunnels") operates seven toll bridges, two tunnels, and the Battery Parking Garage, all within the five boroughs of New York City.

The subsidiaries and affiliates, considered component units of the MTA, are operationally and legally independent of the MTA. These related groups enjoy certain rights typically associated with separate legal status including, in some cases, the ability to issue debt. However, they are included in the MTA's consolidated financial statements as blended component units because of the MTA's financial accountability for these entities and they are under the direction of the MTA Board (a reference to "MTA Board" means the board of MTAHQ and/or the boards of the other MTA Group entities that apply in the specific context, all of which are comprised of the same persons). Under accounting principles generally accepted in the United States of America ("GAAP"), the MTA is required to include these related groups in its financial statements. While certain units are separate legal entities, they do have legal capital requirements and the revenues of all of the related groups of the MTA are used to support the organizations as a whole. The components do not constitute a separate accounting entity (fund) since there is no legal requirement to account for the activities of the components as discrete accounting entities. Therefore, the MTA financial statements are presented on a consolidated basis with segment disclosure for each distinct operating activity. All of the component units publish separate annual financial statements, which are available by writing to the MTA Comptroller, 2 Broadway, 16th Floor, New York, New York 10004.

Although the MTA Group collects fares for the transit and commuter service, they provide and receive revenues from other sources, such as the leasing out of real property assets, and the licensing of advertising. Such revenues, including anticipated revenues from fare increases, are not sufficient to cover all operating expenses associated with such services. Therefore, to maintain a balanced budget, the members of the MTA Group providing transit and commuter service rely on operating surpluses transferred from MTA Bridges and Tunnels, operating subsidies provided by NYS and certain local governmental entities in the MTA commuter district, and service reimbursements from certain local governmental entities in the MTA commuter district and from the State of Connecticut. Non-operating subsidies to the MTA Group for transit and commuter service for the year ended December 31, 2021 and 2020 totaled \$7.8 billion and \$6.0 billion, respectively.

**Basis of Presentation - Fiduciary Funds** – The fiduciary fund financial statements provide information about the funds that are used to report resources held in trust for retirees and beneficiaries covered by pension plans and other employee benefit trust funds of the MTA. Separate financial statements are presented for the fiduciary funds.

The following MTA fiduciary component units comprise the fiduciary activities of the MTA and are categorized within Pension and Other Employee Benefit Trust Funds.

#### • Pension Trust Funds

- MTA Defined Benefit Plan
- The Long Island Rail Road Company Plan for Additional Pensions ("Additional Plan")
- Manhattan and Bronx Surface Transit Operating Authority ("MaBSTOA Plan")
- Metro-North Commuter Railroad Company Cash Balance Plan ("MNR Cash Balance Plan")
- Other Employee Benefit Trust Funds
  - MTA Other Postemployment Benefits Plan ("OPEB" Plan)

These fiduciary statements of the fiduciary funds are prepared using the accrual basis of accounting and a measurement focus on the periodic determination of additions, deductions, and net position restricted for benefits. For reporting purposes, the financial results of the MNR Cash Balance Plan are not material and therefore not included in the fiduciary statements.

#### 2. SIGNIFICANT ACCOUNTING POLICIES

**Basis of Accounting** — The accompanying consolidated financial statements are prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America.

The MTA applies Governmental Accounting Standards Board ("GASB") Codification of Governmental Accounting and Financial Reporting Standards ("GASB Codification") Section P80, Proprietary Accounting and Financial Reporting.

New Accounting Standards — The MTA adopted the following GASB Statements for the year ended December 31, 2021:

GASB Statement No. 98, *The Annual Comprehensive Financial Report*, establishes the term *annual comprehensive financial report* and its acronym *ACFR*. That new term and acronym replace instances of *comprehensive annual financial report* and its acronym in generally accepted accounting principles for state and local governments. The requirements of this Statement are effective for fiscal years ending after December 15, 2021, with early application encouraged. The adoption of this Statement did not have an impact on the financial position, results of operations or cash flows of the MTA.

# Accounting Standards Issued but Not Yet Adopted

GASB has issued the following pronouncements that may affect the future financial position, results of operations, cash flows, or financial presentation of the MTA upon implementation. Management has not yet evaluated the effect of implementation of these standards.

GASB Statement No.	GASB Accounting Standard	MTA Required Year of Adoption
87	Leases	2022
91	Conduit Debt Obligations 2021	2022
92	Omnibus 2020	2022
93	Replacement of Interbank Offered Rates	2022
94	Public-Private and Public-Public Partnerships and Availability Payment Arrangements	2023
96	Subscription-based Information Technology Arrangements	2023



Use of Management Estimates — The preparation of the consolidated financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent assets and liabilities at the date of the consolidated financial statements, and the reported amounts of revenues and expenses during the reporting period. Significant estimates include the fair value of investments, allowances for doubtful accounts, valuation of derivative instruments, arbitrage rebate liability, accrued expenses and other liabilities, depreciable lives of capital assets, estimated liability arising from injuries to persons, pension benefits and other postemployment benefits. Actual results could differ significantly from those estimates.

**Principles of Consolidation** — The consolidated financial statements consist of MTAHQ, MTA Long Island Rail Road, MTA Metro-North Railroad, MTA Staten Island Railway, FMTAC, MTA Bus, MTA Construction and Development, MTA New York City Transit (including its subsidiary MaBSTOA), and MTA Bridges and Tunnels for years presented in the financial statements. All related group transactions have been eliminated for consolidation purposes.

**Net Position – Restricted for Other Purposes** – This category is classified within net position and includes net investments restricted for capital leases and MTA Bridges and Tunnels necessary reconstruction reserve.

**Investments** — The MTA Group's investment policies comply with the New York State Comptroller's guidelines for such operating and capital policies. Those policies permit investments in, among others, obligations of the U.S. Treasury, its agencies and instrumentalities, and repurchase agreements secured by such obligations. FMTAC's investment policies comply with New York State Comptroller guidelines and New York State Department of Insurance guidelines.

Investments expected to be utilized within a year of December 31st have been classified as current assets in the consolidated financial statements.

In accordance with the provisions of GASB Statement No. 72, *Fair Value Measurement and Application*, investments are recorded on the consolidated statement of net position at fair value, except for commercial paper, certificates of deposit, and repurchase agreements, which are recorded at amortized cost or contract value. All investment income, including changes in the fair value of investments, is reported as revenue on the consolidated statement of revenues, expenses and changes in net position. Fair values have been determined using quoted market values at December 31, 2021 and 2020.

Investment derivative contracts are reported at fair value using the income approach.

**Materials and Supplies** — Materials and supplies are valued at average cost, net of obsolescence reserve at December 31, 2021 and 2020 of \$213 and \$206, respectively.

**Prepaid Expenses and Other Current Assets** — Prepaid expenses and other current assets reflect advance payment of insurance premiums as well as farecard media related with ticket machines, WebTickets and AirTrain tickets.

Capital Assets — Properties and equipment are carried at cost and are depreciated on a straight-line basis over their estimated useful lives. Expenses for maintenance and repairs are charged to operations as incurred. Capital assets and improvements include all land, buildings, equipment, and infrastructure of the MTA having a minimum useful life of two years and having a cost of more than \$25 thousand. Capital assets are stated at historical cost, or at estimated historical cost based on appraisals, or on other acceptable methods when historical cost is not available. Capital leases are classified as capital assets in amounts equal to the lesser of the fair market value or the present value of net minimum lease payments at the inception of the lease. Accumulated depreciation and amortization are reported as reductions of capital assets. Depreciation is computed using the straight-line method based upon estimated useful lives of 25 to 50 years for buildings, 2 to 40 years for equipment, and 25 to 100 years for infrastructure. Capital lease assets and leasehold improvements are amortized over the term of the lease or the life of the asset whichever is less.

Pollution remediation projects —Pollution remediation costs have been expensed in accordance with the provisions of GASB Statement No. 49, *Accounting and Financial Reporting for Pollution Remediation Obligations* (See Note 12). An operating expense provision and corresponding liability measured at current value using the expected cash flow method has been recognized for certain pollution remediation obligations, which previously may not have been required to be recognized, have been recognized earlier than in the past or are no longer able to be capitalized as a component of a capital project. Pollution remediation obligations occur when any one of the following obligating events takes place: the MTA is in violation of a pollution prevention-related permit or license; an imminent threat to public health due to pollution exists; the MTA is named by a regulator as a responsible or potentially responsible party to participate in remediation; the MTA voluntarily commences or legally obligates itself to commence remediation efforts; or the MTA is named or there is evidence to indicate that it will be named in a lawsuit that compels participation in remediation activities.

**Operating Revenues** — Passenger Revenue and Tolls — Revenues from the sale of tickets, tokens, electronic toll collection system, and farecards are recognized as income when tickets or farecards are used. Tickets are assumed to be used in the month of purchase, with the exception of advance purchases of monthly and weekly tickets. When the farecards expire, revenue is recorded for the unused value of the farecards.



MTA Bridges and Tunnel has two toll rebate programs at the Verrazano-Narrows Bridge: the Staten Island Resident ("SIR") Rebate Program, available for residents of Staten Island participating in the SIR E-ZPass toll discount plan, and the Verrazano-Narrows Bridge Commercial Rebate Program ("VNB Commercial Rebate Program"), available for commercial vehicles making more than ten trips per month using the same New York Customer Service Center ("NYCSC") E-ZPass account. The VNB Commercial Rebate Program and SIR Rebate Program are funded by the State and MTA.

Capital Financing — The MTA has ongoing programs on behalf of its subsidiaries and affiliates, subject to approval by the New York State Metropolitan Transportation Authority Capital Program Review Board (the "State Review Board"), which are intended to improve public transportation in the New York Metropolitan area.

The federal government has a contingent equity interest in assets acquired by the MTA with federal funds and upon disposal of such assets, the federal government may have a right to its share of the proceeds from the sale. This provision has not been a substantial impediment to the MTA's operations.

Federal Transit Administration CARES Act — On March 27, 2020, the Coronavirus Aid, Relief and Economic Security Act, also known as the CARES Act, was signed into law in response to the economic fallout of the COVID-19 pandemic. The CARES Act through the Federal Transit Administration's ("FTA") formula funding provisions provided the MTA with \$4.010 billion of operating assistance. More detailed information about the CARES Act is presented in Note 14 to the consolidated financial statements.

Coronavirus Response and Relief Supplemental Appropriations Act of 2021 — On December 27, 2020, the Coronavirus Response and Relief Supplemental Appropriations Act of 2021 ("CRRSAA") was signed into law in response to the economic fallout of the COVID-19 pandemic. CRRSAA, through the FTA's formula funding provision provided the MTA with \$4.1 billion of operating assistance. Additional information about the CRRSAA is presented in Note 14 to the consolidated financial statements.

# **Non-operating Revenues**

Operating Assistance — The MTA Group receives, subject to annual appropriation, NYS operating assistance funds that are recognized as revenue after the NYS budget is approved and adopted. Generally, funds received under the NYS operating assistance program are fully matched by contributions from NYC and the seven other counties within the MTA's service area.

Mortgage Recording Taxes ("MRT") — Under NYS law, the MTA receives capital and operating assistance through a Mortgage Recording Tax ("MRT-1"). MRT-1 is collected by NYC and the seven other counties within the MTA's service area, at the rate of 0.25% of the debt secured by certain real estate mortgages. Effective September 2005, the rate was increased from 25 cents per 100 dollars of recorded mortgage to 30 cents per 100 dollars of recorded mortgage. The MTA also receives an additional Mortgage Recording Tax ("MRT-2") of 0.25% of certain mortgages secured by real estate improved or to be improved by structures containing one to nine dwelling units in the MTA's service area. MRT-1 and MRT-2 taxes are recognized as revenue based upon reported amounts of taxes collected.

- MRT-1 proceeds are initially used to pay MTAHQ's operating expenses. Remaining funds, if any, are allocated 55% to certain transit operations and 45% to the commuter railroads operations. The commuter railroad portion is first used to fund the NYS Suburban Highway Transportation Fund in an amount not to exceed \$20 annually (subject to the monies being returned under the conditions set forth in the governing statute if the Commuter Railroads are operating at a deficit).
- The first \$5 of the MRT-2 proceeds is transferred to the MTA Dutchess, Orange, and Rockland ("DOR") Fund (\$1.5 each for Dutchess and Orange Counties and \$2 for Rockland County). Additionally, the MTA must transfer to each County's fund an amount equal to the product of (i) the percentage by which each respective County's mortgage recording tax payments (both MRT-1 and MRT-2) to the MTA increased over such payments in 1989 and (ii) the base amount received by each county as described above. The counties do not receive any portion of the September 1, 2005 increase in MRT-1 from 25 cents per \$100 of recorded mortgage to 30 cents. As of December 31, 2021, the MTA paid to Dutchess, Orange and Rockland Counties the 2020 excess amounts of MRT-1 and MRT-2 totaling \$8.3.
- In addition, MTA New York City Transit receives operating assistance directly from NYC through a mortgage recording tax at the rate of 0.625% of the debt secured by certain real estate mortgages and through a property transfer tax at the rate of one percent of the assessed value (collectively referred to as "Urban Tax Subsidies") of certain properties.

Mobility Tax — In June of 2009, Chapter 25 of the NYS Laws of 2009 added Article 23, which establishes the Metropolitan Commuter Transportation Mobility Tax ("MCTMT"). The proceeds of this tax, administered by the New York State Tax Department, are to be distributed to the Metropolitan Transportation Authority. This tax is imposed on certain employers and self-employed individuals engaging in business within the metropolitan commuter transportation district which includes New York City, and the counties of Rockland, Nassau, Suffolk, Orange, Putnam, Dutchess, and Westchester. This Tax is imposed on certain employers that have payroll expenses within the Metropolitan Commuter Transportation District, to pay at a rate of 0.34% of an employer's payroll expenses for all covered employees for each calendar quarter. The employer is prohibited from deducting from wages or compensation of an employee any amount that represents all or any portion of



the MCTMT. The effective date of this tax was March 1, 2009 for employers other than public school district; September 1, 2009 for Public school districts and January 1, 2009 for individuals.

Supplemental Aid — In 2009, several amendments to the existing tax law provided the MTA supplemental revenues to be deposited into the AID Trust Account of the Metropolitan Transportation Authority Financial Assistance Fund established pursuant to Section 92 of the State Finance law. These supplemental revenues relate to: 1) supplemental learner permit/license fee in the Metropolitan Commuter Transportation District, 2) supplemental registration fee, 3) supplemental tax on every taxicab owner per taxicab ride on every ride that originated in the City of New York and terminates anywhere within the territorial boundaries of the Metropolitan Commuter Transportation District, and 4) supplemental tax on passenger car rental. This Supplemental Aid Tax is provided to the MTA in conjunction with the Mobility Tax.

Dedicated Taxes — Under NYS law, subject to annual appropriation, the MTA receives operating assistance through a portion of the Dedicated Mass Transportation Trust Fund ("MTTF") and Metropolitan Mass Transportation Operating Assistance Fund ("MMTOA"). The MTTF receipts consist of a portion of the revenues derived from certain business privilege taxes imposed by the State on petroleum businesses, a portion of the motor fuel tax on gasoline and diesel fuel, and a portion of certain motor vehicle fees, including registration and non-registration fees. Effective October 1, 2005, the State increased the amount of motor vehicle fees deposited into the MTTF for the benefit of the MTA. MTTF receipts are applied first to meet certain debt service requirements or obligations and second to the Transit System (defined as MTA New York City Transit and MaBSTOA), MTA Staten Island Railway and the Commuter Railroads to pay operating and capital costs. The MMTOA receipts are comprised of 0.375% regional sales tax, regional franchise tax surcharge, a portion of taxes on certain transportation and transmission companies, and an additional portion of the business privilege tax imposed on petroleum businesses. MMTOA receipts, to the extent that MTTF receipts are not sufficient to meet debt service requirements, will also be applied to certain debt service obligations, and secondly to operating and capital costs of the Transit System, and the Commuter Railroads.

The State Legislature enacts in an annual budget bill for each state fiscal year an appropriation to the MTA Dedicated Tax Fund for the then-current state fiscal year and an appropriation of the amounts projected by the Director of the Budget of the State to be deposited in the MTA Dedicated Tax Fund for the next succeeding state fiscal year. The assistance deposited into the MTTF is required by law to be allocated, after provision for debt service on Dedicated Tax Fund Bonds (See Note 7), 85% to certain transit operations (not including MTA Bus) and 15% to the commuter railroads operations. Revenues from this funding source are recognized based upon amounts of tax reported as collected by NYS, to the extent of the appropriation.

Build America Bond Subsidy — The MTA is receiving cash subsidy payments from the United States Treasury equal to 35% of the interest payable on the Series of Bonds issued as "Build America Bonds" and authorized by the Recovery Act. The Internal Revenue Code of 1986 imposes requirements that MTA must meet and continue to meet after the issuance in order to receive the cash subsidy payments. The interest on these bonds is fully subject to Federal income taxation to the bondholder.

Congestion Zone Surcharges – In April 2018, the approved 2018-2019 New York State Budget enacted legislation that provided additional sources of revenue, in the form of surcharges and fines, as defined by Article 29-C, Chapter 59 of the Tax Law, to address the financial needs of the MTA. Beginning on January 1, 2019, the legislation imposed the following:

- A surcharge of \$2.75 on for-hire transportation trips provided by motor vehicles carrying passengers for hire (or \$2.50 in the case of taxicabs that are subject to the \$0.50 cents tax on hailed trips that are part of the MTA Aid Trust Account Receipts), other than pool vehicles, ambulance and buses, on each trip that (1) originates and terminates south of and excluding 96th Street in the City of New York, in the Borough of Manhattan (the "Congestion Zone"), (2) originates anywhere in NYS and terminates within the Congestion Zone, (3) originates in the Congestion Zone and terminates anywhere in NYS, or (4) originates anywhere in NYS, enters into the Congestion Zone while in transit, and terminates anywhere in NYS.
- A surcharge of \$0.75 cents for each person who both enters and exits a pool vehicle in NYS and who is picked up in, dropped off in, or travels through the Congestion Zone.

The Congestion Zone Surcharges do not apply to transportation services administered by or on behalf of MTA, including paratransit services.

The April 2018 legislation also created the New York City Transportation Assistance Fund, held by MTA. The fund consists of the three sub-accounts, the Subway Action Plan Account, the Outer Borough Transportation Account and the General Transportation Account.

- Subway Action Plan Account Funds in this account may be used exclusively for funding the operating and capital costs, and debt service associated with the Subway Action Plan.
- Outer Borough Transportation Account Funds in this account may be used exclusively for funding (1) the operating and capital costs of, and debt service associated with, the MTA facilities, equipment and services in the counties of Bronx, Kings, Queens and Richmond, and any projects improving transportation connections from such counties to Manhattan, or (2) a toll reduction program for any crossing under the jurisdiction of MTA or MTA Bridges and Tunnels.



General Transportation Account - Funds in this account may be used exclusively for funding the operating and capital
costs of MTA. In each case, funds may be used for various operations and capital needs or for debt service and reserve
requirements.

Dedicated Revenues - In April 2019, the approved 2019-2020 New York State Budget enacted legislation that included new, dedicated revenue streams for the MTA. The additional sources of revenue include a Central Business District Tolling Program. The Central Business District Tolling Program will assess a toll for vehicles entering the Central Business District, defined as south of 60th Street in Manhattan, but will exclude vehicles traveling on the FDR Drive or the West Side Highway, which includes the Battery Park underpass and or any surface roadway portion of the Hugh L. Carey Tunnel that connects to West Street. The Federal Highway Administration has provided MTA guidance to proceed with an environmental assessment, which will allow for the congestion pricing program to proceed.

The enacted State Budget also included provisions for a new Real Property Transfer Tax Surcharge (referred to as the "Mansion Tax") on high-priced residential property sales in New York City and an Internet Marketplace Sales Tax. The Mansion Tax went into effect on July 1, 2019 and increases the transfer tax on a sliding scale by a quarter percent starting at \$2, with a combined top rate of 4.15%, on the sale of New York City residential properties valued at \$25 or above. The Internet Marketplace Sales Tax went into effect on June 1, 2019 and requires internet marketplace providers to collect and remit sales tax from out of state retailers on their sites that have gross receipts exceeding \$500,000 (dollars) and delivering more than one hundred sales into New York State in the previous four quarters. The sales tax will be collected at the normal rate of 4% plus local sales tax.

The proceeds from the Central Business District Tolling Program, the Internet Marketplace Sales Tax and the Real Property Transfer Tax Surcharge will be deposited into the MTA's Central Business District Tolling Program capital lock box and may only be used to support financing of the 2020-2024 Capital Program.

Operating Subsidies Recoverable from Connecticut Department of Transportation ("CDOT") — A portion of the deficit from operations relating to MTA Metro-North Railroad's New Haven line is recoverable from CDOT. Under the terms of a renewed Service Agreement, which began on January 1, 2015, and the 1998 resolution of an arbitration proceeding initiated by the State of Connecticut, CDOT pays 100.0% of the net operating deficit of MTA Metro-North Railroad's branch lines in Connecticut (New Canaan, Danbury, and Waterbury), 65.0% of the New Haven mainline operating deficit, and 54.3% of the Grand Central Terminal ("GCT") operating deficit. The New Haven line's share of the net operating deficit for the use of GCT is comprised of a fixed fee, calculated using several years as a base, with annual increases for inflation, and the actual cost of operating GCT's North End Access beginning in 1999. The Service Agreement also provides that CDOT pay 100% of the cost of non-movable capital assets located in Connecticut, 100% of movable capital assets to be used primarily on the branch lines and 65% of the cost of other movable capital assets allocated to the New Haven line. Remaining funding for New Haven line capital assets is provided by the MTA. Capital assets completely funded by CDOT are not reflected in these financial statements, as ownership is retained by CDOT. The Service Agreement provides that final billings for each year be subject to audit by CDOT. The audits of 2020 and 2019 billings are still open.

Reimbursement of Expenses — The cost of operating and maintaining the passenger stations of the Commuter Railroads in NYS is assessable by the MTA to New York City and the other counties in which such stations are located for each NYS fiscal year ending December 31, under provisions of the NYS Public Authorities Law. This funding is recognized as revenue based upon an amount, fixed by statute, for the costs to operate and maintain passenger stations and is revised annually by the increase or decrease of the regional Consumer Price Index.

In 1995, New York City ceased reimbursing the MTA for the full costs of the free/reduced fare program for students. Beginning in 1996, New York State and New York City each began paying \$45 per annum to the MTA toward the cost of the program. In 2009, New York State reduced their \$45 reimbursement to \$6.3. Beginning in 2010, New York State increased their annual commitment to \$25.3 while New York City's annual commitment remained at \$45. These commitments have been met by both New York State and New York City for both 2020 and 2021. For the year ended December 31, 2021, the MTA received \$90.3 from New York State and New York City combined, which include \$5.0 due from New York State and \$15.0 due from New York City both for the year 2020.

Prior to April 1995, New York City was obligated to reimburse MTA New York City Transit for the transit police force. As a result of the April 1995 merger of the transit police force into the New York City Police Department, New York City no longer reimburses MTA New York City Transit for the costs of policing the Transit System on an ongoing basis since policing of the Transit System is being carried out by the New York City Police Department at New York City's expense. MTA New York City Transit continues to be responsible for certain capital costs and support services related to such police activities, a portion of which is reimbursed by New York City. MTA New York City Transit received approximately \$2.1 and \$3.4 for the years ended December 31, 2021 and 2020, respectively, from New York City for the reimbursement of transit police costs.

MTAHQ bills MTA Metro-North Railroad through its consolidated services for MTA police costs in the New Haven line of which MTA Metro-North Railroad recovers approximately 65% from Connecticut Department of Transportation. The amounts billed for the years ended December 31, 2021 and 2020 were \$23.4 and \$21.0, respectively. The amounts recovered for the years ended December 31, 2021 and 2020 were approximately \$15.2 and \$13.6, respectively.



Federal law and regulations require a paratransit system for passengers who are not able to ride the buses and trains because of their disabilities. Pursuant to an agreement between New York City and the MTA, MTA New York City Transit, effective July 1, 1993, assumed operating responsibility for all paratransit service required by the Americans with Disability Act of 1990. Services are provided by private vendors under contract with MTA New York City Transit. New York City reimburses MTA New York City Transit for the lesser of 33% of net paratransit operating expenses defined as labor, transportation, and administrative costs less fare revenues and 6% of gross urban tax proceeds as described above or, an amount that is 20% greater than the amount paid by New York City for the preceding calendar year. Fare revenues and New York City reimbursement aggregated approximately \$226.5 in the year ended December 31, 2021, and \$180.6 in the year ended December 31, 2020. Total paratransit expenses, including paratransit service contracts, were \$415.6 and \$404.3 in 2021 and 2020, respectively.

Grants and Appropriations — Grants and appropriations for capital projects are recorded when requests are submitted to the funding agencies for reimbursement of capital expenditures meeting eligibility requirements. These amounts are reported separately after Net Non-operating Revenues in the Statements of Revenues, Expenses, and Changes in Net Position.

Operating and Non-operating Expenses — Operating and non-operating expenses are recognized in the accounting period in which the liability is incurred. All expenses related to operating the MTA (e.g. salaries, insurance, depreciation, etc.) are reported as operating expenses. All other expenses (e.g. interest on long-term debt, subsidies paid to counties, etc.) are reported as non-operating expenses.

Liability Insurance — FMTAC, an insurance captive subsidiary of MTA, operates a liability insurance program ("ELF") that insures certain claims in excess of the self-insured retention limits of the agencies on both a retrospective (claims arising from incidents that occurred before October 31, 2003) and prospective (claims arising from incidents that occurred on or after October 31, 2003) basis. For claims arising from incidents that occurred on or after November 1, 2006, but before November 1, 2009, the self-insured retention limits are: \$8 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road, and MTA Metro-North Railroad; \$2.3 for MTA Long Island Bus and MTA Staten Island Railway; and \$1.6 for MTAHQ and MTA Bridges and Tunnels. For claims arising from incidents that occurred on or after November 1, 2009, but before November 1, 2012, the self-insured retention limits are: \$9 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road and MTA Metro-North Railroad; \$2.6 for MTA Long Island Bus and MTA Staten Island Railway; and \$1.9 for MTAHQ and MTA Bridges and Tunnels. Effective November 1, 2012, the self-insured retention limits for ELF were increased to the following amounts: \$10 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road and MTA Metro-North Railroad; \$3 for MTA Staten Island Railway; and \$2.6 for MTAHQ and MTA Bridges and Tunnels. Effective October 31, 2015, the self-insured retention limits for ELF were increased to the following amounts: \$11 for MTA New York City Transit, MaBSTOA, MTA Bus, MTA Long Island Rail Road and MTA Metro-North Railroad; \$3.2 for MTA Staten Island Railway, MTAHQ and MTA Bridges and Tunnels. The maximum amount of claims arising out of any one occurrence is the total assets of the program available for claims, but in no event greater than \$50. The retrospective portion contains the same insurance agreements, participant retentions, and limits as existed under the ELF program for occurrences happening on or before October 30, 2003. On a prospective basis, FMTAC issues insurance policies indemnifying the other MTA Group entities above their specifically assigned self-insured retention with a limit of \$50 per occurrence with a \$50 annual aggregate. FMTAC charges appropriate annual premiums based on loss experience and exposure analysis to maintain the fiscal viability of the program. On December 31, 2021 and December 31, 2020, the balance of the assets in this program was \$192.67 and \$182.7, respectively.

MTA also maintains an All-Agency Excess Liability Insurance Policy that affords the MTA Group additional coverage limits of \$357.5 for a total limit of \$407.5 (\$357.5 excess of \$50). In certain circumstances, when the assets in the program described in the preceding paragraph are exhausted due to payment of claims, the All-Agency Excess Liability Insurance will assume the coverage position of \$50.

On March 1, 2021, the "nonrevenue fleet" automobile liability policy program was renewed. This program provides third-party auto liability insurance protection for MTA Long Island Rail Road, MTA Staten Island Railway, MTA Police, MTA Metro-North Railroad, MTA Inspector General, MTA Construction & Development Company and MTA Headquarters. The program limit is \$11 per occurrence on a combined single limit with a \$1 per occurrence deductible. Primary limits of \$6 were procured through the commercial marketplace. Excess limits of \$5 were procured through FMTAC. FMTAC renewed its deductible buy back policy, where it assumes the liability of the agencies for their deductible.

On March 1, 2021, the "Access-A-Ride" automobile liability policy program was renewed. This program provides third-party auto liability insurance protection for the MTA New York City Transit's Access-A-Ride program, including the contracted operators. This policy provides \$1 per occurrence limit excess of a \$2 self-insured retention.

On December 15, 2021, FMTAC renewed the primary coverage on the Station Liability and Force Account liability policies \$11 per occurrence loss for MTA Metro-North Railroad and MTA Long Island Rail Road.

**Property Insurance** — Effective May 1, 2021, FMTAC renewed the all-agency property insurance program. For the annual period commencing May 1, 2021, FMTAC directly insures property damage claims of the Related Entities in excess of a \$25



per occurrence deductible, subject to an annual \$75 aggregate deductible. The total All Risk program annual limit is \$500 per occurrence and in the annual aggregate for Flood and Earthquake covering property of the Related Entities collectively. FMTAC is reinsured in the domestic, Asian, London, European and Bermuda reinsurance markets for this coverage.

Losses occurring after exhaustion of the deductible aggregate are subject to a deductible of \$7.5 per occurrence. The property insurance policy provides replacement cost coverage for all risks (including Earthquake, Flood and Wind) of direct physical loss or damage to all real and personal property, with minor exceptions. The policy also provides extra expense and business interruption coverage.

Supplementing the \$500 per occurrence noted above, FMTAC's property insurance program has been expanded to include a further layer of \$100 of fully collateralized earthquake coverage for an event of a certain index value and for storm surge coverage for losses from storm surges that surpass specified trigger levels in the New York Harbor or Long Island Sound and are associated with named storms that occur at any point in the three year period from May 12, 2020 to April 30, 2023. The expanded protection is reinsured by MetroCat Re Ltd. 2020-1, a Bermuda special purpose insurer independent from the MTA and formed to provide FMTAC with capital markets based property reinsurance. The MetroCat Re Ltd. 2020-1 reinsurance policy is fully collateralized by a Regulation 114 trust invested in U.S. Treasury Money Market Funds. The additional coverage provided is parametric and available for storm surge losses resulting from a storm that causes water levels that reach the specified index values, and also for an earthquake event of a certain index value.

With respect to acts of terrorism, FMTAC provides direct coverage that is reinsured by the United States Government for 80% of "certified" losses, as covered by the Terrorism Risk Insurance Program Reauthorization Act ("TRIPRA") of 2019. The remaining 20% of the Related Entities' losses arising from an act of terrorism would be covered under the additional terrorism policy described below. No federal compensation will be paid unless the aggregate industry insured losses exceed a trigger of \$200. The United States government's reinsurance is in place through December 31, 2027.

To supplement the reinsurance to FMTAC through the TRIPRA, MTA obtained an additional commercial reinsurance policy with various reinsurance carriers in the domestic, London and European marketplaces. That policy provides coverage for (1) 20% of any "certified" act of terrorism up to a maximum recovery of \$215 for any one occurrence and in the annual aggregate (2) the TRIPRA FMTAC captive deductible (per occurrence and on an aggregated basis) that applies when recovering under the "certified" acts of terrorism insurance or (3) 100% of any "certified" terrorism loss which exceeds \$5 and less than the \$200 TRIPRA trigger up to a maximum recovery of \$200 for any occurrence and in the annual aggregate.

Additionally, MTA purchases coverage for acts of terrorism which are not certified under TRIPRA to a maximum of \$215. Recovery under the terrorism policy is subject to a deductible of \$25 per occurrence and \$75 in the annual aggregate in the event of multiple losses during the policy year. Should the Related Entities' deductible in any one year exceed \$75 future losses in that policy year are subject to a deductible of \$7.5. The terrorism coverages expire at midnight on May 1, 2023.

**Pension Plans** — In accordance with the provisions of GASB Statement No. 68, *Accounting and Financial Reporting for Pensions*, the MTA recognizes a net pension liability for each qualified pension plan in which it participates, which represents the excess of the total pension liability over the fiduciary net position of the qualified pension plan, or the MTA's proportionate share thereof in the case of a cost-sharing multiple-employer plan, measured as of the measurement date of each of the qualified pension plans. Changes in the net pension liability during the year are recorded as pension expense, or as deferred inflows of resources or deferred outflows of resources depending on the nature of the change, in the year incurred. Those changes in net pension liability that are recorded as deferred inflows of resources or deferred outflows of resources that arise from changes in actuarial assumptions or other inputs and differences between expected or actual experience are amortized over the weighted average remaining service life of all participants in the respective qualified pension plan and recorded as a component of pension expense beginning with the year in which they are incurred. Projected earnings on qualified pension plan investments are recognized as a component of pension expense. Differences between projected and actual investment earnings are reported as deferred inflows of resources or deferred outflows of resources and amortized as a component of pension expense on a closed basis over a five-year period beginning with the year in which the difference occurred.

**Postemployment Benefits Other Than Pensions** — In accordance with the provisions of GASB Statement No. 75, *Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions* and GASB Statement No. 85, *Omnibus* for the OPEB Plan, the MTA recognizes a net OPEB liability, which represents the excess of the total OPEB liability over the fiduciary net position of the OPEB Plan, measured as of the measurement date of the plan.

Changes in the net OPEB liability during the year are recorded as OPEB expense, or as deferred outflows of resources or deferred inflows of resources relating to OPEB depending on the nature of the change, in the year incurred. Changes in net OPEB liability that are recorded as deferred outflows of resources or deferred inflows of resources that arise from changes in actuarial assumptions and differences between expected or actual experience are amortized over the weighted average remaining service life of all participants in the OPEB plan and recorded as a component of OPEB expense beginning with the year in which they are incurred. Projected earnings on qualified OPEB plan investments are recognized as a component of OPEB expenses. Differences between projected and actual investment earnings are reported as deferred outflows of resources



or deferred inflow of resources as a component of OPEB expense on a closed basis over a five-year period beginning with the year in which the difference occurred.

# 3. CASH AND INVESTMENTS

*Cash* - The Bank balances are insured up to \$250 thousand in the aggregate by the Federal Deposit Insurance Corporation ("FDIC") for each bank in which funds are deposited. As of December 31, 2021, restricted cash represents \$256 received by the MTA from the State of New York and New York City for the Subway Action Plan and other capital projects.

Cash, including deposits in transit, consists of the following at December 31, 2021 and 2020 (in millions):

	2021			2020				
	_	Carrying		Bank		Carrying		Bank
	_	Amount		Balance		Amount		Balance
FDIC insured or collateralized deposits	\$	281	\$	280	\$	572	\$	570
Uninsured and not collateralized		501		482		454		437
Total Balance	\$	782	\$	762	\$	1,026	\$	1,007

All collateralized deposits are held by the MTA or its agent in the MTA's name.

The MTA, on behalf of itself, its affiliates and subsidiaries, invests funds which are not immediately required for the MTA's operations in securities permitted by the New York State Public Authorities Law, including repurchase agreements collateralized by U.S. Treasury securities, U.S. Treasury notes, and U.S. Treasury zero coupon bonds.

Custodial credit risk for deposits is the risk that, in the event of the failure of a depository financial institution, the MTA will not be able to recover the value of its deposits. While the MTA does not have a formal deposit policy for custodial credit risk, New York State statues govern the MTA's investment policies. The MTA's uninsured and uncollateralized deposits are primarily held by commercial banks in the metropolitan New York area and are subject to the credit risks of those institutions.

*Investments* - MTA holds most of its investments at a custodian bank. The custodian must meet certain banking institution criteria enumerated in MTA's Investment Guidelines. The Investment Guidelines also require the Treasury Division to hold at least \$100 of its portfolio with a separate emergency custodian bank. The purpose of this deposit is in the event that the MTA's main custodian cannot execute transactions due to an emergency outside of the custodian's control, the MTA has an immediate alternate source of liquidity.

The MTA categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

The MTA had the following recurring fair value measurements as of December 31, 2021 and 2020 (in millions):

Investments by fair value level		ecember 31,		December 31,		Fair Value Measurements		D	December 31,	Fair Value M	eas	urements
	2	021		Level 1		Level 2		2020	Level 1		Level 2	
Debt Securities:												
U.S. treasury securities	\$	10,695	\$	10,327	\$	368	\$	8,537	\$ 8,261	\$	276	
U.S. government agency		325		-		325		503	-		503	
Commercial paper		1,615		-		1,615		245	-		245	
Asset-backed securities		23		-		23		41	-		41	
Commercial mortgage-backed securities		166		-		166		150	-		150	
Foreign bonds		20		20		-		27	27		_	
Corporate bonds		135		135		-		193	193		_	
U.S. treasury securities		197		197		-		200	200		_	
U.S. government agency		141		76		65		145	78		67	
Repurchase agreements		274		274		-		119	119		_	
Equity securities		1		1		_		-	-		-	
Total investments by fair value level		13,592	\$	11,030	\$	2,562		10,160	\$ 8,878	\$	1,282	
Capital leases		113	_					113				
Total Investments	\$	13,705					\$	10,273				

Investments classified as Level 1 of the fair value hierarchy, totaling \$11,030 and \$8,878 as of December 31, 2021 and 2020, respectively, are valued using quoted prices in active markets. Fair values include accrued interest to the extent that interest is included in the carrying amounts. Accrued interest on investments other than Treasury bills and coupons is included in other receivables on the statement of net position. The MTA's investment policy states that securities underlying repurchase agreements must have a fair value at least equal to the cost of the investment.



U.S. Government agency securities totaling \$390 and \$570, U.S. treasury securities totaling \$368 and \$276, commercial paper totaling \$1,615 and \$245, asset-backed securities totaling \$23 and \$41, and commercial mortgage-backed securities totaling \$166 and \$150, as of December 31, 2021 and 2020, respectively, classified in Level 2 of the fair value hierarchy, are valued using matrix pricing techniques maintained by a third party pricing service. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices and indices. Fair value is defined as the quoted market value on the last trading day of the period. These prices are obtained from a third party pricing service or our custodian bank.

In connection with certain lease transactions described in Note 8, the MTA has purchased securities or entered into payment undertaking, letter of credit, or similar type agreements or instruments (guaranteed investment contracts) with financial institutions, which generate sufficient proceeds to make basic rent and purchase option payments under the terms of the leases. If the obligors do not perform, the MTA may have an obligation to make the related rent payments.

All investments, other than the investments restricted for capital lease obligations, are either insured or registered and held by the MTA or its agent in the MTA's name. Investments restricted for capital lease obligations are either held by MTA or its agent in the MTA's name or held by a custodian as collateral for MTA's obligation to make rent payments under capital lease obligations. Investments had weighted average yields of 1.14% and 1.67% for the years ended December 31, 2021 and 2020, respectively.

Credit Risk — At December 31, 2021 and 2020, the following credit quality rating has been assigned to MTA investments by a nationally recognized rating organization (in millions):

Quality Rating Standard & Poor's	December 31, 2021	Percent of Portfolio	December 31, 2020	Percent of Portfolio	
A-1+	\$ 45	0%	\$ 202	2%	
A-1	1,615	12%	245	2%	
AAA	303	2%	310	3%	
AA+	65	1%	67	1%	
AA	29	0%	42	0%	
A	72	1%	118	1%	
A-	147	1%	163	2%	
BBB	60	0%	68	1%	
Not rated	286	2%	130	1%	
U.S. Government	10,969	81%	8,815	87%	
Total	13,591	100%	10,160	100%	
Equities and capital leases	114		113		
Total investment	\$ 13,705		\$ 10,273		

**Interest Rate Risk** — Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of the investment. While the MTA does not have a formal policy for interest rate risk, New York State statutes govern the MTA's investment policy. Duration is a measure of interest rate risk. The greater the duration of a bond or portfolio of bonds, the greater its price volatility will be in response to a change in interest rate risk and vice versa. Duration is an indicator of a bond price's sensitivity to a 100 basis point change in interest rates.

	December 31, 2021			December 2020	31,
			Duration		Duration
(In millions)		Fair Value	(in years)	Fair Value	(in years)
U.S. treasury securities	\$	10,697	5.14	\$ 8,537	3.33
U.S. government agency		324	5.67	503	4.99
Tax benefit lease investments		337	-	345	-
Repurchase agreement		274	-	119	-
Commercial paper		1,615	-	245	-
Asset-backed securities (1)		23	3.83	41	2.36
Commercial mortgage-backed securities (1)		166	4.29	150	4.24
Foreign bonds (1)		20	7.08	27	7.06
Corporates (1)		135	6.92	193	6.12
Total fair value		13,591		10,160	
Modified duration			4.32		3.25
Equities (1)		1		-	
Investments with no duration reported		113		113	
Total investments	\$	13,705		\$ 10,273	

<sup>(1)</sup> These securities are only included in the FMTAC portfolio.



MTA is a public benefit corporation established under the New York Public Authorities Law. MTA's Treasury Division is responsible for the investment management of the funds of the component units. The investment activity covers all operating and capital funds, including bond proceeds, and the activity is governed by State statutes, bond resolutions and the Board-adopted investment guidelines (the "Investment Guidelines"). The MTA Act currently permits the Related Entities to invest in the following general types of obligations:

- obligations of the State or the United States Government;
- obligations of which the principal and interest are guaranteed by the State or the United States government;
- obligations issued or guaranteed by certain Federal agencies;
- repurchase agreements fully collateralized by the obligations of the foregoing United States Government and Federal agencies;
- certain certificates of deposit of banks or trust companies in the State;
- certain banker's acceptances with a maturity of 90 days or less;
- certain commercial paper;
- certain municipal obligations; and
- certain mutual funds up to \$10 in the aggregate.

The MTA adopted NYS Statutory Requirements with respect to credit risk of its investments, which include, but are not limited to the following sections:

- i. Public Authorities Law Sections 1265(4) (MTA), 1204(19) (MTA New York City Transit Authority) and 553(21) (MTA Bridges and Tunnels);
- ii. Public Authorities Law Section 2925 Investment of funds by public authorities and public benefit corporations; general provisions; and
- iii. State Finance Law Article 15 EXCELSIOR LINKED DEPOSIT ACT.

MTA Investment Guidelines limit the dollar amount invested in banker acceptances, commercial paper, and obligations issued or guaranteed by certain Federal agencies to \$250 at cost. There are no dollar limits on the purchase of obligations of the United States government, the State or obligations the principal and interest of which are guaranteed by the State or the United States government. Investments in collateralized repurchase agreements are limited by dealer or bank's capital. MTA can invest no greater than \$300 with a bank or dealer rated in Tier 1 (i.e. \$1 billion or more of capital).

FMTAC is created as a MTA subsidiary and is licensed as a captive direct insurer and reinsurer by the New York State Department of Insurance. As such, FMTAC is responsible for the investment management of its funds. The investment activity is governed by State statutes and the FMTAC Board adopted investment guidelines. The minimum surplus to policyholders and reserve instruments are invested in the following investments:

- obligations of the United States or any agency thereof provided such agency obligations are guaranteed as to principal and interest by the United States;
- direct obligations of the State or of any county, district or municipality thereof;
- any state, territory, possession or any other governmental unit of the United States;
- certain bonds of agencies or instrumentalities of any state, territory, possession or any other governmental unit of the United States;
- the obligations of a solvent American institution which are rated investment grade or higher (or the equivalent thereto) by a securities rating agency; and
- certain mortgage backed securities in amounts no greater than five percent of FMTAC's admitted assets.

FMTAC may also invest non-reserve instruments in a broader range of investments including the following general types of obligations:

- certain equities; and
- certain mutual funds.

FMTAC is prohibited from making the following investments:

• investment in an insolvent entity;



- any investment as a general partner; and
- any investment found to be against public policy.

FMTAC investment guidelines do include other investments, but FMTAC has limited itself to the above permissible investments at this time.

#### 4. EMPLOYEE BENEFITS

Pensions — The MTA Related Groups sponsor and participate in several defined benefit pension plans for their employees, the Long Island Railroad Company Plan for Additional Pensions (the "Additional Plan"), the Manhattan and Bronx Surface Transit Operating Authority Pension Plan (the "MaBSTOA Plan"), the Metro-North Commuter Railroad Company Cash Balance Plan (the "MNR Cash Balance Plan"), the Metropolitan Transportation Authority Defined Benefit Plan (the "MTA Defined Benefit Plan"), the New York City Employees' Retirement System ("NYCERS"), and the New York State and Local Employees' Retirement System ("NYSLERS"). A brief description of each of these pension plans follows:

#### Plan Descriptions

#### 1. Additional Plan —

The Additional Plan is a single-employer defined benefit pension plan that provides retirement, disability and survivor benefits to members and beneficiaries. The Additional Plan covers MTA Long Island Rail Road employees hired effective July 1, 1971 and prior to January 1, 1988. The Additional Plan's activities, including establishing and amending contributions and benefits are administered by the Board of Managers of Pensions. The Additional Plan is a governmental plan and accordingly, is not subject to the funding and other requirements of the Employee Retirement Income Security Act of 1974 ("ERISA"). The Additional Plan is a closed plan.

The Board of Managers of Pensions is comprised of the Chairman of the MTA, MTA Chief Financial Officer, MTA Director of Labor Relations and the agency head of each participating Employer or the designee of a member of the Board of Managers. The Additional Plan for Additional Pensions may be amended by action of the MTA Board. The Additional Plan is a fiduciary component unit of the MTA and is reflected in the Pension and Other Employee Benefit Trust Funds section of the MTA's basic financial statements.

The pension plan has a separately issued financial statement that is publicly available and contains required descriptions and supplemental information regarding the employee benefit plan. The financial statements may be obtained at www. mta.info or by writing to, Long Island Rail Road, Controller, 93-02 Sutphin Boulevard – mail code 1421, Jamaica, New York 11435.

# 2. MaBSTOA Plan —

The MaBSTOA Plan is a multi-employer defined benefit retirement plan administered by MTA New York City Transit covering employees of MaBSTOA and MTA Headquarters. Prior to January 1, 2020, this was a single employer defined benefit retirement plan covering only MaBSTOA employees. Employees of MaBSTOA and MTA Headquarters are specifically excluded from participating in the New York City Employees' Retirement System (NYCERS). The Plan provides retirement as well as death, accident and disability benefits. Effective January 1, 1999, in order to afford managerial and non-represented MaBSTOA employees the same pension rights as like title employees in the MTA New York City Transit Authority, membership in the MaBSTOA Plan is optional.

The Board of Administration, established in 1963, determines the eligibility of employees and beneficiaries for retirement and death benefits. The MaBSTOA Plan assigns authority to the MaBSTOA Board to modify, amend or restrict the MaBSTOA Plan or to discontinue it altogether, subject, however, to the obligations under its collective bargaining agreements. The Board is composed of five members: two representatives from the Transport Workers Union, Local 100 ("TWU") and three employer representatives. The MaBSTOA Plan is a fiduciary component unit of the MTA and is reflected in the Pension and Other Employee Benefit Trust Funds section of the MTA's basic financial statements.

The pension plan issues a publicly available financial report that includes financial statements and required supplementary information. This report may be obtained by writing to MTA Comptroller, 2 Broadway, 15th Floor, New York, New York, 10004 or at www.mta.info.

#### 3. MNR Cash Balance Plan —

The MNR Cash Balance Plan is a single employer, defined benefit pension plan administered by MTA Metro-North Railroad. The MNR Cash Balance Plan covers non-collectively bargained employees, formerly employed by Conrail, who joined MTA Metro-North Railroad as management employees between January 1 and June 30, 1983, and were still employed as of December 31, 1988. Effective January 1, 1989, these management employees were covered under the Metro-North Commuter Railroad Defined Contribution Plan for Management Employees (the "Management Plan") and the MNR Cash Balance Plan was closed to new participants. The assets of the Management Plan were merged



with the Metropolitan Transportation Authority Defined Benefit Plan for Non-Represented Employees (now titled as the Metropolitan Transportation Authority Defined Benefit Pension Plan) as of the asset transfer date of July 14, 1995. The MNR Cash Balance Plan is designed to satisfy the applicable requirements for governmental plans under Section 401(a) and 501(a) of the Internal Revenue Code. Accordingly, the MNR Cash Balance Plan is tax-exempt and is not subject to the provisions of ERISA.

The MTA Board of Trustees appoints a Board of Managers of Pensions consisting of five individuals who may, but need not, be officers or employees of the company. The Board of Managers control and manage the operation and administration of the MNR Cash Balance Plan's activities, including establishing and amending contributions and benefits.

Further information about the MNR Cash Balance Plan is more fully described in the separately issued financial statements that can be obtained by writing to MTA Comptroller, 2 Broadway, 15th Floor, New York, New York, 10004. These statements are also available at www.mta.info.

### 4. MTA Defined Benefit Plan —

The MTA Defined Benefit Pension Plan (the "MTA Plan" or the "Plan") is a cost sharing, multiple-employer defined benefit pension plan. The Plan covers certain MTA Long Island Railroad non-represented employees hired after January 1, 1988, MTA Metro-North Railroad non-represented employees, certain employees of the former MTA Long Island Bus hired prior to January 24, 1983, MTA Police, MTA Long Island Railroad represented employees hired after December 31, 1987, certain MTA Metro-North Railroad represented employees, MTA Staten Island Railway represented and non-represented employees and certain employees of the MTA Bus Company ("MTA Bus"). The MTA, MTA Long Island Railroad, MTA Metro-North Railroad, MTA Staten Island Railway and MTA Bus contribute to the MTA Plan, which offers distinct retirement, disability retirement, and death benefit programs for their covered employees and beneficiaries.

The MTA Defined Benefit Plan is administered by the Board of Managers of Pensions. The MTA Plan, including benefits and contributions, may be amended by action of the MTA Board. The MTA Defined Benefit Plan is a fiduciary component unit of the MTA and is reflected in the Pension and Other Employee Benefit Trust Funds section of the MTA's basic financial statements.

The pension plan issues a publicly available financial report that includes financial statements and required supplementary information. This report may be obtained by writing to the MTA Comptroller, 2 Broadway, 15th Floor, New York, New York, 10004 or at www.mta.info.

#### 5. NYCERS—

NYCERS is a cost-sharing, multiple-employer retirement system for employees of The City of New York ("The City") and certain other governmental units whose employees are not otherwise members of The City's four other pension systems. NYCERS administers the New York City Employees Retirement System qualified pension plan.

NYCERS was established by an act of the Legislature of the State of New York under Chapter 427 of the Laws of 1920. NYCERS functions in accordance with the governing statutes contained in the New York State Retirement and Social Security Law ("RSSL"), and the Administrative Code of the City of New York ("ACNY"), which are the basis by which benefit terms and employer and member contribution requirements are established and amended. The head of the retirement system is the Board of Trustees. NYCERS is a fiduciary component unit of The City and is in the Pension and Other Employee Benefit Trust Funds section of The City's Annual Comprehensive Financial Report ("ACFR").

NYCERS issues a publicly available comprehensive annual financial. This report may be obtained by writing to the New York City Employees' Retirement System at 335 Adams Street, Suite 2300, Brooklyn, NY 11201-3724 or at <a href="https://www.nycers.org">www.nycers.org</a>.

All employees of the Related Group holding permanent civil service positions in the competitive or labor class are required to become members of NYCERS six months after their date of appointment, but may voluntarily elect to join NYCERS prior to their mandated membership date. All other eligible employees have the option of joining NYCERS upon appointment or anytime thereafter. NYCERS members are assigned to a "tier" depending on the date of their membership.

- Tier 1 All members who joined prior to July 1, 1973.
- Tier 2 All members who joined on or after July 1, 1973 and before July 27, 1976.
- Tier 3 Only certain members who joined on or after July 27, 1976 and prior to April 1, 2012
- Tier 4 All members (with certain member exceptions) who joined on or after July 27, 1976 but prior to April 1, 2012. Members who joined on or after July 27, 1976 but prior to September 1, 1983 retain all rights and benefits of Tier 3 membership.
- Tier 6 Members who joined on or after April 1, 2012.



#### 6. NYSLERS —

NYSLERS is a cost-sharing, multiple-employer defined benefit retirement system. The New York State Comptroller's Office administers the NYSLERS' plan. The net position of NYSLERS is held in the New York State Common Retirement Fund (the "Fund"), which was established to hold all assets and record changes in fiduciary net position allocated to the plan. The Comptroller of the State of New York serves as the trustee of the Fund and is the administrative head of NYSLERS. NYSLERS' benefits are established under the provisions of the New York State RSSL. Once a public employer elects to participate in NYSLERS, the election is irrevocable. The New York State Constitution provides that pension membership is a contractual relationship and plan benefits cannot be diminished or impaired. Benefits can be changed for future members only by enactment of a State statute.

NYSLERS is included in New York State's financial report as a pension trust fund. The report can be accessed on the New York State Comptroller's website at: www.osc.state.ny.us/retire/about\_us/financial\_statements\_index.php or obtained by writing to the New York State and Local Retirement System, 110 State Street, Albany, NY 12244-001.

Pension legislation enacted in 1973, 1976, 1983, 2009 and 2012 established distinct classes of tier membership.

- Tier 1 All members who joined prior to July 1, 1973.
- Tier 2 All members who joined on or after July 1, 1973 and before July 27, 1976.
  - Generally, certain members who joined on or after July 27, 1976 but before January 1, 2010 and all
- Tier 3 other members who joined on or after July 27, 1976, but before September 1, 1983.
  - Generally, members (with certain member exceptions) who joined on or after September 1, 1983, but
- Tier 4 before January 1, 2010.
- Tier 5 Members who joined on or after January 1, 2010, but before April 1, 2012.
- Tier 6 Members who joined on or after April 1, 2012.

#### Benefits Provided

#### 1. Additional Plan —

Pension Benefits — An employee who retires under the Additional Plan, either: (a) after completing at least 20 years of credited service, or (b) after both attaining age 65 while in service and completing at least five years of credited service, or in the case of those who were active employees on January 1, 1988, after completing at least 10 years of credited service, is entitled to an annual retirement benefit, payable monthly for life. Payments commence to an employee referred to in: (a) only after attaining age 50, or (b) only after attaining age 65.

Benefit and contribution provisions, which are based on the point in time at which participants last entered qualifying service and their length of credited service, are established by, and may only be amended by the MTA Long Island Rail Road, subject to the obligations of the MTA Long Island Rail Road under its collective bargaining agreements.

The Additional Plan has both contributory and non-contributory requirements, with retirement ages varying from 50 to 65 depending upon a participant's length of credited service. Pension benefits payable to age 65, where eligible, are calculated as 2% of the employee's applicable final average earnings for each year of qualifying service up to 25 years plus 1.5% of applicable final average earnings for each year of qualifying service in excess of 25 years. For pension benefits payable at and after age 65, regardless of whether benefits commenced before or after the employee attained age 65, benefits are calculated in the same manner as pension benefits payable prior to age 65 except that the amount so determined is reduced by a percentage of the employee's annuity (not including any supplemental annuity) value at age 65 under the Federal Railroad Retirement Act.

Participants who entered qualifying service before July 1, 1978 are not required to contribute. Participants who entered qualifying service on or after July 1, 1978, are required to contribute 3% of their wages. The MTA Long Island Railroad contributes additional amounts based on actuarially determined amounts that are designed to accumulate sufficient assets to pay benefits when due.

Death and Disability Benefits — Participants who become disabled after accumulating 10 years of credited service and who meet the requirements as described in the Additional Plan receive a disability benefit. Disability pension benefits are calculated based on the participant's qualifying service and a percentage of final average compensation reduced by the full amount of benefit under the Federal Railroad Retirement Act. Survivorship benefits are paid to the participant's spouse when a survivorship option is elected or when an active participant has not divested his or her spouse of benefits. The survivorship benefit is payable at the time of death or when the vested participant would have attained an eligible age. The amount payable is in the form of an annuity. A lump sum death benefit no greater than five thousand dollars is payable upon death on behalf of a non-vested participant or vested participant whose pension rights were waived.



Retirement benefits establishment and changes for representative employees are collectively bargained and must be ratified by the respective union and the MTA Board. For nonrepresented employees, amendments must be approved by the MTA Board.

#### 2. MaBSTOA Plan —

The MaBSTOA Plan provides retirement as well as death, accident, and disability benefits. The benefits provided by the MaBSTOA Plan are generally similar to the benefits provided to MTA New York City Transit participants in NYCERS. Benefits vest after either 5, 10, or 20 years of credited service, depending on the date of membership.

In 2008, NYCERS had determined that Tier 4 employees are and have been eligible for a post retirement death benefit retroactive to 1986. In June 2012, the MTA Board approved an amendment to the MaBSTOA Plan to provide for incorporation of this benefit.

#### *Tier 1* —

Eligibility and Benefit Calculation: Tier 1 members must be at least age 50 with the completion of 20 years of service to be eligible to collect a service retirement benefit. Generally, the benefit is 1.50% for service before March 1, 1962, plus 2.0% for service from March 1, 1962 to June 30, 1970, plus 2.5% for service after June 30, 1970. The accumulated percentage, up to a maximum of 50%, is multiplied by the member's compensation, which is the greater of earned salary during the year prior to retirement. Once the accumulated reaches 50%, the percentage for each further year of service reverts back to 1.5%. The percentage in excess of 50% is multiplied by the final compensation, which is the highest average earnings over five consecutive years.

Ordinary Disability Benefits — Generally, ordinary disability benefits, are provided to eligible Tier 1 members after ten years of service with the benefit equal to the greater of the service retirement percentages or 25% multiplied by final compensation.

Accidental Disability Benefits — The accidental disability benefit to eligible Tier 1 members is equal to 75% of final compensation reduced by 100% of any worker's compensation payments.

Ordinary Death Benefits — For Tier 1 members the amount of the death benefit is a lump sum equal to six months' pay for members with less than 10 years of service; a lump sum equal to a 12 months of pay for members with more than 10 but less than 20 years of service, and a lump sum equal to two times 12 months of pay for members with more than 20 years of service.

#### *Tier 2* —

Eligibility and Benefit Calculation: Tier 2 members must be at least age 55 with the completion of 25 years of service to be eligible to collect a service retirement benefit. Generally, the benefit equals 50% of final 3-year average compensation, defined as the highest average earnings over three consecutive years, plus 1% of final 5-year average compensation, defined as the highest average earnings over five consecutive years, per year of credited service in excess of 20 years. For early retirement, members must be at least age 50 with the completion of at least 20 years of service. The benefit is determined in the same manner as the service retirement but not greater than 2.0% of final 3-year average compensation per year of service.

Ordinary Disability Benefits — Generally, ordinary disability benefits, are provided to eligible Tier 2 members after ten years of service with the benefit equal to the greater of the service retirement percentages or 25% multiplied by the final 5- year average compensation.

Accidental Disability Benefits — The accidental disability benefit to eligible Tier 2 members is equal to 75% of the final 5-year average compensation reduced by any worker's compensation payments.

Ordinary Death Benefits — Tier 2 members require the completion of 90 days of service to receive a lump sum equal to 3 times salary, raised to the next multiple of \$1,000 dollars.

#### Tiers 3, 4—

Eligibility and Benefit Calculation: Tier 3 and 4 members in the Regular 62 and 5 Plan must be at least age 62 with the completion of at least 5 years of service to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 20 years of service, is equal to 2.0% of Final Average Compensation ("FAC") for the first 30 years of service plus 1.5% of FAC for years of service in excess of 30. FAC is defined as the highest average earnings over three consecutive years, of which earnings in a year cannot exceed 110% of the average of the two preceding years. If the member completes less than 20 years of credited service, the benefit equals 1-2/3% of FAC multiplied by years of service. For early retirement, members must be at least age 55 with the completion of at least 5 years of service. The benefit equals the service retirement benefit reduced by 6% for each of the first two years prior to age 62, and by 3% for years prior to age 60.

Tier 3 and 4 members in the basic 55/25Plan must be at least age 55 with the completion of at least 25 years of service, or be at least age 62 with the completion of at least 5 years of service, to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 25 years of service, is equal to 2.0% of FAC for the first 30 years of service plus 1.5% of FAC for years of service in excess of 30. If the member completes less than 25 years of credited service, the benefit equals 1-2/3% of FAC multiplied by years of service.

Tier 4 members in the 57/5 Plan must be at least age 57 with the completion of at least 5 years of service to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 20 years of service, is equal to 2.0% of FAC for the first 30 years of service plus 1.5% of FAC for years of service in excess of 30. If the member completes less than 20 years of credited service, the benefit equals 1-2/3% of FAC multiplied by years of service.

Ordinary and Accidental Disability Benefits — For eligible members of the Regular 62/5 Plan, 57/25Plan and 57/5 Plan, ordinary and accidental disability benefits, are provided after 10 years of service for ordinary and no service required for accidental disability benefit. The benefit equals the greater of 1-2/3% of FAC per year of service and 1/3 of FAC.

Ordinary Death Benefits — For eligible members of the Regular 62/5 Plan, 55/25 Plan, 57/5 Plan, the pre-retirement ordinary death benefit is equal to a lump sum of annual salary times the lesser of completed years of service and 3. After age 60, the benefit is reduced 5% per year, to a maximum reduction of 50%. Accumulated regular member contributions with interest and one-half of accumulated additional member contributions with interest are also payable. Upon retirement, the post-retirement benefit is reduced by 50% and reduced an additional 25% after completion of one year of retirement. After completion of two years of retirement, the benefit equals 10% of the pre-retirement benefit in force at age 60.

#### *Tier 6* —

Eligibility and Benefit Calculation: Tier 6 members in the 55/25 Special Plan must be at least age 55 with the completion of at least 25 years, or at least age 63 with the completion of at least 10 years of service, to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 25 years of service, is equal to 2.0% of Final Average Salary ("FAS") for the first 30 years of service plus 1.5% of FAS for years of service in excess of 30. If the member completes less than 20 years of credited service, the benefit equals 1-2/3% of FAS multiplied by years of service. FAS is defined as the highest average pensionable compensation over five consecutive years.

Tier 6 members in the Basic 63/10 Plan must be at least age 63 with the completion of at least 10 years to be eligible to collect a service retirement benefit. Generally, the benefit for members with at least 20 years of service, is equal to 35% of FAS plus 2.0% of FAS for years of service in excess of 20. If the member completes less than 20 years of credited service, the benefit equals 1- 2/3% of FAS multiplied by years of service. FAS is defined as the highest average pensionable earnings over five consecutive years. For early retirement, members must be at least age 55 with the completion of at least 10 years of service. The benefit equals the service retirement benefit reduced by 6.5% for each year early retirement precedes age 63.

Ordinary and Accidental Disability Benefits — For eligible members of the 55/25 Special Plan and the Basic 63/10 Plan, ordinary and accidental disability benefits, are provided after 10 years of credited service for ordinary disability benefit. There is no service requirement for accidental disability benefit. The benefit equals the greater of 1-2/3% of FAS per year of service and 1/3 of FAS.

Ordinary Death Benefits — For eligible members of the 55/25 Special Plan and the Basic 63/10 Plan, the pre-retirement ordinary death benefit is equal to a lump sum of annual salary times the lesser of completed years of service and 3. After age 60, the benefit is reduced 5% per year, to a maximum reduction of 50%. Accumulated regular member contributions with interest and one-half of accumulated additional member contributions with interest are also payable. Upon retirement, the post-retirement benefit is reduced by 50% and reduced an additional 25% after completion of one year of retirement. After completion of two years of retirement, the benefit equals 10% of the pre-retirement benefit in force at age 60.

#### 3. MNR Cash Balance Plan —

Pension Benefits — Participants of the MNR Cash Balance Plan are vested in their benefit upon the earlier of (a) the completion of 5 years of service with MTA Metro-North Railroad or (b) the attainment of age 62. The accrued benefit is a participant's Initial Account Balance increased each month by the benefit escalator. The benefit escalator is defined as the Pension Benefit Guaranty Corporation ("PBGC") immediate annuity rate in effect for December of the year preceding the year for which the determination is being made) divided by 180. The accrued benefit is paid as an escalating annuity. Vested participants are entitled to receive pension benefits commencing at age sixty-five. Participants may elect to receive the value of their accumulated plan benefits as a lump-sum distribution upon retirement or they may elect a monthly life annuity. Participants may elect to receive their pension in the form of a joint and survivor annuity.

Participants of the MNR Cash Balance Plan are eligible for early retirement benefits upon termination of employment, the attainment of age 62, or age 60 and completion of 15 years of service, or age 55 and the completion of 30 years of



service. The early retirement benefits paid is the normal retirement pension deferred to age 65 or an immediate pension equal to the life annuity actuarial equivalent of a participant's escalating annuity at normal retirement date indexed by the Initial Benefit Escalator from early retirement date to normal retirement date and reduced by 5/9 of 1% for each month retirement precedes age 65 up to 60 months and 5/18 of 1% for each month after 60 months.

For members with cash balances who are currently members of the Metropolitan Transportation Authority Defined Benefit Pension Plan, an additional benefit is provided equal to the amount needed to bring their total benefits (i.e., Railroad Retirement Tier I and II benefits, Conrail Plan benefits, Cash Balance Plan benefits, and MTA Defined Benefit Pension Plan benefits) up to a minimum of 65% of their 3-year final average pay under the MTA Defined Benefit Plan. In no event will the Additional Benefit exceed 2% of 3-year final average pay multiplied by the Conrail Management Service prior to July 1, 1983. This benefit is payable as a life annuity and is reduced for commencement prior to age 65 in the same manner as the regular cash balance benefit. This additional benefit is payable only in the form of a life annuity or 100% or 50% contingent annuity

Death Benefits — Benefits are paid to vested participants' beneficiaries in the event of a participants' death. The amount of benefits payable is the participant's account balance at the date of his or her death. Pre-retirement death benefits paid for a participant's death after 55 is equal to the amount the spouse would have received had the participant elected retirement under the normal form of payment on the day preceding his death. Pre-retirement death benefits paid for a participant's death before 55 is equal to the amount the spouse would have received had the participant survived to age 55 and retired under the normal form of payment on that date. The benefit is based on service to the participant's date of death and is payable beginning on the date the participant would have attained age 55.

In lieu of the above benefit, the surviving spouse can elect to receive the participant's account balance in a single lump sum payment immediately. If the participant was not married, the participant's beneficiary is entitled to receive the participant's Account Balance as of the participant's date of death in a single lump sum payment.

#### 4. MTA Defined Benefit Plan

Pension Benefits — Retirement benefits are paid from the Plan to covered MTA Metro-North Railroad, MTA Staten Island Railway and post - 1987 MTA Long Island Rail Road employees as service retirement allowances or early retirement allowances. A participant is eligible for a service retirement allowance upon termination if the participant satisfied both age and service requirements. A participant is eligible for an early retirement allowance upon termination if the participant has attained age 55 and completed at least 10 years of credited service. Terminated participants with 5 or more years of credited service are eligible for a deferred vested benefit. Deferred vested benefits are payable on an unreduced basis on the first day of the month following the participant's 62nd birthday.

Certain represented employees of the MTA Long Island Rail Road and the MTA Metro-North Railroad continue to make contributions to the Plan for 15 years. Certain represented employees of the MTA Long Island Rail Road and the MTA Metro-North Railroad are eligible for an early retirement allowance upon termination if the participant has attained age 60 and completed at least 5 years of credited service, or has attained age 55 and completed at least 30 years of credited service. The early retirement allowance is reduced one-quarter of 1% per month for each full month that retirement predates age 60 for certain represented employees of the MTA Long Island Rail Road and the MTA Metro-North Railroad.

Effective in 2007, members and certain former members who become (or became) employed by another MTA agency which does not participate in the Plan continue to accrue service credit based on such other employment. Upon retirement, the member's vested retirement benefit from the Plan will be calculated on the final average salary of the subsequent MTA agency, if higher. Moreover, the Plan benefit will be reduced by the benefit, if any, payable by the other plan based on such MTA agency employment. Such member's disability and ordinary death benefit will be determined in the same way.

Retirement benefits are paid from the Plan under the MTA 20-Year Police Retirement Program. A participant is eligible for service retirement at the earlier of completing twenty years of credited Police service or attainment of age 62. Terminated participants with five years of credited police service, who are not eligible for retirement, are eligible for a deferred benefit. Deferred vested benefits are payable on the first of the month following the participant's attainment of age 55.

Retirement benefits paid from the Plan to covered represented MTA Bus employees include service retirement allowances or early retirement allowances. Under the programs covering all represented employees at Baisley Park, Eastchester, La Guardia, Spring Creek, and Yonkers Depots and the represented employees at College Point Depot, JFK, Far Rockaway a participant is eligible for a service retirement allowance upon termination if the participant has attained age sixty-five and completed at least five years of credited service or if the participant has attained age 57 and completed at least 20 years of credited service. A participant hired prior to June 2009 from Baisley Park, College Point, and La Guardia Depots is eligible for an early retirement allowance if the participant has attained age 55 and completed 20 years of credited service. Terminated participants with five or more years of credited service who are not eligible to receive a service retirement allowance or early retirement allowance are eligible for a deferred vested benefit. Deferred vested benefits are payable on an unreduced basis on or after the participant attains age 65.



At Baisley Park, Far Rockaway, JFK, La Guardia and Spring Creek Depots, a participant who is a non-represented employee is eligible for an early retirement allowance upon termination if the participant has attained age 55 and completed 15 years of service. Terminated participants with five or more years of credited service who are not eligible to receive a service retirement allowance or early retirement allowance are eligible for a deferred vested benefit. Deferred vested benefits are payable on an unreduced basis on or after the participant attains age 62.

The MTA Bus retirement programs covering represented and non-represented employees at Eastchester and Yonkers and covering the represented employees at Baisley Park, College Point, Far Rockaway, JFK, La Guardia and Spring Creek are fixed dollar plans, i.e., the benefits are a product of credited service and a specific dollar amount.

The retirement benefits for certain non-represented employees at Baisley Park, Far Rockaway, JFK, La Guardia and Spring Creek are based on final average salary. Certain participants may elect to receive the retirement benefit as a single life annuity or in the form of an unreduced 75% joint and survivor benefit.

Pre-1988 MTA Long Island Rail Road participants are eligible for a service retirement allowance upon termination if the participants has either: (a) attained age sixty-five and completed at least five years of credited service, or if an employee on January 1, 1988 completed at least 10 years of credited service, or (b) attained age fifty and has completed at least 20 years of credited service. Terminated participants who were not employees on January 1, 1988 with five or more years of credited service are eligible for a deferred vested benefit. Pension benefits payable to age 65, where eligible, are calculated as 2% of the employee's applicable final average earnings for each year of qualifying service up to 25 years plus 1.5% of applicable final average earning of each year of qualifying service in excess of 25 years. For pension benefits payable at and after age 65 regardless of whether benefits commenced before or after the employee attained age 65, benefits are calculated in the same manner as pension benefits payable prior to age 65 except that the amount so determined is reduced by a percentage of the employee's annuity (not including supplemental annuity) value at age 65 under the Federal Railroad Retirement Act. The reduction of pension benefits for amounts payable under the Federal Railroad Retirement Act is 50%.

Death and Disability Benefits — In addition to service retirement benefits, participants of the Plan are eligible to receive disability retirement allowances and death benefits. Participants who become disabled may be eligible to receive disability retirement allowances after 10 years of covered MTA Bus service; 10 years of credited service for covered MTA Metro-North Railroad and MTA Long Island Rail Road management and represented employees, covered MTA Staten Island Railway employees and covered MTA police participants.

The disability retirement allowance for covered MTA Metro-North Railroad and MTA Long Island Rail Road management and represented covered MTA Staten Island Railway employees is calculated based on the participant's credited service and final average salary ("FAS") but not less than ½ of FAS. Under the MTA 20 Year Police Retirement Program, a disabled participant may be eligible for one of three forms of disability retirement: (a) ordinary disability which is payable if a participant has ten years of credited Police service and is calculated based on the participant's credited Police service and FAS but not less than ½ of FAS; (b) performance of duty, which is payable if a participant is disabled in the performance of duty and is ½ of FAS, and (c) accidental disability, which is payable if a participant is disabled as the result of an on-the-job accidental injury and is ¾ of FAS subject to an offset of Workers' Compensation benefits. Pursuant to the MTA Bus programs, the disability benefit is the same as the service retirement benefit.

Pre -1988 MTA Long Island Rail Road participants who become disabled after accumulating 10 years of credited service and who meet the requirements as described in the Plan may be eligible to receive a disability benefit. Disability pension benefits are based on the participant's qualified service and a percentage of final average compensation reduced by the full amount of the disability benefit under the Federal Railroad Retirement Act. Survivorship benefits for pre-1988 MTA Long Island Rail Road participants are paid to the spouse when a survivorship option is elected or when an active participant has not divested their spouse of benefits.

The survivorship benefit is payable at the time of death or when the vested participant would have attained an eligible age. The amount payable is in the form of an annuity. A lump sum death benefit no greater than \$5,000 (whole dollars) is payable upon death on behalf of a non-vested participant or vested participant whose pension rights were waived.

Death benefits are paid to the participant's beneficiary in the event of the death of a covered MTA Metro-North Railroad, post-1987 MTA Long Island Rail Road or MTA Staten Island Railway employee after completion of one year of credited service. The death benefit payable is calculated based on a multiple of a participant's salary based on years of credited service up to three years and is reduced beginning at age 61. There is also a post-retirement death benefit which, in the 1st year of retirement, is equal to 50% of the pre-retirement death benefit amount, whichever is greater, 25% the 2nd year and 10% of the death benefit payable at age 60 for the 3rd and later years. For the Police 20 Year Retirement Program, the death benefit is payable after ninety days of credited MTA Police service, and is equal to three times their salary. For non-Police groups, this death benefit is payable in a lump sum distribution while for Police, the member or the beneficiary can elect to have it paid as an annuity. The MTA Police do not have a post retirement benefit.



In the MSBA Employees' Pension Plan, there are special spousal benefits payable upon the death of a participant who is eligible for an early retirement benefit, or a normal service retirement benefit, or who is a vested participant or vested former participant. To be eligible, the spouse and participant must have been married at least one year at the time of death. Where the participant was eligible for an early service retirement benefit or was a vested participant or former participant, the benefit is a pension equal to 40% of the benefit payable to the participant as if the participant retired on the date of death. Where the participant was eligible for a normal service retirement benefit, the eligible spouse can elect either the benefit payable as a pension, as described in the prior sentence, or a lump sum payment based on an actuarially determined pension reserve. If there is no eligible spouse for this pension reserve benefit, a benefit is payable to the participant's beneficiary or estate.

Moreover, an accidental death benefit is payable for the death of a participant who is a covered MTA Metro-North Railroad or post-1987 MTA Long Island Rail Road employee, a covered MTA Staten Island Railway employee or a covered MTA Police member and dies as the result of an on-the-job accidental injury. This death benefit is paid as a pension equal to 50% of the participant's salary and is payable to the spouse for life, or, if none, to children until age eighteen (or twenty-three, if a student), or if none, to a dependent parent.

For MTA Bus employees, there is varied death benefit coverage under the Plan. For all represented and non-represented MTA Bus employees at Eastchester and Yonkers Depots and represented MTA Bus employees at Baisley Park, College Point, Far Rockaway, JFK, La Guardia and Spring Creek Depots, if a participant dies prior to being eligible for a retirement benefit, the participant's beneficiary may elect to receive a refund of the participant's contributions plus interest.

Moreover, the spouses of the above employees who are vested are entitled to a presumed retirement survivor annuity which is based on a 50% Joint and Survivor annuity. The date as of which such annuity is determined and on which it commences varies among the different programs depending on whether the participants are eligible for retirement and for payment of retirement benefits.

In addition, the spouse of a non-represented MTA Bus employee at Spring Creek, JFK, La Guardia, Baisley Park and Far Rockaway, if such employee is age 55 and has 15 years of service and is a terminated member with a vested benefit which is not yet payable, may elect the presumed retirement survivor annuity or 1/2 the participant's accrued benefit paid monthly and terminating on the 60th payment or the spouse's death. The spouse of a non-represented MTA Bus employee at Yonkers Depot may also receive a pre-retirement survivor annuity from the supplemental plan. If there is no such spouse, the actuarial equivalent of such annuity is payable.

Dependent children of MTA Bus employees are also entitled to an annuity based on the spouse's pre-retirement survivor annuity (1/2 of the spouse's annuity is payable to each child, but no more than 100% of the spouse's annuity is payable). In addition, the dependent children of retirees who were MTA Bus employees at these Depots are entitled to an annuity based on the presumed retirement survivor's annuity (25% of the spouse's annuity; but no more than 50% of the spouse's annuity is payable).

Retirement benefits establishment and changes for represented employees are collectively bargained and must be ratified by the respective union and the MTA Board. For nonrepresented employees, retirement benefits establishment and changes are presented to the MTA Board and must be accepted and approved by the MTA Board.

#### 5. NYCERS —

NYCERS provides three main types of retirement benefits: Service Retirements, Ordinary Disability Retirements (non-job-related disabilities) and Accident Disability Retirements (job-related disabilities) to participants generally based on salary, length of service, and member Tiers.

The Service Retirement benefits provided to Tier 1 participants fall into four categories according to the level of benefits provided and the years of service required. Three of the four categories provide annual benefits of 50% to 55% of final salary after 20 or 25 years of service, with additional benefits equal to a specified percentage per year of service (currently 1.2% to 1.7%) of final salary. The fourth category has no minimum service requirement and instead provides an annual benefit for each year of service equal to a specified percentage (currently 0.7% to 1.53%) of final salary.

Tier 2 participants have provisions similar to Tier 1, except that the eligibility for retirement and the salary base for benefits are different and there is a limitation on the maximum benefit.

Tier 3 participants were later mandated into Tier 4, but could retain their Tier 3 rights. The benefits for Tier 3 participants are reduced by one half of the primary Social Security benefit attributable to service, and provides for an automatic annual cost-of-living escalator in pension benefits of not more than 3.0%.

Tier 4 participants upon satisfying applicable eligibility requirements may be mandated or elected, as applicable, into the Basic 62/5 Retirement Plan, the 57/5 Plan, the 55/25 Plan, the Transit 55/25 Plan, the MTA Triborough Bridge and Tunnel Authority 50/20 Plan, and the Automotive Member 25/50 Plan. These plans provide annual benefits of 40% to



50% of final salary after 20 or 25 years of service, with additional benefits equal to a specified percentage per year of service (currently 1.5% to 2%) of final salary.

Chapter 18 of the Laws of 2012 created Tier 6. These changes increase the retirement age to 63, require member contributions for all years of service, institute progressive member contributions, and lengthen the final average salary period from 3 to 5 years.

NYCERS also provides automatic Cost-of-Living Adjustments ("COLA") for certain retirees and beneficiaries, death benefits; and certain retirees also receive supplemental benefits. Subject to certain conditions, members generally become fully vested as to benefits upon the completion of 5 years of service.

#### 6. NYSLERS —

NYSLERS provides retirement benefits as well as death and disability benefits. Members who joined prior to January 1, 2010 need 5 years of service to be fully vested. Members who joined on or after January 1, 2010 need 10 years of service to be fully vested.

#### Tiers 1 and 2 —

*Eligibility:* Tier 1 members generally must be at least age 55 to be eligible for a retirement benefit. There is no minimum service requirement for Tier 1 members. Generally, Tier 2 members must have 5 years of service and be at least age 55 to be eligible for a retirement benefit. The age at which full benefits may be collected for Tier 1 is 55, and the full benefit age for Tier 2 is 62.

Benefit Calculation: Generally, the benefit is 1.67% of final average salary for each year of service if the member retires with less than 20 years. If the member retires with 20 or more years of service, the benefit is 2 percent of final average salary for each year of service. Tier 2 members with five or more years of service can retire as early as age 55 with reduced benefits. Tier 2 members age 55 or older with 30 or more years of service can retire with no reduction in benefits. As a result of Article 19 of the RSSL, Tier 1 and Tier 2 members who worked continuously from April 1, 1999 through October 1, 2000 received an additional month of service credit for each year of credited service they have at retirement, up to a maximum of 24 additional months. Final average salary is the average of the wages earned in the three highest consecutive years of employment. For Tier 1 members who joined on or after June 17, 1971, each year's compensation used in the final average salary calculation is limited to no more than 20 percent greater than the previous year. For Tier 2 members, each year of final average salary is limited to no more than 20 percent greater than the average of the previous two years.

#### Tiers 3, 4, and 5 —

*Eligibility:* Most Tier 3 and 4 members must have 5 years of service and be at least age 55 to be eligible for a retirement benefit. Tier 5 members, must have 10 years of service and be at least age 55 to be eligible to collect a retirement benefit. The full benefit age for Tiers 3, 4 and 5 is 62.

Benefit Calculation: Generally, the benefit is 1.67% of final average salary for each year of service if the member retires with less than 20 years. If a member retires with between 20 and 30 years of service, the benefit is 2 percent of final average salary for each year of service. If a member retires with more than 30 years of service, an additional benefit of 1.5% of final average salary is applied for each year of service over 30 years. Tier 3 and 4 members with five or more years of service and Tier 5 members with 10 or more years of service can retire as early as age 55 with reduced benefits. Tier 3 and 4 members age 55 or older with 30 or more years of service can retire with no reduction in benefits. Final average salary is the average of the wages earned in the three highest consecutive years of employment. For Tier 3, 4 and 5 members, each year's compensation used in the final average salary calculation is limited to no more than 10% greater than the average of the previous two years.

#### *Tier 6* —

*Eligibility:* Generally, Tier 6 members must have 10 years of service and be at least age 55 to be eligible to collect a retirement benefit. The full benefit age for Tier 6 is 63.

Benefit Calculation: Generally, the benefit is 1.67% of final average salary for each year of service if the member retires with less than 20 years. If a member retires with 20 years of service, the benefit is 1.75% of final average salary for each year of service. If a member retires with more than 20 years of service, an additional benefit of 2% of final average salary is applied for each year of service over 20 years. Tier 6 members with 10 or more years of service can retire as early as age 55 with reduced benefits. Final average salary is the average of the wages earned in the five highest consecutive years of employment. For Tier 6 members, each year's compensation used in the final average salary calculation is limited to no more than 10% greater than the average of the previous four years.

Disability Benefits— Generally, disability retirement benefits are available to members unable to perform their job duties because of permanent physical or mental incapacity. There are three general types of disability benefits: ordinary,



performance of duty, and accidental disability benefits. Eligibility, benefit amounts, and other rules such as any offsets of other benefits depend on a member's tier, years of service, and plan. Ordinary disability benefits, usually one-third of salary, are provided to eligible members after ten years of service; in some cases, they are provided after five years of service. For all eligible Tier 1 and Tier 2 members, the accidental disability benefit is a pension of 75 percent of final average salary, with an offset for any Workers' Compensation benefits received. The benefit for eligible Tier 3, 4, 5 and 6 members is the ordinary disability benefit with the years-of-service eligibility requirement dropped.

Ordinary Death Benefits — Death benefits are payable upon the death, before retirement, of a member who meets eligibility requirements as set forth by law. The first \$50,000 (whole dollars) of an ordinary death benefit is paid in the form of group term life insurance. The benefit is generally three times the member's annual salary. For most members, there is also a reduced post-retirement ordinary death benefit available.

Post-Retirement Benefit Increases — A cost-of-living adjustment is provided annually to: (i) all retirees who have attained age 62 and have been retired for five years; (ii) all retirees who have attained age 55 and have been retired for ten years; (iii) all disability retirees, regardless of age, who have been retired for five years; (iv) recipients of an accidental death benefit, regardless of age, who have been receiving such benefit for five years and (v) the spouse of a deceased retiree receiving a lifetime benefit under an option elected by the retiree at retirement. An eligible spouse is entitled to one-half the cost-of-living adjustment amount that would have been paid to the retiree when the retiree would have met the eligibility criteria. This cost-of-living adjustment is a percentage of the annual retirement benefit of the eligible member as computed on a base benefit amount not to exceed \$18,000 (whole dollars) of the annual retirement benefit. The cost-of-living percentage shall be 50 percent of the annual Consumer Price Index as published by the U.S. Bureau of Labor, but cannot be less than 1 percent or exceed 3 percent.

# Membership

As of January 1, 2020 and January 1, 2019, the dates of the most recent actuarial valuations, membership data for the following pension plans are as follows:

Membership at:					
	MNR Cash Balance Plan	Additional Plan	MaBSTOA Plan	MTA Defined Benefit Plan	TOTAL
Active Plan Members	2	34	8,795	18,960	27,791
Retirees and beneficiaries receiving benefits Vested formerly active members	24	5,483	5,944	11,468	22,919
not yet receiving benefits	15	19	1,040	1,519	2,593
Total	41	5,536	15,779	31,947	53,303

Membership at:					
	MNR Cash Balance Plan	Additional Plan	MaBSTOA Plan	MTA Defined Benefit Plan	TOTAL
Active Plan Members	2	49	9,087	19,074	28,212
Retirees and beneficiaries receiving benefits Vested formerly active members	25	5,626	5,779	11,249	22,679
not yet receiving benefits	15	20	1,023	1,481	2,539
Total	42	5,695	15,889	31,804	53,430

#### Contributions and Funding Policy

#### 1. Additional Plan —

Employer contributions are actuarially determined on an annual basis and are recognized when due. The Additional Plan is a defined benefit plan administered by the Board of Pension Managers and is a governmental plan and accordingly, is not subject to the funding and other requirements of ERISA.

Upon termination of employment before retirement, vested participants who have been required to contribute must choose to: (1) receive a refund of their own contributions, including accumulated interest at rates established by the MTA Long Island Railroad's Board of Managers of Pensions (1.5% in 2020 and 2019), or (2) leave their contributions in the Additional Plan until they retire and become entitled to the pension benefits. Non-vested participants who have been required to contribute will receive a refund of their own contributions, including accumulated interest at rates established by the MTA Long Island Railroad's Board of Managers of Pensions (1.5% in 2020 and 2019).



Funding for the Additional Plan by the MTA Long Island Railroad is provided by MTA. Certain funding by MTA is made to the MTA Long Island Railroad on a discretionary basis. The continuance of the MTA Long Island Railroad's funding for the Additional Plan has been, and will continue to be, dependent upon the receipt of adequate funds.

#### 2. MaBSTOA Plan —

The contribution requirements of MaBSTOA Plan members are established and may be amended only by the MaBSTOA Board in accordance with Article 10.01 of the MaBSTOA Plan. MaBSTOA's funding policy for periodic employer contributions is to provide for actuarially determined amounts that are designed to accumulate sufficient assets to pay benefits when due. It is MaBSTOA's policy to fund, at a minimum, the current year's normal pension cost plus amortization of the unfunded actuarial accrued liability.

The MaBSTOA Pension Plan includes the following plans, including the 2000 amendments which are all under the same terms and conditions as NYCERS:

- i. Tier 1 and 2 Basic Plans;
- ii. Tier 3 and 4 55 and 25 Plan;
- iii. Tier 3 and 4 Regular 62 and 5 Plan;
- iv. Tier 4 57 and 5 Plan
- v. Tier 6 55 and 25 Special Plan
- vi. Tier 6 Basic 63 and 10 Plan

For employees, the MaBSTOA Plan has both contributory and noncontributory requirements depending on the date of entry into service. Employees entering qualifying service on or before July 26, 1976, are non-contributing (Tiers 1 and 2). Certain employees entering qualifying service on or after July 27, 1976, are required to contribute 3% of their salary (Tiers 3 and 4).

In March 2012, pursuant to Chapter 18 of the Laws of 2012, individuals joining NYCERS or the MaBSTOA Pension Plan on or after April 1, 2012 are subject to the provisions of Tier 6. The highlights of Tier 6 include:

- Increases in employee contribution rates. The rate varies depending on salary, ranging from 3% to 6% of gross wages. Contributions are made until retirement or separation from service.
- The retirement age increases to 63 and includes early retirement penalties, which reduce pension allowances by 6.5 percent for each year of retirement prior to age 63.
- o Vesting after 10 years of credited service; increased from 5 years of credited service under Tier 3 and Tier 4.
- Adjustments of the Pension Multiplier for calculating pension benefits (excluding Transit Operating Employees):
   the multiplier will be 1.75% for the first 20 years of service, and 2% starting in the 21st year; for an employee who works 30 years, their pension will be 55% of Final Average Salary under Tier 4, instead of 60% percent under Tier 4.
- Adjustments to the Final Average Salary Calculation; the computation changed from an average of the final 3
  years to an average of the final 5 years. Pensionable overtime will be capped at \$15,000 dollars per year plus an
  inflation factor.
- Pension buyback in Tier 6 will be at a rate of 6% of the wages earned during the period of buyback, plus 5% compounded annually from the date of service until date of payment.

Pursuant to Section 7.03 of the MaBSTOA Plan, active plan members are permitted to borrow up to 75% of their contributions with interest. Their total contributions and interest remain intact and interest continues to accrue on the full balance. The participant's accumulated contribution account is used as collateral against the loan.

#### 3. MNR Cash Balance Plan —

Funding for the MNR Cash Balance Plan is provided by MTA Metro-North Railroad, a public benefit corporation that receives funding for its operations and capital needs from the MTA and the Connecticut Department of Transportation ("CDOT"). Certain funding by MTA is made to the MTA Metro-North Railroad on a discretionary basis. The continuance of funding for the MNR Cash Balance Plan has been, and will continue to be, dependent upon the receipt of adequate funds

MTA Metro-North Railroad's funding policy with respect to the MNR Cash Balance Plan was to contribute the full amount of the pension benefit obligation ("PBO") of approximately \$2.977 million to the trust fund in 1989. As participants retire, the Trustee has made distributions from the MNR Cash Balance Plan. MTA Metro-North Railroad



anticipated that no further contributions would be made to the MNR Cash Balance Plan. However, due to changes in actuarial assumptions and market performance, additional contributions were made to the MNR Cash Balance Plan in several subsequent years. Per the January 1, 2020 valuation, there is no unfunded accrued liability and the actuarially determined contribution is \$0. Per the January 1, 2019 valuation, there is an unfunded accrued liability of \$8,252 (in whole dollars) and the actuarially determined contribution is \$8,582 (in whole dollars).

# 4. MTA Defined Benefit Plan —

Employer contributions are actuarially determined on an annual basis. Amounts recognized as receivables for contributions include only those due pursuant to legal requirements. Employee contributions to the MTA Defined Benefit Plan are recognized in the period in which the contributions are due. There are no contributions required under the Metropolitan Suburban Bus Authority Employee's Pension Plan.

The following summarizes the employee contributions made to the MTA Defined Benefit Plan:

Effective January 1, 1994, covered MTA Metro-North Railroad and MTA Long Island Railroad non-represented employees are required to contribute to the MTA Plan to the extent that their Railroad Retirement Tier II employee contribution is less than the pre-tax cost of the 3% employee contributions. Effective October 1, 2000, employee contributions, if any, were eliminated after ten years of making contributions to the MTA Plan. MTA Metro-North Railroad employees may purchase prior service from January 1, 1983 through December 31, 1993 and MTA Long Island Railroad employees may purchase prior service from January 1, 1988 through December 31, 1993 by paying the contributions that would have been required of that employee for the years in question, calculated as described in the first sentence, had the MTA Plan been in effect for those years.

Police Officers who become participants of the MTA Police Program prior to January 9, 2010 contribute to that program at various rates. Police Officers who become participants on or after January 9, 2010, but before April 1, 2012 contribute 3% up to the completion of 30 years of service, the maximum amount of service credit allowed. Police Officers who become participants on or after April 1, 2012 contribute 3%, with additional new rates starting April 2013, ranging from 3.5%, 4.5%, 5.75%, to 6%, depending on salary level, for their remaining years of service.

Covered MTA Metro-North Railroad represented employees and MTA Long Island Railroad represented employees who first became eligible to be MTA Plan participants prior to January 30, 2008 contribute 3% of salary. MTA Staten Island Railway employees contribute 3% of salary except for represented employees hired on or after June 1, 2010 who contribute 4%. MTA Long Island Railroad represented employees who became participants after January 30, 2008 contribute 4% of salary. For the MTA Staten Island Railway employees, contributions are not required after the completion of ten years of credited service. MTA Long Island Railroad represented employees are required to make the employee contributions for ten years, or fifteen years if hired after certain dates in 2014 as per collective bargaining agreements. Certain Metro-North represented employees, depending on their collective bargaining agreements, are required to make the employee contributions until January 1, 2014, January 1, 2017, June 30, 2017, or the completion of required years of credited service as per the relevant collective bargaining agreements.

Covered MTA Bus represented employees and certain non-represented employees are required to contribute a fixed dollar amount, which varies, by depot. Currently, non-represented employees at certain Depots, contribute \$21.50 (whole dollars) per week. Non-represented employees at Eastchester hired prior to 2007 contribute \$25 (whole dollars) per week. Represented employees at Baisley Park, College Point, Eastchester, Far Rockaway, JFK, LaGuardia and Yonkers Depots contribute \$29.06 (whole dollars) per week; Spring Creek represented employees contribute \$32.00 (whole dollars) per week. Certain limited number of represented employees promoted prior to the resolution of a bargaining impasse continue to participate in the MTA Defined Benefit Plan that was in effect before their promotion. Certain MTA Bus non-represented employees who are formerly employed by the private bus companies (Jamaica, Green, Triboro and Command) at Baisley Park, Far Rockaway, JFK, LaGuardia and Spring Creek Depots who are in the pension program covering only such employees make no contributions to the program. (Note: the dollar figures in this paragraph are in dollars, not in millions of dollars).

#### 5. NYCERS—

NYCERS funding policy is to contribute statutorily-required contributions ("Statutory Contributions"), determined by the Chief Actuary for the New York City Retirement Systems, in accordance with State statutes and City laws, and are generally funded by employers within the appropriate Fiscal Year. The Statutory Contributions are determined under the One-Year Lag Methodology ("OYLM"). Under OYLM, the actuarial valuation date is used for calculating the Employer Contributions for the second following Fiscal Year. Statutory Contributions are determined annually to be an amount that, together with member contributions and investment income, provides for NYCERS' assets to be sufficient to pay benefits when due.

Member contributions are established by law. NYCERS has both contributory and noncontributory requirements, with retirement age varying from 55 to 70 depending upon when an employee last entered qualifying service.

In general, Tier 1 and Tier 2 member contribution rates are dependent upon the employee's age at membership and retirement plan election. In general, Tier 3 and Tier 4 members make basic contributions of 3.0% of salary, regardless of age at membership. Effective October 1, 2000, in accordance with Chapter 126 of the Laws of 2000, these members, except for certain MTA New York City Transit Authority employees enrolled in the Transit 20-Year Plan, are not required to make basic contributions after the 10th anniversary of their membership date or completion of ten years of credited service, whichever is earlier. In addition, members who meet certain eligibility requirements will receive one month's additional service credit for each completed year of service up to a maximum of two additional years of service credit. Effective December 2000, certain MTA New York City Transit Authority Tier 3 and Tier 4 members make basic member contributions of 2.0% of salary, in accordance with Chapter 10 of the Laws of 2000. Certain Tier 2, Tier 3 and Tier 4 members who are participants in special retirement plans are required to make additional member contributions of 1.85%, in addition to their base membership contribution. Tier 6 members are mandated to contribute between 3.0% and 6.0% of salary, depending on salary level, until they separate from City service or until they retire.

NYCERS established a "special program" for employees hired on or after July 26, 1976. A plan for employees, who have worked 20 years, and reached age 50, is provided to Bridge and Tunnel Officers, Sergeants and Lieutenants and Maintainers. Also, an age 57 retirement plan is available for all other such MTA Bridges and Tunnels employees. Both these plans required increased employee contributions.

Certain retirees also receive supplemental benefits from MTA Bridges and Tunnels. Certain participants are permitted to borrow up to 75% of their own contributions including accumulated interest. These loans are accounted for as reductions in such participants' contribution accounts. Upon termination of employment before retirement, certain members are entitled to refunds of their own contributions, including accumulated interest, less any outstanding loan balances.

MTA New York City Transit and MTA Bridges and Tunnels are required to contribute at an actuarially determined rate. The contribution requirements of plans members, MTA New York City Transit and MTA Bridges and Tunnels are established and amended by law.

#### 6. NYSLERS—

*Employer Contributions* - Under the authority of the RSSL, the Comptroller annually certifies the actuarially determined rates expressly used in computing the employers' contributions based on salaries paid during the NYSLERS fiscal year ending June 30.

Member Contributions - NYSLERS is noncontributory except for employers who joined the plan after July 27, 1976. Generally, Tier 3, 4, and 5 members must contribute 3% of their salary to NYSLERS. As a result of Article 19 of the RSSL, eligible Tier 3 and 4 employees, with a membership date on or after July 27, 1976, who have ten or more years of membership or credited service with NYSLERS, are not required to contribute. Members cannot be required to begin making contributions or to make increased contributions beyond what was required when membership began. For Tier 6 members, the contribution rate varies from 3% to 6% depending on salary. Generally, Tier 5 and 6 members are required to contribute for all years of service.

MTAHQ, MTA Construction and Development and MTA Long Island Bus are required to contribute at an actuarially determined rate.

A summary of the aggregate actual contributions made to each pension plan for the years ended December 31, 2021 and 2020 are as follows:

Year-ended December 31,	2	021	2	2020
	Actual	Employer	Actual	Employer
(\$ in millions)	Contr	ributions	Cont	ributions
Additional Plan	\$	70.6	\$	68.7
MaBSTOA Plan		156.2		159.5
MNR Cash Balance Plan		- *		- *
MTA Defined Benefit Plan		396.1		394.0
NYCERS		842.2		882.7
NYSLERS		16.3		14.5
Total	\$	1,481.4	\$	1,519.4
MaBSTOA Plan MNR Cash Balance Plan MTA Defined Benefit Plan NYCERS NYSLERS	<u>\$</u>	156.2	<u>\$</u>	159.5 - * 394.0 882.7 14.5

<sup>\*</sup>MNR Cash Balance Plan's actual employer contribution for the years ended December 31, 2021 and 2020 was \$0 and \$0, respectively.



#### Net Pension Liability

The MTA's net pension liabilities for each of the pension plans reported at December 31, 2021 and 2020 were measured as of the fiscal year-end dates for each respective pension plan. The total pension liabilities used to calculate those net pension liabilities were determined by actuarial valuations as of each pension plan's valuation date, and rolled forward to the respective year-ends for each pension plan. Information about the fiduciary net position of each qualified pension plan's fiduciary net position has been determined on the same basis as reported by each respective qualified pension plan. For this purpose, benefits and refunds are recognized when due and payable in accordance with the terms of the respective qualified pension plan, and investments are reported at fair value. The following table provides the measurement and valuation dates used by each pension plan to calculate the MTA's aggregate net pension liability.

	Plan Measurement	Plan Valuation	Plan Measurement	Plan Valuation
Pension Plan	Date	Date	Date	Date
Additional Plan	December 31, 2020	January 1, 2020	December 31, 2019	January 1, 2019
MaBSTOA Plan	December 31, 2020	January 1, 2020	December 31, 2019	January 1, 2019
MNR Cash Balance Plan	December 31, 2020	January 1, 2020	December 31, 2019	January 1, 2019
MTA Defined Benefit Plan	December 31, 2020	January 1, 2020	December 31, 2019	January 1, 2019
NYCERS	June 30, 2021	June 30, 2020	June 30, 2020	June 30, 2019
NYSLERS	March 31, 2021	April 1, 2020	March 31, 2020	April 1, 2019

# Pension Plan Fiduciary Net Position

Detailed information about the fiduciary net position of the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan, MTA Defined Benefit Plan, NYCERS plan and the NYSLERS plan is available in the separately issued pension plan financial reports for each respective plan.



# Actuarial Assumptions

The total pension liabilities in each pension plan's actuarial valuation dates were determined using the following actuarial assumptions for each pension plan, applied to all periods included in the measurement date:

	Addi	tional Plan	MaBST	OA Plan	MNR Cash Balance Plan			
Valuation Date:	January 1, 2020	January 1, 2019	January 1, 2020	January 1, 2019	January 1, 2020	January 1, 2019		
Investment Rate of Return	6.50% per annum, net of investment expenses.	•		6.50% per annum, net of investment expenses.	3.00% per annum, net of investment expenses.	3.50% per annum, net of investment expenses.		
Salary Increases	3.00%	3.00%	Reflecting general wage, merit and promotion increses of 3.5% to 4.0% for operating and non-operating employees per year. Larger increases are assumed in the first 5 years of a member's career.	Reflecting general wage, merit and promotion increases of 3.5% for operating employees and 4.0% for non- operating employees per year. Larger increases are assumed in the first 5 years of a member's career.	Not applicable Not applicable			
Inflation	2.25%; 3.25% for Railroad Retirement Wage Base.	2.25%; 3.25% for Railroad Retirement Wage Base.	2.25%.	2.25%.	2.25%.	2.25%.		
Cost-of Living Adjustments	Not applicable	Not applicable	1.35% per annum.	1.35% per annum.	Not applicable	Not applicable		
	MTA Defi	ned Benefit Plan	NYO	CERS	NY	SLERS		
Valuation Date:	January 1, 2020	January 1, 2019	June 30, 2020	June 30, 2019	April 1, 2020	April 1, 2019		
Investment Rate of Return	6.50% per annum, net of investment expenses.	6.50% per annum, net of investment expenses.	7.00% per annum, net of expenses.	7.00% per annum, net of expenses.	5.90% per annum, including inflation, net of investment expenses.	6.80% per annum, includin inflation, net of investment expenses.		

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Valuation Date:	January 1, 2020	January 1, 2019	June 30, 2020	June 30, 2019	April 1, 2020	April 1, 2019
Investment Rate of Return	6.50% per annum, net of investment expenses.	6.50% per annum, net of investment expenses.	7.00% per annum, net of expenses.	7.00% per annum, net of expenses.	5.90% per annum, including inflation, net of investment expenses.	6.80% per annum, including inflation, net of investment expenses.
Salary Increases	Varies by years of employment, and employee group; 2.75% General Wage Increases for TWU Local 100 MTA Bus hourly employees.	Varies by years of employment, and employee group; 2.75% General Wage Increases for TWU Local 100 MTA Bus hourly employees.	In general, merit and promotion increases plus assumed General Wage increases of 3.0% per year.	In general, merit and promotion increases plus assumed General Wage increases of 3.0% per year.	4.4% in ERS, 6.2 % in PFRS	4.2% in ERS, 5.0% in PFRS
Inflation	2.25%; 3.25% for Railroad Retirement Wage Base.	2.25%; 3.25% for Railroad Retirement Wage Base.	2.50%	2.50%	2.70%	2.50%
Cost-of Living Adjustments	60% of inflation assumption or 1.35%, if applicable.	60% of inflation assumption or 1.35%, if applicable.	1.5% per annum for Tiers 1, 2, 4 and certain Tier 3 and Tier 6 retirees. 2.5% per annum for certain Tier 3 and Tier 6 retirees.	1.5% per annum for Tiers 1, 2, 4 and certain Tier 3 and Tier 6 retirees. 2.5% per annum for certain Tier 3 and Tier 6 retirees.	1.40% per annum.	1.30% per annum.



#### **Mortality**

#### Additional Plan / MaBSTOA Plan/ MNR Cash Balance Plan and MTA Defined Benefit Plan:

The actuarial assumptions used in the January 1, 2020 and 2019 valuations for the MTA plans are based on an experience study covering the period from January 1, 2006 to December 31, 2011. The mortality assumption used in the January 1, 2020 and 2019 valuations are based on an experience study for all MTA plans covering the period from January 1, 2011 to December 31, 2015. The pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA, as recommended by the Society of Actuaries Retirement Plans Experience Committee. As generational tables, they reflect mortality improvements both before and after the measurement date.

<u>Pre-retirement</u>: The MTA plans utilized RP-2000 Employee Mortality Table for Males and Females with Blue collar adjustments.

<u>Post-retirement Healthy Lives</u>: Assumption utilized 95% of RP-2000 Healthy Annuitant mortality table for males with Blue Collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.

<u>Post-retirement Disabled Lives</u>: Assumption utilized in the January 1, 2020 and 2019 valuation was the RP-2014 Disabled Annuitant mortality table for males and females. This assumption was not applicable for the Additional Plan and the MNR Cash Balance Plan.

#### **NYCERS:**

Pursuant to Section 96 of the New York City Charter, an independent actuarial firm conducts studies of the actuarial assumptions used to value liabilities of the NYCERS pension plan every two years. In accordance, with the Administrative Code of the City of New York ("ACNY"), the Board of Trustees of NYCERS are to periodically review and adopt actuarial assumptions as proposed by the Actuary for use in the determination of Employer Contributions, which are also generally used to determine the total pension liability, as applicable.

Mortality tables for service and disability pensioners were developed from experience studies of the NYCERS Plan. The mortality tables for beneficiaries were developed from an experience review.

The actuarial assumptions used in the June 2019 valuation is based on the most recent actuarial experience study and recommendations prepared by Bolton, Inc. for the four-year and ten-year periods ended June 30, 2017. Based, in part, on this report issued in June 2019, the Actuary proposed and the Board of Trustees of NYCERS adopted changes in actuarial assumptions including a change to Mortality Improvement Scale MP-2018 beginning in Fiscal Year 2019. The actuarial assumptions used in the June 2018 valuation was based on the previous study by Gabriel, Roeder, Smith & Company ('GRS") published in October 2015 for the four-year and ten-year periods ended June 30, 2013. Based, in part, on the GRS Report, the Actuary proposed, and the Boards of Trustees of the NYCERS adopted, new post-retirement mortality tables including the application of Mortality Improvement Scale MP-2015 for use in determining employer contributions beginning in Fiscal Year 2016. Scale MP-2015 replaced Mortality Improvement Scale AA.

#### **NYSLERS:**

The actuarial assumptions used in the April 1, 2020 and April 1, 2019 valuations are based on the results of an actuarial experience study for the period April 1, 2010 through March 31, 2015. The annuitant mortality rates are based on the April 1, 2015 - March 31, 2020 System experience with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2020. The previous actuarial valuation as of April 1, 2019 used April 1,2020 – March 31, 2015 System experience, mortality improvements based on the Society of Actuaries' Scale MP-2018.

#### Expected Rate of Return on Investments

The long-term expected rate of return on pension plan investments for each pension plan is presented in the following table.

Pension Plan	Plan Measurement Date	Rate
Additional Plan	December 31, 2020	6.50%
MaBSTOA Plan	December 31, 2020	6.50%
MNR Cash Balance Plan	December 31, 2020	3.00%
MTA Defined Benefit Plan	December 31, 2020	6.50%
NYCERS	June 30, 2021	7.00%
NYSLERS	March 31, 2021	5.90%

For the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan, MTA Defined Benefit Plan, NYCERS plan and NYSLERS plan, the long-term expected rate of return on investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of plan investment expense and



inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

The target asset allocation of each of the funds and the expected real rate of returns ("RROR") for each of the asset classes are summarized in the following tables for each of the pension plans:

	Addition	al Plan	MaBSTOA Plan			
		Long - Term		Long - Term		
	Target Asset	<b>Expected Real</b>	Target Asset	<b>Expected Real</b>		
Asset Class	Allocation	Rate of Return	Allocation	Rate of Return		
US Core Fixed Income	9.00%	0.78%	9.00%	0.78%		
US Long Bonds	1.00%	1.82%	1.00%	1.82%		
US Bank / Leveraged Loans	7.00%	2.73%	7.00%	2.73%		
US Inflation-Indexed Bonds	2.00%	-0.07%	2.00%	-0.07%		
US High Yield Bonds	4.00%	3.84%	4.00%	3.84%		
Emerging Markets Bonds	2.00%	4.19%	2.00%	4.19%		
US Large Caps	12.00%	3.93%	12.00%	3.93%		
US Small Caps	6.00%	5.11%	6.00%	5.11%		
Foreign Developed Equity	12.00%	5.74%	12.00%	5.74%		
Emerging Markets Equity	5.00%	7.53%	5.00%	7.53%		
Global REITs	1.00%	5.65%	1.00%	5.65%		
Private Real Estate Property	4.00%	3.85%	4.00%	3.85%		
Private Equity	9.00%	9.02%	9.00%	9.02%		
Commodities	1.00%	2.26%	1.00%	2.26%		
Hedge Funds - MultiStrategy	16.00%	2.99%	16.00%	2.99%		
Hedge Funds - Event-Driven	6.00%	3.16%	6.00%	3.16%		
Hedge Funds - Equity Hedge	3.00%	3.42%	3.00%	3.42%		
	100.00%		100.00%			
Assumed Inflation - Mean		2.25%		2.25%		
Assumed Inflation - Standard Deviation		1.65%		1.65%		
Portfolio Nominal Mean Return		6.44%		6.44%		
Portfolio Standard Deviation		11.47%		11.47%		
Long Term Expected Rate of Return selected by MTA		6.50%		6.50%		

	MTA Defined	Benefit Plan	MNR Cash B	MNR Cash Balance Plan			
Asset Class	Target Asset Allocation	Long - Term Expected Real Rate of Return	Target Asset Allocation	Long - Term Expected Real Rate of Return			
US Core Fixed Income	9.00%	0.78%	100.00%	0.45%			
US Long Bonds	1.00%	1.82%	-	-			
US Bank / Leveraged Loans	7.00%	2.73%	_	_			
US Inflation-Indexed Bonds	2.00%	-0.07%	-	-			
US High Yield Bonds	4.00%	3.84%	-	-			
Emerging Markets Bonds	2.00%	4.19%	-	-			
US Large Caps	12.00%	3.93%	-	-			
US Small Caps	6.00%	5.11%	-	-			
Foreign Developed Equity	12.00%	5.74%	-	-			
Emerging Markets Equity	5.00%	7.53%	-	=			
Global REITs	1.00%	5.65%	-	-			
Private Real Estate Property	4.00%	3.85%	-	-			
Private Equity	9.00%	9.02%	-	=			
Commodities	1.00%	2.26%					
Hedge Funds - MultiStrategy	16.00%	2.99%	-	-			
Hedge Funds - Event-Driven	6.00%	3.16%	-	-			
Hedge Funds - Equity Hedge	3.00%	3.42%		-			
	100.00%		100.00%				
Assumed Inflation - Mean		2.25%		2.25%			
Assumed Inflation - Standard Deviation		1.65%		1.65%			
Portfolio Nominal Mean Return		6.44%		2.70%			
Portfolio Standard Deviation		11.47%		3.85%			
Long Term Expected Rate of Return selected by MTA		6.50%		3.00%			



	NYCI	ERS	NYSL	ERS
		Long - Term		Long - Term
	Target Asset	Asset Expected Real Target		<b>Expected Real</b>
Asset Class	Allocation	Rate of Return	Allocation	Rate of Return
U.S. Public Market Equities	27.00%	7.10%	32.00%	4.05%
International Public Market Equities	0.00%	0.00%	15.00%	6.30%
Developed Public Market Equities	12.00%	7.20%	0.00%	0.00%
Emerging Public Market Equities	5.00%	9.00%	0.00%	0.00%
Fixed Income	30.50%	1.80%	23.00%	0.00%
Private Equities	8.00%	11.30%	10.00%	6.75%
Alternatives (Real Assets, Hedge Funds)	0.00%	0.00%	3.00%	5.95%
Real Estate	7.50%	6.90%	9.00%	4.95%
Infrastructure	4.00%	6.00%	0.00%	0.00%
Absolute Return Strategies	0.00%	0.00%	0.00%	0.00%
Opportunistic Portfolio	6.00%	7.10%	3.00%	4.50%
Cash	0.00%	0.00%	1.00%	0.50%
Credit	0.00%	0.00%	4.00%	3.63%
	100.00%		100.00%	
Assumed Inflation - Mean		2.50%		2.70%
Long Term Expected Rate of Return		7.00%		5.90%

#### Discount rate

The discount rate used to measure the total pension liability of each pension plan is presented in the following table:

	Discount Rate									
Year ended December 31,	2021		2020							
	Plan Measurement		Plan Measurement							
Pension Plan	Date	Rate	Date	Rate						
Additional Plan	December 31, 2020	6.50%	December 31, 2019	6.50%						
MaBSTOA Plan	December 31, 2020	6.50%	December 31, 2019	6.50%						
MNR Cash Balance Plan	December 31, 2020	3.00%	December 31, 2019	3.50%						
MTA Defined Benefit Plan	December 31, 2020	6.50%	December 31, 2019	6.50%						
NYCERS	June 30, 2021	7.00%	June 30, 2020	7.00%						
NYSLERS	March 31, 2021	5.90%	March 31, 2020	6.80%						

The projection of cash flows used to determine the discount rate assumed that employee contributions will be made at the rates applicable for each pension plan and that employer contributions will be made at the rates determined by each pension plan's actuary. Based on those assumptions, each pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current and inactive plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.



# Changes in Net Pension Liability – Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan and the MTA Defined Benefit Plan

Changes in the MTA's net pension liability for the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan and the MTA Defined Benefit Plan for the year ended December 31, 2021, based on the December 31, 2020 measurement date, and for the year ended December 31, 2020, based on the December 31, 2019 measurement date, were as follows:

		<b>Additional Plan</b>	1	MaBSTOA Plan					
	Total	Plan	Net	Total	Plan	Net			
	Pension	Fiduciary	Pension	Pension	Fiduciary	Pension			
	Liability	<b>Net Position</b>	Liability	Liability	<b>Net Position</b>	Liability			
			(in thou	usands)					
Balance as of December 31, 2019	\$ 1,411,570	\$ 840,460	\$ 571,110	\$ 4,122,934	\$ 3,300,268	\$ 822,666			
Changes for fiscal year 2020:									
Service Cost	453	-	453	95,514	-	95,514			
Interest on total pension liability	86,918	-	86,918	266,588	-	266,588			
Effect of economic /demographic (gains) or									
losses	10,428	-	10,428	(720)	-	(720)			
Benefit payments	(152,046)	(152,046)	-	(237,930)	(237,930)	-			
Administrative expense	-	(612)	612	-	(244)	244			
Member contributions	-	140	(140)	-	24,709	(24,709)			
Net investment income	-	4,024	(4,024)	-	60,327	(60,327)			
Employer contributions	-	68,724	(68,724)	-	159,486	(159,486)			
Balance as of December 31, 2020	\$ 1,357,323	\$ 760,690	\$ 596,633	\$ 4,246,386	\$ 3,306,616	\$ 939,770			

		Addi	tional Plan				MaBSTOA Plan					
	Total		Plan		Net		Total		Plan		Net	
	Pension	Fi	iduciary		Pension		Pension	1	iduciary	Pension		
	 Liability	Net	t Position		Liability	]	Liability	N	et Position	_1	Liability	
	(in thousands)				ids)							
Balance as of December 31, 2018	\$ 1,411,144	\$	819,317	\$	591,827	\$	3,811,124	\$	2,844,402	\$	966,722	
Changes for fiscal year 2019:												
Service Cost	621		-		621		89,814		-		89,814	
Interest on total pension liability	93,413		-		93,413		265,454		-		265,454	
Effect of economic /demographic (gains)												
or losses	13,455		-		13,455		9,011		-		9,011	
Effect of assumption changes or inputs	50,191		-		50,191		168,752		-		168,752	
Benefit payments	(157,254)		(157,254)		-		(221,221)		(221,221)		-	
Administrative expense	-		(718)		718		-		(220)		220	
Member contributions	-		249		(249)		-		23,552		(23,552)	
Net investment income	-		116,092		(116,092)		-		447,365		(447,365)	
Employer contributions	-		62,774		(62,774)		-		206,390		(206,390)	
Balance as of December 31, 2019	\$ 1,411,570	\$	840,460	\$	571,110	\$	4,122,934	\$	3,300,268	\$	822,666	



		MNF	R Cash Bal	ance l	Pla	n	MTA Defined Benefit Plan				
	7	<b>Fotal</b>	Plan			Net	Total	Plan		Net	
		ension	Fiduciary			Pension	Pension		Fiduciary		Pension
	Li	ability	Net Posit	ion	1	Liability	Liability	N	et Position		Liability
		(in thousands)									
Balance as of December 31, 2019	\$	448	\$	455	\$	(7) \$	6,510,686	\$	4,784,224	\$	1,726,462
Changes for fiscal year 2020:											
Service Cost		-		-		-	213,494		-		213,494
Interest on total pension liability		14		-		14	427,672		-		427,672
Effect of economic / demographic (gains) or											
losses		10		-		10	92,019		-		92,019
Effect of assumption changes or inputs		11		-		11	_		_		-
Benefit payments		(105)		(105)		-	(293,836)		(293,836)		-
Administrative expense		` -		3		(3)	-		(3,660)		3,660
Member contributions		-		-		-	-		32,006		(32,006)
Net investment income		-		32		(32)	-		99,045		(99,045)
Employer contributions		-		9		(9)	-		394,986		(394,986)
Balance as of December 31, 2020	\$	378	\$	394	\$	(16) \$	6.950.035	\$	5.012.765	\$	1.937.270

	MNR Cash Balance Plan					MTA Defined Benefit Plan					
		Total ension	Plan Fiduciary	Net Pension	Total Pension		Plan Fiduciary		Net Pension		
	Li	ability	<b>Net Position</b>	Liability		Liability	N	et Position		Liability	
		(in thousands)									
Balance as of December 31, 2018	\$	479	\$ 471	\$ 8	\$	5,488,490	\$	4,024,480	\$	1,464,010	
Changes for fiscal year 2019:											
Service Cost		-	-	-		173,095		-		173,095	
Interest on total pension liability		18	-	18		387,193		-		387,193	
Effect of economic / demographic (gains)											
or losses		4	-	4		35,935		-		35,935	
Effect of assumption changes or inputs		-	-	-		690,958		-		690,958	
Benefit payments		(53)	(53)	-		(264,985)		(264,985)		-	
Administrative expense		-	(3)	3		-		(3,408)		3,408	
Member contributions		-	-	-		-		31,504		(31,504)	
Net investment income		-	40	(40)	)	-		651,919		(651,919)	
Employer contributions		-	-	` -		-		344,714		(344,714)	
Balance as of December 31, 2019	\$	448	\$ 455	§ (7)	\$	6.510.686	\$	4.784.224	\$	1.726.462	



## Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the MTA's net pension liability calculated for the Additional Plan, MaBSTOA Plan, MNR Cash Balance Plan and the MTA Defined Benefit Plan using the discount rate as of each measurement date, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the actual discount rate used for each measurement date:

Measurement Date:	I	ecember 31, 202	20	December 31, 2019							
		Discount			Discount						
	1% Decrease	Rate	1% Increase	1% Decrease	Rate	1% Increase					
	(5.5%)	(6.5%)	(7.5%)	(5.5%)	(6.5%)	(7.5%)					
		(in thou	ısands)		(in tho	usands)					
Additional Plan	\$ 702,167	\$ 596,633	\$ 504,666	\$ 682,677	\$ 571,110	\$ 474,087					
MaBSTOA Plan	1,421,343	939,770	531,498	1,293,875	822,666	422,759					
MTA Defined Benefit Plan	2,812,063	1,937,270	1,200,642	2,551,551	1,726,462	1,031,686					
		Discount			Discount						
	1% Decrease	Rate	1% Increase	1% Decrease	Rate	1% Increase					
	(2.0%)	(3.0%)	(4.0%)	(2.5%)	(3.5%)	(4.5%)					
		(in whole	dollars)		(in whol	e dollars)					
MNR Cash Balance Plan	\$ 7,343	\$ (15,852)	\$ (36,311)	\$ 17,379	\$ (6,494)	\$ (27,526)					

### The MTA's Proportion of Net Pension Liability – NYCERS and NYSLERS

The following table presents the MTA's proportionate share of the net pension liability of NYCERS based on the June 30, 2020 and June 30, 2019 actuarial valuations, rolled forward to June 30, 2021 and June 30, 2020, respectively, and the proportion percentage of the aggregate net pension liability allocated to the MTA:

		NYC	ERS	
	Ju	ne 30, 2021	Ju	ine 30, 2020
		(\$ in the	usands	)
MTA's proportion of the net pension liability		22.218%		24.420%
MTA's proportionate share of the net pension liability	\$	1,424,952	\$	5,147,445

The following table presents the MTA's proportionate share of the net pension liability of NYSLERS based on the April 1, 2020 and April 1, 2019 actuarial valuations, rolled forward to March 31, 2021 and March 31, 2020, respectively, and the proportion percentage of the aggregate net pension liability allocated to the MTA:

		NYS	LERS	
	March	n 31, 2021	Mar	ch 31, 2020
		(\$ in the	ousands)	
MTA's proportion of the net pension liability		0.314%		0.346%
MTA's proportionate share of the net pension liability	\$	313	\$	91,524

The MTA's proportion of each respective Plan's net pension liability was based on the MTA's actual required contributions made to NYCERS for the plan's fiscal year-end June 30, 2021 and 2020 and to NYSLERS for the plan's fiscal year-end March 31, 2021 and 2020, relative to the contributions of all employers in each plan.



# Sensitivity of the MTA's Proportionate Share of the Net Pension Liability to Changes in the Discount Rate

The following presents the MTA's proportionate share of the net pension liability for NYCERS and NYSLERS calculated using the discount rate as of each measurement date, as well as what the proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the actual discount rate used as of each measurement date (\$ in thousands):

Measurement Date:		June 30, 2021			June 30, 2020	
	1% Decrease	Discount Rate	1% Increase	1% Decrease	Discount Rate	1% Increase
	(6.0%)	(7.0%)	(8.0%)	(6.0%)	(7.0%)	(8.0%)
NYCERS	\$ 3,738,91	) \$ 1,424,952	\$ (538,293)	\$ 7,695,327	\$ 5,147,445	\$ 2,997,039
Measurement Date:		March 31, 2021			March 31, 2020	
	1% Decrease	Discount Rate	1% Increase	1% Decrease	Discount Rate	1% Increase
	(4.9%)	(5.9%)	(6.9%)	(5.8%)	(6.8%)	(7.8%)
NYSLERS	\$ 86,87	3 \$ 313	\$ (79,515)	\$ 167,973	\$ 91,524	\$ 21,115

# Pension Expense, Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

For the years ended years ended December 31, 2021 and 2020, the MTA recognized pension expense related to each pension plan as follows (in \$ thousands):

	Decem	ber 3	1,			
Pension Plan	2021	2020				
Additional Plan	\$ 50,360	\$	108,956			
MaBSTOA Plan	140,280		146,811			
MNR Cash Balance plan	7		13			
MTA Defined Benefit Plan	413,652		345,744			
NYCERS	(47,824)		785,011			
NYSLERS	 8,189		32,944			
Total	\$ 564,664	\$	1,419,479			



For the years ended years ended December 31, 2021 and 2020, the MTA reported deferred outflow of resources and deferred inflow of resources for each pension plan as follows (in \$ thousands):

For the Year Ended		Addition	al Plan		MaBSTC	A Plan	MNR C	ash Balance	Plan	MTA Defined	Benefit Plan
December 31, 2021	De	erred	Deferred	I	Deferred	Deferred	Deferred	De	ferred	Deferred	Deferred
	Outf	ows of	Inflows of	O	utflows of	Inflows of	Outflows o	f Infl	ows of	Outflows of	Inflows of
	Res	ources	Resources	R	lesources	Resources	Resources	Res	ources	Resources	Resources
Differences between expected and											
actual experience	\$	-	\$	- \$	17,004	\$ 3,8	96 \$	- \$	- \$	218,415	\$ 13,714
Changes in assumptions		-		-	121,560		-	-	-	535,702	17,580
Net difference between projected and actual											
earnings on pension plan investments		27,816		-	57,062		-	-	19	72,382	-
Changes in proportion and differences											
between contributions and proportionate											
share of contributions		-		-	-		-	-	-	78,760	78,760
Employer contributions to the plan											
subsequent to the measurement											
of net pension liability		70,553		-	156,204		-	-	-	396,144	-
Total	\$	98,369	\$	- \$	351,830	\$ 3,8	96 \$	- \$	19 \$	1,301,403	\$ 110,054

For the Year Ended		NYC	ERS	6		NYSI	EF	RS		ТОТ	ΆL	ı
December 31, 2021	D	eferred		Deferred		Deferred		Deferred		Deferred		Deferred
	Ou	tflows of		Inflows of		Outflows of		Inflows of		Outflows of		Inflows of
	Re	esources		Resources	_	Resources	_	Resources	_	Resources	_	Resources
Differences between expected and												
actual experience	\$	365,770	\$	164,835	\$	\$ 3,822	\$	-	\$	605,011	\$	182,445
Changes in assumptions		1,318		176,775		57,548		1,085		716,128		195,440
Net difference between projected and actual												
earnings on pension plan investments		-		2,091,098		-		89,908		157,260		2,181,025
Changes in proportion and differences												
between contributions and proportionate												
share of contributions		55,095		353,104		3,424		2,823		137,279		434,687
Employer contributions to the plan												
subsequent to the measurement												
of net pension liability		451,816			_	16,284	_		_	1,091,001		
Total	\$	873,999	\$	2,785,812	9	\$ 81,078	\$	93,816	\$	2,706,679	\$	2,993,597



For the Year Ended		Addition	ıal Plan		MaBSTO	ÒΑ	Plan	MNR Cash	Bala	ance Plan		MTA Defined	Benefit Plan
December 31, 2020	De	ferred	Deferred		Deferred		Deferred	Deferred		Deferred		Deferred	Deferred
	Outf	lows of	Inflows of		Outflows of		Inflows of	Outflows of		Inflows of		Outflows of	Inflows of
	Res	ources	Resources		Resources		Resources	Resources	_	Resources	_	Resources	Resources
Differences between expected and													
actual experience	\$	-	\$	- \$	23,101	\$	14,237	\$ -	\$	-	-	\$ 177,115	\$ 17,059
Changes in assumptions		-		-	147,353		-	-		-	-	617,371	27,347
Net difference between projected and actual													
earnings on pension plan investments		-	16,07	2	-		100,798	-		4	1	-	146,073
Changes in proportion and differences													
between contributions and proportionate													
share of contributions		-		-	-		-	-			-	74,933	74,933
Employer contributions to the plan													
subsequent to the measurement													
of net pension liability		68,723			159,486				_		-	393,961	<del>-</del>
Total	\$	68,723	\$ 16,07	2 \$	329,940	\$	115,035	\$ -	\$		1	\$ 1,263,380	\$ 265,412

For the Year Ended		NYC	ERS			NYSL	ER	as.		тот	ΓAΙ	
December 31, 2020		Deferred		Deferred	_	Deferred		Deferred	_	Deferred		Deferred
	(	Outflows of	I	nflows of		Outflows of		Inflows of		Outflows of		Inflows of
		Resources	I	Resources		Resources		Resources		Resources		Resources
Differences between expected and					_		_		_			
actual experience	\$	518,473	\$	232,185	\$	5,386	\$	-	\$	724,075	\$	263,481
Changes in assumptions		2,169		152,466		1,842		1,591		768,735		181,404
Net difference between projected and actual												
earnings on pension plan investments		244,467				46,920		-		291,387		262,947
Changes in proportion and differences												
between contributions and proportionate												
share of contributions		108,400		13,841		3,287		-		186,620		88,774
Employer contributions to the plan												
subsequent to the measurement												
of net pension liability		445,974		_		14,533		<u> </u>		1,082,677		<u>-</u>
Total	\$	1,319,483	\$	398,492	\$	71,968	\$	1,591	\$	3,053,494	\$	796,606

The annual differences between the projected and actual earnings on investments are amortized over a five-year closed period beginning the year in which the difference occurs.

Recognition Period (in years)



The following table presents the recognition periods used by each pension plan to amortize the annual differences between expected and actual experience, changes in proportion and differences between employer contributions and proportionate share of contributions, and changes in actuarial assumptions, beginning the year in which the deferred amount occurs.

	-	teeogmition reriou (in years)	
Pension Plan	Differences between expected and actual experience	Changes in proportion and differences between employer contributions and proportionate share of contributions	Changes in actuarial assumptions
Additional Plan	1.00	N/A	1.00
MaBSTOA Plan	6.60	N/A	6.60
MNR Cash Balance Plan	1.00	N/A	1.00
MTA Defined Benefit Plan	8.60	8.60	8.60
NYCERS	6.04	6.04	6.04
NYSLERS	5.00	5.00	5.00

For the years ended December 31, 2021 and 2020, \$1,091.0 and \$1,082.7 were reported as deferred outflows of resources related to pensions resulting from the MTA's contributions subsequent to the measurement date which will be recognized as a reduction of the net pension liability in the year ending December 31, 2022 and December 31, 2021, respectively. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions at December 31, 2021 will be recognized as pension expense as follows:

	A0	lditional Plan	M	aBSTOA Plan	 INR Cash Balance plan	-	MTA Defined Benefit Plan in thousands)	_	NYCERS	 VYSLERS	_	Total
Year Ending December 31:	_											
2022	\$	5,306	\$	34,070	\$ (4)	9	121,675	\$	(587,273)	\$ (4,659)	\$	(430,885)
2023		15,907		70,407	(4)		175,015		(556,670)	(1,630)		(296,975)
2024		(2,921)		9,373	(8)		82,812		(483,728)	(5,029)		(399,501)
2025		9,524		57,140	(3)		146,542		(643,865)	(17,704)		(448,366)
2026		-		20,804	-		104,257		(88,453)	-		36,608
Thereafter		-		(64)	-		164,904		(3,640)	-		161,200
	\$	27,816	\$	191,730	\$ (19)		795,205	\$	(2,363,629)	\$ (29,022)	\$	(1,377,919)

# **Deferred Compensation Program**

Description - The Deferred Compensation Program consists of two defined contribution plans that provide benefits based solely on the amount contributed to each participant's account(s), plus or minus any income, expenses and gains/losses. The Deferred Compensation Program is comprised of the Deferred Compensation Plan For Employees of the Metropolitan Transportation Authority ("MTA"), its Subsidiaries and Affiliates ("457 Plan") and the Thrift Plan For Employees of the Metropolitan Transportation Authority, its Subsidiaries and Affiliates ("401(k) Plan"). Certain MTA Related Groups employees are eligible to participate in both deferred compensation plans. Both Plans are designed to have participant charges, including investment and other fees, cover the costs of administering the Deferred Compensation Program.

Participation in the 401(k) Plan is now available to non-represented employees and, after collective bargaining, most represented employees. All amounts of compensation deferred under the 401(k) Plan, and all income attributable to such compensation, less expenses and fees, are held in trust for the exclusive benefit of the participants and their beneficiaries. Accordingly, the 401(k) Plan is not reflected in the accompanying consolidated statements of net position.

The Deferred Compensation Program is administered and may be amended by the Deferred Compensation Committee.

As the Deferred Compensation Program's asset base and contribution flow increased, participants' investment options were expanded by the Deferred Compensation Committee with the advice of its Financial Advisor to provide greater diversification and flexibility. In 1988, after receiving an IRS determination letter for the 401(k) Plan, the MTA offered its managers the choice of either participating in the 457 Plan or the 401(k) Plan. By 1993, the MTA offered eight investment funds: a Guaranteed Interest Account Fund, a Money Market Fund, a Common Stock Fund, a Managed Fund, a Stock Index Fund, a Government Income Fund, an International Fund and a Growth Fund.

In 1998, the Deferred Compensation Committee approved the unbundling of the Plans. In 2008, the Plans' investment choices were restructured to set up a four-tier strategy:

- Tier 1 The MTA Asset Allocation Programs offer two options for those participants who would like to make retirement investing easy the MTA Target Year Funds and Goal maker. Investments will be automatically diversified among a range of investment options.
- Tier 2 The MTA Index Funds offer a tier of index funds, which invest in the securities of companies that are included in a selected index, such as the Standard & Poor's 500 (large cap) Index or Barclays Capital U.S. Aggregate (bond) index. The typical objective of an index fund is to achieve approximately the same return as that specific market index. Index funds provide investors with lower-cost investments because they are less expensive to administer than actively managed funds.
- Tier 3 The MTA Actively Managed Portfolios, which are comprised of actively managed portfolios that are directed by one or a team of professional managers who buy and sell a variety of holdings in an effort to outperform selected indices. The funds provide a diversified array of distinct asset classes, with a single option in each class. They combine the value and growth disciplines to create a "core" portfolio for the mid-cap and international categories.
- Tier 4 The Self-Directed Mutual Fund Option is designed for the more experienced investors. The fund offers access to an expanded universe of mutual funds from hundreds of well-known mutual fund families. Participants may invest only a portion of their account balances in this Tier.

In 2011, the Deferred Compensation Program began offering Roth contributions. Employees can elect after-tax Roth contributions and before-tax contributions in both the 401(k) Plan and the 457 Plan. The total combination of Roth after-tax contributions and regular before-tax contributions cannot exceed the IRS maximum of \$19,500 dollars or \$26,000 dollars for those over age 50 for the year ended December 31, 2020.

The two Plans offer the same array of investment options to participants. Eligible participants in the Deferred Compensation Program include employees (and in the case of MTA Long Island Bus, former employees) of:

- MTA
- MTA Long Island Rail Road
- MTA Bridges and Tunnels
- MTA Long Island Bus
- MTA Metro-North Railroad
- MTA New York City Transit
- MTA Staten Island Rapid Transit
- MTA Capital and Development
- MTA Bus

Matching Contributions - MTA Bus on behalf of certain MTA Bus employees, MTA Metro-North Railroad on behalf of certain MNR employees who opted-out of participation in the MTA Defined Benefit Pension Plan and MTA on behalf of certain represented MTA Business Service Center employees and on behalf of certain MTA Police Officers, make contributions to the 401(k) Plan. The rate for the employer contribution varies.

MTA Bus – Effective in 2019, there are no employees receiving these employer contributions. Prior to 2019, certain members who were employed by Queens Surface Corporation on February 26, 2005, and who became employees of MTA Bus on February 27, 2005, receive a matching contribution equal to 50% of member's before-tax contributions provided that the maximum matching contribution shall not exceed 3% of the member's base pay. MTA Bus also makes a basic contribution equal to 2% of the member's compensation. These contributions vest as follows:

Years of Service	Vested Percentage
Less than 2	0%
2	20%
3	40%
4	60%
5	80%
6 or more	100%



MTA Metro-North Railroad – MNR employees represented by certain unions and who elected to opt-out of participation in the MTA Defined Benefit Pension Plan receive an annual employer contribution equal to 4% of the member's compensation. Effective on the first full pay period following the nineteenth anniversary date of an eligible MNR member's continuous employment, MTA Metro-North Railroad contributes an amount equal to 7% of the member's compensation. Eligible MNR members vest in these employer contributions as set forth below:

Years of Service	Vested Percentage
Less than 5	0%
5 or more	100%

MTA Headquarters - Police - For each plan year, the MTA shall make contributions to the account of each eligible MTA Police Benevolent Association member in the amounts required by the collective bargaining agreement ("CBA") and subject to the contribution limits set forth in the CBA. These contributions shall be made monthly and shall be considered MTA Police contributions. Members are immediately 100% vested in these employer contributions.

MTA Headquarters – Commanding Officers - In addition, for each plan year, the MTA shall make contributions to the account of each eligible MTA Police Department Commanding Officers Benevolent Association member in the amounts required by the CBA and subject to the contribution limits set forth in the CBA. These contributions shall be made monthly and shall be considered MTA Police contributions. These members are immediately 100% vested in these employer contributions.

MTA Headquarters – Business Services - Effective January 1, 2011, all newly hired MTA Business Services Center employees represented by the Transportation Communications Union are eligible to receive a matching contribution up to a maximum of 3% of the participant's compensation. A participant's right to the balance in his or her matching contributions shall vest upon the first of the following to occur:

- 1. Completing 5 years of service,
- 2. Attaining the Normal Retirement Age of 62 while in continuous employment, or
- 3. Death while in continuous employment.

Additional Deposits (Incoming Rollover or Transfers) - Participants in the Deferred Compensation Program are eligible to roll over both their before-tax and after-tax assets from other eligible retirement plans into the 401(k) and 457 Plans. Under certain conditions, both Plans accepts rollovers from all eligible retirement plans (as defined by the Code), including 401(a), 457, 401(k), 403(b), and rollover IRAs.

**Forfeitures** – Non vested contributions are forfeited upon termination of employment. Such forfeitures are used to cover a portion of the pension plan's administrative expenses.

	December 31,		December 31,	
	2021		2020	
		(In thousan	ids)	
Employer 401K contributions	\$	3,939 \$	4,103	

#### 5. OTHER POSTEMPLOYMENT BENEFITS

The MTA participates in a defined benefit other postemployment benefits ("OPEB") plan for its employees, the Metropolitan Transportation Authority Retiree Welfare Benefits Plan ("OPEB Plan"). A description of the Plan follows:

# (1) Plan Description

The MTA Retiree Welfare Benefits Plan ("OPEB Plan") and the related Trust Fund ("Trust") was established on January 1, 2009 for the exclusive benefit of MTA retired employees and their eligible spouses and dependents, to fund some of the OPEB provided in accordance with the MTA's various collective bargaining agreements. Postemployment benefits are part of an exchange of salaries and benefits for employee services rendered. Amounts contributed to the OPEB Plan are held in an irrevocable trust and may not be used for any other purpose than to fund the costs of health and welfare benefits of its eligible participants.

The OPEB Plan and the Trust are exempt from federal income taxation under Section 115(1) of the Internal Revenue Code. The OPEB Plan is classified as a single-employer plan.

The OPEB Plan Board of Managers, comprised of the MTA Chairman, MTA Chief Financial Officer and MTA Director of Labor Relations, are the administrators of the OPEB Plan. The MTA Board has the right to amend, suspend or terminate the OPEB Plan. The OPEB Plan is a fiduciary component unit of the MTA and is in the Pension and Other Employee Benefit Trust Funds section of the MTA's basic financial statements.



The separate annual financial statements of the OPEB Plan may be obtained by writing to MTA Comptroller, 2 Broadway, 16th Floor, New York, New York, 10004 or at www.mta.info.

Benefits Provided — The benefits provided by the OPEB Plan include medical, pharmacy, dental, vision, life insurance and a Medicare supplemental plan. The different types of benefits provided vary by agency, employee type (represented employees versus non-represented) and the relevant collective bargaining agreements. Certain benefits are provided upon retirement as defined in the applicable pension plan. Certain agencies provide benefits to certain former employees if separated from service within 5 years of attaining retirement eligibility. Employees of the MTA are members of the following pension plans: the MTA Defined Benefit Plan, the Additional Plan, the MNR Cash Balance Plan, the MaBSTOA Plan, NYCERS, and NYSLERS. Certain represented employees of MTA Metro-North Railroad participate in the 401(k) Plan. Eligible employees of the MTA may elect to join the New York State Voluntary Defined Contribution Plan ("VDC").

The MTA participates in the New York State Health Insurance Program ("NYSHIP") and provides medical and prescription drug benefits, including Medicare Part B reimbursements, to many of its retirees. NYSHIP offers a Preferred Provider Organization ("PPO") plan and several Health Maintenance Organization ("HMO") plans. Represented MTA New York City Transit employees, other MTA New York City Transit former employees who retired prior to January 1, 1996 or January 1, 2001, MTA Staten Island Railway represented employees as of March 1, 2010, June 1, 2010 or January 1, 2013 depending on the union and MTA Bus retirees do not participate in NYSHIP. These benefits are provided either through a self-insured health plan, a fully insured health plan or an HMO.

The MTA is a participating employer in NYSHIP. The NYSHIP financial report can be obtained by writing to NYS Department of Civil Service, Employee Benefits Division, Alfred E. Smith Office Building, 805 Swan Street, Albany, NY 12239.

**OPEB Plan Eligibility** — To qualify for benefits under the OPEB Plan, a former employee of the MTA must:

- i. have retired;
- ii. be receiving a pension (except in the case of the 401(k) Plan);
- iii. have at least 10 years of credited service as a member of NYCERS, NYSLERS, the MTA Defined Benefit Plan, the Additional Plan, the MaBSTOA Plan, the MNR Cash Balance Plan, the 401(k) Plan or the VDC; and
- iv. have attained the minimum age requirement (unless within 5 years of commencing retirement for certain members). A represented retired employee may be eligible only pursuant to the relevant collective bargaining agreement.

Surviving Spouse and Other Dependents —

- Lifetime coverage is provided to the surviving spouse (not remarried) or domestic partner and surviving dependent children to age 26 of retired managers and certain non-represented retired employees.
- Represented retired employees must follow the guidelines of their collective bargaining agreements regarding
  continued health coverage for a surviving spouse or domestic partner and surviving dependents. The surviving
  spouse coverage continues until spouse is eligible for Medicare for represented employees of MTA New York City
  Transit and MTA Staten Island Railway, retiring on or after:
  - o May 21, 2014 for Transport Workers Union ("TWU") Local 100;
  - September 24, 2014 for Amalgamated Transit Union ("ATU") Local 726;
  - o October 29, 2014 for ATU Local 1056;
  - o March 25, 2015 for Transportation Communication Union ("TCU"); and
  - December 16, 2015 for United Transportation Union ("UTU") and American Train Dispatchers Association ("ATDA").
- Lifetime coverage is provided to the surviving spouse (not remarried) or domestic partner and surviving dependents of retired uniform members of the MTA Police Department.
- Lifetime coverage is provided to the surviving spouse (not remarried) or domestic partner and surviving dependent children to age 26 of uniformed members of the MTA Police Department whose death was sustained while in performance of duty.

The OPEB Plan Board of Managers has the authority to establish and amend the benefits that will be covered under the OPEB Plan, except to the extent that they have been established by collective bargaining agreement.



**Employees Covered by Benefit Terms** — As of July 1, 2019, the date of the most recent actuarial valuation, the following classes of employees were covered by the benefit terms:

	Number of Participants
Active plan members	73,588
Inactive plan members currently receiving benefit payments	46,994
Inactive plan members entitled to but not yet receiving benefit payments	186
Total	120,768

Contributions — The MTA is not required by law or contractual agreement to provide funding for the OPEB Plan, other than the "pay-as-you-go" ("PAYGO") amounts. PAYGO is the cost of benefits necessary to provide the current benefits to retirees and eligible beneficiaries and dependents. Employees are not required to contribute to the OPEB Plan. The OPEB Plan Board has the authority for establishing and amending the funding policy. For the years ended December 31, 2021 and 2020, the MTA paid \$813.2 and \$391.5 of PAYGO to the OPEB Plan, respectively. In addition, the OPEB Plan paid \$337.6 in OPEB benefits in 2020. The PAYGO amounts include an implicit rate subsidy adjustment of \$53 and \$69.5 for the years ended December 31, 2021 and 2020, respectively. The implicit rate subsidy adjustment of \$69.5 includes an additional adjustment of \$6.7 related to 2019, resulting in a net amount of \$62.8 for the year ended December 31, 2020. There were no additional prior year implicit rate subsidy adjustments for the year ended December 31, 2021.

During 2012, the MTA funded \$250 into the Trust and an additional \$50 during 2013. There have been no further contributions made to the Trust. The investment trust paid benefits in 2020 covering a portion of the year's benefit payments resulting in lower contributions than the payments for the year.

The discount rate estimates investment earnings for assets earmarked to cover retiree health benefits. Under GASB Statement No. 75, the discount rate depends on the nature of underlying assets for funded plans. Since the amount of benefits paid in 2020 exceeded the current market value of the assets, a depletion date is assumed to occur immediately. Therefore, the discount rate is set equal to the municipal bond index. The MTA elected the Bond Buyer General Obligation 20-Bond Municipal Bond Index. As a result, the discount rates as of December 31, 2020 and December 31, 2019, the measurement dates, are 2.12% and 2.74%, respectively.

Employer contributions include the implicit subsidy, or age-related subsidy inherent in the healthcare premiums structure. The implicit subsidy arises when an employer allows a retiree and their dependents to continue on the active plans and pay the active premiums. Retirees are not paying the true cost of their benefits because they have higher utilization rates than actives and therefore, are partially subsidized by the active employees. As shown in the following table, for the years ended December 31, 2020 and 2019, the employer made a cash payment for retiree healthcare of \$69,472 and \$76,758, respectively, as part of the employer's payment for active-employee healthcare benefits. For purposes of GASB Statement No. 75, this payment made on behalf of the active employees should be reclassified as benefit payments for retiree health care to reflect the retirees' underlying age-adjusted, retiree benefit costs.

Blended and Age-adjusted Premium	2020 Retirees	2019 Retirees
(in thousands)		
Total blended premiums	\$655,269	\$660,539
Employment payment for retiree healthcare	69,472	76,758
Net Payments	\$724,741	\$737,297

#### (2) Actuarial Assumptions

Actuarial valuation involves estimates of the value of reported amounts and assumptions about the probability of occurrence of events far into the future, such as future employment, mortality and health care cost trend. Actuarially determined amounts are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future.

Projections of benefits for financial reporting purposes are based on the substantive plan, which refers to the plan terms as understood by the employer and the plan members at the time of the valuation, including only changes to plan terms that have been made and communicated to employees. The projections include the types of benefits provided at the time of each valuation and the historical pattern of sharing benefit costs between the employer and plan members at that time. The MTA may not be obligated to provide the same types or levels of benefits to retirees in the future.



The total OPEB liability was determined by an actuarial valuation performed on July 1, 2019. Update procedures were used to roll forward the total OPEB liability to December 31, 2020 and December 31, 2019, the measurement dates. The actuarial valuations were performed using the following actuarial assumptions, applied to all periods included in the measurement, unless specified:

Valuation date	July 1, 2019	July 1, 2019
Measurement date	December 31, 2020	December 31, 2019
Discount rate	2.12%, net of expenses	2.74%, net of expenses
Inflation	2.25%	2.50%
Actuarial cost method	Entry Age Normal	Entry Age Normal
Amortization method	Level percentage of payroll	Level percentage of payroll
Normal cost increase factor	4.25%	4.50%

Salary increases Varies by years of service and differs for members of the various pension plans Varies by years of service and differs for members of the various pension plans

Healthcare Cost Trend — The healthcare trend assumption is based on the Society of Actuaries-Getzen Model version 2019 utilizing the baseline assumptions included in the model, except inflation of 2.25% for medical and pharmacy benefits. Additional adjustments apply based on percentage of costs associated with administrative expenses, aging factors, healthcare reform provisions including changes due to H.R. Bill 1865, separately for NYSHIP and self-insured benefits administered by MTA New York City Transit. These assumptions are combined with long-term assumptions for dental and vision benefits of an annual trend of 3.5% plus Medicare Part B reimbursements of an annual trend of 4.5%, but not more than projected medical and pharmacy trends. The self-insured trend is applied directly for represented employees of MTA New York City Transit, MTA Staten Island Railway and MTA Bus.

This valuation reflects updated healthcare-related assumptions, including changes due to H.R. Bill 1865 Further Consolidated Appropriations Act, 2020, which repealed the Cadillac Tax on health plans. This change decreased the MTA's OPEB liability by \$742.0 million as of the valuation date July 1, 2019 and reporting year-ended December 31, 2020 for GASB 75, using a discount rate of 4.10%.

**Healthcare Cost Trend Rates** — The following lists illustrative rates for the NYSHIP and self-insured trend assumptions (all amounts are in percentages).

_	NYSI	IIP	TBTA		Self-Ins	ured
Fiscal Year	< 65	>=65	< 65	>=65	< 65	>=65
2020	6.80%	5.90%	6.20%	3.70%	6.50%	5.10%
2021	6.20%	5.70%	5.80%	4.00%	6.10%	5.10%
2022	5.70%	5.40%	5.50%	4.60%	5.60%	5.10%
2023	5.10%	5.10%	5.10%	5.10%	5.10%	5.10%
2024	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
2025	4.90%	4.90%	4.90%	4.90%	4.90%	4.90%
2026	4.80%	4.80%	4.80%	4.80%	4.80%	4.80%
2027	4.70%	4.70%	4.70%	4.70%	4.70%	4.70%
2028	4.60%	4.60%	4.60%	4.60%	4.60%	4.60%
2029	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
2039	4.60%	4.60%	4.60%	4.60%	4.60%	4.60%
2049	4.80%	4.80%	4.80%	4.70%	4.80%	4.70%
2059	4.50%	4.50%	4.50%	4.50%	4.50%	4.50%
2069	4.20%	4.20%	4.20%	4.20%	4.20%	4.20%
2079	3.80%	3.80%	3.80%	3.80%	3.80%	3.80%
2089	3.80%	3.80%	3.80%	3.80%	3.80%	3.80%
2099	3.80%	3.80%	3.80%	3.80%	3.80%	3.80%

For purposes of applying the Entry Age Normal cost method, the healthcare trend prior to the valuation date is based on the ultimate rates, which are 4.0% for medical and pharmacy costs.



**Mortality** — Preretirement and postretirement healthy annuitant rates are projected on a generational basis using Scale AA. As a generational table, it reflects mortality improvements both before and after the measurement date. The postretirement mortality assumption is based on an experience analysis covering the period from January 1, 2011 to December 31, 2015 for the MTA-sponsored pension plans.

*Preretirement* — RP-2000 Employee Mortality Table for Males and Females with blue-collar adjustments. No blue-collar adjustments were used for management members of MTAHQ.

*Postretirement Healthy Lives* — 95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females. No blue collar or percentage adjustments were used for management members of MTAHQ.

Postretirement Disabled Lives — RP-2014 Disabled Annuitant mortality table for males and females.

# (3) Net OPEB Liability

At December 31, 2021 and 2020, the MTA reported a net OPEB liability of \$24,409 and \$21,117, respectively. The MTA's net OPEB liability was measured as of the OPEB Plan's fiscal year-ends of December 31, 2020 and December 31, 2019, respectively. The total OPEB liability used to calculate the net OPEB liability was determined by an actuarial valuation date of July 1, 2019 and rolled forward to the measurement date.

OPEB Plan Fiduciary Net Position — The fiduciary net position has been determined on the same basis used by the OPEB plan. The OPEB plan uses the accrual basis of accounting under which contributions from the employer are recognized when paid. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan. Investments are reported at fair value based on quoted market prices or Net Asset Value. Detailed information about the OPEB plan's fiduciary net position is available in the separately issued financial report or at www.mta.info.

Expected Rate of Return on Investments — The best-estimate range for the long term expected rate of return was determined by adding expected inflation to expected long-term real returns and reflecting expected volatility and correlation.

Asset Class	Index	Target Allocation	Long-Term Expected Arithmetic Real Rate of Return
U.S. cash	BAML 3-Month T-Bill	100.00%	-0.54%
Assumed Inflation - Mean Assumed Inflation - Standard Devi	ation		2.25% 1.65%
Portfolio Nominal Mean return Portfolio Standard Deviation			1.73% 1.20%
Long Term Expected Rate of Ret	urn selected by MTA		2.12%

**Discount Rate** — The plan's fiduciary net position was not projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the discount rate for calculating the total OPEB liability is equal to the single equivalent rate that results in the same actuarial present value as the long-term expected rate of return applied to benefit payments, to the extent that the plan's fiduciary net position is projected to be sufficient to make projected benefit payments, and the municipal bond rate applied to benefit payments, to the extent that the plan's fiduciary net position is not projected to be sufficient. Therefore, the discount rate is set equal to the Bond Buyer General Obligation 20-Bond Municipal Bond Index as of December 31, 2020 of 2.12%.

Changes in Net OPEB Liability — Changes in the MTA's net OPEB liability for the year ended December 31, 2021 based on the December 31, 2020 measurement date, and for the year ended December 31, 2020, based on the December 31, 2019 measurement date, were as follows:



		Total OPEB Liability	Plan Fiduciary Net Position (in thousands)	_	Net OPEB Liability
Balance as of December 31, 2019	\$	21,531,473	\$ 414,827	\$	21,116,646
Changes for the year:	*	,,	·,	•	,,
Service Cost		1,097,051	_		1,097,051
Interest on total OPEB liability		610,160	-		610,160
Effect of economic/demographic gains or losses		(43,890)	-		(43,890)
Effect of assumptions changes or inputs		1,939,528	-		1,939,528
Benefit payments		(724,741)	(724,741)		-
Employer contributions		-	387,371		(387,371)
Net investment income		-	(77,118)		77,118
Administrative expenses			(209)	_	209
Net changes		2,878,108	(414,697)	_	3,292,805
Balance as of December 31, 2020	\$	24,409,581	\$ 130	\$	24,409,451
		Total OPEB Liability	Plan Fiduciary Net Position	_	Net OPEB Liability
		OPEB	Fiduciary		OPEB
Balance as of December 31, 2018	\$	OPEB	Fiduciary Net Position	\$	OPEB
Balance as of December 31, 2018 Changes for the year:	\$	OPEB Liability	Fiduciary Net Position (in thousands)	\$	OPEB Liability
,	\$	OPEB Liability	Fiduciary Net Position (in thousands)	\$	OPEB Liability
Changes for the year:	\$	OPEB Liability 19,933,888	Fiduciary Net Position (in thousands)	\$	OPEB Liability 19,582,508
Changes for the year: Service Cost	\$	OPEB Liability  19,933,888  928,573	Fiduciary Net Position (in thousands)	\$	OPEB Liability  19,582,508  928,573
Changes for the year: Service Cost Interest on total OPEB liability	\$	OPEB Liability  19,933,888  928,573 840,532	Fiduciary Net Position (in thousands)	\$	OPEB Liability  19,582,508  928,573 840,532
Changes for the year: Service Cost Interest on total OPEB liability Effect of economic/demographic gains or losses Effect of assumptions changes or inputs	\$	OPEB Liability  19,933,888  928,573 840,532 247,871	Fiduciary Net Position (in thousands)		OPEB Liability  19,582,508  928,573 840,532 247,871
Changes for the year: Service Cost Interest on total OPEB liability Effect of economic/demographic gains or losses	\$	OPEB Liability  19,933,888  928,573 840,532 247,871 311,286	Fiduciary Net Position (in thousands) \$ 351,380		OPEB Liability  19,582,508  928,573 840,532 247,871
Changes for the year: Service Cost Interest on total OPEB liability Effect of economic/demographic gains or losses Effect of assumptions changes or inputs Benefit payments	\$	OPEB Liability  19,933,888  928,573 840,532 247,871 311,286	Fiduciary Net Position (in thousands)  \$ 351,380		OPEB Liability  19,582,508  928,573 840,532 247,871 311,286
Changes for the year: Service Cost Interest on total OPEB liability Effect of economic/demographic gains or losses Effect of assumptions changes or inputs Benefit payments Employer contributions Net investment income	\$	OPEB Liability  19,933,888  928,573 840,532 247,871 311,286	Fiduciary Net Position (in thousands)  \$ 351,380		OPEB Liability  19,582,508  928,573 840,532 247,871 311,286  (730,677)
Changes for the year: Service Cost Interest on total OPEB liability Effect of economic/demographic gains or losses Effect of assumptions changes or inputs Benefit payments Employer contributions	\$	OPEB Liability  19,933,888  928,573 840,532 247,871 311,286	Fiduciary Net Position (in thousands)  \$ 351,380		OPEB Liability  19,582,508  928,573 840,532 247,871 311,286 - (730,677) (63,647)

Sensitivity of the Net OPEB Liability to Changes in the Discount Rate — The following presents the net OPEB liability of the MTA, calculated using the discount rate as of each measurement date, as well as what the MTA's net OPEB liability would be if it were calculated using a discount rate that is 1-percentage point lower or 1-percentage point higher than the actual discount rate used for the measurement date (\$ in thousands):

Measurement Date:	December 31, 2020				
	1% Decrease	Discount Rate	1% Increase		
	(1.12%)	(2.12%)	(3.12%)		
Net OPEB liability	\$28,098,117	\$24,409,451	\$21,392,425		
Measurement Date:		December 31, 2019			
	1% Decrease	Discount Rate	1% Increase		
	(1.74%)	(2.74%)	(3.74%)		
Net OPEB liability	\$24,232,661	\$21,116,646	\$18,552,646		

Sensitivity of the Net OPEB Liability to Changes in the Healthcare Cost Trend Rates — The following presents the net OPEB liability of the MTA, calculated using the healthcare cost trend rates as of each measurement date, as well as what the MTA's net OPEB liability would be if it were calculated using trend rates that are 1-percentage point lower or 1-percentage point higher than the actual healthcare trend rate used for the measurement date (\$ in thousands):

Measurement Date:			
		Healthcare Cost	
	1% Decrease	Current Trend Rate*	1% Increase
Net OPEB liability	\$20,595,637	\$24,409,451	\$29,295,102
Measurement Date:		December 31, 2019	
		Healthcare Cost	
	1% Decrease	Current Trend Rate*	1% Increase
Net OPEB liability	\$18,031,859	\$21,116,646	\$25,019,480

<sup>\*</sup>For further details, refer to the Health Care Cost Trend Rates tables in the Actuarial Assumptions section of this Note Disclosure

# (4) OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB

For the years ended December 31, 2021 and 2020, the MTA recognized OPEB expense of \$1.87 billion and \$1.68 billion, respectively.

At December 31, 2021 and 2020, the MTA reported deferred outflows of resources and deferred inflows of resources related to OPEB as follows (\$ in thousands):

	December 31, 2021			December 31, 2020			2020		
	Deferred Outflows of Resources		Outflows of Inflows		s of Inflows of Outflows of Inflo		Outflows of		Deferred nflows of Resources
Differences between expected and actual experience	\$	192,919	\$	50,007	\$	225,359	\$	14,158	
Changes of assumptions		2,353,287		1,070,351		814,808		1,313,612	
Net difference between projected and actual earnings on OPEB plan investments		60,552		-		-		17,409	
Changes in proportion and differences between contributions and proportionate share of contributions		612,892		612,892		385,488		385,488	
Employer contributions to the plan subsequent to the measurement of net OPEB liability		813,195		-		391,529		-	
Total	\$	4,032,845	\$	1,733,250	\$	1,817,184	\$	1,730,667	

The annual differences between the projected and actual earnings on investments are amortized over a 5-year closed period beginning the year in which the difference occurs. The annual differences between expected and actual experience and changes in assumptions are amortized over a 8.1-year closed period, beginning the year in which the deferred amount occurs.

For the years ended December 31, 2021 and 2020, \$813.2 and \$391.5 were reported as deferred outflows of resources related to OPEB. This amount includes both MTA's contributions subsequent to the measurement date and an implicit rate subsidy adjustment that will be recognized as a reduction of the net OPEB liability in the year ended December 31, 2022 and December 31, 2021, respectively. Other amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB at December 31, 2021 will be recognized in OPEB expense as follows:

Year ending December 31:	2022	\$ 195,627
	2023	200,902
	2024	192,305
	2025	125,462
	2026	204,708
	Thereafter	567,396
		\$ 1,486,400

#### 6. CAPITAL ASSETS

Capital assets and improvements include all land, buildings, equipment, and infrastructure of the MTA having a minimum useful life of two years and having a cost of more than \$25 thousand.

Capital assets are stated at historical cost, or at estimated historical cost based on appraisals, or on other acceptable methods when historical cost is not available. Capital leases are classified as capital assets in amounts equal to the lesser of the fair market value or the present value of net minimum lease payments at the inception of the lease.



Accumulated depreciation and amortization are reported as reductions of fixed assets. Depreciation is computed using the straight-line method based upon estimated useful lives of 25 to 50 years for buildings, 2 to 40 years for equipment, and 25 to 100 years for infrastructure. Capital lease assets and leasehold improvements are amortized over the term of the lease or the life of the asset whichever is less. Capital assets consist of the following at December 31, 2019, December 31, 2020 and December 31, 2021 (in millions):

	Dece	ealance ember 31, 2019	Additions /	_	eletions / assifications	De	Balance ecember 31, 2020	dditions /	Deletions / lassifications	Dece	alance ember 31, 2021
Capital assets not being depreciated:											
Land	\$	223	\$ 25	\$	-	\$	248	\$ 2	\$ 1	\$	249
Construction work-in-progress		20,158	7,145		5,528		21,775	 5,556	 3,954		23,377
Total capital assets not being depreciated		20,381	 7,170		5,528		22,023	 5,558	 3,955		23,626
Capital assets being depreciated:											
Buildings and structures		19,559	1,328		28		20,859	1,650	425		22,084
Bridges and tunnels		4,226	166		-		4,392	195	-		4,587
Equipment:											
Passenger cars and locomotives		13,872	332		-		14,204	151	24		14,331
Buses		3,677	41		30		3,688	317	136		3,869
Infrastructure		27,728	1,121		-		28,849	1,177	22		30,004
Other		26,613	 1,799		21		28,391	 1,325	 12		29,704
Total capital assets being depreciated		95,675	4,787		79		100,383	 4,815	619		104,579
Less accumulated depreciation:											
Buildings and structures		7,944	557		3		8,498	607	25		9,080
Bridges and tunnels		833	38		-		871	40	-		911
Equipment:											
Passenger cars and locomotives		7,342	411		-		7,753	413	22		8,144
Buses		1,969	261		30		2,200	251	135		2,316
Infrastructure		10,913	861		14		11,760	1,054	23		12,791
Other		9,553	883		7		10,429	 793	 18		11,204
Total accumulated depreciation		38,554	3,011		54		41,511	3,158	223		44,446
Total capital assets being depreciated - net		57,121	 1,776		25		58,872	 1,657	 396		60,133
Capital assets - net	\$	77,502	\$ 8,946	\$	5,553	\$	80,895	\$ 7,215	\$ 4,351	\$	83,759



In 2021, MTA Long Island Rail Road obtained legal title to a newly constructed rail yard on its property in accordance to an agreement with the developer. The agreement provides for the developer to construct a rail yard for MTA Long Island Rail Road to store and service trains in a new location in exchange for development rights. A gain of \$266.6 for the fair market value of the assets were recognized at the date of conveyance.

In December 2021, MTA obtained legal title to the wireless telecommunications equipment installed on its property according to the network license agreement entered into with the licensee. The license agreement provides for the licensee to construct, operate, and maintain the wireless network. This asset was transferred by MTA to MTA Long Island Rail Road as a non-cash capital contribution recorded at \$27.3 representing the fair market value at the date of conveyance. In addition, in December 2021, MTA obtained legal title to work in process wireless telecommunications equipment to be installed on its property according to the network license agreement entered into with the licensee. The work in process assets were transferred by MTA to MTA Long Island Rail Road as a non-cash capital contribution recorded at \$33.2 representing the fair market value at the date of conveyance.

In December 2021, MTA obtained legal title to the wireless telecommunications equipment installed on the MTA New York City Transit Authority's property according to the network license agreement that MTA entered into with the licensee. The license agreement provides for the licensee to construct, operate, and maintain the wireless network. This asset was transferred by MTA to the MTA New York City Transit Authority as a non-cash capital contribution recorded at \$73.3 representing the fair market value at the date of conveyance.

Capital assets acquired prior to April 1982 for MTA New York City Transit were funded primarily by New York City with capital grants made available to MTA New York City Transit. New York City has title to a substantial portion of such assets and, accordingly, these assets are not recorded on the books of the MTA. Subsequent acquisitions, which are part of the MTA Capital Program, are recorded at cost by MTA New York City Transit. In certain instances, title to MTA Bridges and Tunnels' real property may revert to New York City in the event the MTA determines such property is unnecessary for its corporate purpose. With respect to MTA Metro-North Rail Road, capital assets completely funded by CDOT are not reflected in MTA's financial statements, as ownership is retained by CDOT.

For certain construction projects, the MTA holds in a trust account marketable securities pledged by third-party contractors in lieu of cash retainages. At December 31, 2021 and 2020, these securities, which are not included in these financial statements, totaled \$153.1 and \$117.4, respectively, and had a market value of \$130.2 and \$80.1, respectively.

As of December 31, 2021, \$72.8 billion has been committed to the MTA's Capital Program.



#### 7. LONG-TERM DEBT

(In millions)	Original Issuance	De	ecember 31, 2020	Issued		Retired	Dec	ember 31, 2021
MTA:	 issuance		2020	 Issueu		Keureu		2021
Transportation Revenue Bonds								
1.43%-5.15% due through 2057	\$ 44,080	\$	24,701	\$ 1,415	\$	2,166	\$	23,950
Bond Anticipation Notes*	,		ĺ	,		,		Ź
1.33% due through 2023	23,635		9,536	4,720		1,252		13,004
Dedicated Tax Fund Bonds			ŕ	ŕ		ŕ		ŕ
1.86%-4.89% due through 2057	11,149		4,857	110		286		4,681
· ·	 78,864		39,094	6,245		3,704		41,635
Net unamortized bond premium	-		1,403	122		367		1,158
•	 78,864		40,497	6,367		4,071		42,793
TBTA:								
General Revenue Bonds								
1.81%-4.18% due through 2047	18,121		8,040	365		240		8,165
Payroll Mobility Tax Senior Lien Obligations								
1.36%-2.02% due through 2051	2,464		-	2,464		-		2,464
Subordinate Revenue Bonds								
3.13%-5.34% due through 2032	4,066		867	-		72		795
Bond Anticipation Notes								
0.69% due through 2025	193		-	193		-		193
	 24,844		8,907	3,022		312		11,617
Net unamortized bond premium	-		676	578		81		1,173
	 24,844		9,583	3,600	-	393		12,790
MTA Hudson Rail Yards Trust:								
MTA Hudson Rail Yards Trust Obligations								
1.88%–2.65% due through 2056	1,220		845	-		15		830
Net unamortized bond premium	 -		88	-		1		87
	1,220		933	-		16		917
Total	\$ 104,928	\$	51,013	\$ 9,967	\$	4,480	\$	56,500
Current portion**		\$	1,543				\$	8,069
Long-term portion		\$	49,470				\$	48,431

<sup>\*</sup> Includes draws on a \$800 taxable revolving credit agreement with JPMorgan Chase Bank, National Association, which is active through August 24, 2022, and a \$400 taxable revolving credit agreement with Bank of America, National Association, which is active through August 24, 2022. Draws under the JPMorgan Chase Agreement and the Bank of America agreement are evidenced by revenue anticipation notes ("RANs"). As of December 31, 2021 and 2020, the outstanding RAN was \$1,196 and \$477, respectively.

<sup>\*\*</sup> As a result of certain MTA issuances of Bonds and Bond Anticipation Notes, the current portion of the Bonds and BANs that were reclassified as long term were \$1,891 and \$831, as of December 31, 2021 and 2020, respectively.



(In millions)		Original Issuance	December 31, 2019	Issued	Retired	De	ecember 31, 2020
MTA:		155441100		 155404	11011111		
Transportation Revenue Bonds							
1.43%-5.15% due through 2057	\$	42,665	\$ 21,650	\$ 4,750	\$ 1,699	\$	24,701
Bond Anticipation Notes*							
1.33% due through 2023		18,915	7,508	5,853	3,825		9,536
Dedicated Tax Fund Bonds							
1.86%-4.89% due through 2057		11,039	5,024	-	167		4,857
		72,619	34,182	10,603	5,691		39,094
Net unamortized bond premium		-	1,648	243	488		1,403
		72,619	35,830	10,846	6,179		40,497
TBTA:							
General Revenue Bonds							
1.81%-4.18% due through 2047		17,756	7,782	624	366		8,040
Subordinate Revenue Bonds							
3.13%-5.34% due through 2032		4,066	936	-	69		867
		21,822	8,718	624	435		8,907
Net unamortized bond premium		-	618	129	71		676
		21,822	9,336	753	 506		9,583
MTA Hudson Rail Yards Trust:							
MTA Hudson Rail Yards Trust Obligations							
1.88%–2.65% due through 2056		1,220	872	163	190		845
Net unamortized bond premium			107	-	19		88
		1,220	979	 163	209		933
Total	<u>\$</u>	95,661	\$ 46,145	\$ 11,762	\$ 6,894	\$	51,013
Current portion**			\$ 2,210			\$	1,543
Long-term portion			\$ 43,935			\$	49,470

<sup>\*</sup> Includes draws on a \$800 taxable revolving credit agreement with JPMorgan Chase Bank, National Association, which is active through August 24, 2022, and a \$400 taxable revolving credit agreement with Bank of America, National Association, which is active through August 24, 2022. Draws under the JPMorgan Chase Agreement and the Bank of America agreement are evidenced by revenue anticipation notes ("RANs"). As of December 31, 2020 and 2019, the outstanding RAN was \$477 and \$8, respectively.

<sup>\*\*</sup> As a result of certain MTA issuances of Bonds and Bond Anticipation Notes, the current portion of the BANs that were reclassified as long term were \$831 and \$2,200, as of December 31, 2020 and 2019, respectively. In addition, on February 16, 2021, MTA effectuated a \$8 early mandatory redemption of a portion of the Hudson Rail Yards Trust Obligations, Series 2020A. As a result, \$8 was reclassified from long-term to current as of December 31, 2020.



MTA Transportation Revenue Bonds — Prior to 2021, MTA issued sixty-eight Series of Transportation Revenue Bonds secured under its General Resolution Authorizing Transportation Revenue Obligations adopted on March 26, 2002 in the aggregate principal amount of \$36,256. The Transportation Revenue Bonds are MTA's special obligations payable solely from transit and commuter systems revenues and certain state and local operating subsidies.

On February 12, 2021, MTA issued \$700 of Transportation Revenue Bonds, Series 2021A. Proceeds from the transaction were used to finance existing approved transit and commuter projects. The Series 2021A bonds were issued as \$495 of Transportation Revenue Green Bonds, Subseries 2021A-1 and \$205 Transportation Revenue Bonds, Subseries 2021A-2. The Subseries 2021A-1 and Subseries 2021A-2 bonds were issued as tax-exempt fixed rate with final maturities of November 15, 2050 and November 15, 2043, respectively.

On March 31, 2021, MTA effectuated mandatory tenders and remarketed \$50 of Transportation Revenue Variable Rate Refunding Bonds, Subseries 2002D-2a-1 because its current interest period was set to expire by its terms. The Subseries 2002D-2a-1 of bonds were remarketed in Term Rate Mode as Secured Overnight Financing Rate ("SOFR") Tender Notes with a purchase date of April 1, 2024 and with an interest rate of 67% of SOFR plus 0.55%.

On April 1, 2021, MTA effectuated a mandatory tender and remarketed \$66.570 of Transportation Revenue Variable Rate Refunding Bonds, Subseries 2020B-1 because the Continuing Covenant Agreement ("CCA"), between MTA and PNC Bank, National Association, was expiring by its terms. The CCA associated with Subseries 2020B-1 was replaced with an irrevocable direct-pay LOC issued by PNC Bank, National Association. The LOC expired on April 1, 2022.

On April 1, 2021 and April 6, 2021, MTA effectuated mandatory tenders and remarketed \$100 of Transportation Revenue Variable Rate Refunding Bonds, Subseries 2002D-2b and \$50 of Transportation Revenue Variable Rate Refunding Bonds, Subseries 2002D-2a-2, respectively, because their respective current interest periods were set to expire by their terms. The aforementioned Subseries of bonds were remarketed in Term Rate Mode as Secured Overnight Financing Rate Tender Notes as follows:

<b>Quantity</b>	Subseries	Delivery Date	Purchase Date	Interest Rate
100	2002D-2b	April 1, 2021	April 1, 2024	67% of SOPR plus 0.55%
50	2002D-2a-2	April 6, 2021	April 1, 2026	67% of SOPR plus 0.80%

On June 30, 2021, MTA effectuated a mandatory tender and remarketed \$29.145 of MTA Transportation Revenue Variable Rate Refunding Bonds, Series 2002G-1f and \$125.350 of MTA Transportation Revenue Variable Rate Refunding Bonds, Subseries 2005D-1 because their current interest rate periods were expiring by their terms. The Subseries 2002G-1f bonds were remarketed in Term Rate Mode as Secured Overnight Financing Rate ("SOFR") Notes with a final maturity of November 1, 2026, and with an interest rate of 67% of SOFR plus 0.43%. The Subseries 2005D-1 bonds were remarketed in Term Rate Mode as SOFR Tender Notes with a purchase date of April 1, 2024, and with an interest rate of 67% of SOFR plus 0.33%.

On August 18, 2021, MTA effectuated a mandatory tender and remarketed \$83.600 MTA Transportation Revenue Variable Rate Refunding Bonds, Subseries 2005E-1 and \$62.700 MTA Transportation Revenue Variable Rate Refunding Bonds, Subseries 2005E-3 because their irrevocable direct-pay Letter of Credits (LOCs) with PNC Bank, National Association were expiring by their terms and were substituted with an irrevocable direct-pay LOC issued by Barclays Bank. The new LOC will expire on August 18, 2025. The Subseries 2005E-1 and 2005E-3 bonds were combined and redesignated as Subseries 2005E-1.

On August 18, 2021, MTA effectuated a mandatory tender and remarketed \$77.400 Transportation Revenue Variable Rate Bonds, Subseries 2015E-1 and \$70.400 MTA Transportation Revenue Variable Rate Bonds, Subseries 2015E-4 because their irrevocable direct-pay LOCs with U.S. Bank National Association and PNC Bank, National Association, respectively, were expiring by their terms and were substituted with an irrevocable direct-pay LOC issued by Barclays Bank. The new LOC will expire on August 18, 2025. The Subseries 2015E-1 and 2015E-4 bonds were combined and redesignated as Subseries 2015E-1.

On October 15, 2021, MTA extended both of its irrevocable direct-pay Letters of Credit issued by TD Bank, N.A. that are associated with Transportation Revenue Variable Rate Refunding Bonds, Subseries 2002G-1g and Transportation Revenue Variable Rate Refunding Bonds, Subseries 2012G-2 for three years to November 1, 2024.

On November 22, 2021, MTA extended its irrevocable direct-pay Letter of Credit issued by Bank of America, N.A. that is associated with Transportation Revenue Variable Rate Bonds, Subseries 20005E-2 for two years to December 8, 2023.

MTA Bond Anticipation Notes — From time to time, MTA issues Transportation Revenue Bond Anticipation Notes in accordance with the terms and provisions of the General Resolution described above in the form of commercial paper to fund its transit and commuter capital needs. The interest rate payable on the notes depends on the maturity and market conditions at the time of issuance. The MTA Act requires MTAHQ to periodically (at least each five years) refund its bond anticipation notes with bonds.



MTA Revenue Anticipation Notes — On January 9, 2014, MTA closed a \$350 revolving working capital liquidity facility with the Royal Bank of Canada which is expected to remain in place until July 7, 2017. Draws on the facility will be taxable, as such this facility is intended to be used only for operating needs of MTA and the related entities. On January 31, 2017, MTA drew down \$200 of its \$350 Revolving Credit Agreement with the Royal Bank of Canada, which was entered into on January 1, 2014. The purpose of the draw was to retire Transportation Revenue Bond Anticipation Notes, Subseries 2016A-2. The \$200 draw-down plus accrued interest was repaid on March 31, 2017.

On August 24, 2017, MTA entered into a \$350 taxable Revenue Anticipation Note facility, (the "2017A RAN"), with JPMorgan Chase Bank, National Association. An initial draw of \$3.5 was made at closing. This balance will remain throughout the duration of the agreement. The 2017A RAN is available to be used by MTA for any corporate purpose as needed and is structured as a revolving loan facility. The RAN expires on August 24, 2022.

On August 14, 2018, MTA amended the 2017A RAN to (1) correct the designation of the facility to Transportation Revenue Anticipation Notes, Series 2017 (the "Series 2017 RANs") and (2) increase the maximum amount of the Series 2017 RANs authorized to be issued by \$350, for a maximum principal amount of \$700 at any one-time outstanding. To maintain the 1% draw on the line of credit throughout the duration of the agreement, an additional \$3.5 draw was made on August 14, 2018.

On August 16, 2019, the Revenue Anticipation Note facility with JPMorgan Chase was amended, increasing the line of credit to \$800. To maintain the 1% draw on the line of credit throughout the duration of the agreement, an additional \$1 draw was made on August 16, 2019.

On August 16, 2019, MTA entered into a \$200 taxable revolving credit agreement with Bank of America, National Association ("BANA") that is active through August 24, 2022.Draws under the BANA Agreement will be evidenced by RANs. Funds may be used for operational or capital purposes.

On March 20, 2020, MTA drew down the remaining \$792 of its \$800 Revolving Credit Agreement with JPMorgan Chase Bank National Association and \$200 of its Revolving Credit Agreement with Bank of America National Association.

On April 22, 2020, MTA drew down \$2.5 of its taxable Revolving Credit Agreement with Bank of America National Association.

On May 22, 2020, MTA entered into a \$950 taxable term credit agreement with JPMorgan Chase Bank National Association, as administrative agent, and Industrial and Commercial Bank of China Limited, New York Branch, and Bank of China, New York Branch, collectively as lenders. Funds drawn from this credit agreement may be used for operational or capital purposes. The credit agreement was active through May 22, 2022.

On July 23, 2020, the Urban Development Corporation (dba "Empire State Development" or "ESD"), on behalf of the State of New York, issued its State Personal Income Tax Revenue Bonds, Series 2020C ("ESD Series 2020C Bonds"). A portion of the proceeds of the ESD Series 2020C Bonds, \$1.1 billion, were applied to the retirement of certain short-term notes issued by MTA on behalf of the existing \$7.3 billion commitment of NYS toward the MTA's 2015-2019 Capital Program. The proceeds were applied as follows: (i) \$413.517, plus interest, to retire Transportation Revenue Anticipation Notes, Series 2020A ("Series 2020A RANs"), (ii) \$104.672, plus interest, to retire Transportation Revenue Anticipation Notes, Series 2020B ("Series 2020B RANs"), and (iii) \$600, plus interest, to retire Transportation Revenue Bond Anticipation Notes, Series 2019E.

MTA State Service Contract Bonds — Prior to 2021, MTA issued two Series of State Service Contract Bonds secured under its State Service Contract Obligation Resolution adopted on March 26, 2002, in the aggregate principal amount of \$2,395. Currently, there are no outstanding bonds. The State Service Contract Bonds are MTA's special obligations payable solely from certain payments from the State of New York under a service contract.

MTA Dedicated Tax Fund Bonds — Prior to 2021, MTA issued twenty-two Series of Dedicated Tax Fund Bonds secured under its Dedicated Tax Fund Obligation Resolution adopted on March 26, 2002, in the aggregate principal amount of \$9,769. The Dedicated Tax Fund Bonds are MTA's special obligations payable solely from monies held in the Pledged Amounts Account of the MTA Dedicated Tax Fund. State law requires that the MTTF revenues and MMTOA revenues (described above in Note 2 under "Nonoperating Revenues") be deposited, subject to appropriation by the State Legislature, into the MTA Dedicated Tax Fund.

On March 18, 2021, MTA effectuated a mandatory tender and remarketed \$110.325 of Dedicated Tax Fund Bonds, Subseries 2002B-1 because the irrevocable direct-pay Letter of Credit (LOC) issued by The Bank of Tokyo-Mitsubishi UFJ, Ltd. was expiring by its terms. The Subseries 2002B-1 bonds were remarketed as fixed rate tax-exempt bonds with a final maturity of November 1, 2022.

MTA Certificates of Participation — Prior to 2021, MTA (solely on behalf of MTA Long Island Rail Road and MTA Metro-North Railroad), MTA New York City Transit and MTA Bridges and Tunnels executed and delivered three Series of Certificates of Participation in the aggregate principal amount of \$807 to finance certain building and leasehold improvements to an office building at Two Broadway in Manhattan occupied principally by MTA New York City Transit, MTA Bridges



and Tunnels, MTA Construction and Development, and MTAHQ. The Certificates of Participation represented proportionate interests in the principal and interest components of Base Rent paid severally, but not jointly, in their respective proportionate shares by MTA New York City Transit, MTA, and MTA Bridges and Tunnels, pursuant to a Leasehold Improvement Sublease Agreement.

MTA Bridges and Tunnels General Revenue Bonds — Prior to 2021, MTA Bridges and Tunnels issued thirty-four Series of General Revenue Bonds, secured under its General Resolution Authorizing General Revenue Obligations adopted on March 26, 2002, in the aggregate principal amount of \$13,774. The General Revenue Bonds are MTA Bridges and Tunnels' general obligations payable generally from the net revenues collected on the bridges and tunnels operated by MTA Bridges and Tunnels.

On January 21, 2021, MTA effectuated a mandatory tender and remarketed \$187.200 of Triborough Bridge and Tunnel Authority General Revenue Variable Rate Refunding Bonds, Subseries 2005B-2 as \$93.600 Subseries 2005B-2a and \$93.600 Subseries 2005B-2b because the irrevocable direct-pay Letter of Credit (LOC) issued by Citibank, N.A. was expiring by its terms. The LOC associated with Subseries 2005B-2 was replaced with an irrevocable direct-pay LOC issued by State Street Bank that will expire on January 21, 2026. The Subseries 2005B-2a and Subseries 2005B-2b bonds will each be supported separately by the LOC issued by State Street Bank.

On February 1, 2021, MTA effectuated a mandatory tender and remarketed \$104.700 of Triborough Bridge and Tunnel Authority General Revenue Variable Rate Refunding Bonds, Subseries 2005B-4a because its current interest rate period was expiring by its terms. The Subseries 2005B-4a bonds were remarketed in Term Rate Mode as Secured Overnight Financing Rate (SOFR) Tender Notes with a purchase date of February 1, 2024, and with an interest rate of 67% of SOFR plus 0.38%.

On March 31, 2021, MTA issued \$400 of Triborough Bridge and Tunnel Authority General Revenue Bonds, Series 2021A. Proceeds from the transaction were used to finance existing approved bridge and tunnel capital projects. The Series 2021A bonds were issued as fixed rate tax-exempt bonds with a final maturity of November 15, 2056.

On October 27, 2021, MTA effectuated a mandatory tender and remarketed \$111.175 of Triborough Bridge and Tunnel Authority General Revenue Variable Rate Bonds, Series 2002F because its irrevocable direct-pay Letter of Credit issued by Citibank, N.A. was expiring by its terms, and \$53.005 of Triborough Bridge and Tunnel Authority General Revenue Bonds, Subseries 2008B-2 because its current interest rate period was expiring by its terms. The Series 2002F bonds were remarketed as fixed rate tax-exempt bonds with a final maturity of November 1, 2032. The Subseries 2008B-2 bonds were remarketed as fixed rate tax-exempt bonds with a final maturity of November 15, 2027.

MTA Bridges and Tunnels Subordinate Revenue Bonds — Prior to 2021, MTA Bridges and Tunnels issued twelve Series of Subordinate Revenue Bonds secured under its 2001 Subordinate Revenue Resolution Authorizing Subordinate Revenue Obligations adopted on March 26, 2002, in the aggregate principal amount of \$4,066. The Subordinate Revenue Bonds are MTA Bridges and Tunnels' special obligations payable generally from the net revenues collected on the bridges and tunnels operated by MTA Bridges and Tunnels after the payment of debt service on the MTA Bridges and Tunnels General Revenue Bonds described in the preceding paragraph.

MTA Bridges and Tunnels Second Subordinate Bond Anticipation Notes — On June 10, 2021, MTA issued \$192.835 of Triborough Bridge and Tunnel Authority Second Subordinate Bond Anticipation Notes, Series 2021A. Proceeds from the transaction will be used to finance costs related to the design, build, and installation of infrastructure, tolling systems and allowable implementation expenses necessary for the operation of the Central Business District Tolling Program. The Series 2021A notes were issued as fixed rate tax-exempt notes with a final maturity of November 1, 2025.

MTA Bridges and Tunnels Payroll Mobility Tax Senior Lien Bonds — On May 5, 2021, MTA issued \$1,238.210 of Triborough Bridge and Tunnel Authority Payroll Mobility Tax Senior Lien Bonds, Series 2021A. The Series 2021A bonds were issued as \$633.535 Subseries 2021A-1; \$356.225 Subseries 2021A-2; and \$248.450 Subseries 2021A-3. The Subseries 2021A-1 bonds were issued as fixed rate tax-exempt bonds with a final maturity of May 15, 2051. The Subseries 2021A-2 bonds were issued as tax-exempt mandatory tender bonds with purchase dates of May 15th in 2024, 2026, and 2028. The Subseries 2021A-3 bonds were issued as fixed rate federally taxable bonds with a final maturity of May 15, 2040. Proceeds from the transaction were used to retire \$800 Transportation Revenue Bond Anticipation Notes, Subseries 2018B-2 and to refund \$630.747 Transportation Revenue Bonds, Series 2015X.

On August 31, 2021, MTA issued \$369.195 of Triborough Bridge and Tunnel Authority Payroll Mobility Tax Senior Lien Bonds, Series 2021B. Proceeds from the transaction were used to retire \$450.000 Transportation Revenue Bond Anticipation Notes, Subseries 2018C-2. The Series 2021B bonds were issued as \$241.580 Subseries 2021B-1 and \$127.615 Subseries 2021B-2. The Subseries 2021B-1 bonds were issued as fixed rate tax-exempt bonds with a final maturity of May 15, 2056. The Subseries 2021A-2 bonds were issued as tax-exempt mandatory tender bonds with a purchase date of May 15, 2026.

On September 30, 2021, MTA issued \$853.628 of Triborough Bridge and Tunnel Authority Payroll Mobility Tax Senior Lien Bonds, Series 2021C. Proceeds from the transaction were used to finance existing approved transit and commuter projects and to refund: \$78.995 MTA Transportation Revenue Bonds, Series 2011C; \$9.665 MTA Transportation Revenue Bonds,



Series 2011D; \$69.495 MTA Transportation Revenue Bonds, Series 2015D-1; and \$48.485 MTA Transportation Revenue Bonds, Series 2016B. The refunding resulted in a net present value savings of \$27.286 million or 13.20% of the par amount of the refunded bonds. The Series 2021C bonds were issued as: \$316.680 Subseries 2021C-1a; \$75.000 Subseries 2021C-1b; \$177.274 Subseries 2021C-2; and \$284.675 Subseries 2021C-3. The Subseries 2021C-1a bonds were issued as fixed rate tax-exempt bonds with a final maturity of May 15, 2051. The Subseries 2021C-1b bonds were issued as tax-exempt mandatory tender bonds with a purchase date of May 15, 2026. The Subseries 2021C-2 bonds were issued as \$165.525 fixed rate tax-exempt Current Interest Bonds and \$11.749 fixed rate tax-exempt Capital Appreciation Bonds with a final maturity of May 15, 2036. The Subseries 2021C-3 bonds were issued as fixed rate tax-exempt bonds with a final maturity of May 15, 2051.

MTA Payroll Mobility Tax Bond Anticipation Notes - On December 17, 2020, MTA issued \$2,907.280 of MTA Payroll Mobility Tax Bond Anticipation Notes, Series 2020A pursuant to a Note Purchase Agreement, between MTA and Municipal Liquidity Facility LLC. Proceeds from the transaction were used to finance COVID-19 Lost Revenues and Increased Costs of the MTA agencies and TBTA. The Series 2020A notes were issued as fixed rate tax-exempt notes with a final maturity of December 15, 2023.

MTA Hudson Rail Yards Trust Obligations — The MTA Hudson Rail Yards Trust Obligations, Series 2016A ("Series 2016A Obligations") were executed and delivered on September 22, 2016 by Wells Fargo Bank National Association, as Trustee ("Trustee"), to (i) retire the outstanding Transportation Revenue Bond Anticipation Notes, Series 2016A of the MTA, which were issued to provide interim financing of approved capital program transit and commuter projects, (ii) finance approved capital program transit and commuter projects of the affiliates and subsidiaries of the MTA, (iii) fund an Interest Reserve Requirement in an amount equal to one-sixth (1/6) of the greatest amount of Interest Components (as hereinafter defined) in the current or any future year, (iv) fund a portion of the Capitalized Interest Fund requirement, and (v) finance certain costs of issuance.

Pursuant to the Financing Agreement (as hereinafter defined), the MTA has agreed to pay to, or for the benefit of, the Trustee the "MTA Financing Agreement Amount," consisting of principal and interest components. The Series 2016A Obligations evidence the interest of the Owners thereof in such MTA Financing Agreement Amount payable by the MTA pursuant to the Financing Agreement. The principal amount of the Series 2016A Obligations represent the principal components of the MTA Financing Agreement Amount ("Principal Components") and the interest represent the interest components of the MTA Financing Agreement Amount ("Interest Components"). The Series 2016A Obligations (and the related Principal Components and Interest Components) are special limited obligations payable solely from the Trust Estate established under the MTA Hudson Rail Yards Trust Agreement, dated as of September 1, 2016 ("Trust Agreement"), by and between the MTA and the Trustee.

The Trust Estate consists principally of (i) the regularly scheduled rent, delinquent rent or prepaid rent ("Monthly Ground Rent") to be paid by Ground Lease Tenants (the tenants under the Western Rail Yard Original Ground Lease and each Severed Parcel Ground Lease of the Eastern Rail Yard) of certain parcels being developed on and above the Eastern Rail Yard and Western Rail Yard portions of the John D.Caemmerer West Side Yards ("Hudson Rail Yards") currently operated by The Long Island Rail Road Company ("LIRR"), (ii) monthly scheduled transfers from the Capitalized Interest Fund during the limited period that the Monthly Ground Rent is abated under the applicable Ground Lease, (iii) payments made by the Ground Lease Tenants if they elect to exercise their option to purchase the fee interest in such parcels ("Fee Purchase Payments"), (iv) Interest Reserve Advances and Direct Cost Rent Credit Payments (collectively "Contingent Support Payments") made by the MTA, (v) rights of the MTA to exercise certain remedies under the Ground Leases and (vi) rights of the Trustee to exercise certain remedies under the Ground Leases and the Fee Mortgages.

Pursuant to the Interagency Financing Agreement, dated as of September 1, 2016 ("Financing Agreement"), by and among the MTA, New York City Transit Authority, Manhattan and Bronx Surface Transit Operating Authority, LIRR, Metro-North Commuter Railroad Company, and MTA Bus Company (collectively, the "Related Transportation Entities"), and the Trustee, the MTA has agreed to pay to the Trustee the MTA Financing Agreement Amount with moneys provided by the Financing Agreement Payments (which are principally the revenues within the Trust Estate) and Interest Reserve Advances. The MTA has established a deposit account with Wells Fargo Bank, National Association, as depositary ("Depositary"), and the MTA will direct all Ground Lease Tenants to make Monthly Ground Rent and Fee Purchase Payments (payments made by the Ground Lease Tenants if they elect to exercise their option to purchase the fee interest in such parcels) directly to the Depositary, which deposits will be transferred daily to the Trustee. In addition, in the event the MTA elects to exercise certain Authority Cure Rights upon the occurrence of a Ground Lease Payment Event of Default or is required to make certain Direct Cost Rent Credit Payments, the MTA will make all payments relating to defaulted and future Monthly Ground Rent directly to the Depositary.

On July 15, 2019, MTA effectuated the early mandatory redemption of a portion of the MTA Hudson Rail Yards Trust Obligations, Series 2016A maturing on November 15, 2046 in the Principal Component of \$68. This is due to the payment of Fee Purchase Payments in connection with three commercial condominium units to be owned and occupied by Wells Fargo and KKR.



On September 21, 2020, Moody's Investors Services downgraded Hudson Rail Yard Trust Obligations from A2 to A3 and assigned the Hudson Rail Yard Trust Obligations with a Negative Outlook.

Refer to Note 8 for further information on Leases.

MTA Grant Anticipation Notes - On December 9, 2021, MTA issued \$4,000.000 of Grant Anticipation Notes, Series 2021A. Proceeds from the transaction were used to reimburse MTA for certain operating expenses and lost revenues since January 20, 2020, due to the COVID-19 public health emergency. The Series 2021A Notes were priced as fixed rate federally taxable notes with a final maturity of November 15, 2022.

**Debt Limitation** — The New York State Legislature has imposed limitations on the aggregate amount of debt that the MTA and MTA Bridges and Tunnels can issue to fund the approved transit and commuter capital programs. The current aggregate ceiling, subject to certain exclusions, is \$90,100 compared with issuances totaling approximately \$42,248. The MTA expects that the current statutory ceiling will allow it to fulfill the bonding requirements of the approved Capital Programs.

**Bond Refundings** — From time to time, the MTA and MTA Bridges and Tunnels issue refunding bonds to achieve debt service savings or other benefits. The proceeds of refunding bonds are generally used to purchase U.S. Treasury obligations that are placed in irrevocable trusts. The principal and interest within the trusts will be used to repay the refunded debt. The trust account assets and the refunded debt are excluded from the consolidated statements of net position.

At December 31, 2021 and 2020, the following amounts of MTA bonds, which have been refunded, remain valid debt instruments and are secured solely by and payable solely from their respective irrevocable trusts.

(In millions)	December 31, 2021			December 31, 2020		
MTA Transit and Commuter Facilities:						
Transit Facilities Revenue Bonds	\$	104	\$	127		
Commuter Facilities Revenue Bonds		102		126		
MTA Bridges and Tunnels:						
General Purpose Revenue Bonds		458		539		
Special Obligation Subordinate Bonds		59		74		
Total	\$	723	\$	866		

For the year ended December 31, 2021, MTA refunding transactions increased aggregate debt service payments by \$66 and provided an economic gain of \$44. For the year ended December 31, 2020, MTA refunding transactions increased aggregate debt service payments by \$162 and provided an economic gain of \$111. Details of bond refunding savings for December 31, 2021 and December 31, 2020 are as follows:

Refunding Bonds Issued in 2021	(In millions)	Series	Date issued	Par value Refunded			Service Increase)
MTA Bridges and Tunnels Pay Senior Lien Bonds	roll Mobility Tax	PMT 2021A PMT 2021C	5/5/2021 9/30/2021	\$	631 207	\$	(103) 37
<b>Total Bond Refunding Savings</b>				\$	838	\$	(66)
Refunding Bonds Issued in 2020	(In millions)	Series	Date issued		value unded		Service Increase)
Refunding Bonds Issued in 2020 Transportation Revenue Bonds	(In millions)	Series TRB 2020A-2 TRB 2020B	Date issued  1/16/2020 3/27/2020			Savings (	

For the year ended December 31, 2021, the accounting loss on bond refundings totaled \$2. For the year ended December 31, 2020, the accounting loss on bond refundings totaled \$22.



Unamortized gains and losses related to bond refundings were as follows:

			(Gain)/				(Gain)/ loss on refunding			Current			
	December 31, 2019		loss on refunding		2020 amortization				December 31, 2020	year amortization		December 31, 2021	
MTA:													
Transportation Revenue Bonds	\$	570	\$	(22)	\$	(105)	\$ 443	\$	2	: :	\$ (58)	\$	387
State Service Contract Bonds		(12)		-		-	(12)		-		-		(12)
Dedicated Tax Fund Bonds		222		-		(16)	206		-		(17)		189
		780		(22)		(121)	 637		2		(75)		564
TBTA:						_					_		
General Revenue Bonds		192		-		(17)	175		-		(21)		154
Subordinate Revenue Bonds		29		-		(4)	25		-		(3)		22
		221		-		(21)	200		-		(24)		176
Total	\$	1,001	\$	(22)	\$	(142)	\$ 837	\$	2		\$ (99)	\$	740

**Debt Service Payments** — Future principal and interest debt service payments at December 31, 2021 are as follows (in millions):

		M	ΓΑ		МТ	TA BRIDGES	GES AND TUNNELS Debt S			ervice		
Year	Pr	incipal	Interest		P	Principal		Interest		Principal		Interest
2022	\$	7,739	\$ 1	426	\$	330	\$	501	\$	8,069	\$	1,927
2023		6,957	1	352		375		485		7,332		1,837
2024		945	1	209		376		467		1,321		1,676
2025		966	1	107		599		448		1,565		1,555
2026		1,044	1	021		418		420		1,462		1,441
2027-2031		5,837	4	452		2,388		1,786		8,225		6,238
2032-2036		5,643	3	582		1,775		1,375		7,418		4,957
2037-2041		4,778	2	546		1,508		1,028		6,286		3,574
2042-2046		3,703	1	438		1,566		711		5,269		2,149
2047-2051		3,549		619		1,748		324		5,297		943
2052-2057		1,281		124		534		62		1,815		186
Thereafter		23		1						23		1
	\$	42,465	\$ 18	877	\$	11,617	\$	7,607	\$	54,082	\$	26,484

The above interest amounts include both fixed-rate and variable-rate calculations. The interest rate assumptions for variable rate bonds are as follows:

- Transportation Revenue Refunding Bonds, Series 2002D 4.45% per annum taking into account the interest rate swap plus the current fixed floating rate note spread.
- Transportation Revenue Refunding Bonds, Series 2002G 3.542% per annum taking into account the interest rate swap plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating rate note spread on the unhedged portion.
- Transportation Revenue Bonds, Series 2005D 3.561% per annum taking into account the interest rate swaps.
- Transportation Revenue Bonds, Series 2005E 3.561% per annum taking into account the interest rate swaps and 4.00% per annum on the unhedged portion.
- Transportation Revenue Bonds, Series 2011B 3.542% per annum taking into account the interest rate swaps plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating rate note spread on the unhedged portion.
- Transportation Revenue Bonds, Series 2012A 4.00% per annum plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2012G 3.563% per annum taking into account the interest rate swaps plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2014D-2 4.00% per annum plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2015A-2—4.00% per annum plus the current fixed floating rate note spread.
- Transportation Revenue Bonds, Series 2015E 4.00% per annum.
- Dedicated Tax Fund Bonds, Series 2002B 4.00% per annum on Subseries 2002B-1; and 4.00% per annum plus the current fixed floating rate note spread.



- Dedicated Tax Fund Variable Rate Refunding Bonds, Series 2008A—3.316% per annum taking into account the interest rate swaps plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating rate note spread on the unhedged portion.
- Dedicated Tax Fund Refunding Bonds, Subseries 2008B-3a and 2008B-3c— 4.00% per annum plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels Subordinate Refunding Bonds, Series 2000ABCD 6.08% per annum taking into account the
  interest rate swap plus the current fixed floating rate note spread; and 4.00% per annum plus the current fixed floating
  rate note spread on the unhedged portion.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2001C 4.00% per annum.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2001B 4.00% per annum plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2002F 5.404% and 3.076% per annum taking into account the interest rate swaps and 4.00% per annum on portions not covered by the interest rate swaps.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2003B 4.00% per annum; and 4.00% per annum plus the current fixed floating rate note spread on Subseries 2003B-2.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2005A 4.00% per annum except from November 1, 2027 through November 1, 2030, 3.076% per annum taking into account the interest rate swap.
- MTA Bridges and Tunnels General Revenue Refunding Bonds, Series 2005B 3.076% per annum based on the Initial Interest Rate Swaps plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2008B-2 4.00% per annum plus the current fixed floating rate note spread.
- MTA Bridges and Tunnels General Revenue Bonds, Series 2018E 4.00% per annum.

Loans Payable – The MTA and the New York Power Authority ("NYPA") entered into an updated Energy Services Program Agreement ("ESP Agreement"). The ESP Agreement authorized MTA affiliates and subsidiaries to enter into a Customer Installation Commitment ("CIC") with NYPA for turn-key, energy efficiency projects, which would usually be long-term funded and constructed by NYPA. The repayment period for the NYPA loan can be up to 20 years, but can be repaid at any time without penalty.

The debt service requirements at December 31, 2021 are as follows (in millions):

Year	Prin	icipal	Interest	Total
2022	\$	15	\$ 2	\$ 17
2023		12	2	14
2024		11	2	13
2025		11	1	12
2026		9	1	10
2027-2031		32	3	35
2032-2036		5	0	5
2037-2041		1	0	1
Total	\$	96	<u>\$ 11</u>	<u>\$ 107</u>
Current portion	\$	14		
Long-term portion		82		
Total NYPA Loans Payable	\$	96		

The above interest amounts include both fixed and variable rate calculations. Interest on the variable-rate loan is paid at the Securities Industry and Financial Markets Association Municipal Swap Index ("SIFMA") rate and is reset annually.

Tax Rebate Liability — Under the Internal Revenue Code of 1986, the MTA may accrue a liability for an amount of rebateable arbitrage resulting from investing low-yielding, tax-exempt bond proceeds in higher-yielding, taxable securities. The arbitrage liability is payable to the federal government every five years. No accruals or payments were made during the years ended December 31, 2021 and 2020.



**Liquidity Facility** — MTA and MTA Bridges and Tunnels have entered into several Standby Bond Purchase Agreements ("SBPA") and Letter of Credit Agreements ("LOC") as listed on the table below.

				Type of	
Resolution	<u>Series</u>	Swap	Provider (Insurer)	<u>Facility</u>	Exp. Date
Transportation Revenue	2002G-1g	Y	TD Bank, N.A.	LOC	11/1/2024
Transportation Revenue	2005D-2	Y	Helaba	LOC	11/10/2022
Transportation Revenue	2005E-1	Y	Barclays Bank	LOC	8/18/2025
Transportation Revenue	2005E-2	Y	Bank of America, N.A.	LOC	12/8/2023
Transportation Revenue	2012A-2	N	Bank of Montreal	LOC	6/2/2022
Transportation Revenue	2012G-1	Y	Barclays Bank	LOC	10/31/2023
Transportation Revenue	2012G-2	Y	TD Bank, N.A.	LOC	11/1/2024
Transportation Revenue	2015E-1	N	Barclays Bank	LOC	8/18/2025
Transportation Revenue	2015E-3	N	Bank of America, N.A.	LOC	9/2/2022
Dedicated Tax Fund	2008A-1	Y	TD Bank, N.A.	LOC	6/13/2022
MTA Bridges and Tunnels General Revenue	2001C	Y	State Street	LOC	6/26/2023
MTA Bridges and Tunnels General Revenue	2003B-1	N	Bank of America, N.A.	LOC	1/21/2022
MTA Bridges and Tunnels General Revenue	2005A	Y	Barclays Bank	LOC	1/24/2024
MTA Bridges and Tunnels General Revenue	$2005B^{-2}$	Y	State Street	LOC	1/21/2026
MTA Bridges and Tunnels General Revenue	$2005B^{-3}$	Y	State Street	LOC	6/26/2023
MTA Bridges and Tunnels General Revenue	2005B-4c	Y	U.S. Bank National Association	LOC	5/26/2022
MTA Bridges and Tunnels General Revenue	2018E	N	Bank of America, N.A.	LOC	12/12/2022



**Derivative Instruments** — Fair value for the swaps is calculated in accordance with GASB Statement No. 72, utilizing the income approach and Level 2 inputs. It incorporates the mid-market valuation, nonperformance risk of either MTA/MTA Bridges and Tunnels or the counterparty, as well as bid/offer. The fair values were estimated using the zero-coupon method. This method calculates the future net settlement payments required by the swap, assuming that the current forward rates implied by the yield curve correctly anticipate future spot interest rates. These payments are then discounted using the spot rates implied by the current yield curve for hypothetical zero-coupon bonds due on the date of each future net settlement on the swap.

The fair value balances and notional amounts of derivative instruments outstanding at December 31, 2021 and 2020, classified by type, and the changes in fair value of such derivative instruments from the year ended December 31, 2020 are as follows (in \$ millions):

Cash Flow

### **Derivative Instruments - Summary Information as of December 31, 2021**

			or Fair Value		Trade/Hedge	Notional	
Bond Resolution Credit	Underlying Bond Series	Type of Derivative	Hedge	Effective Methodology	Association Date	Amount	Fair Value
Cashflow Hedges							
				Synthetic Instrument/			
MTA Bridges and Tunnels Senior Revenue Bonds	2018E & 2003B (Citi 2005B)	Libor Fixed Payer	Cash Flow	Dollar Offset	6/2/2005	\$ 187.200	\$ (30.789)
MTA Bridges and Tunnels Senior Revenue Bonds	2005B-2,3,4	Libor Fixed Payer	Cash Flow	Synthetic Instrument	6/2/2005	561.600	(92.368)
MTA Bridges and Tunnels Senior Revenue Bonds	2005A (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016	19.775	(2.043)
MTA Bridges and Tunnels Senior Revenue Bonds	2001C (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/5/2016	9.000	(0.963)
MTA Dedicated Tax Fund Bonds	2008A	Libor Fixed Payer	Cash Flow	Synthetic Instrument	3/8/2005	281.450	(37.600)
MTA Transportation Revenue Bonds	2002D-2	Libor Fixed Payer	Cash Flow	Synthetic Instrument	7/11/2002	200.000	(62.934)
MTA Transportation Revenue Bonds	2005D & 2005E	Libor Fixed Payer	Cash Flow	Synthetic Instrument	9/10/2004	317.660	(60.799)
MTA Transportation Revenue Bonds	2012G	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/12/2007	355.525	(82.754)
MTA Transportation Revenue Bonds	2002G-1 (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016	81.065	(4.481)
MTA Transportation Revenue Bonds	2011B (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016	91.135	(13.305)
					Total	\$ 2,104.410	\$ (388.036)

## **Derivative Instruments - Summary Information as of December 31, 2020**

			Cash Flow or		Trade/Hedge	Noti	ional	
Bond Resolution Credit	Underlying Bond Series	Type of Derivative	Fair Value Hedge	Effective Methodology	<b>Association Date</b>	Am	ount	Fair Value
Cashflow Hedges								
MTA Bridges and Tunnels Senior Revenue Bonds	2002F & 2003B (Citi 2005B)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	6/2/2005	\$	188.300 \$	(41.775)
MTA Bridges and Tunnels Senior Revenue Bonds	2005B-2,3,4	Libor Fixed Payer	Cash Flow	Synthetic Instrument	6/2/2005		564.900	(125.326)
MTA Bridges and Tunnels Senior Revenue Bonds	2005A (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016		21.780	(3.072)
MTA Bridges and Tunnels Senior Revenue Bonds	2005C (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/5/2016		10.000	(1.435)
MTA Dedicated Tax Fund Bonds	2008A	Libor Fixed Payer	Cash Flow	Synthetic Instrument	3/8/2005		301.970	(53.228)
MTA Transportation Revenue Bonds	2002D-2	Libor Fixed Payer	Cash Flow	Synthetic Instrument	7/11/2002		200.000	(72.611)
MTA Transportation Revenue Bonds	2005D & 2005E	Libor Fixed Payer	Cash Flow	Synthetic Instrument	9/10/2004		334.360	(75.150)
MTA Transportation Revenue Bonds	2012G	Libor Fixed Payer	Cash Flow	Synthetic Instrument	12/12/2007		355.950	(98.730)
MTA Transportation Revenue Bonds	2002G-1 (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016		97.215	(7.984)
MTA Transportation Revenue Bonds	2011B (COPS 2004A)	Libor Fixed Payer	Cash Flow	Synthetic Instrument	4/1/2016		92.455	(18.768)
					Total	\$ 2,	166.930 \$	(498.079)



	Changes In Fair Value		Fair Value at December 31, 2021		
		Amount		Amount	Notional
	Classification	(in millions)	Classification	(in millions)	(in millions)
Government activities					
Cash Flow hedges:					
	Deferred outflow				
Pay-fixed interest rate swaps	of resources	\$110.043	Debt	\$(388.036)	\$2,104.410

# Swap Agreements Relating to Synthetic Fixed Rate Debt

Board-adopted Guidelines. The Related Entities adopted guidelines governing the use of swap contracts on March 26, 2002. The guidelines were amended and approved by the MTA Board on March 13, 2013. The guidelines establish limits on the amount of interest rate derivatives that may be outstanding and specific requirements that must be satisfied for a Related Entity to enter into a swap contract, such as suggested swap terms and objectives, retention of a swap advisor, credit ratings of the counterparties, collateralization requirements and reporting requirements.

Objectives of synthetic fixed rate debt. To achieve cash flow savings through a synthetic fixed rate, MTA and MTA Bridges and Tunnels have entered into separate pay-fixed, receive-variable interest rate swaps at a cost anticipated to be less than what MTA and MTA Bridges and Tunnels would have paid to issue fixed-rate debt, and in some cases where Federal tax law prohibits an advance refunding to synthetically refund debt on a forward basis.

*Terms and Fair Values*. The terms, fair values and counterparties of the outstanding swaps of MTA and MTA Bridges and Tunnels are reflected in the following tables (as of December 31, 2021).

Metropolitan Transportation Authority							
Related Bonds	Notional Amount as of 12/31/21	Effective Date	Maturity Date	Terms	Counterparty and Ratings(S&P / Moody's / Fitch)		air Value as of 12/31/21
TRB 2002D-2	\$ 200.000	01/01/07	11/01/32	Pay 4.45%; receive 69% 1M LIBOR	JPMorgan Chase Bank, NA (A+/Aa2/AA)	\$	(62.934)
TRB 2005D & 2005E	238.245	11/02/05	11/01/35	Pay 3.561%; receive 67% 1M LIBOR	UBS AG (A+/Aa3/AA-)		(45.599)
TRB 2005E	79.415	11/02/05	11/01/35	Pay 3.561%; receive 67% 1M LIBOR	AIG Financial Products (1) (BBB+ / Baa2 / BBB+)		(15.200)
TRB 2012G	355.525	11/15/12	11/01/32	Pay 3.563%; receive 67% 1M LIBOR	JPMorgan Chase Bank, NA (A+/Aa2/AA)		(82.754)
DTF 2008A	281.450	03/24/05	11/01/31	Pay 3.3156%; receive 67% 1M LIBOR	Bank of New York Mellon (AA- / Aa2 / AA)		(37.600)
Total	\$ 1,154.635					\$	(244.087)

<sup>1</sup> Guarantor: American International Group, Inc., parent of AIG Financial Products.

	MTA Bridges and Tunnels							
	Noti	onal Amount	Effective	Maturity		Counterparty and Ratings	F	air Value as of
Related Bonds	as o	of 12/31/21	Date	Date	Terms	(S&P / Moody's / Fitch)		12/31/21
TBTA 2018E & 2003B	\$	187.200	07/07/05	01/01/32	Pay 3.076%; receive 67% 1M LIBOR	Citibank, N.A. (A+ / Aa3 / A+)	\$	(30.789)
			07/07/05	01/01/20	Pay 3.076%; receive	JPMorgan Chase Bank, NA		
TBTA 2005B-2		187.200	07/07/05	01/01/32	67% 1M LIBOR	(A+/Aa2/AA)		(30.789)
TBTA 2005B-3		187.200	07/07/05	01/01/32	Pay 3.076%; receive 67% 1M LIBOR	BNP Paribas North America (A+/Aa3/AA-)		(30.789)
TBTA 2005B-4		187.200	07/07/05	01/01/32	Pay 3.076%; receive 67% 1M LIBOR	UBS AG (A+/Aa3/AA-)		(30.789)
TRB 2002G-1 & 2011B TBTA 2005A & 2001C <sup>2</sup>		100.487 <sup>3</sup>	04/01/16	01/01/30	Pay 3.52%; receive 67% 1M LIBOR	U.S. Bank N.A. (AA- / A1 / AA-)		(10.396) 3
TRB 2002G-1 & 2011B TBTA 2005A & 2001C <sup>2</sup>		100.488 <sup>3</sup>	04/01/16	01/01/30	Pay 3.52%; receive 67% 1M LIBOR	Wells Fargo Bank, N.A. (A+/Aa2/AA-)		(10.397) 3
Total	\$	949.775					\$	(143.949)

<sup>1</sup> Guarantor: BNP Paribas.

LIBOR: London Interbank Offered Rate TRB: Transportation Revenue Bonds DTF: Dedicated Tax Fund Bonds

### Risks Associated with the Swap Agreements

From MTA's and MTA Bridges and Tunnels' perspective, the following risks are generally associated with swap agreements:

Credit Risk. The risk that a counterparty becomes insolvent or is otherwise not able to perform its financial obligations. To mitigate the exposure to credit risk, the swap agreements include collateral provisions in the event of downgrades to the swap counterparties' credit ratings. Generally, MTA and MTA Bridges and Tunnels' swap agreements contain netting provisions under which transactions executed with a single counterparty are netted to determine collateral amounts. Collateral may be posted with a third-party custodian in the form of cash, U.S. Treasury securities, or certain Federal agency securities. MTA and MTA Bridges and Tunnels require its counterparties to fully collateralize if ratings fall below certain levels (in general, at the Baa1/BBB+ or Baa2/BBB levels), with partial posting requirements at higher rating levels (details on collateral posting discussed further under "Collateralization/Contingencies"). As of December 31, 2021, all of the valuations were in liability positions to MTA and MTA Bridges and Tunnels; accordingly, no collateral was posted by any of the counterparties.

The following table shows, as of December 31, 2021, the diversification, by percentage of notional amount, among the various counterparties that have entered into ISDA Master Agreements with MTA and/or MTA Bridges and Tunnels. The notional amount totals below include all swaps.

<sup>2</sup> Between November 22, 2016 and December 5, 2016, the Variable Rate Certificates of Participation, Series 2004A were redeemed. Corresponding notional amounts from the Series 2004A COPs were reassigned to MTA Bridges and Tunnels General Revenue Variable Rate Bonds, Series 2001C.

<sup>3</sup> Pursuant to an Interagency Agreement (following novations from UBS in April 2016), MTA New York City Transit is responsible for 68.7%, MTA is responsible for 21.0%, and TBTA is responsible for 10.3% of the transaction.

<sup>4</sup> On October 27, 2021 the 2002F bonds were changed to fixed-rate mode and a portion of the Citi swap was reassigned to the 2018E bonds.



Counterparty	S&P	Moody's	Fitch	Notional Amount (in thousands)	% of Total Notional Amount
JPMorgan Chase Bank, NA	A+	Aa2	AA	\$742,725	35.29%
UBS AG	A+	Aa3	AA-	425,445	20.22
The Bank of New York Mellon	AA-	Aa2	AA	281,450	13.37
Citibank, N.A.	A+	Aa3	A+	187,200	8.90
BNP Paribas US Wholesale Holdings, Corp.	A+	Aa3	AA-	187,200	8.90
U.S. Bank National Association	AA-	A1	AA-	100,487	4.78
Wells Fargo Bank, N.A.	A+	Aa2	AA-	100,488	4.77
AIG Financial Products Corp.	BBB+	Baa2	BBB+	79,415	3.77
Total				\$2,104,410	100.00%

*Interest Rate Risk.* MTA and MTA Bridges and Tunnels are exposed to interest rate risk on the interest rate swaps. On the pay-fixed, receive variable interest rate swaps, as LIBOR or SIFMA (as applicable) decreases, MTA and MTA Bridges and Tunnels' net payments on the swaps increase.

Basis Risk. The risk that the variable rate of interest paid by the counterparty under the swap and the variable interest rate paid by MTA or MTA Bridges and Tunnels on the associated bonds may not be the same. If the counterparty's rate under the swap is lower than the bond interest rate, then the counterparty's payment under the swap agreement does not fully reimburse MTA or MTA Bridges and Tunnels for its interest payment on the associated bonds. Conversely, if the bond interest rate is lower than the counterparty's rate on the swap, there is a net benefit to MTA or MTA Bridges and Tunnels.

Termination Risk. The risk that a swap agreement will be terminated and MTA or MTA Bridges and Tunnels will be required to make a swap termination payment to the counterparty and, in the case of a swap agreement which was entered into for the purpose of creating a synthetic fixed rate for an advance refunding transaction may also be required to take action to protect the tax-exempt status of the related refunding bonds.

The ISDA Master Agreement sets forth certain termination events applicable to all swaps entered into by the parties to that ISDA Master Agreement. MTA and MTA Bridges and Tunnels have entered into separate ISDA Master Agreements with each counterparty that govern the terms of each swap with that counterparty, subject to individual terms negotiated in a confirmation. MTA and MTA Bridges and Tunnels are subject to termination risk if its credit ratings fall below certain specified thresholds or if MTA/MTA Bridges and Tunnels commits a specified event of default or other specified event of termination. If, at the time of termination, a swap were in a liability position to MTA or MTA Bridges and Tunnels, a termination payment would be owed by MTA or MTA Bridges and Tunnels to the counterparty, subject to applicable netting arrangements.

The following tables set forth the Additional Termination Events for MTA/MTA Bridges and Tunnels and its counterparties.

MTA Transportation Revenue					
Counterparty Name	MTA	Counterparty			
AIG Financial Products Corp.;					
JPMorgan Chase Bank, NA;	Below Baa3 (Moody's) or BBB- (S&P)*	Below Baa3 (Moody's) or BBB- (S&P)*			
UBS AG					

<sup>\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.

MTA Dedicated Tax Fund					
Counterparty Name MTA Counterparty					
Bank of New York Mellon	Below BBB (S&P) or BBB (Fitch)*	Below A3 (Moody's) or A- (S&P)**			

<sup>\*</sup>Note: Equivalent Moody's rating is replacement for S&P or Fitch.

<sup>\*\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.

MTA Bridges and Tunnels Senior Lien					
Counterparty Name	MTA Bridges and Tunnels	Counterparty			
BNP Paribas US Wholesale Holdings,					
Corp.;					
Citibank, N.A.;	Below Baa2 (Moody's) or BBB (S&P)*	Below Baa1 (Moody's) or BBB+ (S&P)*			
JPMorgan Chase Bank, NA;					
UBS AG					

<sup>\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.



MTA Bridges and Tunnels Subordinate Lien				
Counterparty Name	MTA Bridges and Tunnels	Counterparty		
U.S. Bank National Association; Wells Fargo Bank, N.A.	BelowBaa2 (Moody's) or BBB (S&P)*	Below Baa2 (Moody's) or BBB (S&P)**		

<sup>\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P. If not below Investment Grade, MTA Bridges and Tunnels may cure such Termination Event by posting collateral at a Zero threshold.

MTA and MTA Bridges and Tunnels' ISDA Master Agreements provide that the payments under one transaction will be netted against other transactions entered into under the same ISDA Master Agreement. Under the terms of these agreements, should one party become insolvent or otherwise default on its obligations, close-out netting provisions permit the non-defaulting party to accelerate and terminate all outstanding transactions and net the amounts so that a single sum will be owed by, or owed to, the non-defaulting party.

Rollover Risk. The risk that the swap agreement matures or may be terminated prior to the final maturity of the associated bonds on a variable rate bond issuance, and MTA or MTA Bridges and Tunnels may be exposed to then market rates and cease to receive the benefit of the synthetic fixed rate for the duration of the bond issue. The following debt is exposed to rollover risk:

Associated Bond Issue	<b>Bond Maturity Date</b>	Swap Termination Date
MTA Bridges and Tunnels General Revenue Variable		
Rate Bonds, Series 2001C (swaps with U.S. Bank/Wells	January 1, 2032	January 1, 2030
Fargo)		
MTA Bridges and Tunnels General Revenue Variable		
Rate Refunding Bonds, Series 2018E (swap with	November 15, 2032	January 1, 2032
Citibank, N.A.)		
MTA Bridges and Tunnels General Revenue Variable	January 1, 2033	January 1, 2032
Rate Bonds, Series 2003B (swap with Citibank, N.A.)	January 1, 2033	January 1, 2032
MTA Bridges and Tunnels General Revenue Variable		January 1 2020 (LLC Don't/Walla Forms)
Rate Bonds, Series 2005A (swaps with U.S. Bank/Wells	November 1, 2041	January 1, 2030 (U.S. Bank/Wells Fargo) January 1, 2032 (Citibank)
Fargo and Citibank, N.A.)		January 1, 2032 (Citibalik)
MTA Transportation Revenue Variable Rate Bonds,	November 1, 2041	January 1, 2030
Series 2011B (swaps with U.S. Bank/Wells Fargo)	November 1, 2041	January 1, 2030

Collateralization/Contingencies. Under the majority of the swap agreements, MTA and/or MTA Bridges and Tunnels is required to post collateral in the event its credit rating falls below certain specified levels. The collateral posted is to be in the form of cash, U.S. Treasury securities, or certain Federal agency securities, based on the valuations of the swap agreements in liability positions and net of the effect of applicable netting arrangements. If MTA and/or MTA Bridges and Tunnels do not post collateral, the swap(s) may be terminated by the counterparty(ies).

As of December 31, 2021, the aggregate mid-market valuation of the MTA's swaps subject to collateral posting agreements was \$216.4; as of this date, the MTA was not subject to collateral posting based on its credit ratings (see further details below).

As of December 31, 2021, the aggregate mid-market valuation of MTA Bridges and Tunnels' swaps subject to collateral posting agreements was \$145.5; as of this date, MTA Bridges and Tunnels was not subject to collateral posting based on its credit ratings (see further details below).

<sup>\*\*</sup>Note: Equivalent Fitch rating is replacement for Moody's or S&P.



The following tables set forth the ratings criteria and threshold amounts applicable to MTA/MTA Bridges and Tunnels and its counterparties.

MTA Transportation Revenue					
Counterparty	MTA Collateral Thresholds (based on highest rating)	Counterparty Collateral Thresholds (based on highest rating)			
AIG Financial Products Corp.; JPMorgan Chase Bank, NA; UBS AG	Baa1/BBB+: \$10 million Baa2/BBB & below: Zero	Baa1/BBB+: \$10 million Baa2/BBB & below: Zero			

Note: Based on Moody's and S&P ratings. In all cases except JPMorgan counterparty thresholds, Fitch rating is replacement for either Moody's or S&P, at which point threshold is based on lowest rating.

MTA Dedicated Tax Fund				
Counterparty	MTA Collateral Thresholds	Counterparty Collateral Thresholds (based on highest rating)		
Bank of New York Mellon	N/A–MTA does not post collateral	Aa3/AA- & above: \$10 million A1/A+: \$5 million A2/A: \$2 million A3/A-: \$1 million Baa1/BBB+ & below: Zero		

Note: Counterparty thresholds based on Moody's and S&P ratings. Fitch rating is replacement for either Moody's or S&P.

MTA Bridges and Tunnels Senior Lien					
Counterparty	MTA Bridges and Tunnels Collateral Thresholds (based on highest rating)	Counterparty Collateral Thresholds (based on highest rating)			
BNP Paribas US Wholesale Holdings, Corp.; Citibank, N.A.; JPMorgan Chase Bank, NA; UBS AG	Baa1/BBB+: \$30 million Baa2/BBB: \$15 million Baa3/BBB- & below: Zero	A3/A-: \$10 million Baa1/BBB+ & below: Zero			

Note: MTA Bridges and Tunnels thresholds based on Moody's, S&P, and Fitch ratings. Counterparty thresholds based on Moody's and S&P ratings; Fitch rating is replacement for Moody's or S&P.

MTA Bridges and Tunnels Subordinate Lien				
Counterparty	MTA Bridges and Tunnels Collateral Thresholds (based on lowest rating)	Counterparty Collateral Thresholds (based on lowest rating)		
U.S. Bank National Association; Wells Fargo Bank, N.A.	Baa3/BBB- & below: Zero (note: only applicable as cure for Termination Event)	Aa3/AA- & above: \$15 million A1/A+ to A3/A-: \$5 million Baa1/BBB+ & below: Zero		

Note: Thresholds based on Moody's and S&P ratings. Fitch rating is replacement for Moody's or S&P.

Swap payments and Associated Debt. The following tables contain the aggregate amount of estimated variable- rate bond debt service and net swap payments during certain years that such swaps were entered into in order to: protect against the potential of rising interest rates; achieve a lower net cost of borrowing; reduce exposure to changing interest rates on a related bond issue; or, in some cases where Federal tax law prohibits an advance refunding, achieve debt service savings through a synthetic fixed rate. As rates vary, variable-rate bond interest payments and net swap payments will vary. Using the following assumptions, debt service requirements of MTA's and MTA Bridges and Tunnels' outstanding variable-rate debt and net swap payments are estimated to be as follows:

- It is assumed that the variable-rate bonds would bear interest at a rate of 4.0% per annum.
- The net swap payments were calculated using the actual fixed interest rate on the swap agreements.



MTA (in millions)						
December 31, 2021	Principal	Interest	Net Swap Payments	Total		
2022	63.3	42.6	(4.4)	101.5		
2023	65.7	40.1	(4.1)	101.7		
2024	68.2	37.5	(3.8)	101.9		
2025	70.8	34.8	(3.4)	102.1		
2026	63.6	32.0	(3.1)	92.4		
2027-2031	617.0	351.7	(10.5)	958.3		
2032-2036	370.8	156.3	(2.0)	525.2		
2037-2041	99.6	11.6	(0.3)	111.0		

MTA Bridges and Tunnels (in millions)						
Year Ended	Variable-R	Variable-Rate Bonds				
December 31, 2021	Principal	Interest	Net Swap Payments	Total		
2022	27.6	34.9	(6.8)	55.7		
2023	28.6	33.8	(6.8)	55.6		
2024	57.2	31.5	(6.4)	82.3		
2025	30.4	30.3	(6.4)	54.3		
2026	31.5	29.1	(6.3)	54.3		
2027-2031	543.0	95.3	(22.8)	615.5		
2032-2036	184.1	3.0	(0.1)	187.0		
2037-2041	=	1.0	-	1.0		

#### 8. LEASE TRANSACTIONS

Leveraged Lease Transactions: Qualified Technological Equipment — On December 19, 2002, the MTA entered into four sale/leaseback transactions whereby MTA New York City Transit transferred ownership of certain MTA New York City Transit qualified technological equipment ("QTE") relating to the MTA New York City Transit automated fare collection system to the MTA. The MTA sold that equipment to third parties and the MTA leased that equipment back from such third parties. Three of those four leases were terminated early and are no longer outstanding. The fourth lease contains the option for the MTA to exercise a fixed-price purchase option in 2022 for the equipment or to continue to make lease payments until the lease expires in 2026 at which time the MTA may elect to purchase the equipment or return the equipment to the third-party owner.

Under the terms of the outstanding sale/leaseback agreement the MTA initially received \$74.9, which was utilized as follows: The MTA paid \$52.1 to an affiliate of the lender to the third party, which affiliate has the obligation to pay to MTA an amount equal to the rent obligations under the lease attributable to the debt service on the loan from the third party's lender. The MTA also purchased U.S. Treasury debt securities in amounts and with maturities, which are expected to be sufficient to pay the remainder of the regularly scheduled lease rent payments under the lease and the purchase price due upon exercise by the MTA of the related purchase option if exercised.

**Leveraged Lease Transaction: Subway Cars** — On September 3, 2003, the MTA entered into a sale/leaseback transaction whereby MTA New York City Transit transferred ownership of certain MTA New York City Transit subway cars to the MTA, the MTA sold those cars to a third party, and the MTA leased those cars back from such third party. The MTA subleased the cars to MTA New York City Transit. The lease expires in 2033.At the lease expiration, the MTA has the option of either exercising a fixed-price purchase option for the cars or returning the cars to the third-party owner.

Under the terms of the sale/leaseback agreement, the MTA initially received \$168.1, which was utilized as follows: The MTA paid \$126.3 to an affiliate of one of the lenders to the third party, which affiliate has the obligation to pay to the MTA an amount equal to the rent obligations under the lease attributable to the debt service on such loan from such third party's lender. The obligations of the affiliate of the third party's lender are guaranteed by American International Group, Inc. The MTA also purchased the Federal National Mortgage Association ("FNMA") and U.S. Treasury securities in amounts and with maturities which are sufficient to make the lease rent payments equal to the debt service on the loans from the other lender to the third party and to pay the remainder of the regularly scheduled rent due under that lease and the purchase price



due upon exercise by the MTA of the fixed price purchase option if exercised. The amount remaining after payment of transaction expenses, \$7.4, was the MTA's benefit from the transaction.

Leveraged Lease Transactions: Subway Cars — On September 25, 2003 and September 29, 2003, the MTA entered into two sale/leaseback transactions whereby MTA New York City Transit transferred ownership of certain MTA New York City Transit subway cars to the MTA, the MTA sold those cars to third parties, and the MTA leased those cars back from such third parties. The MTA subleased the cars to MTA New York City Transit. Both leases expire in 2033.At the lease expiration, MTAHQ has the option of either exercising a fixed-price purchase option for the cars or returning the cars to the third-party owner.

Under the terms of the sale/leaseback agreements, the MTA initially received \$294, which was utilized as follows: In the case of one of the leases, the MTA paid \$97 to an affiliate of one of the lenders to the third party, which affiliate has the obligation to pay to the MTA an amount equal to the rent obligations under the lease attributable to the debt service on the loan from such third party's lender. The obligations of the affiliate of such third party's lender are guaranteed by American International Group, Inc. In the case of the other lease, the MTA purchased U.S. Treasury debt securities in amounts and with maturities, which are sufficient for the MTA to make the lease rent payments equal to the debt service on the loan from the lender to that third party. In the case of both of the leases, the MTA also purchased Resolution Funding Corporation ("REF-CO") debt securities that mature in 2030.Under an agreement with AIG Matched Funding Corp.(guaranteed by American International Group, Inc.), AIG Matched Funding Corp. receives the proceeds from the REFCO debt securities at maturity and is obligated to pay to the MTA amounts sufficient for the MTA to pay the remainder of the regularly scheduled lease rent payments under those leases and the purchase price due upon exercise by the MTA of the purchase options if exercised. The amount remaining after payment of transaction expenses, \$24, was the MTA's net benefit from these two transactions.

On September 16, 2008, the MTA learned that American International Group, Inc. was downgraded to a level that under the terms of the transaction documents for the sale/leaseback transaction that closed on September 29, 2003, the MTA was required to replace or restructure the applicable Equity Payment Undertaking Agreement provided by AIG Financial Products Corp. and guaranteed by American International Group, Inc. On December 17, 2008, MTA terminated the Equity Payment Undertaking Agreement provided by AIG Financial Products Corp. and guaranteed by American International Group, Inc. and provided replacement collateral in the form of U.S. Treasury strips. REFCO debt security that was being held in pledge was released to MTA. On November 6, 2008, the MTA learned that Ambac Assurance Corp., the provider of the credit enhancement that insures the MTA's contingent obligation to pay a portion of the termination values upon an early termination in both the September 25, 2003 and September 29, 2003 transactions, was downgraded to a level that required the provision of new credit enhancement facilities for each lease by December 21, 2008.

On December 17, 2008, MTA terminated the Ambac Assurance Corp. surety bond for the lease transaction that closed on September 25, 2003 and since then MTA has provided short-term U.S. Treasury debt obligations as replacement collateral. As of December 31, 2021, the fair value of total collateral funds was \$39.4.

On January 12, 2009, MTA provided a short-term U.S.Treasury debt obligation as additional collateral in addition to the Ambac Assurance Corp. surety bond for the lease transaction that closed on September 29, 2003. From time to time, additional collateral has been required to be added such that the total market value of the securities being held as additional collateral are expected to be sufficient to pay the remainder of the regularly scheduled lease rent payments under the lease. As of December 31, 2021, the fair value of total collateral funds was \$55.5.

MTA Hudson Rail Yards Ground Leases – In the 1980's, the MTA developed a portion of the Hudson Rail Yards as a storage yard, car wash and repair facility for the Long Island Railroad Company ("LIRR") rail cars entering Manhattan. It was anticipated that, eventually, the air rights above the Hudson Rail Yards would be developed to meet the evolving needs for high-quality commercial, retail, residential and public space in Manhattan. The Hudson Rail Yards is a rectangular area of approximately 26-acres bounded by 10th Avenue on the east, 12th Avenue on the west, 30th Street on the south and 33rd Street on the North. The Hudson Rail Yards is divided into the Eastern Rail Yards ("ERY") and the Western Rail Yards ("WRY"). In 2008, the MTA selected a development team led by the Related Companies, L.P to develop a commercial, residential and retail development on the ERY and the WRY.

To undertake the development of the Hudson Rail Yards, the MTA entered into two 99-year ground leases ("Balance Leases") for the airspace above a limiting plane above the tracks (from 31st to 33rd Streets) and the area where there are no rail tracks (from 30th to 31st Streets) within the boundary of the Hudson Rail Yards ("Ground Leased Property"), one for the ERY beginning December 3, 2012 (the "ERY Balance Lease") and the other for the WRY beginning December 3, 2013 (the "WRY Balance Lease"). The Balance Leases do not encumber the railroad tracks, which will continue to be used for transportation purposes. Each Ground Lease Tenant on the ERY Balance Lease and the WRY Balance Lease has the option to purchase fee title to the Ground Leased Property at any time following completion of construction of the building on the Ground Leased Property.

The ERY Balance Lease was terminated and substituted with separate Severed Parcel Ground Leases, each dated as of April 10, 2013, and entered into between the MTA, as landlord, and a special purpose entity controlled by Related-Oxford, as



Ground Lease Tenants. Several of the Ground Lease Tenants under the Severed Parcel Ground Leases have exercised their options to purchase fee title, as well as numerous condominium owners in residential buildings.

The WRY Balance Lease is between the MTA and a special purpose entity controlled by Related-Oxford demising the WRY and is also expected to be severed into separate parcels as development progresses.

The Severed Parcel Ground Leases in the ERY, fee title for which has not been purchased, and the WRY Balance Lease (until any severed parcel ground leases are purchased) are pledged as security for the Series 2016A Hudson Yards Trust Obligations.

The following ground leases also do not provide a source of payment or security for the Series 2016A Hudson Yards Trust Obligations:

- o the ground lease demising the Culture Shed, which does not pay any Monthly Ground Rent, and
- o the ground lease demising the Open Space Severed Parcel which does not pay any Monthly Ground Rent.

The MTA has classified the ERY and WRY Ground Leases as operating leases. If at the inception of the ground leases, the leases meet one or more of the following four criteria, the lease should be classified as a capital lease. Otherwise, it should be classified as an operating lease. The ERY and WRY Ground Leases did not meet one or more of the following criteria:

- i. the lease transfers ownership of the property to the lessee by the end of the lease term.
- ii. the lease contains a bargain purchase option.
- iii. the lease term is equal to 75 percent or more of the estimated economic life of the leased property.
- iv. the present value at the beginning of the lease term of the minimum lease payments, equals or exceeds 90 percent of the excess of the fair value of the leased property to the lessor at the inception of the lease over any related investment tax credit retained by and expected to be realized by the lessor.

Minimum rent receipts for ERY and WRY Ground Leases are as follows as of December 31, 2021 (in \$ thousands):

Year	ERY	WRY	Total
2022	9	33	42
2023	10	33	43
2024	10	36	46
2025	10	36	46
2026	10	36	46
Thereafter	3,955	14,245	18,200
Total	\$4,004	\$14,419	\$18,423

Other Lease Transactions — On July 29, 1998 the MTA, (solely on behalf of MTA Long Island Rail Road and MTA Metro-North Railroad, MTA New York City Transit, and MTA Bridges and Tunnels) entered into a lease and related agreements whereby each agency, as sublessee, will rent, an office building at Two Broadway in lower Manhattan. The triple-net-lease has an initial stated term of approximately 50 years, with the right to extend the lease for two successive 15-year periods at a rental of at least 95% of fair market rent. Remaining payments under the lease approximate \$1.0 billion. Under the subleases, the lease is apportioned as follows: MTA New York City Transit, 68.7%, MTA, 21%; and MTA Bridges and Tunnels, 10.3%. However, the involved agencies have agreed to sub-sublease space from one another as necessary to satisfy actual occupancy needs. The agencies will be responsible for obligations under the lease based on such actual occupancy percentages. Actual occupancy percentages at December 31, 2021, for the MTA New York City Transit, MTA Bridges and Tunnels and MTA (including MTA Bus, MTA Construction and Development and MTA Business Service Center) were 49.8%, 7.4% and 42.8%, respectively. MTAs' sublease is for a year-to-year term, automatically extended, except upon the giving of a non-extension notice by MTA. The lease is comprised of both operating and capital elements, with the portion of the lease attributable to the land recorded as an operating lease, and the portion of the lease attributable to the building recorded as a capital lease. The total annual rental payments over the initial lease term are \$1,602 with rent being abated from the commencement date through June 30, 1999. The office building at 2 Broadway, is principally occupied by MTA New York City Transit, MTA Bridges and Tunnels, MTA Construction and Development, and MTAHQ.

MTA reflected a capital lease obligation, as of December 31, 2021 and 2020, of \$245 and \$241, respectively. The MTA made rent payments of \$28 and \$28 for the years ended December 31, 2021 and 2020, respectively. MTA pays the lease payments on behalf of MTA New York City Transit and MTA Bridges and Tunnels and subsequently makes monthly chargebacks in the form of rental payments. During 2021, the total of the rental payments charged to MTA New York City Transit and MTA Bridges and Tunnels was \$7.16 and \$2.22 less, respectively, than the lease payment made by MTA on behalf of MTA New York City Transit and MTA Bridges and Tunnels.



The adjusted capital lease for the aforementioned building is being amortized over the remaining life of the lease. The cost of the building and related accumulated amortization at December 31, 2021 and 2020, is as follows (in millions):

	December 31,	December 31,	
	2021	2020	
Capital lease - building	\$196	\$196	
Less accumulated amortization	(102)	(99)	
Capital lease - building - net	\$94	\$97	

On April 8, 1994, the MTA amended its lease for the Harlem/Hudson line properties, including Grand Central Terminal. This amendment initially extends the lease term, previously expiring in 2031, an additional 110 years and, pursuant to several other provisions, an additional 133 years. In addition, the amendment grants the MTA an option to purchase the leased property after the 25th anniversary of the amended lease, subject to the owner's right to postpone such purchase option exercise date for up to an additional 15 years if the owner has not yet closed the sale, transfer or conveyance of an aggregate amount of 1,000,000 square feet or more of development rights appurtenant to Grand Central Terminal and the associated zoning lots. The amended lease comprises both operating (for the lease of land) and capital (for the lease of buildings and track structure) elements.

On February 28, 2020, the MTA exercised its right to purchase Grand Central Terminal for \$33. Both the operating and capital leases were removed from the balance sheet and the building will now be depreciated as an asset.

In August 1988, the MTA entered into a 99-year lease agreement with Amtrak for Pennsylvania Station. This agreement, with an option to renew, is for rights to the lower concourse level and certain platforms.

The \$45 paid to Amtrak by the MTA under this agreement is included in other assets. This amount is being amortized over 30 years.

Total rent expense under operating leases approximated \$72.5 and \$70.0 for the years ended December 31, 2021 and 2020, respectively.

At December 31, 2021, the future minimum lease payments under non-cancelable leases are as follows (in millions):

Years	O	perating	Capital
2022	\$	70 \$	74
2023		69	18
2024		71	20
2025		70	20
2026		71	20
2027–2031		358	119
2032–2036		349	567
2037–2041		262	164
2042–2046		280	181
2047–2051		86	57
Future minimum lease payments	\$	1,686	1,240
Amount representing interest			(803)
Total present value of capital lease obligations			437
Less current present value of capital lease obligations			14
Noncurrent present value of capital lease obligations		\$	423



# **Capital Leases Schedule**

For the Year Ended December 31, 2021 (in millions)

	December 31,				De	December 31,	
Description	2020		Increase	Decrease		2021	
Sumitomo	\$	15	\$	- \$	- \$	15	
Met Life		6		1	-	7	
Met Life Equity		19		-	-	19	
Bank of New York		22		-	-	22	
Bank of America		33		2	-	35	
Bank of America Equity		16		-	-	16	
Sumitomo		18		1	5	14	
Met Life Equity		61		3	-	64	
Grand Central Terminal & Harlem Hudson							
2 Broadway Lease Improvement		182		3	-	185	
2 Broadway		59		1	-	60	
Total MTA Capital Lease		431	\$ 1	11 \$	5	437	
Current Portion Obligations under Capital Lease		4				14	
Long Term Portion Obligations under Capital Lease	\$	427			\$	423	

#### **Capital Leases Schedule**

For the Year Ended December 31, 2020 (in millions)

(	December 31,				December 31,	
Description	2	019	Increase	Decrease	2020	
Sumitomo	\$	15 \$	- \$	-	\$ 15	
Met Life		6	-	-	6	
Met Life Equity		19	-	-	19	
Bank of New York		22	-	-	22	
Bank of America		42	-	9	33	
Bank of America Equity		16	-	-	16	
Sumitomo		24	-	6	18	
Met Life Equity		58	3	-	61	
Grand Central Terminal & Harlem Hudson						
Railroad Lines		13	-	13	-	
2 Broadway Lease Improvement		179	3	-	182	
2 Broadway		58	1	-	59	
Total MTA Capital Lease	\$	452 \$	7 \$	28	\$ 431	
Current Portion Obligations under Capital Lease		14			4	
Long Term Portion Obligations under Capital Lease	\$	438			\$ 427	

#### 9. FUTURE OPTION

In 2010, MTA and MTA Long Island Railroad entered into an Air Space Parcel Purchase and Sale Agreement ("Agreement") with Atlantic Yards Development Company, LLC ("AADC") pursuant to which AADC has obtained an exclusive right to purchase fee title to a parcel (subdivided into six sub-parcels) of air space above the MTA Long Island Railroad Vanderbilt Yard in Brooklyn, New York. Initial annual payments of \$2 (covering all six sub-parcels) commenced on June 1, 2012 and were paid on the following three anniversaries of that date. Starting on June 1, 2016, and continuing on each anniversary thereof through and including June 1, 2031, an annual option payment in the amount of \$11 is due. The Agreement provides that all such payments are (i) fully earned by MTA as of the date due in consideration of the continuing grant to AADC of the rights to purchase the air space sub-parcels, (ii) are non-refundable except under certain limited circumstances and (iii) shall be deemed to be payments on account of successive annual options granted to AADC.

After AADC and its affiliates have completed the new yard and transit improvements to be constructed by them at and in the vicinity of the site, AADC has the right from time to time until June 1, 2031, to close on the purchase of any or all of the six air rights sub-parcels. The purchase price for the six sub-parcels is an amount, when discounted at 6.5% per annum



from the date of each applicable payment that equals a present value of \$80 as of January 1, 2010. The purchase price of any particular air space sub-parcel is equal to a net present value as of January 1, 2010 (calculated based on each applicable payment) of the product of that sub-parcel's percentage of the total gross square footage of permissible development on all six air space sub-parcels multiplied by \$80.

#### 10. ESTIMATED LIABILITY ARISING FROM INJURIES TO PERSONS

A summary of activity in estimated liability as computed by actuaries arising from injuries to persons, including employees, and damage to third-party property for the years ended December 31, 2021 and 2020 is presented below (in millions):

	mber 31, 2021	ember 31, 2020
Balance - beginning of year	\$ 4,675	\$ 4,587
Activity during the year:		
Current year claims and changes in estimates	817	520
Claims paid	 (392)	 (432)
Balance - end of year	5,100	4,675
Less current portion	 (543)	 (491)
Long-term liability	\$ 4,557	\$ 4,184

See Note 2 for additional information on MTA's liability and property disclosures.

#### 11. COMMITMENTS AND CONTINGENCIES

The MTA Group monitors its properties for the presence of pollutants and/or hazardous wastes and evaluates its exposure with respect to such matters. When the expense, if any, to clean up pollutants and/or hazardous wastes is estimable it is accrued by the MTA (see Note 12).

Management has reviewed with counsel all actions and proceedings pending against or involving the MTA Group, including personal injury claims. Although the ultimate outcome of such actions and proceedings cannot be predicted with certainty at this time, management believes that losses, if any, in excess of amounts accrued resulting from those actions will not be material to the financial position, results of operations, or cash flows of the MTA.

Under the terms of federal and state grants, periodic audits are required and certain costs may be questioned as not being appropriate expenditures under the terms of the grants. Such audits could lead to reimbursements to the grantor agencies. While there have been some questioned costs in recent years, ultimate repayments required of the MTA have been infrequent.

**Financial Guarantee** — *Moynihan Station Development Project* - On May 22, 2017, the MTA Board approved entering into various agreements, including a Joint Services Agreement ("JSA"), necessary to effectuate Phase 2 of the Moynihan Station Development Project (the "Project"), which will entail the redevelopment of the James A. Farley Post Office Building to include a new world-class train hall to be shared by National Railroad Passenger Corporation ("Amtrak"), the Long Island Rail Road and Metro-North Commuter Railroad (the "Train Hall"), as well as retail and commercial space (Retail and Commercial Space).

On July 21, 2017, New York State Urban Development Corporation d/b/a Empire State Development ("ESD") executed a TIFIA Loan Agreement with the United States Department of Transportation (the "TIFIA Lender") in an amount of up to \$526 (the "TIFIA Loan"), with a final maturity date of the earlier of (1) October 30, 2055 and (2) the last semi-annual payment date occurring no later than the date that is thirty-five (35) years following the date on which the Train Hall is substantially completed. The proceeds of the TIFIA Loan are being used to pay for costs of the construction of the Train Hall. The TIFIA Loan is secured by a mortgage on the Train Hall property. The principal and interest on the TIFIA Loan is payable from a pledged revenue stream that primarily consists of PILOT payments to be paid by certain tenants in the Retail and Commercial Space. The amount of the PILOT payments is fixed through September, 2030 and is thereafter calculated based upon the assessed value of the properties as determined by the City. The TIFIA Loan is further supported by a TIFIA Debt Service Reserve Account, which is funded in an amount equal to the sum of the highest aggregate TIFIA debt service amounts that will become due and payable on any two consecutive semi-annual payment dates in a five-year prospective period.



Simultaneously with the execution of the TIFIA Loan Agreement, the JSA was entered into by and among the MTA, the TIFIA Lender, ESD, and Manufacturers and Traders Trust Company (as Pilot trustee). Under the JSA, MTA is obligated to satisfy semi-annual deficiencies in the TIFIA Debt Service Reserve Account. MTA's obligations under the JSA are secured by the same moneys available to MTA for the payment of the operating and maintenance expenses of the operating agencies.

MTA's obligation under the JSA remains in effect until the earliest to occur of (a) the MTA JSA Release Date (as defined in the JSA and generally summarized below), (b) the date on which the TIFIA Loan has been paid in full and (c) foreclosure by the TIFIA Lender under the Mortgage (as defined in the TIFIA Loan Agreement).

The obligations of the MTA under the JSA will be terminated and released on the date (the "MTA JSA Release Date") on which each of the following conditions have been satisfied: (a) substantial completion of (1) the Train Hall Project and initiation by LIRR and Amtrak of transportation operations therein, and (2) the Retail and Commercial Space; (b) all material construction claims have been discharged or settled; (c) the PILOT payments have been calculated based upon assessed value for at least three years (i.e., 2033); (d) certain designated defaults or events of default under the TIFIA Loan Agreement have not occurred and are continuing; and (e) either of the following release tests shall have been satisfied:

- Release Test A: (a) certain debt service coverage ratios have equaled or exceeded levels set forth in the JSA, taking into consideration assessment appeals; (b) occupancy levels have equaled or exceeded levels set forth in the JSA; and (c) the TIFIA Loan is rated no lower than "BBB-" or "Baa3" by one rating agency, all as more fully described in the JSA; or
- Release Test B: the TIFIA Loan is rated no lower than "A-" or "A3" by two rating agencies, all as more fully described in the JSA.

On the date the JSA was executed and delivered, MTA deposited \$20 into an account, which MTA invests, to be used in accordance with the JSA to reimburse MTA in the event it is obligated under the JSA to make semi-annual deficiency payments to the TIFIA Debt Service Reserve Account.

On June 12, 2017, the MTA entered into a Memorandum of Understanding with ESD and the New York State Division of the Budget (the "Division") whereby the Division agreed that in the event in any given year during the term of the JSA (i) the MTA is required to make a semi-annual deficiency payment to the TIFIA Debt Service Reserve Account, and (ii) the Division has determined that the MTA has incurred an expense that would otherwise have been incurred by the State of New York (the "State Expense"), the Division will consider entering into a cost recovery agreement with the MTA pursuant to subdivision 4 of Section 2975 of the Public Authorities Law (the "PAL") for such year that will provide that in lieu of paying the full assessment pursuant to subdivisions 2 and 3 of Section 2975 of the PAL in any such year, any such assessment shall be reduced by the State Expense.

#### 12. POLLUTION REMEDIATION COST

In accordance with GASB Statement No. 49, Accounting and Financial Reporting for Pollution Remediation Obligations, an operating expense provision and corresponding liability measured at its current value using the expected cash flow method is recognized when an obligatory event occurs. Pollution remediation obligations are estimates and subject to changes resulting from price increase or reductions, technology, or changes in applicable laws or regulations. The MTA does not expect any recoveries of cost that would have a material effect on the recorded obligations.

The MTA recognized pollution remediation expenses of \$37 and \$123 for the years ended December 31, 2021 and 2020, respectively. A summary of the activity in pollution remediation liability at December 31, 2021 and 2020 were as follows:

	021	mber 31, 2020
Balance at beginning of year	\$ 152	\$ 151
Current year expenses/changes in estimates	37	123
Current year payments	(44)	(122)
Balance at end of year	 145	152
Less current portion	29	29
Long-term liability	\$ 116	\$ 123

The MTA's pollution remediation liability primarily consists of future remediation activities associated with asbestos removal, lead abatement, ground water contamination, arsenic contamination and soil remediation.



#### 13. NON-CURRENT LIABILITIES

Changes in the activity of non-current liabilities for the years ended December 31, 2021 and 2020 are presented below:

		ance ber 31,					alance ember 31,					Balance cember 31,
	20	19	Add	itions	Reducti	ions	 2020	Addition	ıs	Red	uctions	 2021
Non-current liabilities:												
Contract retainage payable	\$	430	\$	49	\$	-	479	\$	-	\$	(63)	\$ 416
Other long-term liabilities		372		136			 508		_		(73)	 435
Total non-current liabilities	\$	802	\$	185	\$		\$ 987	\$		\$	(136)	\$ 851

## 14. NOVEL CORONAVIRUS (COVID-19)

On March 12, 2020, the World Health Organization declared the COVID-19 outbreak to be a pandemic in the face of the global spread of the virus. The outbreak of COVID-19, a respiratory disease caused by a new strain of coronavirus, was first detected in China, and has since spread globally, including to the United States and to New York State. On March 7, 2020, Governor Cuomo declared a Disaster Emergency in the State of New York. On March 13, 2020, President Trump declared a national state of emergency as a result of the COVID-19 pandemic. By order of Governor Cuomo ("New York State on PAUSE"), effective March 22, 2020, all non-essential businesses Statewide were required to be closed, among other restrictive social distancing and related measures. The PAUSE order was lifted on May 15, 2020 for five New York regions that met the requirements to start opening. However, a new order was signed by Governor Cuomo on May 15, 2020 extending the PAUSE to June 13, 2020 for New York City, Long Island, and the Hudson Valley. The impact of social distancing and subsequent State governmental orders limiting non-essential activities caused by the COVID-19 pandemic resulted in a sharp decline in the utilization of MTA services, dramatic declines in MTA public transportation system ridership and fare revenues, and MTA Bridge and Tunnel crossing traffic and toll revenues. A significant development has been the impact of COVID-19 vaccinations on the MTA region. Capacity restrictions on restaurants, bars, event venues and businesses put in place due to COVID-19 were mostly removed on May 19, 2021, and all remaining restrictions were eliminated on June 15 after the State reached its goal of 70% of adults receiving at least a first dose of the vaccine. MTA has seen ridership steadily improve since the low point of ridership during the pandemic in 2020; however, the surge from the Omicron variant in mid-December has slowed ridership growth.

Coronavirus Aid, Relief and Economic Security Ac ("CARES Act'). The CARES Act is a \$2.2 trillion economic stimulus bill passed by Congress and signed into law by the President on March 27, 2020 in response to the economic fallout of the COVID-19 pandemic in the United States. The CARES Act through the Federal Transit Administration's ("FTA") formula funding provisions provided approximately \$4 billion to MTA. Funding was provided at a 100 percent Federal share, with no local match required, and is available to support operating, and other expenses generally eligible under those programs and incurred beginning on January 20, 2020, to prevent, prepare for, and respond to the COVID-19 pandemic, including operating service for essential workers, such as medical personnel and first responders. On May 8, 2020, the FTA approved MTA's initial grant application of \$3.9 billion. On June 25, 2020, FTA approved an amendment to the initial CARES Act grant adding approximately \$98 in additional formula grant allocations to MTA for a CARES Act grant total of \$4.0 billion. As of December 31, 2020, a total of \$4.0 billion was released to MTA for operating assistance that occurred from January 20, 2020, through July 31, 2020. The MTA has received all CARES Act funding as provided in the first congressional relief package.

Federal Reserve Bank of New York's Municipal Liquidity Facility LLC ("MLF"). Due to the COVID-19 pandemic, the Federal Reserve established the MLF in April 2020 as a source of emergency financing by being available to purchase up to \$500 billion of short-term notes from state and local governments and certain public entities to ensure they had access to credit during the COVID-19 pandemic. MTA was able to utilize the MLF twice before the MLF window closed at the end of December 2020. On August 26, 2020, MTA directly placed with the MLF \$450.72 Transportation Revenue BANs, Series 2020B, which were issued to retire existing Transportation Revenue BANs maturing on September 1, 2020. The MTA subsequently retired the MLF \$450.72 Transportation Revenue BANs, Series 2020B, with an issuance of Dedicated Tax Funds bonds on March 1, 2022. MTA issued into the MLF a second time by directly placing \$2.907 billion Payroll Mobility Tax BANs issued for working capital on December 17, 2020. The \$2.907 billion MLF loan matures in 2023.

Coronavirus Response and Relief Supplemental Appropriation Act of 2021 ("CRRSAA"). On December 27, 2020, the President signed into law the Coronavirus Response and Relief Supplemental Appropriation Act of 2021 ("CRRSAA") that includes \$900 billion for various COVID-19 economic relief programs to address hardships caused by the coronavirus pandemic and a \$1.4 trillion government funding package to fund the government through September 30, 2021. Included in the legislation is \$45 billion in financial assistance to the transportation industry, including \$16 billion for another round of airline employee and contractor payroll support: \$14 billion for transit; \$10 billion for highways; \$2 billion for intercity buses; \$2 billion for airports; and \$1 billion for Amtrak. The MTA received \$4.1 billion in aid from the CRRSAA between December 2021 (\$0.6 billion) and January 2022 (\$3.5 billion). Release of such funds by the FTA was awaiting agreement of



the final allocation of CRRSAA and ARPA monies among the states of New York, New Jersey, and Connecticut which was made on November 9, 2021. This federal relief is expected to offset operating deficits in 2021.

American Rescue Plan Act ("ARPA"). On March 11, 2021, President Biden signed into law the American Rescue Plan Act of 2021 ("ARPA"). The \$1.9 trillion package is intended to combat the COVID-19 pandemic, including the public health and economic impacts. The package includes \$30 billion of direct federal aid to transportation agencies. Release of such funds was awaiting agreement on the final allocation of CRRSAA and ARPA monies among the states of New York, New Jersey, and Connecticut which was made on November 9, 2021. The MTA expects to receive initially \$6.1 billion in aid from ARPA in 2022, of which \$4.9 billion has been received through May 27, 2022. In September of 2021, Additional Assistance funding was made available to transit systems demonstrating additional pandemic associated needs. Details on the receipts and timing of the additional assistance is not yet available.

Federal Emergency Management Agency ("FEMA") Reimbursement. The MTA is eligible for FEMA payments which are expected to cover expenses related to the COVID-19 pandemic, over and above normal emergency costs that are not covered by other federal funding. An estimated \$651.7 of direct COVID-19-related expenses incurred from the start of the pandemic through December 31, 2021 was submitted by MTA to the New York State Department of Budget (DOB), which is the agency managing COVID-19-related expense reimbursement from FEMA.

#### 15. FUEL HEDGE

MTA partially hedges its fuel cost exposure using financial hedges. All MTA fuel hedges provide for up to 24 monthly settlements. The table below summarizes the active ultra-low sulfur diesel ("ULSD") hedges in whole dollars:

	BOA_	Goldman		Macquarie	Goldman		Macquarie	Goldman
Counterparty	Merrill	Sachs	Cargill	Energy LLC	Sachs	BOA_Merrill	Energy LLC	Sachs
Trade Date	1/30/2020	2/25/2020	3/24/2020	4/30/2020	5/27/2020	6/30/2020	7/28/2020	8/27/2020
Effective Date	1/1/2021	2/1/2021	3/1/2021	4/1/2021	5/1/2021	6/1/2021	7/1/2021	8/1/2021
Termination Date	12/31/2021	1/31/2022	2/28/2022	3/31/2022	4/30/2022	5/31/2022	6/30/2022	7/31/2022
Price/Gal	\$1.7100	\$1.6750	\$1.3473	\$1.1800	\$1.2640	\$1.3685	\$1.4200	\$1.4340
Original Notional Quantity	2,839,808	2,841,331	2,819,772	2,819,762	2,819,768	2,819,748	2,819,761	2,819,736

	Goldman	Goldman	BOA_			Goldman		Goldman
Counterparty	Sachs	Sachs	Merrill	JPMorgan	JPMorgan	Sachs	JPMorgan	Sachs
Trade Date	9/29/2020	10/27/2020	11/30/2020	12/29/2020	1/26/2021	2/23/2021	3/31/2021	4/29/2021
Effective Date	9/1/2021	10/1/2021	11/1/2021	12/1/2021	1/1/2022	2/1/2022	3/1/2022	4/1/2022
Termination Date	8/31/2022	9/30/2022	10/31/2021	11/30/2022	12/31/2022	1/31/2023	2/28/2023	3/31/2023
Price/Gal	\$1.3145	\$1.3120	\$1.4615	\$1.5355	\$1.6051	\$1.7845	\$1.8072	\$1.9360
Original Notional Quantity	2,862,960	2,825,162	2,841,038	2,826,765	2,862,779	2,826,759	2,826,761	2,826,752

	BOA_	Goldman		BOA_	BOA_	BOA_		Goldman
Counterparty	Merrill	Sachs	JPMorgan	Merrill	Merrill	Merrill	Cargill	Sachs
Trade Date	6/2/2021	6/29/2021	7/27/2021	8/31/2021	9/29/2021	10/25/2021	11/30/2021	12/28/2021
Effective Date	5/1/2022	6/1/2022	7/1/2022	8/1/2022	9/1/2022	10/1/2022	11/1/2022	12/1/2022
Termination Date	4/30/2023	5/31/2023	6/30/2023	7/31/2023	8/31/2023	9/30/2023	10/31/2023	11/30/2023
Price/Gal	\$2.0495	\$2.0610	\$2.0505	\$2.0345	\$2.1459	\$2.2879	\$2.0100	\$2.2227
Original Notional Quantity	2,826,757	2,826,738	2,826,751	2,826,725	2,826,740	2,826,749	2,826,751	2,826,765

The monthly settlements are based on the daily prices of the respective commodities whereby MTA will either receive a payment, or make a payment to the various counterparties, depending on the average monthly price of the commodities in relation to the contract prices. At a contract's termination date, cash settlement will take place. As of December 31, 2021, the total outstanding notional value of the ULSD contracts was 52.1 million gallons with a positive fair market value of \$23.4. The valuation of each trade was based on discounting future net cash flows to a single current amount (the income approach) using observable commodity futures prices (Level 2 inputs).



# 16. CONDENSED COMPONENT UNIT INFORMATION

The following tables present condensed financial information for MTA's component units (in millions).

				Aetro North		Long Island	(	New York City Transit	Triborough Bridge and Tunnel			Co	nsolidated
December 31, 2021		MTA		ilroad		ailroad	`	Authority	Authority	El	liminations		Total
Current assets	\$	15,725	_	232	_	247	\$			_	(792)	\$	17,887
Capital assets	•	13,514	-	6,096	•	9,889	*	46,653	7,607	*	-	-	83,759
Other Assets		15,888		-		-		1	3		(13,781)		2,111
Intercompany receivables		708		333		349		1,814	2,874		(6,078)		, -
Deferred outflows of resources		1,912		849		1,047		3,646	580		(171)		7,863
Total assets and deferred outflows of resources	\$	47,747	\$	7,510	\$		\$			\$	(20,822)	<u>\$</u>	111,620
Current liabilities	\$	9,905	\$	362	\$	273	\$	2,140	\$ 938	\$	(59)	<b>\$</b>	13,559
Non-current liabilities		40,900		2,797		4,462		22,361	13,763		(123)		84,160
Intercompany payables		5,268		117		22		-	595		(6,002)		-
Deferred inflows of resources		447		132		335		3,602	242		-		4,758
Total liabilities and deferred inflows of resources	\$	56,520	\$	3,408	\$	5,092	\$	28,103	\$ 15,538	\$	(6,184)	\$	102,477
Net investment in capital assets	\$	(33,963)	\$	6,085	\$	9,866	\$	46,407	\$ 2,147	\$	(643)	\$	29,899
Restricted		2,351		-		-		-	1,606		(1,347)		2,610
Unrestricted		22,839		(1,983)		(3,426)	_	(21,757)	(6,391)		(12,648)		(23,366)
Total net position	\$	(8,773)	\$	4,102	<u>\$</u>	6,440	\$	24,650	\$ (2,638)	\$	(14,638)	<u>\$</u>	9,143
For the year ended December 31, 2021													
Fare revenue	\$	142	\$	263	\$	296	\$	2,347	\$ -	\$	-	\$	3,048
Vehicle toll revenue		-		-		-		-	2,170		-		2,170
Rents, freight and other revenue		53		20		29		468	24		(37)		557
Total operating revenue		195	_	283	_	325	_	2,815	2,194	_	(37)		5,775
Total labor expenses		1,239		1,069		1,245		6,545	235		-		10,333
Total non-labor expenses		592		354		354		1,861	215		(37)		3,339
Depreciation		84		316		459		2,098	201		-		3,158
Total operating expenses		1,915		1,739		2,058		10,504	651		(37)		16,830
Operating (deficit) surplus	_	(1,720)	_	(1,456)		(1,733)	_	(7,689)	1,543	_			(11,055)
Subsidies and grants		1,070		292		-		585	9		(447)		1,509
Tax revenue		6,266		-		-		3,796	739		(3,787)		7,014
Interagency subsidy		1,037		590		2,322		457	-		(4,406)		-
Interest expense		(1,461)		-		-		(18)	(355)		21		(1,813)
Other		(2,736)		363		621		3,202	2		3,264		4,716
Total non-operating revenues (expenses)	_	4,176	_	1,245	_	2,943	_	8,022	395	_	(5,355)		11,426
Loss before appropriations		2,456		(211)		1,210		333	1,938		(5,355)		371
Appropriations, grants and other receipts externally		-											
restricted for capital projects	_	(940)		545			_	2,493	(2,133)		3,824		3,789
Change in net position		1,516		334		1,210		2,826	(195)		(1,531)		4,160
Net position, beginning of year	_	(10,289)		3,768		5,230	_	21,824	(2,443)	_	(13,107)		4,983
Net position, end of year	\$	(8,773)	\$	4,102	\$	6,440	\$	24,650	\$ (2,638)	\$	(14,638)	\$	9,143
For the year ended December 31, 2021													
Net cash (used by) / provided by operating activities	\$	(1,647)	\$	(1,077)	\$	(1,249)	\$	(6,015)	\$ 1,784	\$	200	\$	(8,004)
Net cash provided by / (used by) non-capital													
financing activities		7,092		1,130		1,240		6,633	1,529		(8,203)		9,421
Net cash (used by) / provided by capital and related													
financing activities		(2,798)		(59)		9		(1,043)	(561)		6,234		1,782
Net cash (used by) / provided by investing activities		(2,603)		-		-		433	(3,042)		1,769		(3,443)
Cash at beginning of year	_	471	_	23	_	5	_		507	_			1,026
Cash at end of year	<u>\$</u>	515	\$	17	\$	5	\$	28	<u>\$ 217</u>	\$		\$	782



			Metro- North		Long Island	City	v York Transit	Triborough Bridge and Tunnel			Cor	ısolidated
December 31, 2020	_	MTA	Railroad		Railroad		hority	Authority		Eliminations		Total
Current assets	\$	9,615		42 5		\$	522			(39)	\$	11,629
Capital assets		12,839	5,82	28	8,844		46,134	7,250		-		80,895
Other Assets		14,346		-	-		1	4		(13,081)		1,270
Intercompany receivables		1,828		91	253		642	791		(3,705)		-
Deferred outflows of resources		1,878	59	91	692		2,690	565		(215)		6,201
Total assets and deferred outflows of resources	<u>\$</u>	40,506	\$ 6,85	52 5	\$ 10,025	\$	49,989	\$ 9,663	\$	(17,040)	<u>\$</u>	99,995
Current liabilities	\$	3,681	\$ 3'	77 5	\$ 331	\$	2,013	\$ 840	\$	(58)	\$	7,184
Non-current liabilities		44,846	2,30	51	3,883		23,713	10,651		(191)		85,263
Intercompany payables		1,902	14	42	119		1,026	495		(3,684)		-
Deferred inflows of resources		366	20	)4	462		1,413	120		-		2,565
Total liabilities and deferred inflows of resources	\$	50,795	\$ 3,08	84 5	\$ 4,795	\$	28,165	\$ 12,106	\$	(3,933)	\$	95,012
Net investment in capital assets	\$	(29,660)	\$ 5,8	14 5	\$ 8,817	\$	45,884	\$ 2,466	\$	(437)	\$	32,884
Restricted		1,795		-	-		-	589	)	(433)		1,951
Unrestricted		17,576	(2,04	46)	(3,587)		(24,060)	(5,498	3) _	(12,237)		(29,852)
Total net position	\$	(10,289)	\$ 3,70	68	\$ 5,230	\$	21,824	\$ (2,443	<u>\$</u>	(13,107)	\$	4,983
For the year ended December 31, 2020												
Fare revenue	\$	98	\$ 24	43 \$	\$ 272	\$	2,012	\$ -	\$	-	\$	2,625
Vehicle toll revenue		_		-	-		-	1,640	)	-		1,640
Rents, freight and other revenue		52		31	34		365	21		(40)		463
Total operating revenue		150	2'	74	306		2,377	1,661		(40)		4,728
Total labor expenses		1,231	99	97	1,230		7,265	254	ļ	_		10,977
Total non-labor expenses		436	33	34	348		1,750	202		(40)		3,030
Depreciation		78		59	414		2,070	180		-		3,011
Total operating expenses	_	1,745	1,60	00	1,992		11,085	636		(40)		17,018
Operating (deficit) surplus	_	(1,595)	(1,32	26)	(1,686)		(8,708)	1,025	<u>.                                    </u>			(12,290)
Subsidies and grants		820	2:	56	_		507	9	)	(350)		1,242
Tax revenue		4,616		-	-		2,055	440	)	(1,718)		5,393
Interagency subsidy		451	49	98	1,991		176	-		(3,116)		_
Interest expense		(1,389)		-	_		(18)	(335	(i)	20		(1,722)
Other		(572)	3	18	508		2,840	3		1,230		4,327
Total non-operating revenues (expenses)		3,926	1,0	72	2,499		5,560	117		(3,934)		9,240
Loss before appropriations		2,331	(2:	54)	813		(3,148)	1,142	!	(3,934)		(3,050)
Appropriations, grants and other receipts externally		(2(0)	-	(2			998	(460		2.750		2.502
restricted for capital projects		(268)		52 -	012			(469	<u> </u>	2,759		3,582
Change in net position  Net position, beginning of the year		2,063 (12,352)		08 50	813 4,417		(2,150) 23,974	673 (3,116		(1,175) (11,932)		532 4,451
Net position, end of year	- \$	(10,289)				\$	21,824				\$	4,983
• •	=	( 1) 11)							<u> </u>	(1) 11)	<u> </u>	,, ,,
For the year ended December 31, 2020  Net cash (used in) / provided by operating activities	\$	(1,114)	\$ (1,0	50) 9	\$ (1,217)	\$	(5,419)	\$ 1,244	•	335	•	(7,221)
Net cash provided by / (used in) non-capital	J	(1,114)	\$ (1,0.	30) 3	b (1,21/)	Ф	(3,419)	ъ 1,2 <del>4</del> 4	· "p	333	Þ	(7,221)
financing activities		8,795	1,13	30	1,227		6,484	(499	)	(6,427)		10,710
Net cash (used in) / provided by capital and related financing activities		(861)	(9	94)	(12)		(1,064)	(330	))	3,016		655
Net cash provided by / (used in) investing activities		(6,661)		-	-		(30)			3,076		(3,672)
Cash at beginning of year		312		37	7		49	149		-		554
Cash at end of year	\$	471		23		<u>s</u>	20		<u> </u>		\$	1,026
	-	1/1		= 1		-			= =		_	1,020



## 17. SUBSEQUENT EVENTS

On January 19, 2022, MTA effectuated a mandatory tender and remarketed \$96.335 of Triborough Bridge and Tunnel Authority General Revenue Variable Rate Bonds, Subseries 2003B-1 because its irrevocable direct-pay Letter of Credit (LOC) issued by Bank of America, N.A. was expiring by its terms and was substituted with an irrevocable direct-pay LOC issued by U.S. Bank, N.A. The new LOC will expire on January 17, 2025. U.S. Bancorp will serve as remarketing agent.

On January 20, 2022, the State Senate confirmed the appointments of Janno Lieber as MTA Board Chair and Chief Executive Officer ("CEO") and Elizabeth Velez to the Board. On January 20, 2022, MTA Board Chair and CEO Janno N. Lieber named Kevin Willens as MTA Chief Financial Officer, replacing Robert Foran who retired effective December 31, 2021.

On January 25, 2022, MTA executed a 2,826,779 gallon ultra-low sulfur diesel fuel hedge with Goldman Sachs & Co./J Aron at an all-in price of \$2.362 (whole dollars) per gallon. The hedge covers the period from January 2023 through December 2023.

On February 1, 2022, MTA effectuated a mandatory tender and remarketed \$32.475 of Transportation Revenue Variable Rate Refunding Bonds, Subseries 2002G-1h and \$50.000 Transportation Revenue Variable Rate Bonds, Subseries 2012A-3 because their respective current interest rate periods were expiring by their terms. The Subseries 2002G-1h and Subseries 2012A-3 bonds were remarketed in Term Rate Mode as Secured Overnight Financing Rate (SOFR) Notes as follows:

Quantity	Subseries	Purchase Date	Maturity Date	Interest Rate
\$13.725	2002G-1h	N/A	November 1, 2023	67% of SOPR plus 0.40%
\$18.750	2002G-1h	N/A	November 1, 2026	67% of SOPR plus 0.60%
\$50.000	2012A-3	April 1, 2026	November 15, 2042	67% of SOPR plus 0.65%

On February 10, 2022, MTA issued \$592.680 of Triborough Bridge and Tunnel Authority Payroll Mobility Tax Senior Lien Bonds, Series 2022A. Proceeds from the transaction were used to retire \$750.000 Dedicated Tax Fund Bond Anticipation Notes, Series 2019A. The Series 2022A bonds were issued as fixed rate tax-exempt bonds with a final maturity of May 15, 2057.

On February 28, 2022, MTA executed a 2,826,759 gallon ultra-low sulfur diesel fuel hedge at an all-in price of \$2.5015 (whole dollars) per gallon. The hedge covers the period from February 2023 through January 2024.

On March 1, 2022, MTA issued \$378 MTA Dedicated Tax Fund Bonds, Series 2022A ("the Series 2022A Bonds") with maturity dates every November 15th, from year 2032 through 2052. The Series 2022A Bonds were issued to (i) retire the MTA's outstanding Transportation Revenue Bond Anticipation Notes, Series 2020B and (ii) pay certain financing, legal and miscellaneous expenses.

On March 24, 2022, MTA effectuated a mandatory tender and remarketed \$82.660 Transportation Revenue Variable Rate Refunding Bonds, Subseries 2020B-2 ("the Subseries 2020B-2 Bonds"). The Subseries 2020B-2 Bonds were converted from the Term Rate Mode to the Weekly Mode. MTA obtained an irrevocable direct-pay letter of credit to support the payment of principal and of interest.

On March 31, 2022, MTA executed a 2,826,761 gallon ultra-low sulfur diesel fuel hedge at an all-in price of \$2.7469 (whole dollars) per gallon. The hedge covers the period from March 2023 through February 2024.

On the morning of April 12, 2022, a gunman wearing a gas mask threw two smoke grenades onto the train and opened fire on the Manhattan bound N train as the train traveled between the 59th street and 36th street stations in Brooklyn. Police reported that the gunman was able to fire off 33 shots, striking 10 people. In addition, at least 19 other people were injured as a result of this incident. The ultimate extent of this incident on the MTA's financial position cannot be reasonably estimated at this time.

On April 28, 2022, MTA executed a 2,826,752 gallon ultra-low sulfur diesel fuel hedge at an all-in price of \$2.8675 (whole dollars) per gallon. The hedge covers the period from April 2023 through March 2024.

On May 12, 2022, MTA issued \$927.950 Triborough Bridge and Tunnel Authority Payroll Mobility Tax Senior Lien Bonds, Series 2022C. Proceeds from the transaction were used to (i) retire the outstanding MTA Transportation Revenue Bond Anticipation Notes, Subseries B-1, and (ii) pay certain financing, legal, and miscellaneous expenses.

On May 22, 2022, a 48-year old man was fatally shot in the chest aboard a New York City subway train as it approached Canal Street station in Manhattan. The ultimate extent of this incident on the MTA's financial position cannot be reasonably estimated at this time.

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Schedule of Changes in the MTA's Net Pension Liability and Related Ratios for Single Employer Pension Plans

## (\$ in thousands)

							Ad	lditional Plan					
Plan Measurement Date (December 31):		2020		2019		2018		2017		2016		2015	2014
Total pension liability:													
Service cost	\$	453	\$	621	\$	1,057	\$	1,874	\$	2,752	\$	3,441	\$ 3,813
Interest		86,918		93,413		97,611		101,477		104,093		106,987	110,036
Effect of economic / demographic (gains) or losses		10,428		13,455		213		1,890		15,801		6,735	-
Effect of assumption changes or inputs		-		50,191		-		-		-		-	-
Benefit payments and withdrawals		(152,046)		(157,254)		(159,565)		(159,717)		(158,593)		(157,071)	(156,974)
Net change in total pension liability		(54,247)		426		(60,684)		(54,476)		(35,947)		(39,908)	(43,125)
Total pension liability—beginning		1,411,570		1,411,144		1,471,828		1,526,304		1,562,251		1,602,159	1,645,284
Total pension liability—ending (a)		1,357,323		1,411,570		1,411,144		1,471,828		1,526,304		1,562,251	1,602,159
Plan fiduciary net position:													
Employer contributions		68,724		62,774		59,500		76,523		81,100		100,000	407,513
Nonemployer contributions		-		-		-		145,000		70,000		-	-
Member contributions		140		249		333		760		884		1,108	1,304
Net investment income		4,024		116,092		(31,098)		112,614		58,239		527	21,231
Benefit payments and withdrawals		(152,046)		(157,254)		(159,565)		(159,717)		(158,593)		(157,071)	(156,974)
Administrative expenses		(612)		(718)		(1,180)		(1,070)		(611)		(1,218)	(975)
Net change in plan fiduciary net position		(79,770)		21,143		(132,010)		174,110		51,019		(56,654)	272,099
Plan fiduciary net position—beginning		840,460		819,317		951,327		777,217		726,198		782,852	510,753
Plan fiduciary net position—ending (b)		760,690		840,460		819,317		951,327		777,217		726,198	782,852
Employer's net pension liability—ending (a)-(b)	\$	596,633	\$	571,110	\$	591,827	\$	520,501	\$	749,087	\$	836,053	\$ 819,307
Plan fiduciary net position as a percentage of													
the total pension liability		56.04%		59.54%	_	58.06%	_	64.64%	_	50.92%	_	46.48%	 48.86%
Covered payroll	\$	5,174	\$	7,236	\$	13,076	\$	20,500	\$	29,312	\$	39,697	\$ 43,267
Employer's net pension liability as a percentage													
of covered payroll	_	11531.37%	_	7892.62%	_	4526.06%	_	2539.03%	_	2555.56%	_	2106.09%	 1893.61%



Schedule of Changes in the MTA's Net Pension Liability and Related Ratios for Single Employer Pension Plans

(continued)

(\$ in thousands)							M	IaBSTOA Plan					
Plan Measurement Date (December 31):		2020		2019		2018	141	2017		2016		2015	2014
Total pension liability:													
Service cost	\$	95,514	\$	89,814	\$	86,979	\$	84,394	\$	82,075	\$	77,045	\$ 72,091
Interest		266,588		265,454		256,084		246,284		236,722		232,405	223,887
Effect of economic / demographic (gains) or losses		(720)		9,011		5,412		11,826		13,784		(68,997)	_
Effect of assumption changes or inputs				168,752		-		6,347		_		_	_
Differences between expected and actual experience				-		-		-		-		-	(1,596)
Benefit payments and withdrawals		(237,930)		(221,221)		(213,827)		(209,122)		(187,823)		(179,928)	(175,447)
Net change in total pension liability		123,452		311,810		134,648	_	139,729		144,758		60,525	118,935
Total pension liability—beginning		4,122,934		3,811,124		3,676,476		3,536,747		3,391,989		3,331,464	3,212,529
Total pension liability—ending (a)		4,246,386		4,122,934		3,811,124		3,676,476		3,536,747		3,391,989	 3,331,464
Plan fiduciary net position:													
Employer contributions		159,486		206,390		205,433		202,684		220,697		214,881	226,374
Member contributions		24,709		23,552		21,955		19,713		18,472		16,321	15,460
Net investment income		60,326		447,365		(87,952)		350,186		212,260		(24,163)	105,084
Benefit payments and withdrawals		(237,930)		(221,221)		(213,827)		(209,122)		(187,823)		(179,928)	(175,447)
Administrative expenses		(244)		(220)		(196)		(208)		(186)		(88)	(74)
Net change in plan fiduciary net position		6,347		455,866	-	(74,587)		363,253		263,420	-	27,023	171,397
Plan fiduciary net position—beginning		3,300,268		2,844,402		2,918,989		2,555,736		2,292,316		2,265,293	2,093,896
Plan fiduciary net position—ending (b)		3,306,616		3,300,268		2,844,402		2,918,989		2,555,736		2,292,316	2,265,293
Employer's net pension liability—ending (a)-(b)	\$	939,770	\$	822,666	\$	966,722	\$	757,487	\$	981,011	\$	1,099,673	\$ 1,066,171
Plan fiduciary net position as a percentage of													
the total pension liability		77.87%		80.05%		74.63%	_	79.40%		72.26%		67.58%	68.00%
Covered payroll	\$	802,100	\$	786,600	\$	776,200	\$	749,666	\$	716,527	\$	686,674	\$ 653,287
Employer's net pension liability as a percentage of covered payroll	_	117.16%	_	104.59%	_	124.55%	_	101.04%	_	136.91%	_	160.14%	 163.20%



Schedule of Changes in the MTA's Net Pension Liability and Related Ratios for Single Employer Pension Plans

(continued)

(\$ in thousands)					Mì	NR (	Cash Balance P	lan					
Plan Measurement Date (December 31):	2020		2019		2018		2017		2016		2015		2014
Total pension liability:													
Interest	\$ 14	\$	18	\$	20	\$	21	\$	24	\$	29	\$	32
Effect of economic / demographic (gains) or losses	10		4		(11)		12		(15)		(10)		-
Effect of assumption changes or inputs	11		-		-		-		-		18		-
Benefit payments and withdrawals	(105)		(53)		(58)		(71)		(77)		(113)		(88)
Net change in total pension liability	 (70)		(31)		(49)		(38)		(68)		(76)		(56)
Total pension liability—beginning	448		479		528		566		634		710		766
Total pension liability—ending (a)	 378		448		479		528		566		634		710
Plan fiduciary net position:													
Employer contributions	9		-		5		-		23		18		-
Net investment income	32		40		1		20		16		6		41
Benefit payments and withdrawals	(105)		(53)		(58)		(71)		(77)		(113)		(88)
Administrative expenses	3		(3)		_		-		-		3		(3)
Net change in plan fiduciary net position	 (61)		(16)		(52)		(51)		(38)		(86)		(50)
Plan fiduciary net position—beginning	455		471		523		574		612		698		748
Plan fiduciary net position—ending (b)	 394		455		471		523		574		612		698
Employer's net pension liability—ending (a)-(b)	\$ (16)	\$	(7)	\$	8	\$	5	\$	(8)	\$	22	\$	12
Plan fiduciary net position as a percentage of													
the total pension liability	 104.23%	_	101.45%	_	98.33%	_	99.05%	_	101.41%	_	96.53%	_	98.36%
Covered payroll	\$ 277	\$	278	\$	268	\$	471	\$	846	\$	1,474	\$	2,274
Employer's net pension liability as a percentage													
of covered payroll	 -5.78%		-2.52%		2.99%	_	1.06%	_	-0.95%		1.49%	_	0.53%



# Schedule of Changes in the MTA's Net Pension Liability and Related Ratios for Single Employer Pension Plans

(continued)

(\$ in thousands)														
						MT	ΓA De	efined Benefit F	lan					
Plan Measurement Date (December 31):		2020		2019		2018		2017		2016		2015		2014
Total pension liability:														
Service cost	\$	213,494	\$	173,095	\$	162,273	\$	148,051	\$	138,215	\$	124,354	\$	121,079
Interest		427,672		387,193		358,118		335,679		308,009		288,820		274,411
Effect of economic / demographic (gains) or losses		92,019		35,935		75,744		(27,059)		86,809		121,556		2,322
Effect of assumption changes or inputs				690,958		-		10,731		-		(76,180)		-
Effect of plan changes		-		-		61,890		76,511		73,521		6,230		-
Benefit payments and withdrawals		(293,836)		(264,985)		(242,349)		(232,976)		(209,623)		(199,572)		(191,057)
Net change in total pension liability		439,349		1,022,196		415,676		310,937		396,931		265,208		206,755
Total pension liability—beginning		6,510,686		5,488,490		5,072,814		4,761,877		4,364,946		4,099,738		3,892,983
Total pension liability—ending (a)		6,950,035		6,510,686		5,488,490	_	5,072,814		4,761,877		4,364,946		4,099,738
Plan fiduciary net position:														
Employer contributions		394,986		344,714		338,967		321,861		280,768		221,694		331,259
Member contributions		32,006		31,504		29,902		31,027		29,392		34,519		26,006
Net investment income		99,045		651,919		(150,422)		516,153		247,708		(45,122)		102,245
Benefit payments and withdrawals		(293,836)		(264,985)		(242,349)		(232,976)		(209,623)		(199,572)		(191,057)
Administrative expenses		(3,660)		(3,408)		(3,152)		(4,502)		(3,051)		(1,962)		(9,600)
Net change in plan fiduciary net position		228,541		759,744		(27,054)		631,563		345,194		9,557		258,853
Plan fiduciary net position—beginning		4,784,224		4,024,480		4,051,534		3,419,971		3,074,777		3,065,220		2,806,367
Plan fiduciary net position—ending (b)		5,012,765		4,784,224		4,024,480		4,051,534		3,419,971		3,074,777		3,065,220
Employer's net pension liability—ending (a)-(b)	\$	1,937,270	\$	1,726,462	\$	1,464,010	\$	1,021,280	\$	1,341,906	\$	1,290,169	\$	1,034,518
Plan fiduciary net position as a percentage of														
the total pension liability	_	72.13%	_	73.48%	_	73.33%	_	79.87%	_	71.82%	_	70.44%	_	74.77%
Covered payroll	\$	2,050,970	\$	2,052,657	\$	2,030,695	\$	1,857,026	\$	1,784,369	\$	1,773,274	\$	1,679,558
Employer's net pension liability as a percentage														
of covered payroll	_	94.46%	_	84.11%	_	72.09%	_	55.00%	_	75.20%	_	72.76%	_	61.59%



Schedule of the MTA's Proportionate Share of the Net Pension Liabilities of Cost-Sharing Multiple-Employer Pension Plans

# (\$ in thousands)

						N	CERS Plan						
Plan Measurement Date:	June 30, 2021	<u>J</u> ı	une 30, 2020	Ju	ine 30, 2019	Ju	ine 30, 2018	Ju	ine 30, 2017	Ju	ane 30, 2016	Ju	ne 30, 2015
MTA's proportion of the net pension liability	22.218	%	24.420%		24.493%		23.682%		24.096%		23.493%		23.585%
MTA's proportionate share of the net pension liability	\$ 1,424,952	\$	5,147,445	\$	4,536,510	\$	4,176,941	\$	5,003,811	\$	5,708,052	\$	4,773,787
MTA's actual covered payroll	\$ 3,618,339	\$	3,514,665	\$	3,385,743	\$	3,216,837	\$	3,154,673	\$	3,064,007	\$	2,989,480
MTA's proportionate share of the net pension liability as													
a percentage of the MTA's covered payroll	39.000	%	146.456%		113.989%		129.846%		158.616%		186.294%		159.686%
Plan fiduciary net position as a percentage of													
the total pension liability	77.000	%	76.933%		78.836%		78.826%		74.805%		69.568%		73.125%
						NY	SLERS Plan						
	March 31,		March 31,		March 31,		March 31,		March 31,		March 31,	]	March 31,
Plan Measurement Date:	2021		2020	_	2019	_	2018	_	2017	_	2016	_	2015
MTA's proportion of the net pension liability	0.314	%	0.346%		0.345%		0.327%		0.311%		0.303%		0.289%
MTA's proportionate share of the net pension liability	\$ 313	\$	91,524	\$	24,472	\$	10,553	\$	29,239	\$	48,557	\$	9,768
MTA's actual covered payroll	\$ 102,838	\$	105,457	\$	109,252	\$	105,269	\$	96,583	\$	87,670	\$	87,315
MTA's proportionate share of the net pension liability as		. ,	0.5.										
a percentage of the MTA's covered payroll	0.000	%	86.788%		22.400%		10.025%		30.273%		55.386%		11.187%
Plan fiduciary net position as a percentage of the total pension liability	99.950	%	86.392%		96.267%		98.240%		94.703%		90.685%		97.947%

Note: Information was not readily available for periods prior to 2015. This schedule is intended to show information for ten years. Additional years will be displayed as they become available. The data provided in this schedule is based on the measurement date used by NYCERS and NYSLERS for the net pension liability.



Schedule of the MTA's Contributions for All Pension Plans for the Year Ended December 31,

(\$ in thousands)															
	2	021		2020	 2019	_	2018	 2017		2016	 2015		2014	 2013	 2012
Additional Plan*															
Actuarially Determined Contribution	\$	70,553	\$	68,723	\$ 62,774	\$	59,196	\$ 76,523	\$	83,183	\$ 82,382	\$	112,513	\$ -	\$ -
Actual Employer Contribution		70,553		68,724	62,774		59,500	 221,523		151,100	100,000		407,513	-	 -
Contribution Deficiency (Excess)	\$	-	\$	(1)	\$ 	\$	(304)	\$ (145,000)	\$	(67,917)	\$ (17,618)	\$	(295,000)	\$ 	\$ -
Covered Payroll	\$	3,230	\$	5,174	\$ 7,236	\$	13,076	\$ 20,500	\$	29,312	\$ 39,697	\$	43,267	\$ -	\$ -
Contributions as a % of Covered Payroll		2184.33%		1328.26%	867.54%		455.02%	1080.62%		515.49%	251.91%		941.87%	N/A	N/A
MaBSTOA Plan															
Actuarially Determined Contribution	\$ 1	56,204	\$	159,486	\$ 209,314	\$	202,509	\$ 202,924	\$	220,697	\$ 214,881	\$	226,374	\$ 234,474	\$ 228,918
Actual Employer Contribution	1	56,204		159,486	206,390		205,434	202,684		220,697	214,881		226,374	234,474	228,918
Contribution Deficiency (Excess)	\$	-	\$	-	\$ 2,924	\$	(2,925)	\$ 240	\$	-	\$ -	\$	-	\$ -	\$ -
Covered Payroll	\$ 7	768,868	\$	802,100	\$ 786,600	\$	776,200	\$ 749,666	\$	716,527	\$ 686,674	\$	653,287	\$ 582,081	\$ 575,989
Contributions as a % of Covered Payroll		20.32%		19.88%	26.24%		26.47%	27.04%		30.80%	31.29%		34.65%	40.28%	39.74%
Metro-North Cash Balance Plan*															
Actuarially Determined Contribution	\$	-	\$	-	\$ 8	\$	5	\$ -	\$	23	\$ -	\$	5	\$ -	\$ -
Actual Employer Contribution		-		-	-		5	-		23	14		-	-	-
Contribution Deficiency (Excess)	\$	-	\$	-	\$ 	\$	-	\$ -	\$	-	\$ (14)	\$	5	\$ -	\$ -
Covered Payroll	\$	-	\$	277	\$ 278	\$	268	\$ 471	\$	846	\$ 1,474	\$	2,274	\$ -	\$ -
Contributions as a % of Covered Payroll		0.00%		0.00%	0.00%		1.87%	0.00%		2.68%	0.96%		0.00%	N/A	N/A
MTA Defined Benefit Plan*															
Actuarially Determined Contribution	\$ 3	392,547	\$	392,921	\$ 349,928	\$	331,566	\$ 316,916	\$	290,415	\$ 273,700	\$	271,523	\$ -	\$ -
Actual Employer Contribution	3	396,144		393,961	343,862		339,800	321,861		280,767	221,694		331,259	-	-
Contribution Deficiency (Excess)	\$	(3,597)	\$	(1,040)	\$ 6,066	\$	(8,234)	\$ (4,945)	\$	9,648	\$ 52,006	\$	(59,736)	\$ -	\$ -
Covered Payroll	\$ 2,0	028,938	\$ 2	,050,970	\$ 2,052,657	\$ 2	2,030,695	\$ 1,857,026	\$ 1	1,784,369	\$ 1,773,274	\$ 1	1,679,558	\$ -	\$ -
Contributions as a % of Covered Payroll		19.52%		19.21%	16.75%		16.73%	17.33%		15.73%	12.50%		19.72%	N/A	N/A

<sup>\*</sup> For the MTA Defined Benefit Plan, Additional Plan and Metro-North Cash Balance Plan, information was not readily available for periods prior to 2014. This schedule is intended to show information for ten years. Additional years will be displayed as they become available.



Schedule of the MTA's Contributions for All Pension Plans for the Year Ended December 31,

(continued)

(\$ in thousands)														
	 2021	 2020	_	2019	_	2018	_	2017	 2016	 2015	2014	_	2013	 2012
NYCERS														
Actuarially Determined Contribution	\$ 842,269	\$ 882,690	\$	952,616	\$	807,097	\$	800,863	\$ 797,845	\$ 736,212	\$ 741,223	\$	736,361	\$ 731,983
Actual Employer Contribution	842,269	882,690		952,616		807,097		800,863	797,845	736,212	741,223		736,361	731,983
Contribution Deficiency (Excess)	\$ -	\$ -	\$	-	\$	-	\$		\$ 	\$ -	\$ -	\$	-	\$ 
Covered Payroll	\$ 3,637,544	\$ 3,771,595	\$	3,948,283	\$	3,974,494	\$	3,768,885	\$ 3,523,993	\$ 3,494,907	\$ 3,617,087	\$	2,943,195	\$ 2,925,834
Contributions as a % of Covered Payroll	23.15%	23.40%		24.13%		20.31%		21.25%	22.64%	21.07%	20.49%		25.02%	25.02%
NYSLERS **														
Actuarially Determined Contribution	\$ 16,284	\$ 14,533	\$	14,851	\$	14,501	\$	13,969	\$ 12,980	\$ 15,792	\$ 13,816	\$	-	\$ -
Actual Employer Contribution	 16,284	14,533		14,851		14,501		13,969	12,980	15,792	13,816			 
Contribution Deficiency (Excess)	\$ -	\$ 	\$		\$	-	\$		\$ 	\$ 	\$ 	\$		\$ -
Covered Payroll Contributions as a % of	\$ 99,129	\$ 102,838	\$	106,913	\$	109,210	\$	103,787	\$ 94,801	\$ 86,322	\$ 84,041	\$	-	\$ 
Covered Payroll	16.43%	14.13%		13.89%		13.28%		13.46%	13.69%	18.29%	16.44%		N/A	N/A

<sup>\*\*</sup> For the NYSLERS plan, information was not readily available for periods prior to 2014. This schedule is intended to show information for ten years. Additional years will be displayed as they become available.



		Additio	onal Plan	
Valuation Dates:	January 1, 2020	January 1, 2019	January 1, 2018	January 1, 2017
Measurement Date:	December 31, 2020	December 31, 2019	December 31, 2018	December 31, 2017
Actuarial cost method:	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost
Amortization method:	Period specified in current valuation report (closed 13 year period beginning January 1, 2020) with level dollar payments.	Period specified in current valuation report (closed 14 year period beginning January 1, 2019) with level dollar payments.	Period specified in current valuation report (closed 15 year period beginning January 1, 2018) with level dollar payments.	Period specified in current valuation report (closed 16 year period beginning January 1, 2017) with level dollar payments.
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.
Salary increases:	3.00%	3.00%	3.00%	3.00%
Actuarial assumptions:				
Discount Rate:	6.50%	6.50%	7.00%	7.00%
Investment rate of return:	6.50%, net of investment expenses.	6.50%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A
Inflation/Railroad Retirement Wage Base:	2.25%; 3.25%	2.25%; 3.25%	2.50%; 3.50%	2.50%; 3.50%
Cost-of-Living Adjustments:	N/A	N/A	N/A	N/A



		Additional Plan (continued)	
Valuation Dates:	January 1, 2016	January 1, 2015	January 1, 2014
Measurement Date:	December 31, 2016	December 31, 2015	December 31, 2014
Actuarial cost method:	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost
Amortization method:	Period specified in current valuation report (closed 17 year period beginning January 1, 2016) with level dollar payments.	Period specified in current valuation report (closed 18 year period beginning January 1, 2015) with level dollar payments.	Period specified in current valuation report (closed 19 year period beginning January 1, 2014) with level dollar payments.
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.
Salary increases:	3.00%	3.00%	3.00%
Actuarial assumptions:			
Discount Rate:	7.00%	7.00%	7.00%
Investment rate of return :	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. As generational tables, they reflect mortality improvements both before and after the measurement date. Mortality assumption is based on a 2012 experience study for all MTA plans.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	N/A	N/A	N/A
Inflation/Railroad Retirement Wage Base:	2.50%; 3.50%	2.50%; 3.50%	2.50%; 3.50%
Cost-of-Living Adjustments:	N/A		



		MaBST	TOA Plan	
Valuation Dates:	January 1, 2020	January 1, 2019	January 1, 2018	January 1, 2017
Measurement Date:	December 31, 2020	December 31, 2019	December 31, 2018	December 31, 2017
Actuarial cost method:	Frozen Initial Liability (FIL)			
Amortization method:	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/ losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/ losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/ losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/ losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/ losses over a 5-year period. Gains/losses are based on market value of assets.
Salary increases:	Reflecting general wage, merit and promotion increases for operating employees and non- operating members. Varies by years of employment.	Reflecting general wage, merit, and promotion increases of 3.5% for operating employees and 4.0% for non-operating employees per year. Large increases are assumed in the first 5 years of a member's career.	Varies by years of employment and employment type.	Varies by years of employment and employment type.
Actuarial assumptions: Discount Rate:	6.50%	6.50%	7.00%	7.00%
Investment rate of return:	6.50%, net of investment expenses.	6.50%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	RP-2014 Disabled Annuitant mortality table for males and females.	RP-2014 Disabled Annuitant mortality table for males and females.	RP-2014 Disabled Annuitant mortality table for males and females.	RP-2014 Disabled Annuitant mortality table for males and females.
Inflation/Railroad Retirement Wage Base:	2.25%	2.25%	2.50%	2.50%
wage base.				210070



		MaBSTOA Plan (continued)	
Valuation Dates:	January 1, 2016	January 1, 2015	January 1, 2014
Measurement Date:	December 31, 2016	December 31, 2015	December 31, 2014
Actuarial cost method:	Frozen Initial Liability (FIL)	Frozen Initial Liability (FIL)	Frozen Initial Liability (FIL)
Amortization method:	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.	For FIL bases, period specified in current valuation 30-year level dollar. Future gains/losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population.
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized Market value restart as of 1/1/96, then gains/losses over a 5-year period. Gains/losses are five-year moving average of market values based on market value of assets.
Salary increases:	Varies by years of employment and employment type.	Varies by years of employment and employment type.	In general, merit and promotion increases plus assumed general wage increases of 3.5% to 15.0% for operating employees and 4.0% to 7.0% for nonoperating employees per year, depending on years of service.
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%
Investment rate of return :	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA.	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA. As generational tables, they reflect mortality improvements both before and after the measurement date. Mortality assumption is based on a 2012 experience study for all MTA plans.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females.	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females.	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females.
Inflation/Railroad Retirement Wage			
Base:	2.50%	2.50%	2.50%
Cost-of-Living Adjustments:	1.375% per annum	1.375% per annum	1.375% per annum



	MNR Cash Balance Plan								
Valuation Dates:	January 1, 2020	January 1, 2019	January 1, 2019	January 1, 2018					
Measurement Date:	December 31, 2020	December 31, 2019	December 31, 2018	December 31, 2017					
Actuarial cost method:	Unit Credit Cost	Unit Credit Cost	Unit Credit Cost	Unit Credit Cost					
Amortization method:	One-year amortization of the unfunded liability, if any.	One-year amortization of the unfunded liability, if any.	One-year amortization of the unfunded liability, if any.	One-year amortization of the unfunded liability, if any.					
Asset Valuation Method:	Actuarial value equals market value.								
Salary increases:	N/A	N/A	N/A	N/A					
Actuarial assumptions: Discount Rate:	3.00%	3.50%	4.00%	4.00%					
Investment rate of return:	3.00%, net of investment expenses.	3.50%, net of investment expenses.	4.00%, net of investment expenses.	4.00%, net of investment expenses.					
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on an experience study for all MTA plans.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on an experience study for all MTA plans.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on a 2017 experience study for all MTA plans.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on a 2017 experience study for all MTA plans.					
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.					
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP- 2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.					
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A					
Inflation/Railroad Retirement Wage Base:	2.25%	2.25%	2.50%	2.50%					
Cost-of-Living Adjustments:	N/A	N/A	N/A	N/A					



MNR Cash Balance Plan (continued)									
Valuation Dates:	January 1, 2017	January 1, 2016	January 1, 2014						
Measurement Date:	December 31, 2016	December 31, 2015	December 31, 2014						
Actuarial cost method:	Unit Credit Cost	Unit Credit Cost	Unit Credit Cost						
Amortization method:	One-year amortization of the unfunded liability, if any.	One-year amortization of the unfunded liability, if any.	Period specified in current valuation report (closed 10 year period beginning January 1, 2008 - 4 year period for the January 1, 2014 valuation).						
Asset Valuation Method:	Actuarial value equals market value.	Actuarial value equals market value.	Effective January 1, 2015, the Actuarially Determined Contribution (ADC) will reflect one-year amortization of the unfunded accrued liability in accordance with the funding policy adopted by the MTA.						
Salary increases:	N/A	N/A	There were no projected salary increase assumptions used in the January 1, 2014 valuation as the participants of the Plan were covered under the Management Plan effective January 1, 1989. For participants of the Plan eligible for additional benefits, these benefits were not valued as the potential liability is de minimus.						
Actuarial assumptions: Discount Rate:	4.00%	4.00%	4.50%						
Investment rate of return :	4.00%, net of investment expenses.	4.00%, net of investment expenses.	4.50%, net of investment expenses.						
Mortality:	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on a 2012 experience study for all MTA plans.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. Mortality assumption is based on a 2012 experience study for all MTA plans.	Based on experience of all MTA members reflecting mortality improvement on a generational basis using scale AA. As generational tables, they reflect mortality improvements both before and after the measurement date. Mortality assumption is based on a 2012 experience study for all MTA plans.						
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.						
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.						
Post-retirement Disabled Lives:	N/A	N/A	N/A						
Inflation/Railroad Retirement Wage Base:	2.30%	2.30%	2.50%						
Cost-of-Living Adjustments:	N/A	N/A	N/A						



		MTA Defined Benefit Plan	
Valuation Dates:	January 1, 2020	January 1, 2019	January 1, 2018
Measurement Date:	December 31, 2020	December 31, 2019	December 31, 2018
Actuarial cost method:	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost
Amortization method:	For Frozen Initial Liability ("FIL") bases, 18 years for Fresh start base as of Jan 1, 2020 and period specified in current valuation report for specific plan change bases. Future gains/ losses are amortized through the calculation of the normal cost in accordance with the FIL cost method amortized based on expected working lifetime, weighted by salary or service, of the projected population for each group and further weighted by total present value of benefits for each group.	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.
Salary increases:	Varies by years of employment, and employee group. 2.75% general wage increases for TWU Local 100 MTA Bus hourly employees.	Varies by years of employment, and employee group. 2.75% general wage increases for TWU Local 100 MTA Bus hourly employees.	Varies by years of employment, and employee group. 3.5% for MTA Bus hourly employees.
Actuarial assumptions: Discount Rate:	6.50%	6.50%	7.00%
Investment rate of return :	6.50%	6.50%	7.00%
Mortality:	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA.  As a general table, it reflects mortality improvements both before and after the measurement date.	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	RP-2014 Disabled Annuitant mortality table for males and females	RP-2014 Disabled Annuitant mortality table for males and females	RP-2014 Disabled Annuitant mortality table for males and females
Inflation/Railroad Retirement Wage Base:	2.25%; 3.25%	2.25%; 3.25%	2.50%; 3.50%
Cost-of-Living Adjustments:	60% of inflation assumption or 1.35%, if applicable.	60% of inflation assumption or 1.35%, if applicable.	55% of inflation assumption or 1.375%, if applicable.



		MTA Defined Benefit Plan (continued)	
Valuation Dates:	January 1, 2017	January 1, 2016	January 1, 2015
Measurement Date:	December 31, 2017	December 31, 2016	December 31, 2015
Actuarial cost method:	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost
Amortization method:	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.	For Frozen Initial Liability ("FIL") bases, period specified in current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted by salary, of the projected population for each group.
Asset Valuation Method:	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.	Actuarial value equals market value less unrecognized gains/losses over a 5-year period. Gains/losses are based on market value of assets.
Salary increases:	Varies by years of employment, and employee group. 3.5% for MTA Bus hourly employees.	Varies by years of employment, and employee group. 3.5% for MTA Bus hourly employees.	Varies by years of employment, and employee group. 3.5% for MTA Bus hourly employees.
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%
Investment rate of return :	7.00%	7.00%	7.00%
Mortality:	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.	Pre-retirement and post-retirement healthy annuitant rates are projected on a generational basis using Scale AA. As a general table, it reflects mortality improvements both before and after the measurement date.
Pre-retirement:	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.	RP-2000 Employee Mortality Table for Males and Females with blue collar adjustments.
Post-retirement Healthy Lives:	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP- 2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.	95% of the rates from the RP-2000 Healthy Annuitant mortality table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.
Post-retirement Disabled Lives:	RP-2014 Disabled Annuitant mortality table for males and females	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females. At age 85 and later for males and age 77 and later for females, the disability rates are set to the male and females healthy rates, respectively.	75% of the rates from the RP-2000 Healthy Annuitant mortality table for males and females. At age 85 and later for males and age 77 and later for females, the disability rates are set to the male and females healthy rates, respectively.
Inflation/Railroad Retirement Wage Base:	2.50%; 3.50%	2.50%; 3.50%	2.50%; 3.50%
Cost-of-Living Adjustments:	55% of inflation assumption or 1.375%, if applicable.	55% of inflation assumption or 1.375%, if applicable.	55% of inflation assumption or 1.375%, if applicable.



#### Notes to Schedule of the MTA's Contributions for All Pension Plans

MTA Defined Benefit Plan (continued)

Valuation Dates: January 1, 2014

Measurement Date: December 31, 2014

Actuarial cost method: Entry Age Normal Cost

Amortization method: For Frozen Initial Liability ("FIL") bases, period specified in

current valuation report. Future gains/ losses are amortized through the calculation of the normal cost in accordance with FIL cost method amortized based on expected working lifetime, weighted

by salary, of the projected population for each group.

Asset Valuation Method: Actuarial value equals market value less unrecognized gains/losses

over a 5-year period. Gains/losses are based on market value of

assets.

Salary increases: Varies by years of employment, and employee group.

Actuarial assumptions:

Discount Rate: 7.00%
Investment rate of return: 7.00%

Mortality: Pre-retirement and post-retirement healthy annuitant rates are

projected on a generational basis using Scale AA, as recommended by the Society of Actuaries Potingue and Plans Experience

by the Society of Actuaries Retirement Plans Experience Committee. Mortality assumption is based on a 2012 experience

study for all MTA plans.

Pre-retirement: RP-2000 Employee Mortality Table for Males and Females with

blue collar adjustments.

**Post-retirement Healthy Lives:** 95% of the rates from the RP-2000 Healthy Annuitant mortality

table for males with blue collar adjustments and 116% of the rates from the RP-2000 Healthy Annuitant mortality table for females.

**Post-retirement Disabled Lives:** 75% of the rates from the RP-2000 Healthy Annuitant mortality

table for males and females. At age 85 and later for males and age 77 and later for females, the disability rates are set to the male and

females healthy rates, respectively.

Inflation/Railroad Retirement Wage Base: 2.50%; 3.00%

Cost-of-Living Adjustments: 55% of inflation assumption or 1.375%, if applicable.



		NYCE		
Valuation Dates:	June 30, 2020	June 30, 2019	June 30, 2018	June 30, 2016
Measurement Date:	June 30, 2021	June 30, 2020	June 30, 2019	June 30, 2018
Actuarial cost method:	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost
Amortization method:	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.
Asset Valuation Method:	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.
Salary increases:	3% per annum.	3% per annum.	3% per annum.	3% per annum.
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%	7.00%
Investment rate of return:	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.
Mortality:	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was prepared by Bolton, Inc. dated June 2019 analyzed the four-year and ten-year periods ended June 30, 2017.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was prepared by Bolton, Inc. dated June 2019 analyzed the four-year and ten-year periods ended June 30, 2017.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 through 2013.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 through 2013.
Pre-retirement:	N/A	N/A	N/A	N/A
Post-retirement Healthy Lives:	N/A	N/A	N/A	N/A
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A
Inflation/Railroad Retirement Wage Base:	2.50%	2.50%	2.50%	2.50%
Cost-of-Living Adjustments:	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.



		NY	CERS Plan (continued)
Valuation Dates:	June 30, 2015	June 30, 2014	June 30, 2013
Measurement Date:	June 30, 2017	June 30, 2016	June 30, 2015
Actuarial cost method:	Entry Age Normal Cost	Entry Age Normal Cost	Entry Age Normal Cost
Amortization method:	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.	Increasing Dollar for Initial Unfunded; Level Dollar for Post 2010 Unfundeds.
Asset Valuation Method:	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.	Modified six-year moving average of market values with a Market Value Restart as of June 30, 2011.
Salary increases:	3% per annum.	3% per annum.	3% per annum.
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.00%
Investment rate of return:	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.
Mortality:	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 through 2013.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 through 2013.	Mortality tables for service and disability pensioners were developed from an experience study of NYCERS's pensioners. The mortality tables for beneficiaries were developed from an experience review of NYCERS' beneficiaries. The most recently completed study was published by Gabriel Roeder & Company ("GRS"), dated October 2015, and analyzed experience for Fiscal Years 2010 through 2013.
Pre-retirement:	N/A	N/A	N/A
Post-retirement Healthy Lives:	N/A	N/A	N/A
Post-retirement Disabled Lives:	N/A	N/A	N/A
Inflation/Railroad Retirement Wage Base:	2.50%	2.50%	2.50%
Cost-of-Living Adjustments:	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.	1.5% per annum for Auto COLA and 2.5% per annum for Escalation.



			NYSLERS Plan		
Valuation Dates:	April 1, 2020	April 1, 2019	April 1, 2018	April 1, 2017	April 1, 2016
Measurement Date:	March 31, 2021	March 31, 2020	March 31, 2019	March 31, 2018	March 31, 2017
Actuarial cost method:	Aggregate Cost method				
Amortization method:	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.
Asset Valuation Method:	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.
Salary increases:	4.40% in ERS; 6.20% in PFRS	4.20% in ERS; 5.00% in PFRS	3.80%	3.80%	3.80%
Actuarial assumptions: Discount Rate:	5.90%	6.80%	7.00%	7.00%	7.00%
Investment rate of return:	5.90%, net of investment expenses.	6.80%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.00%, net of investment expenses.
Mortality:	Annuitant mortality rates are based on NYSLERS's 2015 experience study of the period April 1, 2015 through March 31, 2020 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2020.	Annuitant mortality rates are based on NYSLERS's 2015 experience study of the period April 1, 2010 through March 31, 2015 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2018.	Annuitant mortality rates are based on NYSLERS's 2015 experience study of the period April 1, 2010 through March 31, 2015 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2014.	Annuitant mortality rates are based on NYSLERS's 2015 experience study of the period April 1, 2010 through March 31, 2015 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2014.	Annuitant mortality rates are based on NYSLERS's 2010 experience study of the period April 1, 2005 through March 31, 2010 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2014.
Pre-retirement:	N/A	N/A	N/A	N/A	N/A
Post-retirement Healthy Lives:	N/A	N/A	N/A	N/A	N/A
Post-retirement Disabled Lives:	N/A	N/A	N/A	N/A	N/A
Inflation/Railroad Retirement Wage Base:	2.70%	2.50%	2.50%	2.50%	2.50%
Cost-of-Living Adjustments:	1.4% per annum.	1.3% per annum.	1.3% per annum.	1.3% per annum.	1.3% per annum.



NYSLERS Plan (continued)								
Valuation Dates:	April 1, 2016	April 1, 2015	April 1, 2014					
Measurement Date:	March 31, 2017	March 31, 2016	March 31, 2015					
Actuarial cost method:	Aggregate Cost method	Aggregate Cost method	Aggregate Cost method					
Amortization method:	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.	Evenly over the remaining working lifetimes of the active membership.					
Asset Valuation Method:	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5 year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.	5-year level smoothing of the difference between the actual gain and the expected gain using the assumed investment rate of return.					
Salary increases:	3.80%	3.80%	4.90%					
Actuarial assumptions: Discount Rate:	7.00%	7.00%	7.50%					
Investment rate of return:	7.00%, net of investment expenses.	7.00%, net of investment expenses.	7.5%, net of investment expenses.					
Mortality:	Annuitant mortality rates are based on NYSLERS's 2010 experience study of the period April 1, 2005 through March 31, 2010 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2014.	Annuitant mortality rates are based on NYSLERS's 2010 experience study of the period April 1, 2005 through March 31, 2010 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2014.	Annuitant mortality rates are based on NYSLERS's 2010 experience study of the period April 1, 2005 through March 31, 2010 with adjustments for mortality improvements based on the Society of Actuaries' Scale MP-2014.					
Pre-retirement:	N/A	N/A	N/A					
Post-retirement Healthy Lives:	N/A	N/A	N/A					
Post-retirement Disabled Lives:	N/A	N/A	N/A					
Inflation/Railroad Retirement Wage Base:	2.50%	2.50%	2.70%					
Cost-of-Living Adjustments:	1.3% per annum.	1.3% per annum.	1.4% per annum.					



#### Notes to Schedule of MTA's Contributions for All Pension Plans

(concluded)

Significant methods and assumptions used in calculating the actuarially determined contributions of an employer's proportionate share in Cost Sharing, Multiple-Employer pension plans, the NYCERS plan and the NYSLERS plan, are presented as notes to the schedule.

Factors that significantly affect trends in the amounts reported are changes of benefit terms, changes in the size or composition of the population covered by the benefit terms, or the use of different assumptions. Following is a summary of such factors:

#### Changes of Benefit Terms:

There were no significant legislative changes in benefit for the June 30, 2020 valuation for the NYCERS plan.

There were no significant legislative changes in benefit for the April 1, 2020 valuation for the NYSLERS plan.

# Changes of Assumptions:

There were no significant changes in the economic and demographic used in the June 30, 2020 valuation for the NYCERS plan.

There were no significant changes in the economic and demographic assumptions used in the April 1, 2020 valuation for the NYSLERS plan.



## REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)

Schedule of Changes in the MTA's Net OPEB Liability and Related Ratios and Notes to Schedule

(\$ in thousands)				
Plan Measurement Date (December 31):	2020	2019	2018	2017
Total OPEB liability:				
Service cost	\$ 1,097,051	\$ 928,573	\$1,002,930	\$ 884,548
Interest on total OPEB liability	610,160	840,532	734,968	731,405
Effect of plan changes	-	-	1,580	27,785
Effect of economic/demographic (gains) or losses	(43,890)	247,871	(19,401)	13,605
Effect of assumption changes or inputs	1,939,528	311,286	(1,800,135)	911,465
Benefit payments	(724,741)	(730,677)	(691,122)	(650,994)
Net change in total OPEB liability	2,878,108	1,597,585	(771,180)	1,917,814
Total OPEB liability—beginning	21,531,473	19,933,888	20,705,068	18,787,254
Total OPEB liability—ending (a)	24,409,581	21,531,473	19,933,888	20,705,068
Plan fiduciary net position:				
Employer contributions	387,371	730,677	691,122	650,994
Net investment income	(77,118)	63,647	(18,916)	47,370
Benefit payments	(724,741)	(730,677)	(691,122)	(650,994)
Administrative expenses	(209)	(200)	(56)	
Net change in plan fiduciary net position	(414,697)	63,447	(18,972)	47,370
Plan fiduciary net position—beginning	414,827	351,380	370,352	322,982
Plan fiduciary net position—ending (b)	130	414,827	351,380	370,352
Net OPEB liability—ending (a)-(b)	\$24,409,451	\$ 21,116,646	\$ 19,582,508	\$ <u>20,334,716</u>
Plan fiduciary net position as a percentage				
of the total OPEB liability	0.00%	1.93%	1.76%	1.79%
Covered payroll	\$ 6,716,423	\$6,901,690	\$6,903,700	\$5,394,332
Net OPEB liability as a percentage of covered payroll	363.43%	305.96%	283.65%	376.96%

#### **Notes to Schedule:**

Changes of benefit

terms: In the July 1, 2019 actuarial valuation, there were no changes to the benefit terms.

Changes of In the July 1, 2019 actuarial valuation, there were updates to various healthcare assumptions including

assumptions: the per capita claim costs assumption and healthcare trend assumptions.

Note: This schedule is intended to show information for ten years. However, until a full 10-year trend has been compiled, information is presented only for the years for which the required supplementary information is available.



# REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)

# Schedule of the MTA's Contributions to the OPEB Plan for the years ended December 31:

(\$ in thousands)		2021	_	2020	_	2019	2018	_	2017
Actuarially Determined Contribution		N/A		N/A		N/A	N/A		N/A
Actual Employer Contribution (1)	\$	813,195	\$	391,529	\$	737,297	\$ 691,122	\$	650,994
Contribution Deficiency (Excess)		N/A		N/A		N/A	N/A		N/A
Covered Payroll	\$	6,537,709	\$	6,716,423	\$	6,901,690	\$ 6,903,700	\$	5,394,200
Actual Contribution as a Percentage of Covered Payroll	_	12.44%		5.83%	_	10.68%	 10.01%		12.07%

<sup>(1)</sup> Actual employer contribution includes the implicit rate of subsidy adjustment of \$52,933 and \$62,852 for the years ended December 31, 2021 and 2020, respectively.

Note: This schedule is intended to show information for ten years. However, until a full 10-year trend has been compiled, information is presented only for the years for which the required supplementary information is available.



# REQUIRED SUPPLEMENTARY INFORMATION (UNAUDITED)

# Notes to Schedule of the MTA's Contributions to the OPEB Plan:

Valuation date	July 1, 2019	July 1, 2019	July 1, 2017	July 1, 2017
Measurement date	December 31, 2020 2.12%, net of	December 31, 2019 2.74%, net of	December 31, 2018 4.10%, net of	December 31, 2017 3.44%, net of
Discount rate	expenses	expenses	expenses	expenses
Inflation	2.25%	2.25%	2.50%	2.50%
Actuarial cost method  Amortization method	Entry Age Normal Level percentage of payroll	Entry Age Normal Level percentage of payroll	Entry Age Normal Level percentage of payroll	Entry Age Normal Level percentage of payroll
Normal cost increase factor	4.25%	4.50%	4.50%	4.50%
Investment rate of return Salary increases	2.12% 3%. Varies by years of service and differs for members of the various pension plans.	5.75% 3%. Varies by years of service and differs for members of the various pension plans.	6.50% 3%. Varies by years of service and differs for members of the various pension plans.	6.50% 3%. Varies by years of service and differs for members of the various pension plans.

Note: This schedule is intended to show information for ten years. However, until a full 10-year trend has been compiled, information is presented only for the years for which the required supplementary information is available.



#### SUPPLEMENTARY INFORMATION

**Pension And Other Employee Benefit Trust Funds** 

Combining Statement of Fiduciary Net Position as of December 31, 2021

•			Pe	nsion Funds				Employee Trust Fund		
(\$ in thousands)	Defined Benefit Pension Plan		LIRR Company Plan for Additional Pensions		MaBSTOA Plan		Other Post- employment Benefits Plan		Total	
ASSETS:					-					
Cash	\$	24,495	\$	2,956	\$	11,821	\$	107	\$	39,379
Receivables:										
Employee loans		-		-		26,082		-		26,082
Participant and union contributions		-		(20)		-		-		(20)
Investment securities sold		-		139		5,532		-		5,671
Accrued interest and dividends		2,798		338		1,746		-		4,882
Other receivables		2,412		1,358						3,770
Total receivables		5,210		1,815		33,360		-		40,385
Investments at fair value		5,739,559		773,997		3,630,953		-		10,144,509
Total assets	\$	5,769,264	\$	778,768	\$	3,676,134	\$	107	\$	10,224,273
LIABILITIES:										
Accounts payable and accrued liabilities	\$	6,471	\$	279	\$	1,565	\$	-	\$	8,315
Payable for investment securities purchased		8,155		984		5,620		-		14,759
Accrued benefits payable		-		-		50		24		74
Accrued postretirement death benefits (PRDB) payable		-		-		5,405		-		5,405
Accrued 55/25 Additional Members Contribution (AMC) payable		-		-		3,847		-		3,847
Other liabilities		1,509		182		1,296		<u> </u>		2,987
Total liabilities		16,135		1,445		17,783		24		35,387
NET POSITION:										
Restricted for pensions		5,753,129		777,323		3,658,351		-		10,188,803
Restricted for postemployment benefits other than pensions		<u>-</u>		<u>-</u>				83		83
Total net position		5,753,129		777,323		3,658,351		83	-	10,188,886
Total liabilities and net position	\$	5,769,264	\$	778,768	\$	3,676,134	\$	107	\$	10,224,273



#### **SUPPLEMENTARY INFORMATION**

Pension And Other Employee Benefit Trust Funds

Combining Statement of Fiduciary Net Position as of December 31, 2020

(\$ in thousands)	Pension Funds  LIRR Company  Defined Benefit Plan for Additional  Pension Plan Pensions					STOA Plan	Other Employee Benefit Trust Fund Other Post- employment Benefits Plan	Total	
ASSETS:			-						
Cash	\$	10,702	\$	1,480	\$	8,076	\$ -	\$	20,258
Receivables:									
Employee loans		-		-		30,744	-		30,744
Participant and union contributions		-		(6)		-	-		(6)
Investment securities sold		-		2,769		1,902	-		4,671
Accrued interest and dividends		2,712		375		1,351	-		4,438
Other receivables		21,687		97					21,784
Total receivables		24,399		3,235		33,997	-		61,631
Investments at fair value		4,980,355		755,908		3,273,256	172		9,009,691
Total assets	\$	5,015,456	\$	760,623	\$	3,315,329	<u>\$ 172</u>	\$	9,091,580
LIABILITIES:									
Accounts payable and accrued liabilities		5,461		316		-	-		5,777
Payable for investment securities purchased		3,921		542		4,317	-		8,780
Accrued benefits payable		-		-		73	42		115
Accrued postretirement death benefits (PRDB) payable		=		-		4,204	=		4,204
Accrued 55/25 Additional Members Contribution (AMC) payable		-		-		4,643	-		4,643
Other liabilities		310		43					353
Total liabilities		9,692		901		13,237	42		23,872
NET POSITION:									
Restricted for pensions		5,005,764		759,722		3,302,092	-		9,067,578
Restricted for postemployment benefits other than pensions		-		-			130		130
Total net position		5,005,764		759,722		3,302,092	130		9,067,708
Total liabilities and net position	\$	5,015,456	\$	760,623	\$	3,315,329	<u>\$ 172</u>	\$	9,091,580

Other Employee



# (A Component Unit of the State of New York)

#### **SUPPLEMENTARY INFORMATION**

## Pension And Other Employee Benefit Trust Funds

Combining Statement of Changes in Fiduciary Net Position for the year ended December 31, 2021

		Pension Funds	Benefit Trust Fund			
(\$ in thousands)	Defined Benefit Pension Plan	LIRR Additional Plan	MaBSTOA Plan	Other Post- employment Benefit Plan	Total	
ADDITIONS:	-	<del>-</del>				
Contributions:						
Employer contributions	\$ 396,1	4 \$ 70,553	\$ 156,204	\$ 740,051	\$ 1,362,952	
Implicit rate subsidy contribution			=	52,933	52,933	
Member contributions	33,8	2 73	24,935		58,840	
Total contributions	429,9	6 70,626	181,139	792,984	1,474,725	
Investment income:						
Net (depreciation) / appreciation in fair value of investments	618,4	6 93,218	401,056	-	1,112,770	
Dividend income	64,4	6 8,131	42,762	-	115,369	
Interest income	10,8	5 1,361	8,197	-	20,453	
Less: Investment expenses	47,4		31,205		85,192	
Investment income, net	646,3	5 96,215	420,810		1,163,400	
Total additions	1,076,3	1 166,841	601,949	792,984	2,638,125	
DEDUCTIONS:						
Benefit payments and withdrawals	324,9	9 148,630	243,251	740,051	1,456,931	
Implicit rate subsidy payments			-	52,933	52,933	
Transfer to other plans	4	4	-	-	474	
Distribution to participants			2,175	-	2,175	
Administrative expenses	3,5			47	4,434	
Total deductions	328,9	6 149,240	245,690	793,031	1,516,947	
Net increase (decrease) in fiduciary net position	747,3	5 17,601	356,259	(47)	1,121,178	
NET POSITION:						
Restricted for Benefits:						
Beginning of year	5,005,7		3,302,092	130	9,067,708	
End of year	\$ 5,753,1	9 \$ 777,323	\$ 3,658,351	\$ 83	\$ 10,188,886	

Other Employee Benefit



# (A Component Unit of the State of New York)

#### **SUPPLEMENTARY INFORMATION**

## **Pension And Other Employee Benefit Trust Funds**

Combining Statement of Changes in Fiduciary Net Position for the year ended December 31, 2020

			Pensi	Trust Fund				
(\$ in thousands)		Defined Benefit Pension Plan			MaBSTOA Plan	Other Post- employment Benefits Plan	Total	
ADDITIONS:								
Contributions:								
Employer contributions	\$	394,986	\$	68,723	\$ 159,486	\$ 317,899	\$	941,094
Implicit rate subsidy contribution		-		-	-	69,472		69,472
Member contributions		32,006		141	24,709			56,856
Total contributions		426,992		68,864	184,195	387,371		1,067,422
Investment income:								
Net appreciation in fair value of investments		76,041		366	40,738	(77,576)		39,569
Dividend income		44,575		1,648	29,752	734		76,709
Interest income		11,461		6,536	8,943	119		27,059
Less: Investment expenses		35,378		4,742	20,046	395		60,561
Investment income, net		96,699		3,808	59,387	(77,118)		82,776
Total additions		523,691		72,672	243,582	310,253		1,150,198
DEDUCTIONS:								
Benefit payments and withdrawals		293,603		152,924	237,931	655,269		1,339,727
Implicit rate subsidy payments		-		-	-	69,472		69,472
Transfer to other plans		233		(878)	-	-		(645)
Administrative expenses		3,660		612	244	209		4,725
Total deductions		297,496		152,658	238,175	724,950		1,413,279
Net increase in fiduciary net position		226,195		(79,986)	5,407	(414,697)		(263,081)
NET POSITION: Restricted for Benefits:								
Beginning of year		4,779,569		839,708	3,296,685	414,827		9,330,789
End of year	\$	5,005,764	\$	759,722	\$ 3,302,092	\$ 130	\$	9,067,708
•	<del></del>						_	



# SUPPLEMENTARY INFORMATION

SCHEDULE OF CONSOLIDATED RECONCILIATION BETWEEN FINANCIAL PLAN AND FINANCIAL STATEMENTS FOR THE YEAR ENDED DECEMBER 31, 2021 (\$ in millions)

	Financial Plan	Statement	
Category	Actual	GAAP Actual	Variance
REVENUE:			
Farebox revenue	\$ 2,973	\$ 3,048	\$ 75
Vehicle toll revenue	2,132	2,170	38
Other operating revenue	660	557	(103)
Total revenue	5,765	5,775	10
OPERATING EXPENSES:			
Labor:			
Payroll	5,291	5,233	(58)
Overtime	1,001	971	(30)
Health and welfare	1,421	1,353	(68)
Pensions	1,419	496	(923)
Other fringe benefits	966	815	(151)
Postemployment benefits	2,305	1,865	(440)
Reimbursable overhead	(377)	(400)	(23)
Total labor expenses	12,026	10,333	(1,693)
Non-labor:			
Electric power	428	430	2
Fuel	166	163	(3)
Insurance	33	26	(7)
Claims	314	426	112
Paratransit service contracts	365	346	(19)
Maintenance and other	841	726	(115)
Professional service contract	646	503	(143)
Pollution remediation project costs	6	37	31
Materials and supplies	521	486	(35)
Other business expenses	210	196	(14)
Total non-labor expenses	3,530	3,339	(191)
Depreciation	3,140	3,158	18
Other expenses adjustment	32	<u>-</u>	(32)
Total operating expenses	18,728	16,830	(1,898)
NET OPERATING LOSS	<u>\$ (12,963)</u>	<u>\$ (11,055)</u>	\$ 1,908



#### (A Component Unit of the State of New York)

#### SUPPLEMENTARY INFORMATION

SCHEDULE OF CONSOLIDATED SUBSIDY ACCRUAL RECONCILIATION BETWEEN FINANCIAL PLAN AND FINANCIAL STATEMENTS FOR THE YEAR ENDED DECEMBER 31, 2021 (\$ in millions)

Accrued Subsidies	Financial Plan Actual	Financial Statement GAAP Actual	Variance	
Mass transportation operating assistance	\$ 2,247	\$ 2,247	\$ -	{1}
Mass transit trust fund subsidies	597	583	(14)	{1}
Mortgage recording tax 1 and 2	625	660	35	{1}
MRT transfer	(7)	(13)	(6)	{1}
Urban tax	393	513	120	{1}
State and local operating assistance	376	410	34	{1}
Station maintenance	180	177	(3)	{1}
Connecticut Department of Transportation (CDOT)	278	292	14	{1}
Subsidy from New York City for MTA Bus and SIRTOA	784	483	(301)	{1}
Build American Bonds Subsidy	-	84	84	{1}
Mobility tax	2,218	2,272	54	{1}
Assistance Fund (For hire vehicle)	238	253	15	{1}
Real Property Transfer Tax Surcharge (Mansion Tax)	306	394	88	{1}
Internet Marketplace Tax	343	345	2	{1}
Transfer to Central Business District Capital Lockbox	(644)	-	644	{1}
Other non-operating income	5	4,540	4,535	{2}
Total accrued subsidies	7,939	13,240	5,301	
Net operating deficit before subsidies and debt service	(12,963)	(11,055)	1,908	
Debt Service	(2,822)	(1,813)	1,009	
Loss on disposal of subway cars	-	(1)	(1)	
Conversion to Cash basis: Depreciation	3,140	-	(3,140)	
Conversion to Cash basis: OPEB Obligation	1,576	-	(1,576)	
Conversion to Cash basis: GASB 68 pension adjustment	7	-	(7)	
Conversion to Cash basis: Pollution & Remediation	6		(6)	
Total net operating surplus/(deficit) before appropriations, grants				
and other receipts restricted for capital projects	\$ (3,117)	\$ 371	\$ 3,488	

<sup>{1}</sup> The Financial Plan records on a cash basis while the Financial Statement records on an accrual basis.

<sup>{2}</sup> The Financial Plan records do not include other non-operating income or changes in market value.



#### (A Component Unit of the State of New York)

#### SUPPLEMENTARY INFORMATION

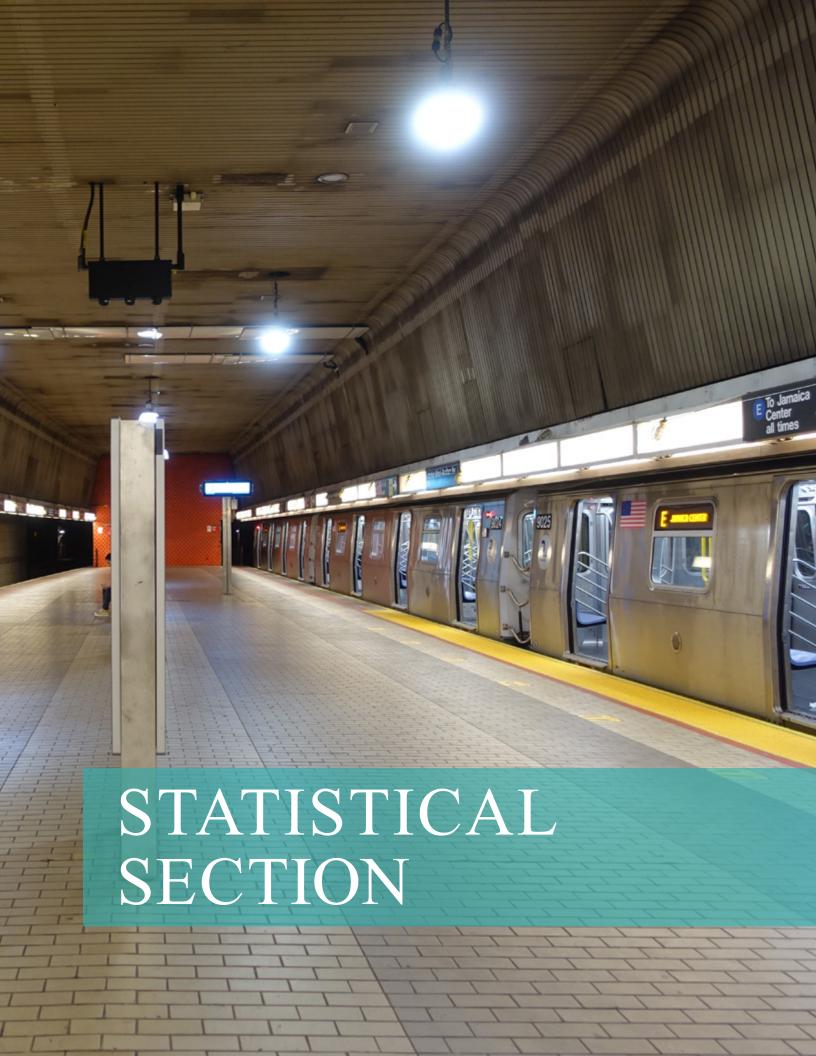
SCHEDULE OF FINANCIAL PLAN TO FINANCIAL STATEMENTS RECONCILIATION

RECONCILING ITEMS

FOR THE YEAR ENDED DECEMBER 31, 2021

(\$ in millions)

Financial Plan Actual Operating Loss at December 31, 2021	<u>\$</u>	(12,963)
The Financial Plan Actual Includes:		
1 Lower farebox and vehicle toll revenues		113
2 Higher other operating revenue		(103)
3 Higher labor expense primarily from higher pension expense projections		1,693
4 Higher non-labor expense primarily from higher professional service contract expense		191
5 Other expense adjustments		14
Total operating reconciling items		1,908
Financial Statements Operating Loss at December 31, 2021	_	(11,055)
Financial Plan Deficit after Subsidies and Debt Service		(3,117)
The Financial Plan Actual Includes:		
1 Debt service bond principal payments		1,009
2 Adjustments for non-cash liabilities:		
Depreciation (3,140	)	
Unfunded OPEB expense (1,576	)	
Unfunded GASB No. 68 pension adjustment (7	)	
Other non-cash liability adjustment (6	)	(4,729)
The Financial Statement includes:	_	
3 Higher subsidies and other non-operating revenues and expenses		5,300
4 Total operating reconciling items (from above)		1,908
Financial Statement Gain Before Capital Appropriations	<u>\$</u>	371





#### **Financial Trends**

The following tables and graphs are intended to assist users in understanding and assessing how the MTA's financial position has changed over time. They track net position, changes in net position, total revenues, and the percentage of revenues that come from various sources, along with farebox operating and recovery ratios.

Net Position																				
(\$ millions)																				
		2012		2013		2014		2015*		2016		2017		2018**		2019		2020		2021
Net Investment in Capital Assets	S	21,156	S	22,020	S	22,944	S	23,796	S	25,756	S	28,250		30,000	S	31,147	S	32,884	S	29,899
Restricted for Debt Service	Ť	417		478	_	434	_	487	_	352	-	516	_	454	Ť	554	<u> </u>	480		1,039
Restricted for Claims		176		135		167		142		178		182		206		219		287		225
Restricted for Other Purposes		1,220		906		1,011		1,051		935		983		1,230		1,207		1,184		1,346
Unrestricted		(7,290)	)	(9,334)		(11,274)		(19,665)		(21,614)		(24,707)		(27,937)		(28,676)		(29,852)		(23,366)
<b>Total Net Position</b>	\$	15,679	\$	14,205	\$	13,282	\$	5,811	\$	5,607	\$	5,224	\$	3,953	\$	4,451	\$	4,983	\$	9,143

<sup>\*</sup> Restated. Refer to the financial section of the 2016 MTA Annual Comprehensive Financial Report.

<sup>\*\*</sup> Restatement of Beginning Net Position - Refer to Note 2 in the Financial Section of the 2018 MTA Annual Comprehensive Financial Report.

498

532 \\$

4,160

4,160



**Net Change Before Restatement** 

Restatement of Beginning Net Position

#### **Changes in Net Position** (\$ millions) 2013\* 2015 \*\* 2016 \*\*\* 2018 \*\*\*\* 2019 2020 2021 Operating Revenues 7,067 \$ 7,699 \$ 7,970 8,402 | \$ 8,520 \$ 8,673 8,736 \$ 9,043 4,728 \$ 5,775 (13,962)(15,008)(15,848)(15,380)(16,150)(16,850)(16,841)(17,543)(17,018)(16,830)Operating Expenses Net Non-Operating Revenue 4,166 4,822 5,201 5,311 5,258 4,979 5,653 6,181 9,240 11,426 Grants and Other Receipts Restricted for Capital Purchases 2,392 1,565 1,754 2,662 2,302 3,582 1,980 2,168 2,817 3,789

(923) \$

313 | \$

(7,784)

(204) \$

(536) \$

(150) \$

(1,121)

 Cumulative Effect of Change in Accounting Principle

(922) \$

(552)

(337) \$

\$

<sup>\*</sup> Restatement of Beginning Net Position following adoption of GASB Statement No. 65, which requires that bond issue costs be expensed in the period incurred.

<sup>\*\*</sup> Restated. Refer to the Financial Section of the 2016 MTA Annual Comprehensive Financial Report.

<sup>\*\*\*</sup> During 2017, MTA Bridges and Tunnels changed to a more preferable method of amortizing bond premiums and discounts, constant yield. This change in method is accounted for on a prospective basis. Had the new accounting principle been used for all comparative periods presented within, the 2016 Change in Net Position would have been \$(168)\$.

<sup>\*\*\*\*</sup> Restatement of Beginning Net Position - Refer to Note 2 in the Financial Section of the 2018 MTA Annual Comprehensive Financial Report.



Revenue											
(\$ millions)											
	2012	2013	2014	2015*	2016	2017	2018	2019	2020		2021
Passenger Fares	\$ 5,079	\$ 5,507	\$ 5,709	\$ 5,961	\$ 6,036	\$ 6,172	\$ 6,155	\$ 6,351	\$ 2,625	\$	3,048
Tolls	1,491	1,645	1,676	1,803	1,863	1,912	1,976	2,071	1,640		2,170
Other Operating Revenue	497	547	585	638	621	589	605	621	463		557
Tax-Supported Subsidies	4,350	4,925	5,310	5,532	5,506	5,258	5,432	5,874	5,393	1	7,014
Grants and Appropriations Restricted for Capital Projects	2,392	1,565	1,754	1,980	2,168	2,662	2,302	2,817	3,582		3,789
Other Non-Operating Revenue	1,410	1,262	1,255	1,185	1,251	1,247	1,837	1,873	5,582		6,238
Total	\$ 15,219	\$ 15,451	\$ 16,289	\$ 17,099	\$ 17,445	\$ 17,840	\$ 18,307	\$ 19,607	\$ 19,285	\$	22,816

<sup>\*</sup> Restated. Refer to the financial section of the 2016 MTA Annual Comprehensive Financial Report.



#### **Revenue Capacity**

The following tables and graphs are intended to assist users in understanding and assessing the factors affecting the MTA's ability to generate its own sources of revenues. They track the subway, commuter rail, and bus fares, as well as bridge and tunnel tolls, which are the sources of revenue over which the MTA has control.

Fare rates and percentages are as of the end of each year and reflect changes made in subway, bus, and commuter rail fares. The commuter rail fares include fares to and from Connecticut stations and New Jersey Transit fares, which impact Metro-North's West-of-Hudson fares for travel to and from Penn Station. The schedules also reflect changes made to MTA bridge and tunnel tolls.



## Subway and Bus Fares\* New York City Transit, MTA Bus

	Base	Fare		MetroCa	ard Discounts			
					Unlim	ited Ride Metro	Card**	
As of December 31	Subway, Local Bus	Express Bus	Pay-Per-Ride MetroCard† Percent Added / Minimum Purchase	1-Day	7-Day	14-Day	30-Day	7-Day Express Bus Plus
2021			I					
2021		\$6.75	0% / \$5.50	-	\$33.00	_	\$127.00	\$62.00
2019								
2018	\$2.75††		5% / \$5.50	-	\$32.00	-	\$121.00	\$60.00
2017		\$6.50	·		·			\$59.50
2016		40.50	11% / \$5.50	_	\$31.00	_	\$116.50	\$57.25
2015			11707 \$5.50	_	\$51.00	_	\$110.50	\$57.25
2014	\$2.50	\$6.00	5% / \$5.00	_	\$30.00	_	\$112.00	\$55.00
2013	Ψ2.30	φ0.00	3707 \$5.00	_	\$50.00	_	\$112.00	\$55.00
2012	\$2.25	\$5.50	7% / \$10.00	-	\$29.00	-	\$104.00	\$50.00

<sup>\*</sup> The MTA has a reduced-fare program for customers with qualifying disabilities and senior citizens. The base reduced fare is \$1.35, and purchasers receive Pay-Per-Ride MetroCard bonuses described above. The reduced-fare price for 30-Day and 7-Day cards is one-half the regular price. Reduced fare is not available on express buses from 6-10 a.m. and from 3-7 p.m.

Effective March 3, 2013, a \$1.00 fee is charged for each new MetroCard purchased at a MetroCard Vending Machine, station booth, or commuter rail station.

- † Pay-Per-Ride MetroCard includes a free transfer between a bus and subway (subject to certain restrictions). Upon request, bus customers paying cash are issued a free paper transfer to another local bus.
- \*\* Unlimited Ride cards permit unlimited subway and local bus rides for the period indicated. Express Bus Plus allows unlimited express bus rides as well.
- †† The cost for a SingleRide subway ticket, available only at MetroCard Vending Machines, is \$3.00. Cash payment is not accepted for subways. A cash payment of \$2.75 may be made on buses.



### Commuter Rail Fares – One-Way Peak Fare Formulas\* Long Island Rail Road and Metro-North Railroad

			Metro-North Railroad	
Year Ended December 31	Long Island Rail Road	East-of-Hudson, New York State	East-of-Hudson, Connecticut	West-of-Hudson
2021				
2020	\$7.472+ 24.84¢/mile	\$7.467 + 24.89¢/mile		
2019			\$6.848 + 22.83¢/mile	\$5.342 + 15.64¢/mile
2018	\$7.185 + 23.88¢/mile	\$7.180 + 23.93¢/mile	\$0.848 ± 22.83¢/IIIIe	
2017	\$7.165 + 25.88¢/IIIIC	\$7.180 + 23.93¢/IIIIC		
2016	©6 000 + 22 06 d/mil-	©C 004 + 22 01 //:1-		Ø5 229 + 15 22 //····i1-
2015	\$6.909 + 22.96¢/mile	\$6.904 + 23.01¢/mile	\$6.397 + 21.32¢/mile	\$5.238 + 15.33¢/mile
2014	¢C C42 + 22 09 //mile	¢( (29 + 22 12 //m·il·	\$6.334 + 21.11¢/mile	\$5.026 + 14.74 d/m:1-
2013	\$6.643 + 22.08¢/mile	\$6.638 + 22.13¢/mile	\$6.030 + 20.10¢/mile	\$5.036 + 14.74¢/mile
2012	\$6.115 + 20.33¢/mile	\$6.110 + 20.37¢/mile	\$5.740 + 19.13¢/mile	\$4.636 + 13.57¢/mile

<sup>\*</sup> Mileage charges are based on the average distance between the main terminal and the stations in each fare zone. Monthly ticket prices are calculated by Long Island Rail Road on the basis of a 47.7 percent to 60.9 percent discount off one-way peak fares, based on 42 trips per month. On Metro-North Railroad, monthly ticket prices are calculated on the basis of a 46.3 percent to 53.2 percent discount on East-of-Hudson service and a 34.8 percent to 52.5 percent discount for West-of-Hudson service, based on approximately 42 trips per month.

The MTA has a reduced-fare program for off-peak travel for customers with qualifying disabilities and senior citizens. The reduced fare is one-half the regular fare.



## **Bridge and Tunnel Tolls**

	One-Way Automobile Toll	: Cash and Tolls by Mail / New Mid-Tier Toll Rate / E-	-ZPass*
Year Ended December 31	Bronx-Whitestone Bridge, Hugh L. Carey Tunnel, Robert F. Kennedy Bridge, Queens Midtown Tunnel, Throgs Neck Bridge, Verrazzano-Narrows Bridge†	Cross Bay Veterans Memorial Bridge, Marine Parkway-Gil Hodges Memorial Bridge	Henry Hudson Bridge
2021**	\$10.17 / \$8.36 / \$6.55	\$5.09 / \$3.77 / \$2.45	\$7.50 / 4.62 / \$3.00
2020 2019	\$9.50 / \$6.12	\$4.75 / \$2.29	\$7.00 / \$2.80
2018 2017	\$8.50 / \$5.76	\$4.25 / \$2.16	\$6.00 / \$2.64
2016 2015	\$8.00 / \$5.54	\$4.00 / \$2.08	\$5.50 / \$2.54
2014 2013	\$7.50 / \$5.33	\$3.75 / \$2.50	\$5.00 / \$2.44
2012	\$6.50 / \$4.80	\$3.25 / \$1.80	\$4.00 / \$2.20

<sup>\*</sup> E-ZPass tolls shown are for customers registered with the New York E-ZPass Customers Service Center. Non-E-ZPass customers are charged the regular cash toll amount. Charges for other types of vehicles are based on vehicle size and type. Discounts for the Verrazzano-Narrows Bridge are available to residents of Staten Island and discounts for the Marine Parkway-Gil Hodges Memorial Bridge and the Cross Bay Veterans Memorial Bridge are available to Rockaway and Broad Channel residents. Discounts are also available for commercial vehicles on the Verrazzano-Narrows Bridge. Tolls by mail are in effect at all facilities.

<sup>\*\*</sup> New for 2021, the MTA Board approved a new toll rate ("the mid-tier toll rate") that will be charged if a vehicle's E-ZPass Tag is not properly mounted when crossing MTA Bridges and Tunnels. The mid-tier toll rate is higher than the E-ZPass toll rate that is charged to E-ZPass New York Customer Service Center ("NYCSC") customers when their Tag is properly mounted, but lower than the full toll charged to customers without a NYCSC E-ZPass Tag or account.

<sup>†</sup> Tolls are collected in both directions on the Verrazzano-Narrows Bridge. Prior to December 1, 2020, tolls were only collected in the westbound direction..



#### **Debt Capacity**

The following tables and graphs are intended to assist users in understanding and assessing the MTA's debt burden, its ability to issue additional debt, and its capital lease obligations. The debt affordability chart measures debt service as a percentage against pledged revenue.

## **Debt by Resolution** (in millions)

		1						1					
	2012		2013	2014	20	15*	2016		2017	2018	2019	2020	2021
Transportation Revenue Bonds	\$ 16,428	\$	18,278	\$ 19,556	\$	20,728	\$ 21,209	\$	21,028	\$ 20,923	\$ 21,650	\$ 24,701	\$ 23,950
Bond Anticipation Notes 1	900		850	950		1,700	948		1,516	4,007	7,508	9,536	13,004
Dedicated Tax Fund Bonds	5,266		5,128	4,990		4,857	5,009		5,371	5,184	5,024	4,857	4,681
State Service Contract	400		346	286		218	145		68	-	-	-	-
2 Broadway Certificates of Participation	101		96	85		71	-		=	-	-	-	-
TBTA General Revenue Bonds	6,580		6,602	6,665		6,750	6,817		7,218	7,663	7,782	8,040	8,165
TBTA Bond Anticipation Notes	-		-	-			-		165	-	-	-	193
Payroll Mobility Tax Senior Lien Obligations	-		-	-			-		-	-	-	-	2,464
TBTA Subordinate Revenue Bonds	1,815		1,690	1,631		1,584	1,520		1,386	1,022	936	867	795
MTA Hudson Rail Yards Trust Obligations	-		-	-		-	1,057		1,057	1,057	872	845	830
Net Unamortized Bond Discount and Premium	327		998	980		1,220	2,217		2,289	2,313	2,373	2,167	 2,418
Total	\$ 31,817	\$	33,988	\$ 35,143	\$	37,128	\$ 38,922	\$	40,098	\$ 42,169	\$ 46,145	\$ 51,013	\$ 56,500
Capital Lease Obligations	\$ 836	\$	527	\$ 515	\$	534	\$ 433	\$	440	\$ 447	\$ 452	\$ 431	\$ 437
Total Population in Service Area <sup>2</sup>	15.041		15.103	15.150		15.177	15.178		15.148	15.108	15.048	14.942	 15.344
Outstanding Debt Per Capita <sup>3</sup>	\$ 0.0021	\$	0.0023	\$ 0.0023	\$	0.0024	\$ 0.0026	\$	0.0026	\$ 0.0028	\$ 0.0031	\$ 0.0034	\$ 0.0037

<sup>\*</sup> Restated. Refer to the financial section of the 2016 MTA Annual Comprehensive Financial Report.

<sup>&</sup>lt;sup>1</sup> Includes draws on a \$800 taxable revolving credit agreement with JPMorgan Chase Bank, National Association, which is active through August 24, 2022, and a \$400 taxable revolving credit agreement with Bank of America, National Association, which is active through August 24, 2022. Draws under the JPMorgan Chase Agreement and the Bank of America agreement are evidenced by revenue anticipation notes ("RANs"). As of December 31, 2021 and 2020, the outstanding RAN was \$1,196 and \$477, respectively.

<sup>&</sup>lt;sup>2</sup> Refer to Demographic and Economic Information section for details on Population in Service Area.

<sup>&</sup>lt;sup>3</sup> Calculation excludes Capital Lease Obligations.



<b>Debt Capacity</b>											
(\$ millions)											
	2012	2013	2014		2015	2016	2017	2018	2019	2020	2021
Debt Limit	\$ 37,211	\$ 39,544	\$ 41,877	\$	41,877	\$ 55,497	\$ 55,497	\$ 55,497	\$ 55,497	\$ 90,100	\$ 90,100
Debt Issuance Subject to the Limit	\$ 25,979	\$ 28,279	\$ 30,023	\$	31,776	\$ 33,149	\$ 33,948	\$ 34,397	\$ 35,396	\$ 38,391	\$ 42,248
Limit Available	\$ 11,232	\$ 11,265	\$ 11,854	\$	10,101	\$ 22,348	\$ 21,549	\$ 21,100	\$ 20,101	\$ 51,709	\$ 47,852
Percent of Limit Issued	70%	72%	72%	)	76%	60%	61%	62%	64%	43%	47%

Note: The statutory debt limit includes only debt issued for transit and commuter projects set forth in the 1992 through 2021 CPRB-approved Capital Programs. Statutory exclusions include refunding bonds and bonds issued to cover the cost of issuance.



### Debt Affordability Statement

(\$ millions)

Debt Service Schedule	2012		2013	2014		2015		2016		2017		2018	2019	2020		2021
Combined MTA/Bridges and Tunnels debt service <sup>1</sup>	\$ 2,048	\$	2,218	\$ 2,270	\$	2,346	\$	2,355	\$	2,599	\$	2,519	\$ 2,795	\$ 3,038	\$	2,974
New Money Bonds issued <sup>2</sup>	\$ 2,185	\$	2,200	\$ 2,019	\$	1,195	\$	2,896	\$	1,311	\$	949	\$ 1,704	\$ 4,081	\$	2,779
New Money Bond Anticipation Notes issued <sup>3</sup>	\$ 0	\$	300	\$ 100	\$	1,700	\$	1,400	\$	2,600	\$	3,000	\$ 5,000	\$ 4,858	\$	4,193
Debt Service by Credit	2012		2013	2014		2015		2016		2017		2018	2019	2020		2021
Transportation Revenue Bonds																
Pledged revenues 4	\$ 10,773	\$	11,748	\$ 12,549	\$	13,114	\$	13,093	\$	13,145	\$	13,190	\$ 14,023	\$ 8,778	\$	10,936
Debt service	1,093		1,257	1,332		1,399		1,381		1,581		1,457	1,751	1,989		1,852
Debt service as % of pledged revenues	10%	,	11%	11%	ò	11%	ò	11%		12%	)	11%	12%	23%		17%
Dedicated Tax Fund Bonds																
Pledged revenues (MTTF and MMTOA									İ							
receipts) <sup>5</sup>	\$ 1,863	\$	1,939	\$ 2,125	\$	2,194	\$	2,169	\$	2,284	\$	2,291	\$ 2,317	\$ 2,472	\$	2,423
Debt service	356		357	356		345		342		365		390	383	383		386
Debt service as % of pledged revenues	19%		18%	17%	ò	16%	ò	16%		16%	)	17%	17%	15%		16%
Bridges and Tunnels General Revenue Bonds																
Pledged revenues <sup>6</sup>	\$ 1,140	\$	1,266	\$ 1,268	\$	1,405	\$	1,425	\$	1,439	\$	1,474	\$ 1,560	\$ 1,196	\$	1,733
Debt service	454		460	470		476		505		528		552	558	564		586
Debt service as % of pledged revenues	40%		36%	37%	ò	34%	ò	35%		37%		37%	36%	47%		34%
Bridges and Tunnels Subordinate Revenue Bonds																
Pledged revenues 7	\$ 686	\$	806	\$ 797	\$	926	\$	920	\$	911	\$	923	\$ 1,002	\$ 632	\$	1,146
Debt service	145		144	112		126		127	İ	125		120	103	102	İ	102
Debt service as % of pledged revenues	21%		18%	14%		14%		14%		14%		13%	10%	16%		9%
Payroll MobilityTax Obligations																
Pledged revenues 8	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -	\$	1,977
Debt service	-		-	-		-		-		-		-	-	-		48
Debt service as % of pledged revenues	0%		0%	0%		0%		0%		0%		0%	0%	0%		2%

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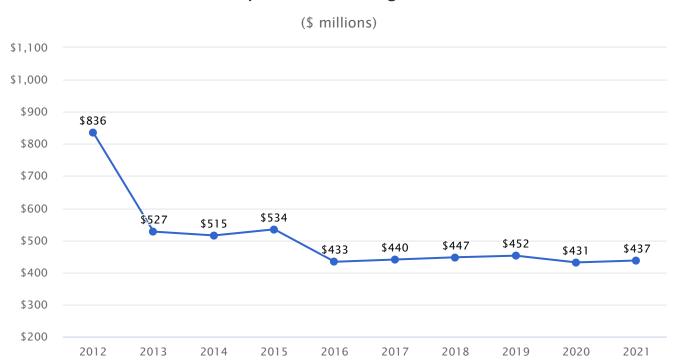
Cumulative Debt Service (Excluding State												
· · · · · · · · · · · · · · · · · · ·	2012	2012	2014	2015		2016	2017	2018		2019	2020	2021
Service Contract Bonds)	2012	2013	2014	2015		2010	2017	2018		2019	2020	2021
Combined MTA/Bridges and Tunnels debt service												
schedule	\$ 2,048	\$ 2,218	\$ 2,270	\$ 2,346	\$	2,355	\$ 2,599	\$ 2,519	\$	2,795	\$ 3,038	\$ 2,974
Operating revenues and subsidies 9	\$ 12,155	\$ 13,088	\$ 13,745	\$ 14,399	\$	14,492	\$ 14,395	\$ 15,143	\$	15,810	\$ 14,752	\$ 17,650
Total debt service as % of operating revenues and												
subsidies	18%	18%	17%	17%	þ	16%	18%	17%	b	18%	21%	17%
Fare and toll revenue	\$ 6,570	\$ 7,152	\$ 7,385	\$ 7,764	\$	7,899	\$ 8,084	\$ 8,131	\$	8,422	\$ 4,265	\$ 5,218
Total debt service as % of fare and toll revenue	31%	31%	31%	30%	,	30%	32%	31%	5	33%	71%	57%
Non-reimbursable expenses	\$ 14,216	\$ 15,008	\$ 15,848	\$ 15,380	\$	16,150	\$ 16,850	\$ 16,841	\$	17,543	\$ 17,018	\$ 16,830
Total debt service as % of non-reimbursable												
expenses	14%	15%	14%	15%		15%	15%	15%	5	16%	18%	18%

Certain amounts for years 2015 through 2020 are revised to reflect reconciliation with actuals.

#### Footnotes are an integral part of this table:

- 1 Total debt service excludes Certificates of Participation ("COPS") lease payments. All debt service numbers reduced by investment income and Build America Bonds ("BAB") subsidy.
- <sup>2</sup> New money long-term bonds issued include those bonds that retire existing Bond Anticipation Notes ("BANs"). In 2016, the total new money bonds issued included \$560.4 million of MTA Hudson Rail Yards Trust Obligations, which retired \$500 million of Transportation Revenue BANs, Subseries 2016A-1.
- New money BANs issued may be retired by long-term bonds within the same year. Maturities on BANs issued vary, and in some cases are longer than one year. In 2020, new money BANs includes \$450.72 million TRB BANs that were issued into the federal Municipal Liquidity Facility (MLF) and \$2.907 billion Payroll Mobility Tax working capital BANs that were issues into the MLF as well. In 2021, new money BANs includes \$4.0 billion Grant Anticipation Notes secured with CRRSAA and ARPA federal aid grants.
- Pledged revenues for Transportation Revenue Bonds consist generally of the following: fares and other miscellaneous revenues from the transit and commuter systems, including advertising, rental income, and certain concession revenues (not including Grand Central Terminal and Penn Station); revenues from the distribution to the transit and commuter system of TBTA surplus; state and local general operating subsidies, including the new state taxes and fees; special tax-supported operating subsidies after the payment of debt service on the MTA Dedicated Tax Fund Bonds, and the Payroll Mobility Tax Obligation Resolution Bonds; New York City urban tax for transit; station maintenance and service reimbursements; and revenues from the investment of Capital Program funds. Pledged revenues secure Transportation Revenue Bonds before the payment of operating and maintenance expenses. Starting in 2006, revenues, expenses, and debt service for MTA Bus have also been included.
- Pledged revenues for Dedicated Tax Fund Bonds consist generally of the following: petroleum business tax, motor fuel tax, and motor vehicle fees deposited into the Dedicated Mass Transportation Trust Fund for the benefit of the MTA. Also reflected in the DTF pledged revenue figures above are the petroleum business tax, district sales tax, franchise taxes, and temporary franchise surcharges deposited into the Metropolitan Mass Transportation Operating Assistance Account for the benefit of the MTA. After the payment of debt service on the MTA Dedicated Tax Fund Bonds, these subsidies are available to pay debt service on the MTA Transportation Revenue Bonds, and then any remaining amounts are available to be used to meet operating costs of the transit system, including MTA Staten Island Railway, and the commuter system. Pledged revenues and debt service for DTF are reported on State Fiscal Year.
- 6 Pledged revenues for Bridges and Tunnels General Revenue Bonds consist primarily of the tolls charged by Bridges and Tunnels on its seven bridges and two tunnels. Pledged revenues secure Bridges and Tunnels General Revenue Bonds after the payment of Bridges and Tunnels operating and maintenance expenses, including certain reserves.
- Pledged revenues for Bridges and Tunnels Subordinate Revenue Bonds consist primarily of the tolls charged by Bridges and Tunnels on its seven bridges and two tunnels, after the payment of debt service on the Bridges and Tunnels General Revenue Bonds.
- Payroll Mobility Tax Obligations pledged revenues consist of Payroll Mobility Tax and Aid Trust Account Receipts.
- <sup>9</sup> 2020 Operating Revenues and Subsidies revised to include \$4,010 revenues from CARES Act.

## **Capital Lease Obligations**



Note: 2015 restated. Refer to the financial section of the 2016 MTA Annual Comprehensive Financial Report.



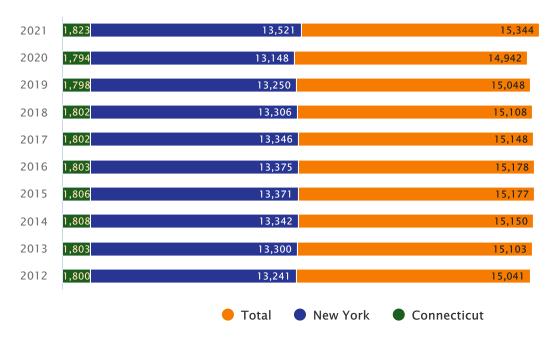
#### **Demographic and Economic Information**

The following tables and graphs are intended to assist users in understanding the socioeconomic environment within which the MTA operates and provide information that facilitates comparisons of financial statement information over time. They measure the population of the MTA's service area and local unemployment rates, both of which can affect ridership and bridge and tunnel crossings.



## Population in Service Area

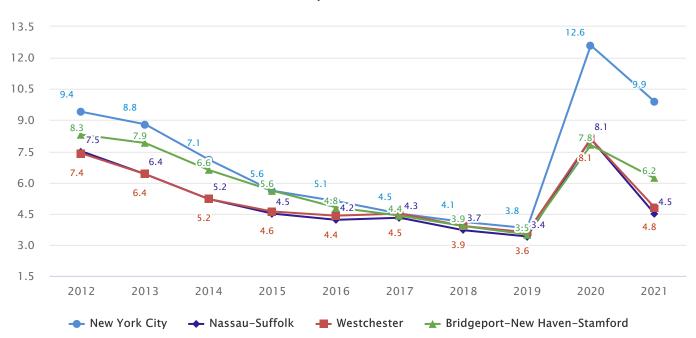
(thousands)



Note: Data represents annual population estimates, including revisions, published by the U.S. Census Bureau.



## Local Unemployment Rates (percent)



Note: Data represents annualized unemployment rates (in percentages), including revisions, published by the Bureau of Labor Statistics and local unemployment statistics.



#### **Operations**

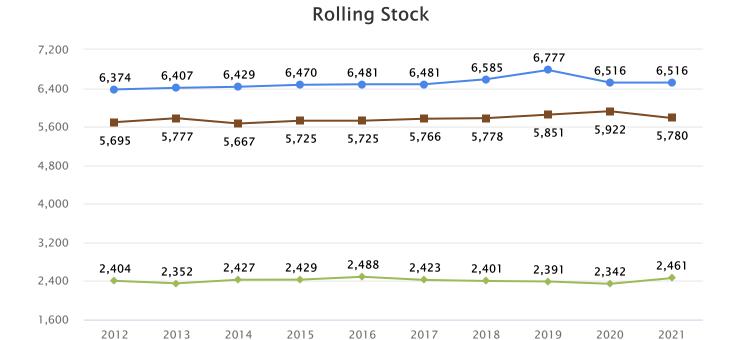
The following tables and graphs are intended to provide contextual information about the MTA's operations and resources to assist in using financial statement information to understand and assess the MTA's economic condition.

# Scope of Operations

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Subway Lines*	25	25	24	25	25	25	25	25	25	25
Subway Stations*	490	490	490	491	491	493	493	493	493	493
Subway Route Miles*	246	246	246	259	259	262	262	262	262	262
Subway Track Miles*	688	688	688	691	691	694	694	694	694	694
Commuter Rail Lines	17	17	17	17	17	16	17	17	17	17
Commuter Rail Stations	246	246	246	247	247	248	248	247	247	247
Commuter Rail Route Miles	704	704	704	703	703	703	703	703	703	703
Commuter Rail Track Miles	1,381	1,381	1,381	1,390	1,390	1,287	1,300	1,313	1,434	1,313
Bus Routes*	304	310	315	312	315	326	325	327	327	327
Bus Route Miles*	2,895	2,816	2,869	2,952	3,117	2,985	2,939	2,939	3,181	3,179
Bridges	7	7	7	7	7	7	7	7	7	7
Tunnels	2	2	2	2	2	2	2	2	2	2

<sup>\*</sup> Includes New York City Subway and Staten Island Railway.

<sup>\*\*</sup> Beginning in 2012, statistics no longer include operations of MTA Long Island Bus. The Lease and Operating Agreement between Nassau County and MTA Long Island Bus was terminated effective December 31, 2011, and Nassau County contracted with a private operator to provide bus and paratransit service in the county commencing January 1, 2012.



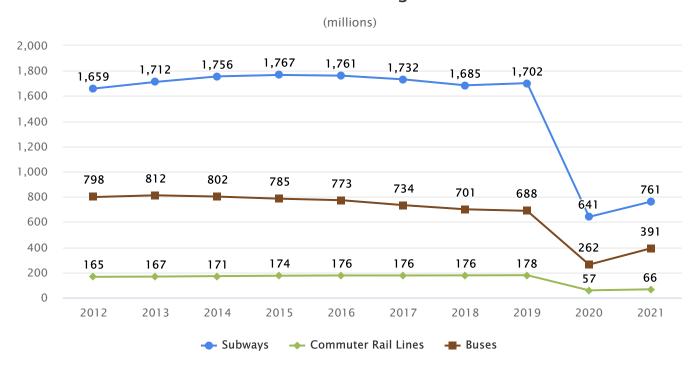
Note: Beginning in 2012, statistics no longer include rolling stock of MTA Long Island Bus. The Lease and Operating Agreement between Nassau County and MTA Long Island Bus was terminated effective December 31, 2011, and Nassau County contracted with a private operator to provide bus and paratransit service in the county commencing January 1, 2012.

→ Commuter Rail Cars

Buses

Subway Cars

### Revenue Passengers\*



Bus ridership includes passengers of Access-A-Ride paratransit. Beginning in 2012, statistics no longer include revenue passengers of MTA Long Island Bus. The Lease and Operating Agreement between Nassau County and MTA Long Island Bus was terminated effective December 31, 2011, and Nassau County contracted with a private operator to provide bus and paratransit service in the county commencing January 1, 2012.

<sup>\* &</sup>quot;Revenue Passengers" are defined as all passengers from whom revenue is received, either through direct fare payment (cash or MetroCards) or fare reimbursements (senior citizens, students, and customers with disabilities).

0

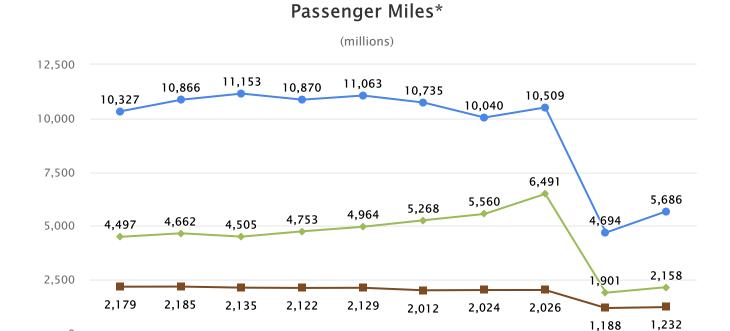
2012

2013

2014

Subway Cars

2015



2016

- Commuter Rail Cars

2017

2018

- Buses

2019

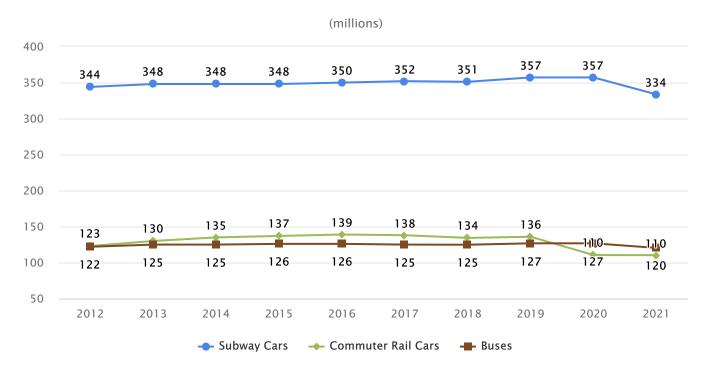
2020

2021

<sup>\*</sup> Passenger miles are estimates based on random samples and other factors. Passengers are counted on randomly selected cars throughout the year. Other factors include the actual number of cars on trains and the distances between stations. The expected variance from year to year is 10 percent, but may be higher due to the random sampling.

Beginning in 2012, statistics no longer include revenue passengers of MTA Long Island Bus. The Lease and Operating Agreement between Nassau County and MTA Long Island Bus was terminated effective December 31, 2011, and Nassau County contracted with a private operator to provide bus and paratransit service in the county commencing January 1, 2012.

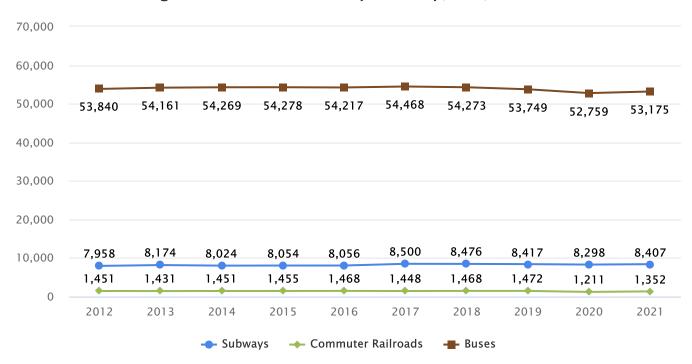
#### Revenue Vehicle Miles



Note: Beginning in 2012, statistics no longer include revenue vehicle miles of MTA Long Island Bus. The Lease and Operating Agreement between Nassau County and MTA Long Island Bus was terminated effective December 31, 2011, and Nassau County contracted with a private operator to provide bus and paratransit service in the county commencing January 1, 2012.



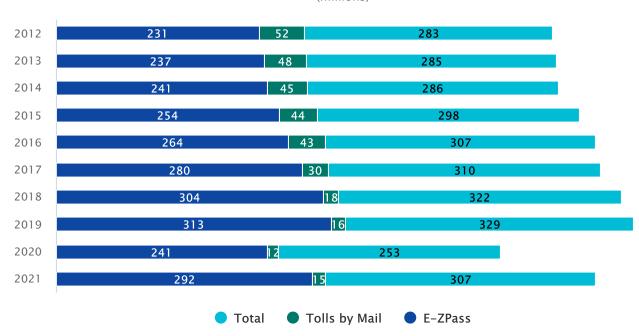
### Average Number of Weekday Subway/Bus/Train Runs



Note: Beginning in 2012, statistics no longer include average number of weekday trips of MTA Long Island Bus. The Lease and Operating Agreement between Nassau County and MTA Long Island Bus was terminated effective December 31, 2011, and Nassau County contracted with a private operator to provide bus and paratransit service in the county commencing January 1, 2012.

## **Bridges and Tunnel Vehicle Crossings**

(millions)





<b>Employees by Category</b>										
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Administration	4,169	4,320	4,458	4,720	4,965	5,079	5,016	5,051	3,870	3,779
Operations	29,146	29,633	30,027	30,411	31,192	31,831	31,514	31,917	29,960	29,805
Maintenance	29,241	29,809	30,882	31,119	31,769	32,695	33,698	32,750	30,618	29,752
Engineering/Capital Projects	1,746	1,958	1,941	2,038	2,112	2,133	2,268	2,282	1,668	1,549
Public Safety	1,639	1,661	1,717	1,738	1,771	1,837	2,199	2,250	2,084	2,202
Total	65,941	67,381	69,025	70,026	71,809	73,575	74,695	74,250	68,200	67,087

Note: Beginning in 2012, statistics no longer include employees of MTA Long Island Bus. The Lease and Operating Agreement between Nassau County and MTA Long Island Bus was terminated effective December 31, 2011, and Nassau County contracted with a private operator to provide bus and paratransit service in the county commencing January 1, 2012.



2021 Operatin	g Statistic	S						
	MTA New York City Transit Subway	MTA New York City Transit Bus <sup>(1)</sup>	MTA Bus Company	MTA Staten Island Railway	MTA Long Island Rail Road	MTA Metro- North Railroad <sup>(2)</sup>	MTA Bridges and Tunnels	MTA Network Total <sup>(3)</sup>
Paid Rides (annual)	,			·				
2021	759,976,721	311,893,590	71,431,466	1,467,733	35,036,746	30,722,008	307,296,238	1,217,645,325
2020	639,541,029	208,847,048	45,920,800	1,425,632	30,310,190	27,169,873	253,184,059	960,331,633
Gain (Loss)	120,435,692	103,046,542	25,510,666	42,101	4,726,556	3,552,135	54,112,179	257,313,692
Percent change	18.83%	49.34%	55.55%	2.95%	15.59%			26.79%
Paid Rides (average week	(day)						-	
2021	2,365,069	984,865	228,425	5,300	109,975	91,400	864,742	3,807,680
2020 (7)	2,040,581	657,418	147.025	5,318	104,037	89,914	724,750	3,066,939
Gain (Loss)	324,488	327,447	81,400	(18)	5,938	1,486	139,992	740,741
Percent change	15.90%	49.81%	55.36%	-0.34%	5.71%	1.65%		24.15%
Annual revenue vehicle n	niles							
2021	331,253,516	92,884,363	27,486,626	2,349,663	58,398,960	51,909,107	-	564,282,235
2020	354,616,371	99,482,826	27,296,961	2,545,007	61,766,650	48,719,168	-	594,426,983
Gain (Loss)	(23,362,855)	(6,598,463)	189,665	(195,344)	(3,367,690)	3,189,939	-	(30,144,748)
Percent change	-6.59%	-6.63%	0.69%	-7.68%	-5.45%	6.55%	-	-5.07%
Average number of weekda	ay							
train / bus trips	8,268	42,314	10,861	139	628	724	-	62,934
Stations	472	=		21	124	123	-	740
Train lines / bus routes	24	237	90	1	11	6	-	369
Route miles <sup>(4)</sup>								
Rail route miles	248	-	-	14	320	383	-	965
Bus route miles	-	2,127	1,052	-	-	-	-	3,179
Track miles <sup>(5)</sup>	665	-	-	29	526	787		2,007
Rolling stock								
Rail cars	6,455	-	-	61	1,243	1,218	-	8,977
Buses	-	4,481	1,299	-	-	-	-	5,780
Bridges	-	-	-	-	-	-	7	7
Tunnels	-	-	-			-	2	2
Employees <sup>(6)</sup>	31,334	14,224	3,698	340	7,207	6,088	1,114	67,087

<sup>1</sup> NYCT Transit/Bus statistics include operations of Manhattan and Bronx Surface Transit Operating Authority, an MTA New York City Transit subsidiary. They do not include ridership of Access-A-Ride paratransit operation.

<sup>2</sup> MTA Metro-North statistics Include operations on the Harlem, Hudson, and New Haven lines in New York State and Connecticut and the New York State portions of the Port Jervis and Pascack Valley lines.

<sup>3</sup> MTA Network ridership totals exclude Bridges and Tunnels crossings. MTA network ridership statistics include Access-A-Ride paratransit operations. Access-A-Ride provided 7,812,885 rides in 2021 and 7,117,061 rides in 2020. Average weekday paratransit ridership was 24,874 in 2021 and 22,646 in 2020.

<sup>4</sup> Nondirectional route miles measure the distance from terminal to terminal. Several rail or bus lines may share the same route.

<sup>5</sup> Does not include track in yards.

<sup>6</sup> Total Employees includes the following: Headquarters - 1,791 Administration personnel and 1,106 Public Safety personnel; MTA Construction and Development - 82 Administration personnel and 103 Engineering/Capital personnel.

<sup>7</sup> Includes revised amounts.



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#### www.mta.info

The Metropolitan Transportation Authority is a public benefit corporation chartered by the State of New York, Kathy Hochul, Governor. MTA Board members and management shown on these pages are current as of June 30, 2022.

#### **MTA Board**

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David R. Jones Midori Valdivia
Blanca P. Lopez Elizabeth Velez

David S. Mack Neal J. Zuckerman\*\*



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Catherine Rinaldi

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**MTA Bridges and Tunnels** 

Daniel DeCrescenzo

President

Randalls Island

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Acting President

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MTA Long Island Rail Road

Catherine Rinaldi

Interim President

Jamaica Station

Jamaica, NY 11435-4380

**MTA Construction and Development** 

Jamie Torres-Springer

President

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