

Executive Committee

Information Item IV-A
January 11, 2024

Transformation Update: Digital Modernization

Washington Metropolitan Area Transit Authority Board Action/Information Summary

 ○ Action ● Information 	Document Number: 205683	Resolution: ○ Yes ○ No

Presentation Name:

Strategic Transformation Update

Project Manager:

Kimmy Feldbauer

Project Department:

Strategic Transformation

Purpose/Key Highlights:

In this presentation, staff will provide the Board with an overview of the progress in implementing the Strategic Transformation Plan with a focus on Metro's Digital Modernization activities.

Interested Parties:

N/A

Background:

Adopted in February 2023, Metro's Strategic Transformation Plan (STP), *Your Metro, The Way Forward,* guides the organization in its response to the changing world and Metro's operational challenges. The STP defines Metro's priorities and connects the mission, vision, and goals with actionable initiatives to drive progress, enhance transparency, and build trust with Metro's customers, staff, and stakeholders.

There are four overarching goals that drive Metro's process: Service Excellence, Talented Teams, Regional Opportunity and Partnership, and Sustainability. The STP connects each goal to supporting objectives aligned to detailed initiatives. Further, the STP defines specific Key Performance Indicators (KPIs), which are systematically tracked to monitor and support progress. In addition, the General Manager and Chief Executive Officer's Business Plan identifies Metro priorities, provides the foundation for department-specific work plans, and keeps the agency focused on the long-term goals outlined in the STP. The Business Plan outlines necessary actions to achieve priorities, provides measures to monitor success, and offers the Board and public with

a transparent and accountable framework. The proposed budget and multi-year operating and capital investment plans reflect these priorities

Discussion:

<u>Digital Transformation Strategy and Implementation</u>

A key component of the Strategic Transformation Plan is a stable digital infrastructure, culture, and team that will enable Metro to leverage the power of technology to improve operations; empower our teams and our customers to use data for daily decision making; and position Metro to become a transformation agent in transportation. In short, our information technology transformation strategy is focused on digital activation of the strategic transformation plan. Our digital activation efforts will be guided by the following three pillars:

- Ensuring a secure, reliable, sustainable foundation for the Authority
- Empowering our teams with digital tools and data
- Partnering with our stakeholders and customers to provide responsive support

Over the next twelve months the Office of the Chief Digital Officer will be focused on modernizing and reorganizing our hardware and software foundation. Also in this time, we will focus on creating greater transparency and repeatability, and leveraging technologies, such as artificial intelligence, to improve governance processes and integrate our data sources and operations.

While we stabilize this foundation, the Office of the Chief Digital Officer will move Metro toward the following five digital goals:

- Building a collaborative, responsive culture within our Digital Modernization team
- Providing transparent self-service to empower our teams and WMATA customers
- Operating single systems of record on an adaptive IT infrastructure; reducing duplication and costs
- Providing reports and data from data lake or data mesh that represents a single source of truth
- Operating a Zero Trust cybersecurity environment

Funding Impact:

No funding impacts at this time.

Previous Actions:

February 2023 - Board adoption of "Your Metro, the Way Forward" as Metro's Strategic Transformation Plan

Next Steps:

March 2024 - Annual Transformation Update

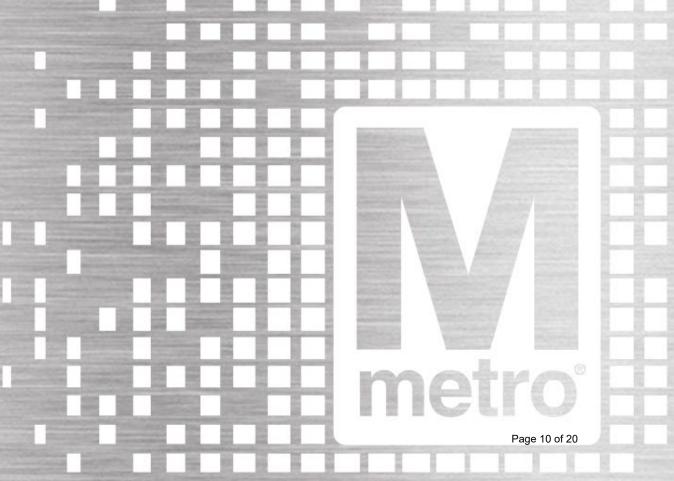
Recommendation:

Information Only

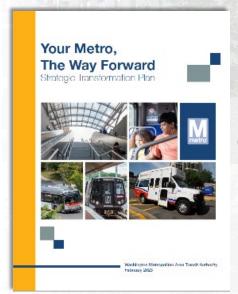
Transformation Update

Digital Modernization Strategy

Executive Committee
January 11, 2024



Strategic Transformation Plan: Guides long term strategy and day-to-day decision making of Metro over the next five + years





Day-to-day decisions

- Customer interactions
- Service schedules
- Communications

Long-term strategy

- Budget allocation
- Capital improvements
- Priority projects



Goals — Our priorities to achieve the vision

Service Excellence

Talented Teams

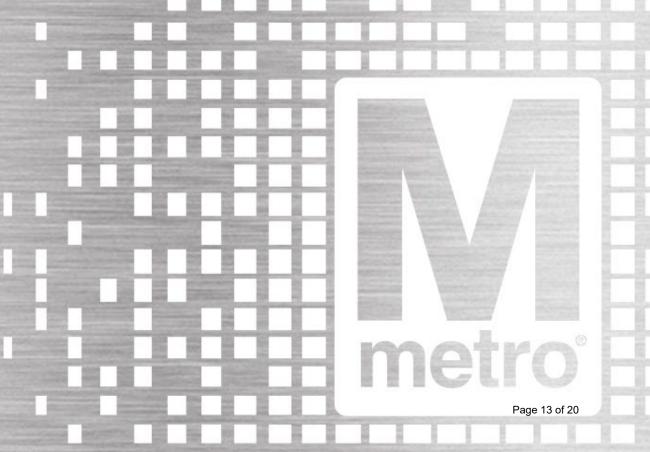
Regional
Opportunity and
Partnership

Sustainability

Purpose and Agenda

 To provide an update on Digital Modernization Strategy to advance Strategic Transformation Plan goals

January 11, 2024



Changing Digital Service Delivery

Service Excellence	Talented Teams	Regional Opportunity and Partnership	Sustainability
☐ Drive safety and security	Promote collaboration and process efficiency	☐ Promote community engagement	☐ Drive operational efficiencies
☐ Improve on-time performance	☐ Improve employee engagement	☐ Support multi-modal travel	☐ Improve asset management & maintenance
☐ Provide a seamless customer experience	☐ Increase productivity	☐ Improve service frequency	☐ Create successful emissions management
			☐ Streamline and simplify technology landscape

Delivering the Strategic Transformation Plan requires modern technology



What We've Heard From Our Teams and Customers

Engaging with Information Technology is cumbersome

No catalog of services or project pipeline visible to the business

How we will address your needs





SUPPORT AND PARTNER for your technology needs

Data & digital tools not easy to use

Data not structured to support operations and decision making

Legacy architecture is not flexible





Enable our customers and teams with DIGITAL TOOLS AND DATA

Systems and infrastructure unable to meet current & future needs

Highly customized systems that are difficult to maintain/upgrade

Infrastructure is not sufficiently resilient





Ensure a secure, reliable, and sustainable FOUNDATION



Three Digital Phases



SUPPORT AND PARTNER for your technology needs



Enable our customers and teams with DIGITAL TOOLS AND DATA



Ensure secure, reliable, and sustainable FOUNDATION

Organization:

Get the Basics Right

- Functional organization
- New brand
- Investments aligned with strategy

Transparency:

Communicate with our Stakeholders

- Transparent information
- Streamlined processes
- Technology
 Governance Board

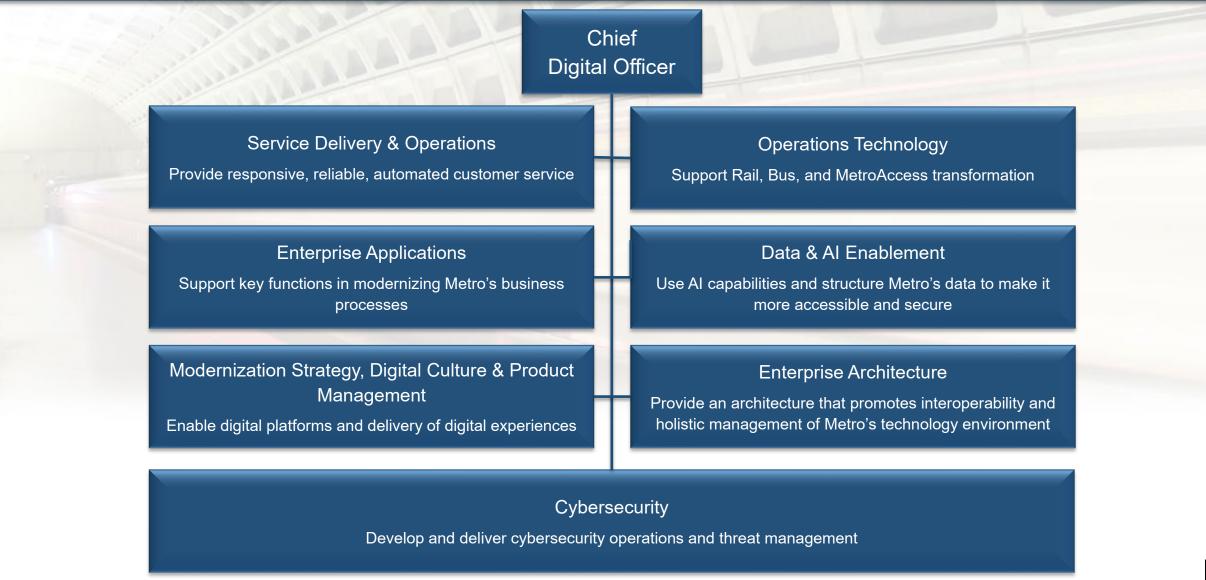
Activation:

Position Metro for Innovation

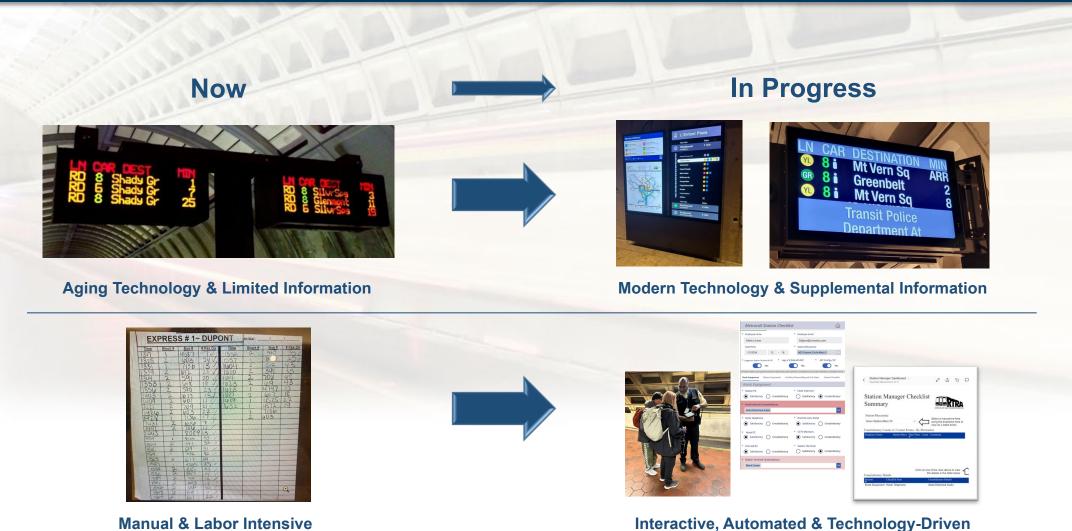
- Innovation and modernization
- Innovation cell launch
- Cutting-edge technologies



Functional Organization

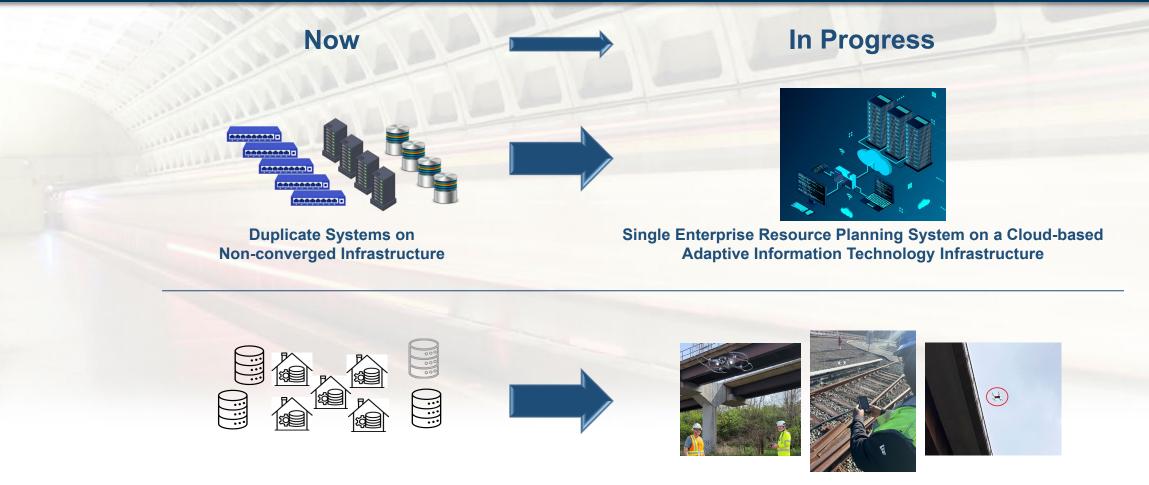


Modernization in Progress





Modernization in Progress



Duplicate Data Stored in Multiple Locations

Data from Multiple Sources
Captured in a Data Lake for Artificial Intelligence Analysis



Digitally Activating the Strategic Transformation Plan

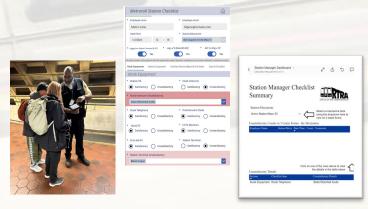


MetroPulse and
Passenger Information
Display System



Drone Pilot Program

Using technology to provide data to our customers, improve safety, increase efficiency, and reduce costs



Station Manager Tablet
Project



Enterprise Resource Planning System

