Ashley Asmus and Russ Owen, MTS **Transportation Data Management Plan**

Presented to TAC Planning on February 11, 2021





The problem

- MTS uses data from many sources, both internal and external
- Data are stored in many kinds of formats and in many locations
- Methods for tracking transportation performance not well-documented
- Mismatch between TPP Goals & Objectives and performance measurement
- Performance measures are usually reported in static reports







The solution: a whole-division initiative

- Organization of frequently-used data into databases • Formal documentation on data sourcing & methodology
- Staff training on data management
- Better understanding of what we are tracking and why Development of internal & external dashboards to view, filter and download
- transportation data





Work Plan





Task Outline

- Strategic data assessment
- Peer research
- Identify data sources and methods
- Policymaker review of key performance measures
- Develop a data management plan
- Build cohesive database
- Data management training
- Dashboard scoping and design
- Dashboard development



Task 1: Strategic data assessment

- Exhaustive inventory of reports produced by MTS that present transportation performance measures
- Transportation System Performance Evaluation (TSPE), TPP, Olmstead Report, Regional Ridership Analysis
- Reports and performance measures are being tracked in a shared database
- Timeframe: August 2020 February 2021







Task 2: Peer Research

- Goal: help us plan our transportation dashboard
- What other MPOs have effective data management strategies?
- What makes an effective transportation measure dashboard?

• Timeframe: January 2021-May 2021











Task 3: Data Sources and Methods

- Identify canonical source of each transportation measure
- Scope out methods to automate data handling, including download, extraction, transformation and upload to our database

Time frame: February 2021 – June 2021







Task 4: Policymaker review of key performance measures

- Re-iterate our TPP goals and objectives
- Link performance measures to corresponding goals
- Identify goals that need
- Identify and explain our highest-priority transportation measures
- Timeframe: July 2021-March 2022







Task 5: Data Management Plan

- Plan will include a schematic of data that gives structure to the entire data management approach
- Include both a list of elements that will be included in the database as well as products will be developed and how they will be produced.
- Living Document
- Also address goals of the Council's Data Management Strategy
- Timeframe: July 2021-September 2021



Task 6: Build Database

- Staff will build a database that will contain all necessary data for the storage of performance measure data.
- Database architecture will be flexible to accommodate potential changes in future data needs.
- Formats that are easy for everyone to work with
- IS governance process will need to be followed.
- Timeframe: July 2021-March 2022







Task 7: Training

- MTS staff will need different levels of training
- Staff will develop a training plan for the different levels of training.
- External vendor may be used to develop training materials or to conduct training
- Timeframe: October 2021-December 2021







Task 8: Dashboard Scoping and Design

- Staff will consult with policymakers and technical advisors to determine which elements of the overall universe of data will be included in an online dashboard or set of dashboards.
- Dashboard technology will be reviewed and a visualization platform will be selected.
- Timeframe: July 2021- December 2021





Task 9: Dashboard Development

- transportation performance
- Coordination with Council Communications department and IS
- partners and other data users
- Timeframe: September 2021- April 2022



MTS staff will build an online dashboard or set of dashboards for tracking

Process will be iterative and incorporate feedback from staff, policymakers,

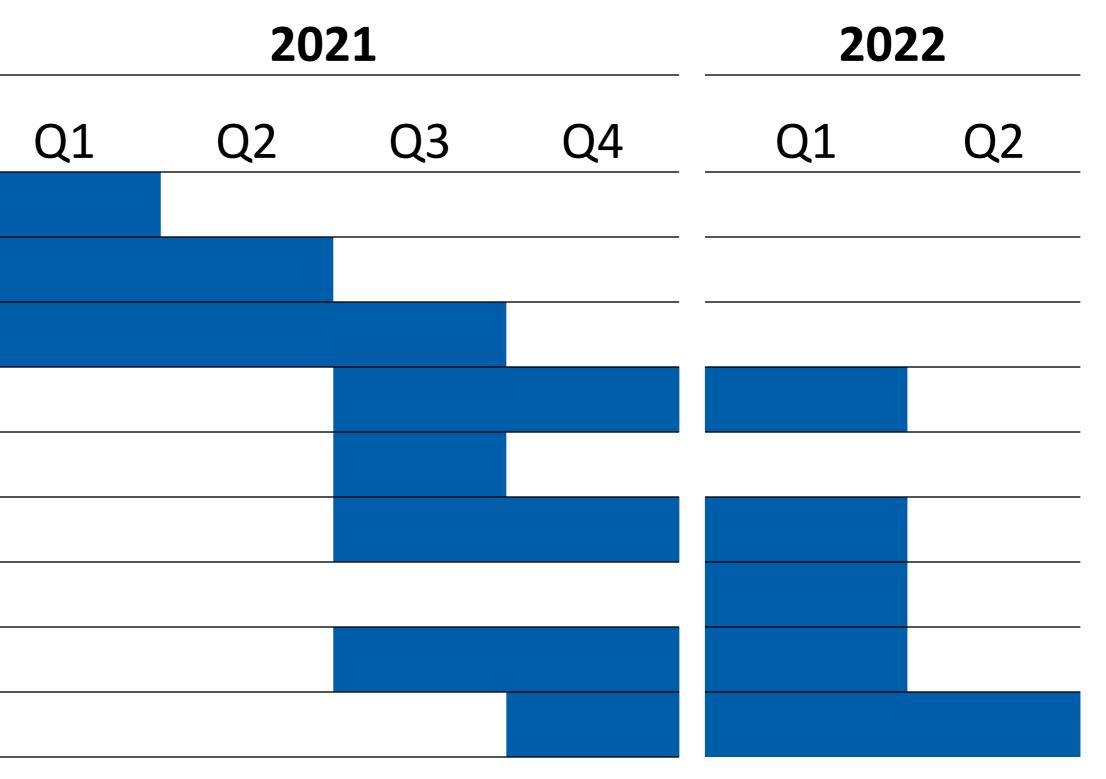


Timeline

| | Q3 | Q4 | |
|-----------------------|----|----|--|
| Data Assessment | | | |
| Peer Research | | | |
| Sources & Methods | | | |
| Policymaker Review | | | |
| Data Management Plan | | | |
| Build Database | | | |
| Staff Training | | | |
| Dashboard Design | | | |
| Dashboard Development | | | |
| | | | |

2020









Questions or Thoughts

- Regional solicitation database really needs some better organization. Next Phase?
- Financial types of data & reporting.
- What other departments do this kind of data management? E.g., Metro Transit.
- Better incorporate people from contract services.
- Identify key staff within our planning group that interface with other departments and agencies.





