Why Transportation Management Center (TMC) Performance Dashboards are Needed

July 21, 2020

Publication: FHWA-HOP-20-032

TMC Pooled Fund Study (https://tmcpfs.ops.fhwa.dot.gov/)

Mike Tantillo
VHB
Principal Investigator
What is a TMC Performance Dashboard?

- A communication tool to display information in a user-friendly format.
  - Communicates status and performance of an operation within the TMC.
  - Communicates the benefits of traffic operations to various stakeholders.

- Can show real-time and/or historical information.

- Go-to source for quick summary information about a specific topic.
  - Links to more detailed information or other resources.
Types of TMC Performance Dashboards

- Planning Dashboards.
- Operations Dashboards.
- Reporting Dashboards.
- Maintenance Dashboards.
- Advanced Traveler Information Systems Dashboards.

© University of Maryland Center for Advanced Transportation Technology Laboratory.
Why are TMC Dashboards Needed?

• Process, manage, and display large amounts of data in a visual format.

• Customize information for different stakeholders.
  - Stakeholder groups expanding to include non-TMC staff.

• Assist with both short-term and long-term transportation decision-making.
  - Within the Department of Transportation (DOT).
  - Outside the DOT.

• Justify the benefits of TMCs.
TMC Performance Dashboards Project

• Research the current state of the practice for TMC Dashboards.

• Explain how to plan for a TMC Dashboard project.

• Explore current trends and practices in dashboard development.
For additional information:

Transportation Management Center Performance Dashboards Final Report
FHWA-HOP-20-032

TMC Pooled Fund Study:
https://tmcpfs.ops.fhwa.dot.gov