Why data governance?

Why, Arizona
From the 2019 AASHTO GIS–T State Survey
What are some data governance resources?
DATA GOVERNANCE RESOURCES
OF NOTE

**NCHRP Synthesis 508**: Data Management and Governance Practices
- [http://www.trb.org/NCHRP/Blurbs/176005.aspx](http://www.trb.org/NCHRP/Blurbs/176005.aspx)

**TRB E–Circular 196**: Improving Safety Data Programs Through Data Governance and Data Business Planning
- [http://www.trb.org/Main/Blurbs/172446.aspx](http://www.trb.org/Main/Blurbs/172446.aspx)

ROADWAY DATA IMPROVEMENT PROGRAM (RDIP) TECHNICAL ASSISTANCE


Key Technical Assistance Areas

- Roadway Data Collection and Technical Standards
- Data Analysis Tools and Uses
  - Data Sharing and Integration
- Data Management and Governance
  - Developing and Implementing Safety Data Business Plans
  - Stuart Thompson (stuart.thompson@dot.gov)

Additional examples of data governance efforts
TPM TOOLBOX

Transportation Performance Management Toolbox

- Office of Stewardship, Oversight and Management, Susanna Hughes-Reck (susanna.hughesreck@dot.gov), https://www.tpmtools.org/

- Guidebook and Assessment Tool
  - Component C. Data Management Assessment
  - Component D. Data Usability and Analysis Assessment
FHWA Office of Preconstruction, Construction and Pavements

- Thomas Van (Thomas.van@dot.gov),

State Data Quality Management Program

- Defines the acceptable level of data quality
- Describes how the data collection process will ensure this level of quality

  - Addresses critical areas where errors can occur
    - Data collection equipment calibration and certification;
    - Certification process for persons performing manual data collection;
    - Data quality control measures to be conducted before data collection begins and periodically during the data collection program;
    - Data sampling, review and checking processes; and
    - Error resolution procedures and data acceptance criteria
- Required as part of TPM PM2 (System Performance)
HPMS

FHWA Office of Highway Policy Information
- Chris Allen (chris.allen@dot.gov),
  https://www.fhwa.dot.gov/policyinformation/hpms.cfm

Highway Performance Monitoring System
- National level
- Includes data
  - Extent
  - Condition
  - Performance
  - Use
  - Operating characteristics
Why does FHWA care?
FHWA FY 2019-2022 STRATEGIC PLAN

Mission: Enable and empower the strengthening of a world-class highway system that promotes safety, mobility, and economic growth, while enhancing the quality of life of all Americans.

Strategic Objective #1: Save lives by expanding the use of data-driven systemic safety management systems and increasing the adoption of proven safety solutions by all road owners.

Strategic Objective #2: Improve program and project decision-making by using a data-driven approach, asset management principles, and a performance-based program that lead to better conditions and more efficient operations.

DATA IS IMPORTANT

U.S. Congress

HPMS
NTD
NBI
DATA IS IMPORTANT
State DOT Data → FHWA Information → U.S. Congress Decisions
What are State DOTs doing in data governance?
TODAY’S AGENDA

Connecticut
- Mario Damiata,
- RDIP Project Coordinator
- UCONN Transportation Safety Research Center

Ohio DOT
- Ian Kidner,
- Section Manager,
- Transportation Information Management Administration

Questions & Answers
WHAT TO LISTEN OUT FOR

Why data governance?
What are the benefits of data governance?
What are the challenges in implementing data governance?
What are some lessons learned, tips, and strategies for effective data governance?
For the audience – what are some key takeaways?