Data Management Nationally

- Promote centralized data and data access for data throughout the nation
- Focus on DOT performance management and customer service
- Provide leadership and coordinate data governance across DOT’s and external business partners
- Disseminate data to a large customer base for data driven decisions
- Address programmatic needs and stakeholder concerns
- Congress has directed FHWA to improve the collection, management, and transparency of data (Section 1203 of the Moving Ahead for Progress in the 21st Century Act (MAP-21))
Data Quality/ Architecture

MATURITY MODEL FRAMEWORK – MOBILITY DATA EXAMPLE

Core Data Principles
- VALUABLE
- AVAILABLE
- RELIABLE
- AUTHORIZED
- CLEAR
- EFFICIENT
- ACCOUNTABLE

Source: AASHTO

Source: FHWA Data Business Plan – MDOT Pilot
Data Management in Maryland

Organizational Structure
- Innovative Planning and Performance Management Division
- Data Governance Division

Implementation of Data Governance Plan, a key foundation to data driven decision-making
- Identify authoritative data owners
- Establish data inventory
- Metadata Standards
- Data Dissemination Plan

Partnering in state-wide Open Data initiatives
- Socrata/OpenGov
- MDOT GIS Open Data Portal (Esri)
Importance of Data Management

- Key Data Issues
  - Consistent data for business needs and inquiries
  - Data Integrity
  - Data Integration across offices and divisions
  - Data for effective decision making
  - Standardization
  - Minimize data redundancy
  - Modernization of technology
  - Data Security

FHWA Data Governance Plan – Fact Sheet
Your confidence in your decision cannot exceed your confidence in the data you used to make it.
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