ITS Data Program Update

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PURPOSE OF THIS PRESENTATION

▪ Share the need for the ITS data program
▪ Share the vision for the ITS data program
▪ Invite feedback and participation going forward
“With increased connectivity among vehicles, organizations, systems, and people, unprecedented amounts of data are being generated. **New methods** to collect, transmit/transport, sort, store, share, aggregate, fuse, analyze, and apply these data will be needed for management and operations of transportation systems.”
TRADITIONAL DATA MANAGEMENT
MODULAR DATA MANAGEMENT

Application (Operations)
Application (Research)
Application (Third Party)

Secure Operational Data Environment

Data Source (Gov't)
Data Source (Private)
Data Source (Citizens)
By 2019, State DOTs and MPOs will have access to low-cost, scalable, interoperable data management tools that can ingest new data sources and feed new applications in ways that protect the privacy of users while enabling on-demand data sharing at regional and national levels. This toolset will be tested and deployed within at least one region and support a third party ecosystem of applications and research.
**APPROACH**

- Identify and develop toolset
  - Operational Data Environment
  - Sanitization Algorithm
  - Research Data Exchange
  - Basic Mobility Message
  - Basic Safety Message (and more) Emulator
  - Vehicle Data Translator (for road weather)

- Drive adoption
  - USDOT Projects (e.g., CV Pilots)
  - Nationwide
WEATHER DATA ENVIRONMENT
CALL TO ACTION

▪ Give feedback on our vision and approach
▪ Engage with the Research Data Exchange
  □ https://www.its-rde.net/
▪ Engage with the Weather Data Environment
  □ https://wxde.fhwa.dot.gov/
▪ Engage with the Operational Data Environment
▪ Use the BSM(+) emulator
▪ Help define the data world “beyond BSM”

Let’s get the conversation started!
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Thank You!