ITS Data Program Update

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for
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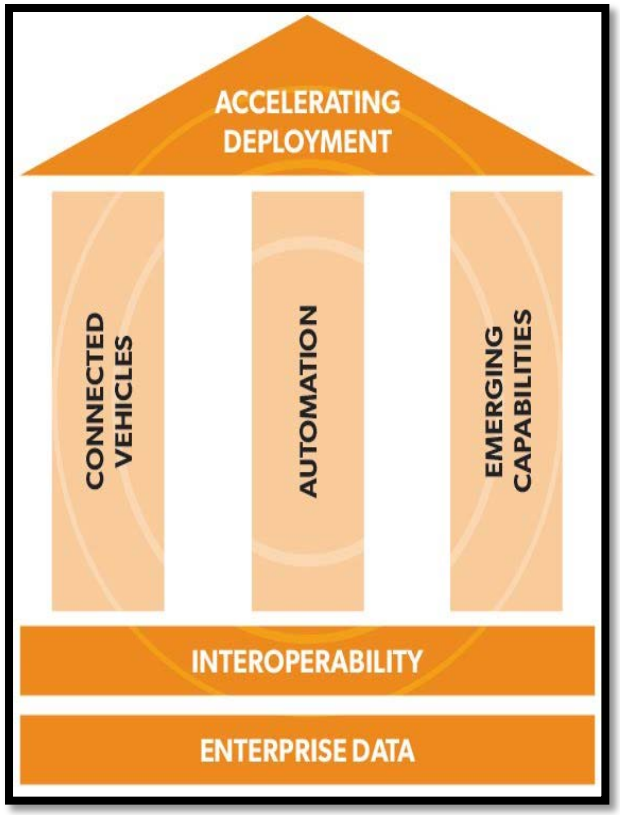
Purpose of this Presentation

- Share the need for the ITS data program
- Share the vision for the ITS data program
- Invite feedback and participation going forward

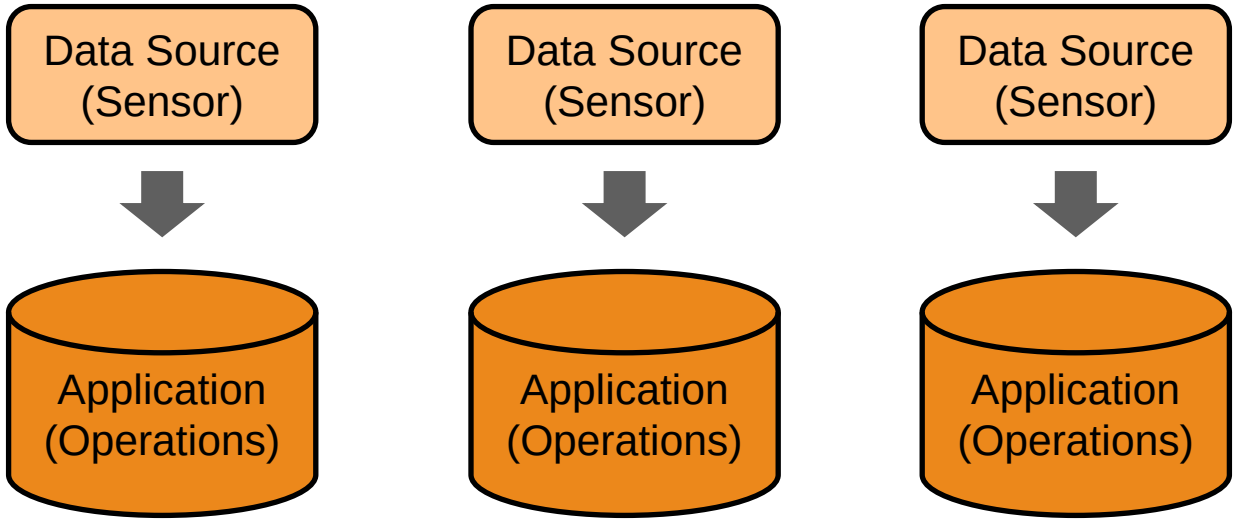
DATA: ITS STRATEGIC PLAN FOUNDATION

"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."

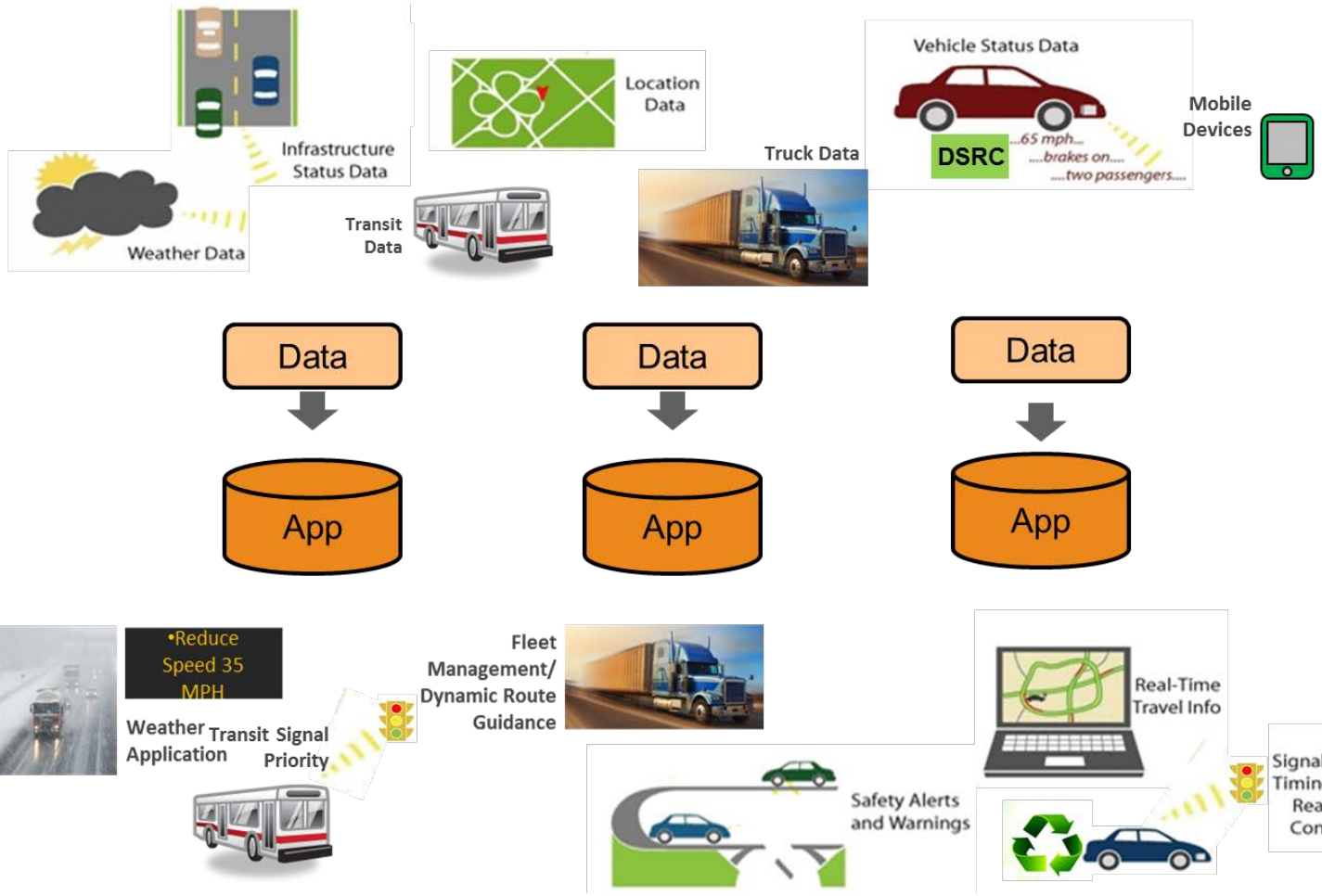


http://www.its.dot.gov/strategicplan/

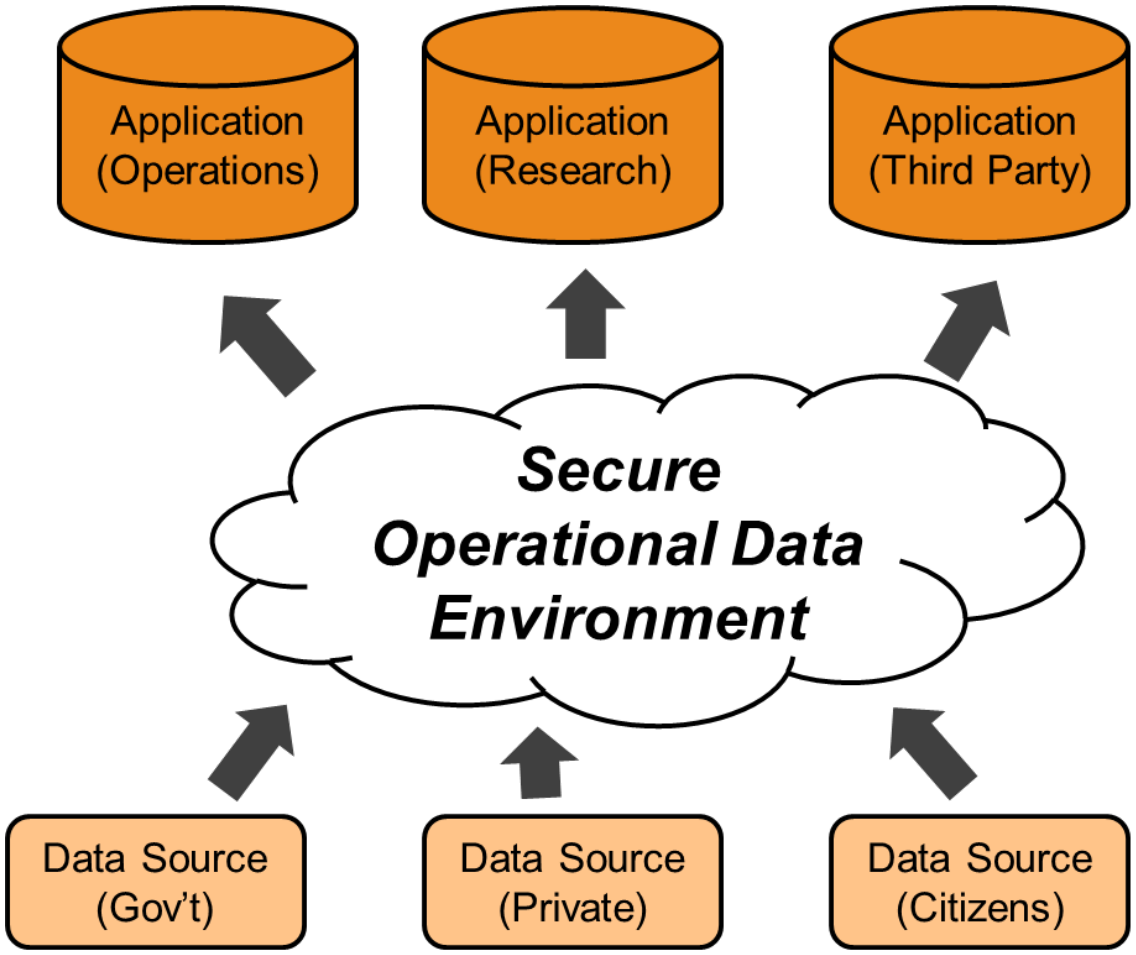
Traditional Data Management



GROWING DEMANDS



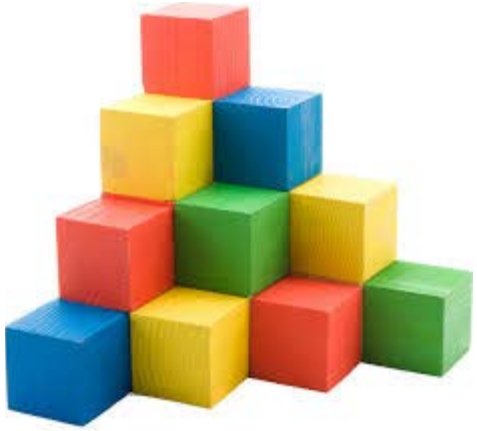
Modular Data Management



ITS Data Program Vision

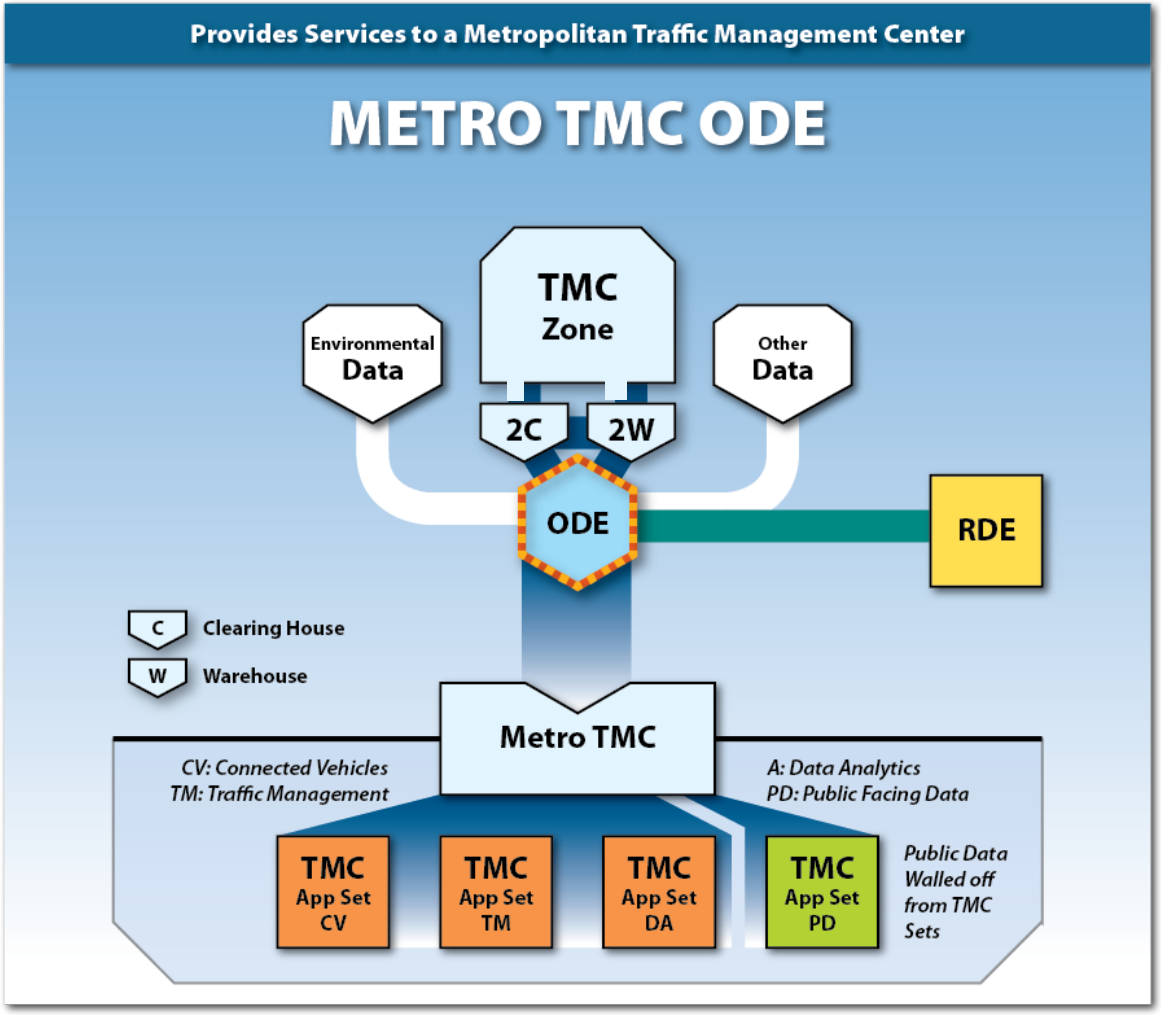
By 2019, State DOTs and MPOs will have access to low-cost, scalable, interoperable **data management tools** that can ingest new data sources and feed new applications in ways that **protect the privacy** of users while enabling on-demand **data sharing** at regional and national levels. This toolset will be tested and deployed within at least one region and support a **third party ecosystem** of applications and research.

Approach

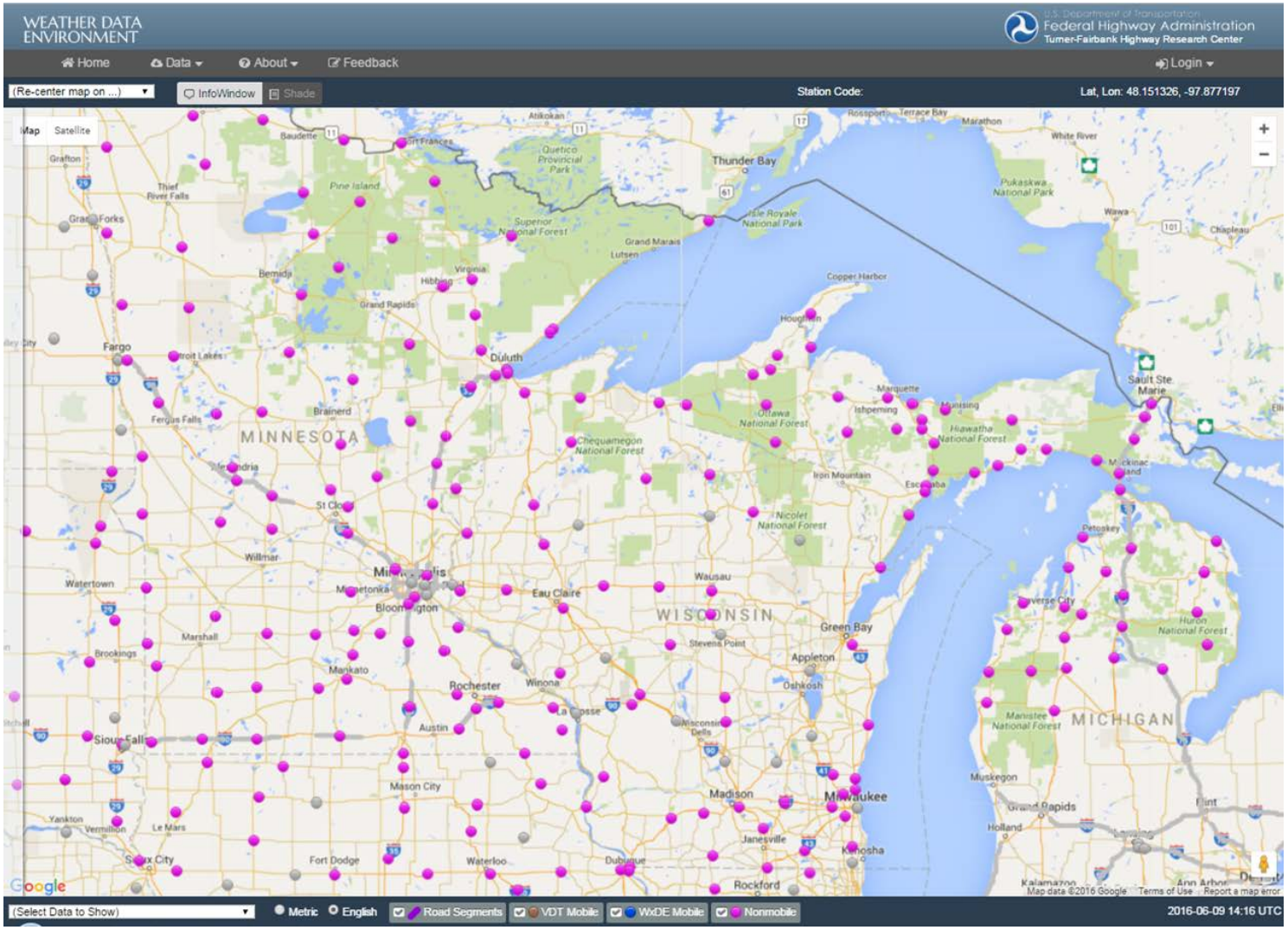


- Identify and develop toolset
  - Operational Data Environment
  - Sanitization Algorithm
  - Research Data Exchange
  - Basic Mobility Message
  - Basic Safety Message (and more) Emulator
  - Vehicle Data Translator (for road weather)
- Drive adoption
  - USDOT Projects (e.g., CV Pilots)
  - Nationwide

Data Management Toolset - Example



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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THINK