What's Next for TSMO & TETC?

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February 27, 2026

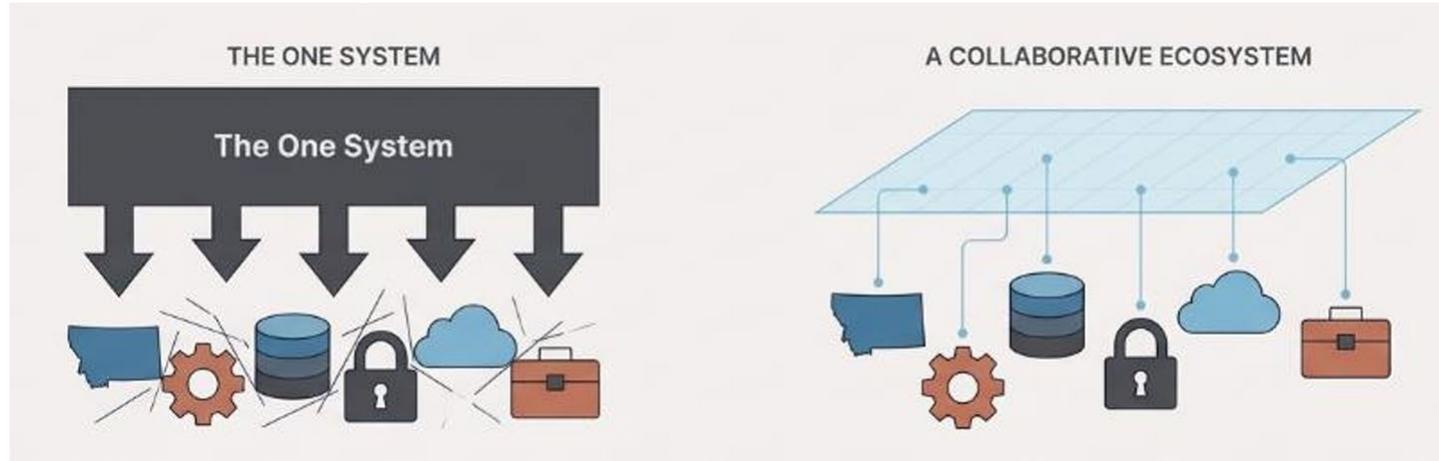THE EASTERN TRANSPORTATION COALITION
CONNECTING FOR SOLUTIONS

NODE/INODE

What is NODE/INODE?

» National Operations Digital Environment

» Interstate National Operations Digital Environment

- A connected, interoperable digital ecosystem for nationwide situational awareness and operational enhancement
- Shared resources – tools/analytics, data validation, system health monitoring, etc
- Regional/National traffic insights
- Linking federal, state, and local transportation systems

» Purpose

- Improve safety, mobility, reliability, and resilience
- Performance driven
- Enable situational awareness and coordinated response across cities, counties, states, regions

A New Way to Collaborate

» States maintain ownership of their systems
- No federal repository
- States remain the authoritative source and operators of their systems
- Can continue to invest in the technologies and tools they need

» Supports standards coexistence
- There is no single magical standard – there will always be a mix

» Leverages innovation from private sector and academia
- A monolithic system stifles market-driven solutions

The Challenges

» Discovery
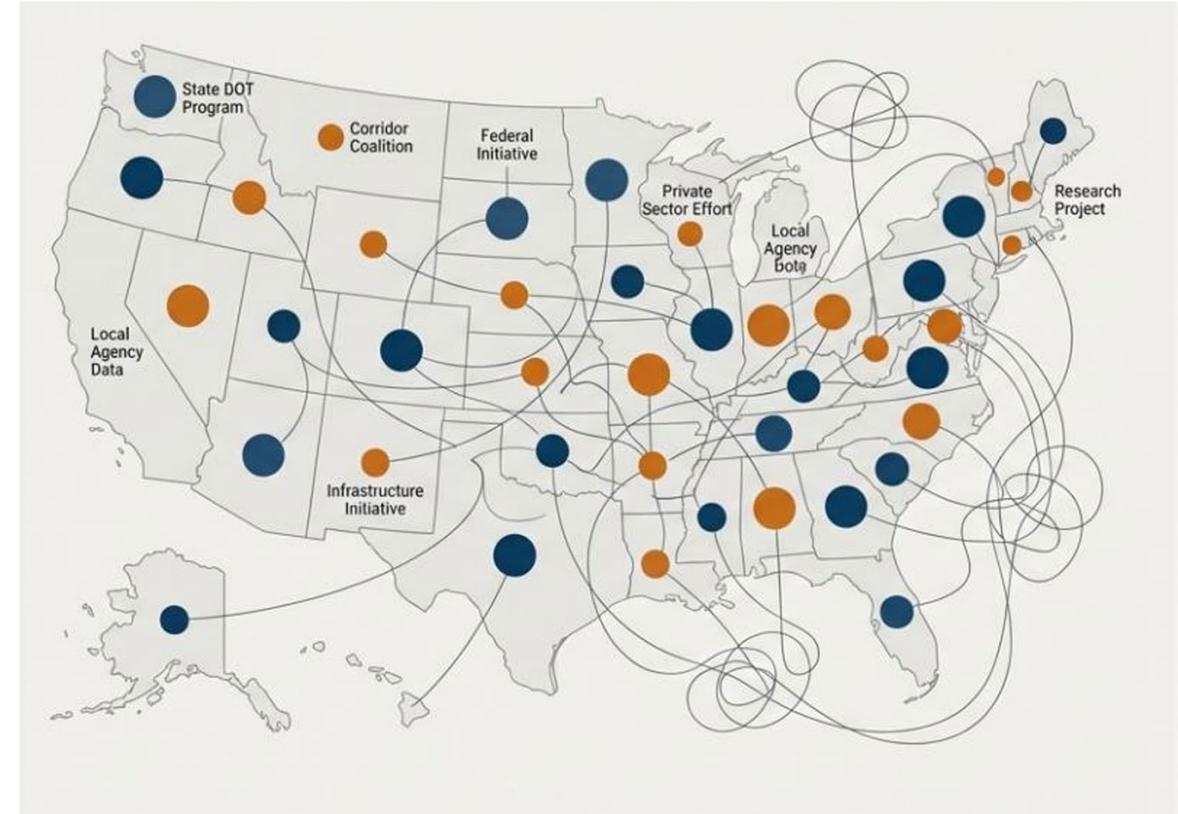 • Finding relevant data across thousands of jurisdictions and vendors is hard

» Trust
  • No consistent way to assess data quality or standards compliance before committing resources
  • Privacy concerns with CV data

» Scalability
  • Service providers often have to build custom integrations for every customer

» Innovation
  • Good innovation stays siloed instead of benefitting the greater community

Clarifying Scope

NODE IS...	NODE IS NOT...
✓ A collaborative platform	x A command-and-control system to rule them all
✓ A set of shared utilities (e.g., data validation)	x A replacement for existing tools or systems
✓ An enabler of data and tool marketplaces	x A creator of new bureaucracies
✓ A federated framework where you can control your data	x A central database that holds all data
✓ State led, federally supported, and industry inclusive	x A top-down federal mandate or a federally owned product

GOAL: Accelerate Scaling

National Transportation Data Infrastructure (TDI)

» Being led by ITS America

» Vision

- A modernized transportation ecosystem that seamlessly integrates physical and digital assets to deliver safe, efficient, and connected mobility through reliable and interoperable data — empowering informed decision-making, real-time operations, proactive management, and continuous innovation across the entire system lifecycle.

» Strategy Components

- Modernizing the Transportation System through TDI
- Applying digital infrastructure to the real world
- System architecture
- Innovation acceleration roadmap

What would this mean for local DOTs?

» Operational Benefits
- Better incident detection and response
- Improved traffic signal timing and congestion management
- Access to regional and national traffic insights

» Resource Efficiency
- Shared tools – reduce duplication of systems
- Data-driven decisions improve ROI
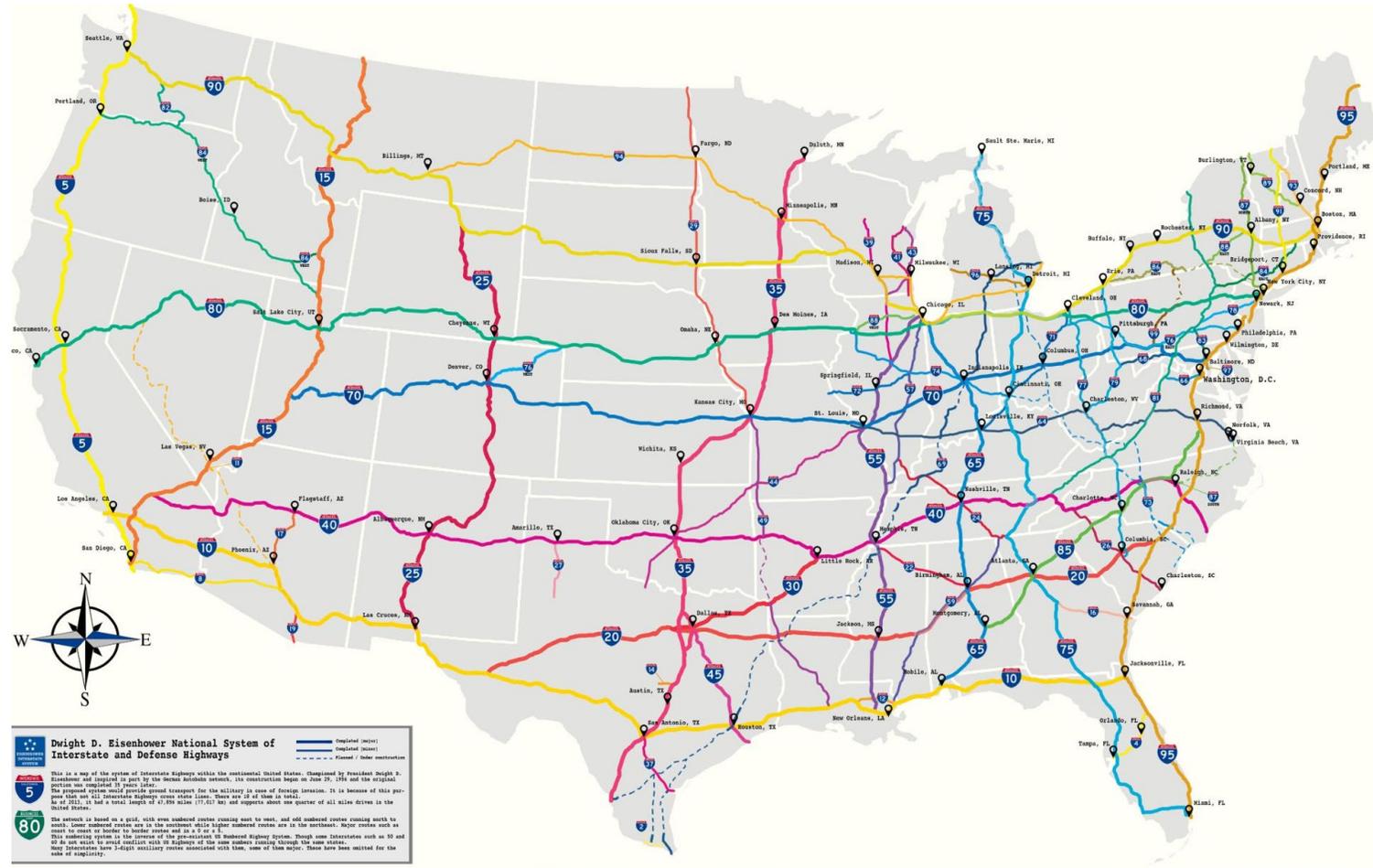- Supports smaller agencies with limited IT/ITS staff

» Enhanced Coordination
- Improved communication/collaboration with neighboring jurisdictions
- Better integration with state DOTs and emergency responders

» Potential federal investment!

Capitalize on Corridors & Coalitions

Why TETC?

Coalition = CLUSTER of Interstate Corridors

34% of US interstate miles

42% of national annual VMT

49 out of top 100 truck bottlenecks

42% US gas tax collected

46% of all US jobs

25 out of top 50 most-congested metros

28 Major Seaports

3rd Largest Economy in the World

30+ years of multi-state collaboration

Mileage-Based User Fee Pilot

MBUF Pilot

» https://tetcoalitionmbuf.org/

» To enroll in the pilot...

Experience MBUF Firsthand

Join Our Exploratory MBUF Pilot!

- FREE to participate
- Monthly mock statements comparing MBUF to gas taxes or EV fees
- Strict privacy and data protections
- Hands-on experience to understand how MBUF works

THE EASTERN TRANSPORTATION COALITION — MBUF WORK

Transurban

Questions?

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