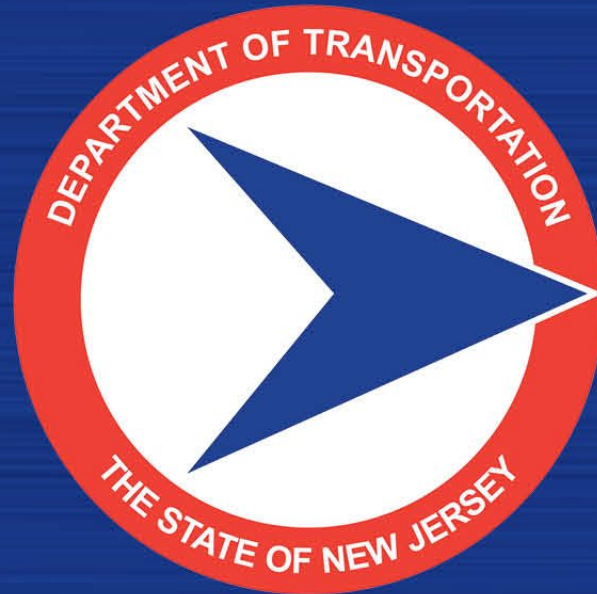


CIA Team: Mobility Planning & Research



Presented by: Vandana Mathur
August 12th, 2026

NEW JERSEY DEPARTMENT OF TRANSPORTATION



EDC-8 INITIATIVE

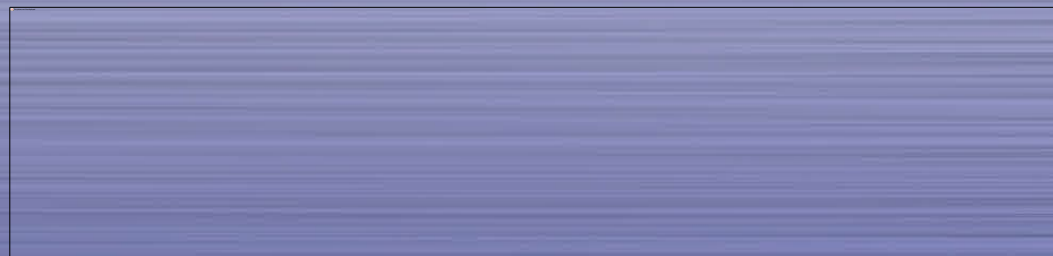
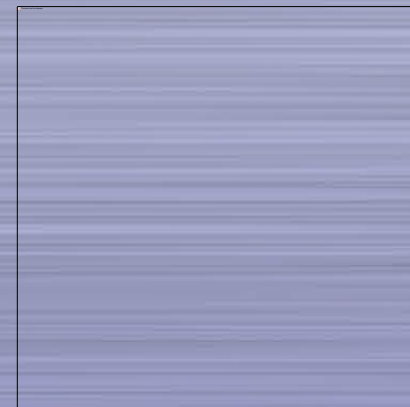
CONNECTED CORRIDORS

Smart Belt Coalition



Member Agencies

- Key partners include:
 - State and Local Governments
 - National and International Organizations
 - Interstate Corridor Coalitions
 - Intra-departmental US DOT Partners



DriveOhio



University Partners

Carnegie
Mellon
University

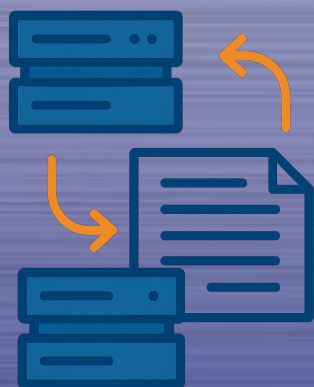
Kettering
UNIVERSITY





Connected Corridors Introduction

- The National Highway System keeps our economy moving, suppose safety, and enables daily travel. Yet both planned activities (work zones, events) and unplanned disruptions (crashes, weather) interrupt operations. To manage these effectively, transportation workers and travelers need accurate, real-time information. but today, that's hard to achieve.
- The **Connected Corridors Initiative** tackles challenges across states by cultivating a coordinated, shared approach that incorporates:



**RELIABLE
DATA SHARING**



**SCALABLE
SERVICES**



**COMMON
QUALITY
STANDARDS**



Connected Corridors

Current Issues

1. Information spread across too many separate data sources
2. No shared standards for data quality
3. Service providers have built custom systems for each agency, making scaling difficult
4. Agency rules slow adoption of shared, subscription-based services
5. Many tools cannot connect or interoperate
6. New solutions often stay local instead of scaling nationwide



Key Focus Areas

- Collaboration with industry leaders and research institutions.
- Data exchange standards
- Creation of guidelines for ensuring compatibility between different AV and CV systems.
- Development of common APIs and interfaces.
- Testing interoperability in real-world scenarios.
- Advocacy for the expansion of high-speed fiber networks.
- Collaboration with telecom providers to enhance broadband coverage.
- Research into the impact of improved connectivity on AV and CV performance.
- Establishment of uniform data collection and sharing standards.
- Development of privacy and security protocols for AV and CV data.
- Collaboration with standards organizations (e.g., ISO, SAE).



Connected Corridors Initiative

What Connected Corridors Initiative Will Do?

1. Smart Belt Coalition Website
2. Promote a coordinated, shared approach without replacing or merging existing systems
3. Support community-driven data standards and common data governance
4. Improve interoperability so systems can “speak the same language”
5. Encourage states and local agencies to publish standardized, trusted data feeds
6. Enable data exchange solutions to coordinate transportation decisions at digital speed
7. Break down jurisdictional barriers and build nationwide situational awareness



A Shared Approach to Situational Awareness

- The power of data exchange can help navigate jurisdictional barriers to operations intelligence.
- Data exchange is leveraged through:
 - Communicating on work zone activity through the **Connected Work Zone (CWZ)** Standard.
 - Similar data specifications targeting incidents, weather alerts, and planned special events.
 - Encouraging state and local level agencies to publish data corresponding to standards and specifications.
 - Allowing data exchange solutions to coordinate management decisions among agencies at digital speed.



Benefits



Increased Safety: Agencies get a clearer view of highway conditions, supporting improved traveler information and work zone data.



Innovation: Shared, standard data better supports emerging technologies like V2X, as well as other automated and AI-related solutions.



Economic Value: Shared data and services allow agencies to pool resources to develop shared solutions.

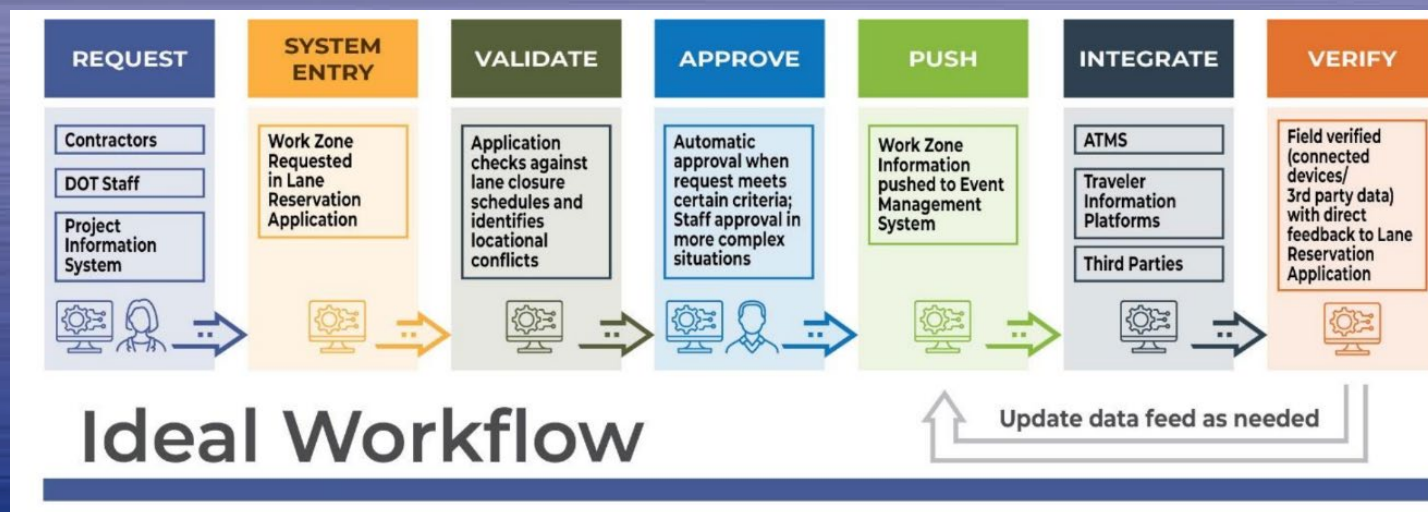


Operational Efficiency: Exchanges help agencies move away from slow, manual work through automation.



SBC Collaboration

- SBC provides a central forum for agencies and partners to exchange ideas, lessons learned, and deployment strategies
- Promotes common data standards and interoperability
- Supports CAV deployment through coordination on data exchange standards and implementation approaches
- Provides a centralized website and resource hub for planning documents and technical resources





Benefits for Regional Connected Corridors

- One location for transportation information and collaboration
- Common standards for work zone, traveler information, and connected vehicle data
- Cross-state or inter-state coordination on corridor operations
- Shared lessons learned and technical resources
- Partnerships with universities and industry innovators
- Foundation for future multi-state connected corridor projects and grants



Opportunities for NJDOT

- Connected Corridors provides NJDOT with an opportunity to maximize existing investments in CVs, traveler information systems, and transportation operations by improving data sharing, interoperability, and regional coordination.
- NJDOT can leveraging Connected Corridors and SBC Collaboration by:
 - Expanding the use of standardized work zone data sharing.
 - Enhancing cross-border coordination with surrounding states.
 - Strengthening traveler information services.



How NJDOT plans to Gather Data

Connected Corridors Data Sources

- Connected Vehicles
- Autonomous vehicles



Connected Vehicles (CV)

- Implementation of Vehicle-to-Everything (V2X) communication protocols.
- Enhancement of infrastructure to support CV technologies.
- Data exchange standards for CV systems.





Autonomous Vehicles (AV)

- Development of AV technology standards.
- Testing and validation frameworks for AV systems.
- Collaboration with industry leaders and research institutions.





Thank You!

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