



# NEW JERSEY STATE TRANSPORTATION INNOVATION COUNCIL

[www.NJDOTtechtransfer.net/NJ-STIC](http://www.NJDOTtechtransfer.net/NJ-STIC)

3<sup>rd</sup> Triannual Meeting  
December 18, 2024  
10:00am – 12:00pm



# WELCOME

## Eric Powers

Assistant Commissioner

NJDOT Statewide Planning, Safety & Capital Investment



# FEATURE PRESENTATION

## Safe System Approach in New Jersey

Jeevanjot Singh

*Section Chief*

NJDOT Safety and Data Development



# FHWA UPDATES



Christopher Paige

Innovation Coordinator & Community Planner  
FHWA, NJ Division Office

# FHWA Updates

- **Progress Reporting** - Thank you!
- **February 2025** – EDC-8 "Call for Ideas." This call for ideas period will run through **February 4, 2025**. Ideas should be sent to [EDCsuggestions@dot.gov](mailto:EDCsuggestions@dot.gov)
- **FY25 STIC Incentive Funding Requests** opened on October 1, 2024, and closes on July 1, 2025,



# STIC Incentive Applications

For more information on the STIC Incentive Program, please visit <http://www.fhwa.dot.gov/stic>

- **Overview of Application Process**

- Describe proposed work, project schedule and budget
- Comply with the program requirements
- Each STIC has up to \$125,000 per year
- Please send applications to Giri and I by **7/1/25**  
([Giri.Venkiteela@dot.nj.gov](mailto:Giri.Venkiteela@dot.nj.gov)) ([christopher.paige@dot.gov](mailto:christopher.paige@dot.gov))



## CIA TEAM

### SAFETY

NJDOT – Dan LiSanti  
FHWA – Alan Huff

## CIA TEAM

### PLANNING & ENVIRONMENT

NJDOT – Sudhir Joshi  
FHWA – Sutapa Bandyopadhyay

## CIA TEAM

### INFRASTRUCTURE PRESERVATION

NJDOT – Shivani Patel  
FHWA – Nunzio Merla

## CIA TEAM

### MOBILITY & OPERATIONS

NJDOT – Vandana Mathur  
FHWA – Ek Phomsavath

## CIA TEAM

### ORGANIZATIONAL SUPPORT & IMPROVEMENT

NJDOT – Kristal Walker  
FHWA – Christopher Paige



CIA TEAM

**SAFETY**

NJDOT – Dan LiSanti

FHWA – Alan Huff

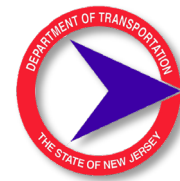




Task	Status
Literature review of relationship between quality of streetlighting on pedestrian safety, fatalities, and serious injuries.	Complete
Summary of best practices and recommendations in design guidance for pedestrian-scale lighting, defining specifications of minimum and maximum luminance, illuminance, color-corrected temperature, and fixture spacing, positioning, and height.	Drafted
Draft Pedestrian Scale Lighting resource content outline.	Complete
Final Pedestrian Scale Lighting resource synthesizing best practices in the types of lighting, luminaire placement, and ways to reduce fatalities and serious injuries.	In progress



# PEDESTRIAN SCALE LIGHTING RESEARCH & RESOURCE



**RUTGERS-NEW BRUNSWICK**  
Edward J. Bloustein School  
of Planning and Public Policy  
Alan M. Voorhees Transportation Center





# NIGHTTIME VISIBILITY FOR SAFETY

- ▶ Developing traffic signal pole and mast arm details for signalized intersection installations
- ▶ Includes backplates with retroreflective tape on signal indications



CIA TEAM

**PLANNING &  
ENVIRONMENT**

NJDOT – Sushant Darji

FHWA – Sutapa  
Bandyopadhyay



## Key Points:

- ❖ **Purpose of the Update:** Provide an overview of ongoing and planned initiatives in NJDOT's Core Innovation Areas related to Planning and Environment.
- ❖ **Stakeholders Involved:** Collaboration with MPOs, FHWA, NJ Transit, and Port Authority of NY/NJ to support state decarbonization goals and improve transportation infrastructure.



- ❖ **Objective:** Ensure alignment with carbon reduction and environmental goals and continue to foster innovation in sustainable transportation planning.



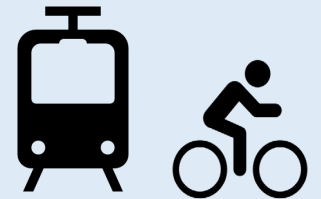
## ❖ Electrification and Zero-Emission Vehicles

- Expand EV infrastructure to support state fleet and public access to charging stations.
- Partner with stakeholders to ensure widespread adoption of electric and alternative fuel vehicles.



## ❖ Mass Transit and Active Transportation Promotion

- Encourage the use of public transportation and active modes (cycling, walking).
- Expand services and infrastructure to reduce Single Occupancy Vehicle (SOV) use and mitigate congestion.



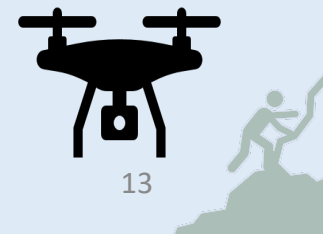
## ❖ Smart Traffic Management and Efficient Roadway Operations

- Implementation of smart traffic systems to optimize flow and reduce congestion, cutting down on emissions.



## ❖ Sustainable Construction and Maintenance Practices

- Use of recycled materials and low-emission construction equipment to support greener road projects.



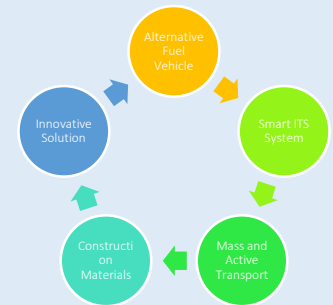
## ❖ GHG Emissions Reduction Target

- NJDOT's contribution to New Jersey's carbon reduction goals.
- Focus on lowering CO2 emissions through transportation system improvements, including the electrification of transit fleets.



## ❖ Carbon Reduction Strategies (CRS)

- Inclusion of GHG impacts in the Statewide Transportation Improvement Program (STIP) for clear, data-driven project prioritization.
- CRP projects included in STIP with specific CO2 emission reduction targets.



## ❖ MPO and Stakeholder Coordination

- Ongoing collaboration with MPOs, NJ Transit, and Port Authority of NY/NJ to ensure strategies align with regional goals.
- Data sharing to track progress toward emissions reduction.



## ❖ **Project Ranking & Scoring Criteria for GHG Reduction**

- Development and implementation of ranking criteria for carbon reduction projects based on GHG emissions impacts.
- Project prioritization to ensure alignment with state and regional goals.

## ❖ **Ongoing Collaboration**

- Continuous engagement with FHWA, MPOs, NJ Transit, and Port Authority of NY/NJ to refine strategies and implement effective solutions.
- Regular updates and data sharing to ensure transparency and successful outcomes.

## ❖ **Funding and Performance Tracking**

- Ensure CMAQ and other funding sources are effectively used to meet 4-year GHG reduction targets.
- Implement regular performance tracking and evaluation to adjust strategies as needed.





## Conclusion & Call to Action



- ❖ Recap of the update on **Core Innovation Areas** and **Planning & Environmental** efforts.
- ❖ Emphasize the importance of **continued collaboration** and **data sharing** to achieve NJDOT's **decarbonization goals**.
- ❖ **Next steps:** Encourage stakeholder engagement and active participation in ongoing and upcoming projects.







**Thank you all for your participation today.**

If you have any further questions or need additional information, please feel free to reach out to me.

Sushant Darji – [Sushant.Darji@dot.nj.gov](mailto:Sushant.Darji@dot.nj.gov)

Simon Nwachukwu – [Simon.Nwachukwu@dot.nj.gov](mailto:Simon.Nwachukwu@dot.nj.gov)





CIA TEAM

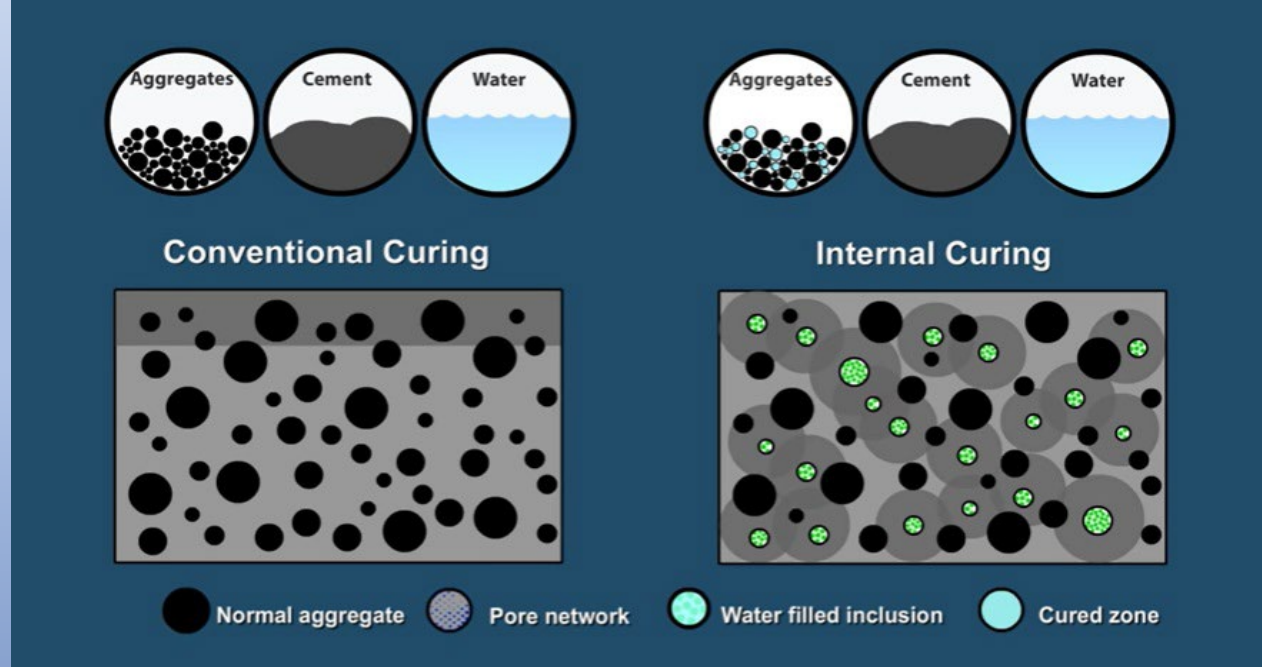
**INFRASTRUCTURE  
PRESERVATION**

NJDOT – Shivani Patel

FHWA – Nunzio Merla



# EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC<sup>2</sup>)



## Purpose:

To implement the use of internally cured concrete to reduce shrinkage cracking and achieve long-term performance in concrete bridges, roads and repairs.



# EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC<sup>2</sup>)

## Status:

- Applied for and awarded STIC Incentive program grant of \$125,000

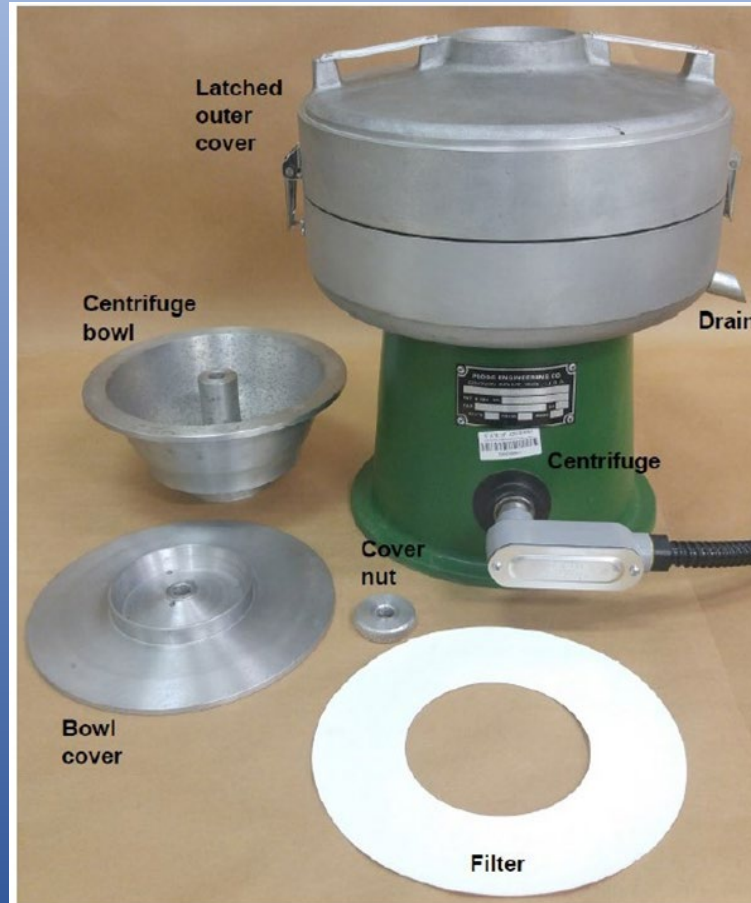


Figure 1—Centrifuge Apparatus (Source: LTRC/DOTD)



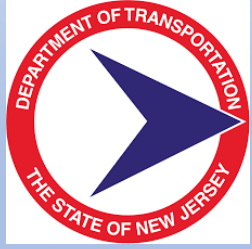


# EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC<sup>2</sup>)

## Status:

- First NJDOT internally cured HPC bridge deck project awarded in October 2024
  - N. Munn Ave, Bridge over Rt. 280
- Construction scheduled to begin in Fall 2026





# EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC<sup>2</sup>)

## Currently Working on:

- Preparing for the Final Design Submission of the candidate bridges
- Scoping projects for the candidate bridge list
- Coordinating the purchase of centrifuge apparatuses and other testing equipment

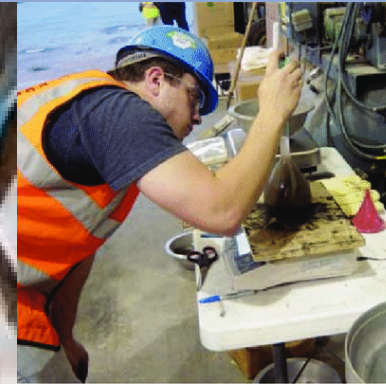




# EDC-7 Enhancing Performance with Internally Cured Concrete (EPIC<sup>2</sup>)

## Next Quarter:

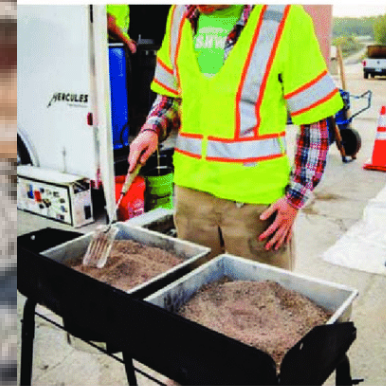
- Continue engagement with concrete suppliers
- Purchase testing equipment
- Update the HPIC Specifications



(a)



(b)



(c)



(d)

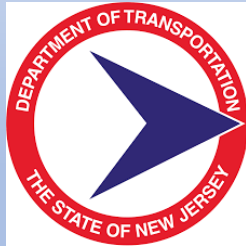


# Coming Soon!

- NJDOT will host EPIC<sup>2</sup> workshop in April 2025







# UPDATE on EDC-6 UHPC Innovation



- FHWA publication- “*Experiences from Early Implementations of UHPC Overlays*” released 12/2/24

## TECHNOTE



U.S. Department of Transportation  
Federal Highway Administration

FHWA Publication No.: FHWA-RC-24-0008

## Experiences from Early Implementations of UHPC Overlays

### Introduction

Ultra-high performance concrete (UHPC) overlays have been used since 2004 with the first implementation in the U.S. in 2016 [1]. UHPC overlays have been installed on more than 30 bridges in the U.S. as of 2023 [2] and more than 150 bridges worldwide as of 2020 [1]. The objective of this technical brief is to summarize some of the experiences of four different entities with their recent installation of UHPC overlays. Meetings were held with the Delaware River & Bay Authority (DRBA), Federal Lands Highway (FLH), New Jersey Department of Transportation (NJDOT), and Iowa Department of Transportation (Iowa DOT) to discuss their experiences with UHPC overlays including lessons learned and future recommendations.

This technical brief does not contain complete recommendations for all aspects of UHPC overlays. Specific recommendations for UHPC overlays are provided in FHWA-HRT-22-065 [1]. The information provided in this technical brief should be used to supplement the recommendations in FHWA-HRT-22-065.

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**FHWA Contact** — David Garber, (223) 278-3146, david.garber@dot.gov.

**Authors** — David Garber (FHWA), Rafic Helou (FHWA), Benjamin Graybeal (FHWA), and Justin Ocel (FHWA).

**Owner Participants** — For Delaware River & Bay Authority experience: Shekhar Scindia, Jen Farina, and Victor Mokienko. For Federal Lands Highway experience: Joseph Fabis and Mir Ali. For New Jersey DOT experience: Sameer Rabie and Jess Mendenhall. For Iowa experience: James Hauber (Iowa DOT), Jesse Peterson (Iowa DOT), Brian Keierleber (Buchanan County), Alex Davis (Buchanan County).

**Key Words** — ultra-high performance concrete (UHPC), UHPC overlays, bridge deck, rehabilitation, construction, lessons learned.





[https://www.fhwa.dot.gov/resourcecenter/teams/structures-geotechnical-hydraulics/UHPC\\_Overlays\\_TechNote.pdf](https://www.fhwa.dot.gov/resourcecenter/teams/structures-geotechnical-hydraulics/UHPC_Overlays_TechNote.pdf)



# EDC-7 Environmental Product Declarations (EPDs) for Sustainable Project Delivery



Summary of Environmental Product Declaration		Environmental Impacts 			
<b>Central Concrete</b>		<b>Impact name</b>	<b>Unit</b>	<b>Impact per m3</b>	<b>Impact per cyd</b>
Mix	340PG9Q1	Total primary energy consumption	MJ	2,491	1,906
San Jose Service Area		Concrete water use (batch)	m3	6.66E-2	5.10E-2
EF V2 Gen Use P4000 3" Line 50% SCM		Concrete water use (wash)	m3	8.56E-3	6.55E-3
<b>Performance Metrics</b> 		Global warming potential	kg CO2-eq	271	207
28-day compressive strength	4,000 psi	Ozone depletion	kg CFC-11-eq	5.40E-6	4.14E-6
Slump	4.0 in	Acidification	kg SO2-eq	2.26	1.73
		Eutrophication	kg N-eq	1.31E-1	1.00E-1
		Photochemical ozone creation	kg O3-eq	46.6	35.7

A sample EPD for a concrete mix design by Central Concrete Supply Co.  
Credit: Central Concrete Supply

## Purpose:

To identify and understand the environmental impacts from resource use, energy, and emissions in construction and consider alternatives using third party verified reports.



EDC-7  
Environmental  
Product  
Declarations  
(EPDs) for  
Sustainable  
Project Delivery

## Status:

- Coordinated with the New Jersey Asphalt Paving Association for list of BRBC mixture producers





EDC-7  
Environmental  
Product  
Declarations  
(EPDs) for  
Sustainable  
Project Delivery

## Currently Working on:

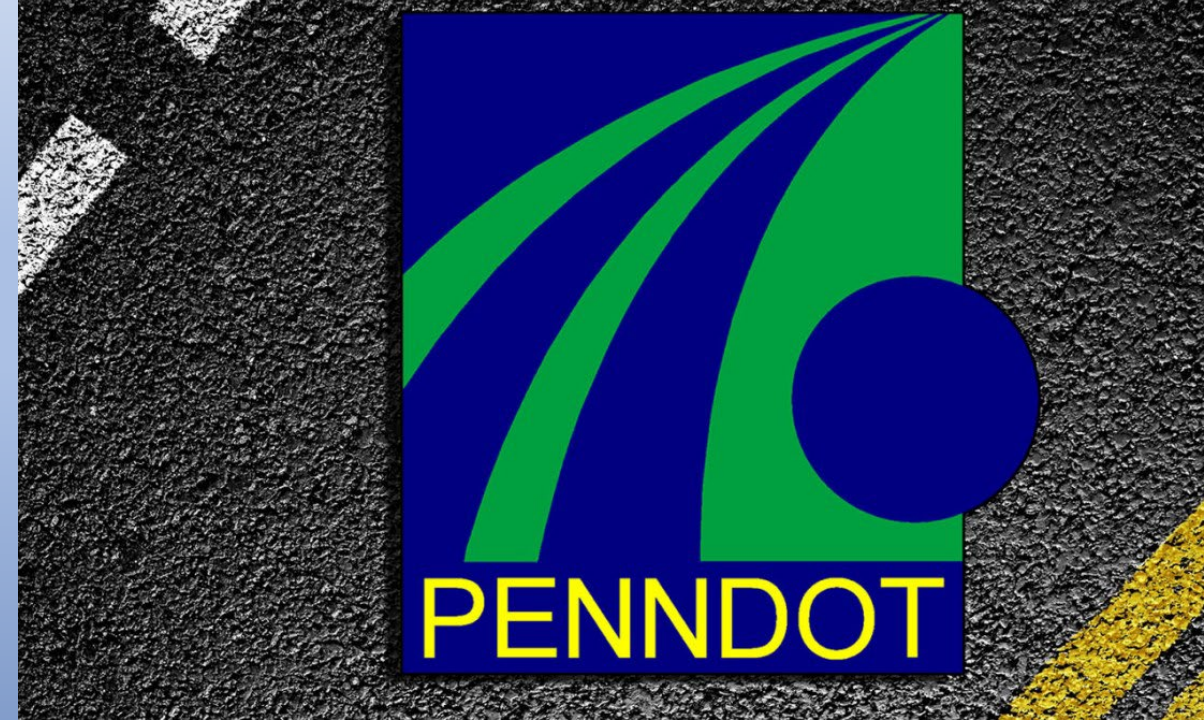
- Effort to create an EPD to produce BRBC mix asphalt



# Notable EPD Institutionalization Efforts

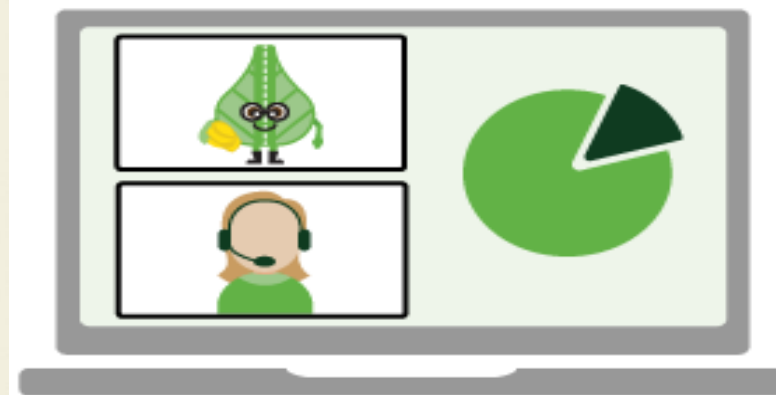
PennDOT-Goal to institutionalize by 2028 through partnership

DeIDOT-Goal to use a specification with incentives and disincentives





EDC-7  
Environmental  
Product  
Declarations  
(EPDs) for  
Sustainable  
Project Delivery



## Next Quarter:

Continue working on:

- State outreach and research efforts
- Tasks related to FHWA's Climate Challenge



CIA TEAM

**MOBILITY &  
OPERATIONS**

NJDOT – Vandana Mathur

FHWA – Ek Phomsavath

# EXPANSION OF WEATHER-SAVVY- COMPLETE!

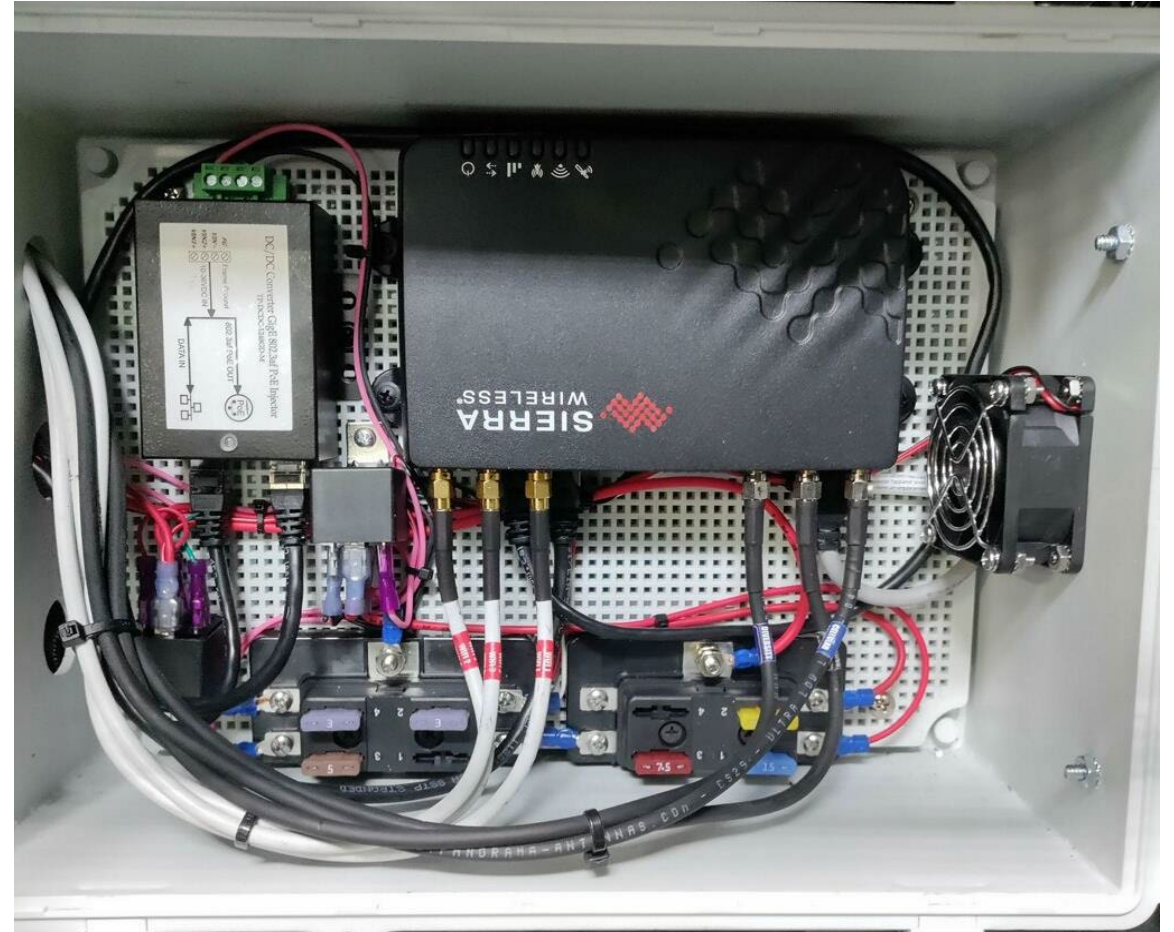
- Installations started in December 2023
- Expanded from 24 to 45 vehicles
- Increased the focus on plows- during a weather event these trucks stay on the road

Mobility		
North		South
2 IMRT		1 IMRT
3 SSP		3 SSP
Operations		
North	Central	South
7 Plows	8 Plows	10 Plows
6 Pickups	3 Pickups	2 Pickups



# WEATHER-SAVVY IMPROVEMENTS

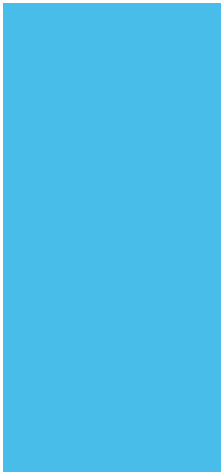
- Previously components were installed on the floor of the cab under the seats
- Components were susceptible to damage from water, dirt, misc. items in the cab and tampering
- Now components are installed in a junction box with a plexiglass lid





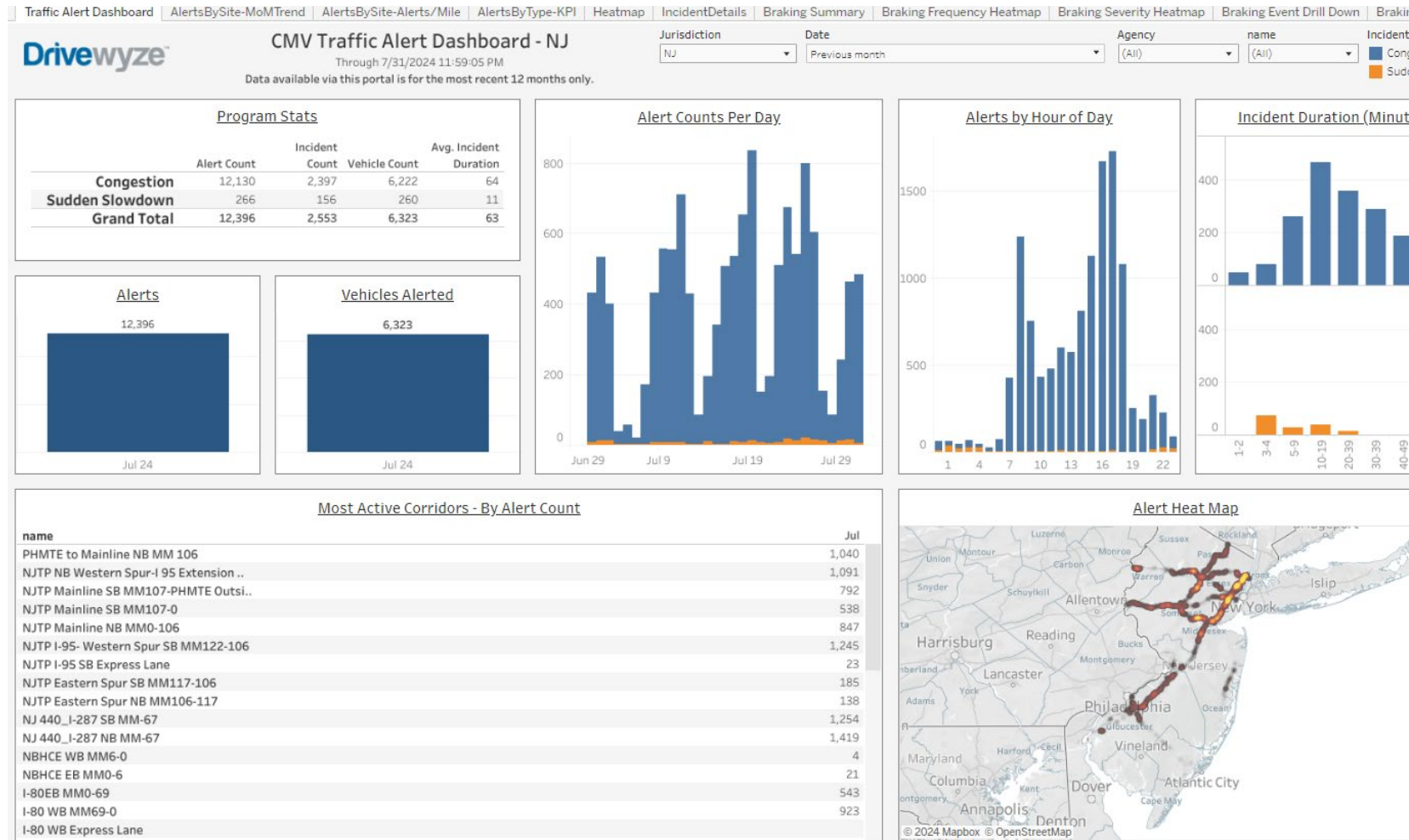
# TRUCK PARKING PILOT

- Started in 2021 at Harding
- Expanded to Carney's Point in the summer of 2023
- Data gathered from cameras, remote traffic microwave sensors, and in-pavement micro radar sensors (a.k.a., Pucks) is visible on the web portal
- Next steps
  - Install a portable DMS signs approx. 5 miles from Harding on I-287 and I-78 to alert truckers to the number of available spots
  - Potential future expansion to Knowlton in 2025



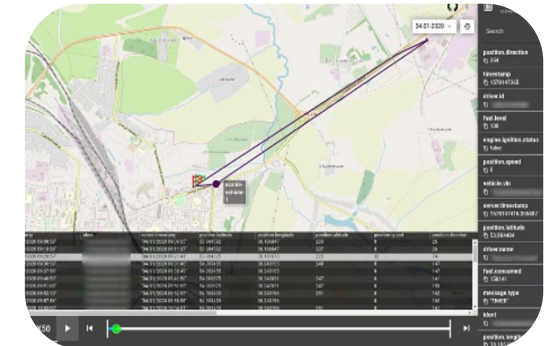
# DRIVEWYZE ALERTS

- Provides free safety alerts to commercial vehicle drivers
- Alerts show up directly on the driver's Electronic Logging Device (ELG)
- We can view when and where alerts were sent through the Tableau dashboard
- However, we wanted to verify the accuracy of the alerts





# OBJECTIVES & METHODOLOGY



## Alert Accuracy

The objective was to verify if Drivewyze accurately identified known static alert locations, ensuring drivers receive timely notifications.

## Real-time Environment

The system's ability to detect real-time environmental alerts, such as congestion and standstill traffic, was assessed.

## Testing Hours

Four days of testing were conducted during AM Peak Rush hours, between 6 AM and 10 AM, to capture the most challenging traffic conditions.

## Data Collection

GPS logging applications were used alongside Drivewyze to record precise location data and real-time traffic conditions

# EVALUATION PROCESS

**95%**

Notification Collection

**18/19 alerts received**

**1**

Missed Alert

- ✓ NJ DOT Truck Left Lane Restrictions Turnpike Ridgefield SB

I-95 SB [MP 70.5 ]

**Drivewyze™**

**0%**

Congestion Alerts

**25 congestion points (<10 mph) not flagged by Drivewyze**

**2**

Unexpected Alerts

- ✓ Drivewyze Site, Weigh Station, 2 Miles
- ✓ **GWB EXIT: H. HUD PKWY/9A, Passenger Cars Only**

I-287 North [MP 7.0]/I-95 [MP 71.8]

## Drivewyze Static Alerts

- ✓ **NO TRUCKS Left Lane**
- ✓ **Drivewyze Site, Weigh Station, 2 Miles**
- ✓ **Weight Limit 5 Tons, Along Hillcrest Rd**
- ✓ **GWB EXIT: H. HUD PKWY/9A, Passenger Cars Only**

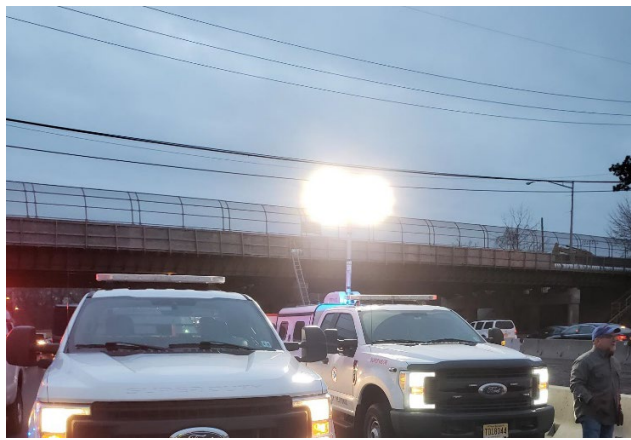


# DRIVEWYZE ACTIVITY

● Received Alert

● Congestion  
Zone

● Drivewyze™  
Alert Zone\*



## EDC-7: NEXT-GENERATION TIM - TECHNOLOGY FOR SAVINGS LIVES

### Deployment of TIM Technologies:

- Light towers are equipped on NJDOT Incident Management Response Trucks (IMRT) to provide lighting at incident scenes.
- Utilizing LED flares at incident scenes.

### Institutionalized Stage:

- Integrate activities into the NJDOT ITS/Traffic Operations work programs.
- Offer real-time alerts to truck drivers for slowdowns and congestion.
  - “No Trucks in Left Lane” alerts to avoid traffic congestion.

# Last But Not Least

NJDOT along with FHWA-NJ jointly submitted an article to the FHWA HQ (Accelerating Innovation Programs) in Washington, D.C. for consideration to be in the EDC newsletter (43,000 subscribers) for the EDC innovation spotlight.

It was under the category Shine a Spotlight on EDC Innovation Deployments in NJ

The title was

**NJDOT Deploys Advance Warning Messages for Truck Drivers**





# CIA TEAM

## **ORGANIZATIONAL SUPPORT & IMPROVEMENT**

NJDOT – Kristal Walker

FHWA – Chris Paige

# Implementation Plans

## Development Stage Updates:



- Funding was approved by FHWA at the end November 2024  
New plan is to facilitate an In-house process to hire a Consultant to start the Program

# Implementation Plans

## Development Stage Updates:

Contractor Compliance unit collaboration efforts continues:



- Working with the Office of Federal Contractor Compliance (OFCCP) on best practices
- Engaging with State Transportation Agencies with effective Workforce Development Programs
  - ✓ Webinars
  - ✓ OJT Projects

# Implementation Plans

## *Development Stage Updates:*



Updates

Contractor Compliance unit collaboration efforts continues :

- The last Construction Contracting Industry meeting was held on December 2, 2024. Topics discussed:
  - ✓ Unions & Apprenticeship Programs
  - ✓ Concerns rising of the increase of memberships due to aging market
  - ✓ Methodologies to increase membership: Spreading awareness to the technical advancement to the Industry
- The next scheduled Construction Contracting Industry meeting will be held on January 2025. Topics discussed:  
Now that funding has been established, we're hoping that the Unions will be at the table, not just Union representative and construction contractors.



*Thank you!*



Feature Presentation

# Safe System Approach in New Jersey

**Jeevanjot Singh**

Safety and Data Development



# Safe System Approach in New Jersey

Jeevanjot Singh

# Safe System Approach

Imagine our country  
as a place where  
*nobody* has to die  
from crashes.

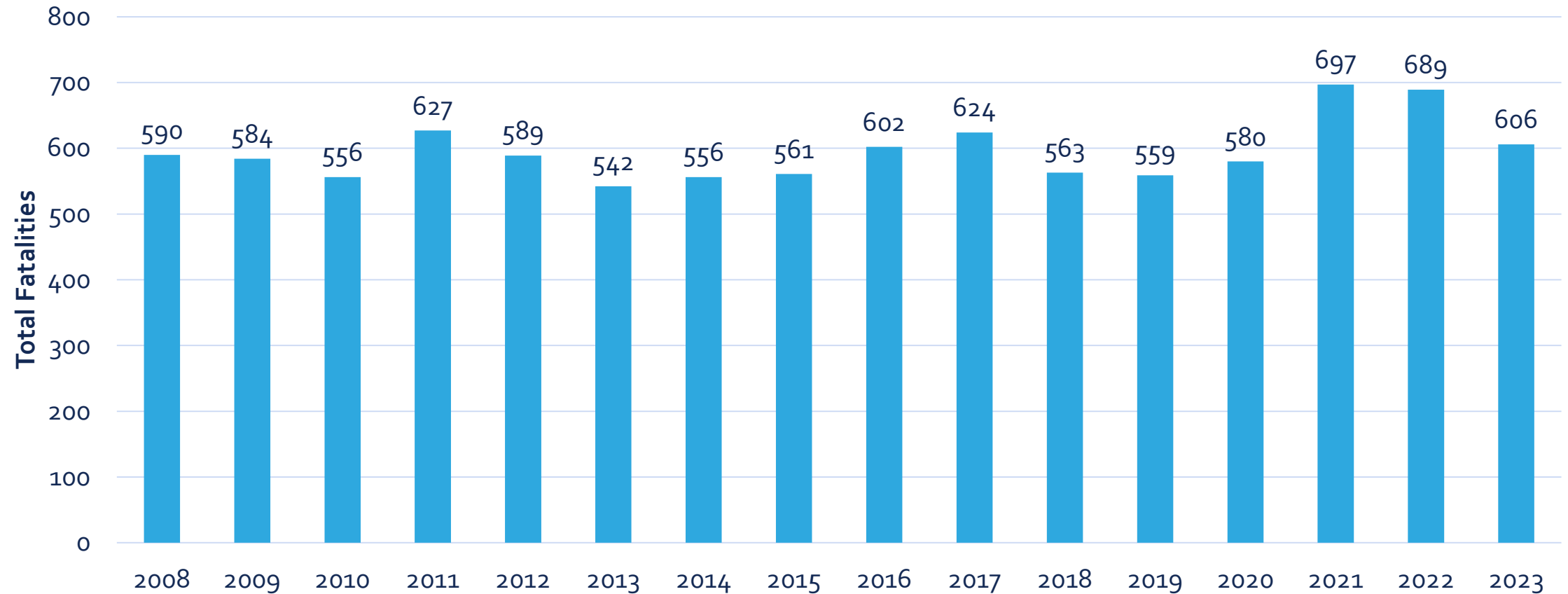






# Why do we need the SSA?

## New Jersey Fatalities | 2006-2023





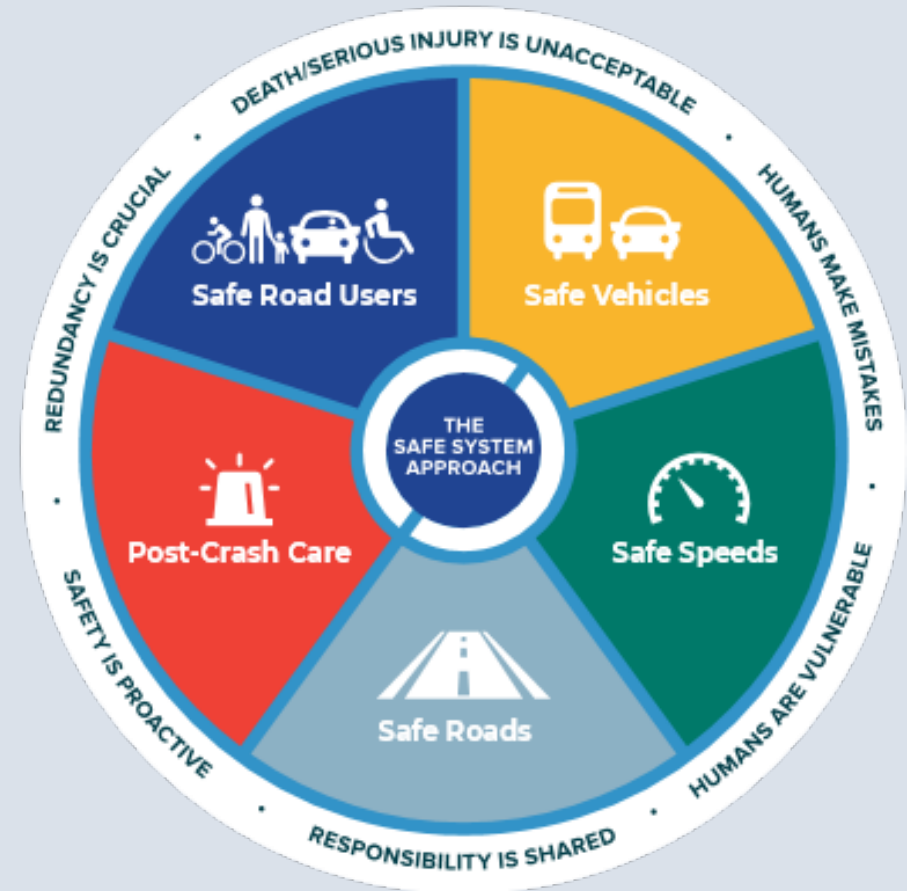
# 2025 Safety Targets

Performance Measures	2025 Annual Target
Number of fatalities	494
Rate of fatalities <sup>1</sup>	0.65
Number of serious injuries	2032.8
Rate of serious injuries <sup>1</sup>	2.66
Number of non-motorized fatalities & serious injuries	568

<sup>1</sup>Rate per 100,000 VMT

# What is a Safe System Approach (SSA)?

- SSA focuses on eliminating fatalities and serious injuries.
  - *2025 Safety Targets!*
- It is a paradigm shift of thinking about roadway safety.
- The SSA is an effective way to address and mitigate inherent risks.
- SSA is a continuum.



# The Six SSA Principles



# The Six SSA Principles



# The Six SSA Principles



# The Six SSA Principles



# The Six SSA Principles





# The Six SSA Principles

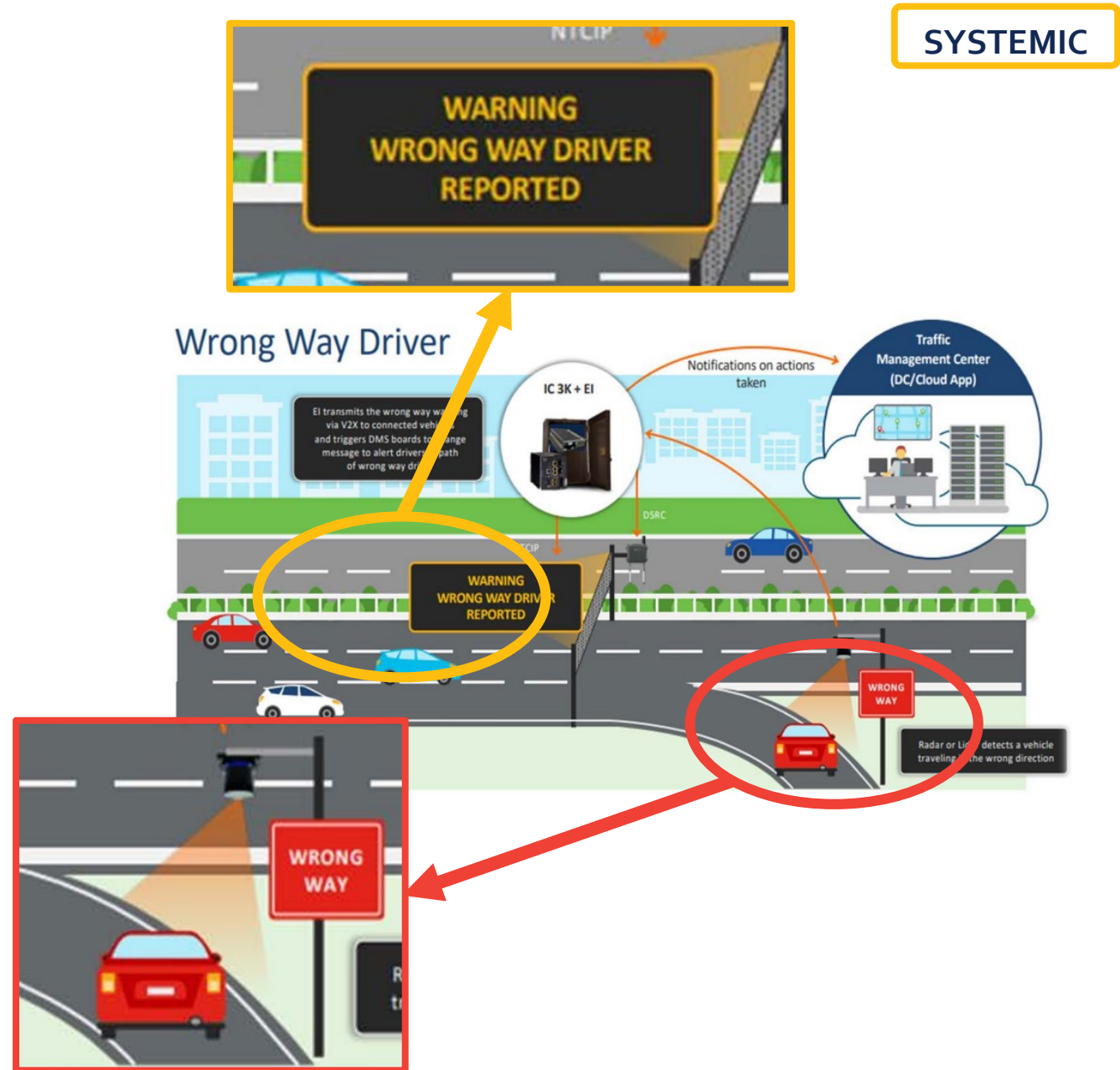


# The Six SSA Principles



# Wrong-Way Driving (WWD) Detection

- Dynamic Flashing Warning Lights activated by wrong-way driver
  - Paired with additional signing and pavement markings
- Analyzing roadway attributes to identify locations for WWD detection.
- *NJ Project Highlight: Rt. 80*
  - 26-mile stretch from Landing Rd (CR 631) to Riverview Dr (CR 640)





# Wrong-Way Driving Detection in Action

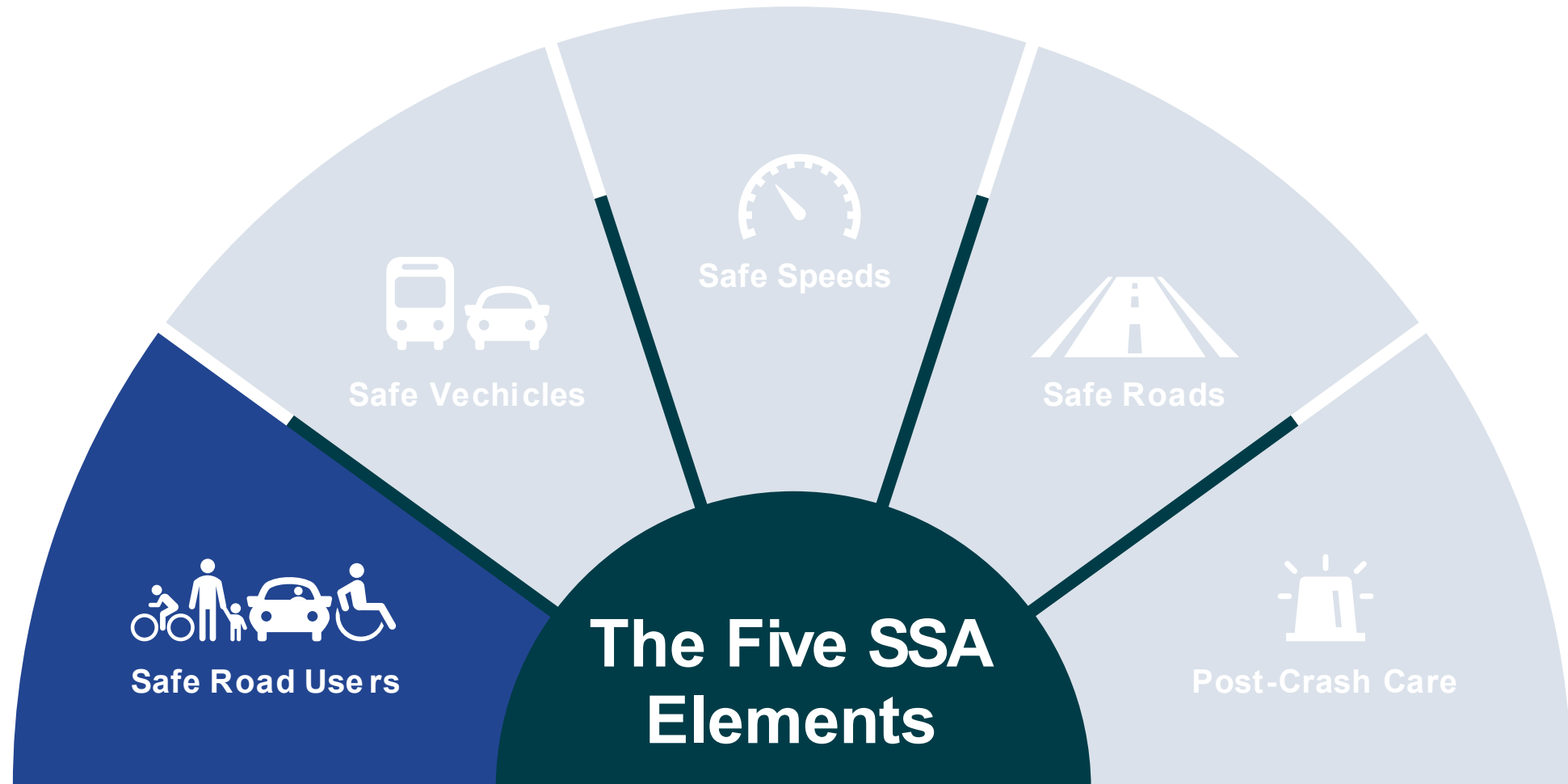


NB US 1 at Old Post Road (Edison, NJ)  
Wrong-Way Driving Detection System

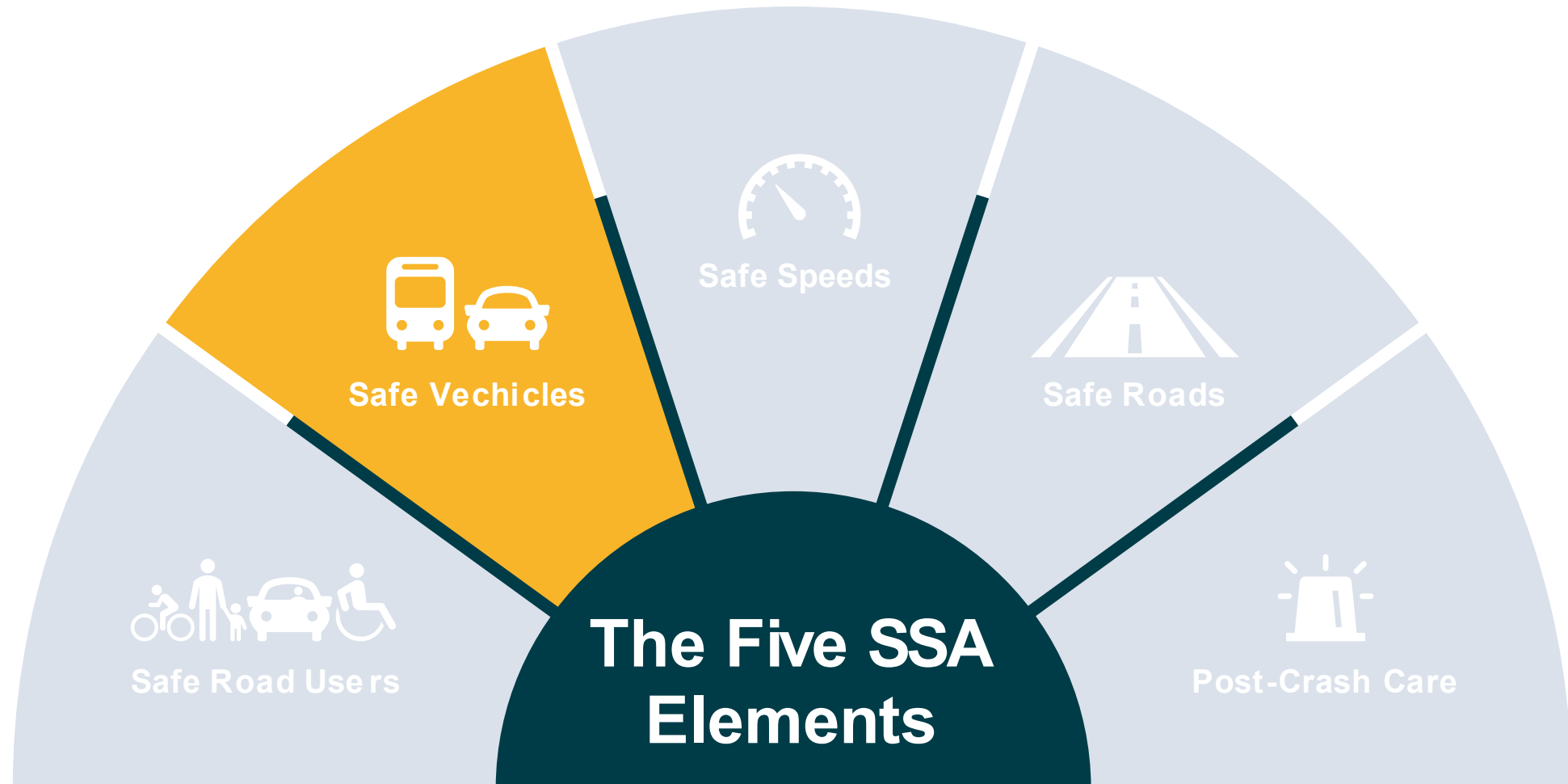
# The Five SSA Elements



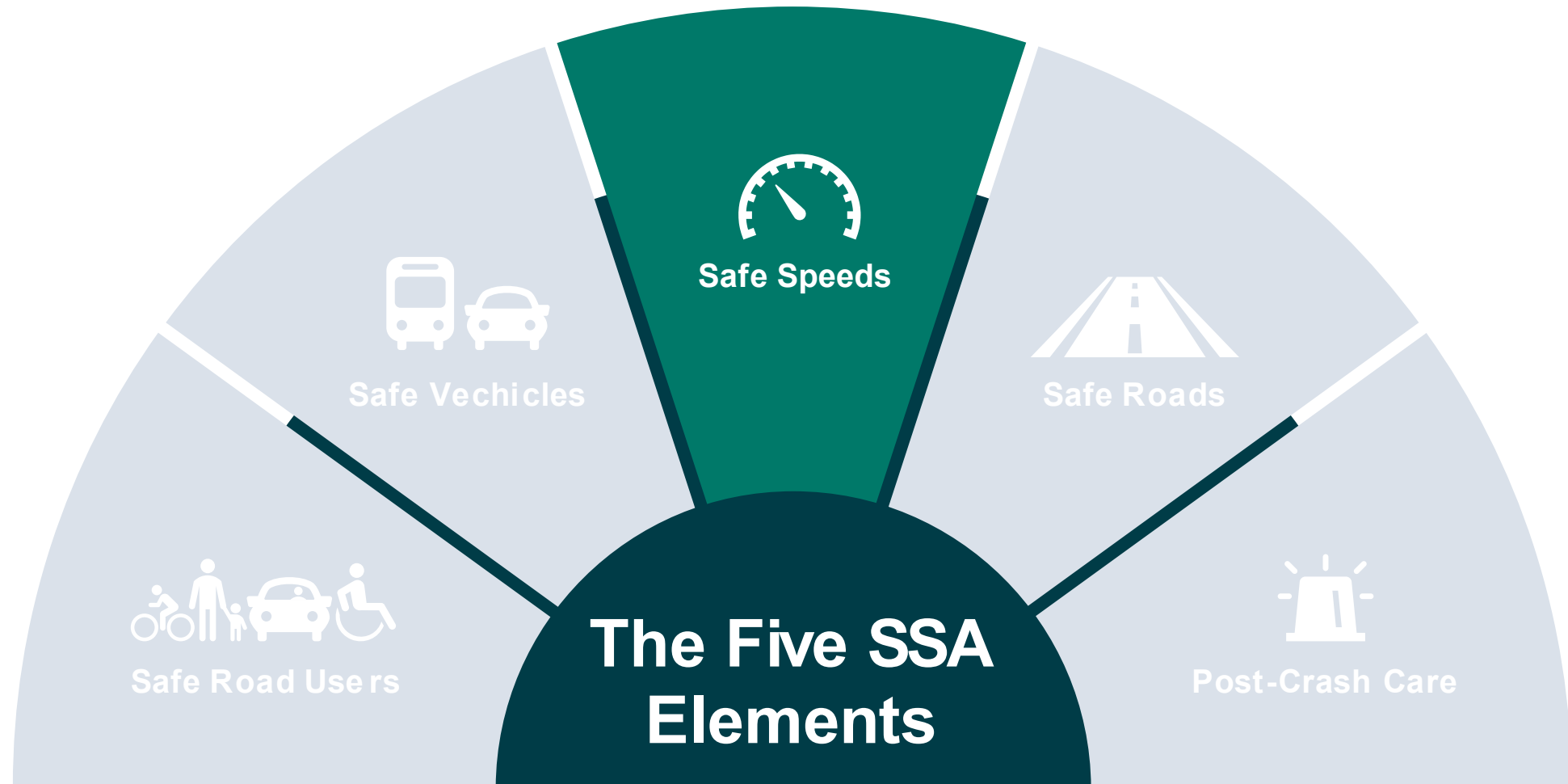
# The Five SSA Elements



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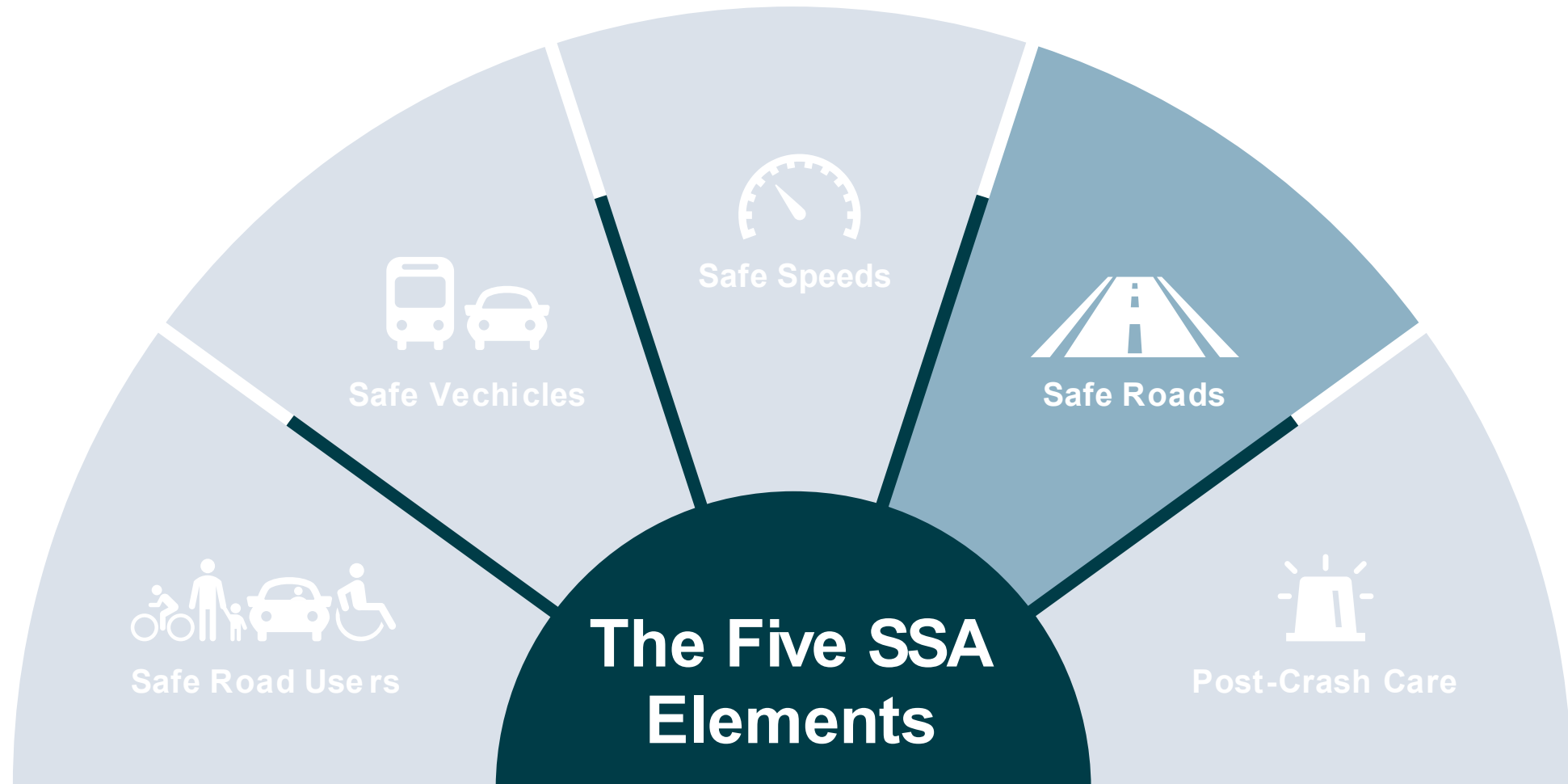


# The Five SSA Elements

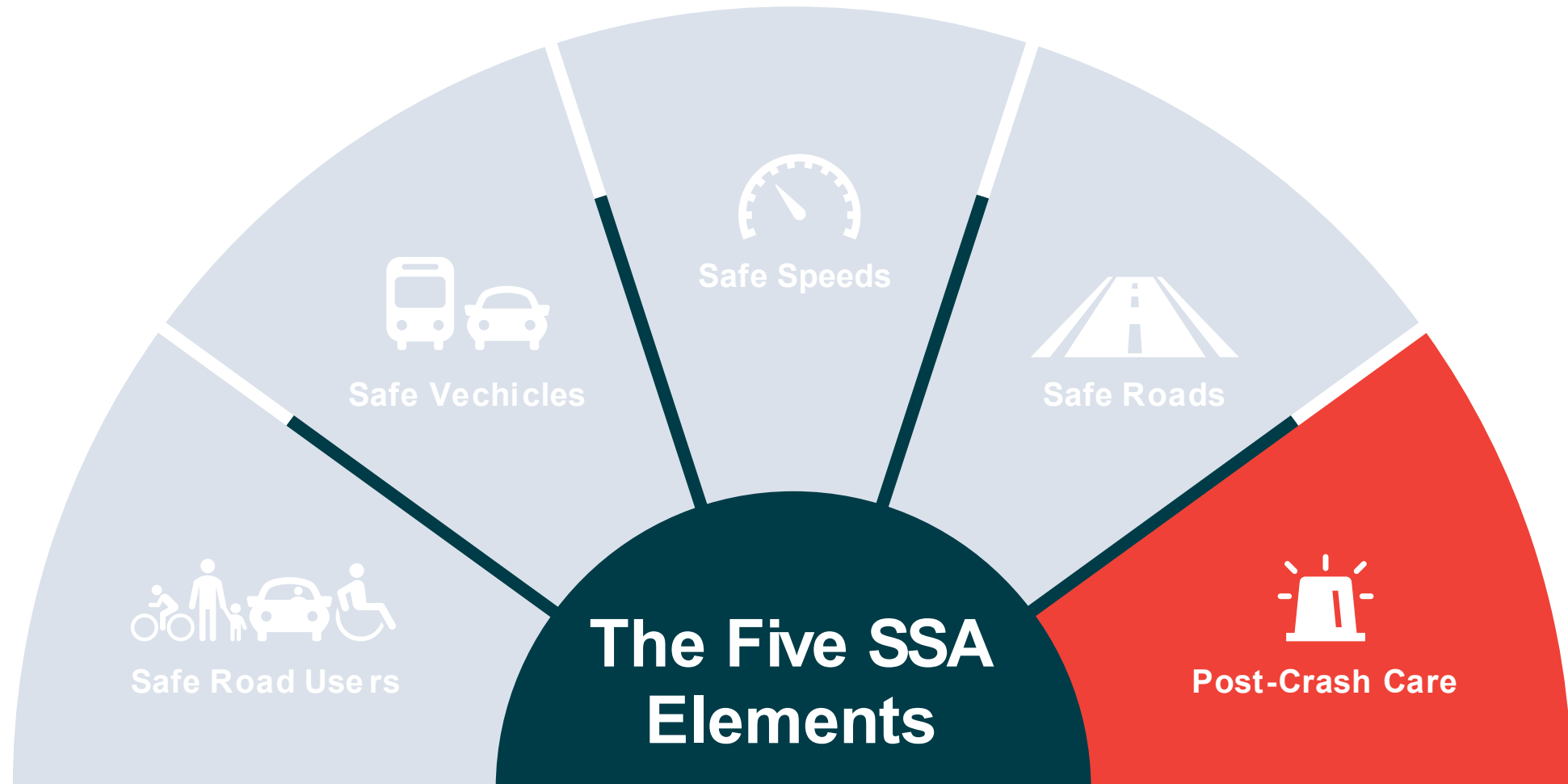




# The Five SSA Elements



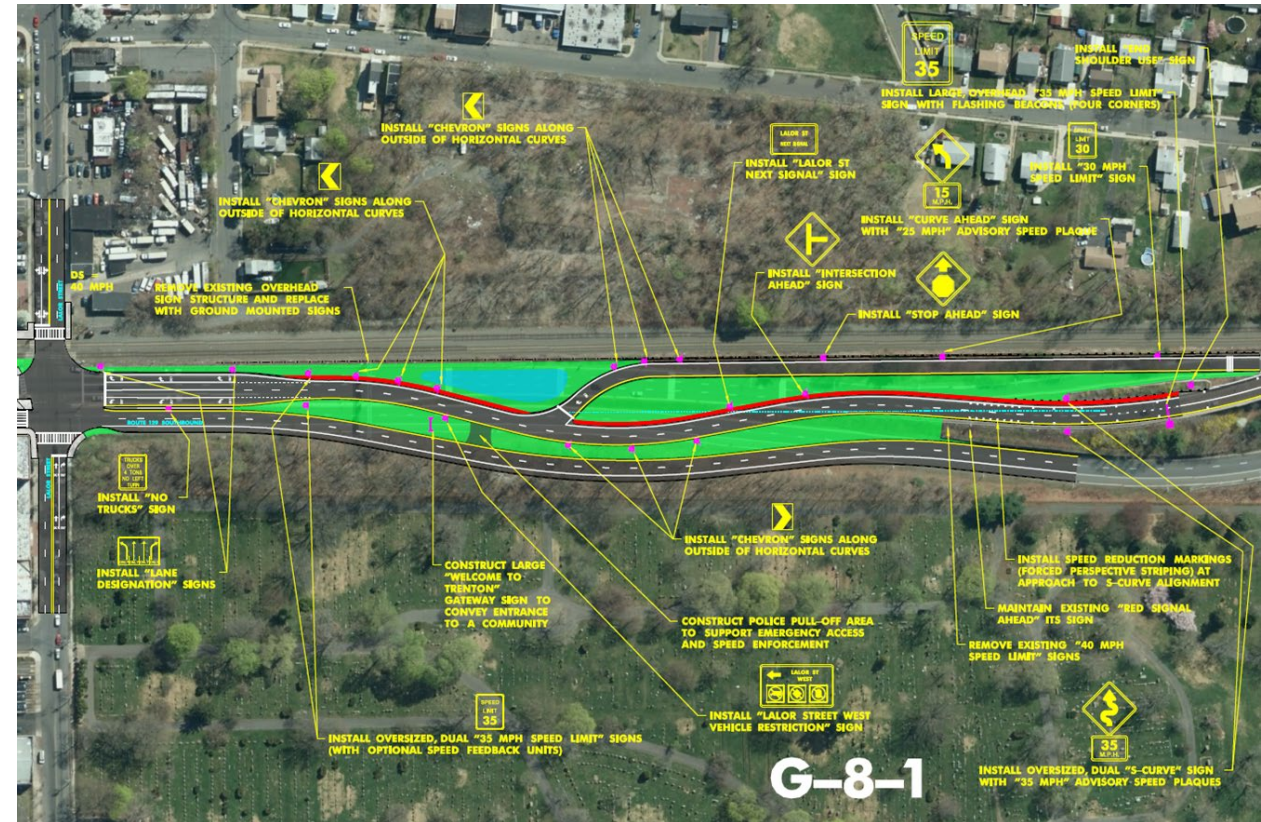
# The Five SSA Elements



# Project Highlight – Route 129, Mercer County



- Pedestrian and bike safety improvements
- Interim short-term improvements
  - Red Clearance Extension
- Designing for target speed
  - Existing posted speed = 45mph
  - Target speed = 35mph
  - Proposed posted speed = 30mph



# Available FHWA Tools & Resources



[highways.dot.gov/safety/zero-deaths/resources](https://highways.dot.gov/safety/zero-deaths/resources)

A screenshot of the Federal Highway Administration's website, specifically the 'FHWA Highway Safety Programs' page. The page features a blue header with the FHWA logo and navigation links. The main content area is divided into sections for 'Zero Deaths and Safe System', 'Resources', 'Relevant Links', and 'Outreach Materials'. The 'Resources' section includes a list of links to various FHWA documents and reports. The 'Outreach Materials' section highlights a new video and a summary document related to road safety culture.

United States Department of Transportation  
U.S. Department of Transportation  
Federal Highway Administration

About FHWA Programs Resources Newsroom

FHWA Highway Safety Programs

Home / Safety / Zero Deaths

Zero Deaths and Safe System

Safety Culture

FHWA's Commitment to Safety

National Efforts

Resources

Equity in Roadway Safety >

Vision Zero Community of Practice >

Tags

- organizational safety culture

Resources

Relevant Links

- FHWA Vision Zero Community of Practice
- Safe Streets and Roads for All Clearinghouse
- National Roadway Safety Strategy
- Safe Streets and Roads for All
- FHWA Complete Streets
- Vision Zero Network
- ITE Safe System
- ITE Vision Zero
- CSCRS Creating Safer Systems and Healthier Communities: Resource Hub
- NSC Safety for All Roadway Users
- MSU Center for Health and Safety Culture

Outreach Materials

- NEW** How Do You Know You Have a Strong Road Safety Culture video shows what a strong organizational safety culture looks like through an illustration of two transportation agencies implementing their road improvement projects.
  - NEW** Know Your Agency's Level of Road Safety Culture summarizes key points from the video and provides prompt questions for discussion and reflection.

# Safe System Road Design Hierarchy (RDH)

- RDH is a **tool based on SSA principles and elements** to think about planning and designing safer roads.
- Consists of **four tiers** of potential solutions.
- **Tier one strategies most closely align with a safe system** and should be prioritized.



*based on FHWA graphic*

# Safe System Project-Based Alignment Framework



Source: FHWA

# SSA Workshop

- Multiagency collaboration
- Understand SSA
- Identify opportunities for implementation
- Identify needs to build momentum



# Upcoming SSA Training

## Training objectives:

- Introduce Safe System Approach
- Recognize Personal and Professional Role in Implementation
- Key Takeaways
  - Principles based
  - Strengthen all five elements
  - Introduce Tools
  - We all play a role and that can start today!



Practitioners with day-to-day roles planning, designing, operating, maintaining and enforcing our system



# Updated NJDOT Complete Streets Policy

- Policy No. 703 – Effective 11/26/24
- Promotes a “comprehensive, integrated, connected multimodal network by providing connections to bicycling and walking trip generators...”
  - Consideration of users of **ALL** modes
- Complete Streets Checklist for limited & full scope projects

	<b>DEPARTMENT OF TRANSPORTATION POLICY/PROCEDURE</b>	Policy No. 703
		Supersedes: 703 Dated: 12-03-2009
		Page 1 of 6
<b>Complete Streets</b>	Effective Date: 11/26/2024	Commissioner: <i>Frank K. O'Leary</i> Sponsor Approval: Assistant Commissioner Statewide Planning, Safety and Capital Investment <i>C. Niles</i> Contact Telephone #: (609) 963-2255

## I. PURPOSE AND SCOPE

This policy provides for the New Jersey Department of Transportation's ("NJDOT" or "the Department") integration of Complete Streets into the planning, design, construction, maintenance, and operation of all new, rehabilitated, and retrofitted transportation facilities, public highways, and public transportation projects funded or administered under the NJDOT Capital Program, to provide safe and equitable access for all users.

This policy and the associated Comprehensive Solutions Handbook and checklists are intended to apply only to NJDOT Capital Program projects. The policy is not applicable to Local System Support projects.

## II. DEFINITIONS

**Complete Streets** – streets that are designed to be safe and feel safe for all roadway users, supported by policies and implementation strategies across all transportation projects and public agencies, to provide safe, connected, and equitable transportation networks.

**Complete Streets Checklist** – a document intended to guide the selection of Complete Streets solutions that adhere to the Department's project delivery process and is used by project managers to record existing roadway conditions, Complete Streets Policy considerations and exemptions, as applicable.

**Complete Streets Comprehensive Solutions Approach** – an approach that considers a wide range of Complete Streets solutions (Type A, Type B, Type C) for all user types and follows a standardized process that ensures thorough consideration of Complete Streets solutions at the earliest stages of the project delivery process.

**Constraint** – a limitation to implement a preferred "Type" of Complete Streets Comprehensive Solution that is based on the criteria listed within the Major Constraints and Moderate Constraints.

**Constraint Criteria Determination** – the use of criteria listed within the Major Constraints and Moderate Constraints to make a decision on the feasibility of including Complete Streets Comprehensive solutions of Type A, Type B, or Type C by the project manager or job manager.

**Department Head** – a director, manager, and/or equivalent title.

**Exemption** – project will not be implementing Complete Streets solutions.

**Full Scope Project** – an NJDOT project that aligns with Federal Highway Administration regulations and follows a standardized project delivery process that consists of the following five phases: Problem Screening, Concept Development, Preliminary Engineering, Final Design, and Construction. A Full Scope Project considers Complete Streets at the earliest stages of the

# Vision for SSA in New Jersey

*Safer roadways start here.*





# REMINDERS & ANNOUNCEMENTS

NJDOT Tech Transfer Website  
[www.njdottechtransfer.net](http://www.njdottechtransfer.net)

NJ STIC Website  
[www.njdottechtransfer.net/nj-stic/](http://www.njdottechtransfer.net/nj-stic/)

# NJ Transportation Ideas Portal

**Welcome!** The New Jersey Department of Transportation's Bureau of Research uses this website to gather and share ideas from NJDOT's research customers and other transportation stakeholders.

**Research Ideas.** We seek to fund research that leads to implementation – to the testing and adoption of new materials and technologies, to better specifications and to greater efficiency. We strive to discover and advance feasible solutions for more durable infrastructure, greater environmental protection and resilience, and improved mobility and safety for residents, workers and visitors.

**Innovation Ideas.** We encourage the deployment of innovations and knowledge transfer. We work with the New Jersey State Transportation Innovation Council (NJ STIC) whose mission is to identify, evaluate, and where possible, rapidly deploy new technologies and process improvements that will accelerate project delivery and improve the quality of NJ's transportation network.



The graphic features the NJ Department of Transportation logo (a blue arrow pointing right inside a red circle with the text 'DEPARTMENT OF TRANSPORTATION THE STATE OF NEW JERSEY') and the 'BUREAU OF RESEARCH' logo (a magnifying glass icon over a blue arrow pointing right, with the text 'BUREAU OF RESEARCH' below it). The background is a collage of transportation-related images: a traffic light, a hand pointing at a screen with various icons (car, bus, train, map, network), and a street scene with cars. A white box with the text 'GOT IDEAS?' is overlaid on the street scene. A large blue starburst shape in the bottom right corner contains the text 'DUE December 31st'.

[njdottechtransfer.ideascale.com](http://njdottechtransfer.ideascale.com)

# Every Day Counts Call for Ideas

Identify proven, market-ready and underutilized innovations for accelerated deployment in EDC in 2026.

*Deadline: February 4, 2025*



The call for ideas is now open through **February 4, 2025**, for [State Transportation Innovation Council \(STIC\)](#) to send proven, market-ready, transformative innovations that could be part of the next round of EDC, which is **EDC-8**

## Future EDC Innovations (2026-2028)

The Federal Highway Administration is collaborating with State, local, Tribal and industry partners and the public to build for the future by identifying proven, market-ready but underutilized processes or technologies in the next round of Every Day Counts (EDC) in 2026-2028. With your help, we have the potential to deliver transportation projects more efficiently and effectively and enhance safety for all users.



### Background

EDC is a State- and Local-based model that identifies and rapidly deploys proven, yet underutilized innovations. Every two years, FHWA works with State transportation departments, local governments, tribes, private industry and other stakeholders to champion a new collection of innovations that merit accelerated deployment. Proven innovations promoted through EDC facilitate greater efficiency at the State and local levels, saving time, money and resources that can be used to deliver more projects.

After selecting EDC innovations, transportation leaders from across the country gather at a summit to discuss and identify opportunities implementing the innovations that best fit the needs of their respective State transportation program. Following the summit, States finalize their selection of innovations, establish performance goals for the level of implementation and adoption over the upcoming two-year cycle, and begin to implement the innovations with the support and assistance of the technical teams established for each innovation.

The EDC program has made a significant positive impact in accelerating the deployment of innovations and in building a culture of innovation within the transportation community. Since the inception of EDC, each State has used 26 or more of the 57 innovations promoted through EDC and some States have adopted more than 45. Many of these innovations have become mainstream practices across the country.

### Contact

Julie Zirlin  
Program Coordinator  
(202) 366-9105  
[Julie.Zirlin@dot.gov](mailto:Julie.Zirlin@dot.gov)

### EDC Rounds

- [EDC-1 \(2011-2012\)](#)
- [EDC-2 \(2013-2014\)](#)
- [EDC-3 \(2015-2016\)](#)
- [EDC-4 \(2017-2018\)](#)
- [EDC-5 \(2019-2020\)](#)
- [EDC-6 \(2021-2022\)](#)
- [EDC-7 \(2023-2024\)](#)



# STIC INCENTIVE PROGRAM

NJDOT Tech Transfer Website

<https://www.njdottechtransfer.net/new-jersey-stic-requests/>

Selection Criteria  
Eligible Projects/Activities  
How to Apply  
List of Projects

[https://www.fhwa.dot.gov/innovation/stic/incentive\\_project/](https://www.fhwa.dot.gov/innovation/stic/incentive_project/)



# NJDOT LCTM GRANT PROGRAM

## State DOT Grant Award Recipients - Low-Carbon Transportation Materials Grants Program - Federal Highway Administration

- NJDOT awarded \$27.85 million grant for LCTM program
- BRIIT is leading this effort
- The duration of the NJDOT-LCTM Program is 2025-2031



# NEXT MEETING

NJ STIC 2025 1<sup>st</sup> Triannual Meeting – April 30<sup>th</sup> 10:00am - 12:00pm

NEXT CIA TEAM  
FEATURE PRESENTATION

**INFRASTRUCTURE  
PRESERVATION**





# THANK YOU!

[www.NJDOTtechtransfer.net/NJ-STIC](http://www.NJDOTtechtransfer.net/NJ-STIC)

NJDOT Bureau of Research  
(609) 963-2242