

CIA TEAM

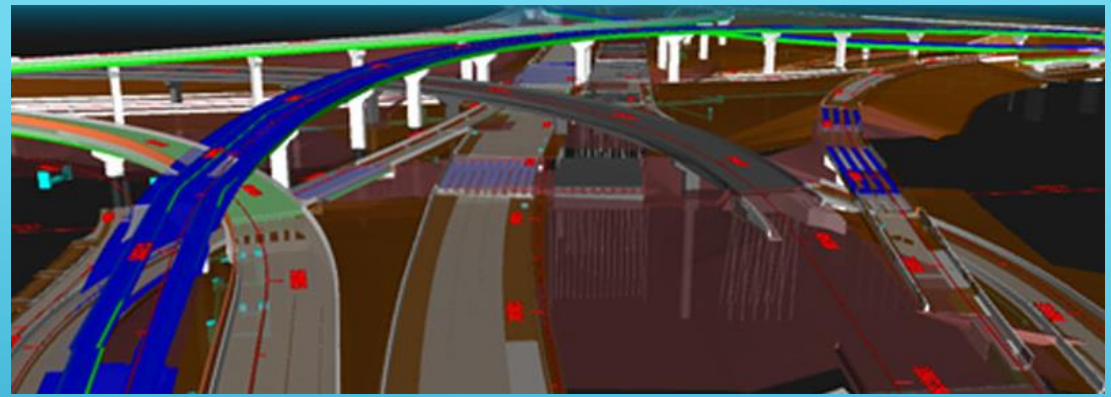
INFRASTRUCTURE

PRESERVATION

NJDOT – Shivani Patel

FHWA – Nunzio Merla

Digital As-Builts



Purpose: *To explore the use of 3D models to build projects and update that digital information to reflect the project's as-built condition*

Status:

- Team is in the process of selecting a pilot project (OpenRoads software)
- Creation of the as-built survey will provide a digital twin (for comparison)
- Team speaking with GIS SME on how to store digital as-builts
- Team has reported significant progress

EDC – 6

e-Ticketing



Purpose: Provide stakeholders with an electronic means to produce, transmit, and track and verify materials deliveries

Status:

- Third vendor has provided a product demonstration
- Seeking funding for required cellphone app and accompanying software
- Next steps: Selection of a vendor and commencement of pilot projects



EDC – 6

Targeted Overlay Pavement Solutions (TOPS)



Purpose: To develop and install overlays that provide long-life performance under a wide range of traffic, environmental, & existing pavement conditions

Status:

- Ultra High Performance Thin Overlay is included in the Route 42 project (UPC 213090) which is out for bid
- NJDOT Pavement Management Unit acquired new skid testing equipment
- In the next months, the team will monitor and analyze results to advise the department on future use

EDC – 6

UHPC for Bridge Preservation and Repair



Purpose: *To explore the use of UHPC for Bridge Preservation and Repair*

Status:

- Team participated in FHWA-sponsored UHPC Peer Exchange May 9-11, 2022
- Second UHPC overlay testing completed-NJ 159 WB over Passaic River Bridge
- Team will present at the 39th Annual International Bridge Conference July 18-20, 2022
- Preparing for the first UHPC link slab applications-Superstructure Replacement Project, River Road over Rt. 287 Bridge



QUESTIONS?