

CIA TEAM

***INFRASTRUCTURE***

***PRESERVATION***

NJDOT – Bob Signora

FHWA – John Miller

# Locally Administered Projects: Consultant Services Flexibilities

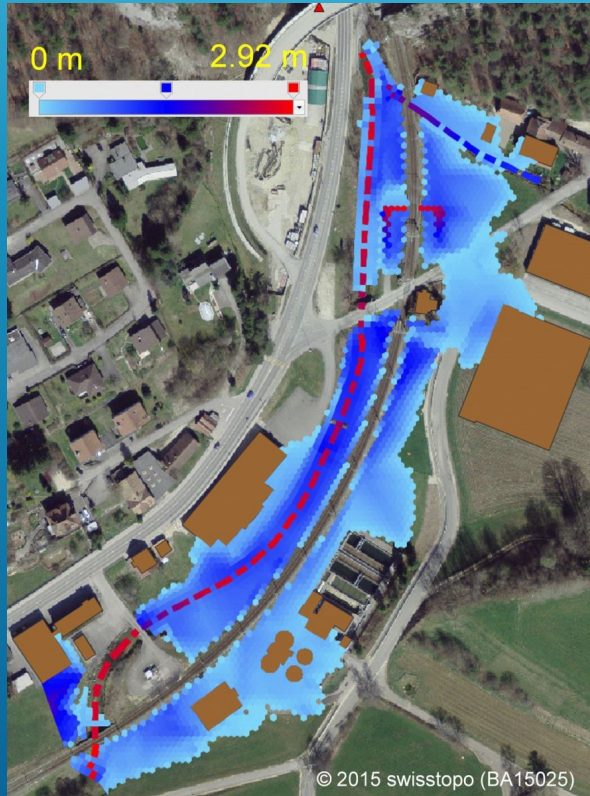


Purpose: To provide consultant services to develop and deliver locally administered federal aid projects.

- Implemented Pilot Design Assistance Program for Safe Routes to School and Transportation Alternatives
- Team is obtaining training module feedback and will evaluate the program once the projects have been completed

# Collaborative Hydraulics: Advancing to the Next Generation of Engineering (CHANGE)

Purpose: To explore the use of the next generation of hydraulic modeling tools.

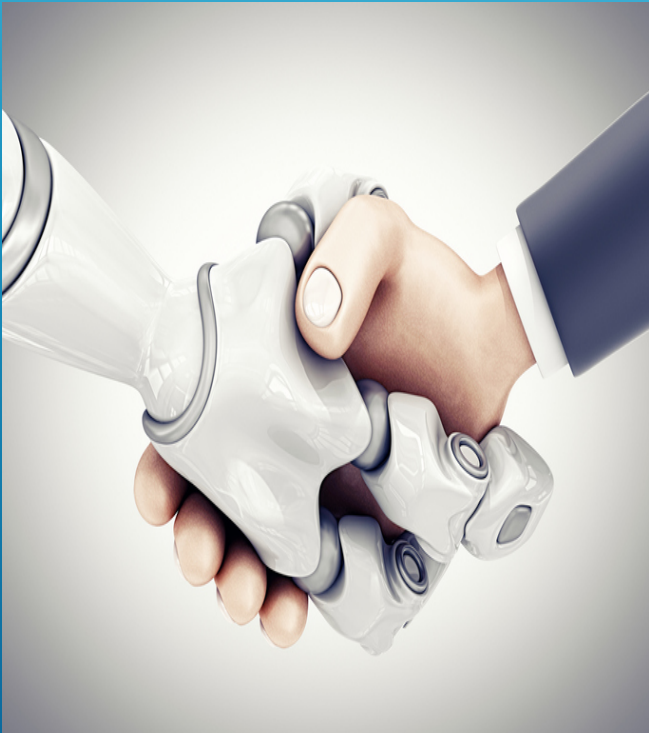


- Pilot projects were selected to assess the modeling tools strengths & weaknesses and the ease of use.
- Pilot projects will be used to develop methodologies, policies and procedures to be used for 2D modeling of complex bridge hydraulics.

# e-Construction and Partnering: A Vision for the Future

Purpose: Expand on ED-3 e-Construction for enhanced partnering among stakeholders on construction projects, improving communication and workflows while streamlining project delivery.

- Collaborated with DPM in conducting pilot study for use of E-builder software system for electronic reviews.
- Conducted pilot study for onsite uploading of inspection reports into Site Manager.
- Procured tablets with STIC \$ and distributed them to regional safety engineers and members of asbuilt review team for preparation of onsite reports



# Ultra High Performance Concrete (UHPC) overlay for bridge decks

## Purpose: Investigate new application of UHPC (overlying bridge decks)

- Investigation will no longer be performed in the lab as initially suggested.
- Piloting existing 6 bridges to apply various overlay materials including UHPC. The project has been formally created ; “UHPC Overlay Research Project”
- CPC approval was received on 6/20/2018 to advance to Final Design once the Environmental document is completed



# Ultra High Performance Concrete (UHPC) on Link Slabs

## Purpose: Investigate new application of UHPC (Link Slabs)

- Pilot project (Rt. 17 over Central Avenue bridge) is being considered for this application.
- Department/CD Consultant will evaluate this further before making a determination on whether to pursue UHPC for this project

