

CIA TEAM

***INFRASTRUCTURE***

***PRESERVATION***

NJDOT – Bob Signora

FHWA – John Miller

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

**Purpose:** Improve the understanding of complex interactions between river or coastal environments and transportation assets

### **Benefits:**

- *enabling better design*
- *enhanced communication*
- *more efficient project delivery*

### **Status:**

- *H&H unit attended SRH 2D North East Peer Exchange Review in NH and briefed Geotech staff about the current SRH 2D practices*
- *In-person staff training was cancelled due to COVID19. Training will be held remotely.*



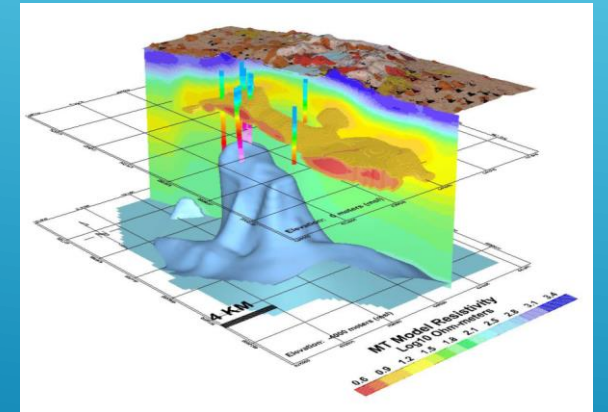
# EDC – 5

## Advanced Geotechnical Exploration Methods (The A-Game)

**Purpose:** To explore new innovative technologies for enhancing the subsurface exploration program

### Benefits:

- Reduce uncertainties in subsurface conditions
- Mitigates design and construction risks
- Improve Quality and accelerate Project Delivery



### Status:

- Geophysical Testing was added to the Bridges & Structures Design Manual
- New innovative techniques were included in the subsurface exploration contract language

**Purpose:** To continue to explore new methods of project bundling

## **Benefits:**

- Streamlines design, contracting, and construction
- Capitalize on economies of scale to increase efficiency
- Greater collaboration during project delivery and construction



## **Status:**

- Bundle of 2 Delaware & Raritan Canal bridge replacement projects under way
- NJDOT tracking man hours and costs (compared to single project)
- Project bundling documents were sent to FHWA EDC-5 Project Bundling Team (Office of Infrastructure and Resource Center). The documents included guidance on selecting bundling projects and project bundling tracking documents.