



NEW JERSEY STATE TRANSPORTATION INNOVATION COUNCIL

Winter Meeting
February 7, 2019



WELCOME & OPENING REMARKS

Mike Russo
Assistant Commissioner
NJDOT Planning, Multimodal & Grant Administration



INTRODUCTIONS

Mike Russo
Assistant Commissioner
NJDOT Planning, Multimodal & Grant Administration



ROUNDTABLE RECAP



Kimbrali Davis
Section Chief
NJDOT Bureau of Research



FHWA UPDATES



Helene Roberts, P.E.
Innovation Coordinator & Performance Manager
FHWA, NJ Division Office

EDC 5 REGIONAL SUMMIT 2018

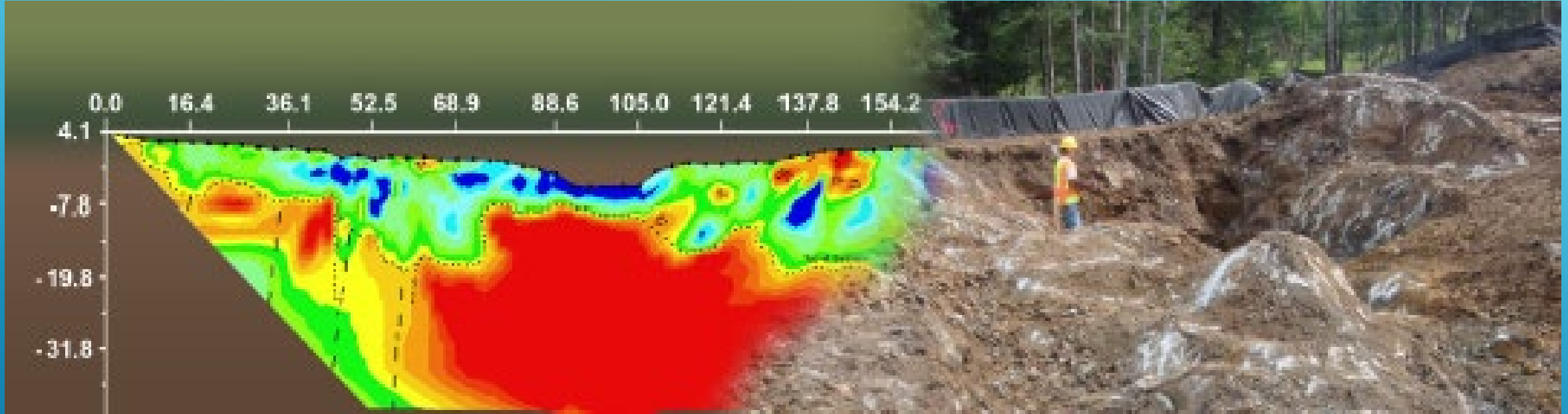


EDC ROUND 5 (EDC-5)



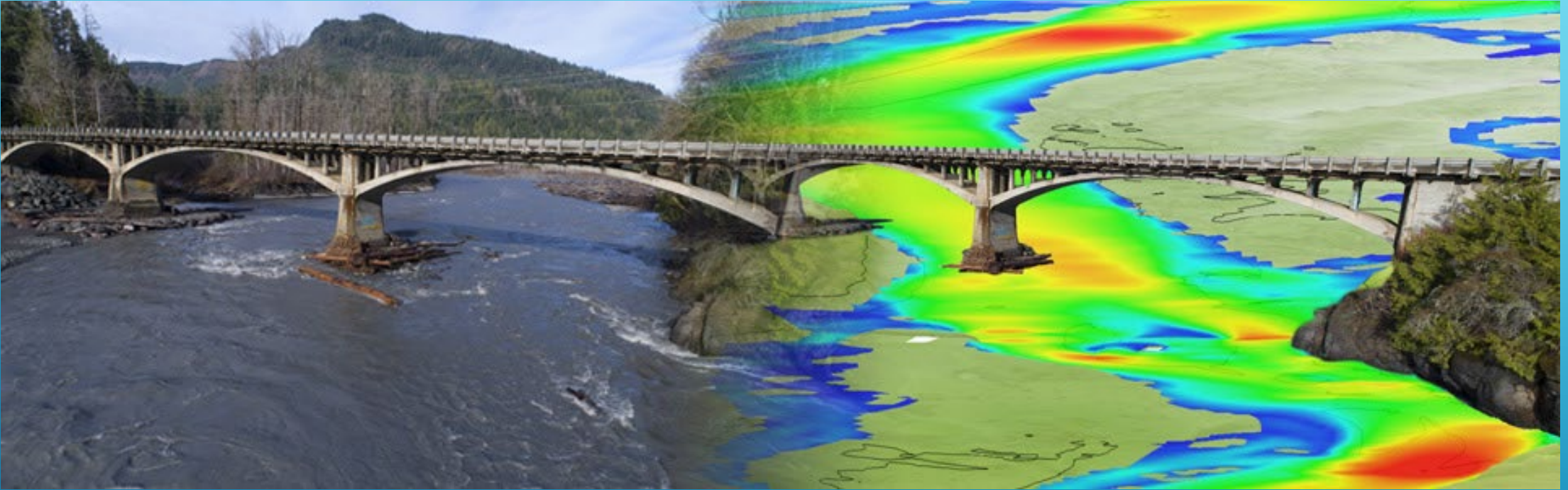
Not Implementing	not currently using the innovation anywhere in the State and is not interested in pursuing the innovation
Development	collecting guidance and best practices, building support with partners and stakeholders, and developing an implementation process
Demonstration	testing and piloting the innovation
Assessment	assessing the performance of and process for carrying out the innovation and making adjustments to prepare for full deployment
Institutionalized	adopted the innovation as a standard process or practice and uses it regularly on projects

STAGES OF INNOVATION



ADVANCED GEOTECHNICAL METHODS IN EXPLORATION (A-GaME)

CIA: Infrastructure



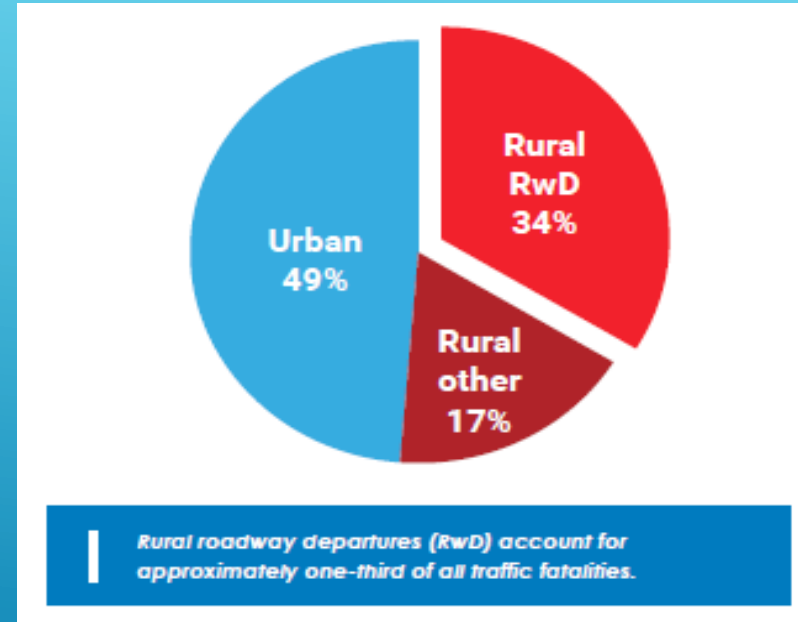
COLLABORATIVE HYDRAULICS: ADVANCING TO THE NEXT GENERATION OF ENGINEERING (CHANGE)

CIA: Infrastructure

PROJECT BUNDLING

CIA: Infrastructure





REDUCING RURAL ROADWAY DEPARTURES (RWD)

CIA: Safety

SAFE TRANSPORTATION FOR EVERY PEDESTRIAN (STEP)

CIA: Safety



*Mid-block pedestrian crossing location with
Rectangular Rapid-Flashing Beacons (RRFB).*

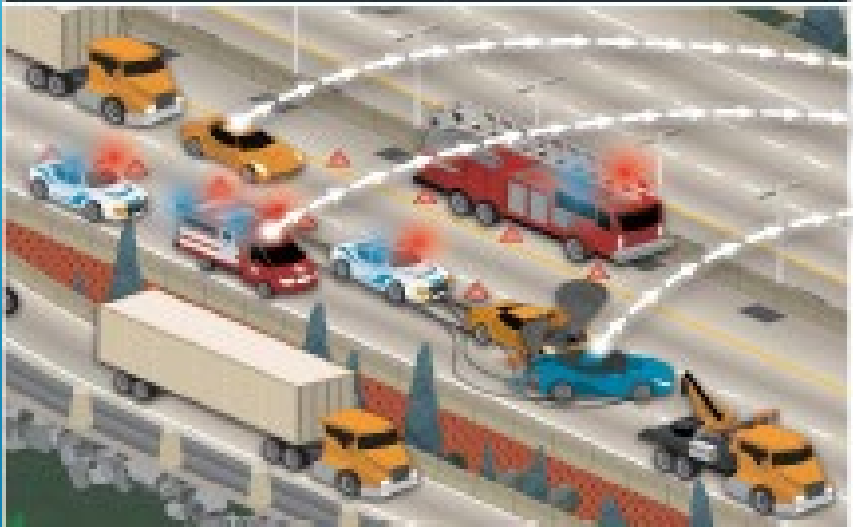
Photo courtesy VHB



UNMANNED AERIAL SYSTEMS (UAS)

CIA: Mobility

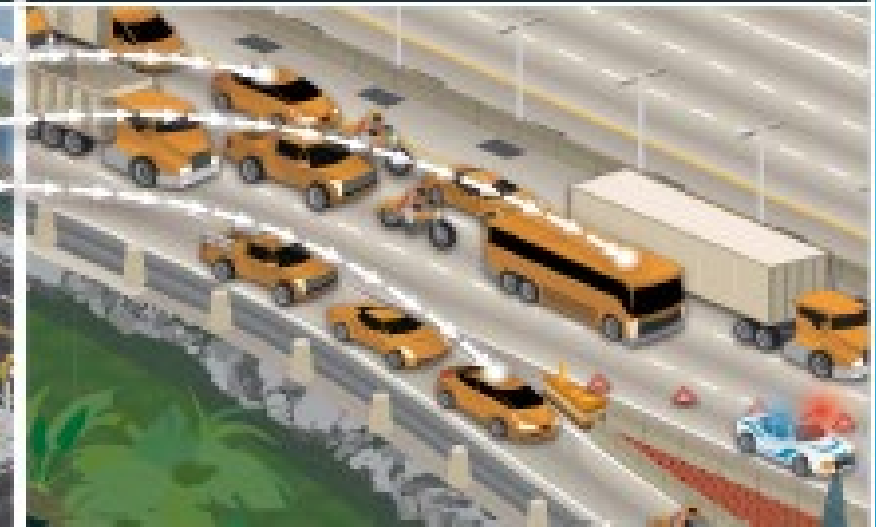
Traffic Incident



Traffic Operation Center



Real-time Driver Data



USE OF CROWDSOURCING TO ADVANCE OPERATIONS

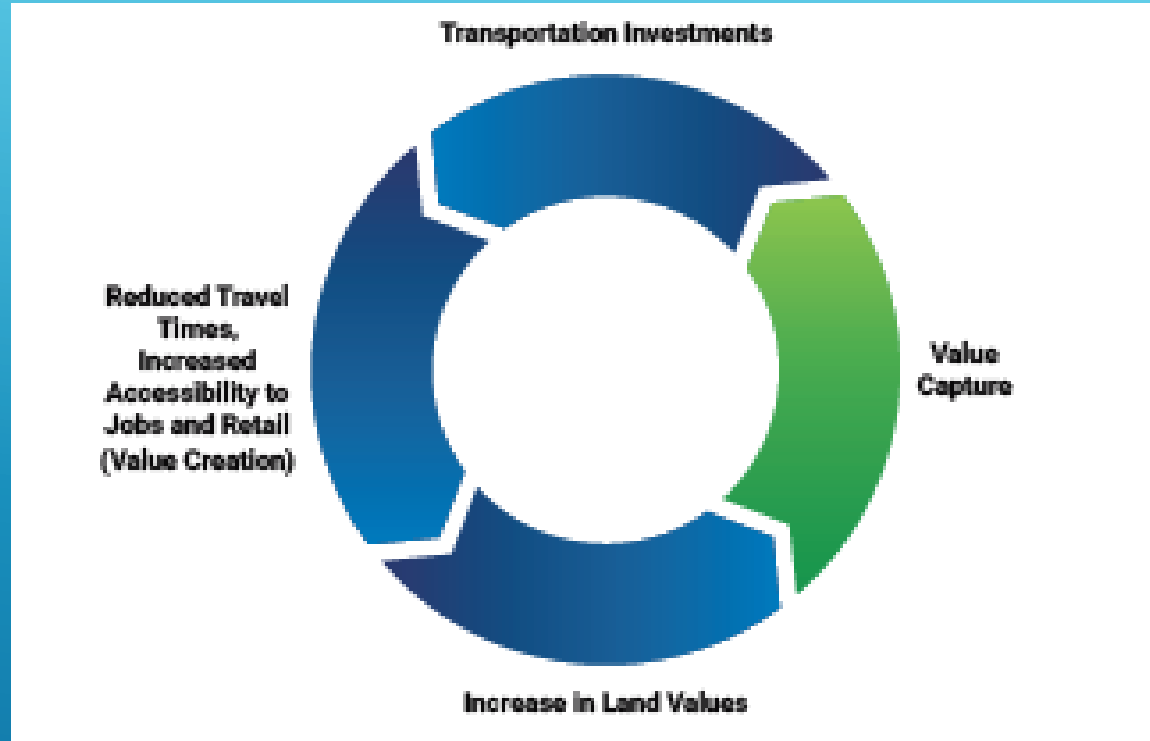
CIA: Mobility



WEATHER RESPONSIVE MANAGEMENT STRATEGIES (WRMS)

CIA: Mobility

VALUE CAPTURE



VIRTUAL PUBLIC INVOLVEMENT



NOT IMPLEMENTING

FUNDING PROGRAMS

Accelerated
Innovation
Deployment
(AID)



STIC Incentive Program

Up to \$100,000 per STIC per year

Rolling application process and
no competition

Support cost of standardizing
innovative practices (i.e.,
developing standards,
specifications, technical
guidance, MOAs, training,
reporting)

Demonstration Program

Rolling application process and
no competition

Offsets the risk of trying an
innovation

Up to full cost of innovation –
max. \$1M

State DOT applies

6 months to obligate funds

01

Up to \$100,000
per STIC per year

02

Rolling
application
process and no
competition

03

Standardizing
innovative
practices

STIC INCENTIVE FUNDING PROGRAM



NJ STIC INCENTIVE PROJECTS



NJ STIC INCENTIVE PROJECTS

01

**Rolling
application
No
competition**

02

**Offsets
financial
risk**

03

**Up to full
cost of
innovation
– max. \$1M**

04

**State DOT
applies**

05

**6 months to
obligate
funds**

ACCELERATED INNOVATION DEPLOYMENT (AID) DEMONSTRATION PROGRAM