# VTrans Approach to Resiliency

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## VTrans RESILIENCE

"The ability to anticipate, prepare for, and adapt to changing conditions and withstand, respond to, and recover rapidly from disruptions" (FHWA Order 5520)



Emergency Response and Recovery

**COOP** 

**ICS** 

VT FHWA-ER Manual

Rapid Response



Planning and Programming

**Training** 

**Tool Development** 

Prioritization



Design and Engineering

Design Standards Update

Hydraulics Manual Update

TH Road and Bridge

Standards



Infrastructure Investments

**Rail and Road Structures** 

Slope Stability

**Nature Based Designs** 

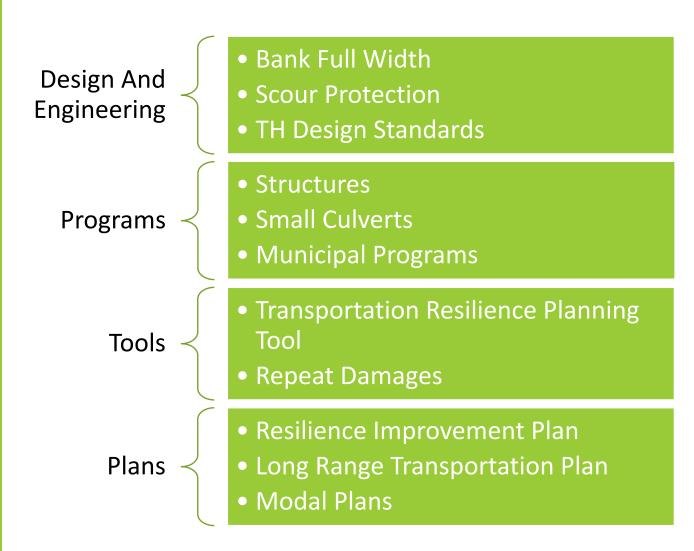
## VTrans Internal

**Standards** 

**Programs** 

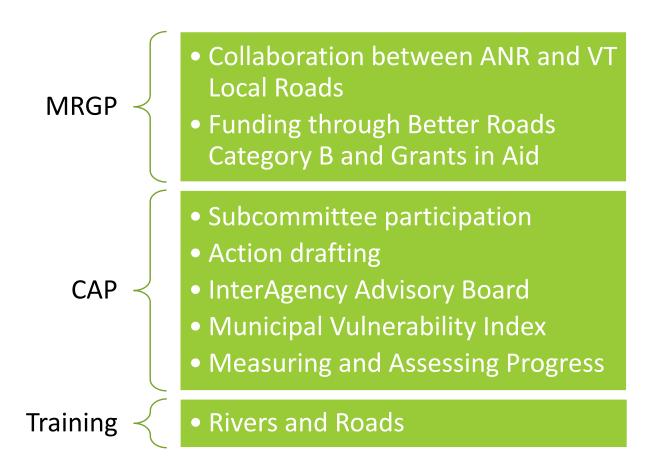
**Tools** 

Planning



# VTrans and ANR

DEC CAO



# VTrans and VEM

Climate Adaptation
Collaboration
Funding

Grants Review

 VTrans representation on project review committees

**Interagency** Coordination

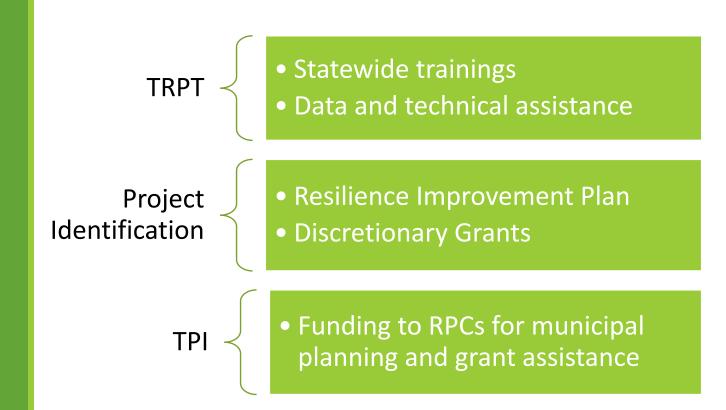
- Project Prioritization
- State Hazard Mitigation Plan

FEMA Projects  Partnerships with RPCs and Nonprofits

# VTrans and RPCs

Transportation
Resilience
Planning Tool
(TRPT)

**PROTECT** 



## Climate Action Plan

### VTrans led actions

## Establish Resilience Program

#### **IIJA PROTECT**

- RIP Project Prioritization
- Capital Program harmonization
- Discretionary grants

# Improve Road Drainage

- Better Roads
- Grants in Aid
- Municipal Stormwater Grants

# Flood Vulnerability Assessment

#### **TRPT**

 Vulnerability and criticality assessment

#### **RIP**

 Resilience project prioritization



## Climate Action Plan (Continued)

## VTrans led actions

# Planning & Project Selection

#### **RIP**

Integration into project selection process

# Resilience & Connectivity

#### Design Standards

 Bankfull width for structure sizing

Wildlife crossing grants

## Rail Flood Vulnerability

#### **TRPT**

 Planned expansion to rail network



## State Hazard Mitigation Plan

### VTrans led actions

# Update and Expand TRPT

 Efforts underway to set out a roadmap for updating and expanding the TRPT

### Incorporate Resilience

#### **Project Selection**

 Resilience criteria based on RIP scores

# Identify Funding

- PROTECT formula and grant funding
- FEMA mitigation grants

# Municipal Assistance

RIP prioritization includes municipal assets

