
VTrans Approach to Resiliency

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HOUSE TRANSPORTATION COMMITTEE, JANUARY 24, 2024

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

Design And
Engineering

- Bank Full Width
- Scour Protection
- TH Design Standards

Programs

- Structures
- Small Culverts
- Municipal Programs

Tools

- Transportation Resilience Planning Tool
- Repeat Damages

Plans

- Resilience Improvement Plan
- Long Range Transportation Plan
- Modal Plans

VTrans and ANR

DEC
CAO

MRGP

- Collaboration between ANR and VT Local Roads
- Funding through Better Roads Category B and Grants in Aid

CAP

- Subcommittee participation
- Action drafting
- InterAgency Advisory Board
- Municipal Vulnerability Index
- Measuring and Assessing Progress

Training

- Rivers and Roads

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 Non-profits

VTrans and RPCs

Transportation
Resilience
Planning Tool
(TRPT)

PROTECT

TRPT

- Statewide trainings
- Data and technical assistance

Project
Identification

- Resilience Improvement Plan
- Discretionary Grants

TPI

- Funding to RPCs for municipal planning and grant assistance

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