

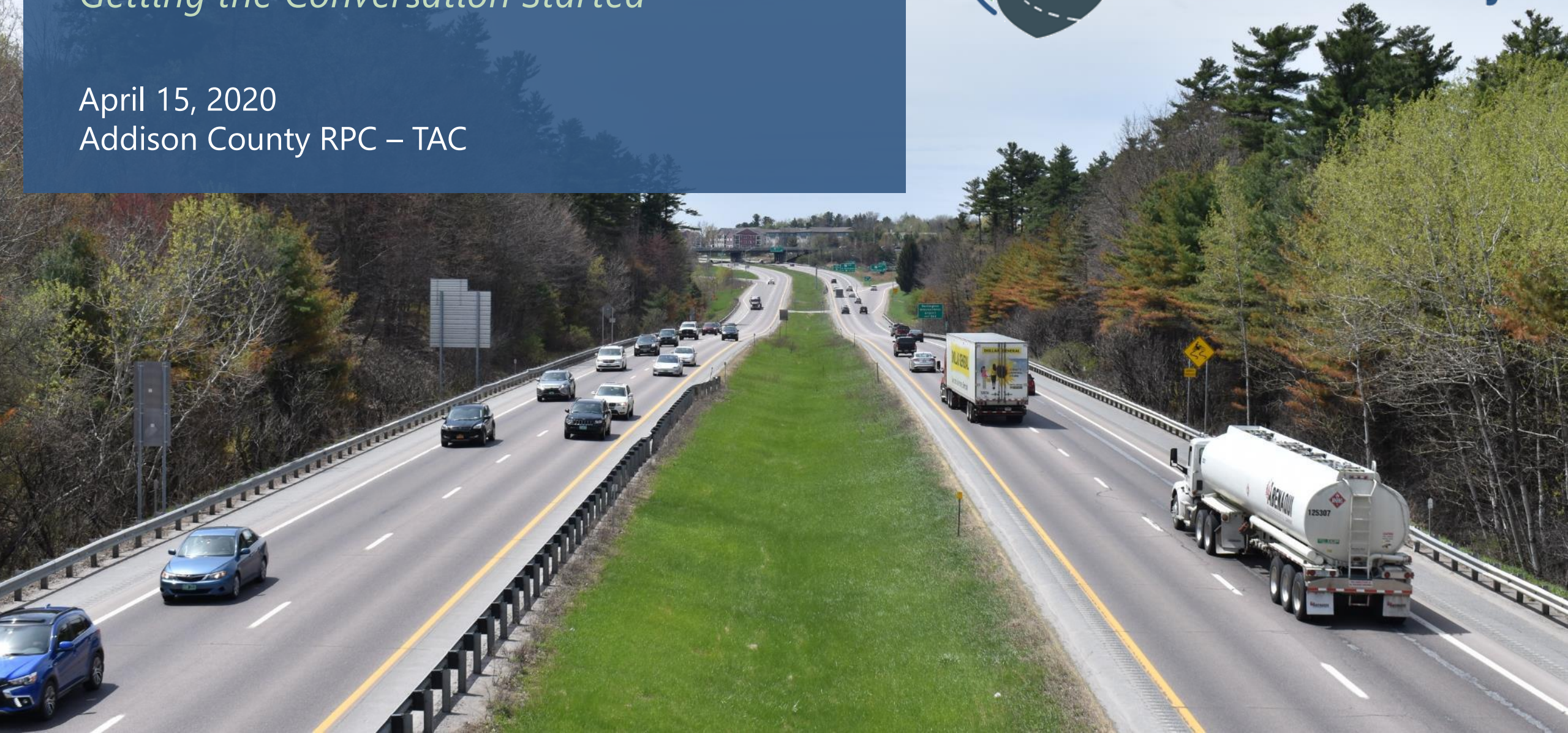
Public Meetings First Round

Getting the Conversation Started

April 15, 2020
Addison County RPC – TAC



Chittenden County
I-89 2050 Study

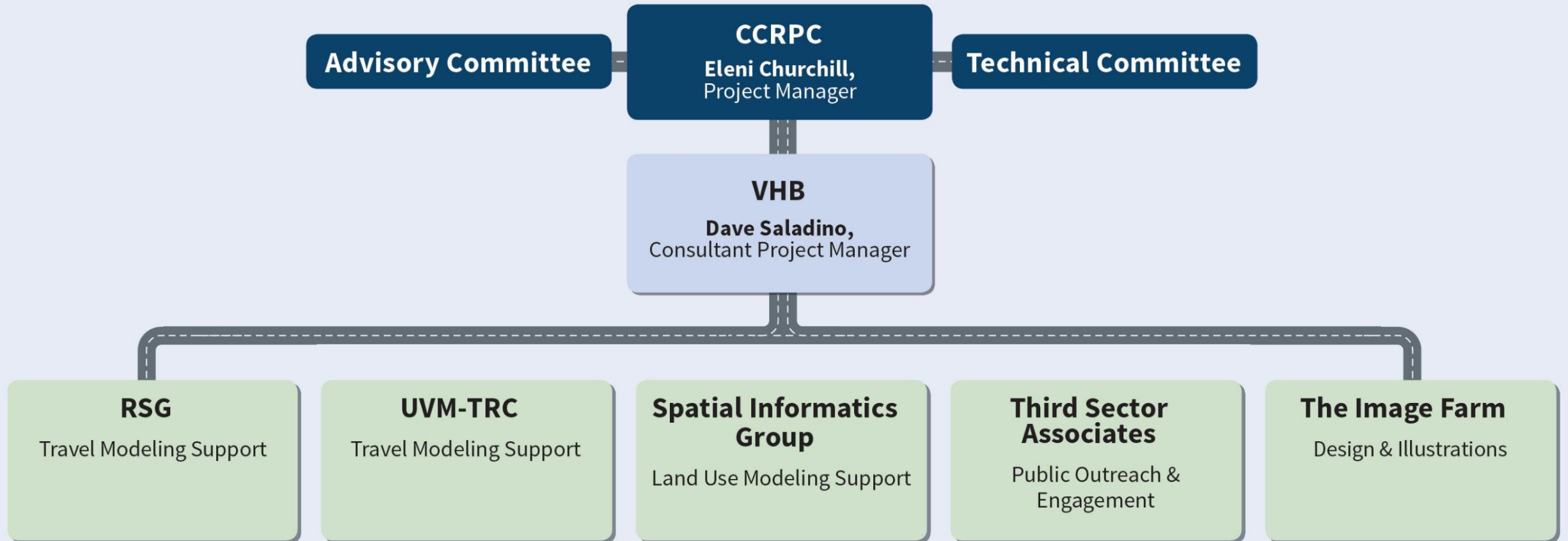


Agenda

1. Project Team Introduction
2. Brief Project Background
3. Issues & Opportunities for the Corridor
4. I-89 Corridor Vision & Goals
5. Wrap Up & Next Steps



Project Team



Technical Committee

Advisory Committee

CCRPC
Eleni Churchill,
Project Manager

Technical Committee

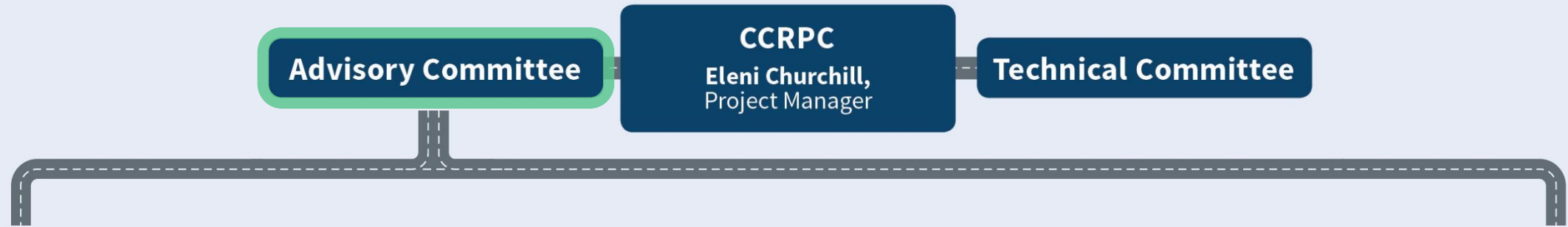
The Technical Committee will focus on the **key technical issues and decisions** that need to be advanced during the course of the study. This group will function as the body that will **ensure quality from a technical standpoint** throughout the life of the project and assist the project team with **disseminating complex concepts and technical information** to the Project's Advisory Committee.

Members:

- Joe Segale, *VTrans*
- Kevin Marshia, *VTrans*
- Amy Bell, *VTrans*
- David Blackmore, *VTrans*
- Ashley Bishop, *VTrans*
- Christopher Jolly, *FHWA*
- Justin Rabidoux, *City of South Burlington*
- Nicole Losch, *City of Burlington*



Advisory Committee



The Advisory Committee will **provide policy guidance and input** on a wide range of topics from study goals and stakeholder engagement strategies to alternatives evaluation and decision-making. This group will function as a body with wide knowledge who can speak on behalf of many communities impacted by this project and will **help in the decision-making process** throughout the project.

Advisory Committee Chair: Charlie Baker, CCRPC

Advisory Committee

Advisory Committee

CCRPC
Eleni Churchill,
Project Manager

Technical Committee

Advisory Committee Members

- AARP
- Burlington International Airport
- Conservation Law Foundation (CLF)
- Chittenden Area Transportation Management Association (CATMA)
- Federal Highway Administration (FHWA)
- Greater Burlington Industrial Corporation
- Green Mountain Transit Authority (GMTA)
- Lake Champlain Regional Chamber of Commerce
- Local Motion
- Real Estate
 - O'Brien Brothers
 - Pomerleau Real Estate
- Municipalities
 - Colchester
 - Milton
 - Richmond
 - South Burlington
 - Williston
 - Winooski
- Regional Planning Commissions
 - Central Vermont Regional Planning Commission (CVRPC)
 - Northwest Vermont Regional Planning Commission (NRPC)
- Vermont Natural Resource Council (VNRC)
- VT Agency of Natural Resources (ANR)
- VT Agency of Transportation (VTrans)
 - Asset Management Bureau
 - Policy, Planning, and Intermodal Development
 - Highway Safety & Design Bureau
 - Operations & Safety Bureau



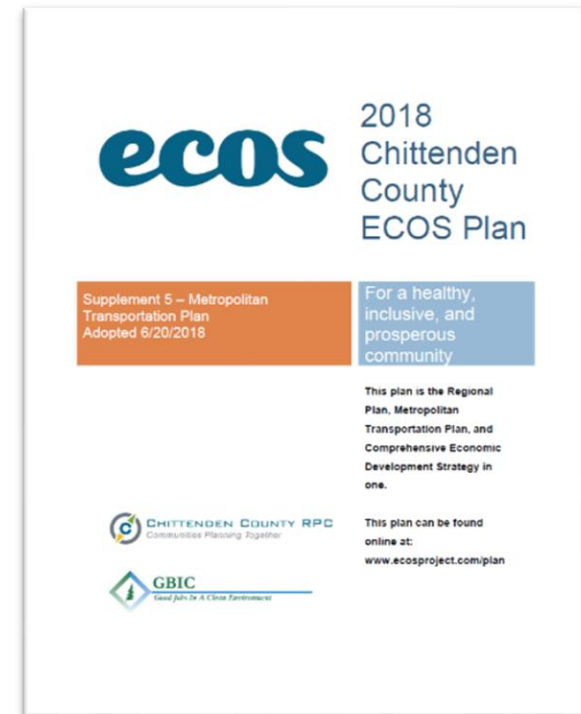
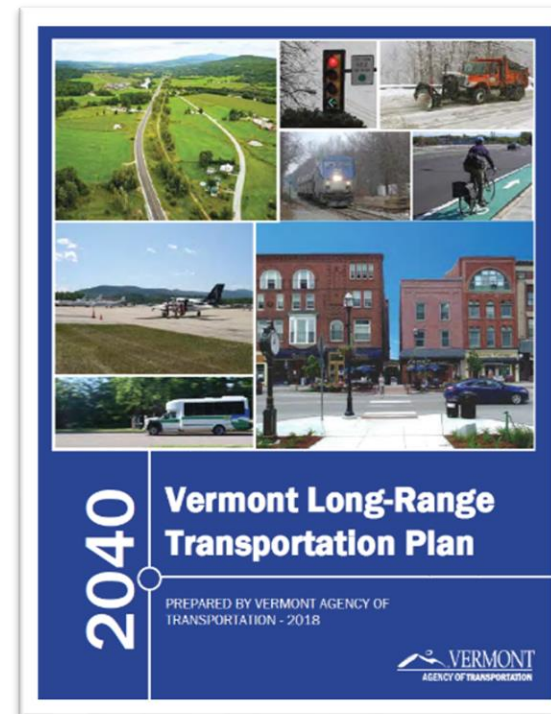
Project Background



Chittenden County
I-89 2050 Study

Guiding Documents

- **CCRPC 2018 Metropolitan Transportation Plan**
 - **Goal:** Provide accessible, safe, efficient, interconnected, secure, equitable and sustainable mobility choices for our region's businesses, residents and visitors.
- **VTrans 2040 Long Range Transportation Plan**
 - **Vision:** A safe, reliable and multimodal transportation system that grows the economy, is affordable to use and operate, and serves vulnerable populations.



Other Guiding Plans

- ECOS Plan, 2018
- Vermont Transportation Asset Management Plan, 2018
- VTrans On-Road Bicycle Plan, 2018
- Strategic Highway Safety Plan, 2017
- Vermont Intelligent Transportation Systems Architecture, 2017
- Vermont State Rail Plan, 2016
- Vermont Freight Plan, 2015
- Vermont Statewide Intercity Bus Study Update, 2013
- Public Transit Policy Plan, 2012

CCRPC MTP Priorities

- Approximately 70% of Funding towards System Preservation
- Concentrate Growth in our Villages & Downtowns
 - 90% of HH growth in areas planned for growth
- Safety (HCL) Improvements
- ITS Investments
- TDM Programs
- Increases in Walking & Biking Infrastructure
- Capacity Expansion when Needed

The strategies strike a balance between:



Reducing congestion



Fixing high-crash locations



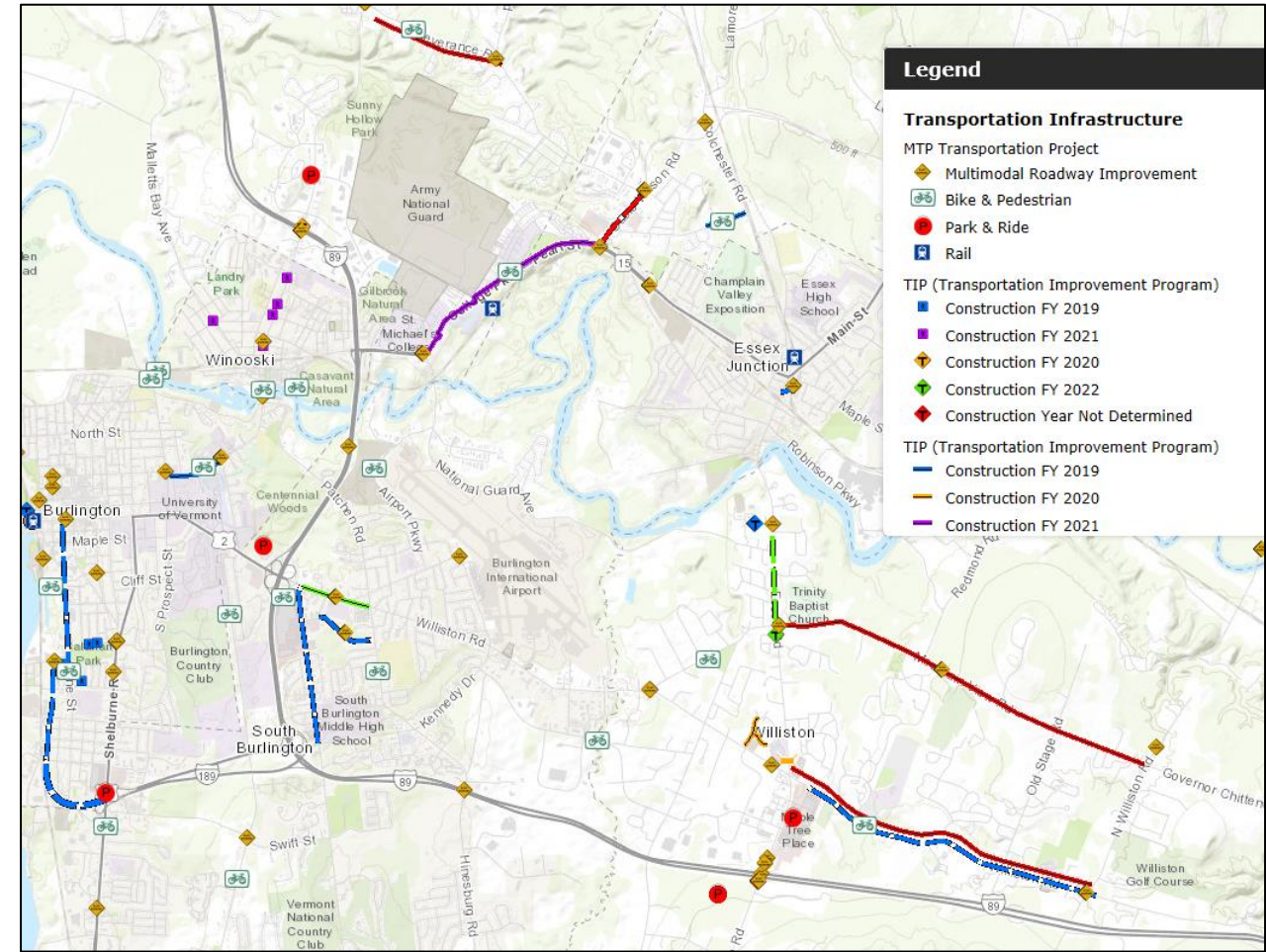
Enhancing walking, biking & transit



Increasing livability by investing in areas planned for growth

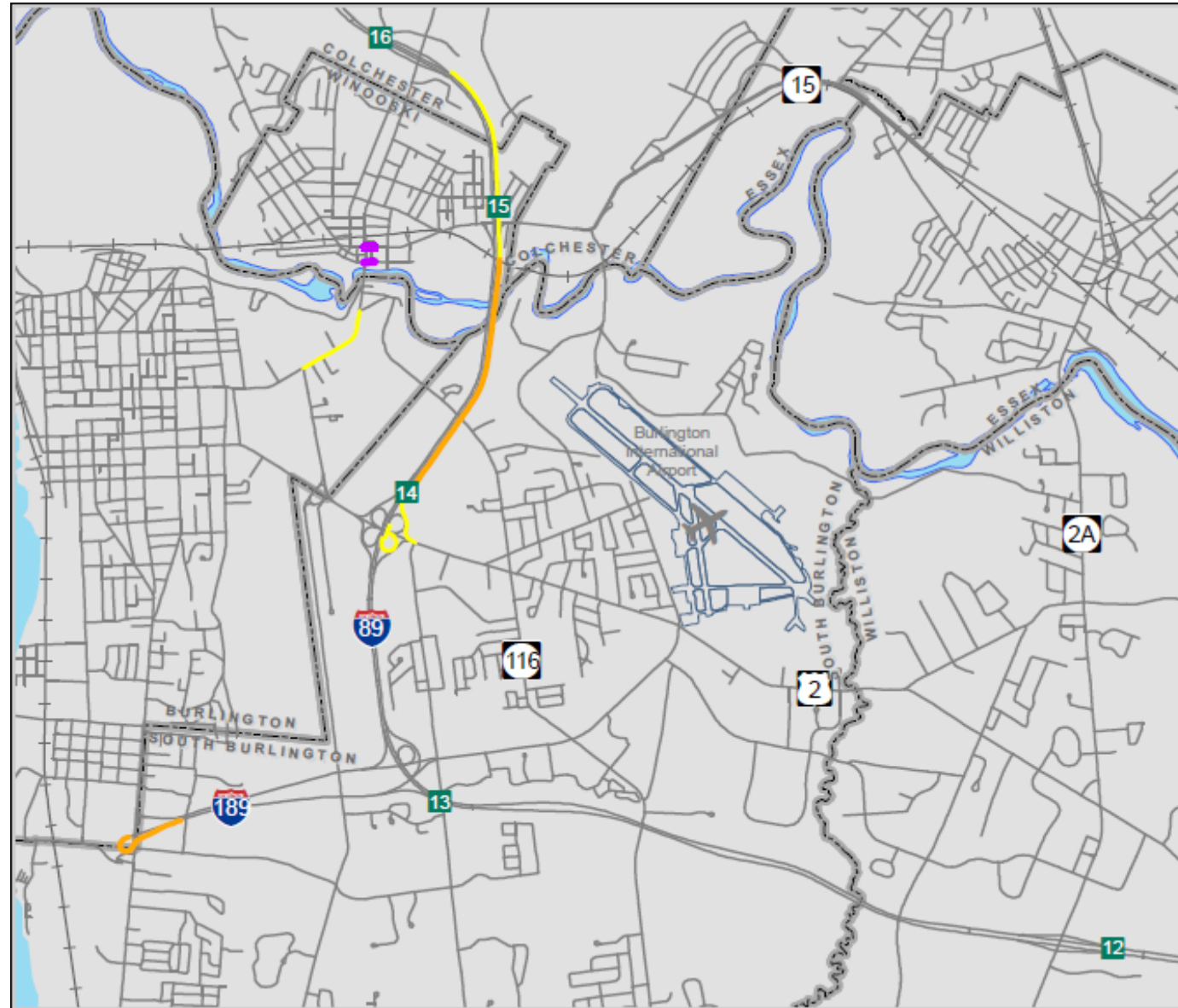
Planning Framework – Future Transportation Investments (2050)

- **Major Transportation Projects:** Champlain Parkway, Exit 12, Exit 16, Exit 17 Improvements.
- **Enhanced Transit Service:** 15-minute headways for all trunk routes and 20 to 30-minute headways on all other routes.
- **Other Enhancements:** Major bike/ped system expansion, ITS investments, TDM programs, Safety enhancements, Partial fleet electrification, System maintenance
- **Investment:** Approximately **\$450 million** through 2050



Roadway Capacity - 2015

- Balance possible I-89 widening vs. local road improvements
- Pursue alternative ways to reduce congestion
 - Transit, HOV lane, Connected & Autonomous Vehicles
- Increase funding share for alternative modes

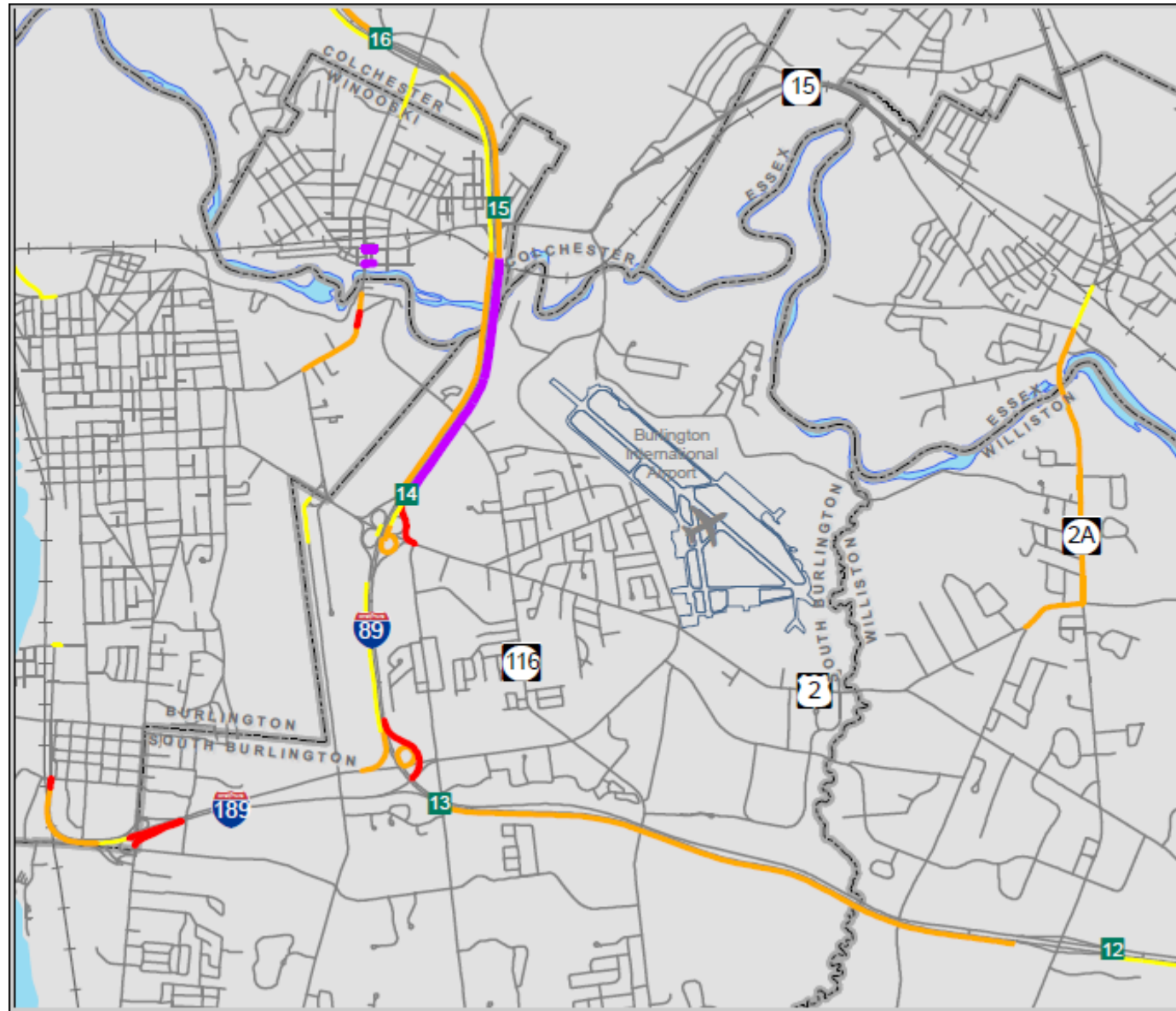


Congestion Levels (v/c ratio)

- Light Congestion (0.70 - 0.79)
- Moderate Congestion (0.80 - 0.89)
- Severe Congestion (0.90 - 1.00)
- Over Capacity (> 1.00)

Roadway Capacity – 2050 Base

- Balance possible I-89 widening vs. local road improvements
- Pursue alternative ways to reduce congestion
 - Transit, HOV lane, Connected & Autonomous Vehicles
- Increase funding share for alternative modes

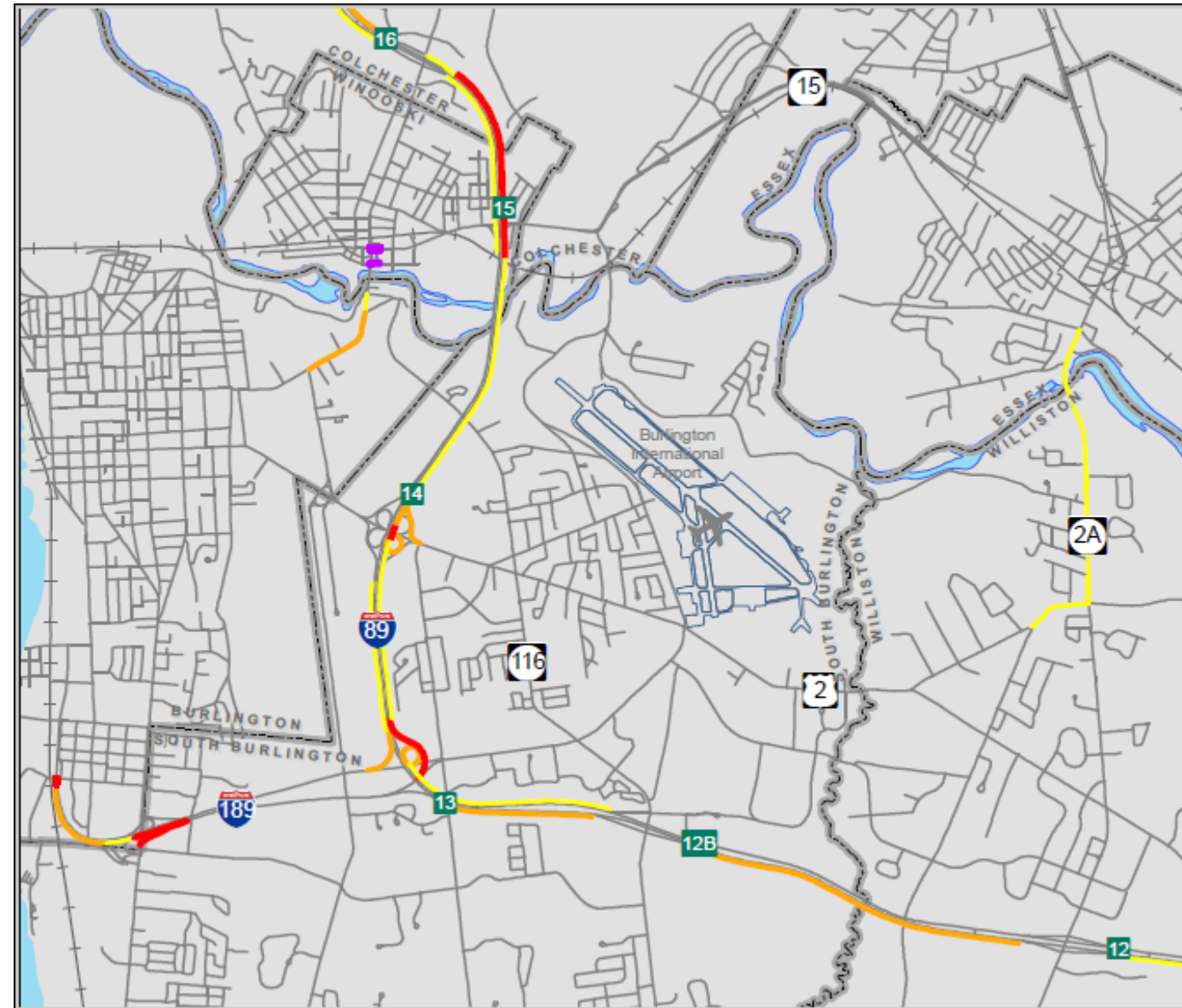


Congestion Levels (v/c ratio)

- Light Congestion (0.70 - 0.79)
- Moderate Congestion (0.80 - 0.89)
- Severe Congestion (0.90 - 1.00)
- Over Capacity (> 1.00)

Roadway Capacity – MTP Network

- Balance possible I-89 widening vs. local road improvements
- Pursue alternative ways to reduce congestion
 - Transit, HOV lane, Connected & Autonomous Vehicles
- Increase funding share for alternative modes



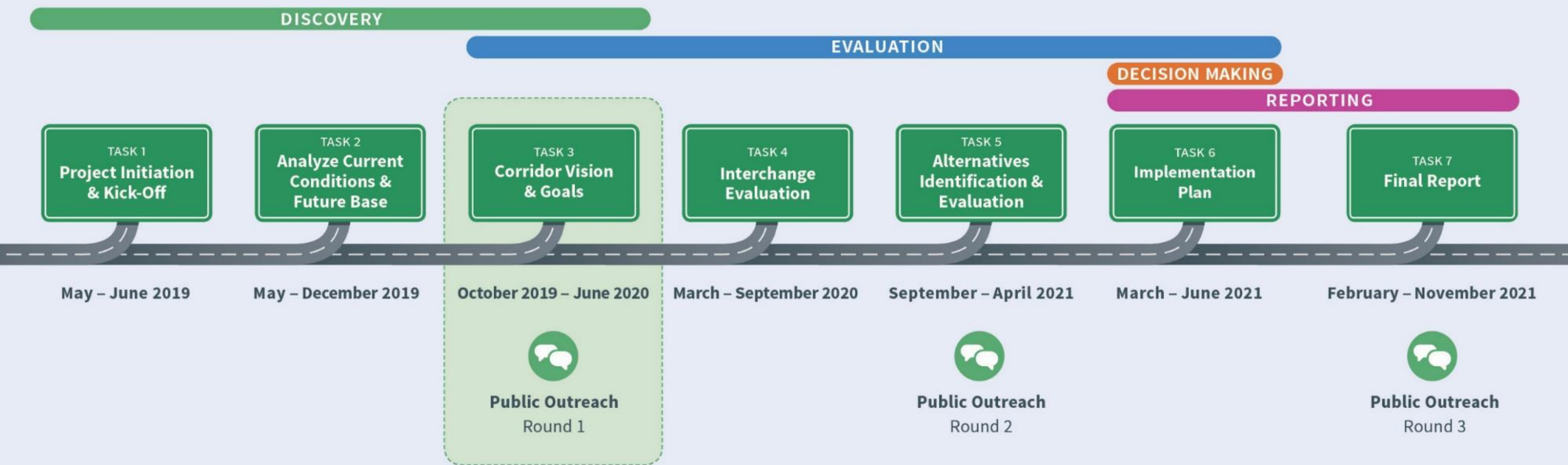


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I-89 2050 Study

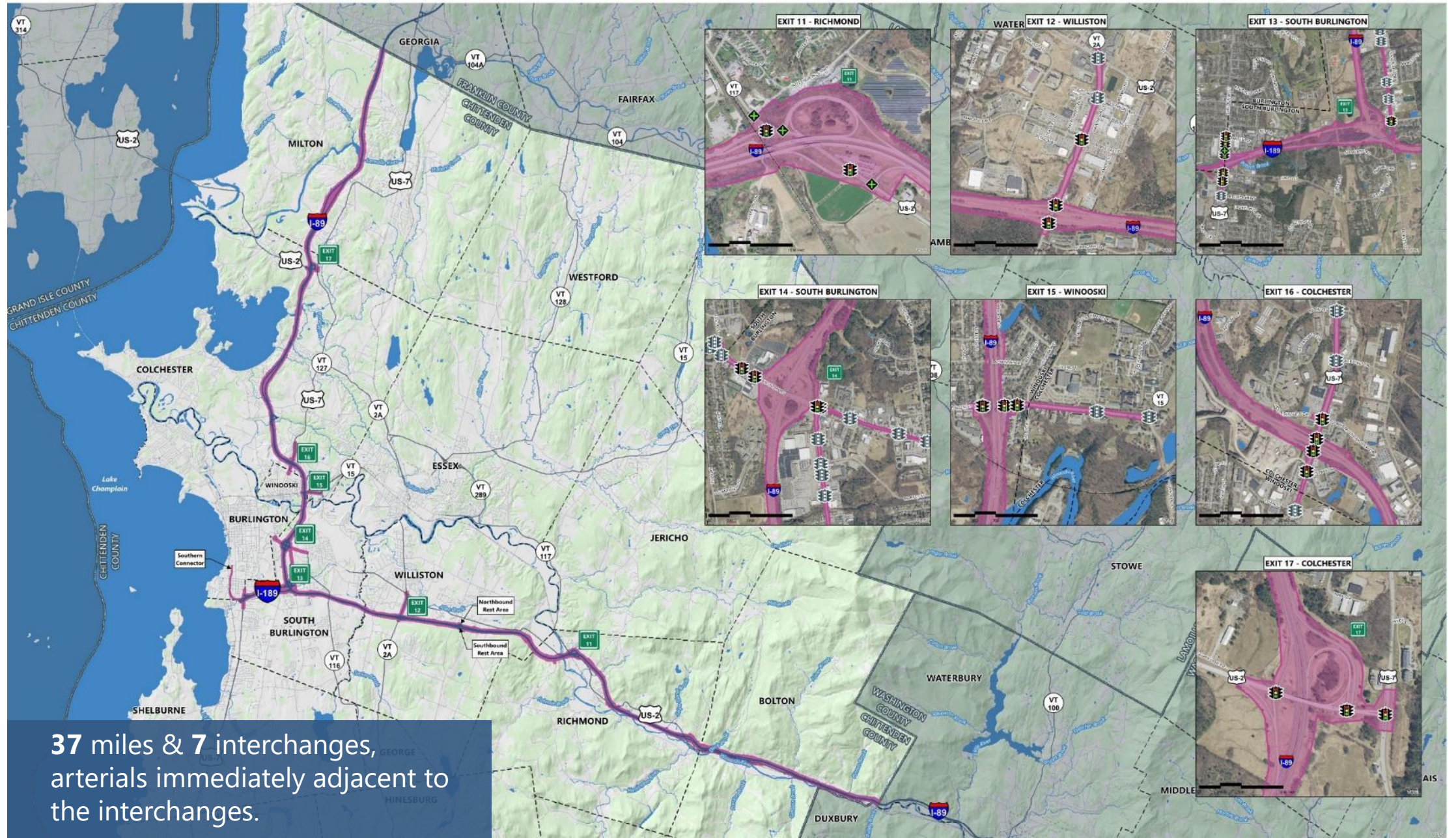
Project Overview

Project Overview

Our schedule for successfully moving from project kick-off through stakeholder engagement and technical evaluations to develop a comprehensive, forward-looking plan for the I-89 corridor.



Project Study Area



Project Study Area (Burlington Area)





Corridor Issues & Opportunities



Chittenden County
I-89 2050 Study

Existing & Anticipated Corridor & Interchange Issues

- **Highway & Intersection Capacity**

- I-89 Forecasted Traffic Volumes
- Interchange/Intersection Level of Service

- **Safety**

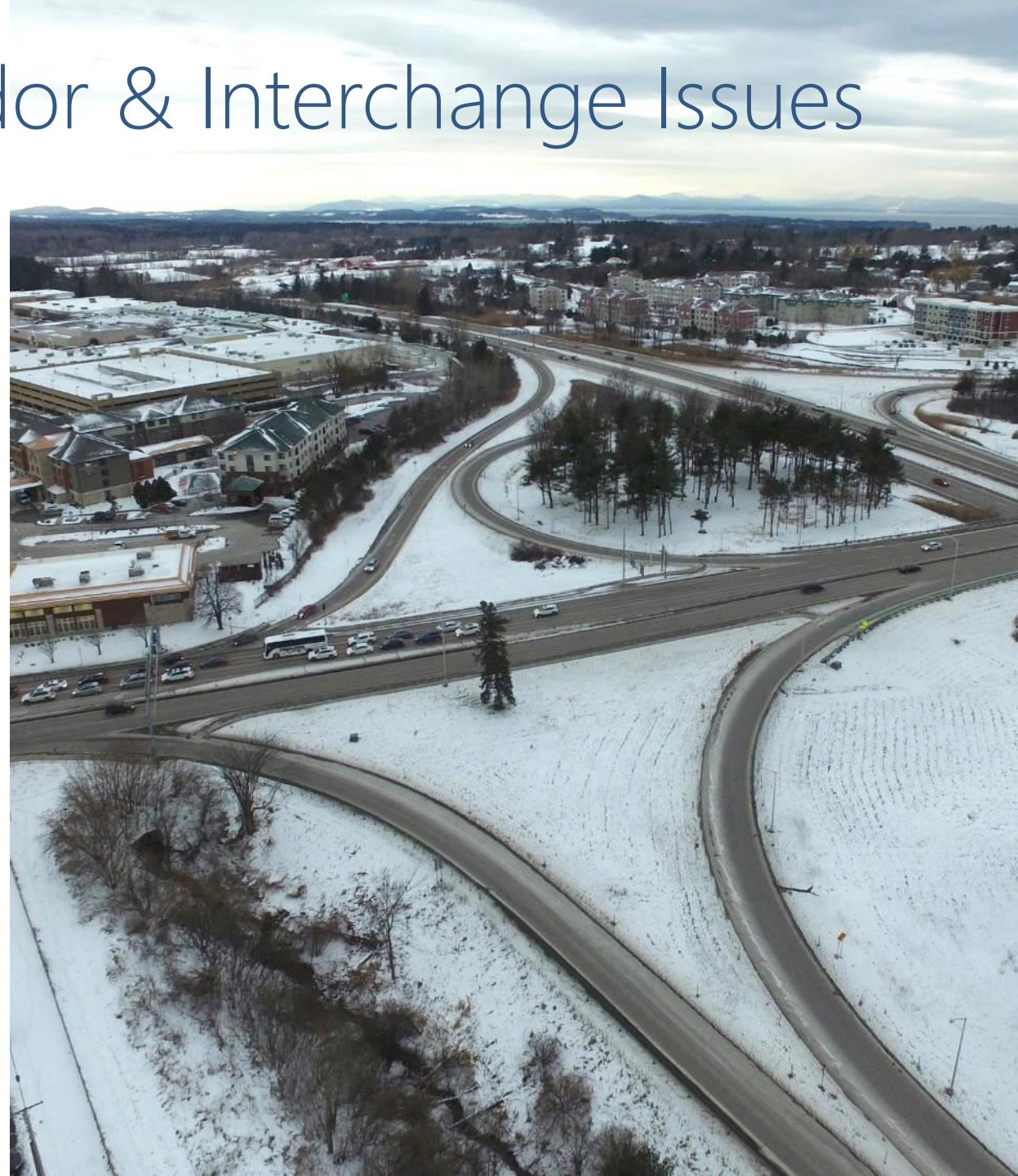
- High Crash Locations
- Location of Injury & Fatal Crashes

- **System Deficiencies**

- Interchange Geometric Design Deficiencies
- Structurally Deficient Bridges & Culverts

- **Connectivity**

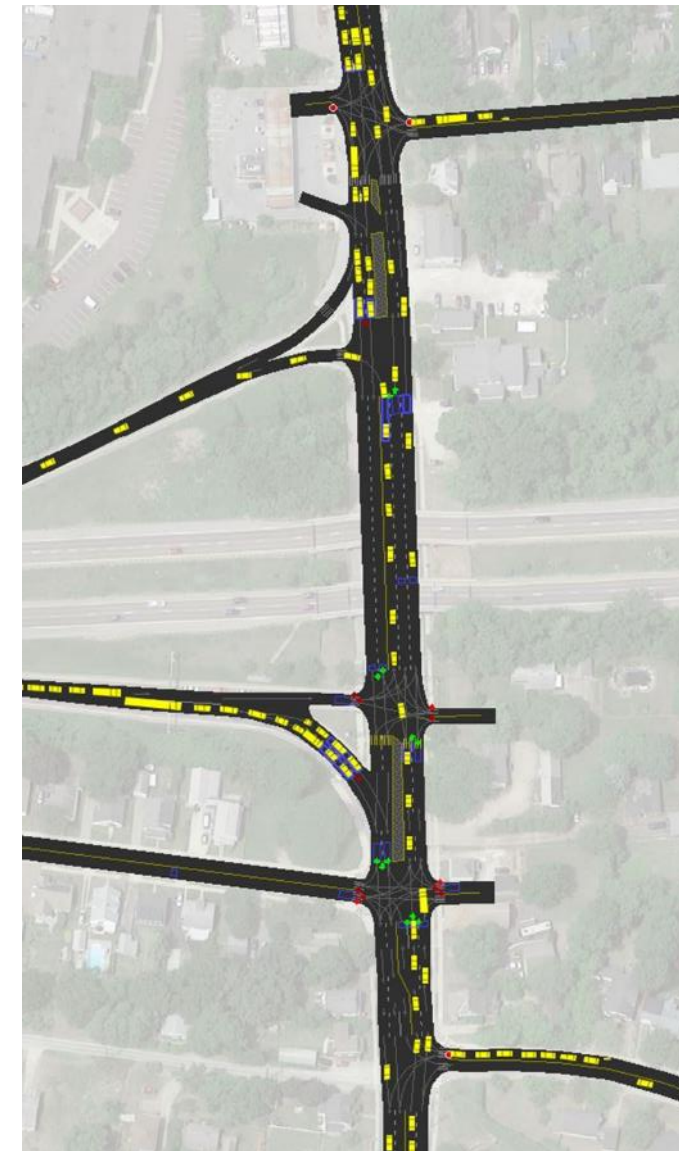
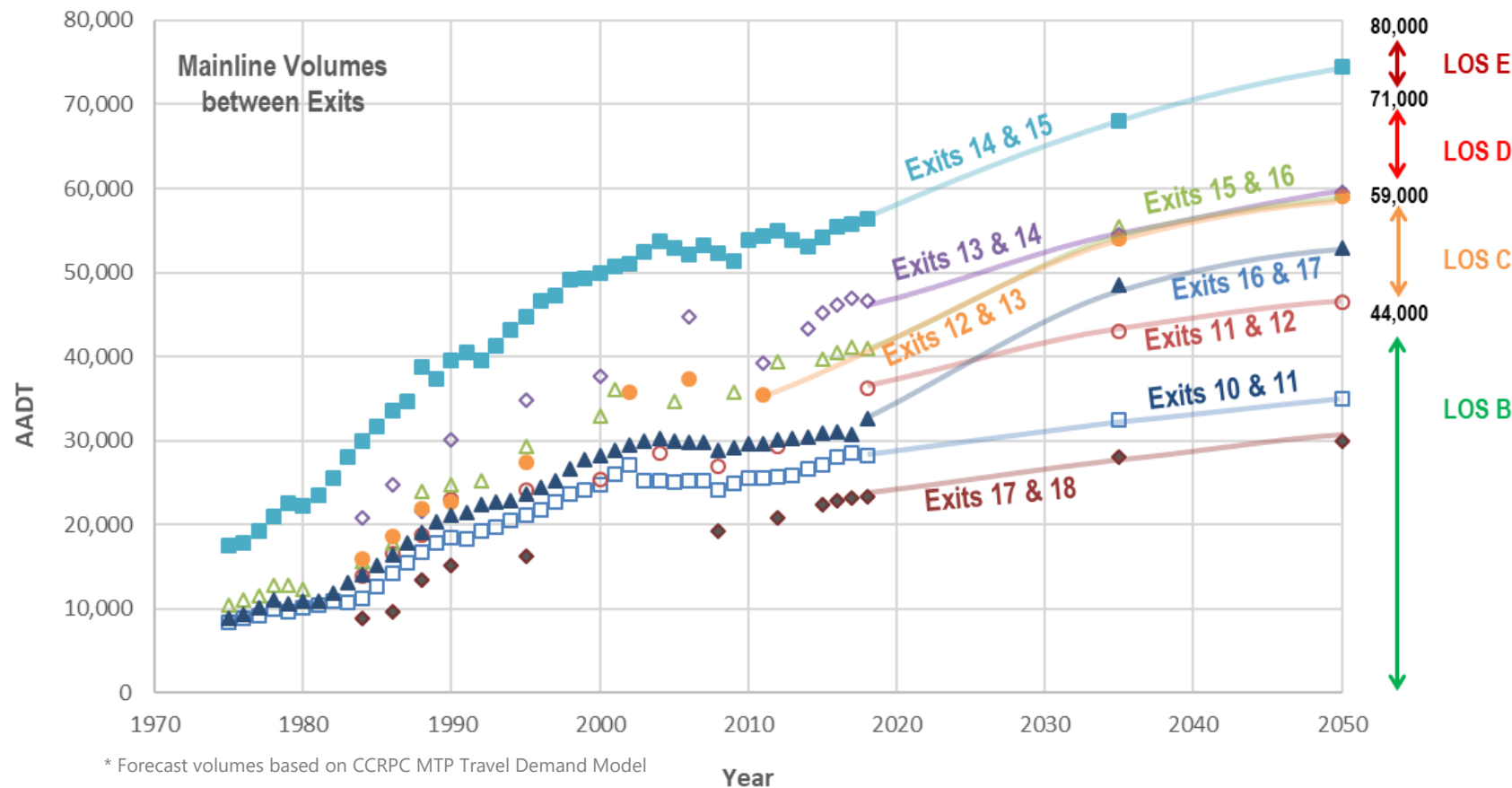
- Obstacles for Regional Bike/Ped Connectivity



Highway Capacity

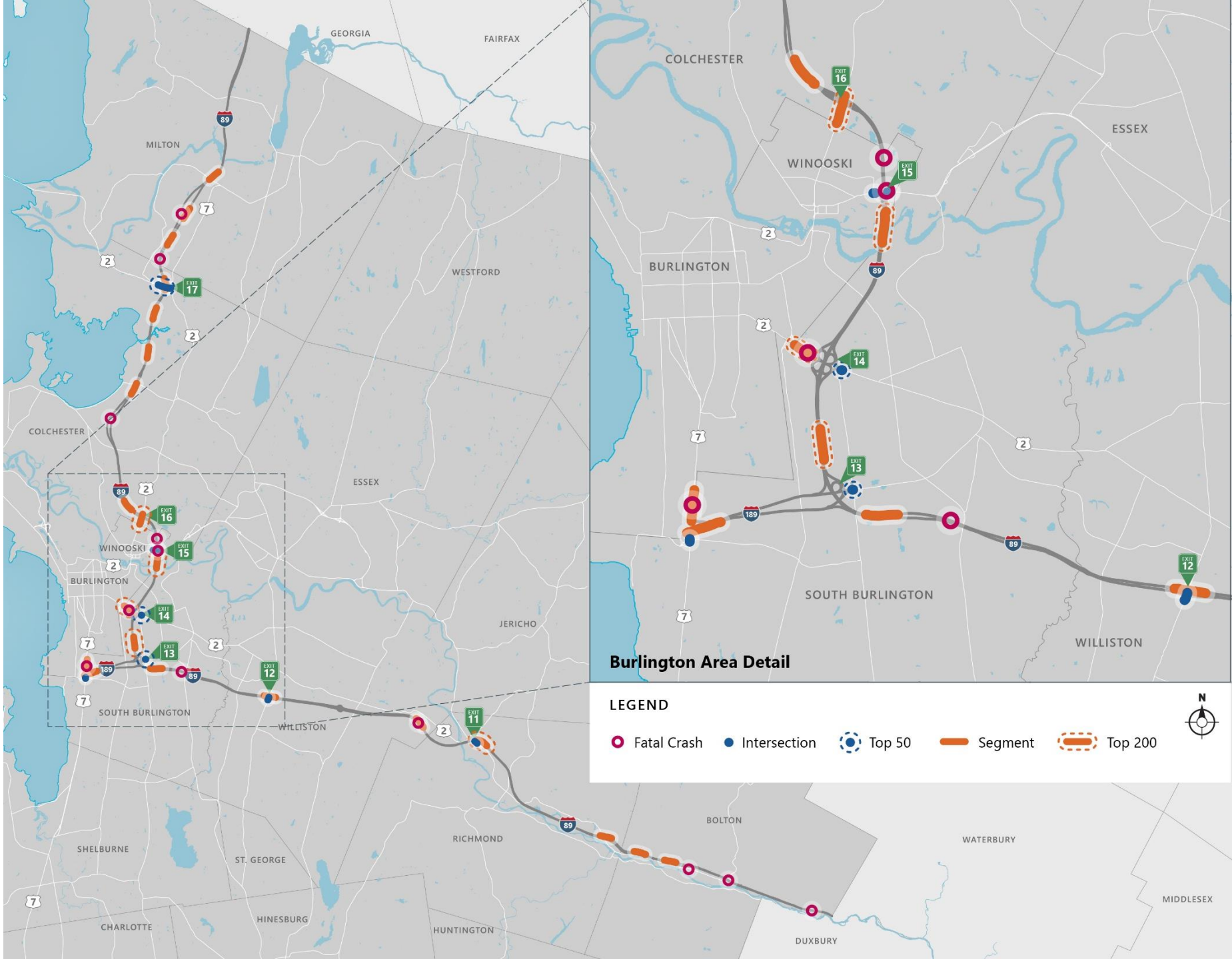
■ I-89 Current and Forecasted Volumes by Segment

- I-89 volumes projected to exceed capacity between Exits 14 and 15 between 2035 & 2050



Safety

- High Crash Locations & Fatal Crashes








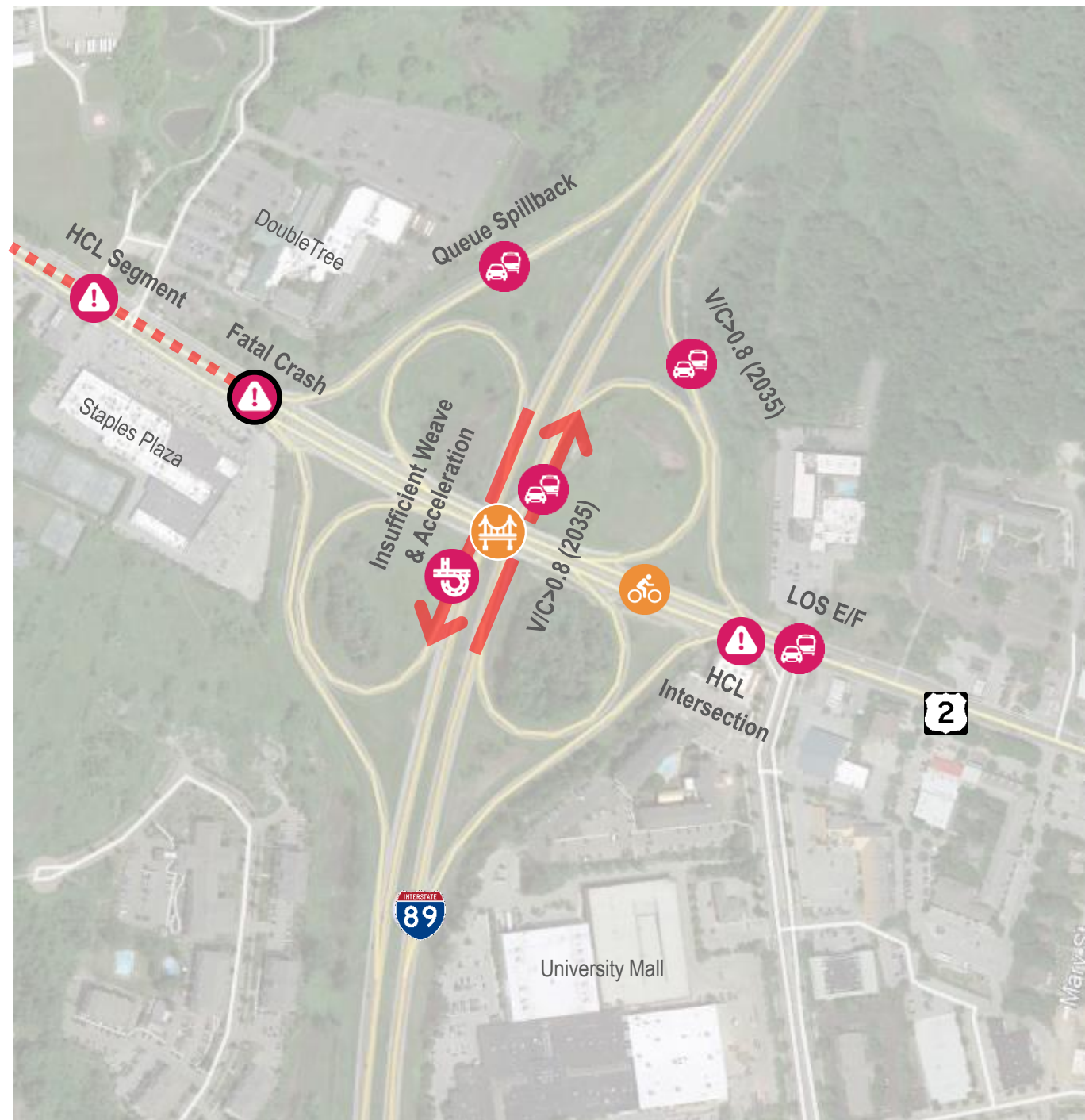
Other Issues Evaluated

- High Crash Locations
- Crashes Rates & Fatal Crashes
- Structurally Deficient Bridges & Culverts
- Geometric Deficiencies
- Environmental Resources
- Bike/Ped Connections



Exit 14 | S. Burlington

Metric	Rating	Notes
Congestion		<ul style="list-style-type: none"> v/c > 0.8: WB-NB on-ramp, NB weave segment Williston/Dorset intersection LOS E/F in 2020
Safety		<ul style="list-style-type: none"> HCL Segment (US 2) HCL Intersection (Dorset St) Fatal crash
Geometric Deficiencies		<ul style="list-style-type: none"> Insufficient acceleration & weave distances
Structural Deficiencies		<ul style="list-style-type: none"> US 2 bridge Functionally Deficient
Bike/Ped Connectivity		<ul style="list-style-type: none"> High priority connection Uncomfortable for most users Bike lanes and sidewalks in place





DISCUSSION: Issues & Opportunities for the Corridor

- **What *Issues* Do You Experience on the I-89 Corridor?**
 - Congestion? Safety? Accessibility? Maintenance?
 - Where Do You Experience These Issues?
 - How Often Do You Generally Experience These Issues?
- **What Improvement *Opportunities* Do You See for the I-89 Corridor?**
 - Mainline? Interchanges? Intersections?





Draft Vision & Goals



Chittenden County
I-89 2050 Study

I-89 Draft Corridor Vision, Goals, Objectives

DRAFT Vision Statement

The 2050 Vision for the I-89 Corridor through Chittenden County is an interstate system (mainline and interchanges) that is **safe** and **resilient** and provides for **reliable** and **efficient movement of people and goods** in alignment with state, regional, and municipal plans.

I-89 Draft Corridor Vision, Goals, Objectives

DRAFT Goals

- **Safety:** Enhance safety along the I-89 Study Corridor and Adjacent Interchanges for all users.
- **Mobility & Efficiency:** Improve the efficiency and reliability of the I-89 Corridor and Adjacent Interchanges for all users.
- **Environmental Stewardship & Resilience:** Establish a resilient I-89 Corridor that minimizes environmental impacts associated with the transportation system.
- **Economic Access & Vitality:** Improve economic access and vitality in Chittenden County.
- **Livable, Sustainable and Healthy Communities:** Promote livable, affordable, vibrant, and healthy communities.
- **System Preservation:** Preserve and improve the condition and performance of the I-89 Corridor.

I-89 Draft Corridor Vision, Goals, Objectives



Chittenden County I-89 2050 Study

Overview: Development of the Vision, Goals, and Objectives for the I-89 Corridor is one of the *most important* elements of this study as it will guide decisions related to screening of alternatives. The Draft text below has been developed in coordination with the Technical and Advisory Committees. Public input will be summarized and reviewed by the Technical Committee before being finalized by the Advisory Committee later in 2020.

DRAFT Vision Statement

The 2050 Vision for the I-89 Corridor through Chittenden County is an interstate system (mainline and interchanges) that is safe and resilient and provides for reliable and efficient movement of people and goods in alignment with state, regional, and municipal plans.

DRAFT Goals & Objectives

1. **Safety: Enhance safety along the I-89 Study Corridor and Adjacent Interchanges for all users.**
 - a) Reduce the frequency and severity of crashes along the I-89 Study Corridor and at adjacent interchanges.
 - b) Enhance safety of bicyclists and pedestrians at interchanges.
 - c) Improve incident response.
2. **Mobility & Efficiency: Improve the efficiency and reliability of the I-89 Corridor and Adjacent Interchanges for all users.**
 - a) Accommodate current and anticipated future traffic demand.
 - b) Maintain reliable travel times for people and goods along the corridor.
 - c) Improve network connectivity to support walking & bicycling through the study area interchanges.
 - d) Accommodate current and future public transportation services.
3. **Environmental Stewardship & Resilience: Establish a resilient I-89 Corridor that minimizes environmental impacts associated with the transportation system.**
 - a) Improve water quality and stormwater treatment.
 - b) Improve the ability to withstand and recover from extreme weather events.
 - c) Reduce greenhouse gas emissions associated with fossil fuels used in transportation.
 - d) Improve wildlife and habitat connectivity.
4. **Economic Access & Vitality: Improve economic access and vitality in Chittenden County.**
 - a) Support anticipated economic growth in the region.
 - b) Accommodate freight and goods movement served by the I-89 Corridor.
5. **Livable, Sustainable and Healthy Communities: Promote livable, affordable, vibrant, and healthy communities.**
 - a) Encourage transportation investments that result in land use patterns that are consistent with state, regional and municipal goals and plans.
 - b) Ensure that transportation improvements do not disproportionately impact low income and minority populations.
6. **System Preservation: Preserve and improve the condition and performance of the I-89 Corridor.**
 - a) Provide for sound and effective maintenance and preservation activities to achieve a State of Good Repair of the I-89 Corridor.





Wrap Up & Next Steps



Chittenden County
I-89 2050 Study

Wrap Up / Next Steps

■ Completed

— Public Outreach Round 1 (January – March 2020)

- I-89 Issues and Opportunities
- I-89 Vision and Goals

■ Next Steps

— Analyses of New/Improved Interchanges in Chittenden County (Spring – Fall 2020)

- High-level evaluations of 7 interchanges
- Detailed evaluations of up to 3 interchanges

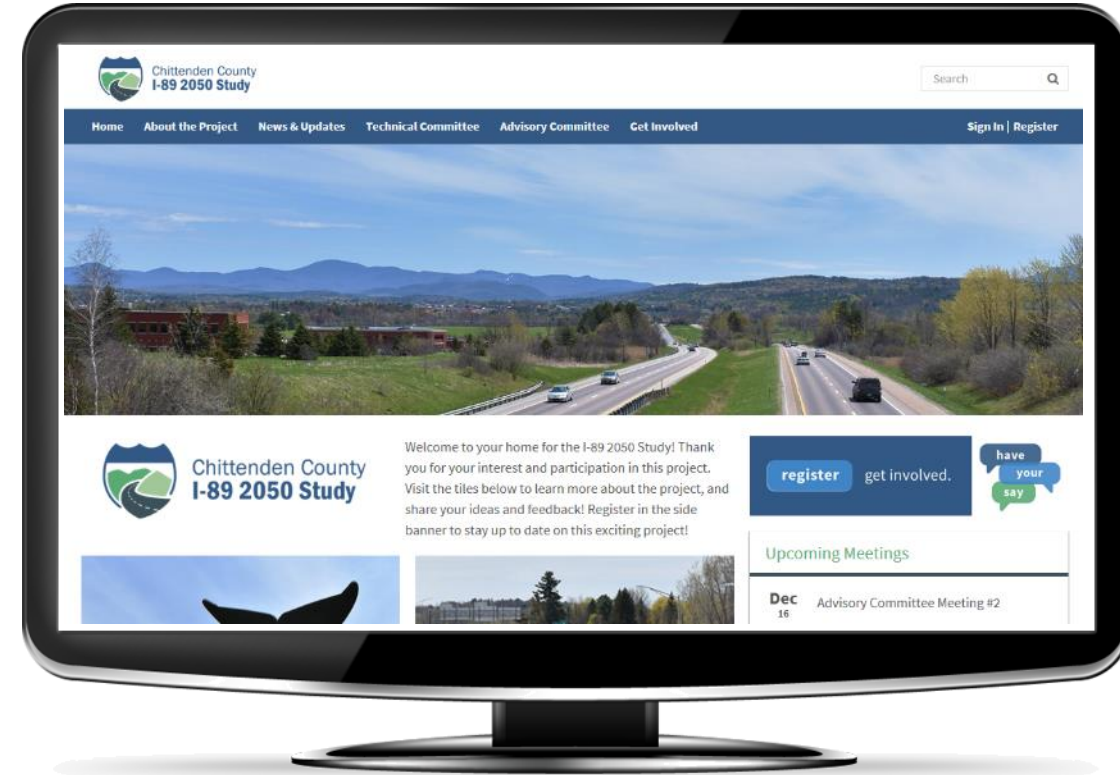
— Public Outreach Round 2 (Winter 2020/21)

- Review and comment on recommended actions and strategies for the corridor

— Public Outreach Round 3 (Fall 2021)

- Review and comment on Draft Final Report

Stay Connected!



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Twitter: [@envision89](https://twitter.com/envision89)

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Chittenden County
I-89 2050 Study

Thank you!