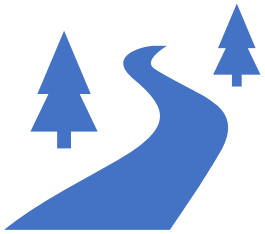
Chittenden County Safety Action Plan

CCRPC TAC Presentation – May 6, 2025

Safe Streets for All (SS4A) Grant Program

The Chittenden County Regional Planning Commission (CCRPC) is developing a Regional Safety Action Plan for the county to apply for an SS4A Grant.



This grant is for creating a **Comprehensive Roadway Safety Action Plan** for Chittenden County.

With this plan, the region will be eligible to apply for **Implementation** or **Demonstration** grants.

More Info:

Link: Safe Streets and Roads for All Program Facts

Link: Zero Deaths and Safe System | FHWA

Chittenden County RPC
Communities Planning Together

vhb

Requirements for SS4A Eligibility

Must meet all three of these criteria

1. Action Plan Includes:
   - Analysis of existing conditions and historical trends to baseline the level of fatal and serious injury crashes across Chittenden County
   - Analysis of crash locations, contributing factors, and crash types
   - Analysis of systemic and site-specific safety needs
   - Geospatial identification of higher risk locations
2. Comprehensive set of projects and strategies, time ranges for their deployment, and project prioritization criteria
3. Plan finalized or last updated within 5 years

Requirements for SS4A Eligibility

A. Official commitment to goal of zero roadway fatalities and serious injuries, including a target date or intermediate targets

B. Identify a group/body responsible for developing, implementing, and monitoring the Action Plan

C. Action Plan performed public engagement and incorporate the feedback, and coordinated across government agencies

D. Action Plan included equity considerations, identified underserved communities, and assessed equity impacts of proposed projects and strategies

E. Action Plan assessed current policies, plans, guidelines, and standards and discusses revisions or replacements to improve how processes prioritize safety

F. Action Plan describes how progress will be measured, including outcome data, and is posted publicly online

CCRPC Regional Safety Vision and Goals

Improve Safety for All Users

- Develop a culture of transportation safety in the region
- Identify actions to move the needle on safety and mobility outcomes through data driven process
- Prioritize actions that address inequitable safety and mobility outcomes for the region
- Leverage action planning process to secure future SS4A implementation funds

Safety Action Plan Development

- Analyzed safety data and identified trends
- Identified *High Injury Network* and *Emphasis Areas*
- Identify countermeasures and project list
- Conduct engagement **We need your input!**
  - Transportation Advisory Committee
  - Survey
  - Public meeting(s)

What Crashes are Occurring

2019 – 2024 (YTD) Deaths and Serious Injuries

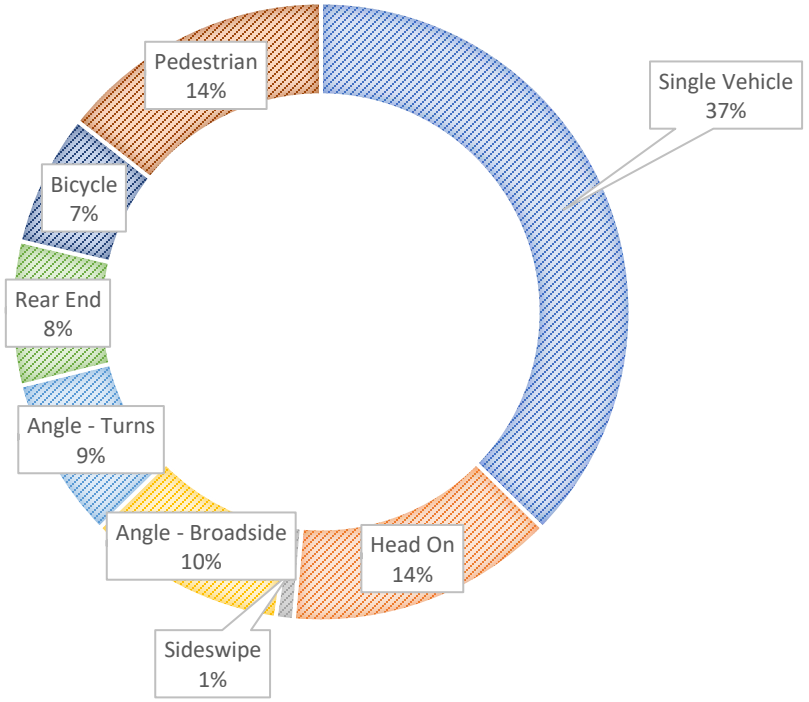
Person Type	Deaths	Serious Injury	Total
Driver	30	234	264
Pedestrian	9	39	48
Bicycle	2	19	21
Passenger	8	35	43
Total	**49**	**327**	**376**

½: Lane Departure

¼: Intersections

¼: Vulnerable Road Users

CRASH TYPES



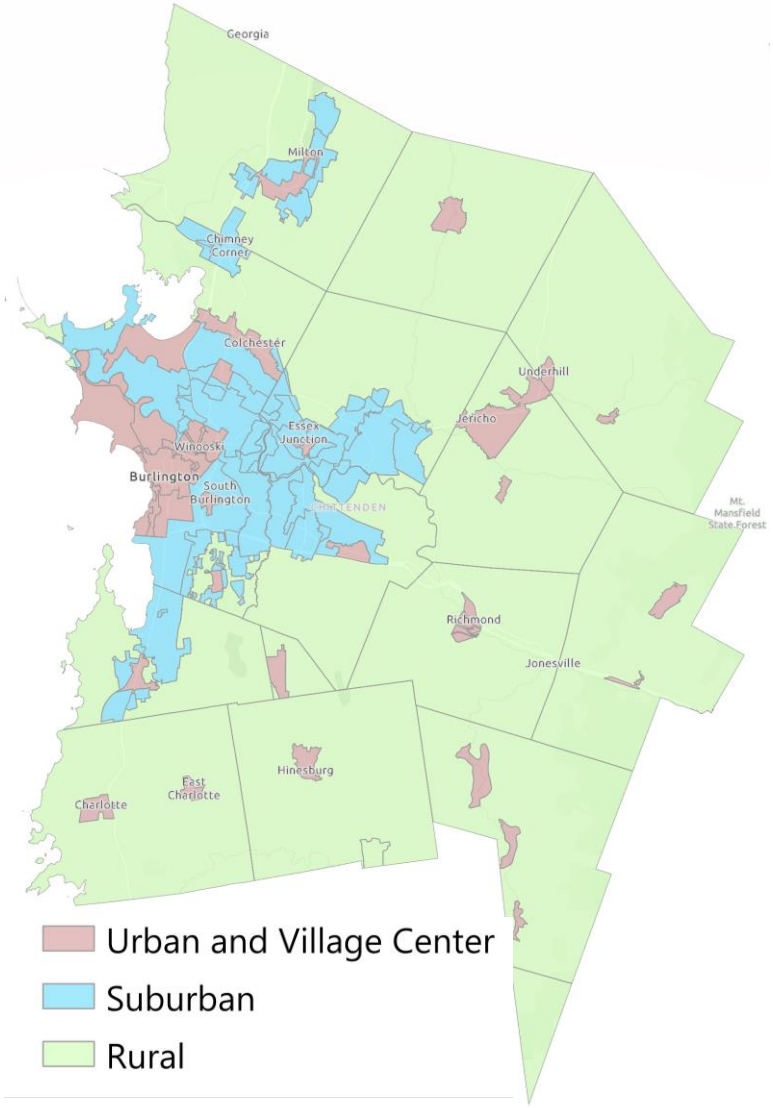
Where Crashes are Occurring

Distribution of Serious Crashes

	Urban & Village Center	Suburban	Rural
LANE DEPARTURE	25	39	79
INTERSECTIONS	21	32	12
VRU	32	31	5

** Other: 45 (15%)*

Leading Area for Plan



Emphasis Areas

Target Plan Distribution (of safety recommendations that will be made)

½: Lane Departure

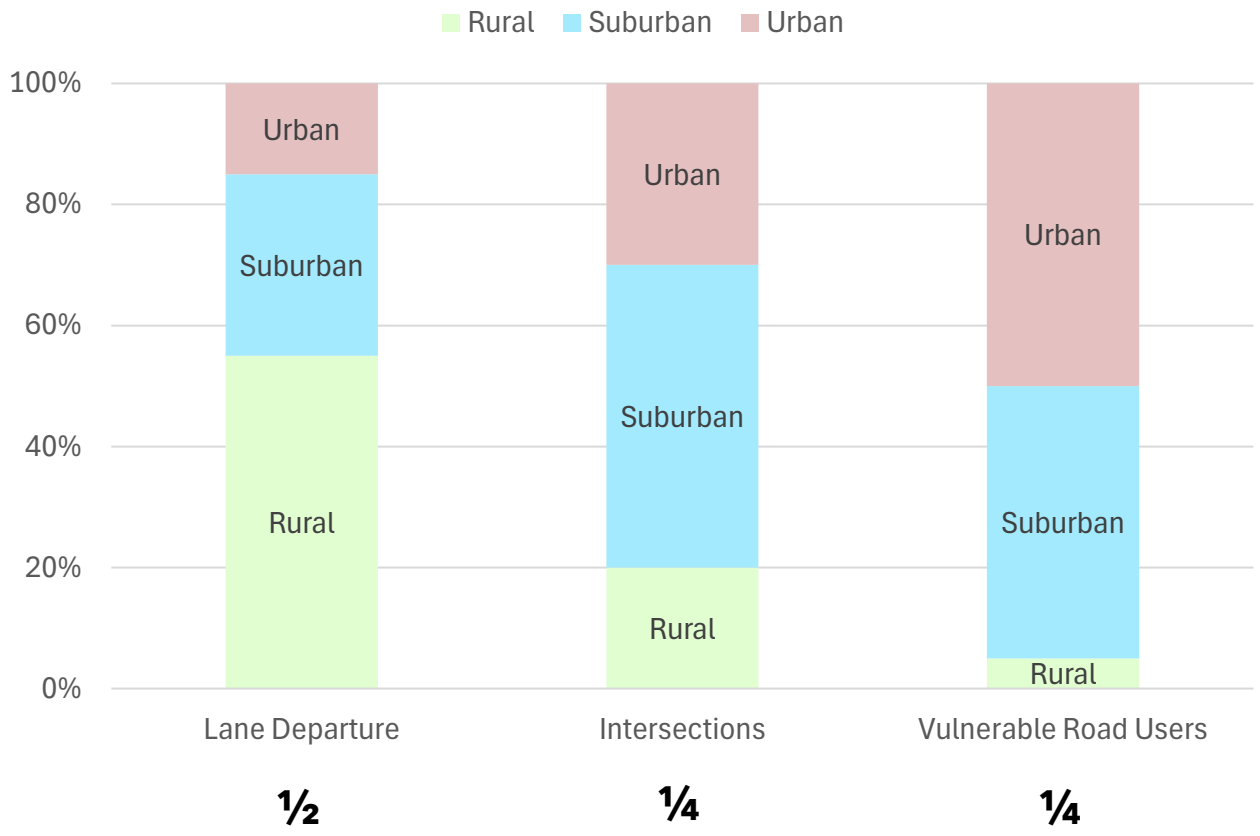
¼: Intersections

¼: Vulnerable Road Users

⅓: Suburban

⅓: Rural

⅓: Urban



High Injury Network

Projects in the plan will be on our roads with the most ***fatalities*** and ***serious injuries***

Maximizes Benefit:Cost ratio

The High Injury Network

(shown in next slides)

Includes **52% of serious crashes**

On only **4.5% of public road mileage**

High Injury Network

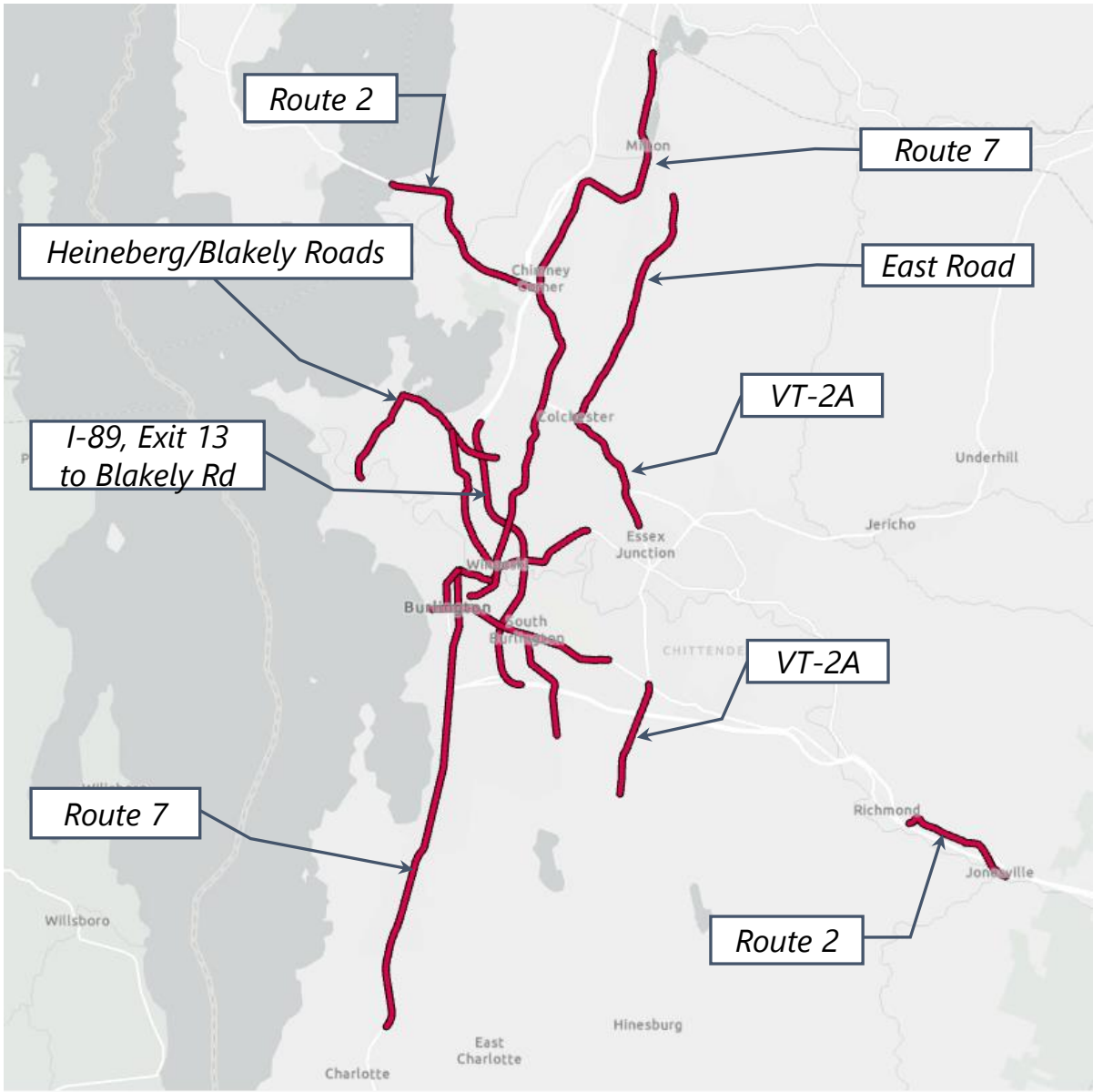
Regional Overview

(next slide – zoom in on urban core)

52% of serious crashes

4.5% of public road mileage

74 miles
166 serious crashes



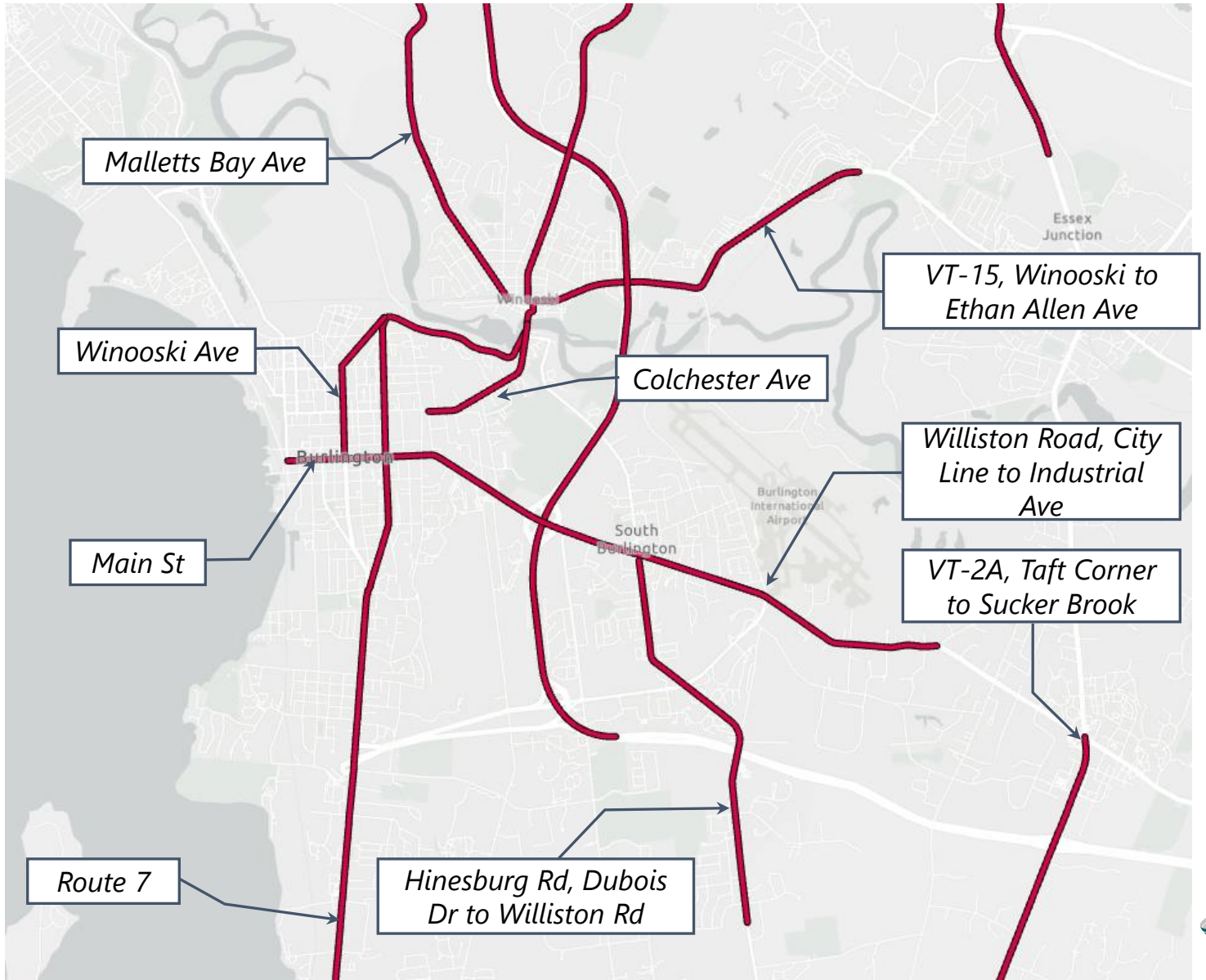
High Injury Network

52% of serious crashes

4.5% of public road mileage

74 miles
166 serious crashes

We will look to apply proven safety countermeasures to the High Injury Network
(next slides)



Lane Departure Safety Focus

		Applicable countermeasures
Rural State Highways		10' paved shoulder
		2-4 feet centerline buffer
	Rural Class 2 Highways	Repair potholes and rutting
		Advance warning signs
		5' paved shoulder
		Chevrons or delineators
		Center rumble strips
		Edge line rumble strips
		Remove fixed objects / flatten sideslopes in clear zones
		Guardrail or cable barrier
		6-inch edge lines
		High visibility pavement markings
		Replace weathered and damaged signs

	Applicable countermeasures
Urban and Suburban Arterials & Collectors	Repair potholes and rutting
	Advance warning signs
	High visibility pavement markings
	Two way center left turn lane
	Replace weathered and damaged signs
Secondary Roads	Chevrons or delineators
	Context-appropriate roadside design
	Replace weathered and damaged signs

50% of Plan Projects

Lane Departure	Intersections	Vulnerable Road Users

Intersection Safety Focus

			Applicable countermeasures
Signalized Intersections			Retroreflective backplates
			Recalculate timing, including yellow and all-red
			Add protected turn phase if warranted
	Unsignalized with Major Road or Major Driveway		Add turn lanes where warranted
			Remove turn lanes where not warranted
			Shoulder bypass lane, if warranted
			Implement an access management plan
			Add or remove all-way stop control
			Lighting evaluation for IEEE standard
		Low Volume Intersections	Clear sight lines
			Advance warning signs where needed
			Replace weathered and damaged signs

25% of Plan Projects

Lane Departure	**Intersections**	Vulnerable Road Users

Vulnerable Road Users Safety Focus

Applicable countermeasures

Vulnerable Road Users	Bicycle lanes
	Active crossing control devices (RRFB, pedestrian hybrid beacon)
	Leading pedestrian interval
	Medians and refuge islands
	Sidewalk
	Bicycle box for two-stage left turns

25% of Plan Projects

Lane Departure	Intersections	Vulnerable Road Users

** Incorporate Existing Active Transportation Plans*

Advance projects with high safety scores such as:

- *Colchester/Barrett St ped/bike improvements*
- *Riverside Avenue path extension*
- *Shelburne Road & I-189 crossing improvements*

We want hear from you!

Survey (*Link*)
Please share your share your safety concerns and experiences traveling in the region.

Virtual Public Meeting (Tuesday, May 20th @ 6PM)
Join us to hear about plan development and share your input.

Please help us shape the Plan!