

Roanoke County

Safe Streets and
Roads for All

Comprehensive Safety Action Plan

Prepared by Timmons Group
Fall 2024



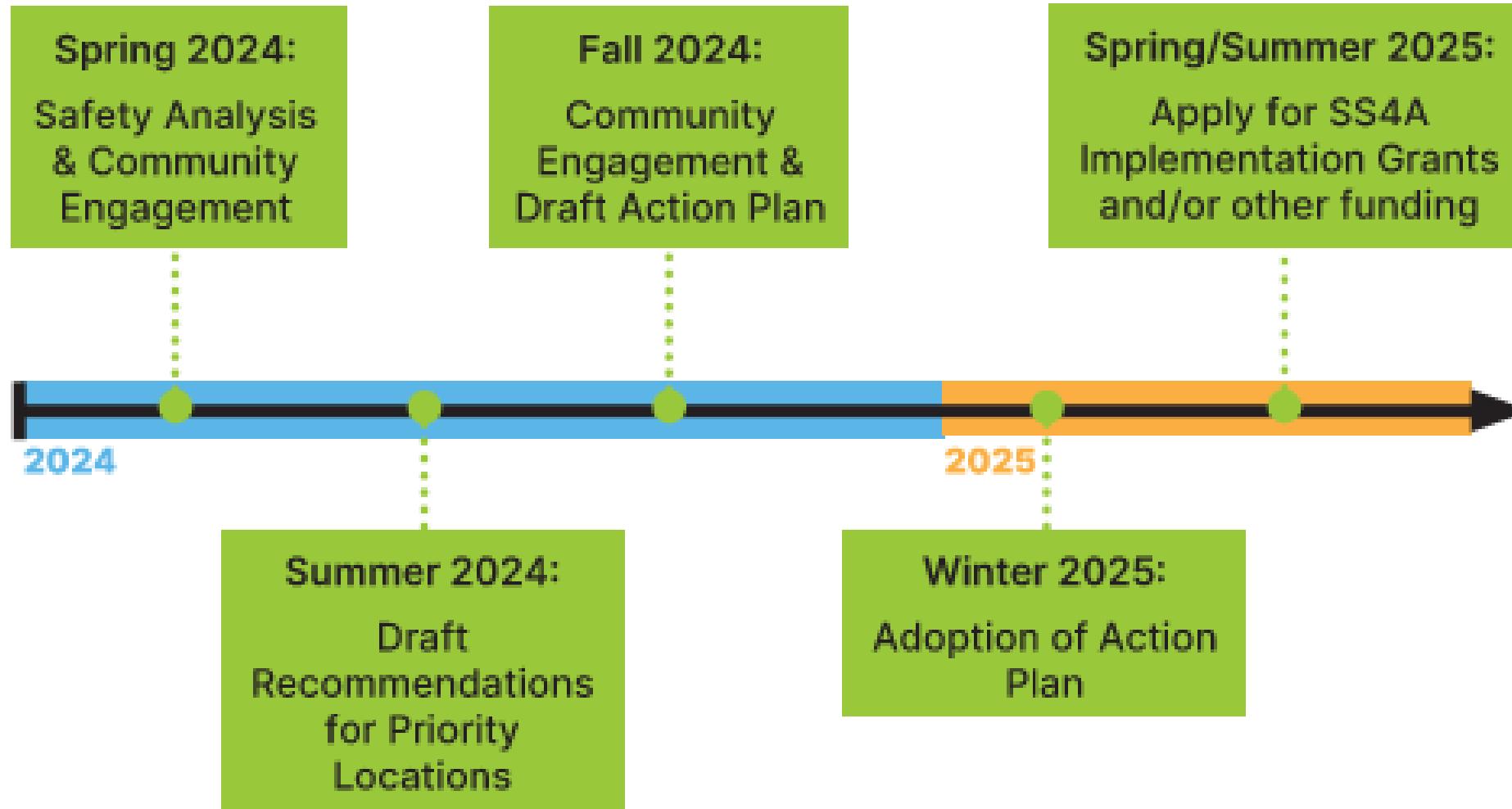
Planning Commission Update
December 3, 2024



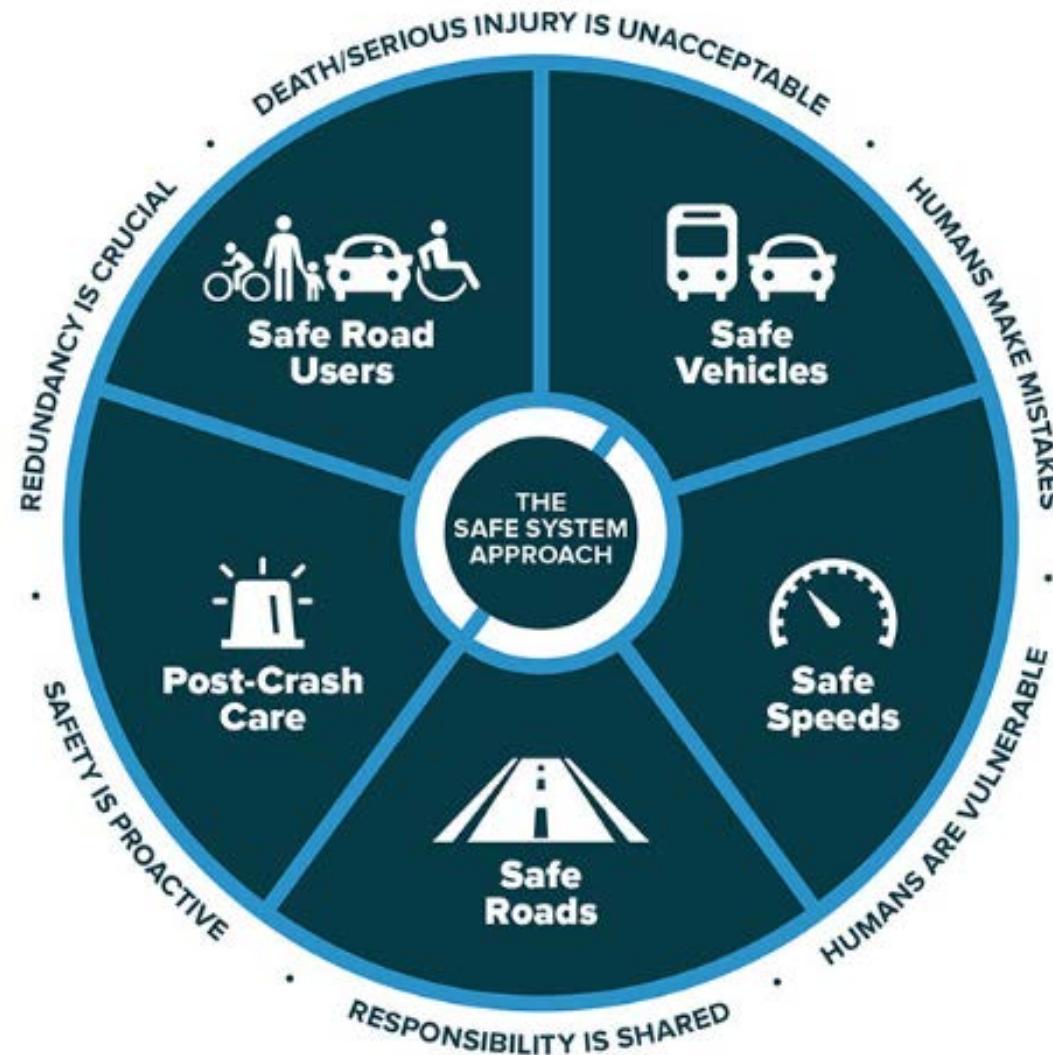
Agenda

- Project Schedule
- Safe Streets & Roads for All (SS4A)
- Crash Summary
- Community Engagement
- Input Needed
- Questions / Discussion

Project Schedule



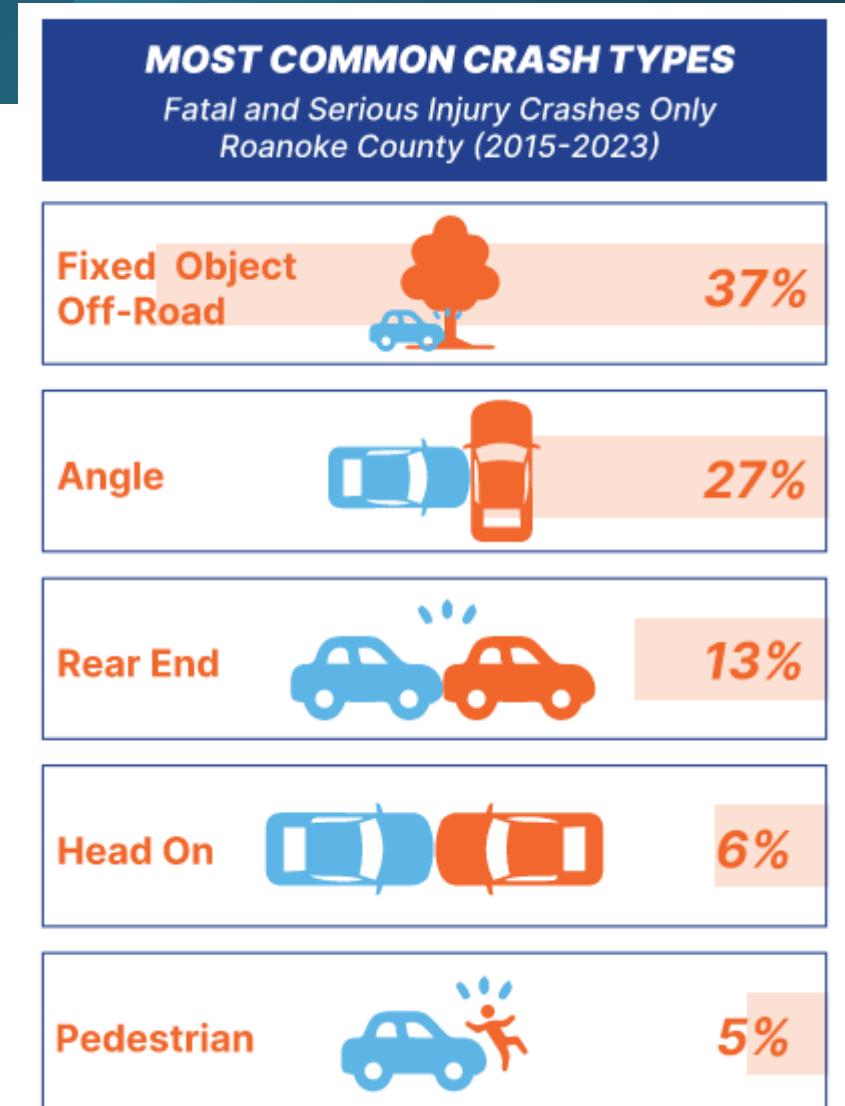
Safe System Approach



Crash Summary

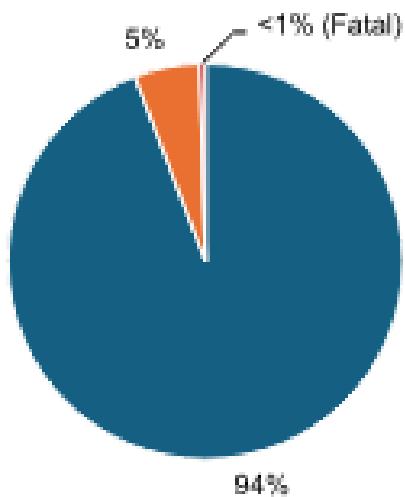


Figure 1. Severe Crashes by Year, Roanoke County (2015-2023)

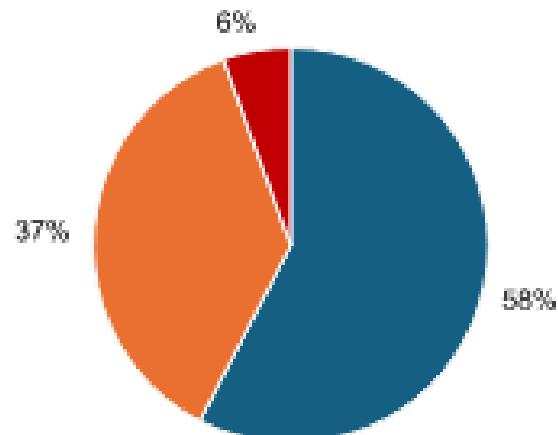


Crash Summary

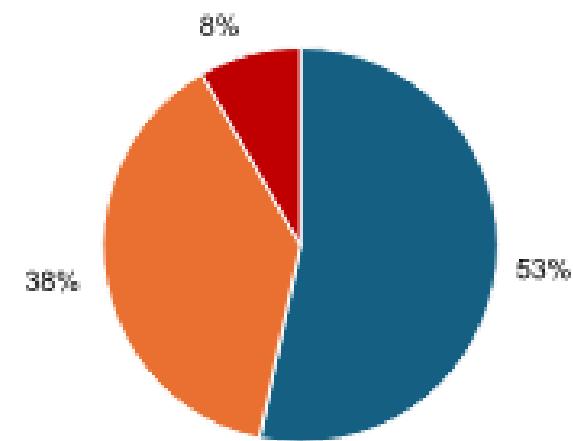
Crash Severity of Motorists



Crash Severity of Motorcyclists

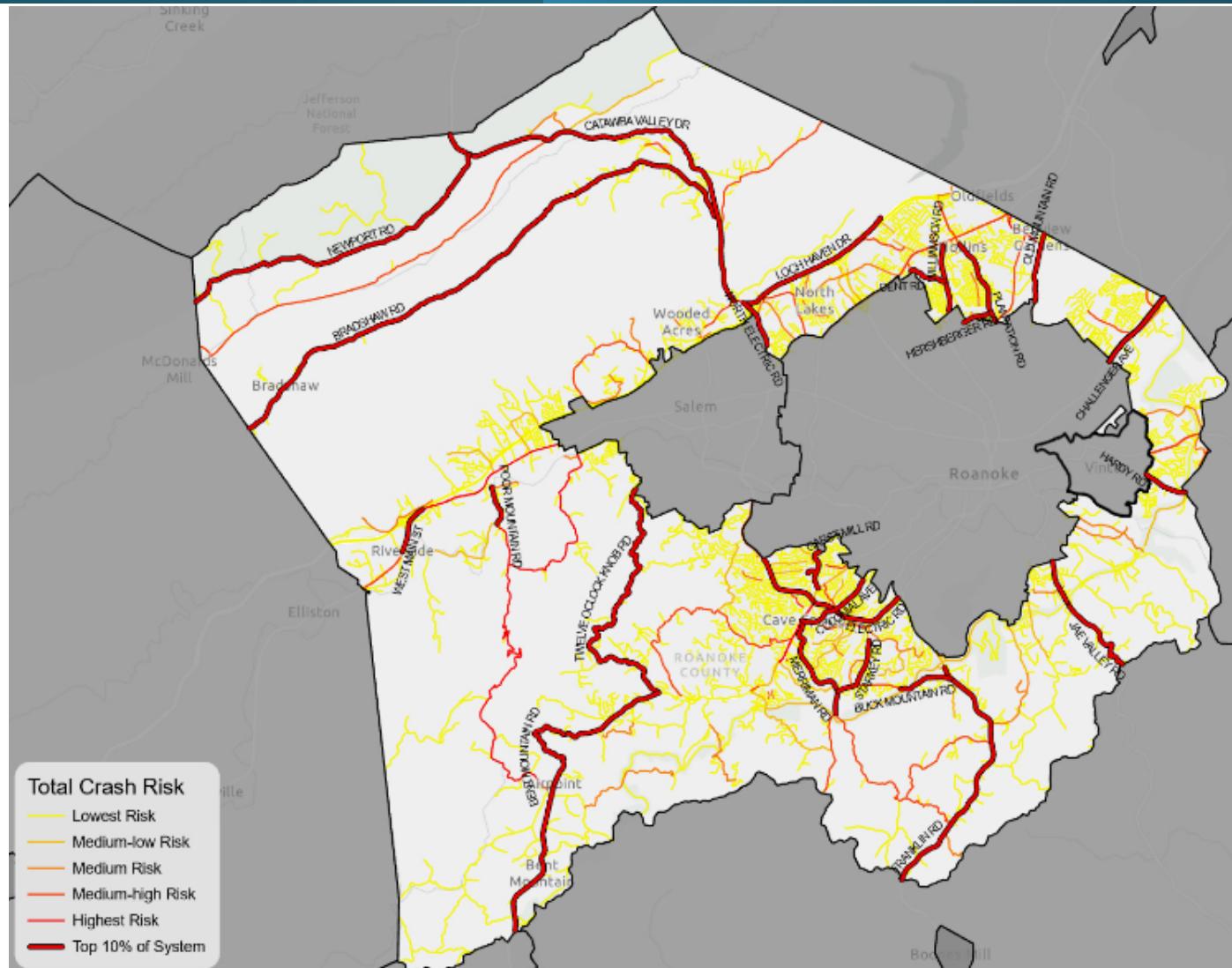
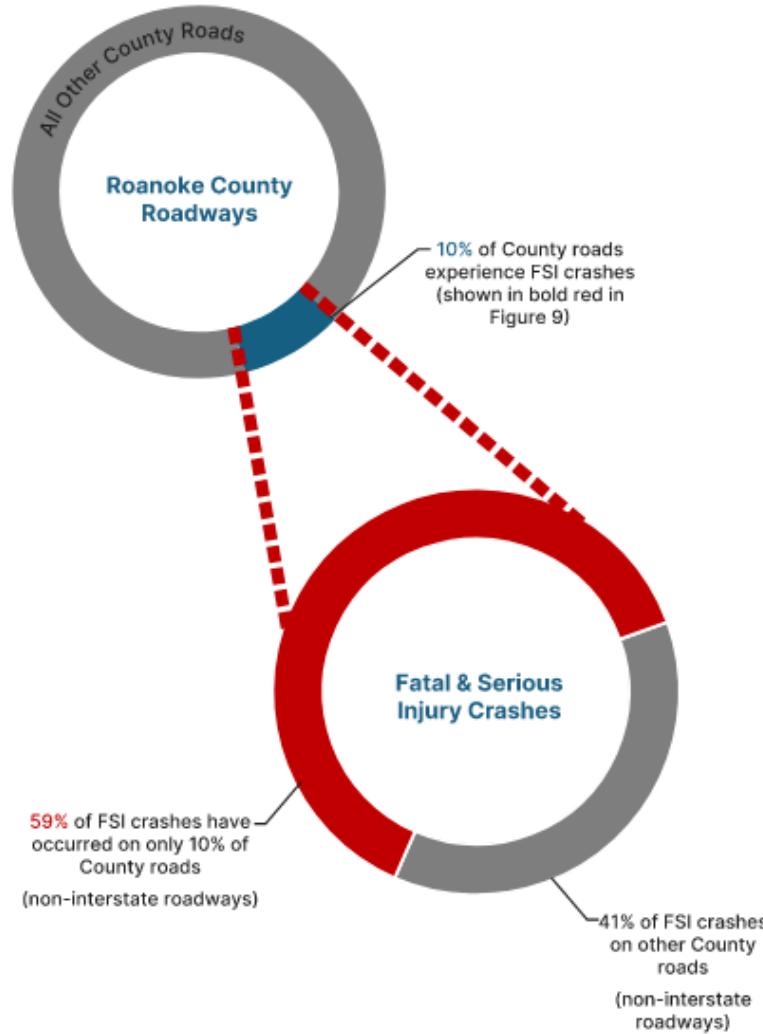


Crash Severity of Bicyclists & Pedestrians

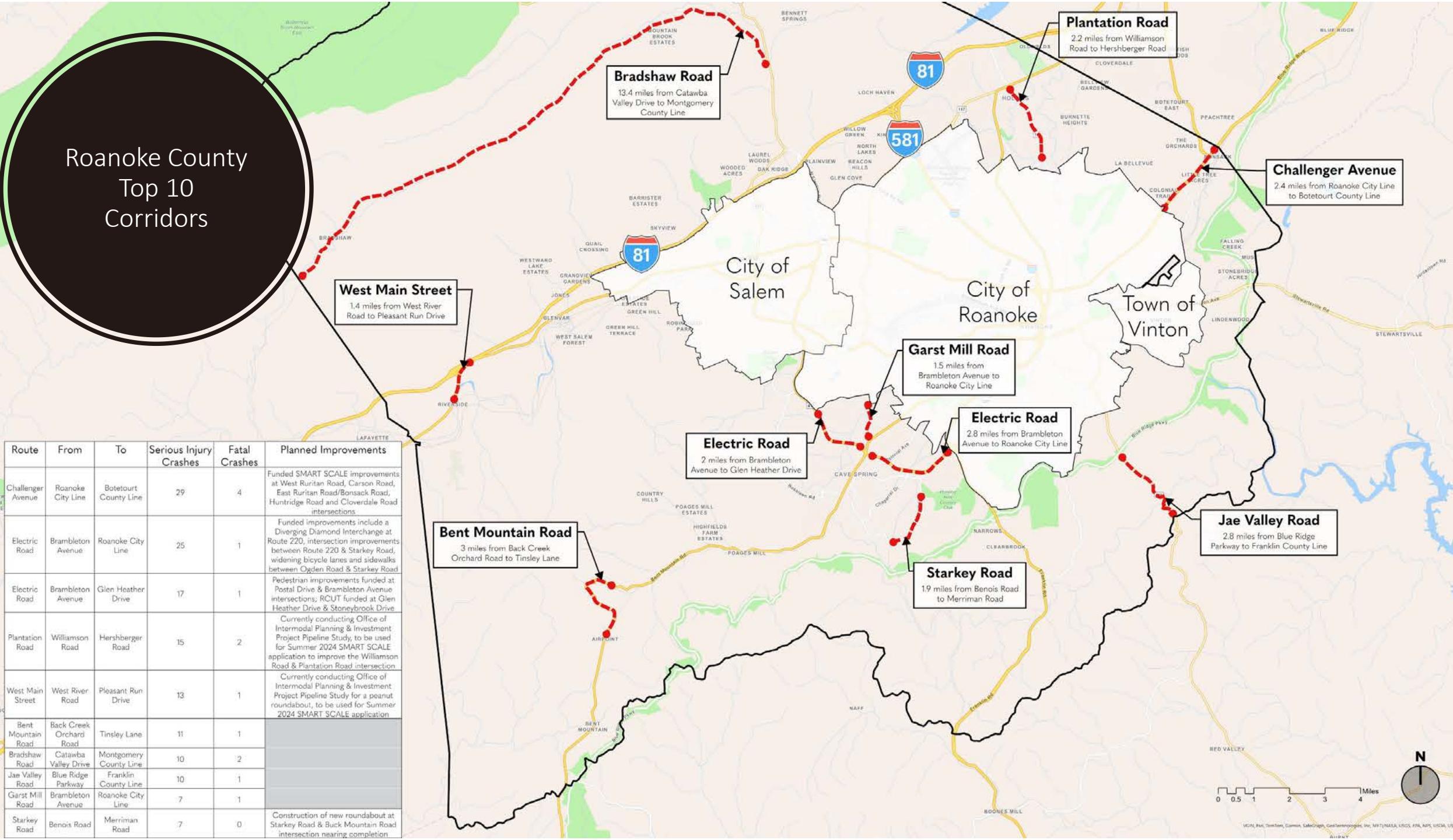


- **Serious Injuries**
- **Fatalities**
- **All Other Crash Types**

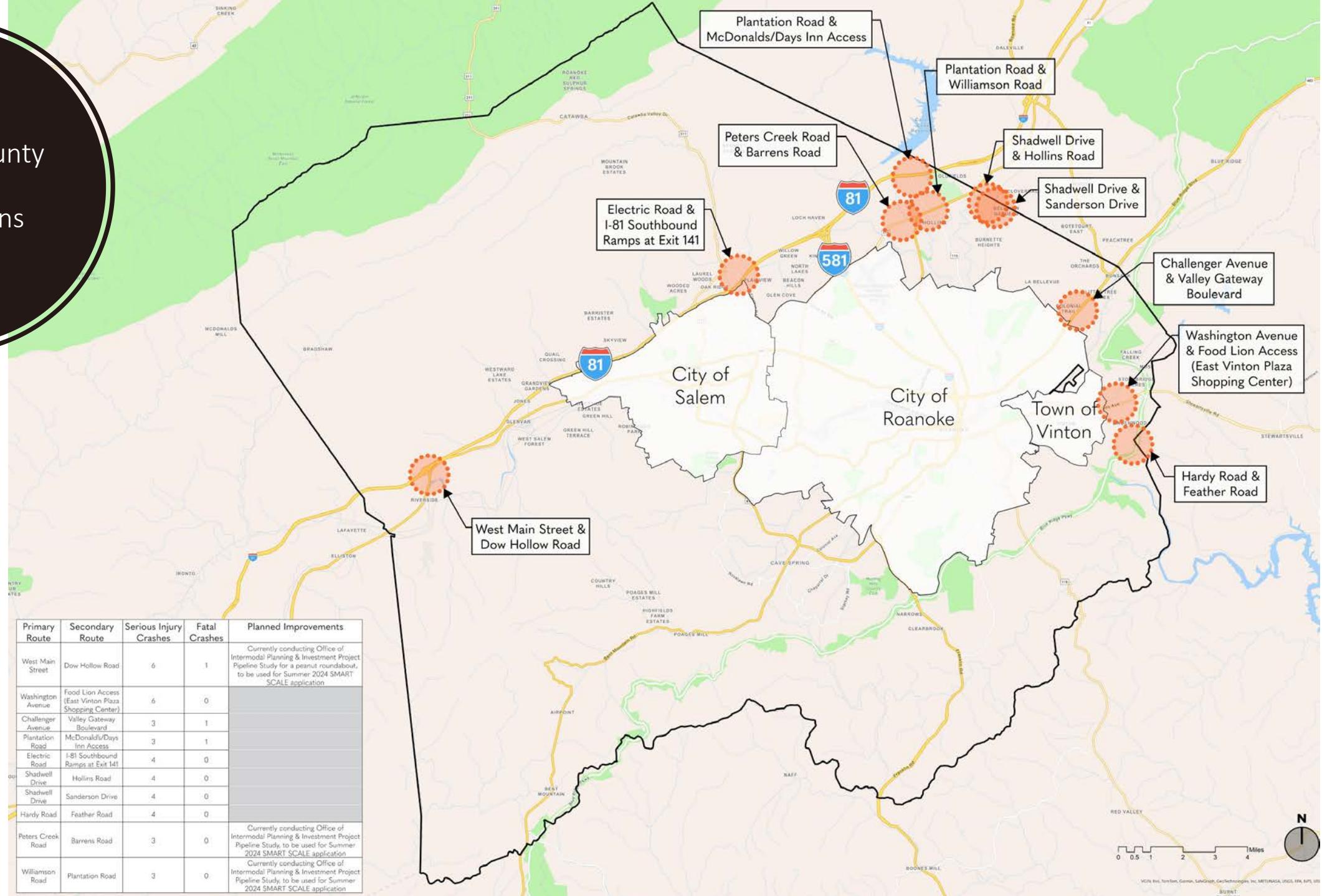
High Injury Network



Roanoke County Top 10 Corridors



Roanoke County Top 10 Intersections



Community Engagement

Community Meetings



Over
235 **75** **1,000**
survey total attendees total community
responses at in-person members
recorded meetings reached*

Spring 2024 Meetings

- Monday, April 29th from 5-7 pm: Roanoke County (South) at the Brambleton Center Gymnasium
- Thursday, May 2nd from 5-7 pm: Roanoke County (North) at the Hollins Library

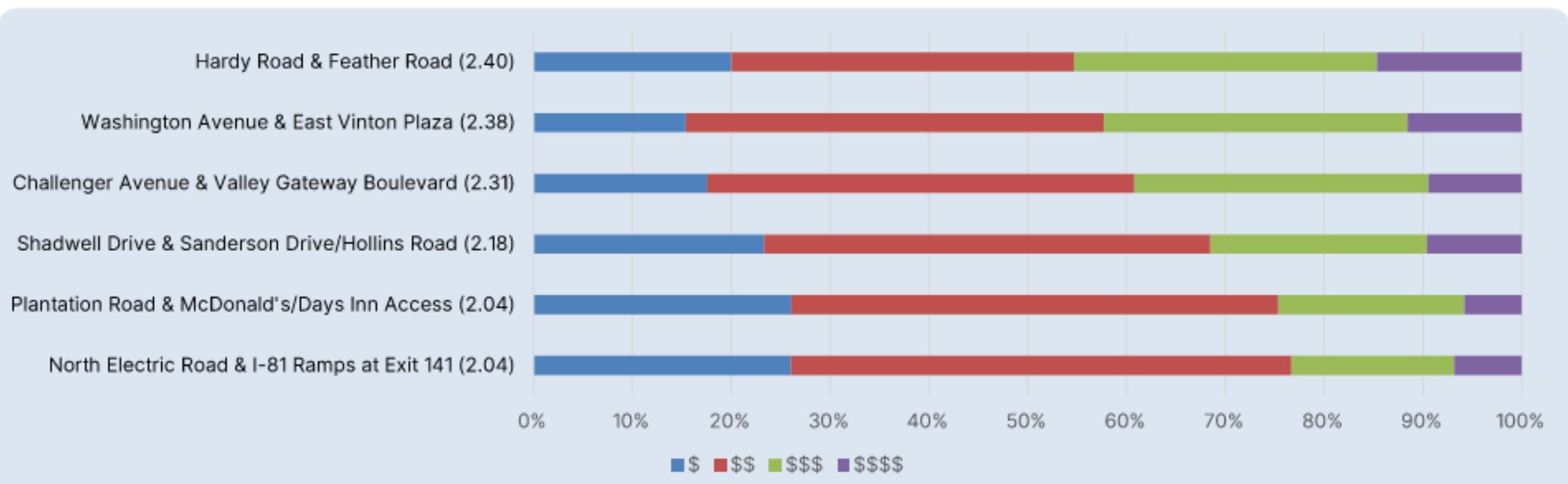
Fall 2024 Meetings

- Thursday, September 5th: Roanoke County (North) at the Hollins Library
- Monday, September 9th: Roanoke County (South) at the South County Library

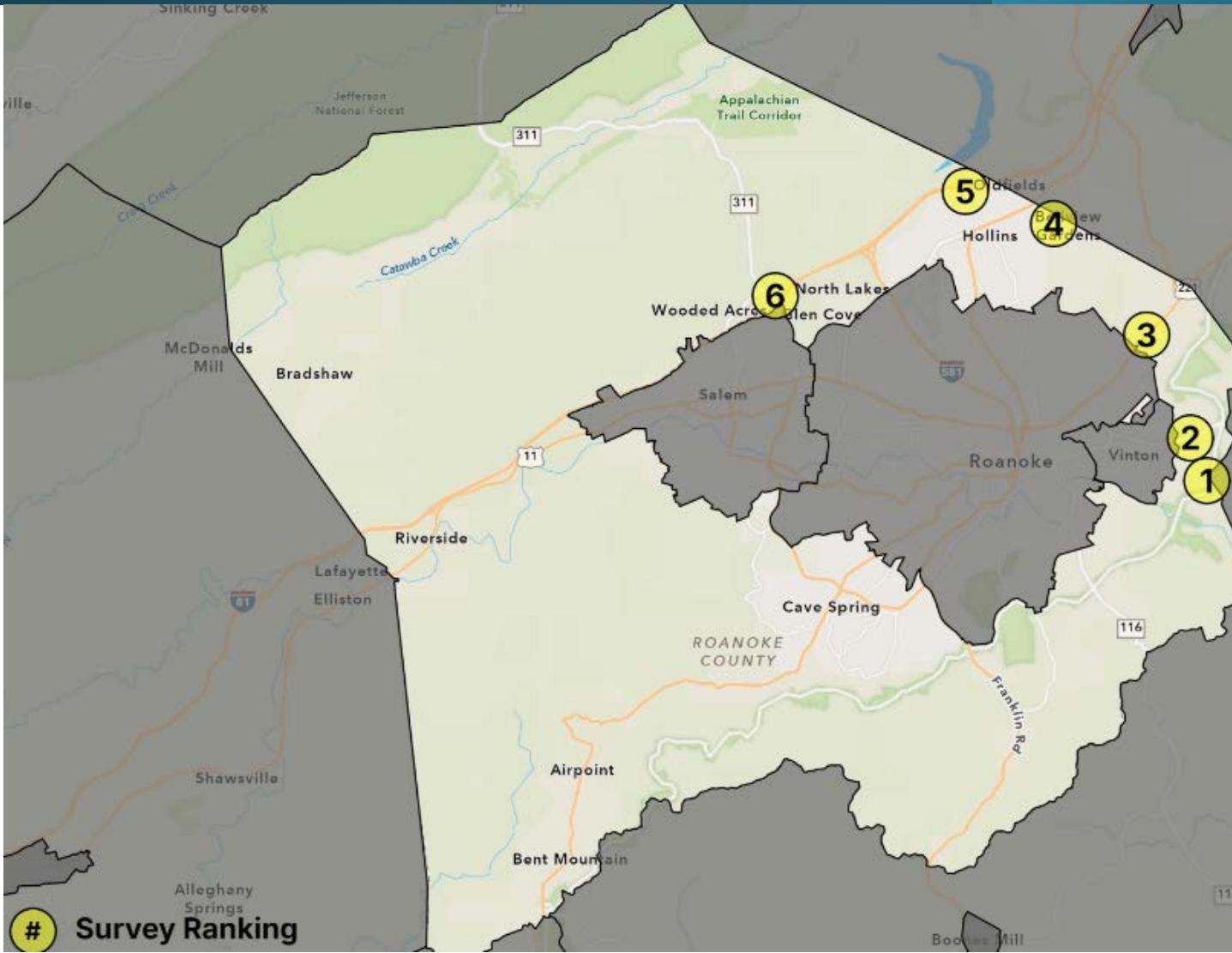
* Includes Spring and Fall survey respondents and meeting attendees, observation app respondents, AGOL Dashboard views, and AGOL StoryMap views

Survey Results - Intersections

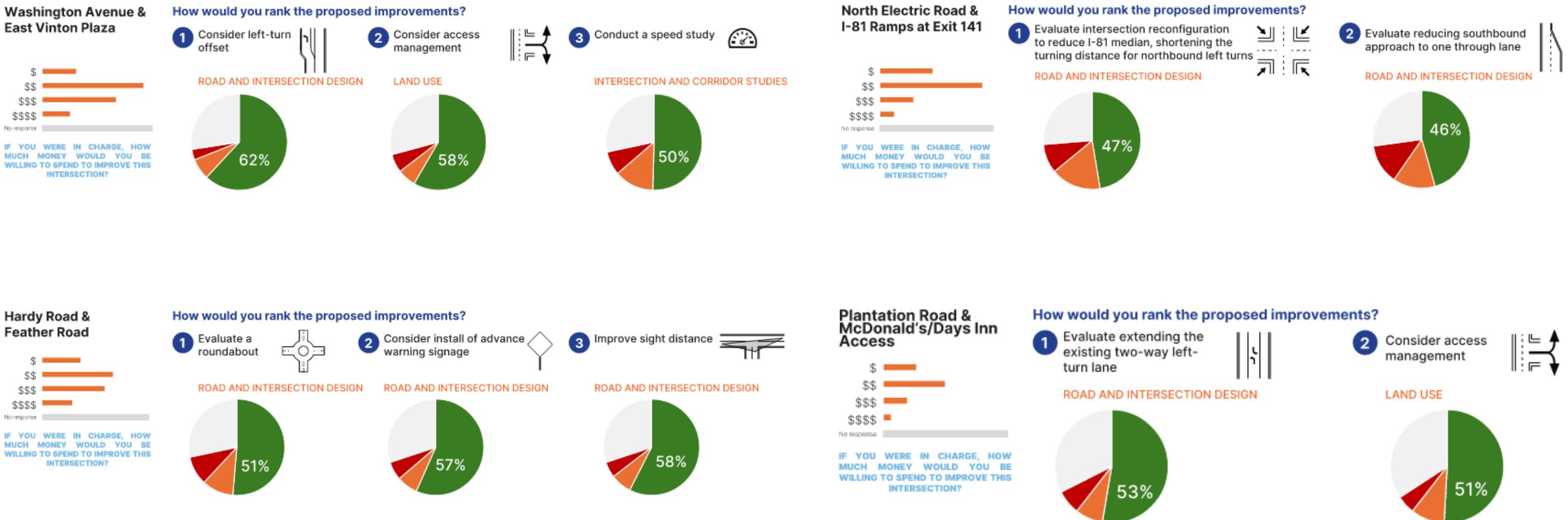
- How much would you spend on each location?



Survey Results – Intersections



Survey Results – Intersections



Survey Results – Intersections

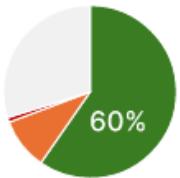
Shadwell Drive & Sanderson Road/ Hollins Road



How would you rank the proposed improvements?

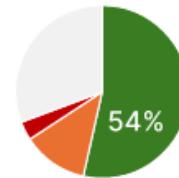
1 Improve sight distance

ROAD AND INTERSECTION DESIGN



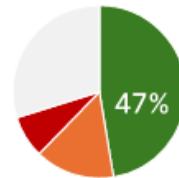
2 Consider installation of guardrail at SW corner of Hollins Road

ROAD AND INTERSECTION DESIGN



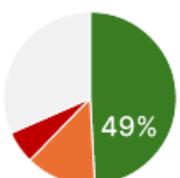
3 Conduct a speed study

INTERSECTION AND CORRIDOR STUDIES



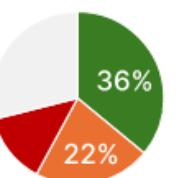
4 Evaluate a left-turn lane on Shadwell Drive onto Sanderson Drive

ROAD AND INTERSECTION DESIGN



5 Evaluate a peanut roundabout

ROAD AND INTERSECTION DESIGN



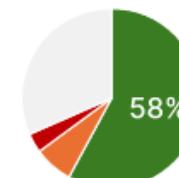
Challenger Avenue & Valley Gateway Boulevard



How would you rank the proposed improvements?

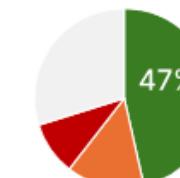
1 Review signal timings; potentially longer all-red times

ROAD AND INTERSECTION DESIGN



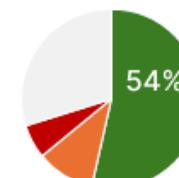
2 Consider lowering speed limit from City boundary to this intersection

ROAD AND INTERSECTION DESIGN



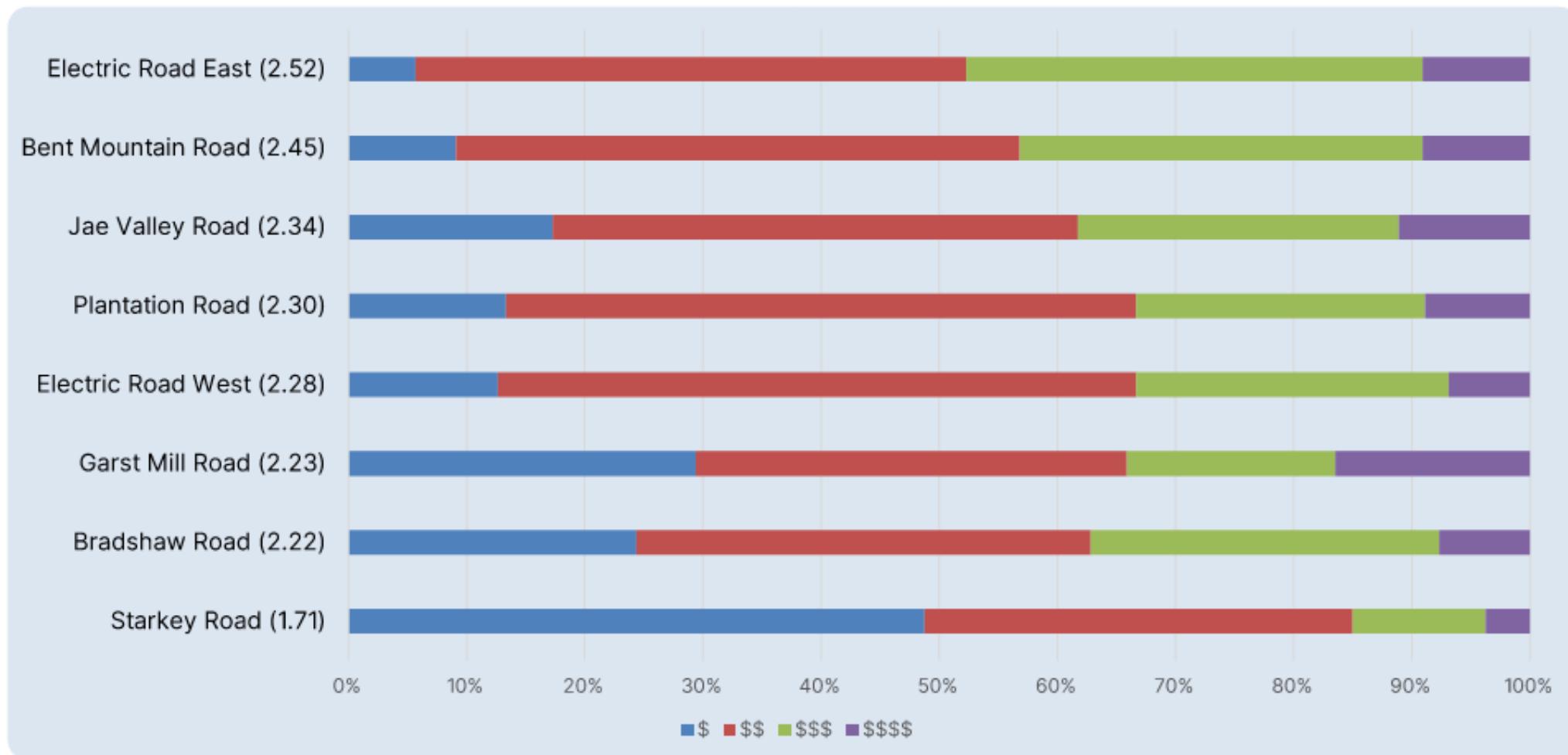
3 Evaluate moving existing stop bar and extend existing concrete median closer to intersection

ROAD AND INTERSECTION DESIGN

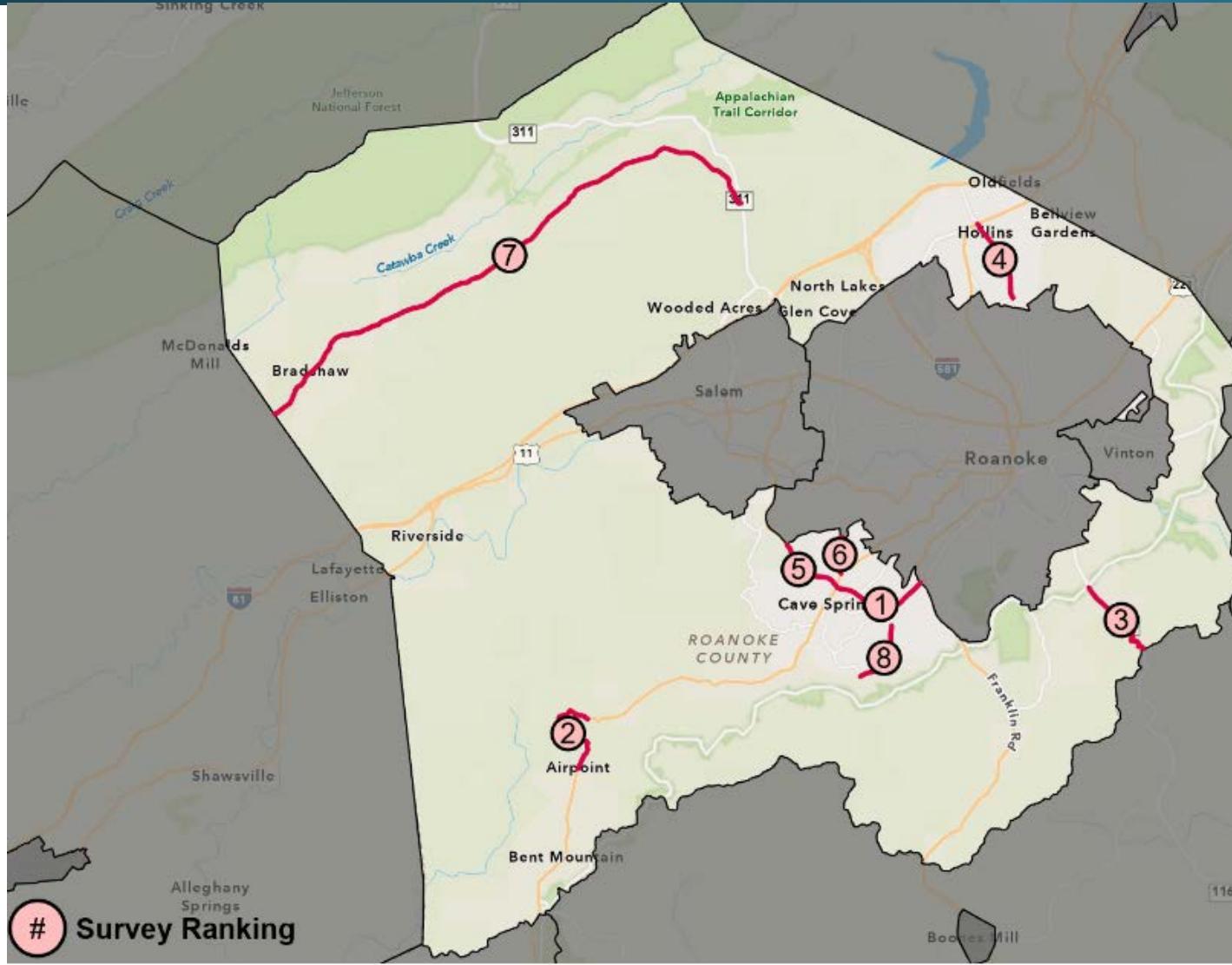


Survey Results – Corridors

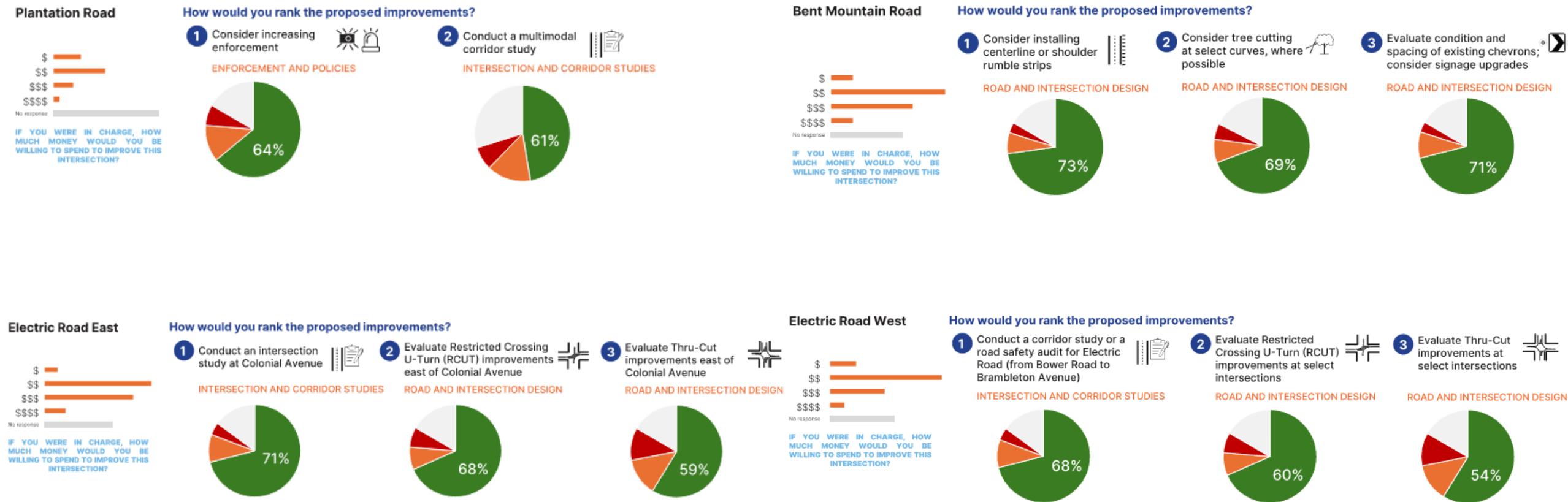
- How much would you spend on each location?



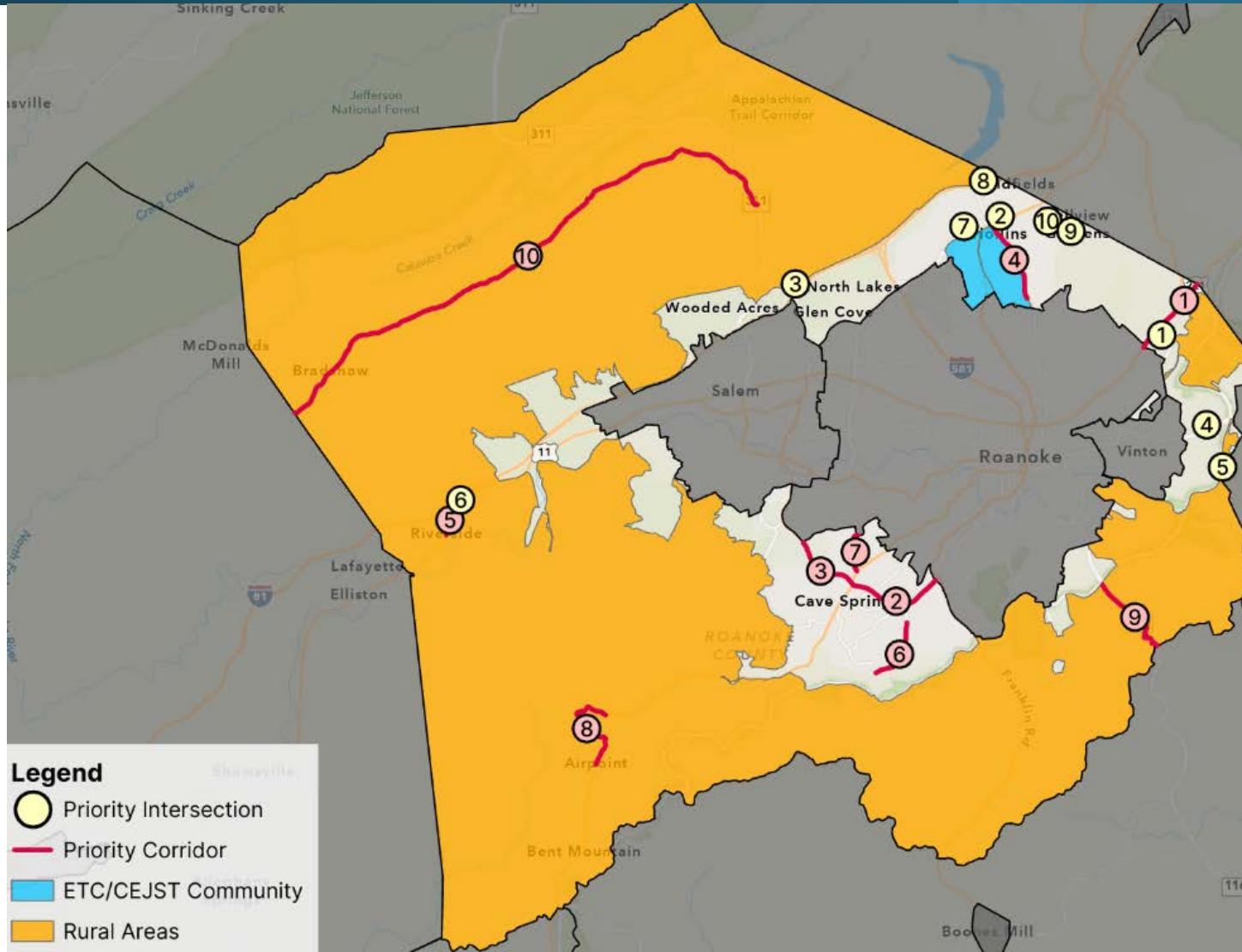
Survey Results – Corridors



Survey Results – Corridors



Equity Analysis



Additional Input Needed

Commitment to Safety

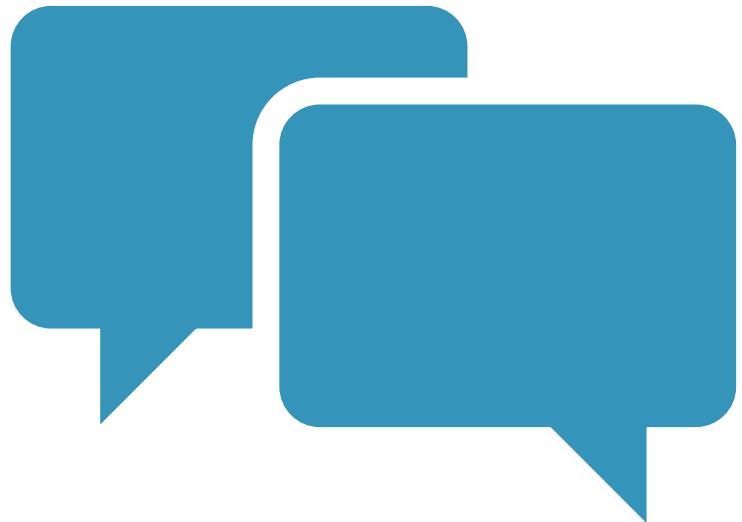
- A commitment to safety is needed through an official public commitment (e.g., resolution, policy, ordinance, etc.) by the governing body related roadway fatalities and serious injuries.
- The commitment must include a goal and timeline for eliminating roadway fatalities and serious injuries achieved through one, or both, of the following:
 - (1) the target date for achieving zero roadway fatalities and serious injuries,
 - OR (2) an ambitious percentage reduction of roadway fatalities and serious injuries by a specific date with an eventual goal of eliminating roadway fatalities and serious injuries.

Commitment to Safety

- The Virginia Strategic Highway Safety Plan (VSHSP) has an interim goal of reducing fatalities and serious injuries by 50% by 2045.
- Henrico County is setting a goal of reduction of fatalities and serious injuries by 50% by 2035.

Selection of Project Funding

- FHWA Funding Cycle for 2025 will open approximately March 2025
- Which of the top corridors or intersections should be selected for further application readiness review and submission to FHWA for funding?
- Requires 20% funding commitment to receive matching 80% from FHWA



Questions and
Discussion