

HAMPTON ROADS REGIONAL SAFETY STUDY 2023 UPDATE

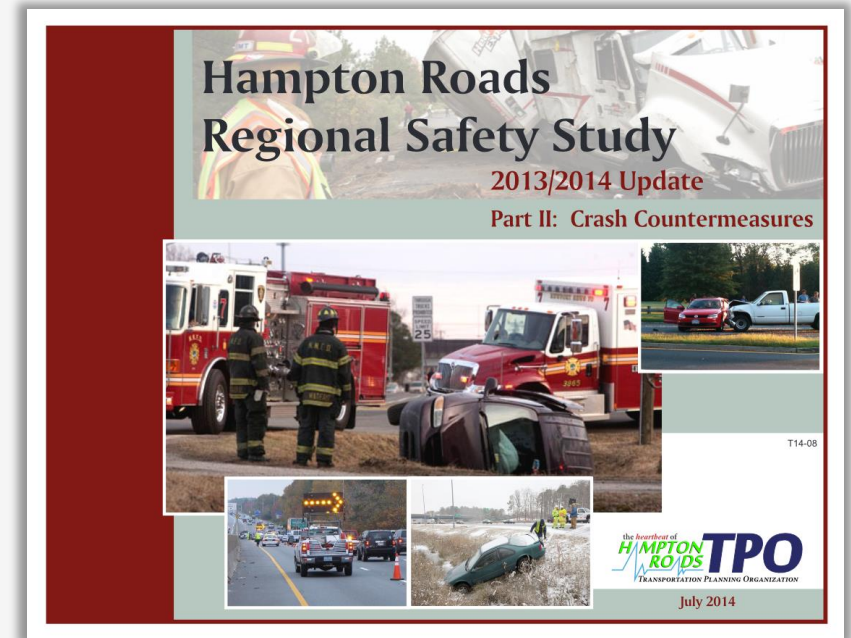
Regional Safety Study Project Team

*Keith Nichols, Principal Transportation Engineer
Sam Belfield, Senior Transportation Engineer
Theresa Brooks, Transportation Engineer III
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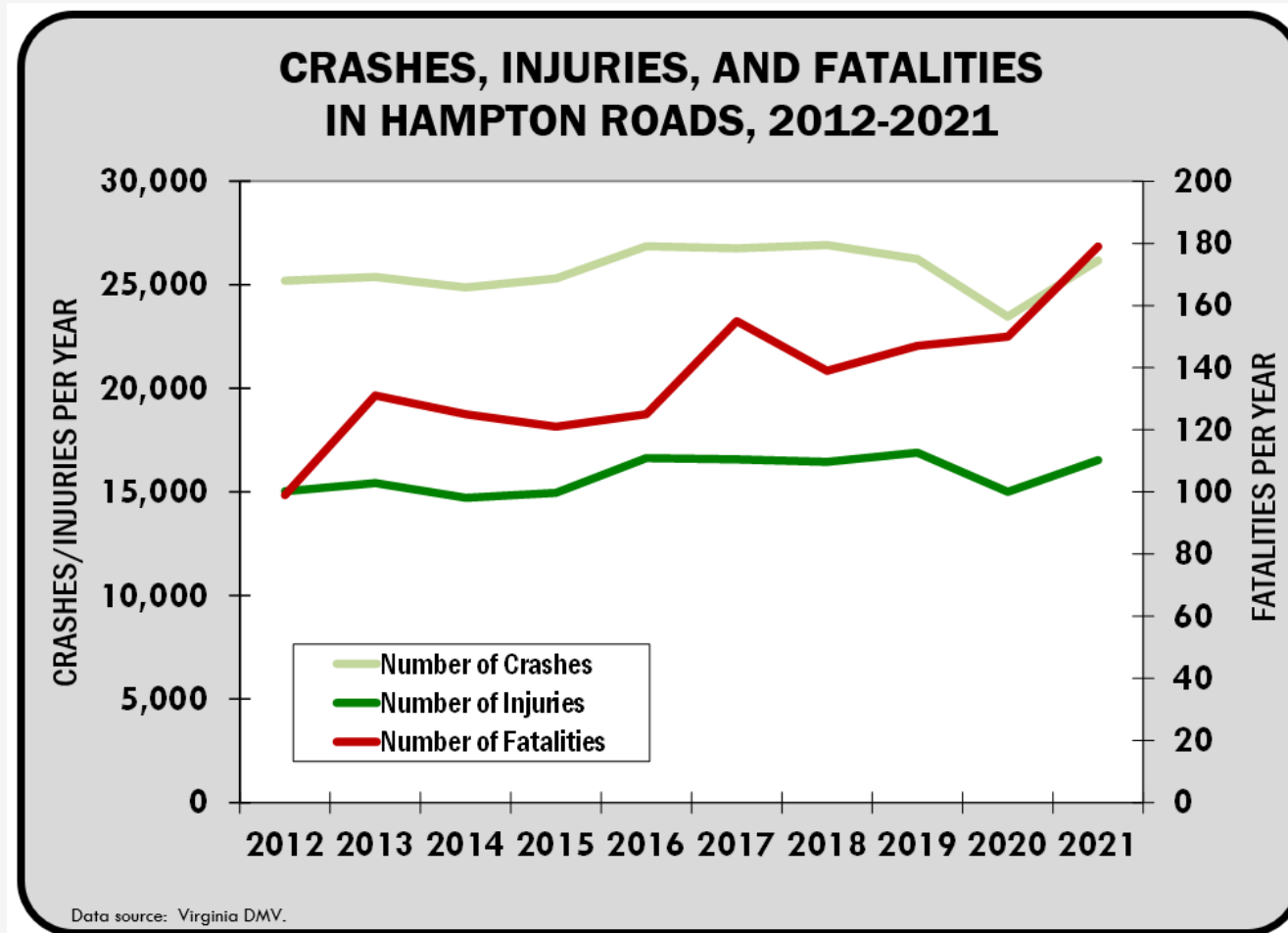
**CAC MEETING
AGENDA ITEM #8
FEBRUARY 9, 2023**

STUDY BACKGROUND

- Roadway safety has significant impacts on both the transportation system and the quality of life in Hampton Roads.
- HRTPO incorporates roadway safety throughout the transportation planning process.
- HRTPO has prepared the Hampton Roads Regional Safety Study in 2004 and [2014](#).
- HRTPO staff have started an update to the Regional Safety Study, with the goal of completing the update by Summer 2023.



SAFETY TRENDS



SS4A PROGRAM

- **The new Safe Streets and Roads for All (SS4A) Discretionary Grant Program was created by the Infrastructure Investment and Jobs Act (IIJA/BIL).**
- **A total of \$5 billion in funding for safety plans and projects will be available over five federal fiscal years.**
- **Eligible applicants include MPOs, counties, cities, towns, transit agencies, and other subdivisions of a state.**
- **Applicants must provide a 20% local match on all safety implementation projects.**
- **More information available at <http://www.transportation.gov/grants/SS4A>**



SS4A PROGRAM

- In order for safety implementation projects and strategies to be eligible for SS4A funding, they must be identified in a Safety Action Plan.
- Safety Action Plans should include the following components to be eligible for SS4A implementation grants:



WHAT WILL THE STUDY COVER?

- **Introduction**
- **Study Vision and Goals**
- **Regional Safety Trends**
 - **Regional trends in crashes, injuries, and fatalities**
 - **Jurisdictional trends**
 - **Comparison to other metropolitan areas**
- **Crash Causes and Characteristics**
 - **Crash types**
 - **Driver actions**
 - **Alcohol/Distracted/Speeding/Unbelted crashes**

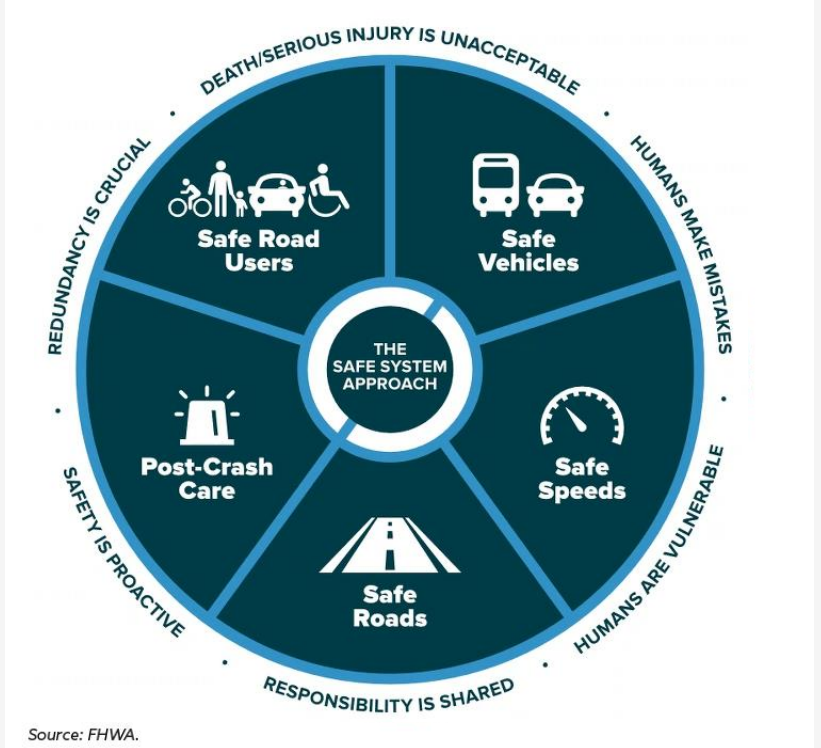
WHAT WILL THE STUDY COVER?

- **Crash Locations**
 - **Locations of crashes – Freeways and intersections**
 - **Potential for Safety Improvement – Segments and intersections**
 - **Incorporate other measures**
 - **Ranking locations to determine high crash areas**
 - **For region and for each locality**

WHAT WILL THE STUDY COVER?

- **Efforts to Improve Roadway Safety**
 - **Safe System Approach**
 - **Vision Zero**
 - **US Safety Plans - National Roadway Safety Strategy**
 - **VA Safety Plans**
 - **Safety Laws**
 - **Road Safety Assessments**

FIGURE 6. VIRGINIA'S SAFE SYSTEM APPROACH



WHAT WILL THE STUDY COVER?

- **Efforts to Improve Roadway Safety**
 - **Funding Sources**
 - **Highway Safety Improvement Program (HSIP)**
 - **DMV Safety Grants**
 - **SS4A Federal Grants**
 - **Others**
 - **Recent and upcoming safety projects**
 - **Benefits of selected completed safety projects**



WHAT WILL THE STUDY COVER?

- **General Crash Countermeasures**
 - **Countermeasure Toolbox**
 - **Crash Modification Factors (CMFs)**
- **High Crash Locations**
 - **Top locations for the region and each locality**
 - **Crash analysis**
 - **Countermeasure recommendations**

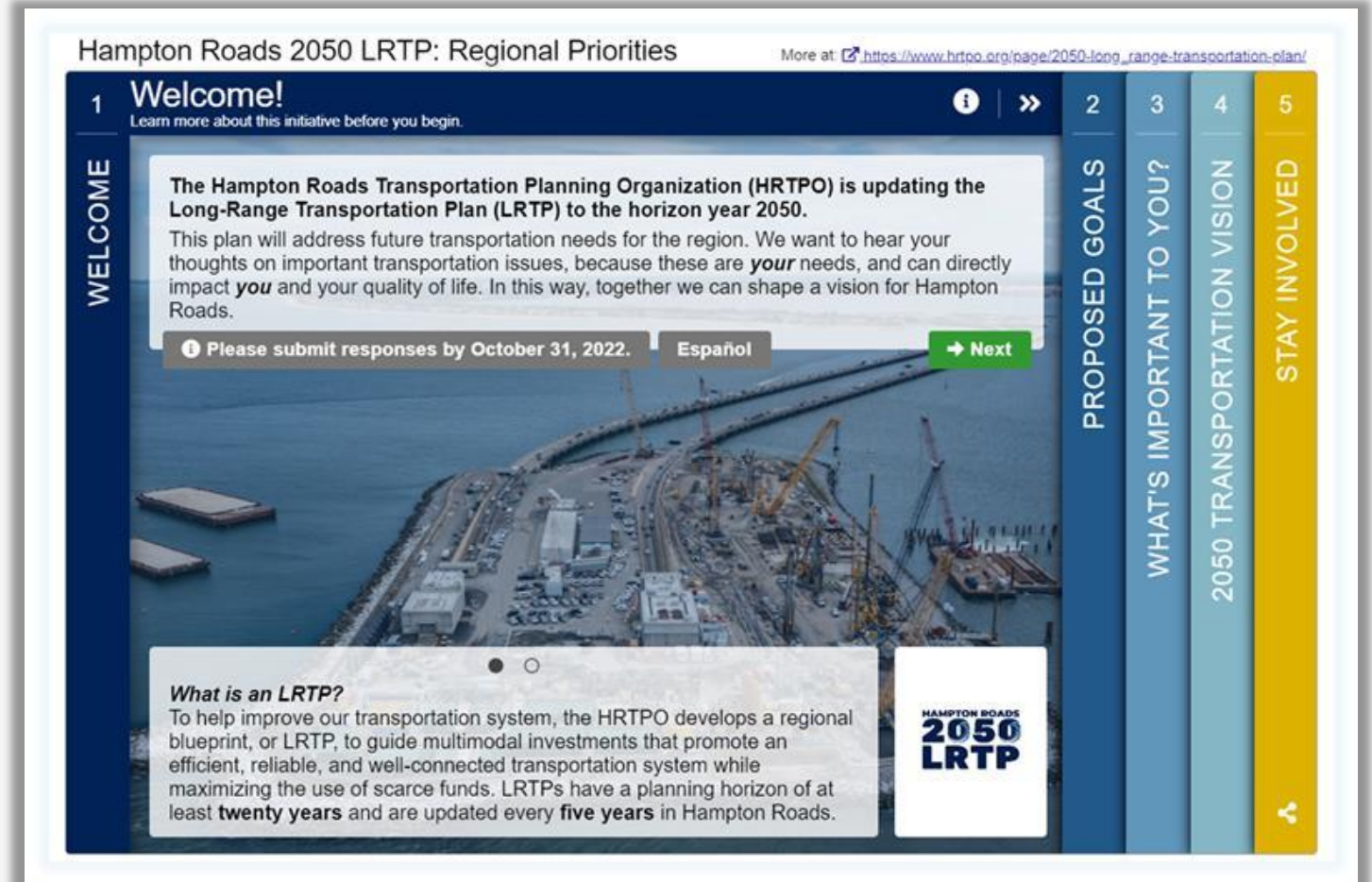
PROBABLE CAUSE	GENERAL COUNTERMEASURES
Restricted sight distance	<ul style="list-style-type: none">▶ Remove sight obstructions▶ Restrict parking near corners▶ Install stop signs▶ Install warning signs▶ Install signal▶ Install yield signs▶ Channelize intersections▶ Install advance markings to supplement signs▶ Install guide markings
Large total intersection volume	<ul style="list-style-type: none">▶ Install signal▶ Reroute through traffic
Excessive speed on approaches	<ul style="list-style-type: none">▶ Install rumble strips
Inadequate roadway lighting	<ul style="list-style-type: none">▶ Improve roadway lighting
Inadequate advance warning signs	<ul style="list-style-type: none">▶ Install advance intersection warning signs
Inadequate traffic control devices	<ul style="list-style-type: none">▶ Upgrade traffic control devices▶ Increase enforcement

FIGURE 8C – RIGHT-ANGLE COLLISIONS AT UNSIGNALIZED INTERSECTIONS



PUBLIC ENGAGEMENT

- Will seek public input once the initial location analysis is complete.
- Thoughts?
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HRTPO LRTP Example

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