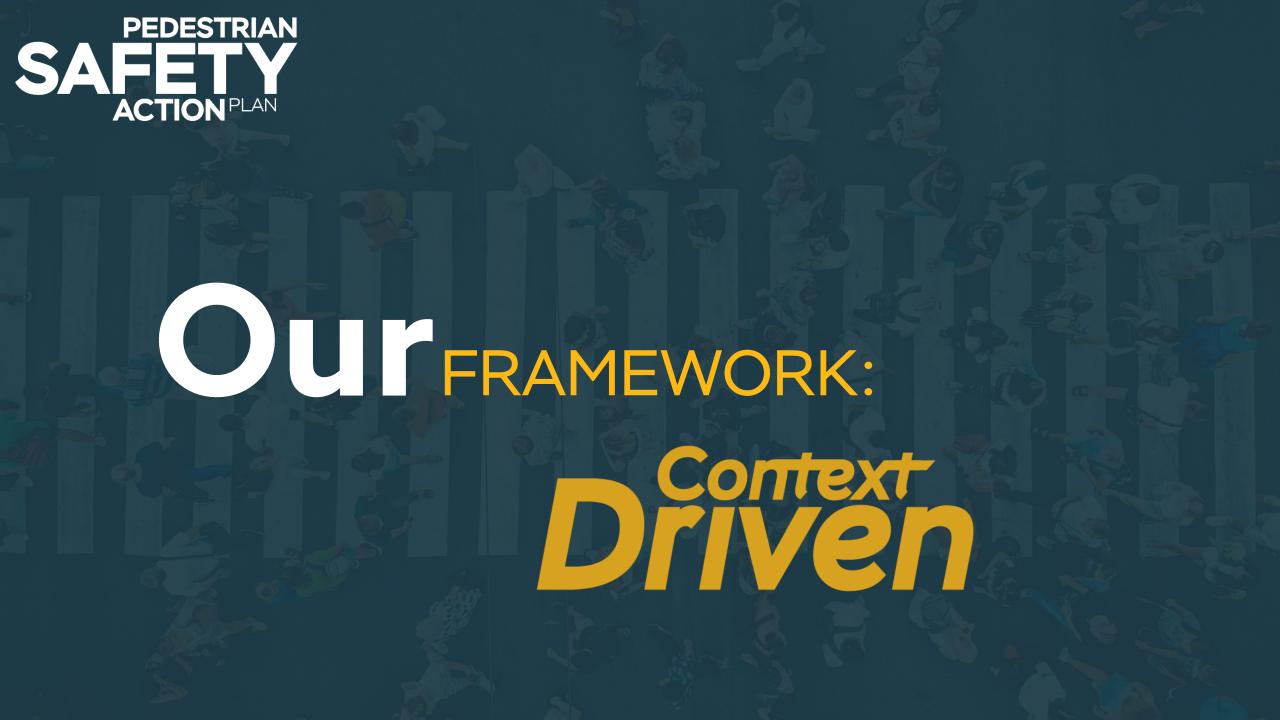
#### Maryland's Pedestrian Safety Action Plan



MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION



#### Our framework





**DEFINE** the context ••••• Context Driven Guide

**IDENTIFY** our needs, **PLAN** our actions .....



**SHOW** where these strategies have worked ••••• Case Studies

**INVEST** in people ••••• Training

#### Guide

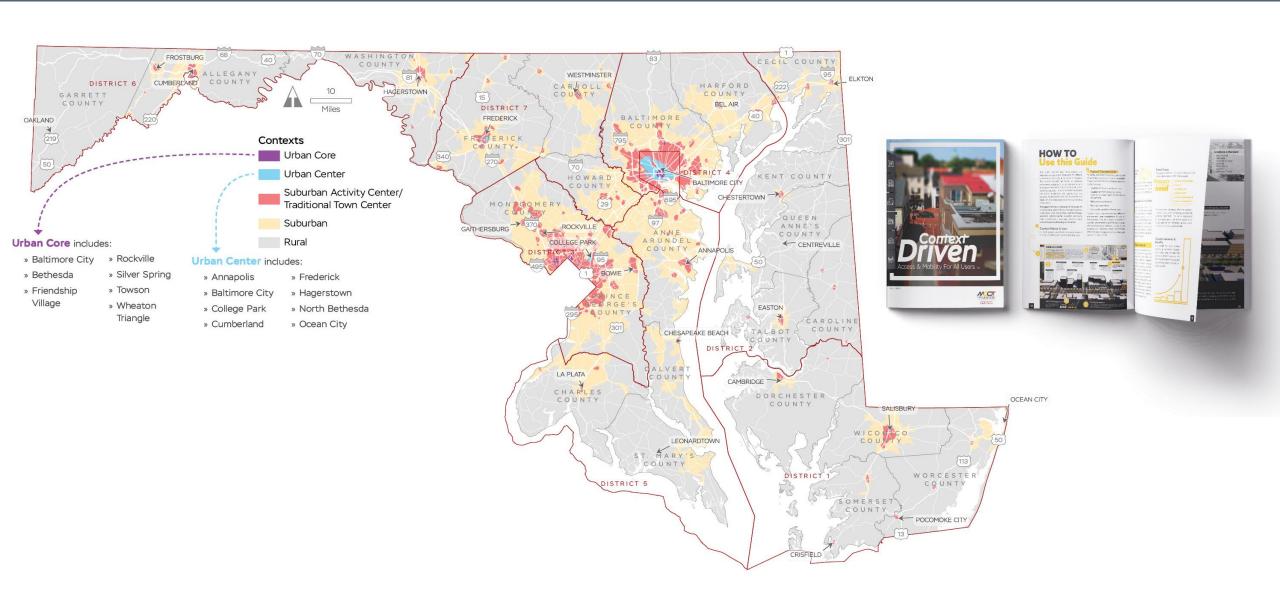




SHA's contexts recognize a more nuanced gradient of land uses that can better inform transportation projects in Maryland.

#### Guide





#### Toolkit



- Context Zones

  Which Context Zones the countermeasure applies to (darker shade = applicable).
- Definition and Description
  An in-depth explanation of the countermeasure.
- Considerations

  Special considerations to pay attention to when implementing.
- Examples
  Photos of the countermeasure as applied.
- Complimentary Countermeasures
  Other countermeasures that this
  countermeasure is often paired with to
  enhance safety outcomes.

Applications

Where and how a countermeasure is typically applied to a street or road design.

References
Lists state/national guidance and standards that were consulted in formulating the countermeasure.





## SHA'S PEDESTRIAN SAFETY ACTION PLAN

## What is a pedestrian SAFETY ACTION PLAN



#### **EVERYONE IS A PEDESTRIAN!**

Even if you drive for most of your trips, everyone is a pedestrian at some point, even if that is just walking from your parked car to your destination.

SHA decided to develop the PSAP to answer the question:

"Where and how can we address vulnerable user needs across the SHA transportation system?"



### What is a PEDESTRIAN SAFETY ACTION PLAN



The PSAP also advances Maryland Strategic Highway Safety Plan goals:

<u>The 4 E's</u>: Enforcement, **Engineering**, Education, Emergency Medical Services.

Consider land use context in the way we design roads.

Differentiate between mobility and access.

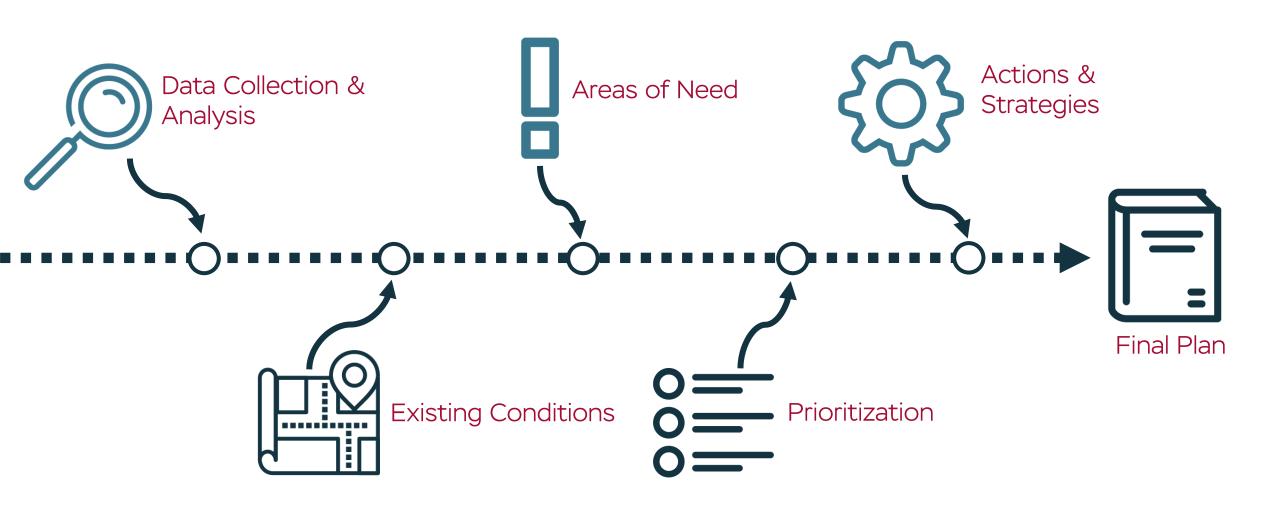
Prioritize roadway design projects that will enhance safety for all Marylanders (pedestrians, bicyclists, rollers, drivers, transit users).



#### What ARE THE STEPS

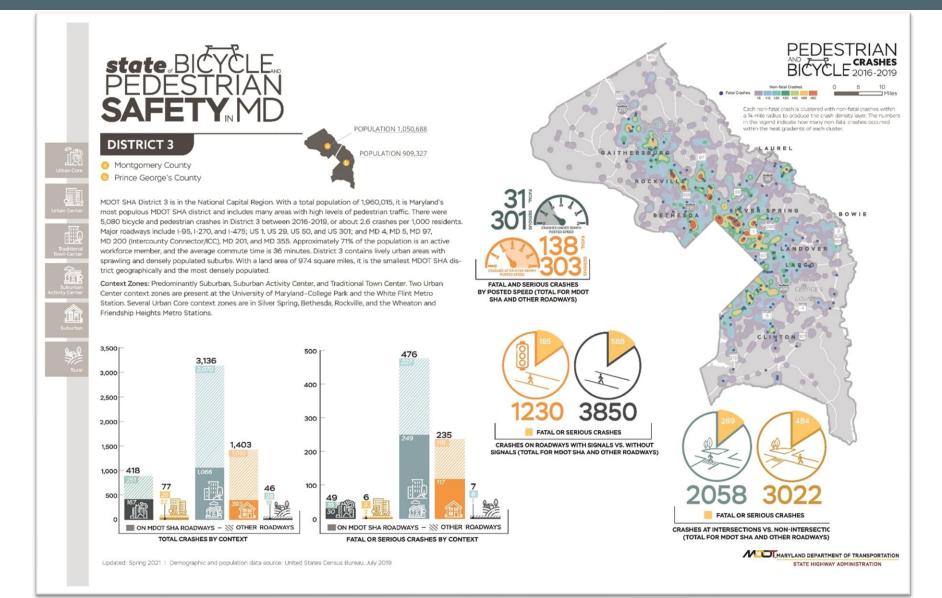






#### Existing conditions





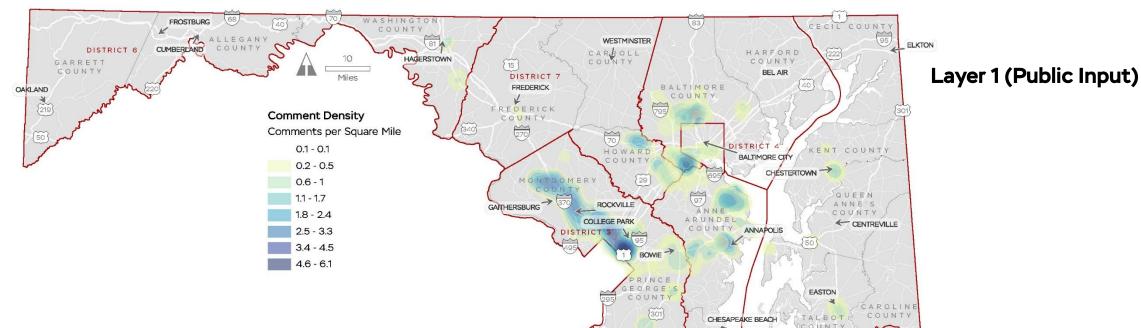


**Areas of Need** are broad geographic areas that have the highest need for non-motorized safety improvements based on:

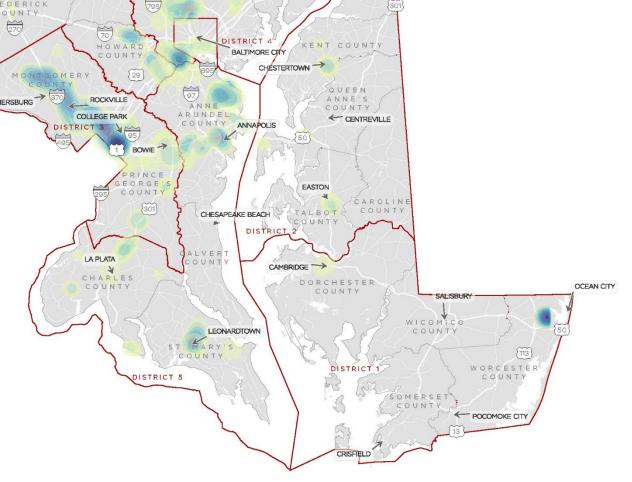
- Public input
- Equity
- Non-fatal pedestrian and bicycle crash density
- Fatal and serious pedestrian and bicycle crash density
- Short Trip Opportunity Areas

Within the identified areas of need, specific roadways were identified as candidates for safety improvements through the **Prioritization** process.

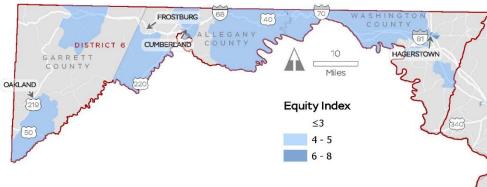




**Public input** was measured as the density of comments placed on a comment map.

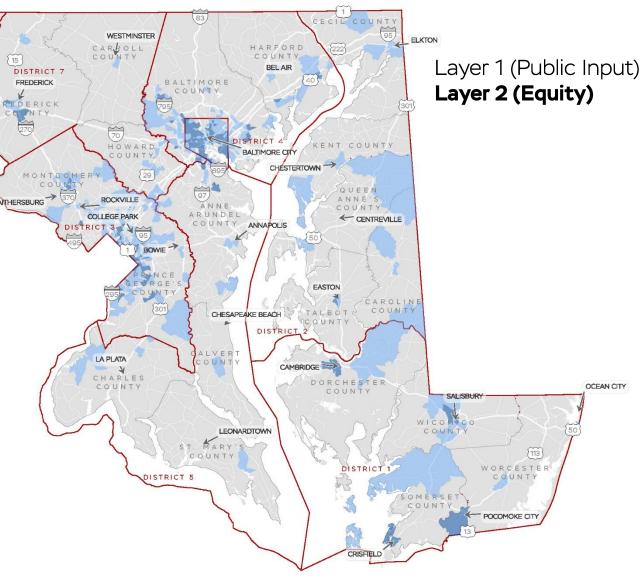




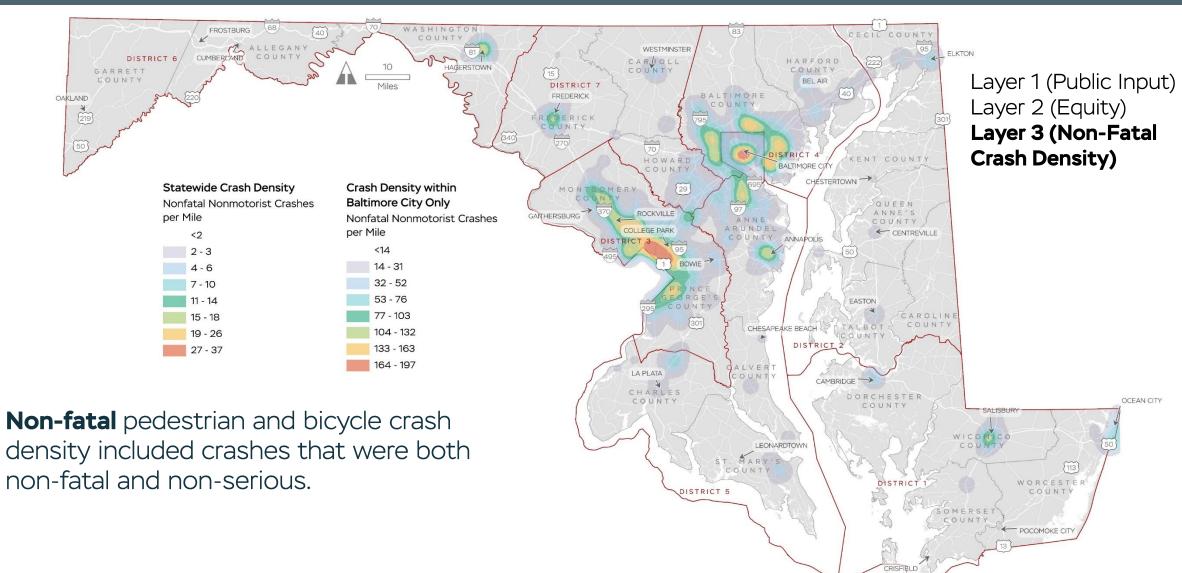


The **Equity Index** was calculated by adding points within Census tracts where the following demographic factors were above the statewide average:

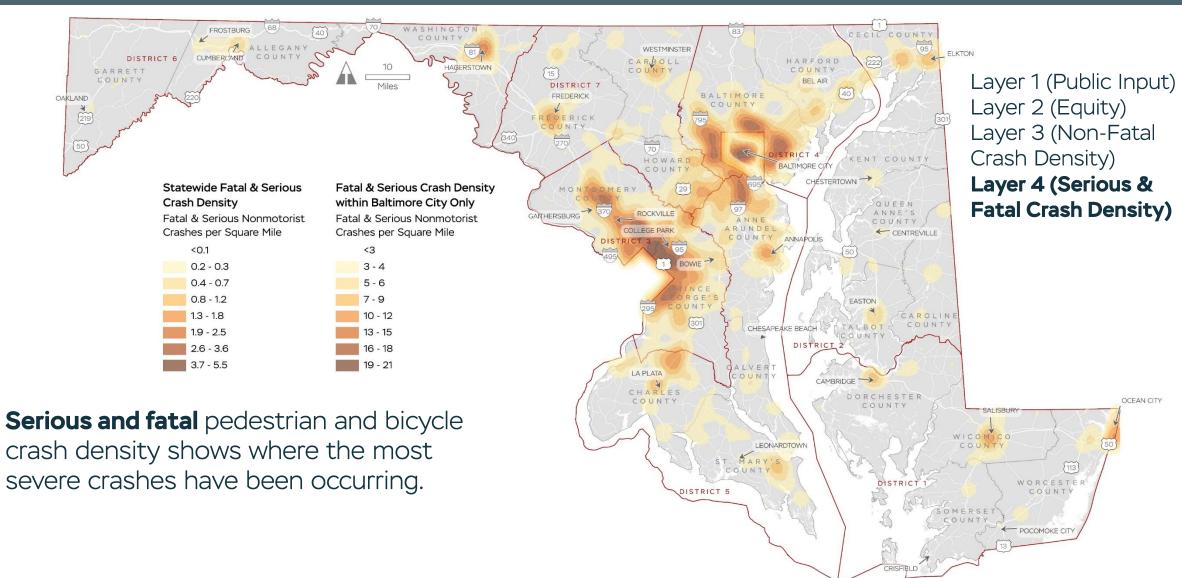
- Non-English speakers
- Non-white population
- Population with a disability
- Low-income & poverty status
- Age (<18 and >65)
- O car households











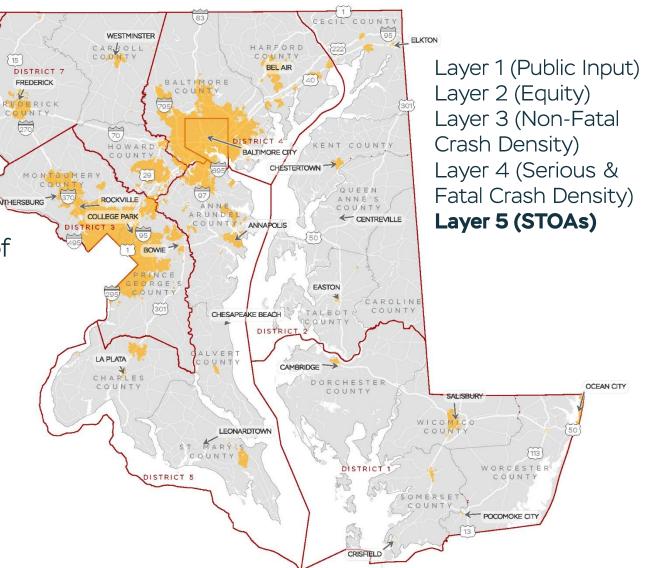




Short Trip Opportunity Areas (STOAs) are places where there are opportunities for high numbers of short car trips to be replaced by walking and biking trips. They were identified based on:

Employment densities (25% weight)

- Population densities (25% weight)
- School coverage (20% weight)
- Transit coverage (20% weight)
- O car households (10% weight)

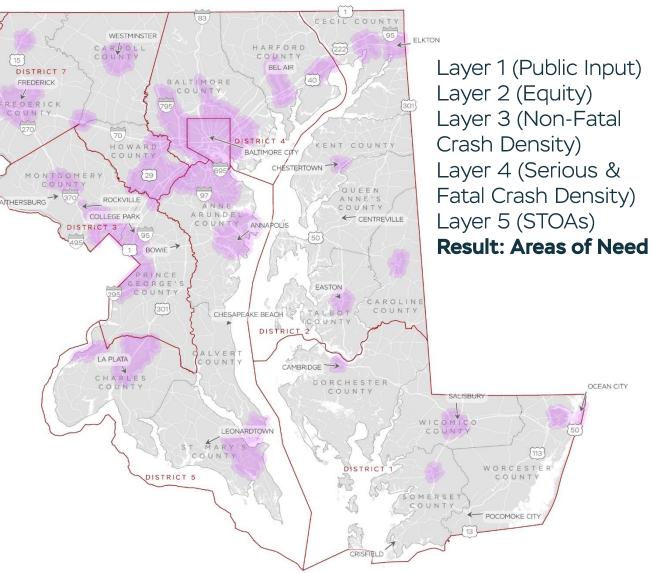






Areas of Need were selected by overlaying these inputs and selecting Census blocks where they converged most heavily.

SHA roadways within these Areas of Need were then analyzed in more detail in the Prioritization process, which identified priority corridors throughout the state.



#### **Priority** corridors



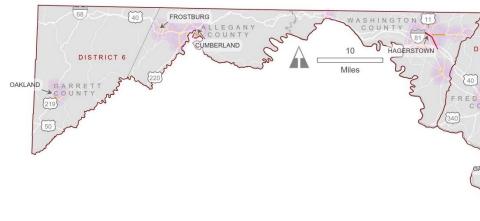
**Priority corridors** were selected within the Areas of Need through the **prioritization analysis.** This involved weighted scoring of each SHA roadway within each Area of Need using the following factors:

- Fatal non-motorized crashes per mile (above average)
- Serious non-motorized crashes per mile (above average)
- Other non-motorized crashes per mile (above average)
- Equity Index score
- Short Trip Opportunity Areas
- Highway Safety Improvement Program (HSIP) data
- ½ mile rail transit walksheds
- Bus stop density (above average)
- SHA Bike Spine
- Schools

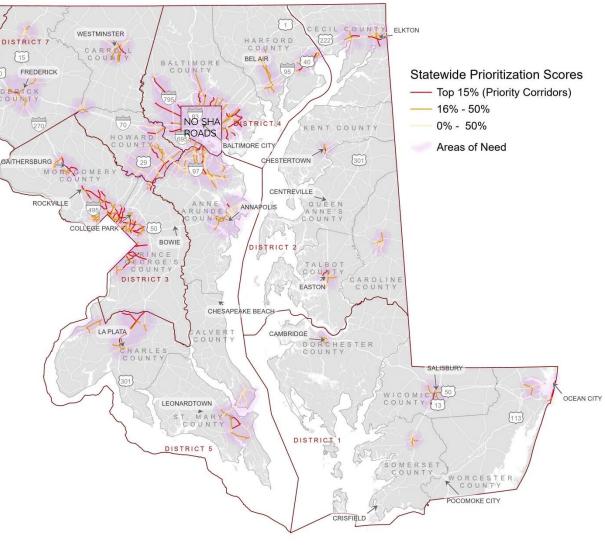


#### Priority corridors





Priority corridors are the top 15% of the scores within the previously identified Areas of Need that resulted from the Prioritization analysis.









with local agencies and jurisdictions



in communities

#### **MEASURE**

outcomes to evaluate effectiveness of countermeasures

#### RESEARCH and MONITOR A

new and evolving tools, standards, and technologies

#### **UPDATE** and **REVIEW**

data methodologies and tools



MDOT SHA and other staff



to stay at the forefront of industry best practices and technology





projects and policies for pedestrian safety



the public

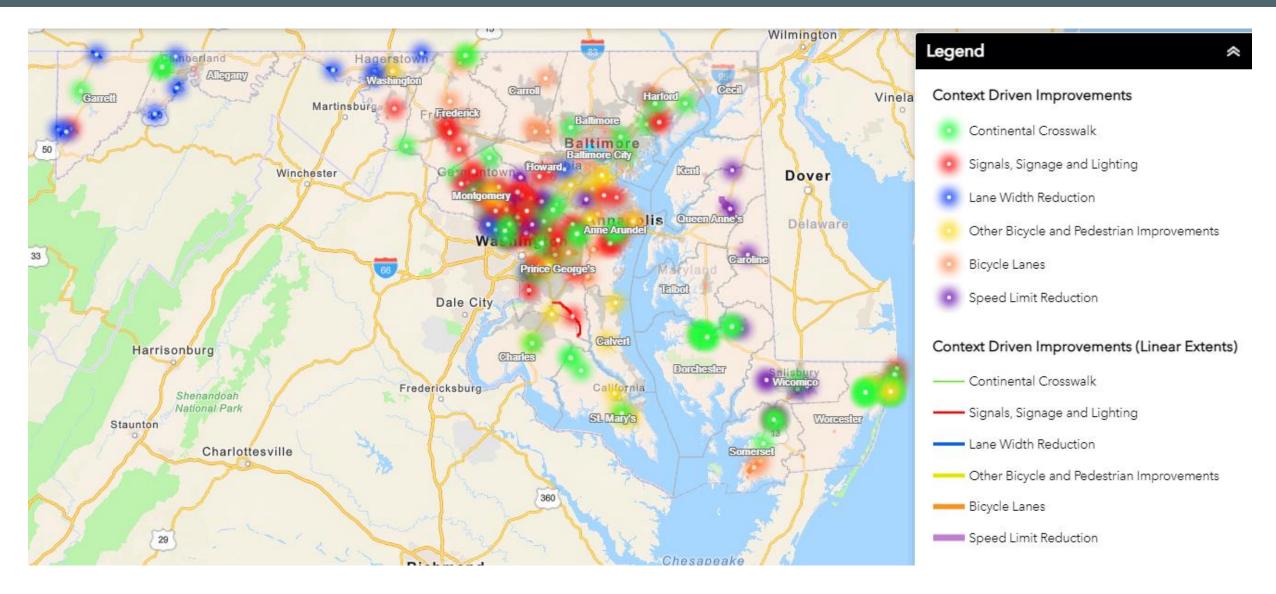


Over 350 context-driven bicycle and pedestrian safety projects throughout the State have been completed during the PSAP development process, beginning in 2019.

The PSAP will continue to help SHA district offices identify where the need for pedestrian and bicycle/rolling safety is greatest and provide them with the guidance to develop projects.









• **SHA** has programmed nearly **\$100 million** for pedestrian safety improvements to deliver PSAP projects.





# Thank you!

**Molly Porter** 

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Engineering

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