# BRTB Safety Sub-Committee Meeting

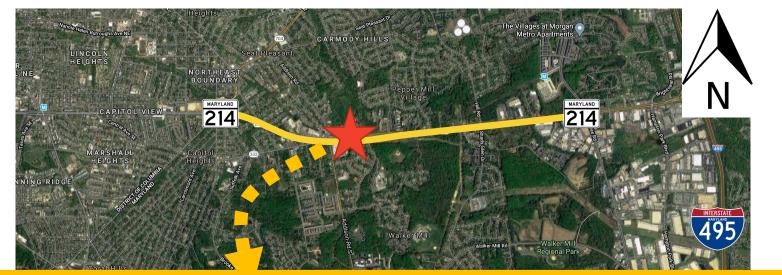
#### Carole Delion, P.E.

Maryland DOT State Highway Administration
Office of Transportation Mobility & Operations
CATS Division

#### **Topics**

- 1. Pedestrian I2V Deployment
- 2. Vulnerable Roadway User Safety Exposure Dashboard





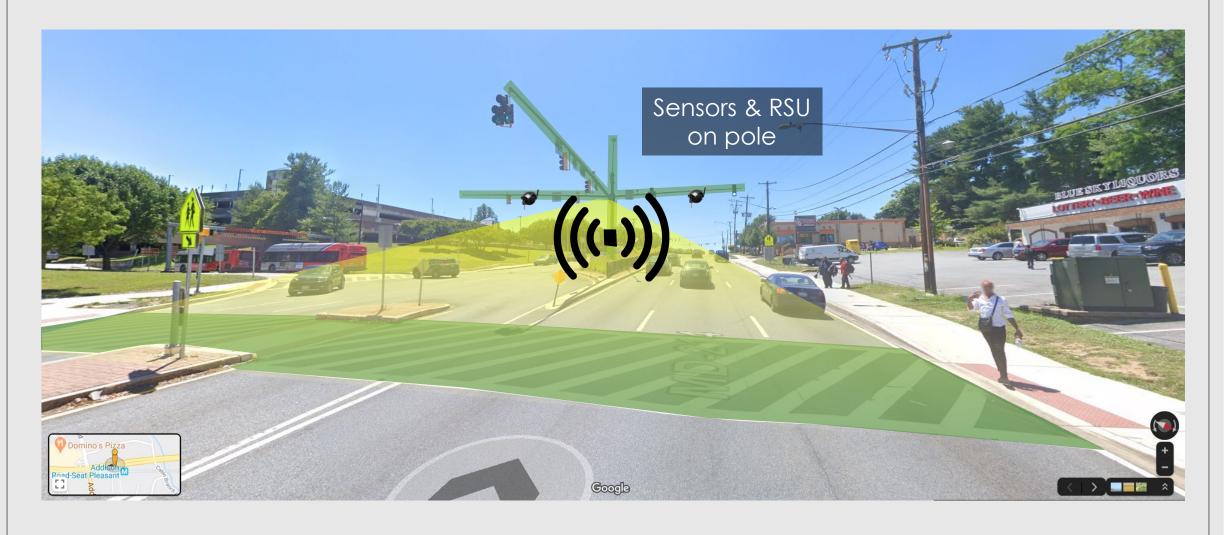


## Project Location

- Prince George's County
- MD 214 at Addison Road – Seat Pleasant Station
- One intersection only



# What will it look like?



# Project Goals

#### **Federal**

Project is a 2019 State Transportation Innovation Council (STIC) grant award.

#### **Internally**

- Deploy a dual mode DSRC/C-V2X radio for crosswalk safety.
- Report lessons learned from the deployment.
- Identify barriers to the project delivery as it relates to connected vehicle technologies.

#### **Externally**

- Incentivize private industry to pursue connected vehicle technologies.
- Demonstrate MDOT is a player in the connected vehicle arena.



## Points of Clarification

This Project Does **NOT**...

'Track' or record people in the crosswalk.

#### Act in place of the existing signal pedestrian crossing operations.

- Pedestrians crossing will continue to cross or request to cross normally.
- The signal will NOT change based on this connected vehicle application.

#### Force cars to stop.

- It is still the responsibility of a driver receiving these notifications to act.
- Maryland law still applies, and this project does not change those laws!



### Additional Information

#### **Timeline**

- Waiting on FCC DSRC license approval CV2X license already approved!
- Winter/early Spring 2021: deployment.
- Spring/Summer: testing.

#### **Technology**

- Siemens dual RSU: DSRC and C-V2X.
- Bosch cameras for detection.
- ISS security credentialing.



A Data-Driven Safety
Dashboard Assessing Maryland
Statewide Density Exposure of
Pedestrians, Bicycles, and EScooters



In Partnership With









## **Project Deliverable**

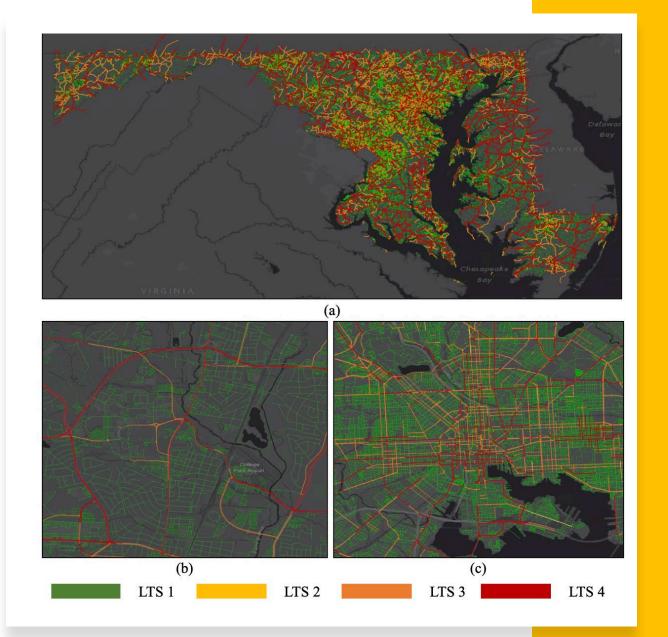
 An integrated pedestrian/bicycle/e-scooter safety and exposure data for Maryland

• The **safety data dashboard** to select, view, and rank the exposure, number of crashes, and risks for user-selected time period, at intersection, and roadway segment level.



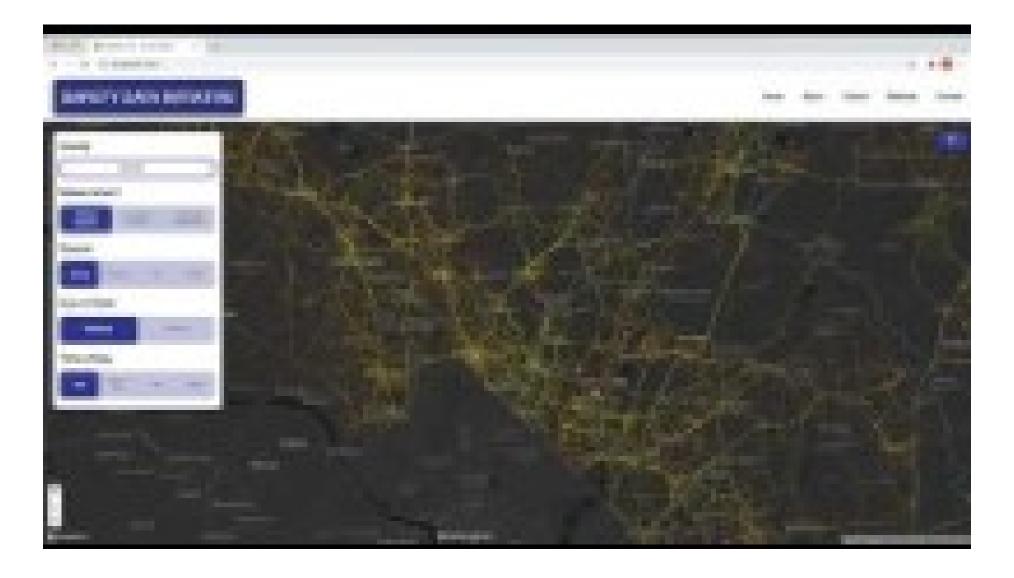
## **Latest Updates**

- Continuing fine-tuning multiple steps of vehicle/pedestrian/bicycle trajectory reconstruction methodology
- Measuring the Level of Traffic Stress (LTS)
- Measuring the pedestrian/bicycle safety risks using a statistical model





## **Interactive Visualization Dashboard**





## **Project Timeline**

Refining hiccups/data processing - Winter 2020-2021

Internal US DOT & stakeholder reviews - Spring 2021

Final product - Summer 2021 (required)

