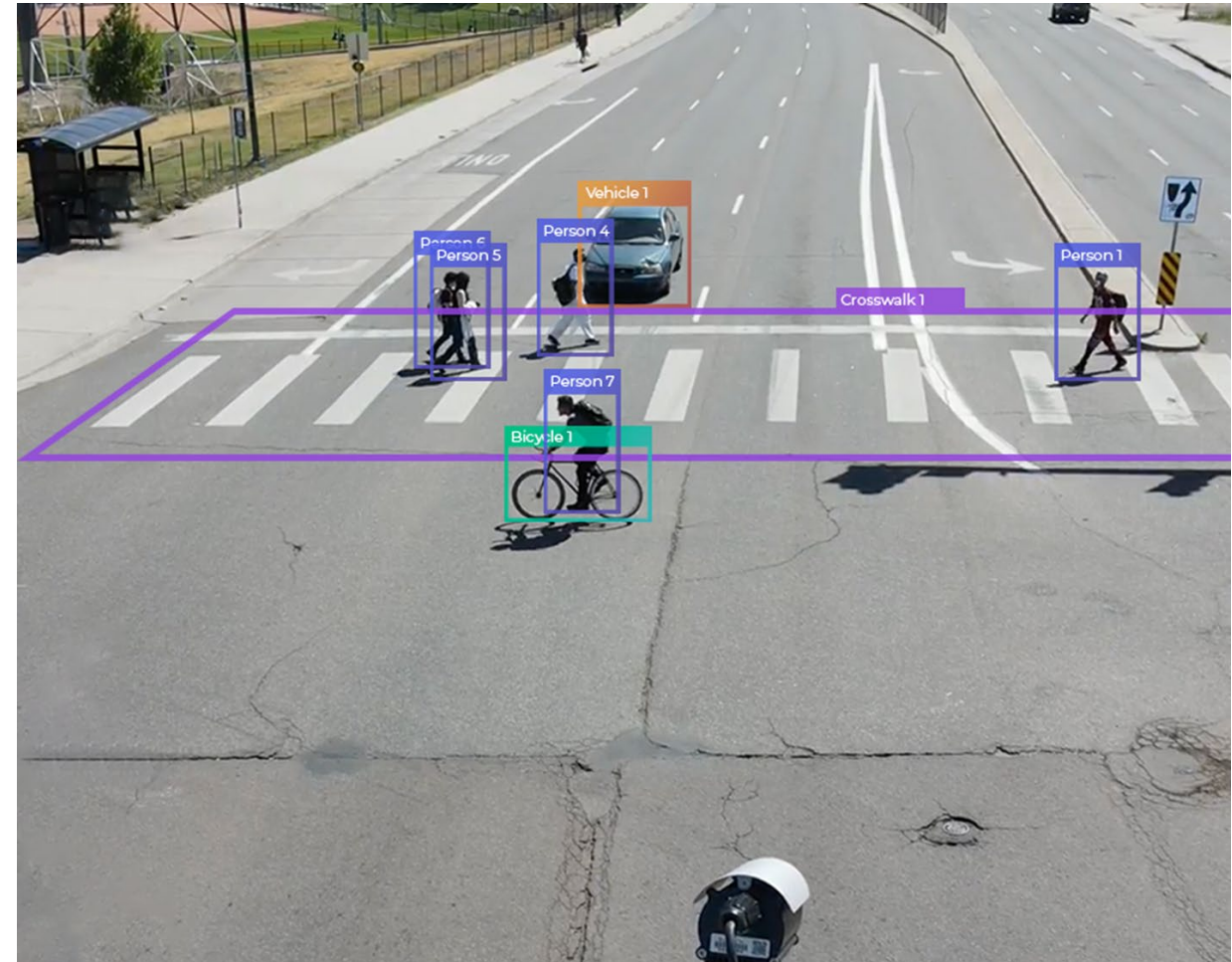# Prince George's County Vulnerable Road User Detection System

- Detecting Vulnerable Road Users (VRU) at signalized intersections and mid-block crossings
- Mitigating pedestrian conflict thru actionable responses

Vulnerable Road User (VRU) Detection System

› The system will use advanced technologies such as edge computing, computer vision, and machine learning algorithms to detect and track pedestrians in real time.

› By analyzing data on pedestrian behavior, the system aims to reduce the risk of accidents and provide targeted interventions to improve safety.

› The project will involve collaboration with local stakeholders to ensure that the system meets the community's needs.

USE-CASE FOR VRU DETECTION SYSTEM

- Connect to traffic signals to improve timing & detection of pedestrians in and outside of crosswalks
    - Possible Ped-time extension

- Optimize signal timing

- Sharing traffic and pedestrian data with connected vehicles

- Notify the transit provider of passengers with disabilities waiting for public transit