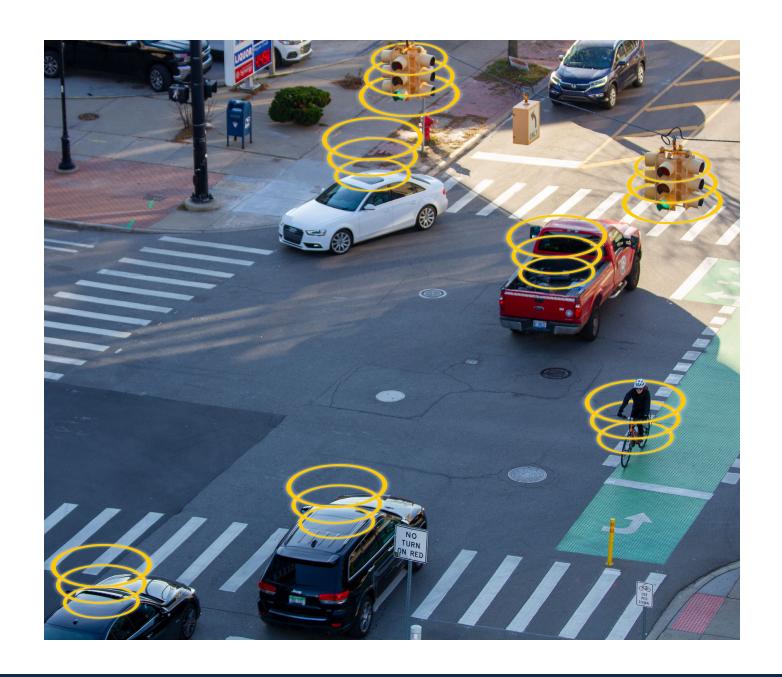
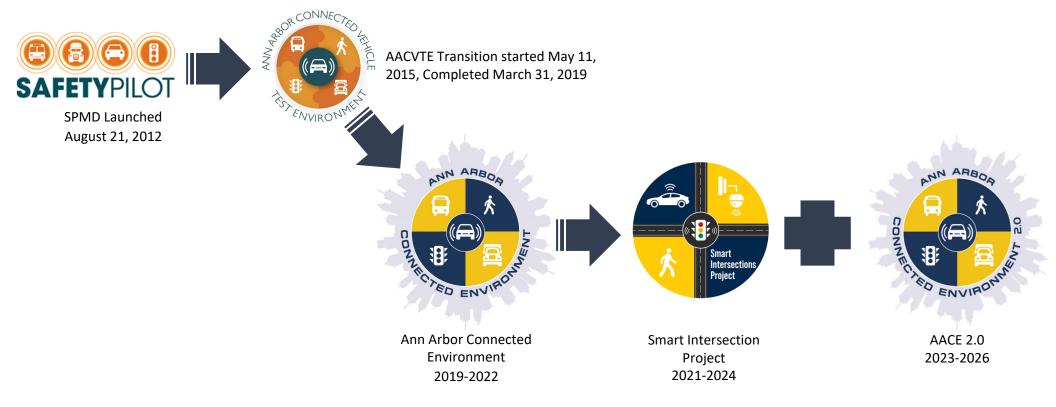


Ann Arbor Connected Environment 2.0 Jim Sayer, Ph.D.

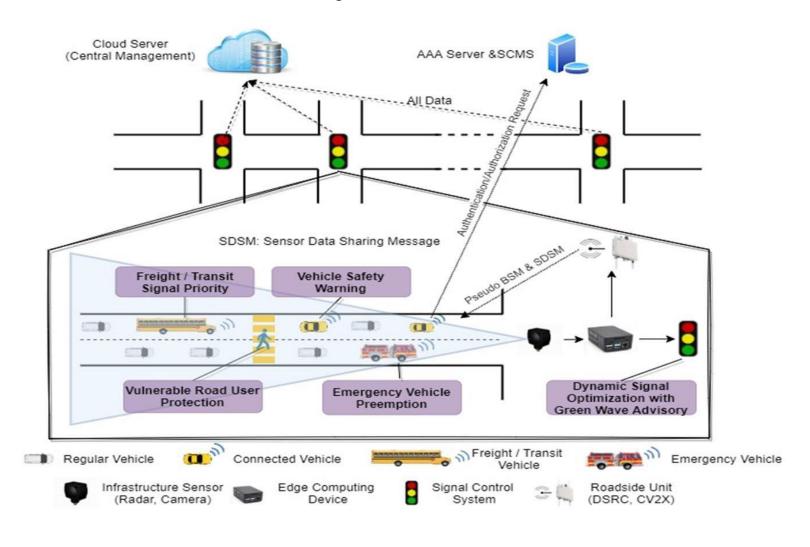




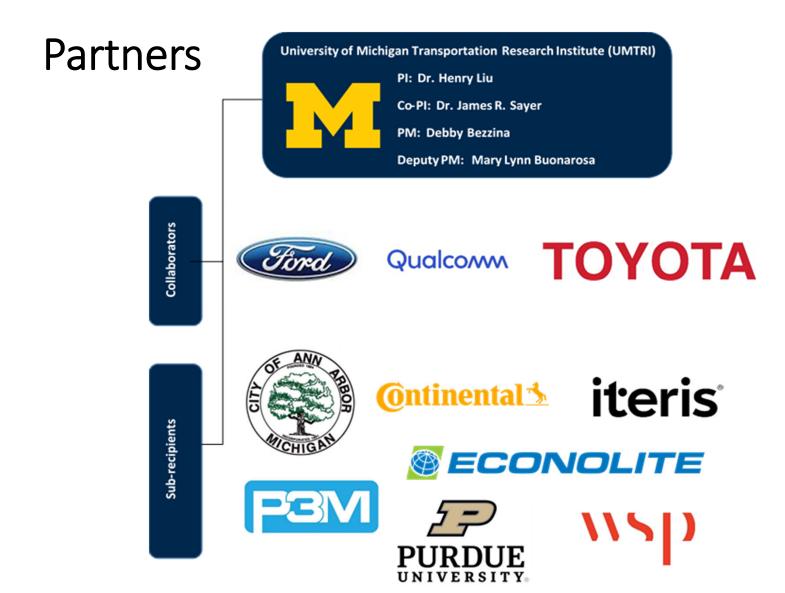
Progression of the Connected Environment



Smart Intersection Project





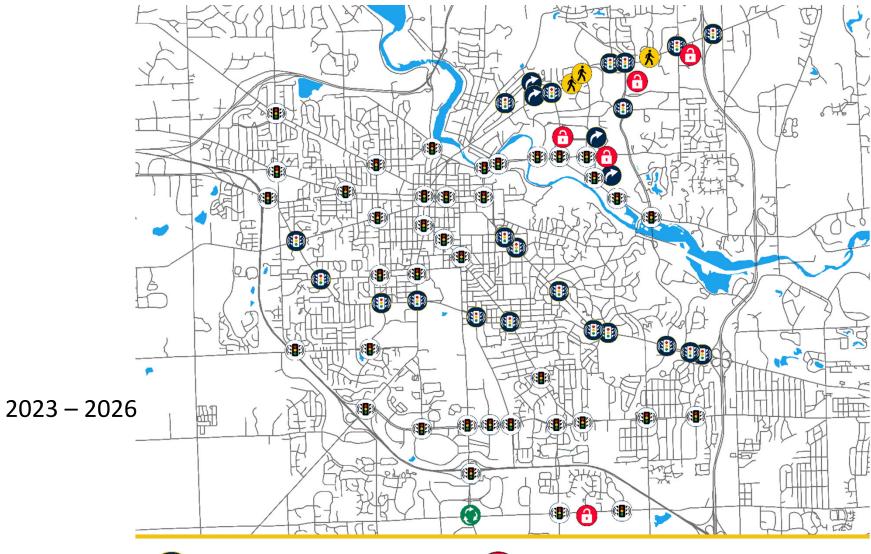




Ann Arbor Connected Environment 2.0

- A 3-year, \$12.7M project
 - \$9,859,240 Federal Funds
 - \$2,847,185 Cost Share
- High-level objectives
 - Replace the Dedicated Short-Range Communication (DSRC) devices in the Ann Arbor infrastructure with Celluar-V2X (C-V2X) equipment
 - Equip at least 100 vehicles with C-V2X radios
- Leverage the existing efforts Smart Intersection Project (SIP)
 - Take advantage of the radio testing and development
 - 21 intersections to be equipped
 - Expand on the sensor deployment







Smart Intersection Site



Testing Site without Security Enabled



Intersection Site



Roundabout



Pedestrian Mid-Block Crosswalk



Curve Speed Warning





What is Different this Time

- Support OEMs and Tier 1s to implement the 5G Automotive Alliance
 U.S. V2I Deployment Guide day-1 applications
 - Red Light Violation Warning, Emergency Vehicle Signal Preemption, etc.
- New to infrastructure ITE Connected Intersection Guideline
- Develop a cloud-base data repository
- Misbehavior detection and revocation
- Additional sensing at as many intersections possible
- Conduct outreach, education and workforce development



Partners

















