#### V2X SUMMIT SPEAKER

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## CENTER FOR CONNECTED AND AUTOMATED TRANSPORTATION

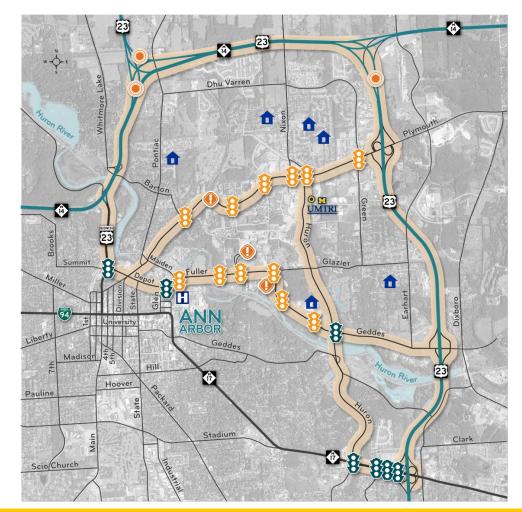
## The Ann Arbor Connected Environment

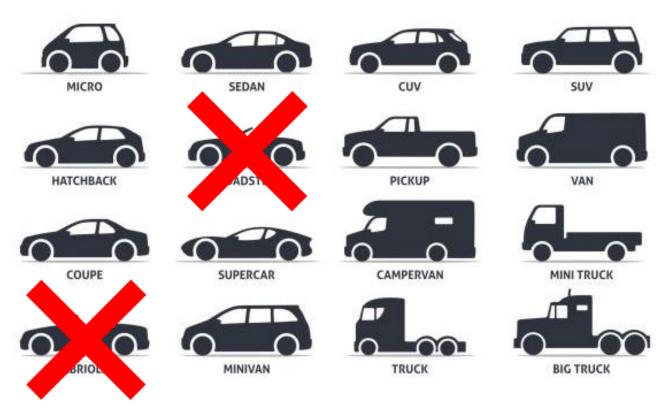
Debby Bezzina August 24, 2022



## **Ann Arbor Connected Environment History**

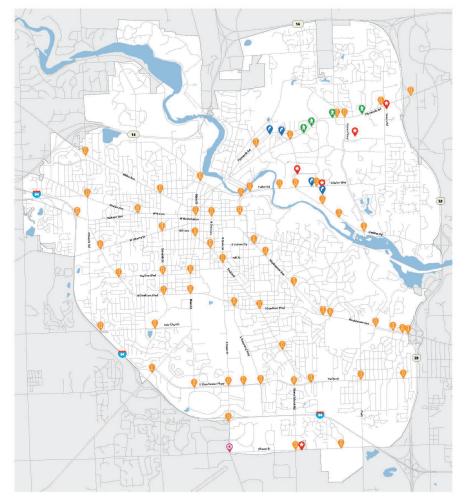


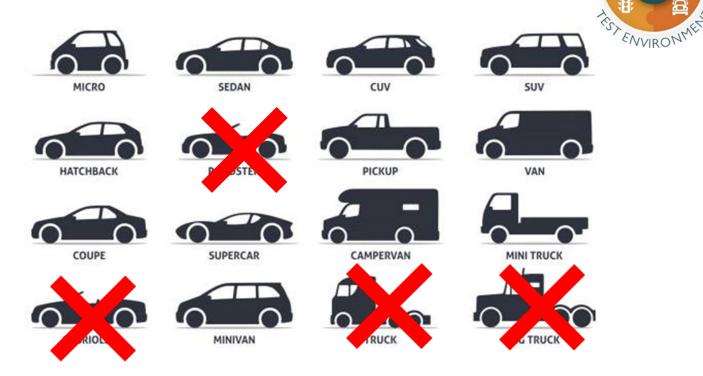




STEP 1: 1<sup>ST</sup> LARGE-SCALE, REAL-WORLD DEPLOYMENT, EVER.

### **Ann Arbor Connected Environment History**

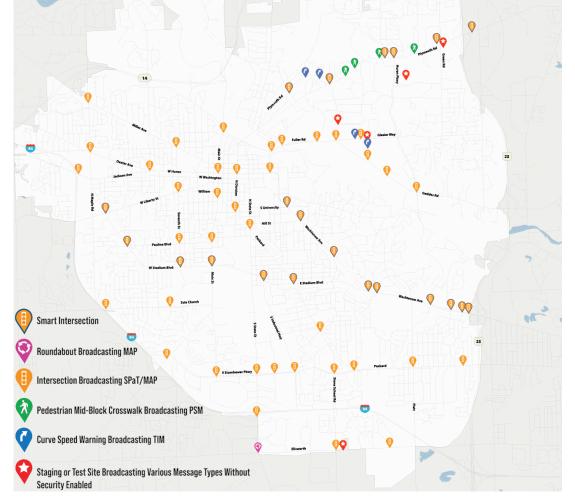




Step 2: Incorporate Lessons Learned and Other Improvements (New Industry Standards)

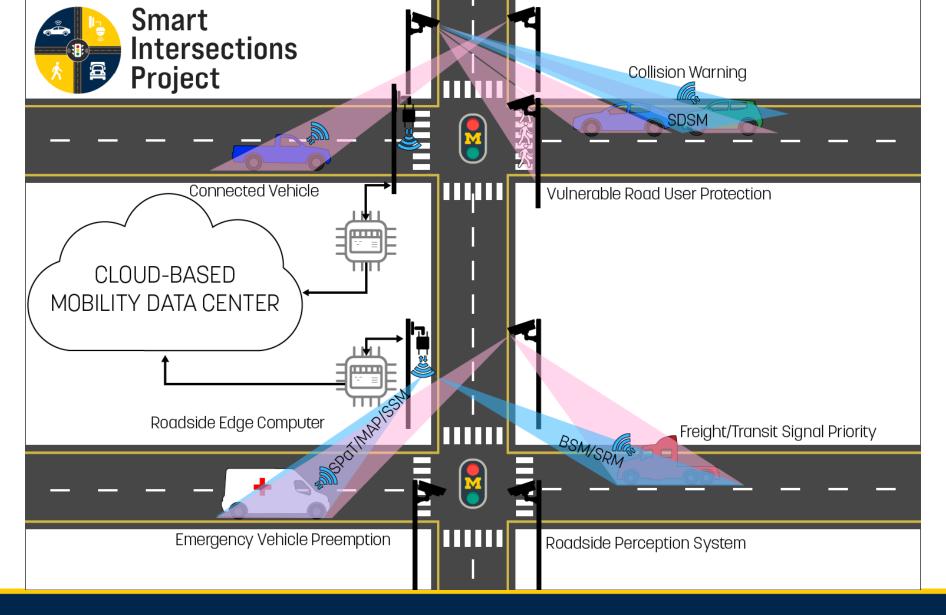


### **Ann Arbor Connected Environment History**





STEP 3: INTRODUCE C-V2X AND 5G NEW RADIO



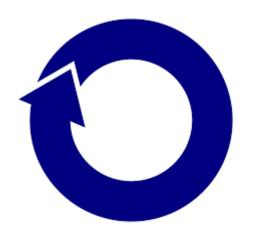


#### **How Do We Get There?**

• Step 1: Test

Step 2: Update and Test Again

Step 3: Update Again and Test Again







## What You May Not Know

- Everything works on paper
- I've never met an RSU that I've liked
- We're back to SPMD days for CV2X
  - These devices are not off the shelf
  - Certification testing in progress
  - Plan for 3 rounds of interoperability testing (bench and field)
- Device Certification doesn't mean it will work in the real world
- Always have OTA update capability

#### Why Do We Do It?

- Connected Vehicles Safe Lives
- Connected Vehicles Reduce Congestion
- Connected Vehicles Reduce GHG
- Connected Vehicles are the path to ADS and CDA









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