

Detroit ADS Grant Program

Background: In 2019, The City of Detroit won a \$7.5M USDOT grant to demonstrate Automated Driving Systems (ADS) with a focus on safety, data collection, and collaboration

Problem Statement



Older adults and people with disabilities (PwD) in Detroit **lack adequate access to transportation** solutions necessary to live a **full and healthy life**

Our Solution

1. **Understand the unique needs** of Detroit's older adults and PwD populations
2. **Procure and extensively test** an accessible **ADS fleet**
3. **Deploy a pilot program** in 1-2 Detroit neighborhoods

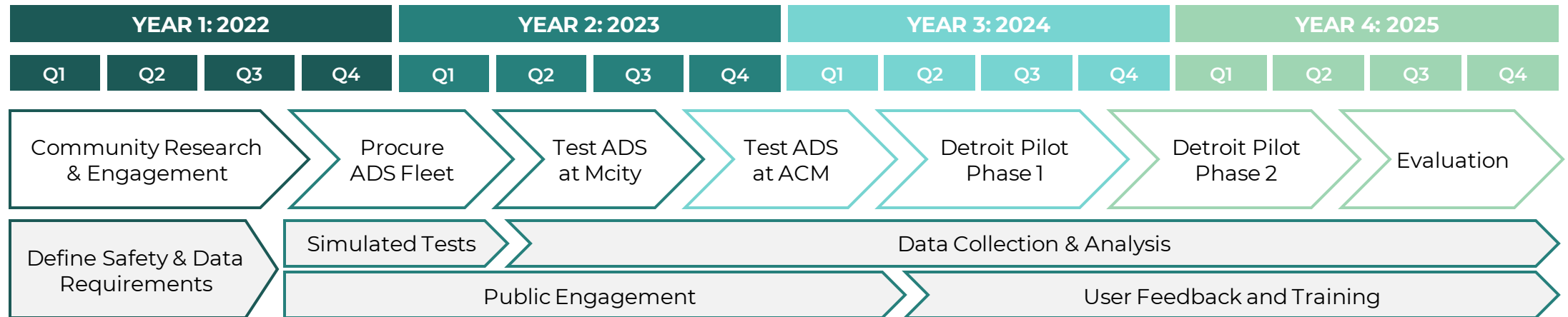
Our Team



The **Michigan Mobility Collaborative (MMC)** is a partnership of **world-class, Michigan-based mobility organizations**



Program Timeline



Program Aspiration

To increase safety, trust, and equity in the transportation system through developing a scalable approach to ADS deployments worldwide, starting here in Michigan.



Program Objectives

SAFETY

Increase safety of urban transportation

DATA

Make ADS data more accessible and usable

COLLABORATION

Increase collaboration among all stakeholders, including residents

MOBILITY EQUITY

Increase the mobility of older adults and people with disabilities in focus neighborhood(s) of Detroit





Sharon Johnson

"Life just isn't the same since I gave up my car."

About Sharon

Sharon is a grandmother of twelve residing in NW Detroit. She loves her neighborhood and is a regular at the NW Activities Center. However, as Sharon has gotten older, it has become more difficult for her to get to doctor appointments, the store, and family gatherings.

AGE	72
OCCUPATION	Retired
HEALTH	High Blood Pressure
LOCATION	Bagley, Detroit
INCOME	\$29K / YEAR

Sharon's Challenges

Lack of easy-to-use transportation has limited Sharon's ability to live a full, healthy life

- Sharon **does not own a car** due to the high cost of ownership as well as her older age
- Sharon relies on the bus to get around. However, **restrictions exist** such as:
 - Limited ability to carry groceries
 - Challenges during extreme weather
 - Lack of route access to her doctor
- She sees friends and family less because she does not like burdening others for rides.
Getting around is a hassle
- Recently **skipped a doctor's appointment due to transportation issues** and stopped taking her blood pressure medicine because she couldn't get to the pharmacy

ADS Opportunity

Autonomous driving systems (ADS) can improve Sharon's quality of life

- ADS can **greatly impact Sharon's mobility challenges**, for example:
 - Shuttle from house to the bus station
 - Dropping Sharon off at block club or family gatherings, rain or shine
 - Delivering fresh groceries or medicine
- ADS will allow Sharon to **feel connected** with her family, friends, and community and access the basics she needs to **live a full, healthy life**

To embrace this solution, Sharon needs to be convinced that ADS is safe, reliable, and easy-to-use

