

# Driving the Future of Transportation

## Valley Metro's Partnership With Waymo



CONNECT COMMUNITIES

ENHANCE LIVES

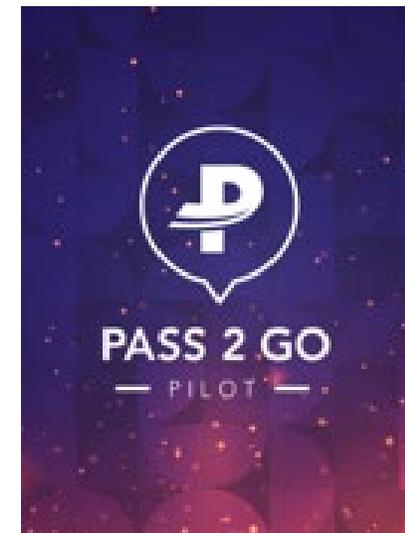
VALLEY METRO, PHX AZ

# Today's Topics

- FTA Mobility on Demand (MOD) Sandbox
- Autonomous Vehicle (AV) Demo
- Project Overview
- Why Partner?
- What do we Want to Learn?
- Data and Information Collection Plan
- User Experience
- Next Steps

# FTA Mobility on Demand (MOD) Sandbox

- Empower transit agencies to explore innovative business models and partnerships to deliver high-quality, seamless and equitable mobility options
- Inform the USDOT and communities on how to approach MOD and structure future MOD policies, and support FTA grantees



# FTA Mobility on Demand (MOD) Sandbox



Valley Metro's mobile app grant proposal was to develop a mobile app that:

- Provides a more robust trip planning experience
- Produces a mobile ticket for bus and rail
- Provides a single payment solution for both public transit and the TNC project partner, Lyft

# Autonomous Vehicle (AV) Demo

\$250K EXTRA AWARDED FOR "DEMO"

- + \$80K local = \$330K Total Budget

FIRST/LAST MILE CONNECTOR OR LOCAL CIRCULATOR

DATA COLLECTION ON LESSONS LEARNED

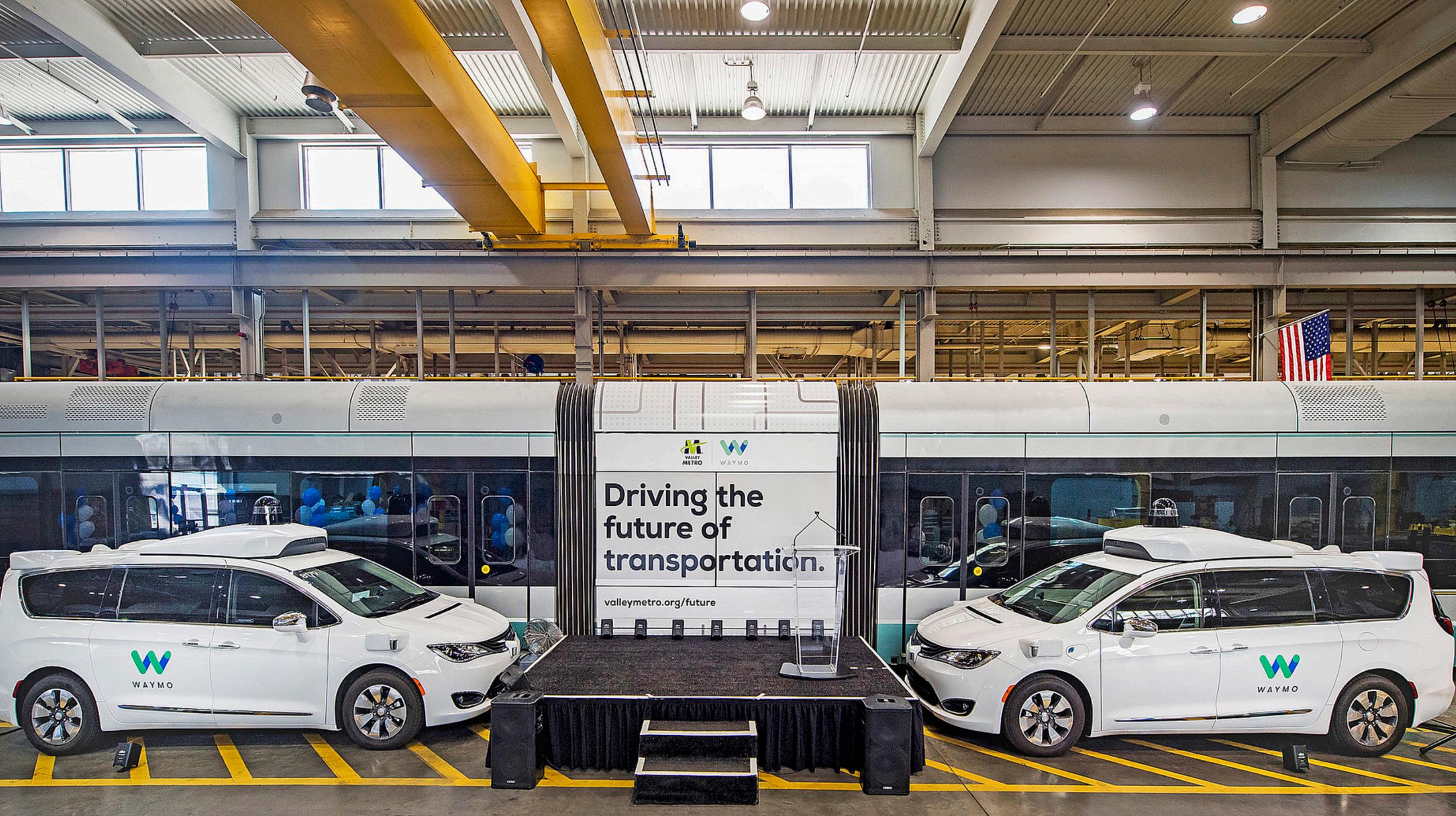


# Autonomous Vehicle (AV) Demo

## RIDECHOICE PROGRAM

- On demand transportation program
- 20 one-way trips per month
- 50 one-way trips per month if using for school, work, or medical appointments
- \$3/trip up to 8 miles; \$2 per mile thereafter
- Average trip cost is \$20; whereas paratransit is close to \$50





Driving the  
future of  
transportation.

[valleymetro.org/future](http://valleymetro.org/future)





# Project Overview

July '18

## Partnership Announcement

Waymo to partner with Valley Metro to explore mobility solutions that use self-driving technology to better connect travelers with Valley Metro's services.

Sept '18

## Phase 1 Launch

Valley Metro employees invited to use Waymo to commute (first/last mile), and run personal errands. We chose to begin with employees to gather feedback and document lessons learned before opening to RideChoice riders.

Mar '19

## Phase 1 Learnings & Phase 2 Planning

Identify any barriers to entry and start preparing for Phase 2, which provides another mobility option for RideChoice riders.

Q3 '19

## Phase 2 Anticipated Launch

RideChoice customers will have the option to hail Waymo rides within the service area. At this stage, we will run a research study with ASU and Waymo to evaluate adoption of technology and its impact on this group.

# Partnering, Learnings and Data & Information Collection Plan



# Why Partner?

- Improve customer experience
- Improve air quality, congestion, flexibility, etc...
- Improved service and mobility...
- Leveraging technology & infrastructure...
- Learning...

**We don't know what we don't know...**

# What Do We Want to Learn?

## DATA AND INFORMATION COLLECTION PLAN

**Conduct research to learn how new types of service delivery integrating on-demand, self-driving cars can:**

- Give riders more travel options;
- Improve connectivity to the existing transit network;
- Enhance overall customer experience on all modes of transit; and
- Improve riders' safety and sense of security.



# User Experience and Next Steps



# User Experience

- Trip planning
- First and last mile connections
- Flexibility
- Independent research



# Waymo 360° Experience:

A fully self-driving journey

<https://youtu.be/B8R148hFxPw>



# Where do we go next?

We look forward exploring opportunities for further collaboration

## Shared Spaces

Bus Stops  
Transit Centers

## Customers

1st/last-mile  
Light Rail

## Technical

Mapping  
GIS - Drop-off/pick-up



# Thank you.

[valleymetro.org/future](http://valleymetro.org/future)

Angie DeVore  
[adevore@valleymetro.org](mailto:adevore@valleymetro.org)

Joe Gregory  
[jgregory@valleymetro.org](mailto:jgregory@valleymetro.org)

Hannah R. Quinsey  
[hquinsey@valleymetro.org](mailto:hquinsey@valleymetro.org)

Connecting communities. Enhancing lives.

