Where Self-Driving Cars Go to Learn

Arizona's promise to keep the driverless car industry free of regulations has attracted dozens of companies, including Uber, Waymo and Lyft.

By CECILIA KANG  NOV. 11, 2017
## A Unique Opportunity . . .

- New Travel Choices
- Ridesharing
- Better Car Ownership Alternatives
- Safer Streets
- Improved User Experience
- Efficient Network Management
- Repurposed Parking
- Space for Housing
- Public Space

## ...but not without concerns.

- Increased VMT
- Empty Vehicle Circulation
- Fight for the Market
- Less Dense Urban Form
- Higher Road Congestion
- Longer Travel Times
- Decline in Local Transit Use
- Inequity
- Cyber Attacks
- Privacy Concerns

Source: Future Mobility Research Program, Metropolitan Transportation Commission, San Francisco Bay Area, October 2017. Downloaded November 1, 2017.
Literature Review Ranges for Key Variables

**Timing**
- 3 to 13 years until fully driverless vehicles available for purchase.

**Safety**
- +40% to +90% increase in safety.

**Capacity**
- 0% to +45% increase in roadway capacity.

**Demand**
- +5% to +40% increase in VMT.

**Energy/Emissions**
- -50% to +100% change in GHG emissions.

Source: Future Mobility Research Program, Metropolitan Transportation Commission, San Francisco Bay Area, October 2017. Downloaded November 1, 2017.
How will these vehicles affect our planning process?
Scenario Planning
CONNECTED VEHICLE/AUTONOMOUS VEHICLE FUTURE

COMMON INFRASTRUCTURE NEEDS AMONG SCENARIOS

Uncertainty

Future - 2050

TIME

Today - 2017

Scenarios depicted in this slide are for illustration purposes, only.
Developing MAG’s Next Regional Transportation Plan

- Transportation values survey of the public and stakeholders to be conducted Summer 2018.
- Technical studies and policy consideration in 2019 and 2020.
- Targeted adoption in 2021.

SCHEDULE SUBJECT TO CHANGE

Tentative Information. Data and needs summary subject to change from continuing MAG studies.
Roles for MAG to Consider

- Serve as an information clearinghouse.
- Evaluate a range of effects on long-range plans.
- Consider developing guidance documents, templates, etc. for use by local governments.