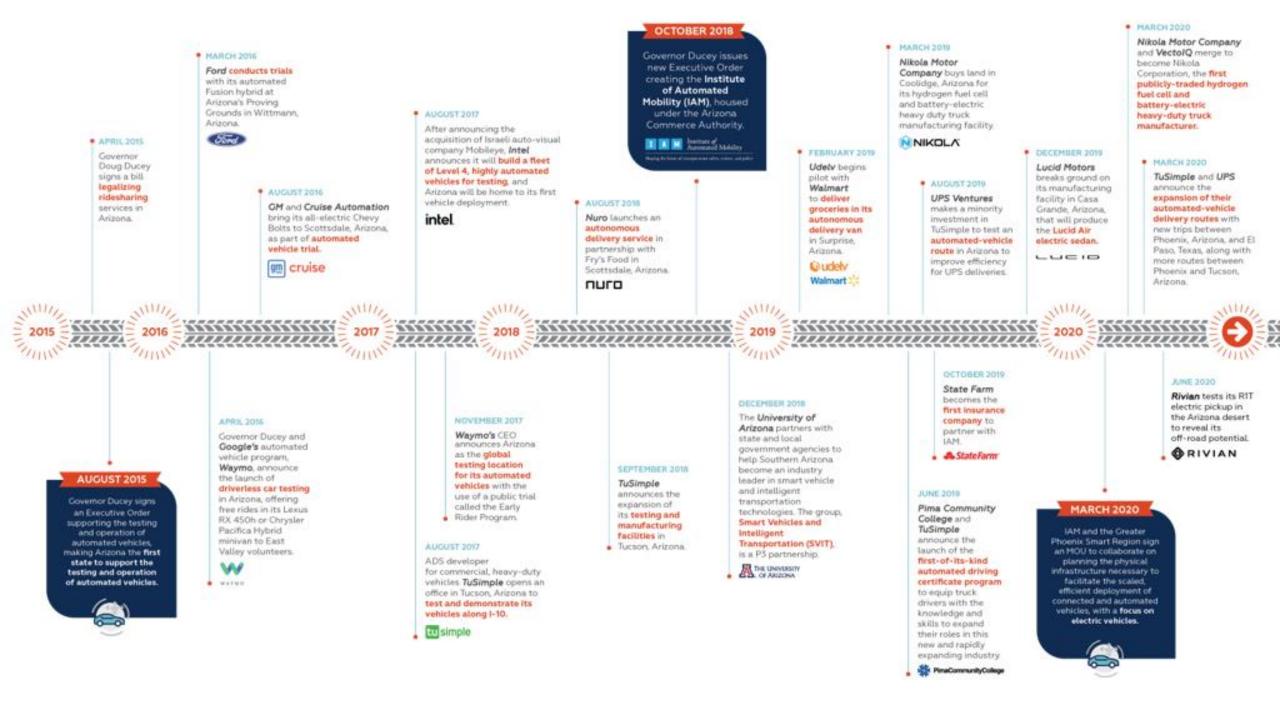
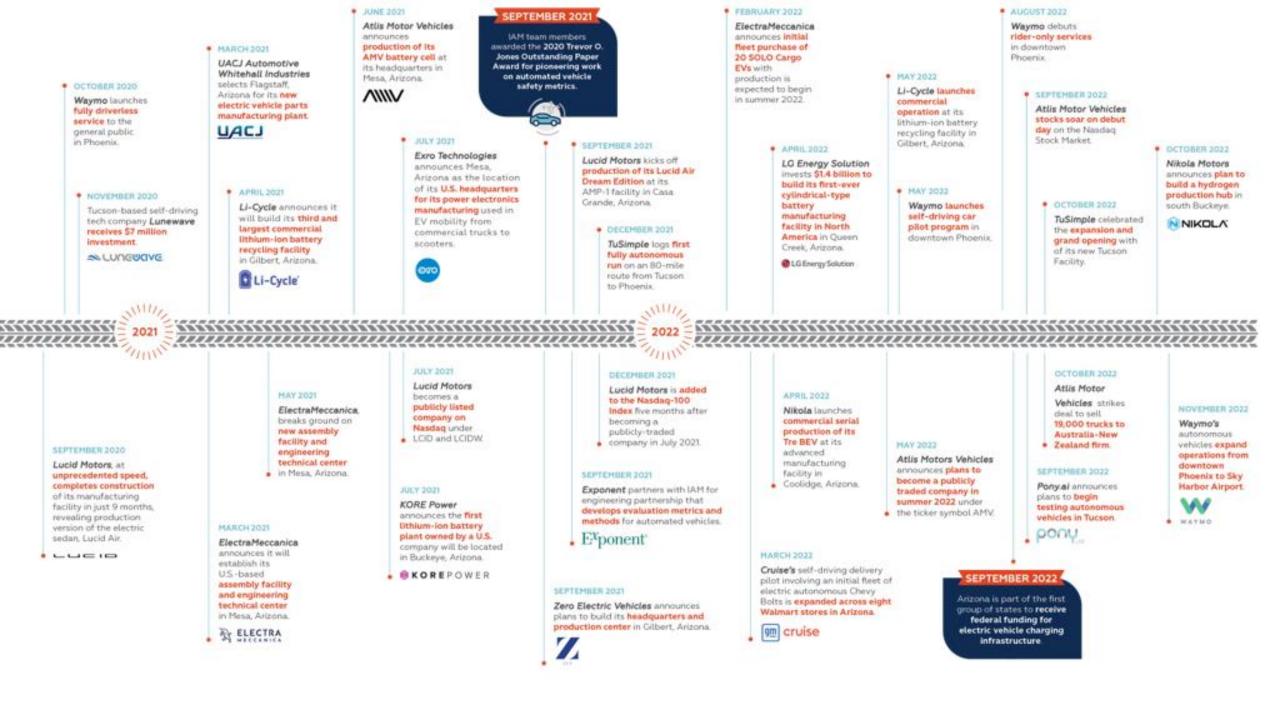
October 19, 2023

# Advanced Mobility: An Innovation Engine in Arizona









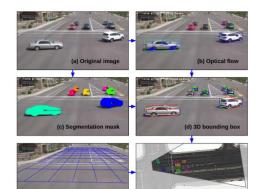


Shaping the future of transportation safety, science, and policy

#### A public-private partnership

- position AZ as a leader in safe commercial deployment of advanced mobility technologies
- transform use inspired research into economic development by supporting new startups and mobility breakthroughs
- support information and best practice sharing events
- A "industry-driven, government supported, technology neutral" approach
  - provide access to infrastructure for entrepreneurs to prove their concepts
  - minimize risks with new technology adoption and first look for public sector
  - explore new market opportunities
  - foster professional skills development for students











#### **Umbrella Organization**

There is a role to play for a neutral umbrella organization in the state which could provide on-going information to stakeholders regarding changes in technology, polices, best practices and other potential benefits. This organization may also:

- Facilitate an information exchange between municipalities and technology companies.
- Provide information and support for grant funding.
- Assemble tools and best **practices to assist communities** in evaluating the best way forward for their situation, needs and priorities.
- Focus on providing **public entities such as first responders** the information and resources needed to begin training and education to remove the current questions and ambiguity.
- Explore the opportunities and drawbacks surround cyber security and data ownership.
- Identify additional professions who could be consulted to identify strategies to reduce disruptions.

In conclusion, there is currently a wide gap between AV/CV concept and realty for most Arizonans. Consistent education, involvement and awareness will help shorten the gap as AV/CV continues to mature.



# **SMART GRANT**



Shaping the future of transportation safety, science, and policy

## Strengthening Mobility and Revolutionizing Transportation

\$1.7 MILLION TO DIGITIZE ARIZONA ROADWAYS FOR VEHICLE TO EVERYTHING TECHNOLOGY



## A Sample of Unmanned Aerial Systems (UAS) Activities

#### **Diverse Use Cases**

• Transportation, Public Safety, State Land, Commerce

#### Information Sharing Events

- 2019 How to grow a UAS program & What UAS can work for you Forum
- 2019 UAS Regulatory Panel
- 2020 Pinal County, High Traffic Intersection Assessment, Brown Bag Luncheon
- 2020 UAS for Traffic Incident Management Session
- 2021 Arizona UAS 2-Day Virtual Forum with USDOT, OH, UT, CA, TX, NC + 8 Tribal Nations
- 2023 Navajo Nation & FAA's <u>Drone On 3</u> day (students & educators; public safety & public sector)
- 2023 Honeywell's AAM Summit & Upcoming "Discover the Future of Sustainable Travel with Honeywell" (Oct 18, Webinar)
- 2-23 National Academies & TRB Project (NCHRP 23-20) develop a <u>Guidebook for Implementation of UAS Operation</u> <u>Capabilities (include UTM, AAM with focus on state DOTs)</u>

#### Education & Workforce Development

- ASU Drone Studio & ERAU Training Lab
- Yavapai, Cochise, Chandler and Arizona Western Community Colleges
- High School CTE programs
- Potential focus in future A&D accelerator



## **Advanced Air Mobility**

2018 NASA & FAA Grand Challenge

• Study of 10 Metros Phoenix-Mesa Metro stood out with favorable regulatory and weather conditions & anticipated to be an early adopter.

#### 2022 Honeywell's UAS and AAM Lab

 Headquartered in north Phoenix, goal to have air taxi make 100-mile trip in 45 minutes and provide same day package delivery to 20% of US that does not have this service.

Key Areas for AAM Implementation

- Prioritizing Community and Citizen Integration
- Managing AAM Traffic
- Building Scalable Infrastructure
- Designing Robust Security
- Developing AAM Vehicles
- Bolstering Workforce Development





# **THANK YOU**

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