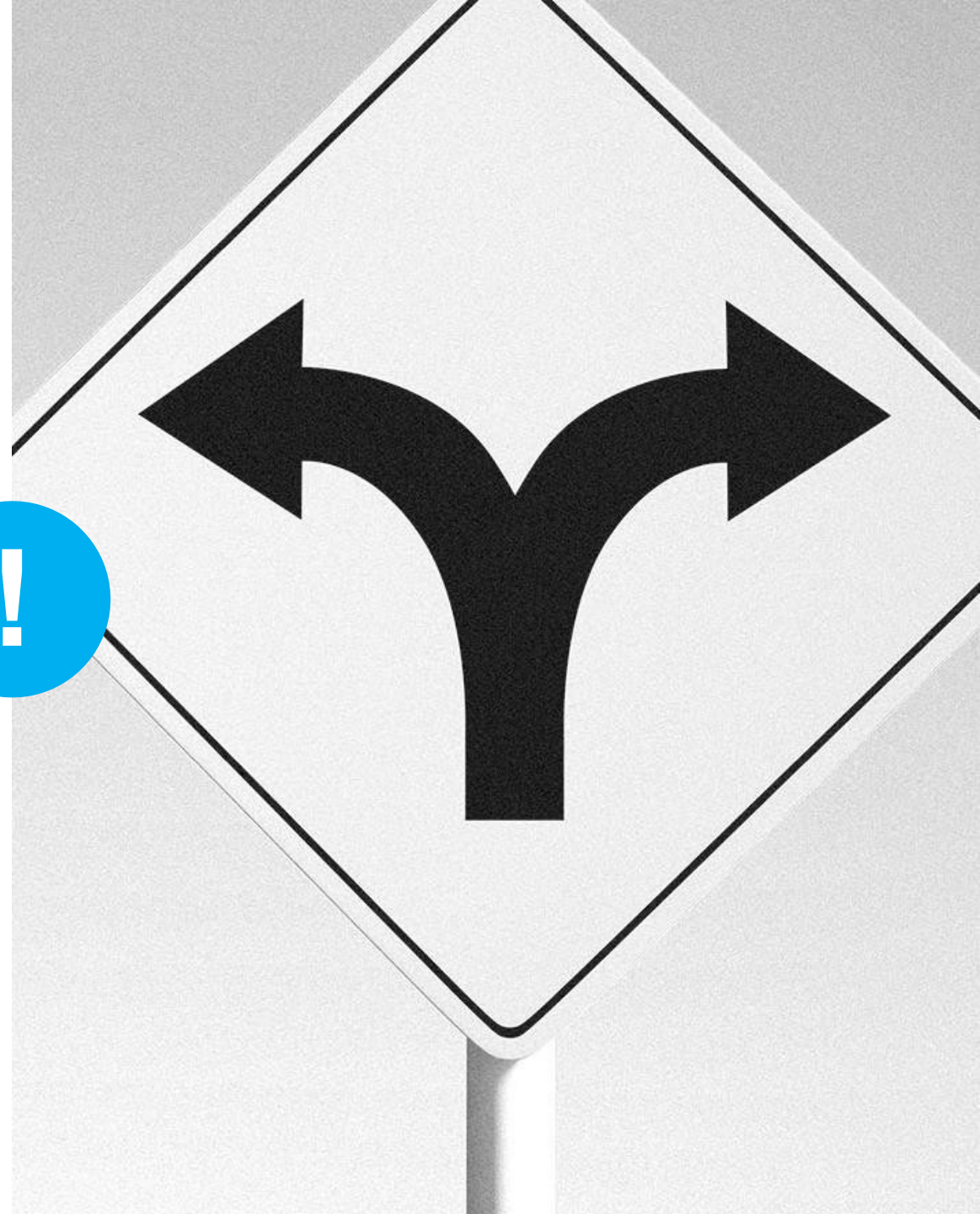


Institute for Automated Mobility

Shaping the Future of Transportation Safety,
Science, and Policy

THE PROBLEM

The large-scale market and societal disruption being caused by automated vehicles and the lack of safety standards is slowing down the commercialization of technology and putting the industry at risk.



94%

of vehicle crashes are
due to human error

7B Hrs

spent in traffic
in the US in 2014

37,133

Americans died in vehicle
crashes in 2017

\$871B

in economic and societal costs
from US crashes in 2014

The Opportunity

In a 2018 spending plan,
U.S. DOT plans to spend
\$100M
for automated vehicle R&D

Intel predicts the passenger
economy to represent a
\$7T
global opportunity
by 2050

Companies expect to spend
\$225B
in R&D and capital investments
on automated vehicles by 2023

From 2035 to 2045, AVs are expected to save
585,000 Lives
&
250M Hours
of commuting time per year



Shaping the future of transportation science, safety, and policy

A consortium of **global industry leaders**, the **brightest minds in academia**, and a government team **committed to embracing innovation**, collaborating in **state-of-the-art research, development, testing and evaluation**, and establishing public education and outreach initiatives that **advance automated vehicle safety, science, and policy**.

WHY ARIZONA

Arizona has already been leading the way in encouraging the development and testing of automated vehicle technology.

2015

Gov. Ducey issues an executive order to support automated vehicle technology & establish consistent regulatory and operational environment

•
Gov. Ducey establishes Self-Driving Oversight Committee

2016

Intel forms Autonomous Driving Division in Arizona

•
Waymo is spun out of Google; opens location in Chandler

•
Uber relocates automated vehicle fleet to Arizona

•
GM and Cruise Automation move testing to Arizona

2017

Intel announces Arizona as a testing location

•
Intel and ASU initiate collaborative AV safety research

•
Waymo announces Arizona as its global testing location

2018

Gov. Ducey updates first executive order, in light of advancements in technology and testing

•
Gov. Ducey issues new executive order creating the **IAM**

2019

Roadmap

•
1st Project

•
Industry Members Announced

Intel
Exponent
State Farm

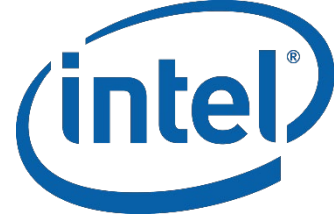
IAM STRUCTURE

The **Leadership Advisory Board**
develops yearly research thrusts and roadmaps &
approves IAM activities, research and spending

The **Technical Leadership Team**
creates solicitation,
develops research teams, &
manages or assists research projects

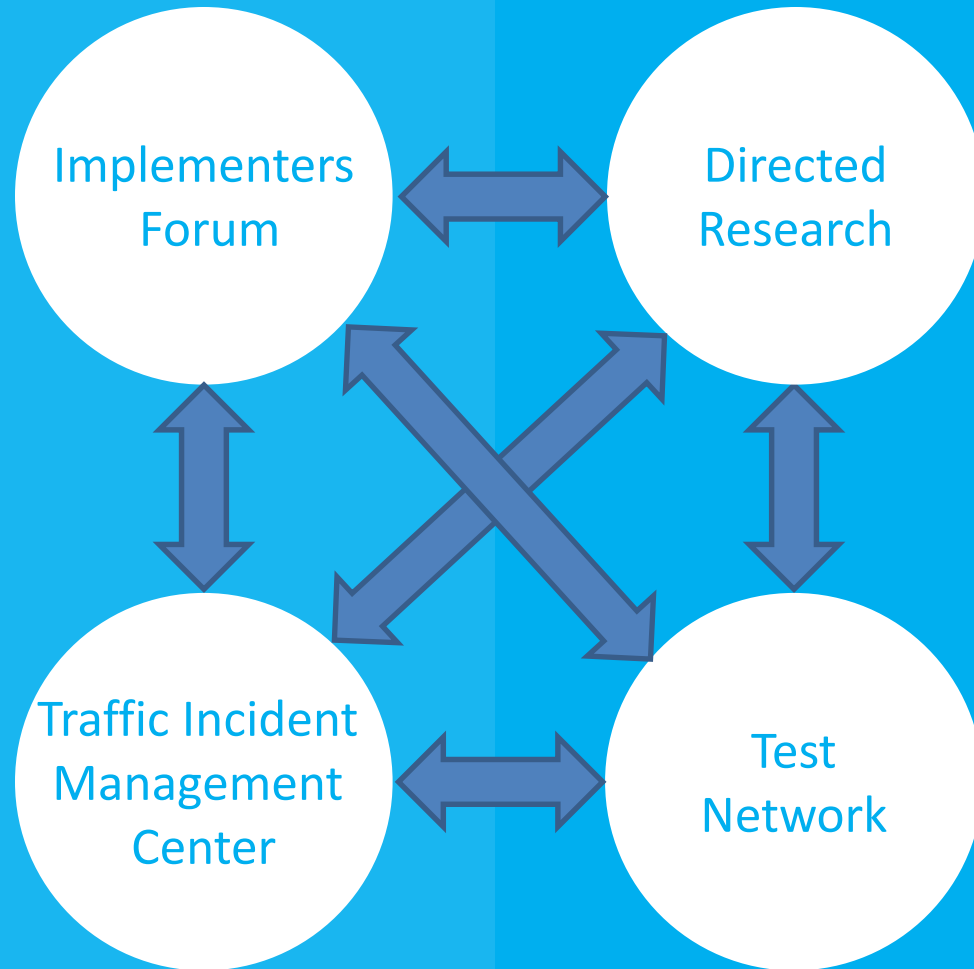
Research Teams
are a **consortia-wide network** of
highly qualified academic and industry researchers

Leadership
Members



IAM identified

FOUR FOCUS AREAS



The IAM's mission is to become a **globally recognized entity** that offers **unique resources** and **consortia** to its Members

including:

- Access to industry and academic researcher network, organized by **industry-relevant** specialty
- Access to **close government collaboration**, including Governor's office, Commerce Authority, DOT, DPS and others
- Access to a **state-wide test network**, including an open-source simulator, unique in the AV world
- Access to an industry-led **Implementers Forum** working with the imprimatur of State and regulatory agencies
- Access to a **Traffic Incident Management Center** closely linked to first responders and government agencies, developing best practices in TIM

Where we're going

3-year goals:

- Establish and host annual Automated Futures Summit
- Create open-source HD map for Maricopa County
- Create open-source simulation tool for IAM members
- Establish IAM home testing facility
- Release best practices deliverables from the Implementers Forum
- Create open-source HD map for Arizona
- Establish AV Engineering program at one or more Arizona Universities
- Establish “Instrumented State” corridors
- Release best practices deliverables from the Implementers Forum

THANK YOU

Contact: IAM@azcommerce.com | Visit: azcommerce.com/IAM
Karl.Theisen@asu.edu