



GOVERNMENT/INDUSTRY MEETING

January 18-20, 2022 | Washington, DC or Online
[sae.org/glm](https://www.sae.org/glm)

Executive Leadership Provided By



*This meeting is co-located with WASHINGTON, DC AUTO SHOW 

Partnership for Analytics Research in Traffic Safety

Presenter: Schuyler St. Lawrence



TM

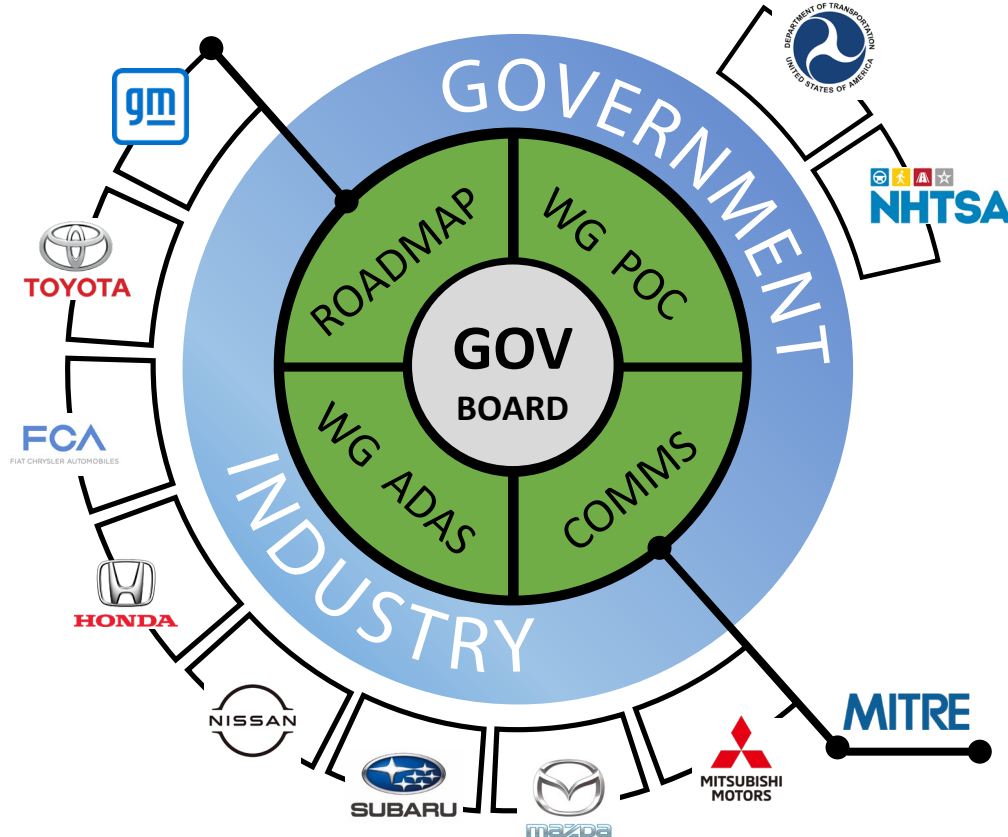
[NHTSA.gov/PARTS](https://www.nhtsa.gov/PARTS)



About PARTS

Phase II

- Eight Automakers
- 70% Market Share



2020

- Organizing for Scale

2021

- Operating at Speed
- Planning for Growth

About PARTS

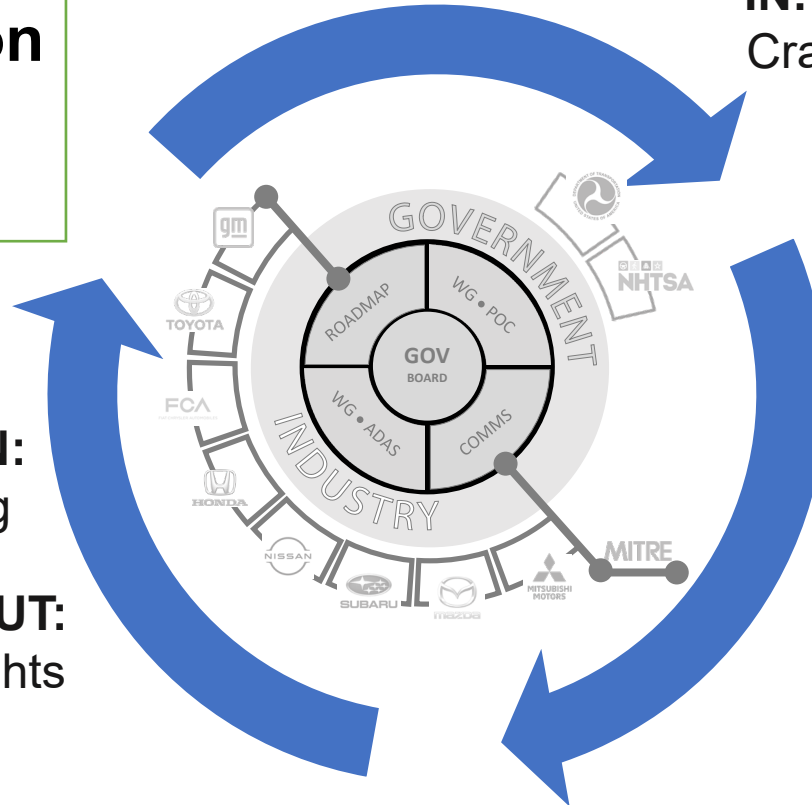
**Collaboration
Expertise
Trust**

IN:
Crash Data & Funding

OUT:
Aggregated Results

IN:
OEM Data & Decoding

OUT:
Benchmark Insights



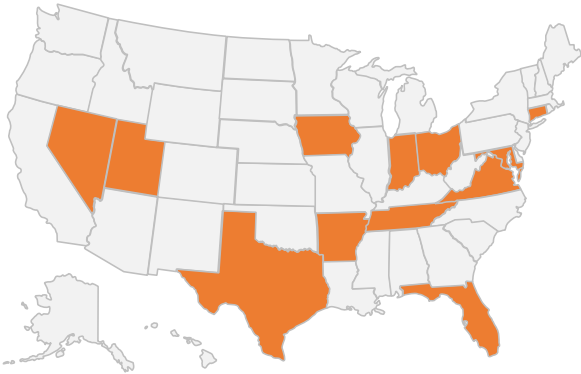
Role:

- Data Stewardship
- Analysis
- Program Integrator

Large Partner-Provided Dataset Enables Meaningful Results

NHTSA Crash Data

- Police-reported crash data (NHTSA)
- 21.7M vehicles from 12.2M crashes
- 13 states participating



Auto Manufacturer's Vehicle Equipment Data

47 million passenger vehicles

93 models (MY2015–MY2020)

MY 2020 is partial data

7 vehicle segments

1. small cars
2. midsize cars
3. large cars
4. small SUVs
5. midsize SUVs
6. large SUVs and pickups
7. minivans

After the crash data is linked to vehicle equipment data, we have 2.4M crash-involved study vehicles

ADAS Market Penetration Rates

for Features Examined in PARTS Study

Penetration rates are reported for the following ADAS features



Automatic
Emergency
Braking (AEB)



Pedestrian
Automatic
Emergency
Braking (PAEB)



Lane
Departure
Warning
(LDW)



Lane
Keeping
Assistance
(LKA)

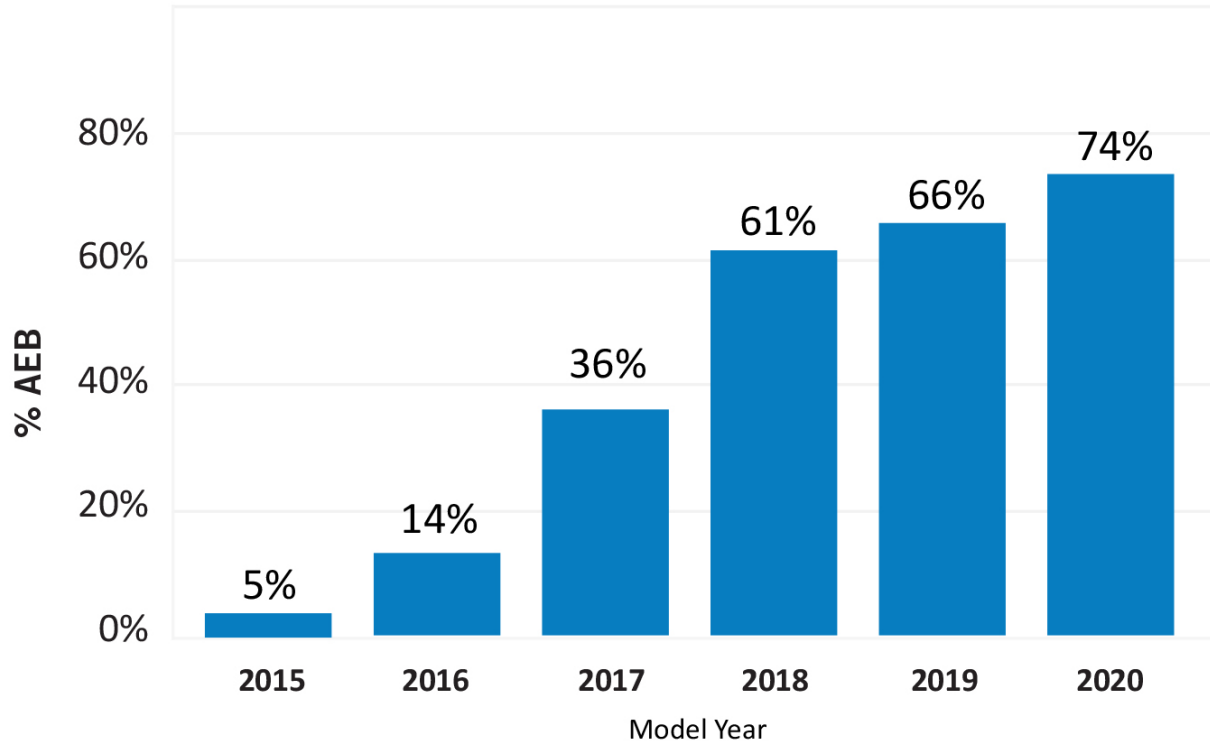


Blind Spot
Warning
(BSW)



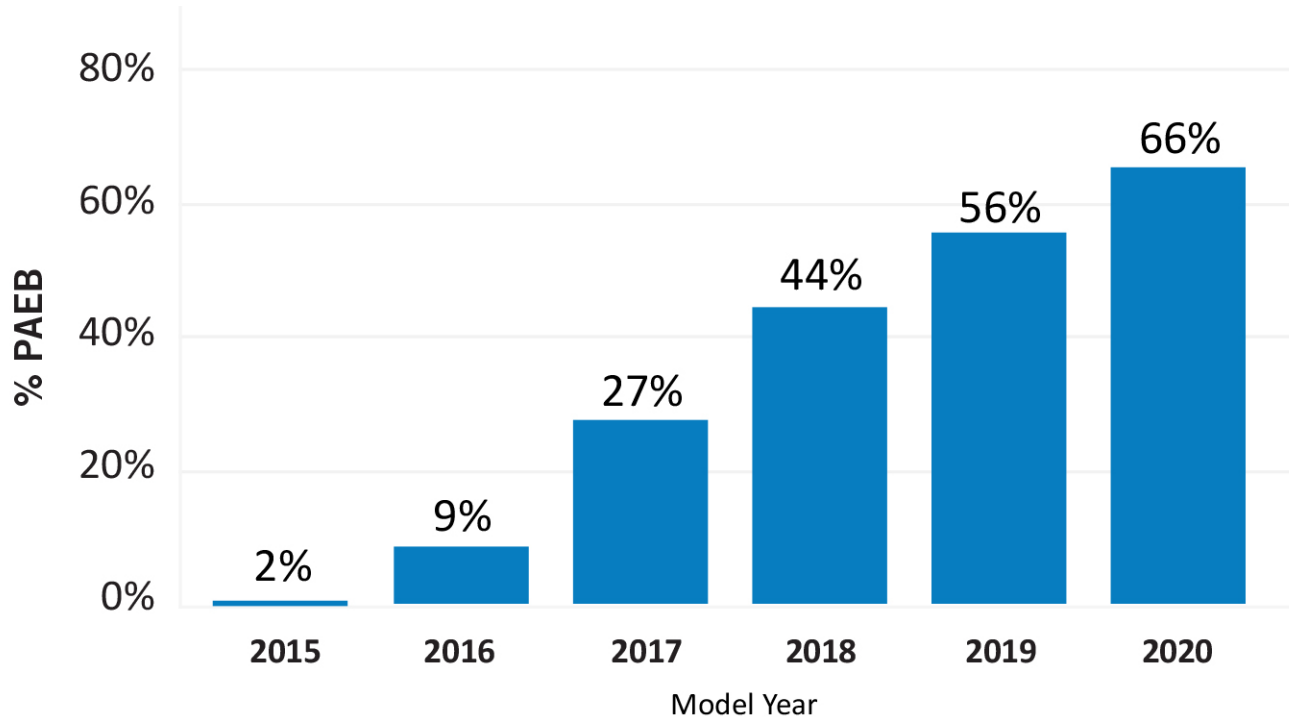
Automatic Emergency Braking (AEB)

AEB penetration increased from 5% to 74% over 6 years for vehicles in the PARTS study set



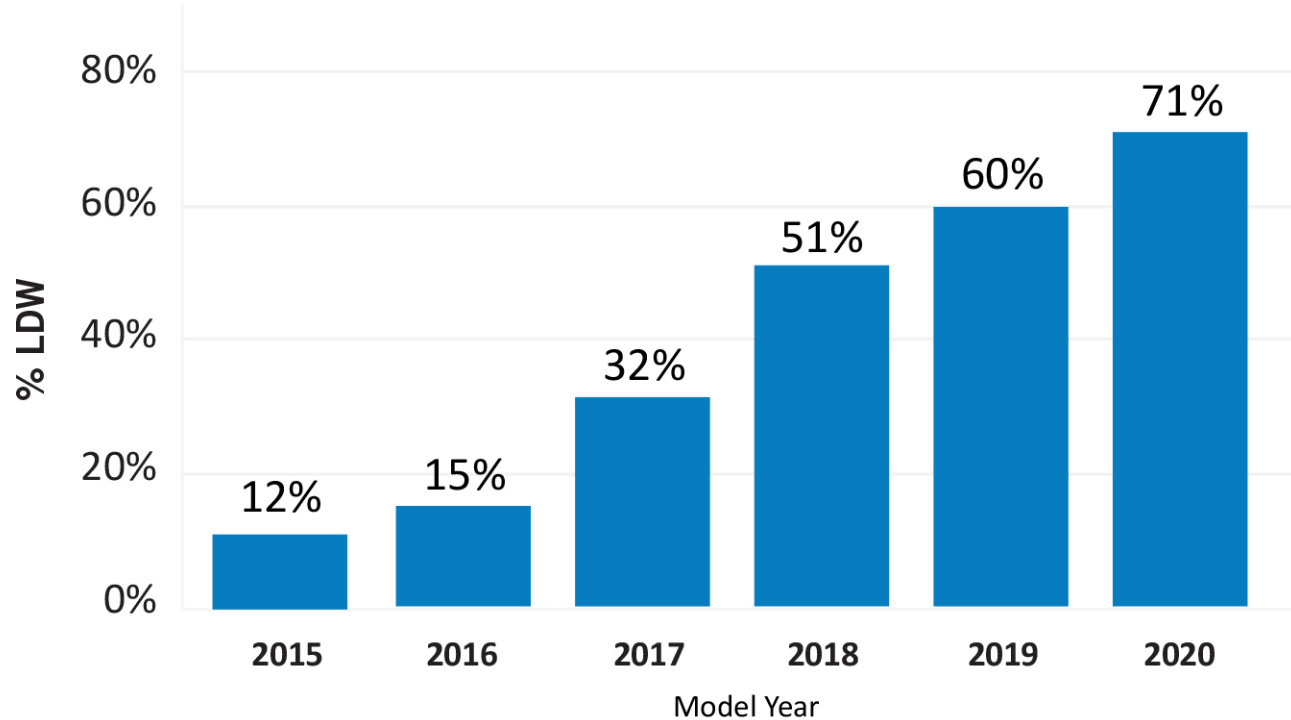
Pedestrian Automatic Emergency Braking (PAEB)

PAEB penetration increased from 2% to 66% over 6 years for vehicles in the PARTS study set



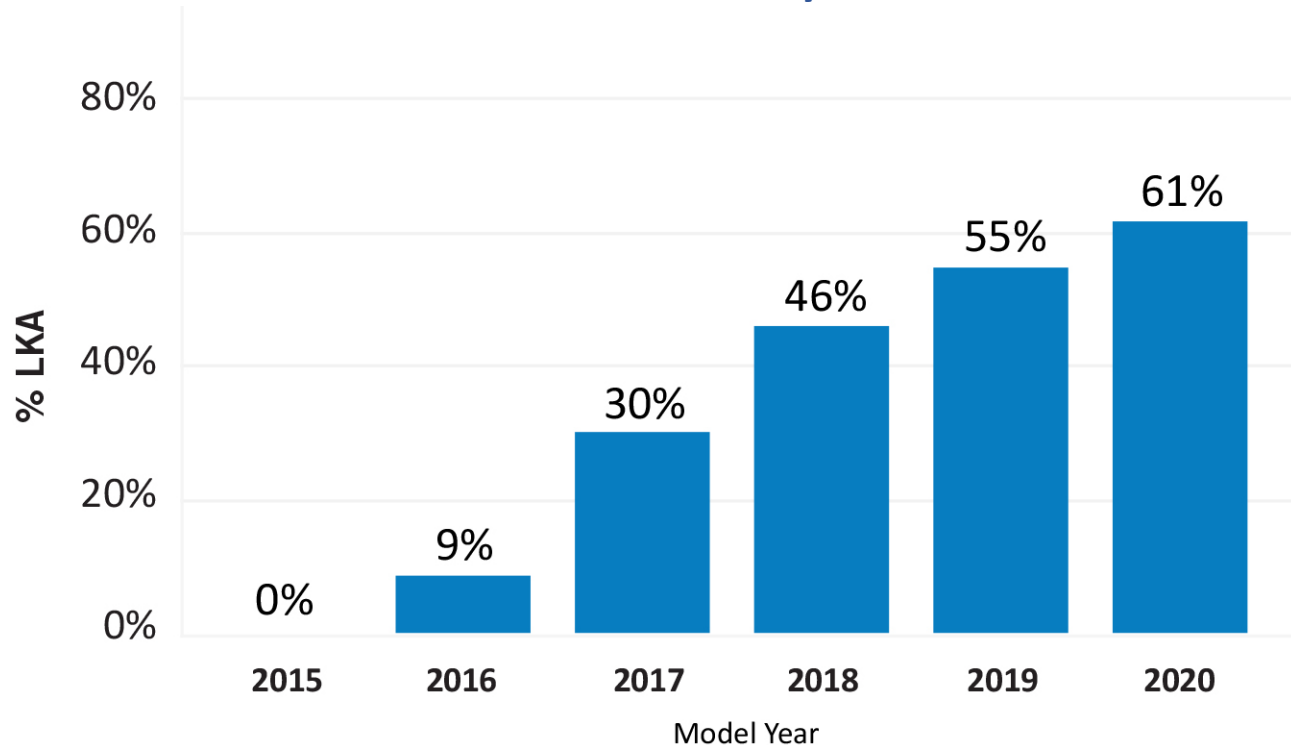
Lane Departure Warning (LDW)

LDW penetration increased from 12% to 71% over 6 years for vehicles in the PARTS study set



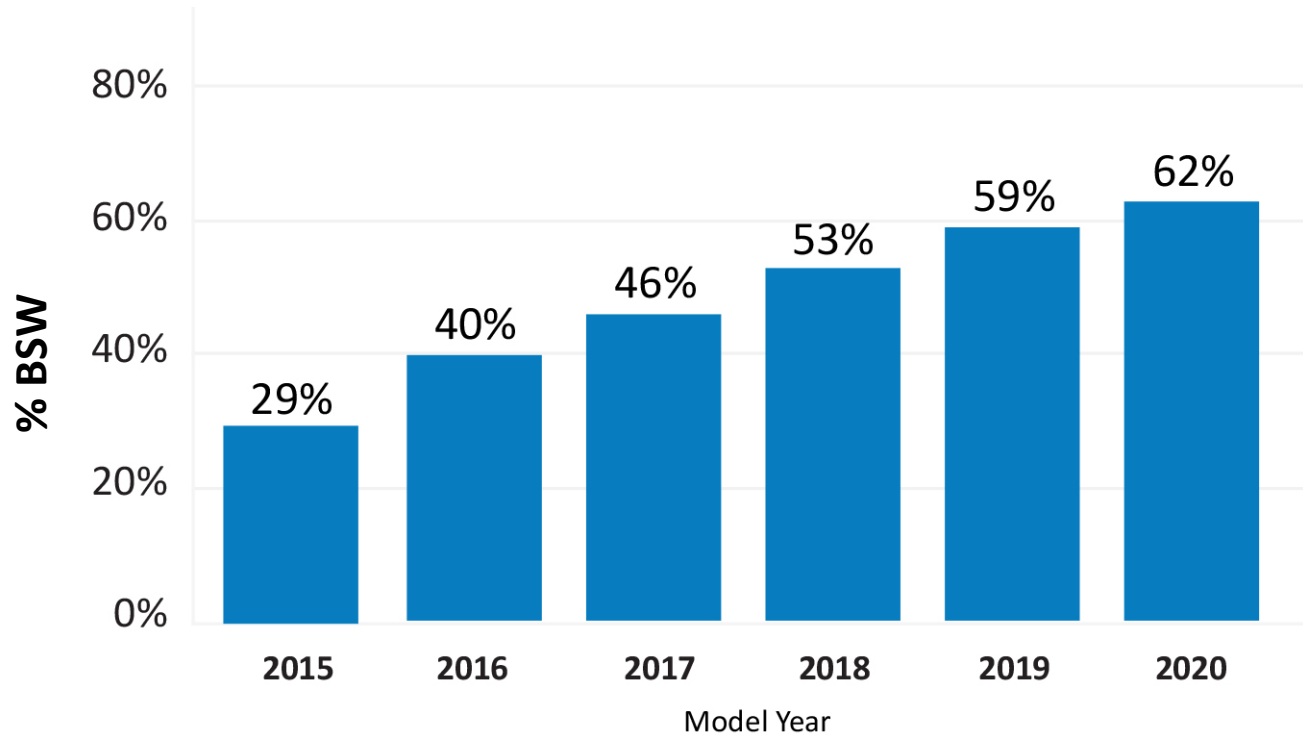
Lane Keeping Assistance (LKA)

LKA penetration increased from <1% to 61% over 6 years for vehicles in the PARTS study set



Blind Spot Warning (BSW)

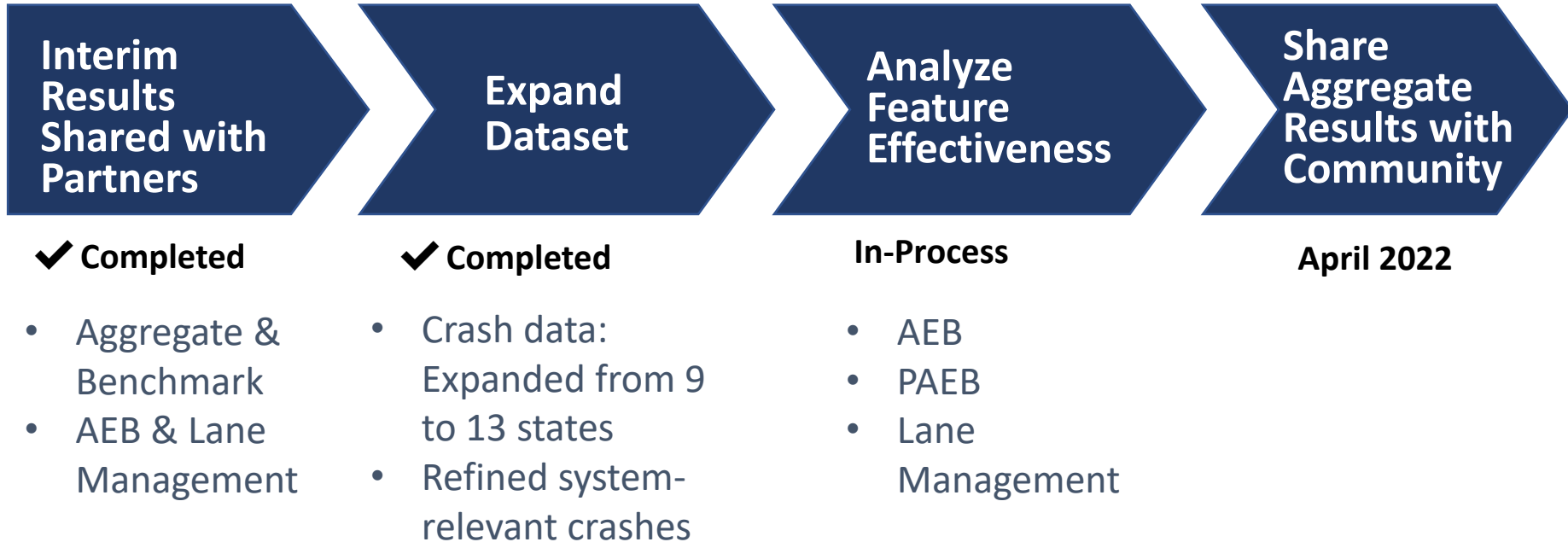
BSW penetration increased from 29% to 62% over 6 years for vehicles in the PARTS study set



Reflections

- **Significant growth in ADAS demonstrates industry's voluntary and proactive commitment to safety**
- **Even with these strides, we recognize the continued need to learn and improve at a time when annual fatalities are increasing**
- **This public-private partnership is unique, evolving, and enables innovative approaches for collaborating on safety**
- **With market penetration rising, we need to better understand, *Are these features effective in real-world conditions?***

Coming Soon! ADAS Effectiveness Results



For More Information on PARTS

PARTS

Partnership for
Analytics Research in
Traffic Safety

Website: [NHTSA.gov/PARTS](https://www.nhtsa.gov/PARTS)

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