

Caltrans Connected and Automated Vehicle (CAV) Strategic Plan

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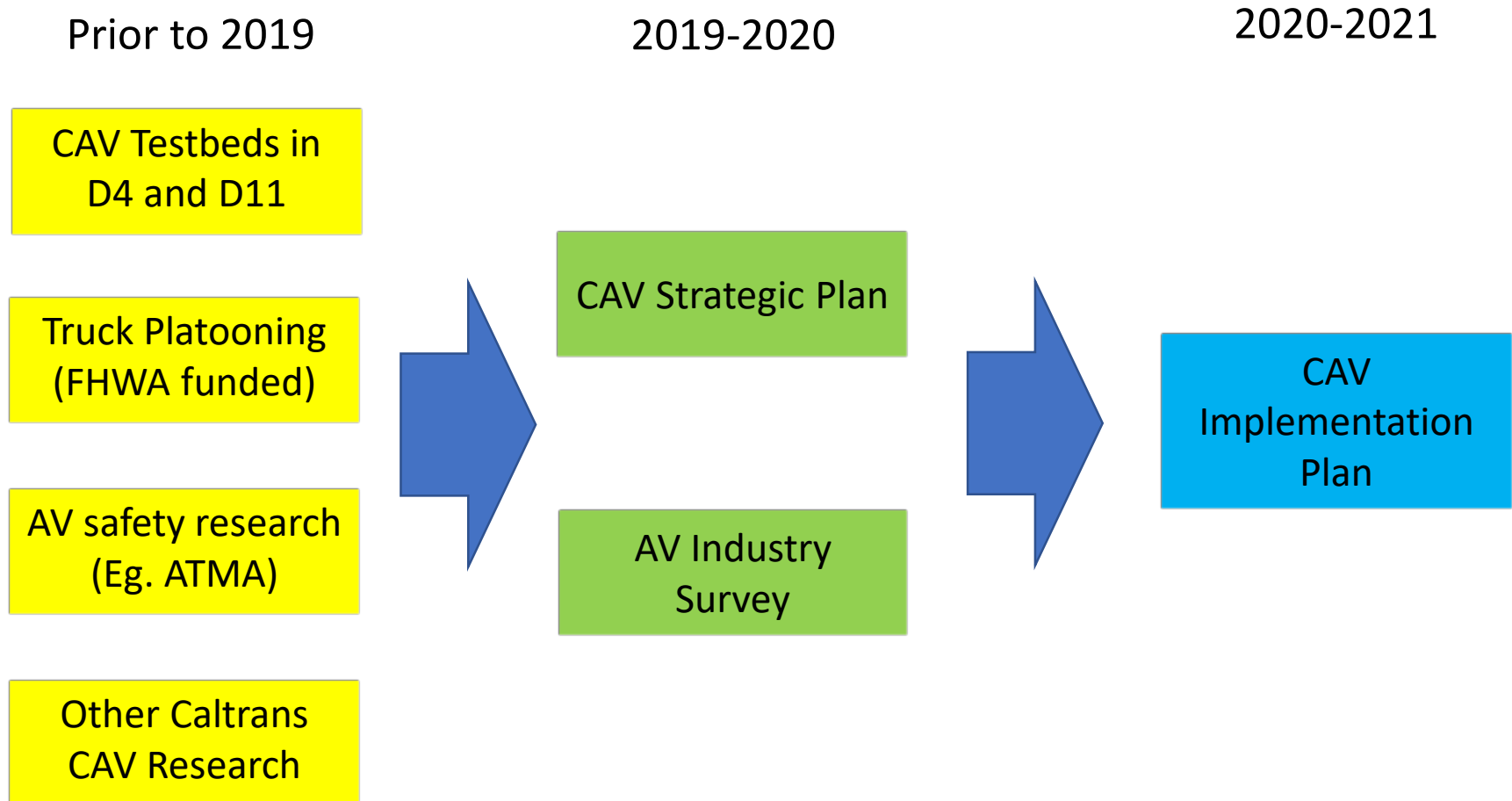
Background

2

- The prevalence of connected and automated vehicles (CAV) is accelerating
- CAV will have a profound impact on transportation safety and operations
- California has a unique opportunity:
 - Bay Area has the highest concentration of automated vehicle R&D companies in U.S.
 - These companies are producing prototypes and testing them on CA roads today
 - CA needs to prepare for CAV deployment and accelerate its leadership and outreach in this field

Ongoing Caltrans CAV Activities

3



Project Goal

4

- Develop a CAV Strategic Plan for Caltrans
 - Define a vision and strategy for Caltrans leadership in preparation for CAV deployment
 - Initiate a CAV policy development process
 - Gather input from a broad cross-section of Caltrans, DMV and CalSTA through in-person meetings and stakeholder workshops
 - Develop CAV action plan that defines specific activities for Caltrans to undertake in the coming years
 - Keep California at the forefront of this emerging industry

Highlights from CAV Action Plan

5

Category	Caltrans Priorities Alignment	CAV Activities	Timeframe
Organizational	Partnerships	<p>Investigate Need for CAV Executive Committee</p> <p>Establish Internal CAV Working Group</p> <p>Establish Internal CAV Outreach Program</p> <p>Investigate CAV workforce needs</p>	<p>Near-term</p> <p>Near-term</p> <p>Near-term</p> <p>Medium-term</p>
Planning	Innovation	<p>Develop CAV Implementation Plan (ongoing, funded by Ops)</p> <p>Conduct Risk Assessment of CAV Deployment Scenarios</p>	<p>Near-term</p> <p>Near-term</p>
Pilots and Testing	Safety	CAV Pilots for work zones, transit, managed lanes, etc.	Medium-term
Deployment	Innovation and Efficiency	<p>Clear and conspicuous pavement markings</p> <p>New design standards</p> <p>Install and maintain CV equipment</p>	<p>Near-term</p> <p>Near-term</p> <p>Medium-term</p>
Outreach and Partnerships	Partnerships	Participate in federal CAV stakeholder groups and peer exchanges	Near-term
Policy	Safety	Work with CalSTA to identify gaps in laws, regulations, policies and practices related to CAV	Near-term

Note: near-term is 0-2 years, med-term is 3-5 years

Next Steps

6

- Continued Executive Management support
- Build on momentum that has been established with Caltrans staff
- Determine process for committee structure
 - Implementation of the CAV Action Plan
 - Broader outreach to department staff
- Publish the Caltrans CAV Strategic Plan
 - Review and concurrence by CalSTA Secretary and staff