

# AUTONOMOUS VEHICLE UPDATE

Smart Cities and Service Improvements Committee

Jill North Mariani

Department of Transportation

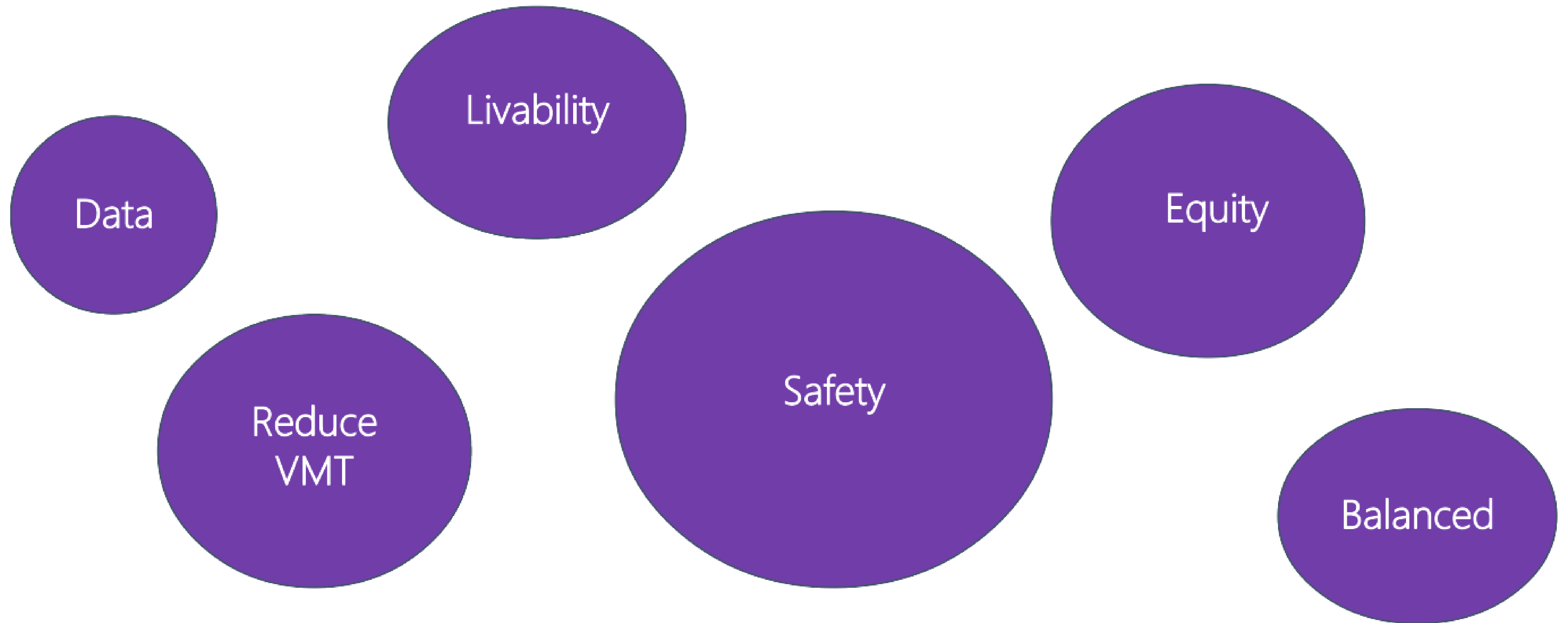
September 3, 2020



# **Autonomous Vehicle Status Report**

- **California AV Regulations and Activity Update**
- **Mercedes Benz, Bosch, Daimler Pilot**
- **AutoX Pilot Status**
- **COVID-19 Impact**
- **Next steps**

# Guiding Principles



# DMV Versus CPUC Permits

- DMV permits vehicles to operate within the public domain
- CPUC permits for the vehicle to carry passengers

DMV Permit		CPUC Pilot Program Permit Holders	
<u>Type of Permit</u>	<u># Issued</u>	Zoox	Waymo
Testing with Driver	66	AutoX	Aurora Innovation
Driverless Testing	3	Pony.ai	Cruise
AV Deployment	0	Voyage Auto	

# AV Activity: 2017, 2018, 2019

## California AV Activity

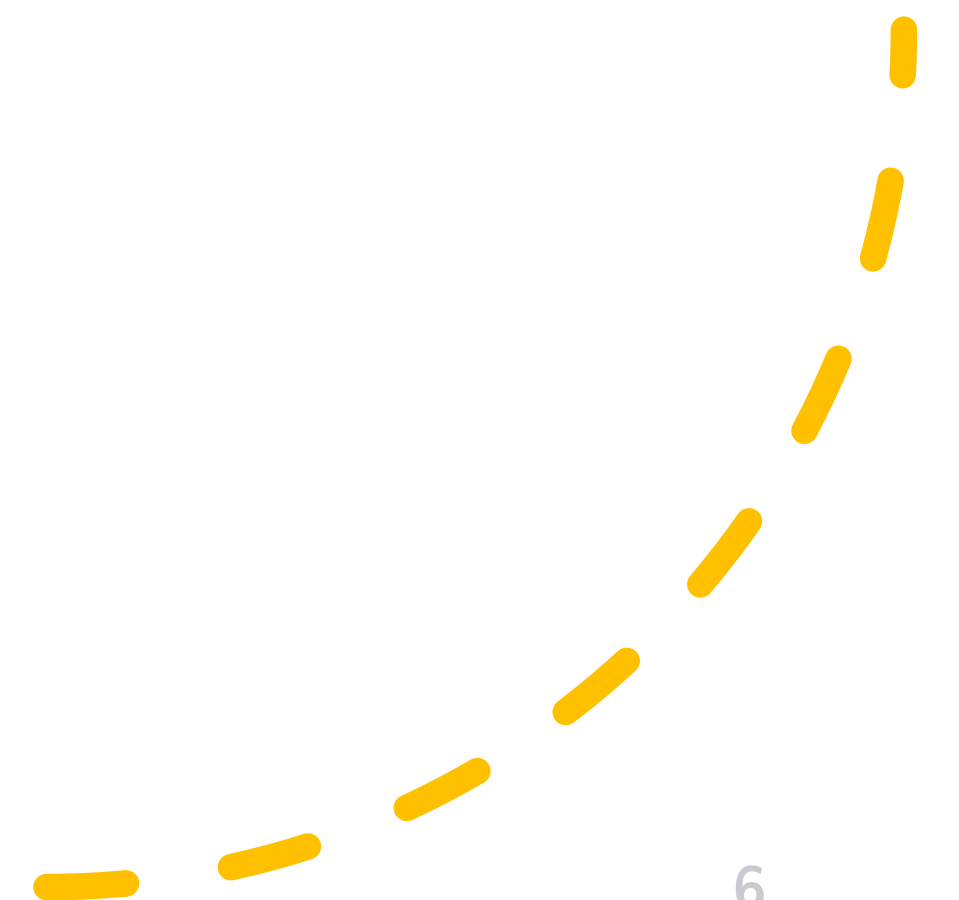
Year	# of Companies	Total Miles	Total Vehicles Driven Public Roadways
2017	25	578,006	254
2018	29	1,880,300	383
2019	33	2,875,695	570



## Highly Active AV Companies

- Aurora Innovation
- Baidu
- DiDi Research
- Mercedes Benz
- Waymo

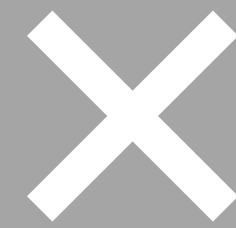
- AutoX
- Cruise
- Lyft
- Pony.ai
- Zoox



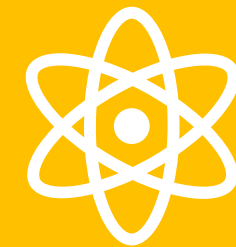
# Mercedes Benz, Bosch, and Daimler Pilot



Phase 1 of intended 3 Phase project



Level 4 test from Diridon Station to  
Santana Row



Testing Period: November 2019 – March  
2020



Phase 1 Testing focused on app  
integration with extremely limited  
participant pool





# Community Engagement

## Community Engagement

- Community Meetings
- Law Enforcement Interaction Plan and Engagement
- Federation of the Blind







# Insights and Update

- Ride Hailing App and Alpha Fleet Integration
- Vision Zero Mid-Block Pedestrian Study
- COVID 19 Delays Phase 2 commencement



# AutoX Pilot and Update

- Replicates discontinued DASH route service
- Level 4 test from Diridon Station to San Jose State University
- Original Testing Commencement: May 2020, delayed due to COVID
- July 2020 Awarded DMV Driverless Testing Permit





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**AV industry paused with the uncertainty with COVID-19**

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**Anticipate more acquisitions and consolidation**

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**DOT remains committed to existing partnerships and ongoing efforts**

## Road Ahead



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