



Autonomous Vehicles in California

Andrew Conway
California DMV

California Legislation – Senate Bill 1298

As soon as practicable, but no later than Jan. 1, 2015, DMV must adopt regulations setting forth requirements for:

- Manufacturers' *testing* of autonomous vehicles on public roadways
- *Operation* of autonomous vehicles on public roadways

Autonomous Vehicle

An autonomous vehicle does not include a vehicle that is equipped with one or more collision avoidance systems, including, but not limited to, electronic blind spot assistance, automated emergency braking systems, park assist, adaptive cruise control, lane keep assist, lane departure warning, traffic safety or provide driver assistance, but are not capable, collectively or singularly, of driving the vehicle without the active control or monitoring of a human operator.

California Vehicle Code Sec. 38750(a)(2)(B)

Statewide Steering Committee



Regulatory Package 1: Manufacturers' Testing

- Two pre-notice workshops
- 45-day public comment period
- Formal public hearing
- 15-day public comment period
- Regulations approved and adopted in May 2014
- Effective on September 16, 2014

Testing Regulations Summary

- \$5 million in insurance, bond, or self-insurance
- Test drivers: no DUI, not an at-fault driver, and no more than 1 point
- Successful completion of test driver training program
- Employee, contractor, or designee
- Seated in driver seat during testing
- Report any accident within 10 days
- Report unanticipated disengagement of autonomous technology
- Testing permit valid for one year
- Vehicles excluded from testing:
 - Commercial vehicles
 - > 10,000 lbs GVW
 - Motorcycles

Approved Testing Permits



Mercedes-Benz



TESLA MOTORS



BOSCH
Invented for life



Regulatory Package 2: Operation on California Public Roadways

- Contract with UC Berkeley for recommendations
- March 11 pre-notice workshop
- 45-day public comment period
- Formal public hearing

- Assignment of violations
- Definition of operator
- Operational and deployment restrictions
- Operator license requirements

Operational Regulations Summary (Draft)

- Specify if vehicle is capable of operating without a driver inside
- Disclose the designed areas of operation
- Submission of data from testing program
- Functional safety
- Sensor data recorded 30 sec prior to collision
- Disclosure to occupants that data not necessary for safe operation of vehicle is being collected
- \$5 million in bond, or self-insurance
- NHTSA Level 4 vehicles issued distinct special license plate
- No special driver license requirement

Outreach Efforts



Questions

andrew.conway@dmv.ca.gov
(916) 657-6259