

SAE J3016[™] LEVELS OF DRIVING AUTOMATION



Notes:

- Level 1 and 2 driving automation features are called Advanced Driver Assistance Systems or "ADAS" and are designed to support human drivers.
- Many cars on the market today have Level 1 and Level 2 automation features; some enhance safety; many enhance driver convenience.
- Cruise, Waymo and Zoox vehicles on San Francisco streets are operated by an Automated Driving System (ADS) and strive for Level 4 driving automation.
- There are *NO cars on the market for purchase today* that can be operated without continuous human driver attention and supervision.
- In the future, vehicles with a Level 4 Automated Driving System may retain or eliminate human controls.
- Most industry observers believe that Level 5 driving automation is decades away; thus, its description above reflects a concept or goal.



