

Levels of vehicle automation

WITH DRIVER	<div>SAE level 1</div> <div>Driver assistance</div>	<p>The system can control either steering or acceleration/braking, but not both at the same time.</p> <p><i>Example: adaptive cruise control or lane-keeping assist. Only one of the two functions.</i></p>	
	<div>SAE level 2</div> <div>Partial automation</div>	<p>The system can control both steering and acceleration/braking, but the driver must supervise and be ready to intervene.</p> <p><i>Example: adaptive cruise control combined with lane-keeping assist. Both functions.</i></p>	
	<div>SAE level 3</div> <div>Conditional automation</div>	<p>The system can perform all driving tasks unsupervised in certain conditions, but the driver must be ready to take control if necessary.</p> <p><i>Example: Mercedes-Benz Drive Pilot. On a clear day on a motorway the car drives itself, but if the weather worsens it alerts the driver to take over safely.</i></p>	
WITHOUT DRIVER	<div>SAE level 4</div> <div>High automation</div>	<p>The system can perform all driving tasks without human input in most conditions, but with limitations.</p> <p><i>Example: Waymo's (Google) robotaxi in a mapped city. The car drives you to your destination without intervention but cannot leave that area.</i></p>	
	<div>SAE level 5</div> <div>Full automation</div>	<p>The system can perform all driving tasks without human input in every scenario.</p> <p><i>Example: a vehicle that drives you along motorways, city streets and rural roads, regardless of rain, snow or low visibility.</i></p>	

The driver is driving. The car is driving.