

LEVELS OF DRIVING AUTOMATION

	SAE LEVEL	NAME / DEFINITION	STEERING, ACCELERATION, DECELERATION	MONITORING DRIVING ENVIRONMENT	FALLBACK PERFORMANCE OF DYNAMIC DRIVING TASK	SYSTEM CAPABILITY (DRIVING MODES)	TIME - FRAME
Human Monitors Environment	0	No Automation the full-time performance by the human driver of all aspects of the dynamic driving task, even when enhanced by warning or intervention systems				N/A	NOW
	1	Driver Assistance the driving mode-specific execution by a driver assistance system of either steering or acceleration / deceleration using information about the driving environment and with the expectation that the human driver perform all remaining aspects of the dynamic driving task				Some Driving Modes	NOW
	2	Partial Automation the driving mode-specific execution by one or more driver assistance systems of both steering and acceleration / deceleration using information about the driving environment and with the expectation that the human driver perform all remaining aspects of the dynamic driving task				Some Driving Modes	2013+
Car Monitors Environment	3	Conditional Automation the driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task, with the expectation that the human driver will respond appropriately to a request to intervene				Some Driving Modes	2020+
	4	High Automation the driving mode-specific performance by an automated driving system of all aspects of the dynamic driving task, even if a human driver does not respond appropriately to a request to intervene				Some Driving Modes	2020+?
	5	Full Automation the full-time performance by an automated driving system of all aspects of the dynamic driving task under all roadway and environmental conditions that can be managed by a human driver				All Driving Modes	2025+?

Source: Adapted from Society of Automotive Engineers (SAE) Standard J3016, SAE International 2014