

Levels of Automation, Based on the Society of Automotive Engineers

	Description	Who decides to steer, accelerate, decelerate?	Who monitors the driving environment?
Level 0: No Automation	Human drives full time, handles all aspects of dynamic driving decisions	Human	Human
Level 1: Driver Assistance	Under human supervision, system executes portions of the dynamic driving tasks	Human and System	Human
Level 2: Partial Automation	Under human supervision, system executes accelerating, braking, and steering when activated	System	Human
Level 3: Conditional Automation	Autonomous system can only be activated under conditions for which it was designed; requires a delay to transfer control back to human	System	System
Level 4: High Automation	Human driver is not necessary when system is engaged; system capable of all dynamic driving tasks	System	System
Level 5: Full Automation	System capable of unconditional full-time execution of all dynamic driving tasks	System	System