

5 LEVELS OF AUTONOMOUS DRIVING



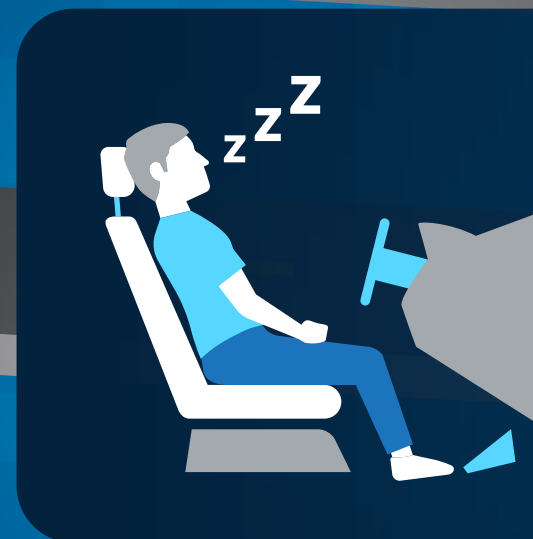
FULL AUTOMATION

Vehicles use a fully automated system that can handle even the most difficult conditions without any human intervention.



HIGH AUTOMATION

Car has the ability to drive in nearly any situation without human input. Cars at this level can be programmed not to drive in severe weather conditions. Google's self-driving cars have been test-driving at this level.



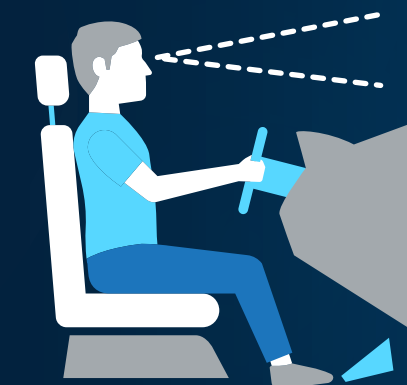
CONDITIONAL AUTOMATION

Car can drive under most conditions, even performing tasks like changing lanes, but can also ask the driver to take control as needed. The driver may also choose to intervene at any time, but is not required to monitor the environment in the same way that they would in the earlier three phases.



PARTIAL AUTOMATION

Human driver is still responsible for primary tasks, but the assistance system in the car can help with some elements of the driving experience, like acceleration or deceleration, by using information detected about the driving environment. A driver is still required to be ready and able to take control at any point.



DRIVER ASSISTANCE

Small and specific functions, like steering, can be done automatically by the car, but all other functions are under human control.

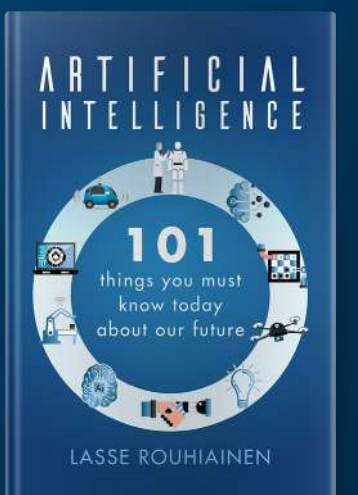


NO AUTOMATION

Human driver maintains 100 percent control, performing all tasks, even when receiving warnings from car systems.



AUTHOR: LASSE ROUHIAINEN
WWW.LASSEROUHIAINEN.COM
@LASSEWEB20



SOURCE: SAE INTERNATIONAL