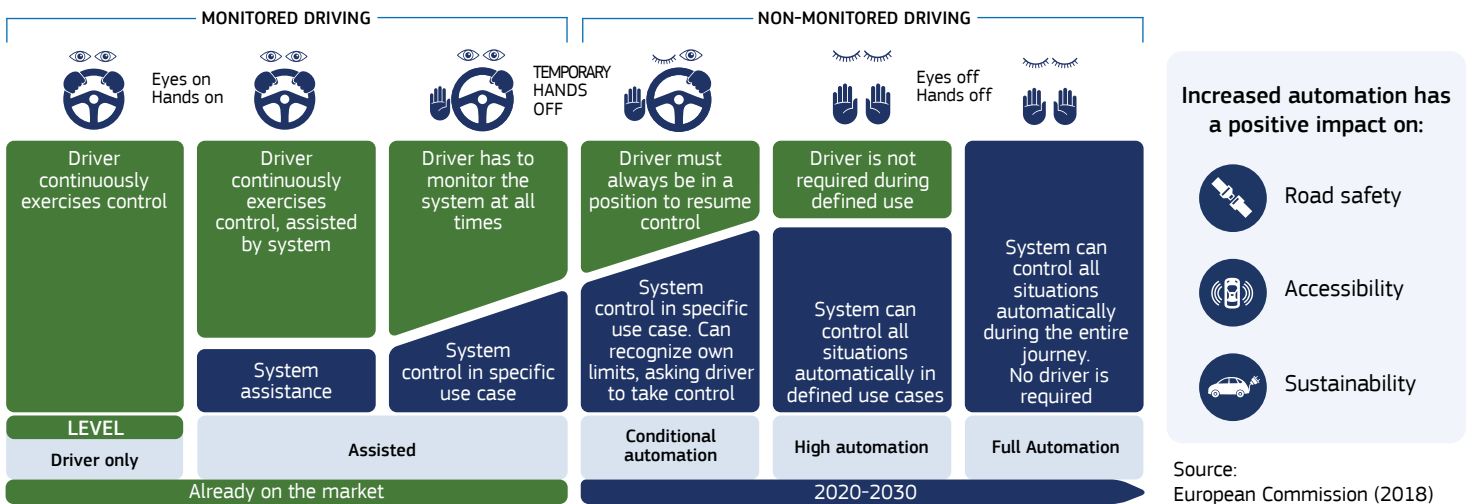


Internet of Things in connected and autonomous vehicles can support safer, more accessible and sustainable transportation

Product Watch: IoT Components in Connected and Autonomous Vehicles

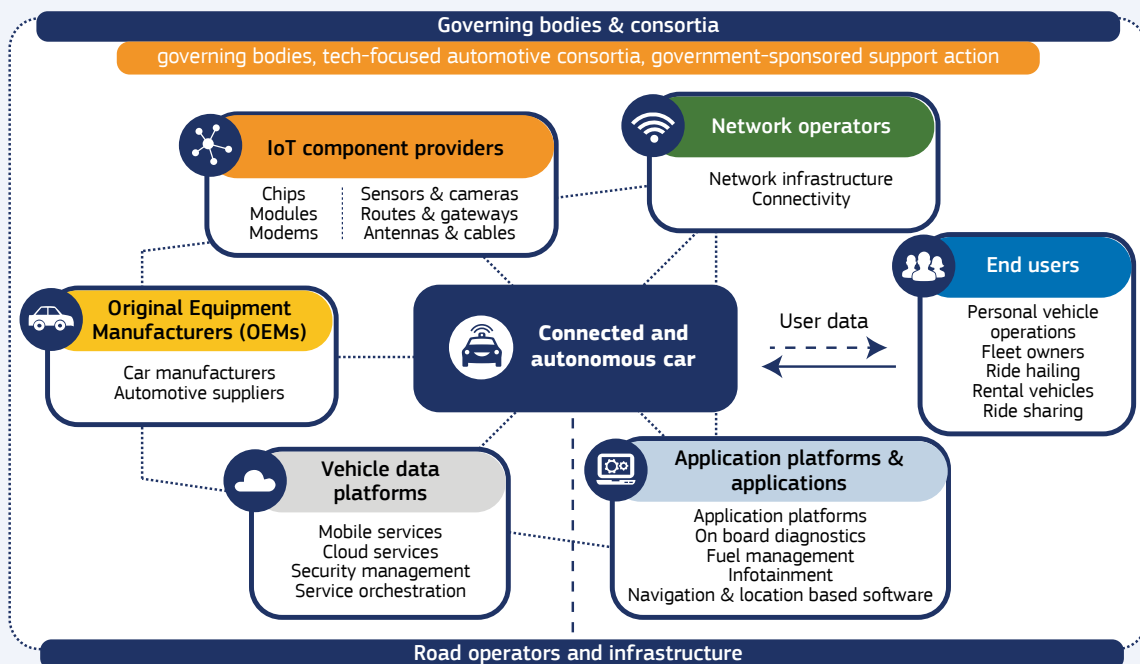
The European automotive industry is facing a digital revolution in the 21st century in the form of the connected and autonomous vehicle. With the integration of **Internet of Things (IoT)** components into vehicles, they become part of a **network**, enabling them to communicate with each other, with the surrounding infrastructure and with other drivers.

Different levels of automation



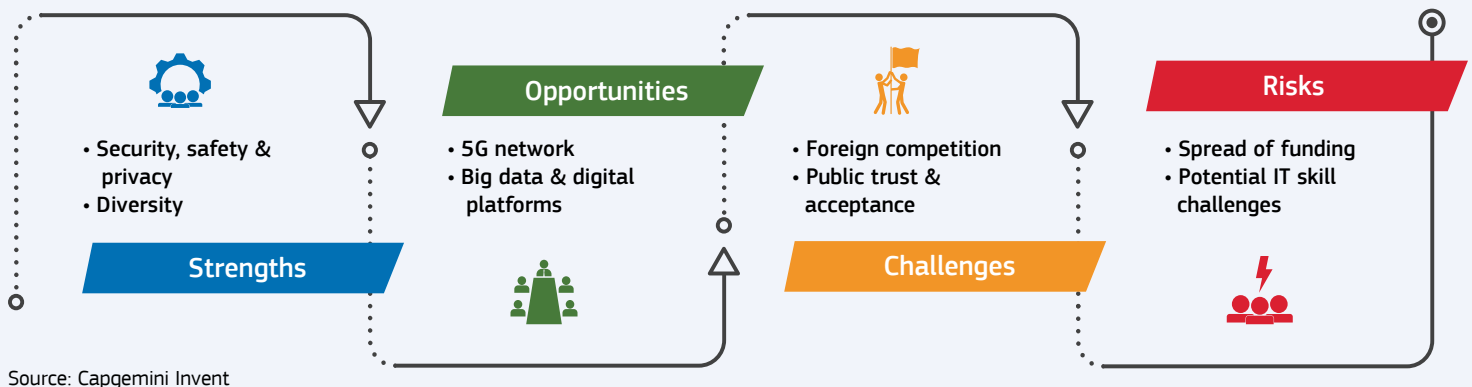
Mapping the value chain for connected and autonomous vehicles showcases its importance in the European automotive industry

High-level connected and autonomous vehicle value chain for the EU



Source: Capgemini Invent

The EU's competitive position is particularly strong because of its focus on safety and diversity in its offerings



The rise of connected and autonomous vehicles raises concerns to be addressed in the fields of security, reliability and environmental impact



Cybersecurity, liability, software and hardware reliability and data privacy



From a **safety** point of view, autonomous vehicles lack human abilities to pick up on subtle signs of other road users



To fairly measure the **environmental impact**, the complete lifecycle must be taken into account instead of solely fuel consumption

About the Advanced Technologies for Industry (ATI) project

The ATI project – funded by the European Commission – supports the **implementation** of Europe's new growth strategy with a systematic monitoring of **technological trends** and reliable, **up-to-date data** on advanced technologies.



The **Product Watch** analyses novel products that are based on advanced technologies for the development of goods and services – enhancing their overall commercial and social value. It supports cluster organisations and S3 partnerships, providing intelligence on innovation areas where European regions could team up and invest together.

For more information, read the full Product Watch on IoT in connected and autonomous vehicles:
<https://ati.ec.europa.eu/reports/product-watch/iot-components-connected-and-autonomous-vehicles>