

# AUTOMOTIVE

The traditional automotive industry is being disrupted by 4 TRENDS that make the need for business transformation every more urgent.

## 01 AUTONOMOUS VEHICLES

Level 3 vehicles, which are capable of performing most driving tasks with human override required, are expected to account for the majority of the market in 2030

LEVEL 1 Driver Assistance 15%  
LEVEL 2 Partially Automated 25%  
LEVEL 3 Conditionally Automated 41%  
LEVEL 4 Fully Automated 19%



## 02 CONNECTIVITY

Already cars have more than 100 Electronic Control Units (ECUs). By 2028, most will be connected to 5G mobile networks, opening up new applications in infotainment, telematics and V2X.

+100  
ECUs

## 03 ELECTRIFICATION

The tipping point for Electric Vehicles (EVs) is near with price parity expected to be achieved before 2029.



## 04 SHARED OWNERSHIP

In 2025, 25m consumers will share rather than own outright a vehicle. The rise of autonomous vehicles and smart infrastructure will accelerate the car sharing trend.

25  
million  
in 2025

## AREAS WHERE NTT DATA CAN HELP

### AUTOMOTIVE GETS SMARTER —

AI will transform many aspects of vehicle manufacturing including R&D, project management and business support functions, but especially in the core manufacturing processes, where islands of automation will give way to highly flexible and networked automation solutions.



### MAKE VALUE CHAINS MORE RESPONSIVE —

The integration of IT and OT enables automotive companies to create a common environment for managing all aspects of the business, both for OEMs and for Tier 1 suppliers, which must manage an increasingly complex network of sub-suppliers.



### IMPROVE CUSTOMER RELATIONSHIPS —

OEMs, national sales centers and dealers need to offer superior customer service via virtual channels and unique digital experiences that ensure “stickiness” while reducing the costs and inconvenience traditionally associated with the physical dealer network.



### ADD VALUE THROUGH CONNECTIVITY —

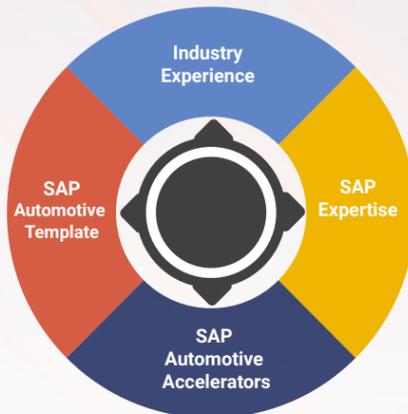
Car makers need to create a fully integrated and personalized connected vehicle experience if they are to take full advantage of the possibilities offered by tomorrow’s 5G mobile networks and trends such as autonomous vehicles, electrification and shared mobility.



## WHY CHOOSE NTT DATA FOR YOUR SAP AUTOMOTIVE PROJECT

- Fully customized SAP S/4HANA system, including all core areas such as finance, procurement, sales, logistics, production.
- Includes new SAP modules such as eWM, IBP, TM, VMS etc.
- SAP Business Technology Platform and Cloud Integration.

- SAP JIT/JIS.
- Supply Chain Control Tower.
- Edge Computing Integration via SAP Business Technology Platform.
- Smart EWM High-Bay Racks.
- Individualized Production.



- NTT DATA has been serving the automotive industry for more than 40 years.
- NTT DATA has more than 10,000 IT consultants serving 85 clients in the automotive value chain including OEMs, suppliers and dealerships.

- 29-year partnership with SAP.
- Over 5,000 active SAP clients.
- Leading SAP partner with over 300 SAP S/4HANA projects.
- Resource coverage in over 58 countries.

## NTT DATA SAP ACCELERATORS

NTT DATA has developed a range of accelerators to reduce the time to market and cost of implementing a SAP Auto solution.

### SUPPLY CHAIN CONTROL TOWER

This accelerator provides end-to-end visibility of the automotive supply chain along with a real-time integration with SAP data sources.

### EDGE COMPUTING

The Edge Computing accelerator collects data from sensors and integrates it into SAP Business Technology Platform. Data can then be aggregated and analyzed to predict future machine behavior and prevent failures.

### SMART EWM HIGH-BAY RACKS

This accelerator leverages sensor data to improve space utilization, increase inventory rotation and optimize operations in High Bay warehouses using SAP EWM.

### SAP JIS/JIT

Just In Time / Just In Sequence processes require tight cooperation between companies and suppliers. This accelerator implements the SAP JIT and JIS processes and features a custom FIORI cockpit.

### INDIVIDUALIZED PRODUCTION

To enable production lines and warehouses to effectively handle Batch Size 1 orders, this accelerator uses RFID tags on product carriers that load the ad hoc information needed for production and handling.