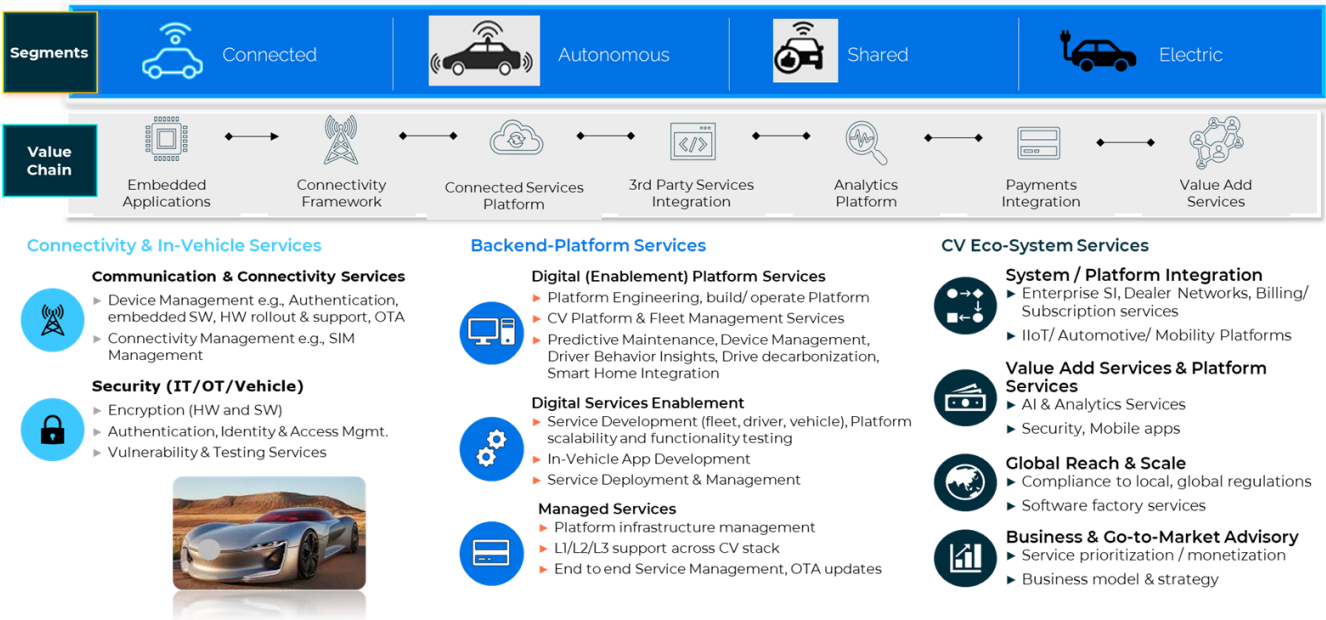# Connected Vehicles

Atos is a global leader in data-driven, trusted, and sustainable digital transformation. A next-generation digital business, Atos stems from leading positions in digital, cloud, data, advanced computing, and security worldwide.

What We Offer

A comprehensive Connected Vehicle solution for automotive manufacturers/suppliers, enabling new business models through real-time vehicle data, enhancing efficiency, safety, and customer satisfaction across four segments: Connected Vehicles, Autonomous Driving, Shared Usage, and Electrification.
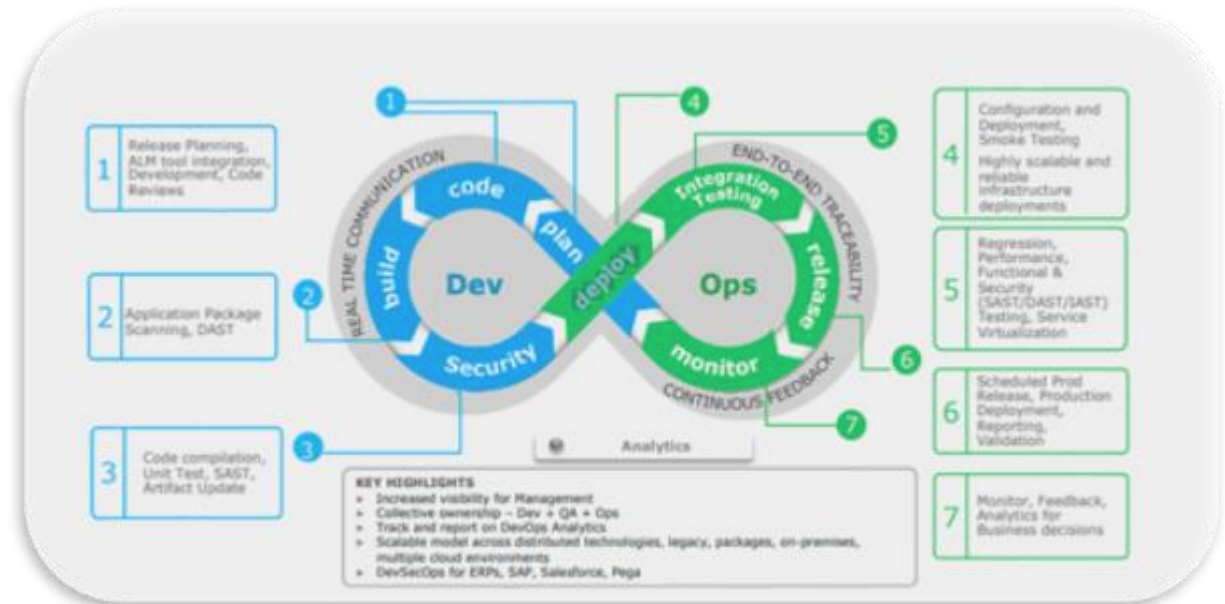

Segments: Connected | Autonomous | Shared | Electric

Value Chain: Embedded Applications → Connectivity Framework → Connected Services Platform → 3rd Party Services Integration → Analytics Platform → Payments Integration → Value Add Services

Connectivity & In-Vehicle Services

Communication & Connectivity Services
- ▶ Device Management e.g., Authentication, embedded SW, HW rollout & support, OTA
- ▶ Connectivity Management e.g., SIM Management

Security (IT/OT/Vehicle)
- ▶ Encryption (HW and SW)
- ▶ Authentication, Identity & Access Mgmt.
- ▶ Vulnerability & Testing Services

Backend-Platform Services

Digital (Enablement) Platform Services
- ▶ Platform Engineering, build/ operate Platform
- ▶ CV Platform & Fleet Management Services
- ▶ Predictive Maintenance, Device Management, Driver Behavior Insights, Drive decarbonization, Smart Home Integration

Digital Services Enablement
- ▶ Service Development (fleet, driver, vehicle), Platform scalability and functionality testing
- ▶ In-Vehicle App Development
- ▶ Service Deployment & Management

Managed Services
- ▶ Platform infrastructure management
- ▶ L1/L2/L3 support across CV stack
- ▶ End to end Service Management, OTA updates

CV Eco-System Services

System / Platform Integration
- ▶ Enterprise SI, Dealer Networks, Billing/ Subscription services
- ▶ IIoT/ Automotive/ Mobility Platforms

Value Add Services & Platform Services
- ▶ AI & Analytics Services
- ▶ Security, Mobile apps

Global Reach & Scale
- ▶ Compliance to local, global regulations
- ▶ Software factory services

Business & Go-to-Market Advisory
- ▶ Service prioritization / monetization
- ▶ Business model & strategy

Connected Vehicles Services

How it Works

- Our tailored services are structured into three areas with basic core strength in Cybersecurity and decades of experience in the automotive industry, particularly in the areas of:

- **Communication and Connectivity:** Device management, including SIM management and over-the-air software updates

- **Backend platform services:** Build and run a connected Vehicle Backend platform by leveraging and integrating best-of-the-breed off-shelf solutions tailored to customer requirements. This includes services for collecting and storing data as well as exposing data to other services using an API layer

- **Ecosystem and Business Services:** This includes system integration with Enterprise systems like ERP, CRM, PLM and MES, Automotive platforms, IOT platforms, and mobility platforms; Global and Local deployment taking into account regulatory and compliance requirements; Data Monetization and Value-Added services leveraging AI and advanced analytics -for example, Software factory, Smart parking, Usage-based Insurance; and Business and go to market advisory

Execution Strategies and Solutions

- Atos M4 connected vehicles methodology for a consultation to identify business use cases that can drive ROI for the customers

- Agile methodology for development and Implementation

- DevSecOps automation-based application development approach (if required) for Service Deployment and Management

Atos

Connected Vehicles Services

Customer Outcomes

Recurring service revenues and increased operational efficiency through remote fleet operation

Moving from reactive maintenance to predictive maintenance and optimized warranty cost to operate 24X7 using IoT and predictive analytics

Customer Success

Company: A Dutch Truck Manufacturer

Solution: Scalable Connected Truck platform on Azure with multi-OBU provider support, M2M gateway with device management capabilities, Open API layer for seamless 3rd Party integration and integration with customer legacy systems, Firmware application on TCU –development and maintenance

Outcome:

- Launching a new business model by introducing recurring service revenue streams, enhancing a one-time truck sale model

- Increased revenue through an ecosystem allowing partners, i.e., 3rd parties and clients, to be onboarded faster, thus creating new digital services revenue via subscription management

- Increase customer loyalty through a set of reliable, robust, and flexible digital services

- New revenue stream creation through monetization of data consumption using the standard FMS

Company: A Large US Truck Manufacturer

Solution: Next-Generation Telematics Platform for Predictive Maintenance

Outcome:

- Reduce unplanned vehicle downtime by 30 percent.

- Reduces downtime, improves vehicle efficiency, and prevents unnecessary carbon emissions associated with emergency repairs

- Reducing emissions by identifying vehicle potential issues before they become significant problems to operate more efficiently and fuel-efficiently

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AtoS