

# Connected Mobility

The disruptive breakthrough technologies of connected, autonomous and electrification are driving the mobility ecosystem towards the next big transformation. OEMs are moving towards adopting new technologies to drive exponential growth opportunities. The data harvested from the sensors in these new generation mobility devices provides a lot of insights to the users and OEM. However, OEMs are facing challenges in monetizing this data in the right way.

Our deep technology expertise in emerging areas, our world class partner ecosystem and our cross-industry knowledge uniquely position HCLTech as the strategic partner to OEMs on their journey towards next-generation mobility and its new business models. HCLTech offers differentiated and compelling services on connected mobility that enable OEMs move one step closer towards a common data platform.



# DRIVE

DRIVE (Digital ready for in-vehicle and ecosystem transformation) is HCLTech software led solutions, services and capabilities portfolio to accelerate/ augment the Offhighway industry to autonomous, connected, electric and shared mobility for safer, cleaner and sustainable environment



## OTA

Future ready single OTA platform to upgrade vehicles and a Curated solution for multi-vendor / partners scenario's

## Digital key

Hyper personalization on ease of access, parking and sharing experience & vehicle location tracking & ease of digital transfer

## Monetize

End-to-End platform for monetization backed by AI/ML support for data-based incentives

## V2X

Innovative monetization and differentiated experience for users with increased safety on Autonomous / ADAS system

## Fleet

Speed-To-Market as-a-service with flexibility for newer business solution but robust digital backbone

## Test

A comprehensive Test Automation solution for end-to-end testing of Digital cockpit and experience

## Digital Energy Management Platform

A cloud-based Digital platform for managing large scale battery deployments for electric machine providers. With hardware and software interface accelerators, helps in operationalizing a comprehensive energy management platform to collaborate with Battery OEM to deliver superior value to Machine & Fleet Operators.

### Features:



Driver/ Operator module



Fleet management module



Battery management module



Vehicle Telemetry module



Data Analytics engine



Performance optimizer



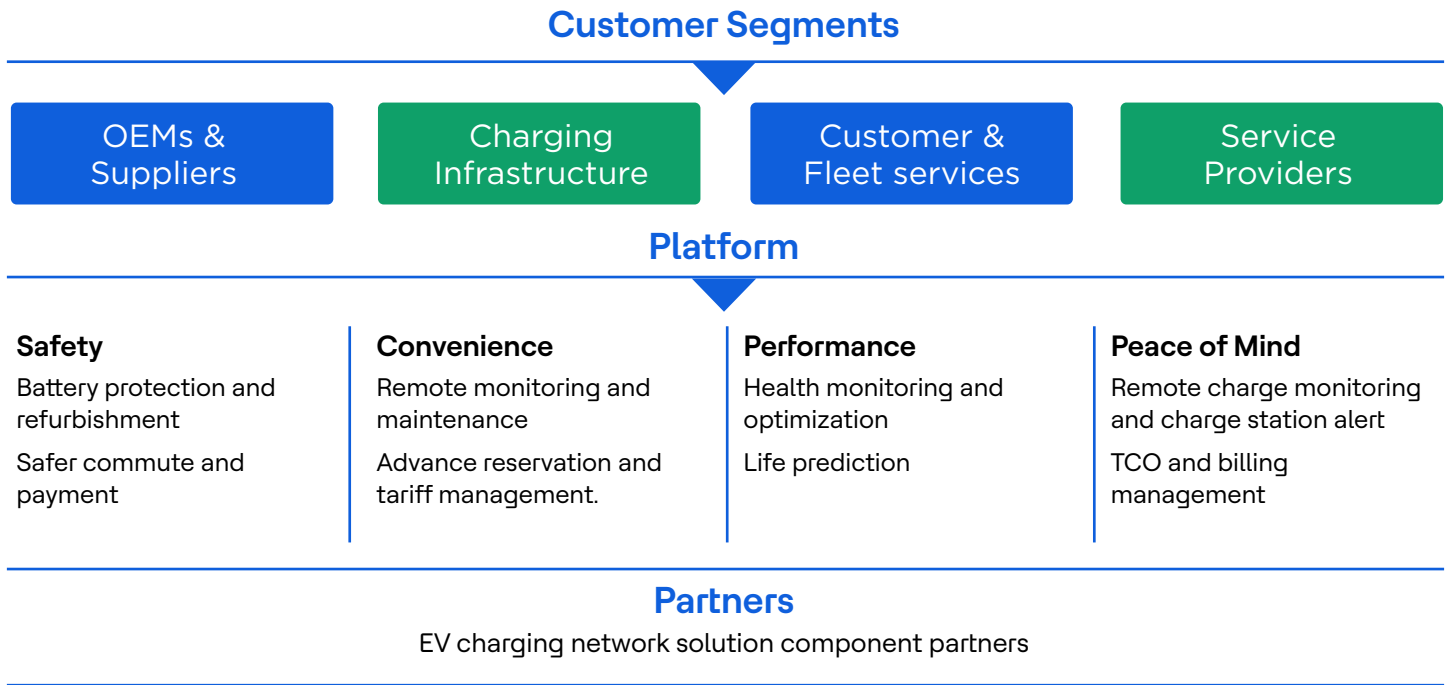
Alarms and notification manager

### Benefits:

- Enhance machine ownership experience through personalization
- Optimize operational costs and reduce TCO
- Continuous improvement of Battery management system
- Secured updates

# Electric Vehicle Service Management (EVSM)

A cloud-based, AI enabled Digital platform for large scale battery deployments for e-mobility providers and helps in operationalizing a comprehensive energy management ecosystem to collaborate with Battery OEMs to deliver superior-value to users, fleet operators and charging service provider.



## ADAS Solutions

In-vehicle software engineering solutions developed for ADAS/Autonomous vehicles for both conventional and electric machine providers. With hardware and software interface accelerators, helps in faster time to market by using the solutions already developed for OEM customers on their Autonomous journey.

### Intelligent Headlamp Controller

- Concept to production product development
- OEM interface, test driving, performance tuning,
- In-vehicle networking, Mechanical design, HW design, Algorithm Development

### Rear-View Aid System

- Camera and Ultra Sonic data integration
- BoM reduction using Sensor SoC functions, PCB & enclosure design
- Dynamic Graphics Overlay
- Multiple models, OEMs across geographies

### Lane Departure Warning

- Third Party LDW system integration, OEM interface for the production program
- In-vehicle networking, diagnostics, Test driving, enclosure design
- Vision system development to validate LDW

### Blind Spot Detection

- Side view camera-based application
- Concept to pre-production
- In-vehicle integration, Test driving to OEMs

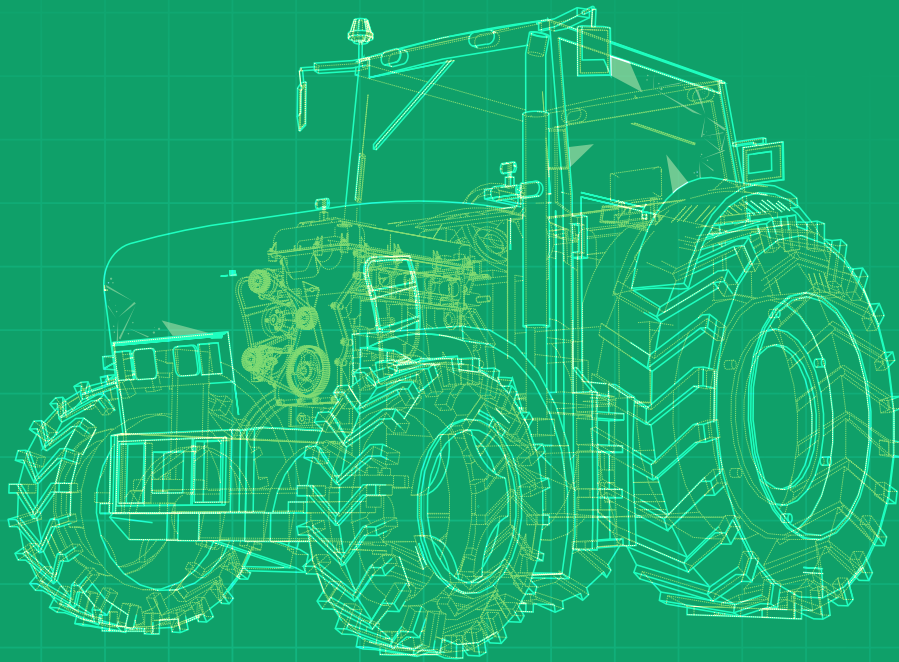
### Pedestrian Detection

- Rapid prototyping using Open CV
- Extension of training and testing for vehicle classification

### Stereo Image processing

- Porting and Optimization of stereo algorithms to FPGA SoC
- Realtime performance for Mega Pixel Resolution
- Integrated system with multiple ADAS applications

# Electrification



BMS



Charger



Motor Control



Inverter



DC-DC



HCLTech is a global technology company, home to 211,000+ people across 52 countries, delivering industry-leading capabilities centered around Digital, Engineering and Cloud powered by a broad portfolio of technology services and software. The company generated consolidated revenues of \$11.79 billion over the 12 months ended June 30, 2022. To learn how we can supercharge progress for you, visit [hcltech.com](https://hcltech.com).

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