



# EV Battery Ecosystem and BMS Software

Leverage breakthrough battery-management technologies for an efficient battery pack that improves EV performance and reliability.

Wipro's suite of electrification solutions address the full spectrum of EV manufacturer needs. From a modular and scalable battery system architecture to a Battery Management System (BMS) and complete system integration, our portfolio enables OEMs to address all phases of the product development lifecycle.

Utilizing our advanced simulation solutions, cutting-edge software control strategies and strategic partnerships through the Wipro Cloud Car ecosystem, OEMs can design a battery ecosystem that accommodates their long-range needs while meeting market demands.

The BMS solutions in Wipro's Cloud Car platform enable OEMs to achieve notable improvements in battery life, range and safety.

## Key takeaways



Improve the customer/driver experience through easy deployment to the Cloud Car environment to boost performance and range targets



Enhance battery life with highly capable battery state estimation (Charge and Health) that uses AI and ML, plus thermal management and prediction and passive cell balancing



Ensure optimal system performance with well-structured, scalable and modular software that enables data logging, fault handling and diagnostics



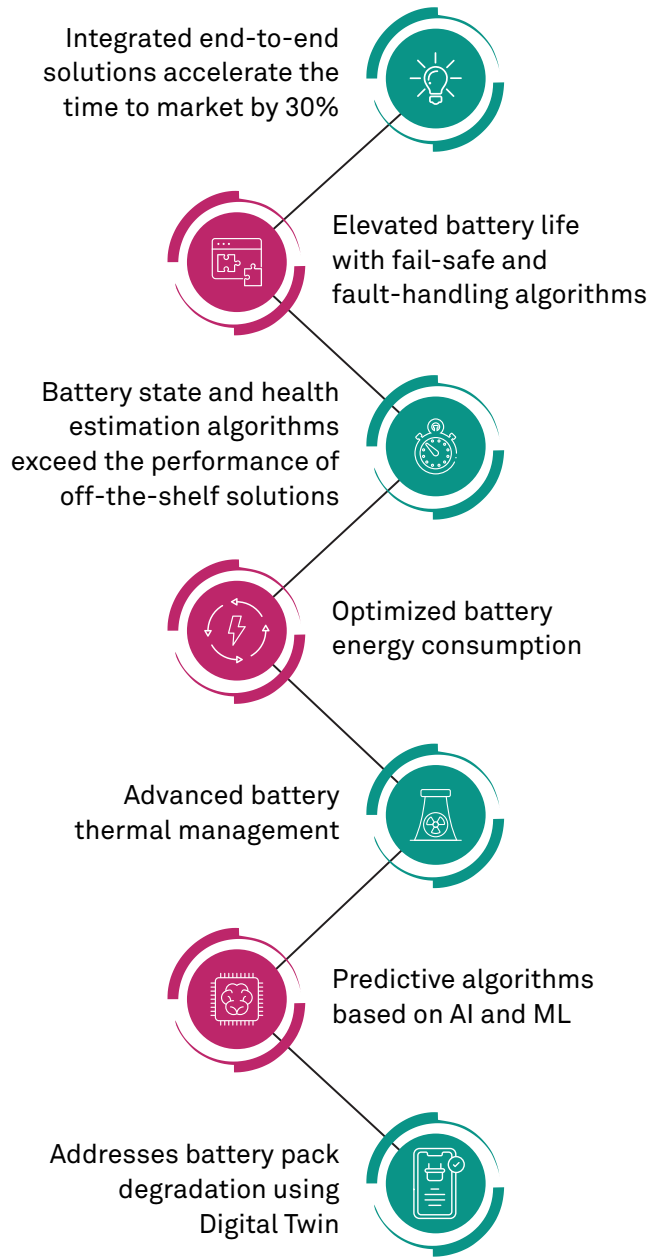
Improved computational power and data storage capability by cloud computing



Software and control logics for standard and safety compliance

# Key benefits

**Our Engineering Edge solutions offer critical benefits to OEMs and end users alike.**



Wipro offers an unmatched integration of embedded software, cloud engineering, hardware implementation, testing, verification/validation and compliance.

## Features

- Scalable and modular design
- Internet of Things (IoT) computation on Cloud for data logging and battery management
- Automotive Open System Architecture (AUTOSAR)-based software design
- Highly reliable hardware design
- System integration solutions
- Functional safety (ISO26262) compliant

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and build future-ready, sustainable businesses. With over 250,000 employees and business partners across 66 countries, we deliver on the promise of helping our customers, colleagues, and communities thrive in an ever-changing world.

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