

FUJITSU Future Mobility Accelerator MaaS Fuses Mobility and Energy Starting with EV Batteries

Advanced
Technology

Creation of energy infrastructure, a key to the spread of EVs

Creation of energy infrastructure for EV expansion We aim to be a platformer of "battery LCM (Life Cycle Management)" which connects EV battery information through primary to secondary use to its disposal. Furthermore, we will accelerate to realize an energy infrastructure that enables renewable energy to be widely used not just for EV but also for other purposes.

Service Overview

Utilizing high-dimensional statistical analysis of AI technology, we will contribute to the spread of EV by offering "Battery Profile" service which manages battery history, degradation and detect anomaly beforehand, and "Energy Consumption Map" service which estimates driving distance and reserves / navigates Evs for power supply station.



EV



Driver



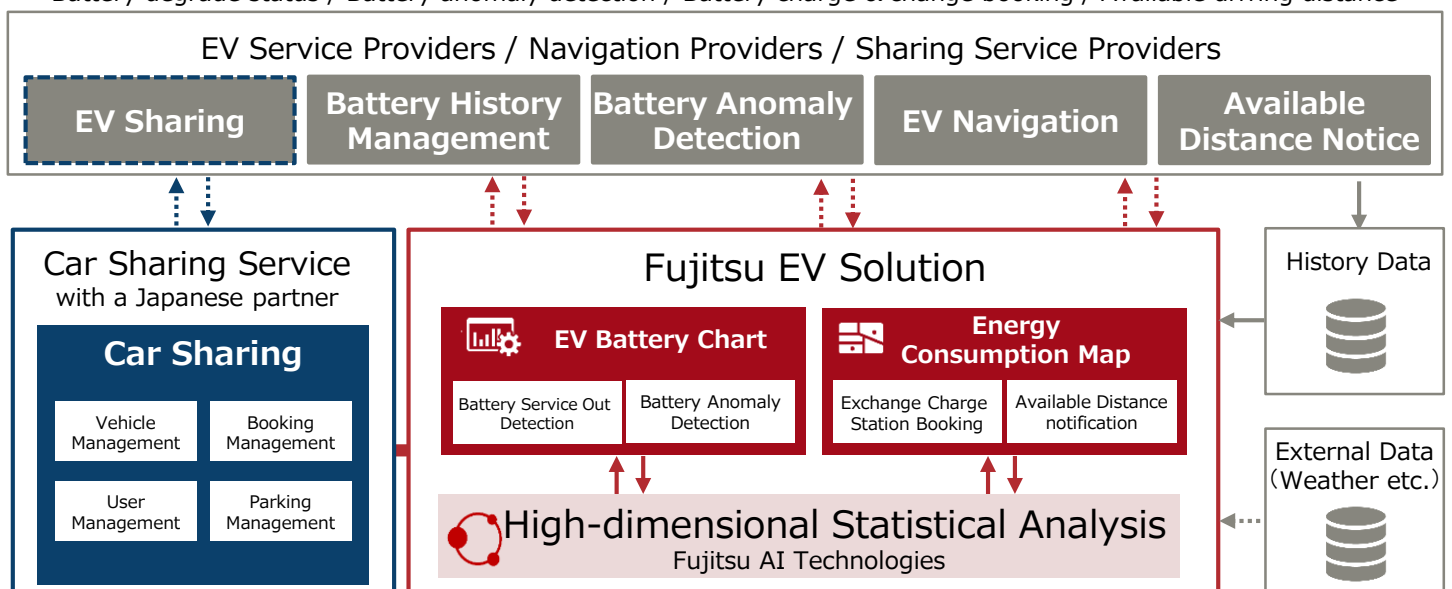
Battery Charger



Administrator

Real-time information collecting and providing

"Battery degrade status / Battery anomaly detection / Battery charge & change booking / Available driving distance"



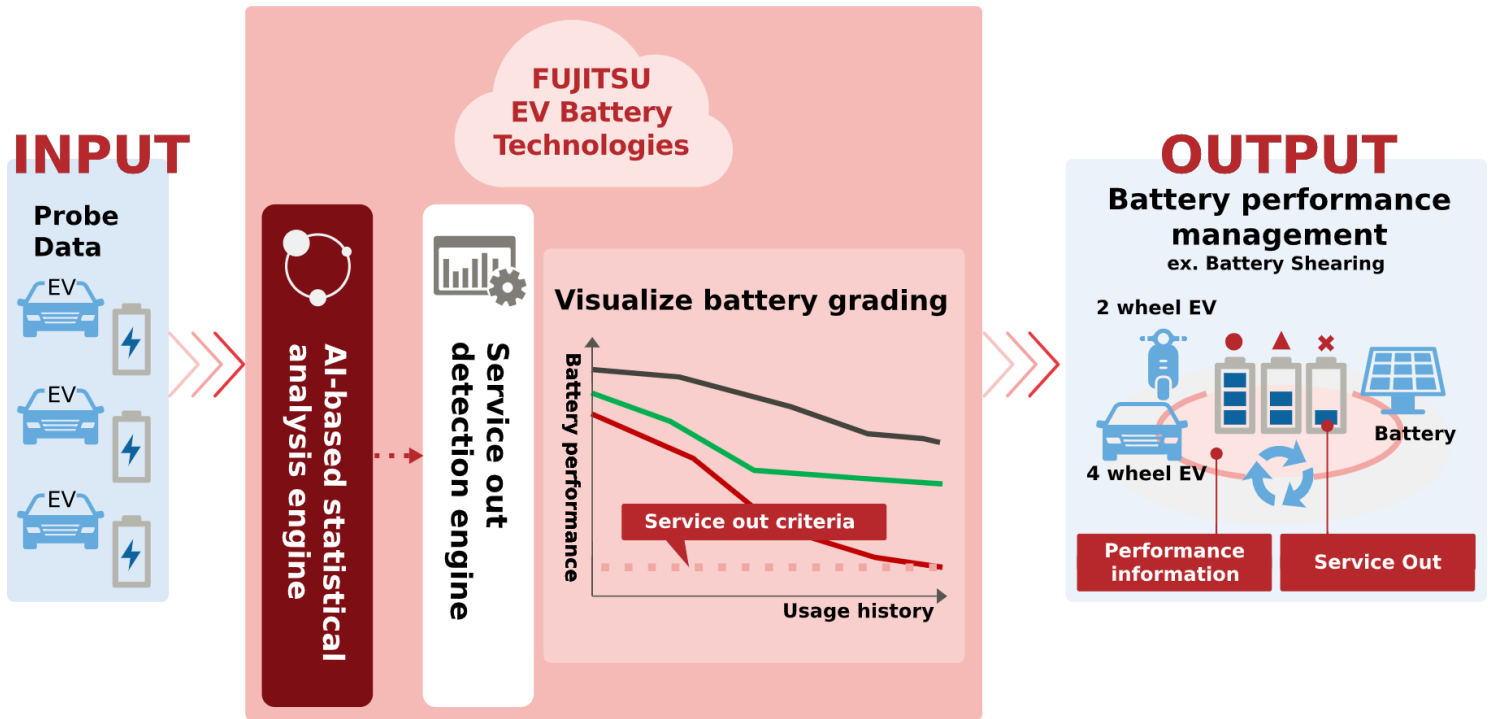
Mobility Infrastructure for EV

Customer Benefits

- Our AI technology for pre-detection of battery anomaly and degradation management achieves appropriate replacement operation of batteries
- By forecasting driving distance accurately in consideration of battery level, terrain, and road conditions, enabling stress-free driving with the reservation and the navigation of power supply station
- Providing comfortable transportation based on the EV features (Energy Consumption, Eco Driving, Charging timing) by EV sharing service

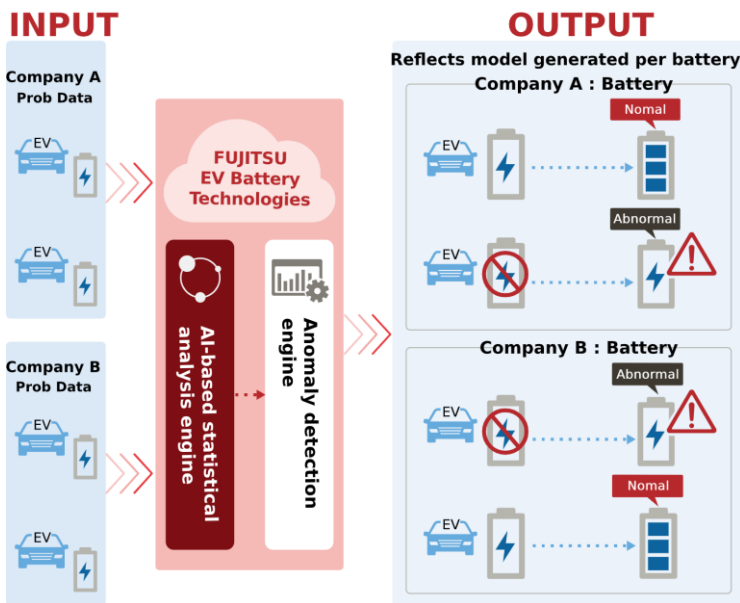
Case① Model Independent Battery Performance management

- Based on actual measurement data such as current and voltage values output from the battery, we can manage degradation of individual batteries and manage assets without loss.



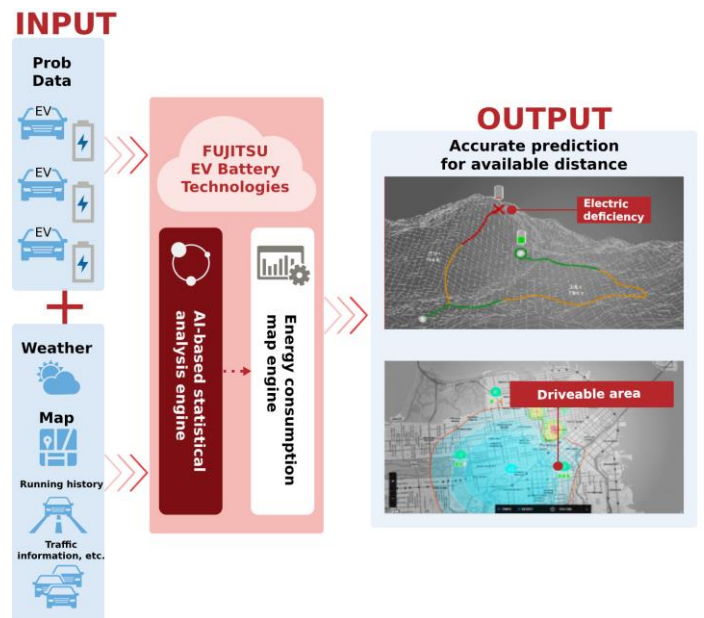
Case② Battery anomaly detection using AI Technologies

- By learning various types of actual measurement data that affect performance using high-dimensional statistical analysis technology and determining the relationships between the data, we can discover anomalies in the battery that were difficult to find in the past.



Case③ Notification of cruising range using Energy Consumption Map

- Based on the Energy Consumption Map (Electricity consumption by road) created from the accumulated actual measurement data, the accurate mileage for each vehicle is estimated, taking into account the current vehicle condition and grade information



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