

# FEV Signature Solutions

## Digital transformation with engineering analytics

### Our solutions enable faster development and fit-for-use innovative, world class solutions and components

#### FEV offers

- Innovation partner and consulting services
- Big data, advanced AI and generative AI
- Digital twin modelling and simulation
- Engineering information management
- Advanced engineering visualization

### Why FEV

- Integration of domain expertise and advanced analytics
- Cutting edged assets and accelerators
- Rapid prototyping and iterative testing to validate ideas
- Proven solutions industrialized to various applications with automated continuous optimization



Automotive



Construction / Offroad / Mining



Port / Marine



Rail



Airways

# Reference project

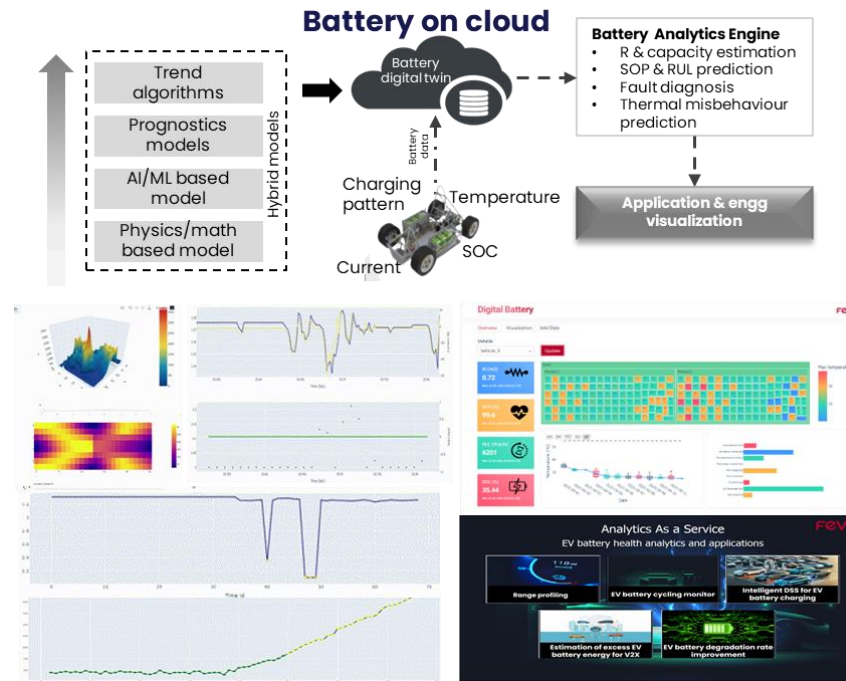
DIGITAL TRANSFORMATION WITH ENGINEERING ANALYTICS

## EV battery pack real-time digital twin on cloud for Asian automotive OEM

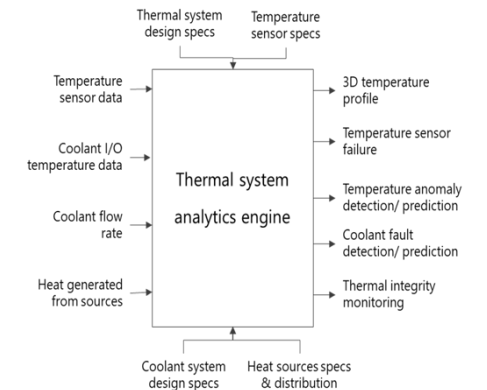
- Real-time battery performance monitoring and failure prediction for fleet of 100's of on-road vehicles
- Monitoring of key parameters, e.g., capacity, resistance
- Condition based diagnostics and prognostic, such as thermal misbehavior prediction and RUL prediction
- Customized algorithm offering for battery prediction
- Engg visualizations from pack to cell level for in-depth analysis

### FEV responsibility

- Customized algorithm offering at-par performance
- Turn-key implementation



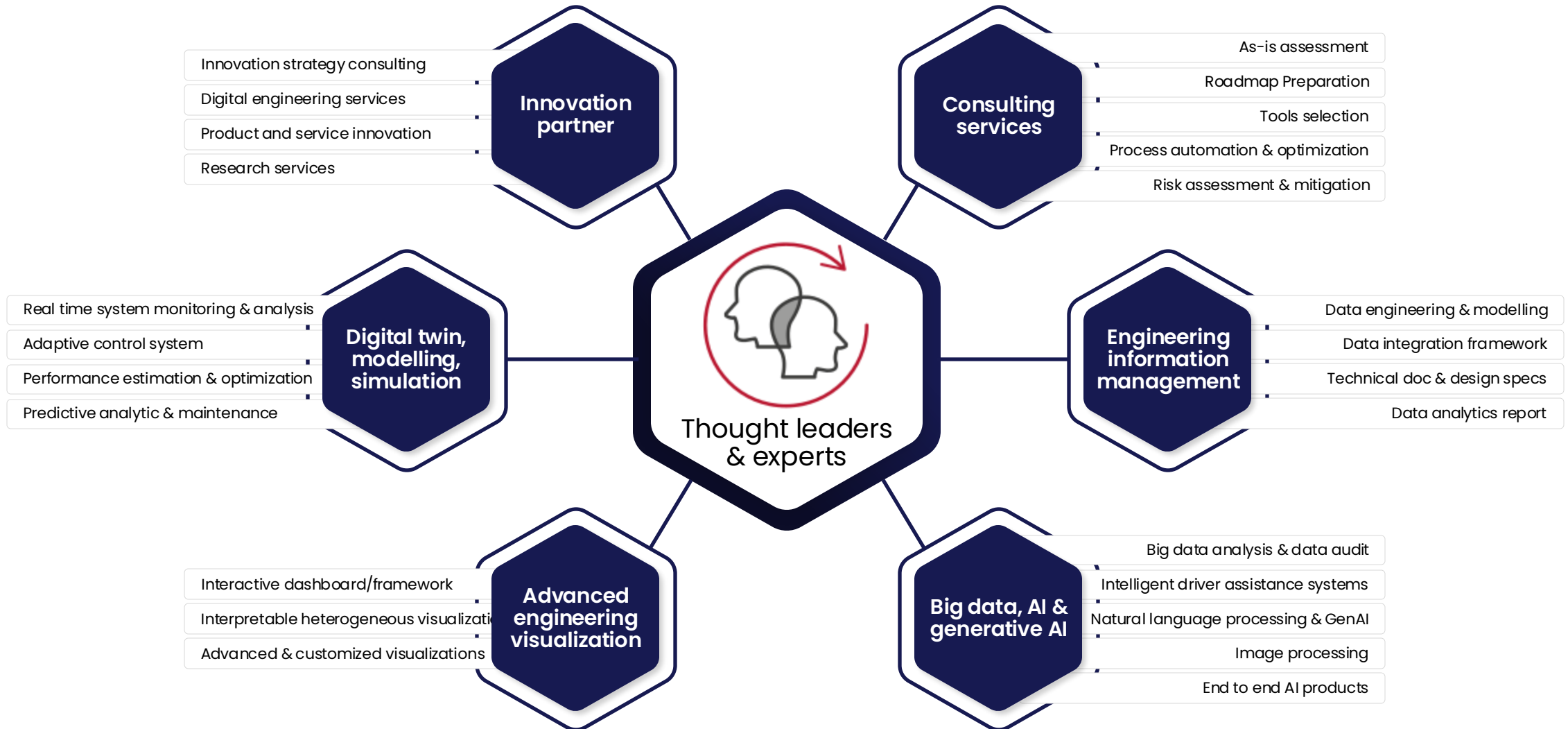
## Thermal anomaly prediction and detection



**Pending patent application**  
IN 2024 110 565 88

# Overview service offerings and specializations

## DIGITAL TRANSFORMATION WITH ENGINEERING ANALYTICS



# Get in touch with us for further information



[www.fev.com/en/  
signature-solutions](http://www.fev.com/en/signature-solutions)