Technological impact assessment of automated driving on vehicle E/E architecture

FEV CONSULTING

CLIENT: ASIAN INDUSTRIAL CONGLOMERATE

BACKGROUND: Client wants to know about technological challenges due to autonomous driving functions. FEV was asked to provide comprehensive insights.

DELIVERABLES

- ADAS/AD roadmap & sales forecast for key markets Europe, USA and China
  - Based on SAE automation level, differentiated for each function
  - Estimation until 2035
- Analysis of key automotive market players
- Assessment of selected key topics related to ADAS/AD
  - Key challenges of E/E architect., sensor-set config., HD maps, costs
  - Impact on other vehicle models (Body, Chassis, Interieur, Exterior,...)
  - Current status of regulations & Standards
- Deep dive in E/E architecture
  - Provided information on vehicle hardware & software architecture
  - Identified development of E/E architecture due to AD technology
  - Analysis of OEMs regarding current and future E/E architecture developments