

CASE STUDY

SITUATION AND OBJECTIVE

A leading European commercial vehicle manufacturer is preparing its E/E architecture with automated driving features. Objective is to assess future partners for ADAS / AD technology and to define the according E/E architecture.



AI COMPUTING
2 GPUS, 2 SOCS, 12 CPU CORES



MULTIPLE CAMERA
90° / 80 M RANGE



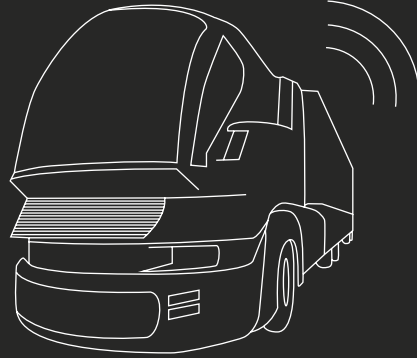
LR LIDAR
16° / 250 M RANGE



LR RADAR
18° / 300 M RANGE



SR RADAR
170° / 25 M RANGE



FEV APPROACH & RESULTS

FEV conducts a supplier capability assessment and develops ADAS / AD technology strategy.

Key aspects:

- ADAS / AD technology strategy
- ADAS / AD technology roadmaps
- OEM competitor benchmark
- Strategic supplier assessments
- E/E architecture layout

10 SUPPLIERS

ANALYZED IN DEPTH

5 OEMS

BENCHMARKED

60 FEATURES

FOR AUTOMATED DRIVING

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ABOUT FEV CONSULTING

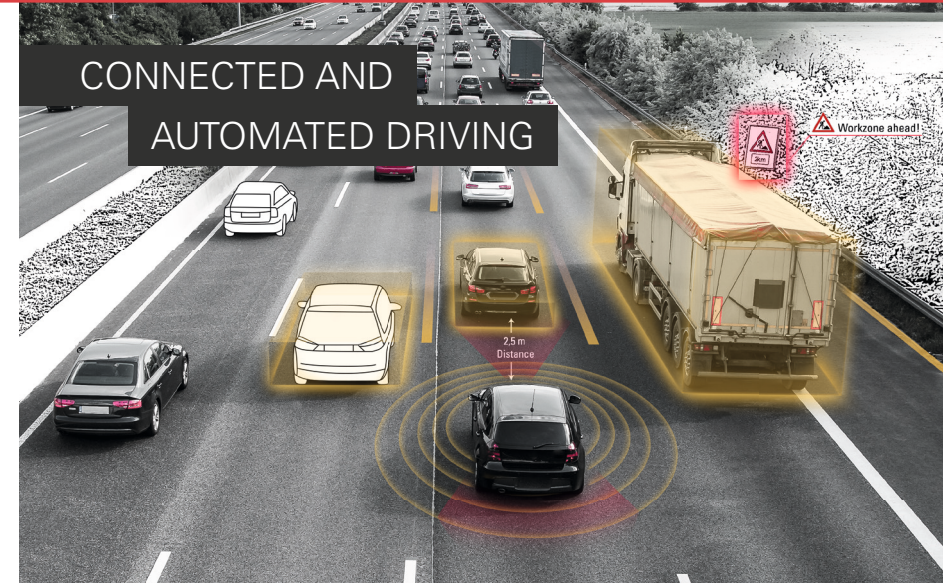
FEV Consulting combines top management consulting expertise with the technical capabilities and know-how of the FEV Group. Our deep industry knowledge enables us to create pragmatic solutions to some of the most pressing and complex issues facing today's enterprises.

Our team consists of experienced strategy consultants with deep industry knowledge and the backing of FEV's extensive technical expertise to provide solutions that are both practical and sustainable.

* AD = automated driving;
ADAS = advanced driver assistance system



CONNECTED AND AUTOMATED DRIVING



ADAS and AD market and technologies*

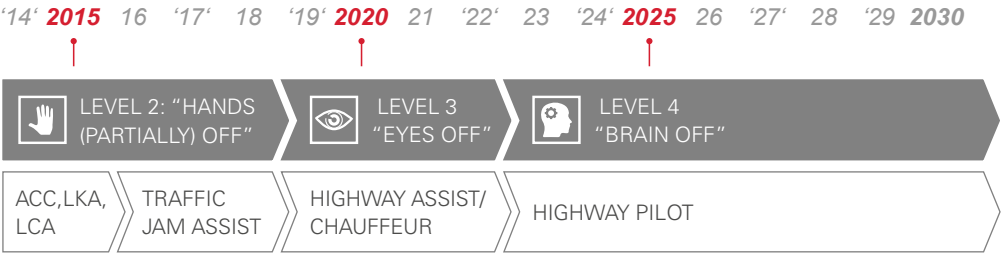
smart-vehicle.fev.com

FEV
CONSULTING

CONNECTED AND AUTOMATED DRIVING

Connected and highly automated driving will enter selected markets before 2025. The introduction of this technology has a large but widely unknown impact on future mobility demand and characteristic, powertrain and vehicle designs as well as the strategic movements of players within the global transportation value chain.

FEV is deeply involved in future smart mobility and vehicle concepts and supports its customer to take the right decisions in order not to miss prosperous growth opportunities.



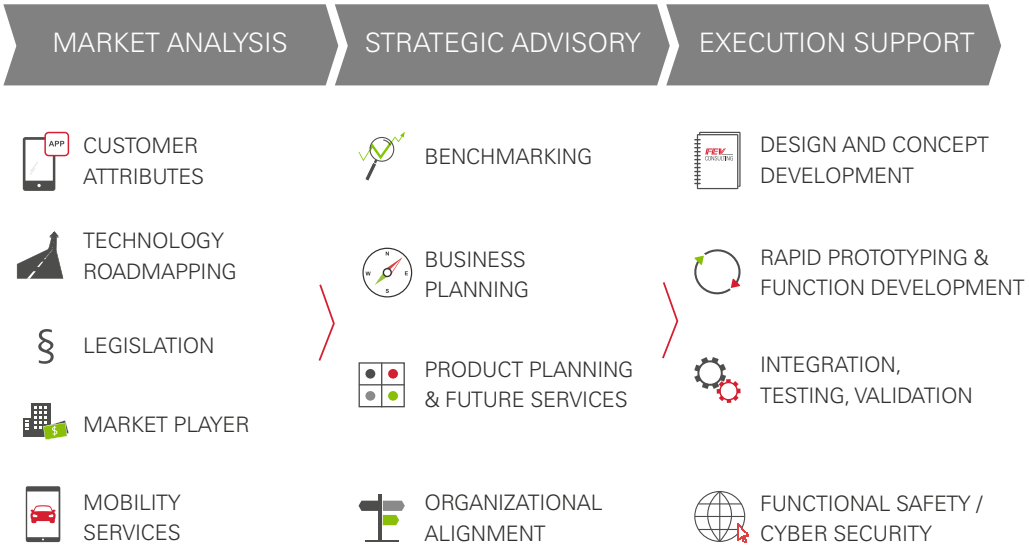
KEY QUESTIONS TOWARDS CONNECTED AND AUTOMATED MOBILITY

- What are current key trends?
- Which new players appeared and what do they bring to the industry?
- How can my company profit from the automation trend?
- Which technologies will be essential in level 3 vs. level 4-5 automated vehicles?
- How to protect the vehicle and cloud from cyber attacks?
- Who could be a potential partner?
- What are emerging new business models?

CONNECTED AND AUTOMATED DRIVING
ADAS and AD market and technologies

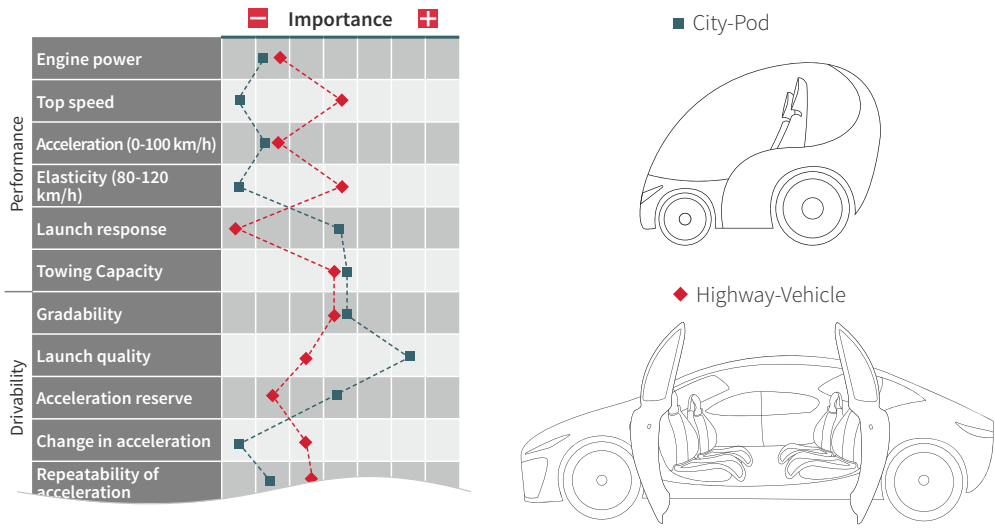
FEV PROVIDES ANALYSIS, ADVISORY AND IMPLEMENTATION SUPPORT

FEV SERVICE PORTFOLIO



HOW WILL (SHARED) SELF-DRIVING VEHICLES BE POWERED?

With an increasing degree of automation, customer requirements towards the vehicle evolve. Dependent on mobility and driving mode (e.g. shared, city or highway) the importance of performance and drivability features of self-driving vehicles change: Acceleration and Launch Performance requirements have to be re-evaluated and brought into development of vehicle concepts.



HOW TO DESIGN A "SMART" POWERTRAIN?