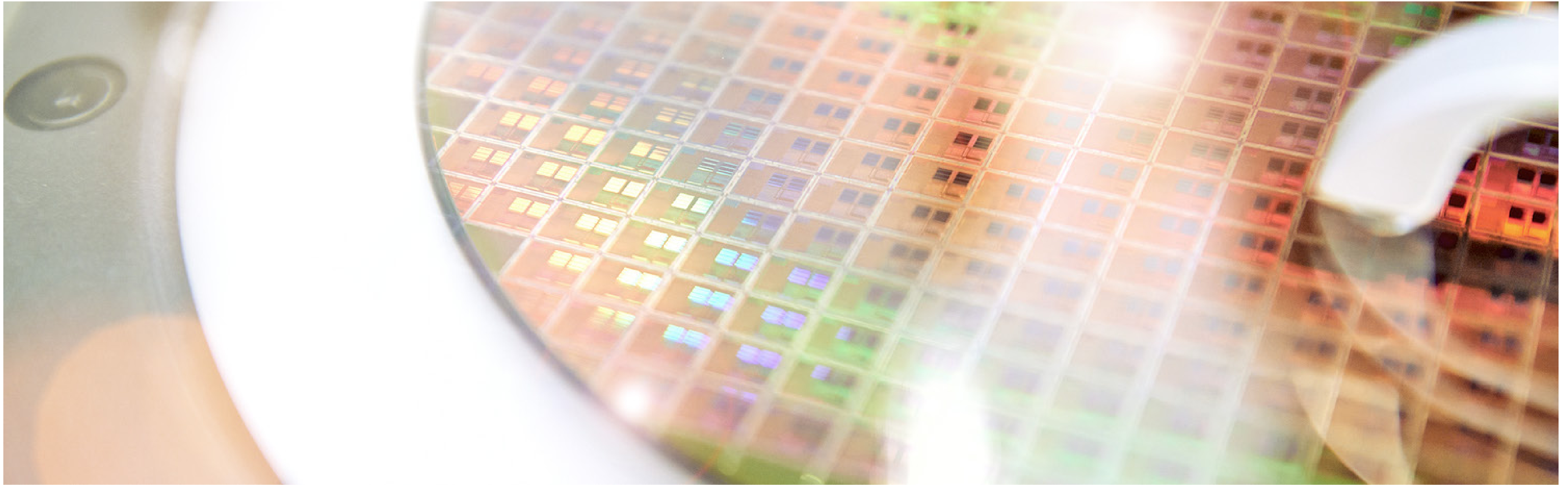


AutoDrive



Advancing fail-aware, fail-safe, and fail-operational electronic components, systems, and architectures for highly and fully automated driving for safer, efficient, affordable, and user-friendly future mobility

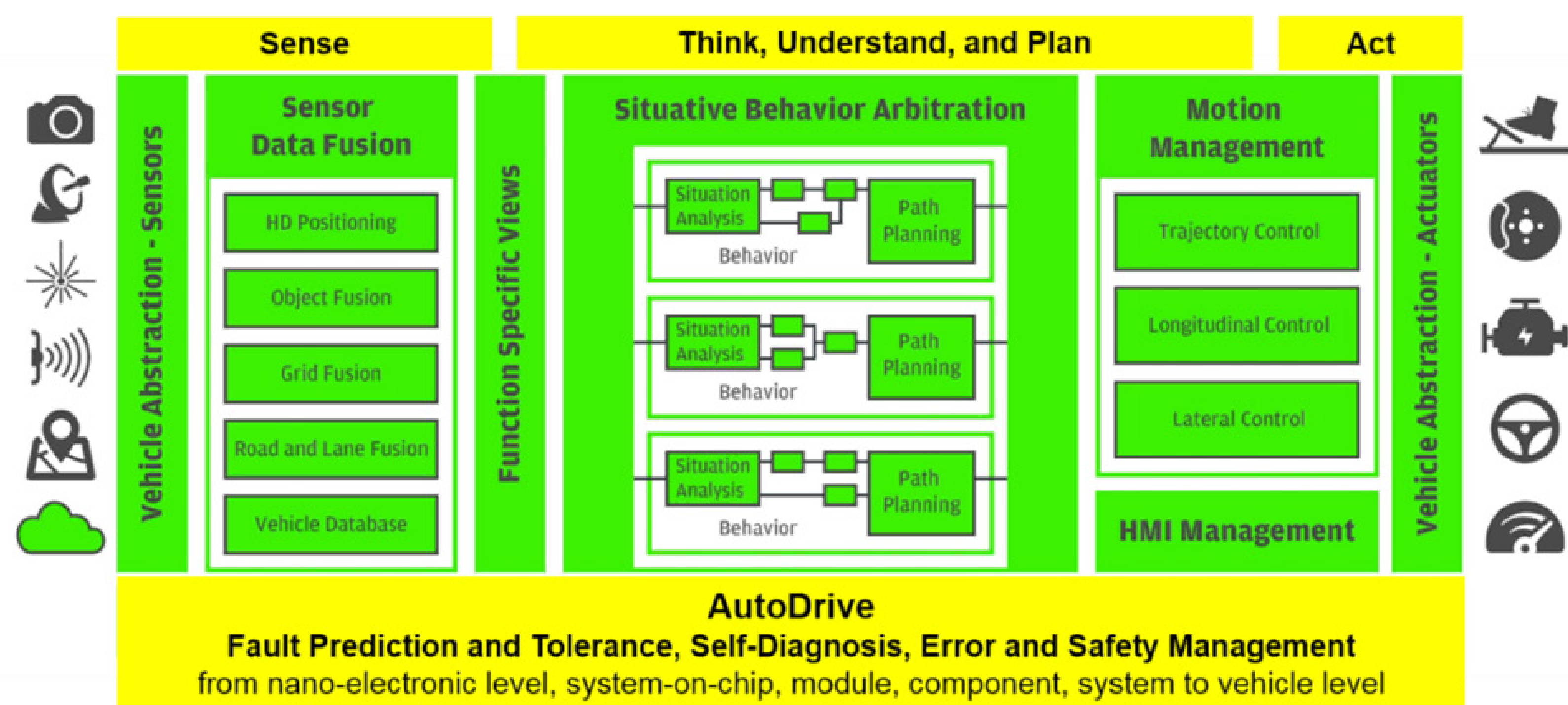
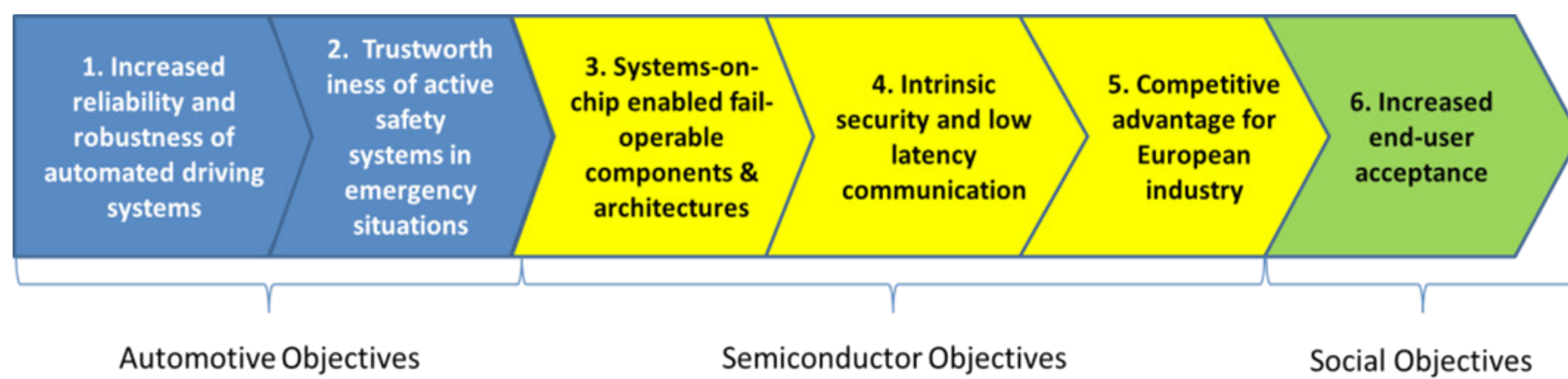


Objectives

AutoDrive will provide fail-aware, fail-safe, and fail-operational integrated electronic components, architectures and embedded software systems for highly and fully automated driving to make future mobility safer, more efficient, affordable, and end-user acceptable. Advancing towards fail-operational systems will require increased reliability of components as well as new redundancy schemes and architectures. The project research is heading for methodologies to appropriately manage and balance complexity, cost, robustness, and flexibility.

AutoDrive will make use of safety and security concepts from the aviation domain. It will make future mobility more efficient, affordable, and end-user acceptable.

Relevance and Impact



Technical Innovation

Overview on the key Supply Chain aims:

- Fully automated driving and flying systems targeting SAE level;
- Highly automated driving SAE Level 4;
- Cooperative active safety for automated driving;
- Fail-operational 800V automotive powertrain
- Safe, secure and low latency communication
- Acquisition, 360° sensing, perception, and environmental awareness;
- Embedded intelligence and systems for automated driving;
- Fail aware components and health prediction.

WE MAKE DRIVING AS SAFE AS FLYING



Germany
 INFINEON TECHNOLOGIES AG
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 DAIMLER AG
 FEV GMBH
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 FRAUNHOFER GESELLSCHAFT ZUR
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Start 1-5-2017
Duration 36

Total investment
 €M 68

Participating organisations
 58

Number of countries
 13

