



Objectives

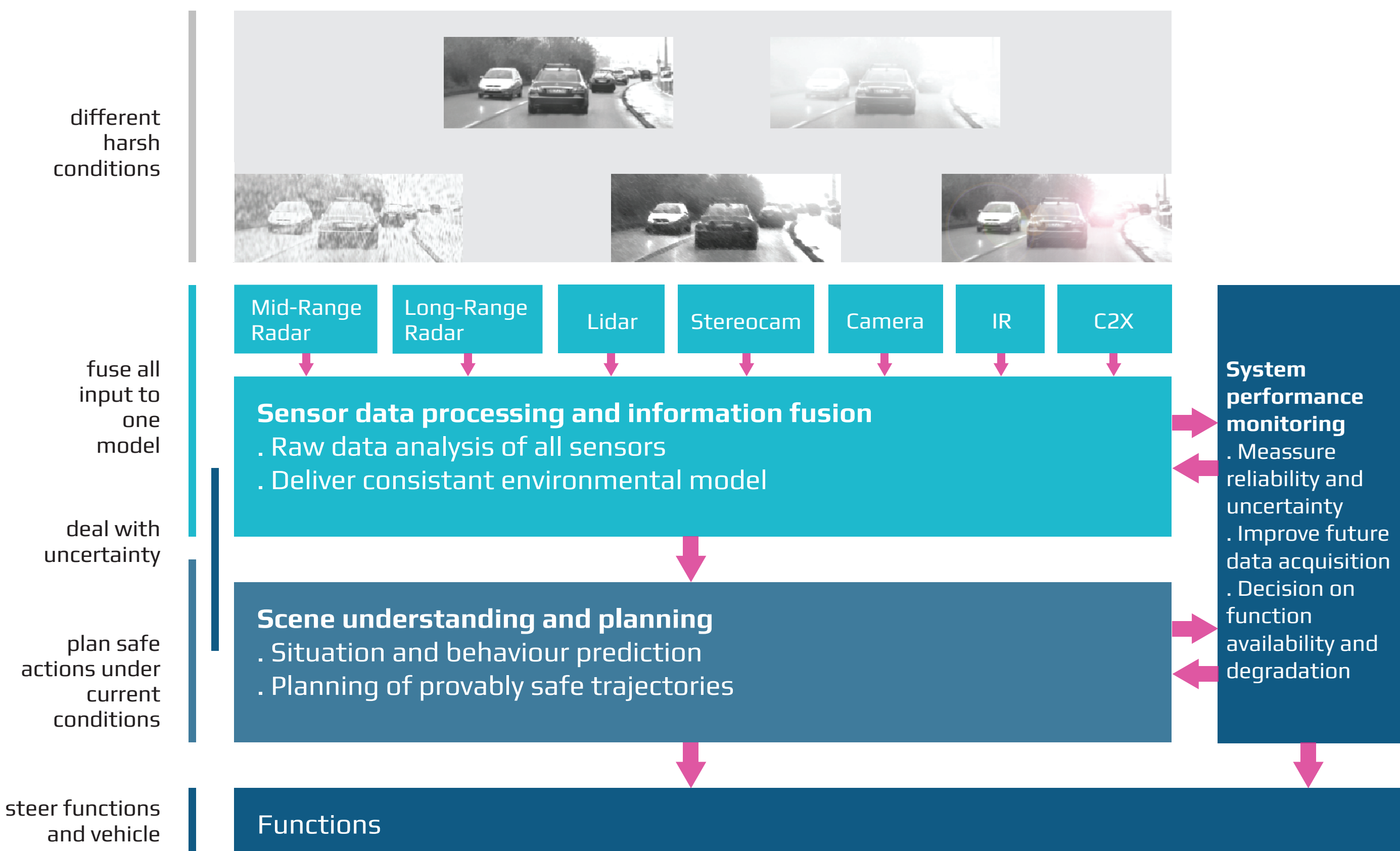
An improved platform is needed to achieve the necessary reliability of automated and autonomous driving functions for safe operation under all driving conditions. RobustSENSE aims to:

- create a robust and reliable sensor platform for automated and autonomous driving
- overcome performance and safety failures under adverse conditions
- provide enhanced sensing performance.

Relevance and Impact

To keep European industry's lead in driver assistance systems, the existing shortcomings of assistance systems, especially for self-driving vehicles, must be addressed. In particular, the limitations in the sensor components that currently limit the performance of the available sensing systems in adverse driving conditions.

RobustSENSE will therefore address the existing shortcomings of assistance systems by enhancing the performance of existing sensors and develop reliable sensor platforms for automated and autonomous driving, applying new techniques for sensor data processing and fusion. This will help Europe strengthen its lead in the worldwide ADAS and Autonomous Vehicles market.



Technical Innovation

- improved sensor technologies
- advanced methods for sensor signal processing
- innovative algorithms for sensor data fusion, scene understanding, behavioural planning and trajectory planning
- continuous monitoring by each sensor platform component of its performance and consistent information provision enabling continuous, overall system performance assessment to adapt assistance and automated driving capabilities to the prevailing conditions
- embedded redundancy that enables calculation of the best environmental representation under prevailing circumstances and present sensor reliability



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Start Duration
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Total investment
M€ 10,74

Participating organisations
15

Number of countries
5

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