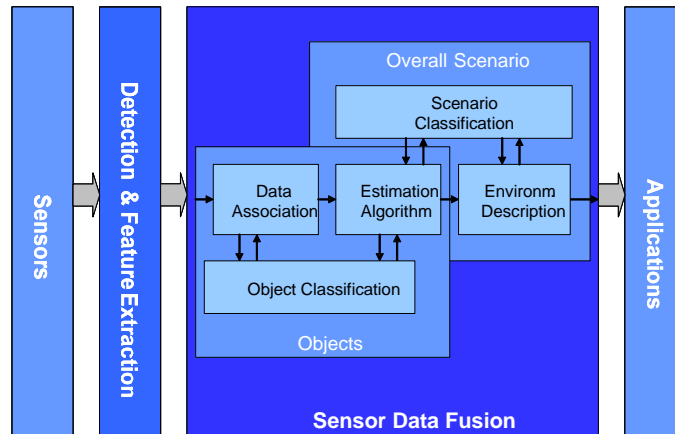


SEFS — A Swedish IVSS Initiative on Sensor Data Fusion

Aim of the SEFS Project:

- Provide environment information to a set of different applications
- All-around ego vehicle perception
- Increased reliability of detections and accuracy of observations

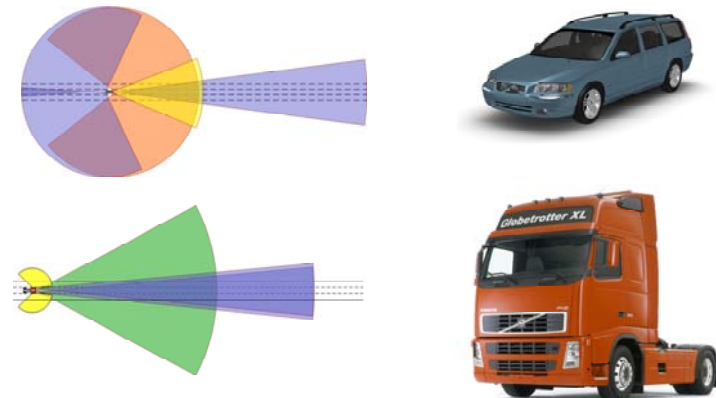
Project Scope & Objectives



SEFS Sensor Concepts:

- Different types of sensors provide unique strengths and weaknesses
- Covering relevant areas enables better situation assessment
- Multiple independent measurements of same target improves confidence
- Focus on vision and RADAR sensor information
- GPS / Map database can supply a-priori information

Sensor Coverage and Demonstrators



Effort of the SEFS Project:

- 4.5 years of duration. June 2005 - Dec. 2009
- Total budget 45 MSEK.
- Total work effort at Mecel: 5 man-year

End result of the SEFS Project:

- Modular fusion that supports code/component exchange and reuse
- Real-time platform built with rapid prototyping tools (Mathworks)
- Results compare favourable with commercial similar system on market

Partners



Linköpings universitet

We make vehicles communicate