The EMMA Project

- Embedded Middleware in Mobility Applications
- Specific Targeted Research Project (STREP)
- Funded under 6th Framework Programme
- Duration: 01.05.2006-31.10.2008
- 8 partners
  - from Spain, UK, Poland, Italy, Germany and Korea
  - Automotive Manufacturers, Automotive Component Suppliers, Transportation Service Providers, Universities
THE CONTEXT

Existing infrastructure will need to be operated up to its design margins, maintaining and even improving its safety levels.

**Co-operative Transport Systems** are the most promising solution.

- Smarter systems demand **smarter sensors**
- Cooperative systems require **cooperative sensors**

Visionary Scenario

- Many sensors and actuators in today’s cars
- ITS have to be cooperative in order to increase safety and security standards
  - Cooperation between cars
  - Cooperation with infrastructure
THREE MAIN PILLARS

APPLICATIONS

EM2P  WICOS  OS & IDE

HARDWARE

HIERARCHICAL APPROACH
Engine WICO Network Architecture

Validation of the Engine WICOs
Validation of the vehicle WICOs

- Overall aim: to provide absolute position of targets being tracked by the radar
Validation of the infrastructure WICOs

- Final goal: To give priority to emergency vehicles...
Validation of the infrastructure WICOs

- Final goal: ... or to distribute the traffic management process

Other examples: DataFusion for Navigation
Other examples: Seamless Access Control Across Smart Spaces

THANKS FOR YOUR ATTENTION

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