“CVIS”

Co-operative Vehicle-Infrastructure Systems

Integrated Project
IST Programme (6th FW)
RTD Priority “Cooperative Systems”

CVIS in brief

63 Partners

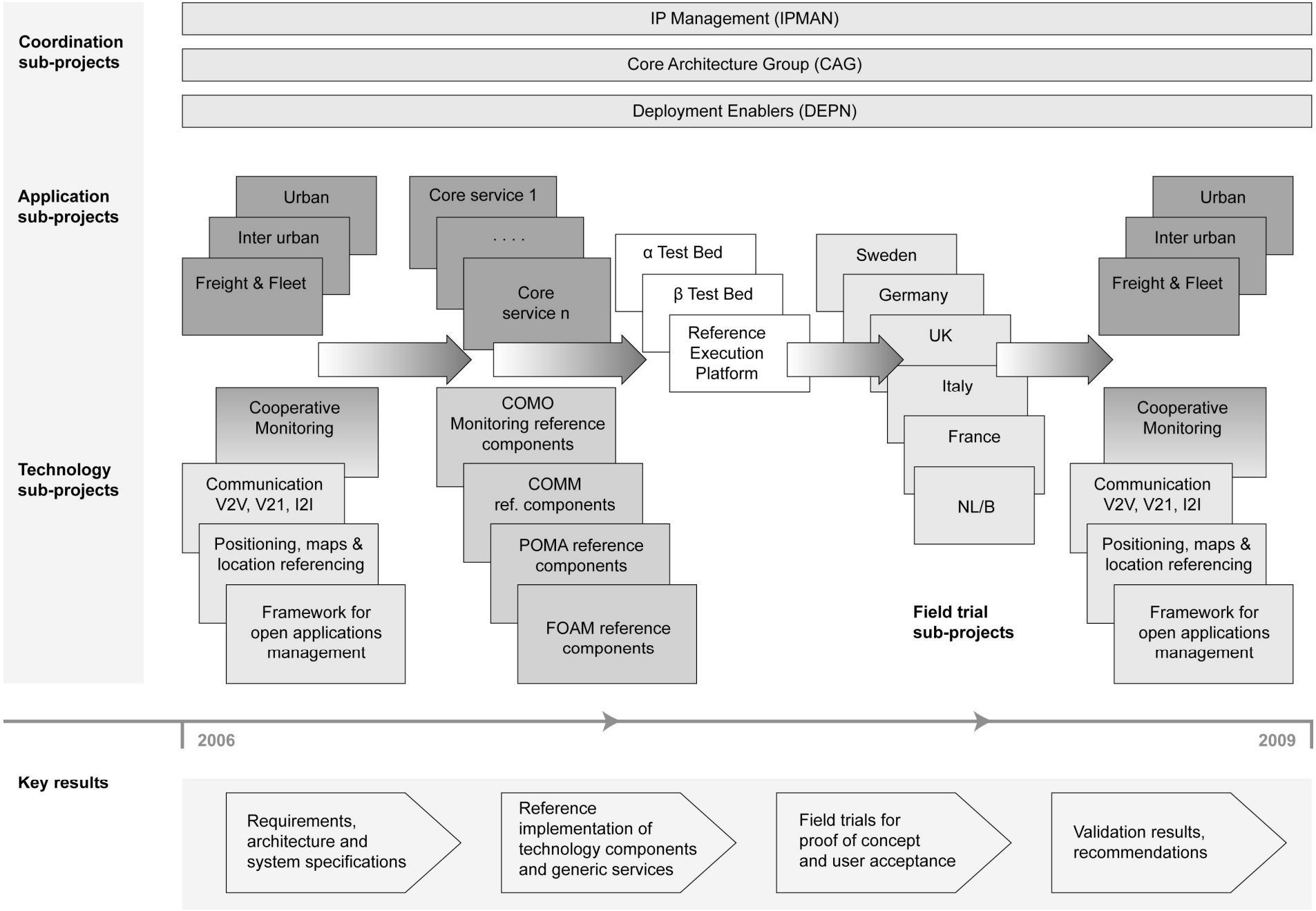
- 13 SMEs
- 12 countries

4 years' duration

Budget ~ €41m

Lead by ERTICO

Information Society Technologies



CVIS Project Overview

CVIS Project Objectives

Create pre-requisite conditions for widespread take-up of cooperative vehicle-infrastructure systems & services

- open, standards-based communications/ positioning/networking platform for both in-vehicle and RSU
- use all suitable comms infrastructure (existing & new)
- continuous (IP) connection V2V, V2I
- harmonised core application/service software
- range of attractive services - safety, efficiency, user
- positive business case for authorities, operators, service providers, manufacturers - and for user
- sustainable deployment road-map, no show-stoppers

CVIS applications

Cooperative Monitoring

- XFCD, fusion with infrastructure sensors

Urban

- Cooperative network management
- Cooperative area destination-based control
- Cooperative acceleration/deceleration
- Dynamic bus lanes

Interurban

- Enhanced driver awareness
- Cooperative travellers' assistance

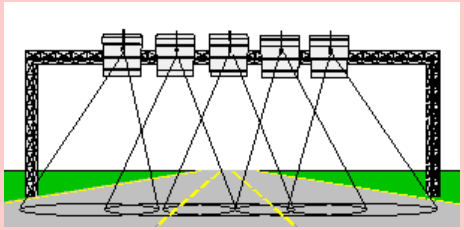
Freight and Fleet

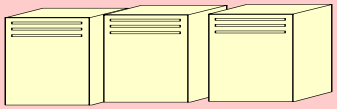
- Access control
- Dangerous goods
- Parking booking

The three CVIS technical subsystems

Roadside System

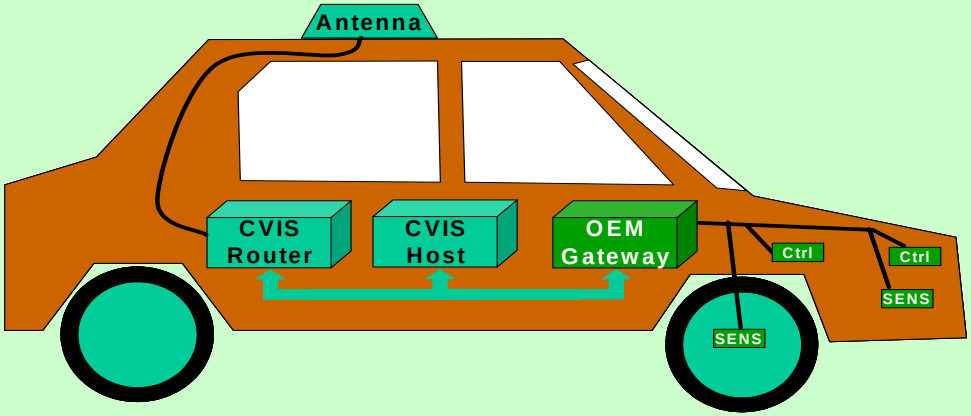
Sensors, Roadsigns, Data fusion, Communication & Applications.





Internet

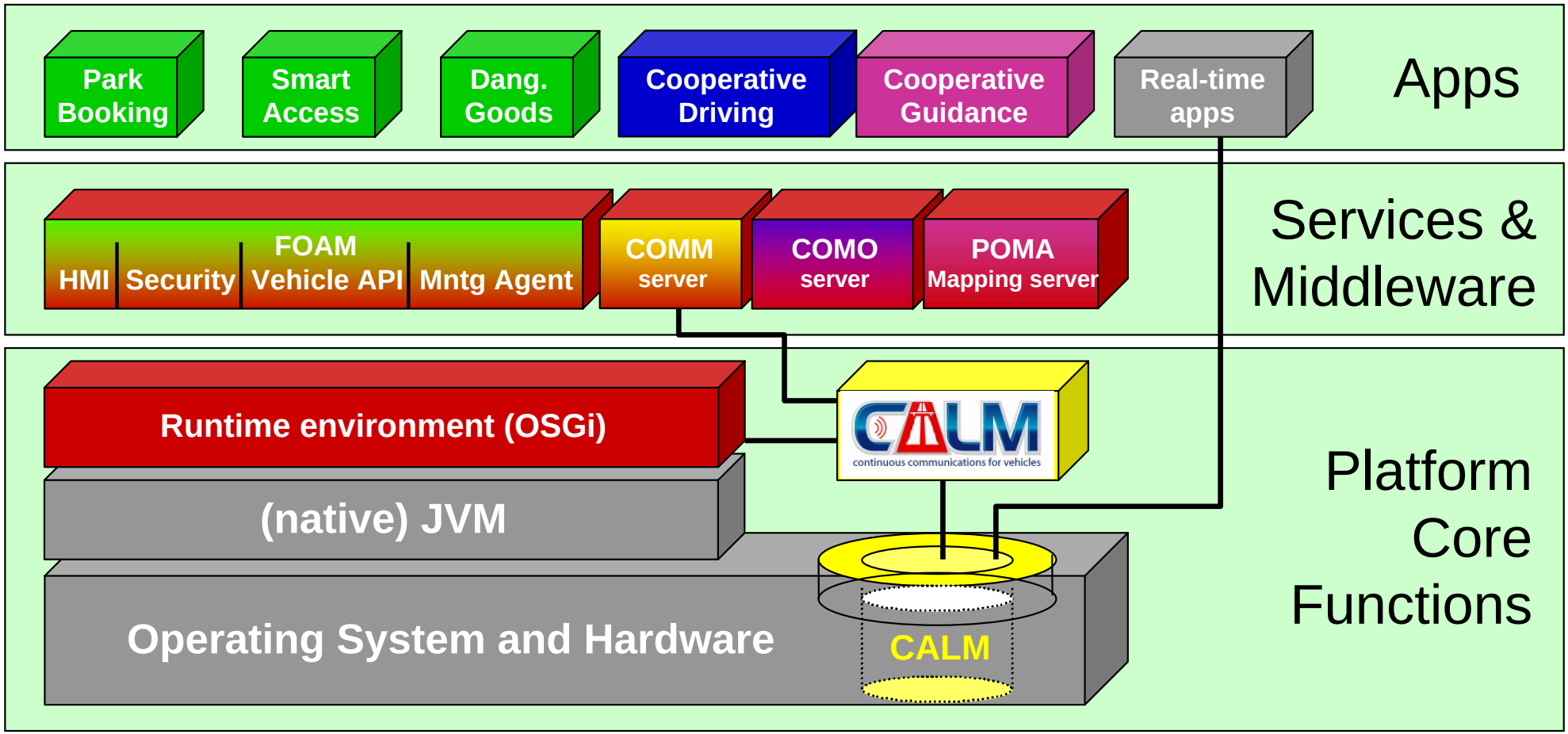
Vehicle System



Central System

Webservices, Applications and Databases

CVIS Platform Layers



CVIS summary

- CVIS represents safety critical applications - combined with efficiency applications.
- CVIS focuses on open technologies – will implement and make available a full platform for ITS communication and applications
- By mid 2007, CVIS need to have European-wide protected Roadside – Vehicle spectrum