



EASYWAY ANNUAL FORUM

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European Perspectives on Cooperative Systems

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European Transport Challenges

- **Safety**
- **Congestion**
- **Energy Efficiency & Emissions**
- **Growth in demand**
- **Balance between modes**
- **Make use of research and developments including ICT**

- **Increasing urbanisation**
- **Ageing of Europe's population**



Need for new Transport Policy Perspectives ?

Managing transport growth in a more sustainable way...

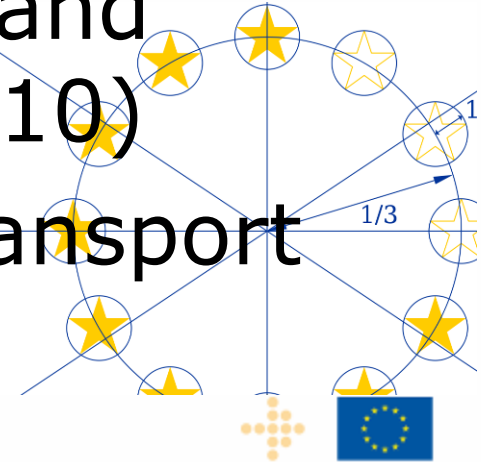
...while still providing user friendly Smart Mobility for People and Businesses...

....where ICT for Transport is key enabler.



Some Key Transport Policy Papers Setting the scene for ITS Initiatives

- ITS Action Plan (2008)
- ITS Directive (July 2010)
- Road Safety Action Plan 2011-2020 (July 2010)
- European strategy on Clean and Energy Efficient Vehicles (2010)
- White Paper on European Transport Policy 2020 (end 2010)



What is Cooperative Mobility?

Cooperative Mobility means

- Interconnection of vehicles and infrastructure
- Creation and sharing of new kinds of information
- Enhanced cooperation amongst drivers, vehicles and roadside systems



... an attractive option contributing to **safer, cleaner, and more efficient and sustainable traffic solutions** ...



Why Cooperate Mobility?

- **Improving safety and energy efficiency**
- *Making our transport system more intelligent*
- *Optimising existing transport system*
- *Increasing interoperability between modes*
- *New applications and services*



Support in EU

Cooperative Systems

- Research programmes (FP)
- Field Operational Tests (FOT)
- Pre-deployment (CIP)
- Standardisation
- International cooperation
- Towards large scale deployment



Research activities

Cooperative Systems

- Research funding since 2004
- Several large scale projects
- Addressing value-added mobility services
- Cooperative Mobility Showcase in Amsterdam 2010
- European Wide Service Platform (EWSP) for further deployment

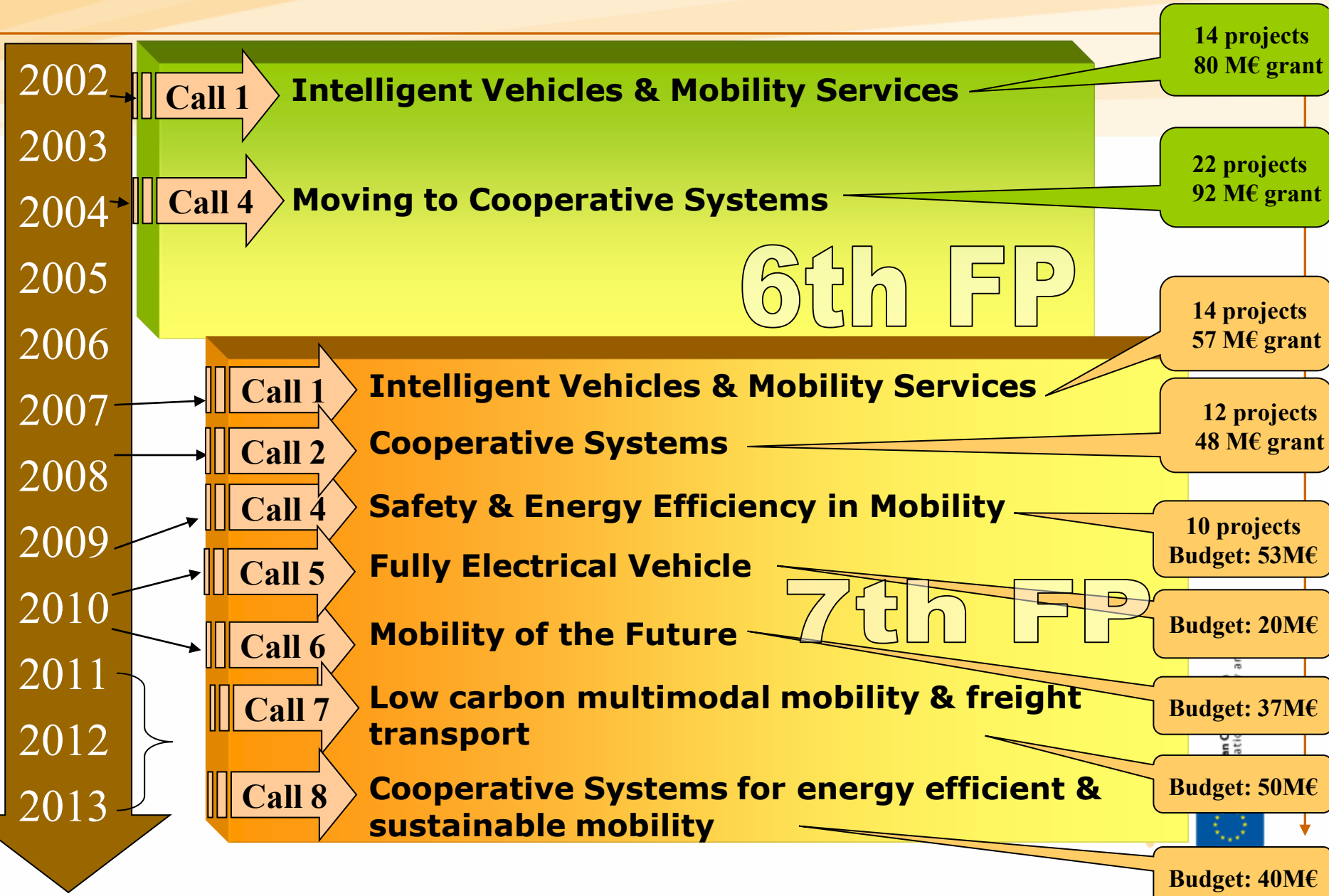


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Research supporting ICT for Transport

What have we done so far?



Ongoing calls

ICT-Call 7

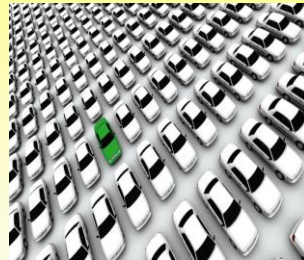
Low carbon multi-modal mobility and freight transport

- ICT for low-carbon multi-modal freight and logistics
- ICT for clean and efficient multi-modal mobility

Budget 2011: **50 M€**

Green Car:

ICT for the Fully Electric Vehicle



2010: **30 M€**
2011: **30 M€**

ICT-Call 8

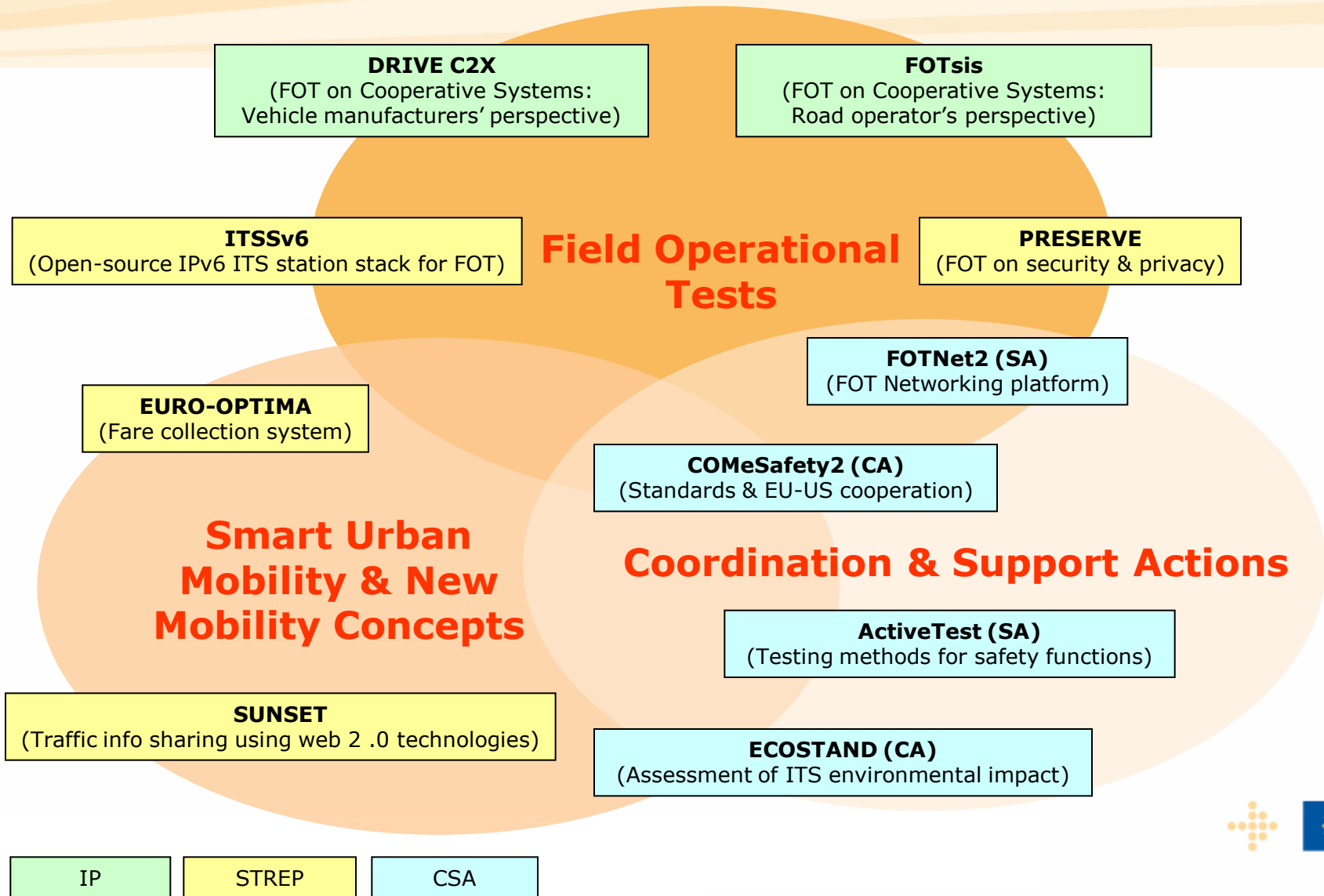
Cooperative Systems for energy efficient and sustainable mobility

- Cooperative Systems for low-carbon multi modal mobility
- European Wide Service Platform (EWSP) for cooperative systems enabled services

Budget 2012: **40 M€**



Projects under negotiation Call 7



Deploying Cooperative Systems

PRE-DRIVE C2X

PRE-DRIVE



**Final Event, Ulm,
September 2010**



DRIVE C2X
European FOT
on cooperative systems
starts in 2011

Mission

"To specify and prototypically realise a common European architecture for cooperative systems and to estimate a priori the impact on road safety and traffic efficiency."

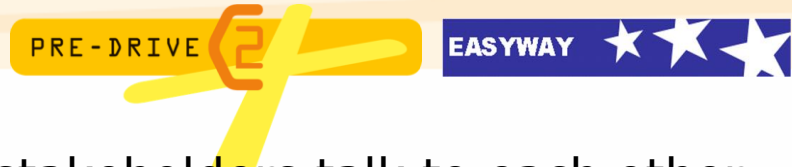
Outcomes

- System architecture for a European cooperative driving system developed on the basis of the COMeSafety architecture
- Robust prototype hardware and software components suitable for use in field operational trials
- Commonly agreed use cases for cooperative systems with particular focus on implementation aspects and benefit/cost ratio
- Integrated simulation tool set to assess the impacts of vehicular communication
- Verified methods and tools for field operational trials with cooperative systems



Deploying Cooperative Systems

PRE-DRIVE C2X and EasyWay cooperation



PRE-DRIVE C2X and EasyWay made stakeholders talk to each other creating a platform to agree upon common actions.

(2009) Joint Workshop on cooperative systems perspectives:

- identification of stakeholders' viewpoints and policies related to ITS applications based on cooperative systems

(2010) Joint Workshop on cooperative systems deployment roadmap:

- creation of a common list of priority applications clustered in "safety", "traffic efficiency" and "infotainment & business"
- selected applications are under analysis to identify stakeholders' roles and actions
- (2011) The cooperation continues with DRIVE C2X and EasyWay.

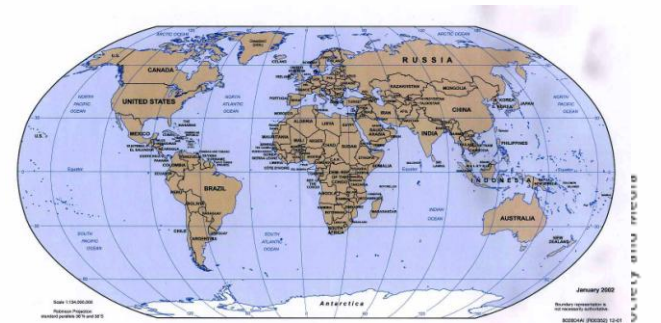


Standardisation and international cooperation

Europe supports a global approach to Cooperative Mobility which aims at a common communications architecture, interoperability and global, open standards

Some examples:

- European Communication Architecture for Cooperative Systems (2009)
- ETSI, ISO, IEEE, CEN, IETF and Projects
- Bilateral agreements with USA and Japan



Thank you for your attention!

