



Status of ITS Development and Deployment in Europe

ITS Promotion Forum, Nov. 21st 2012, Tokyo

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EU Transport Policy & ITS Directive

Policy framework for the deployment of ITS in Europe

Action Plan for the Deployment of Intelligent Transport Systems (ITS) in Europe (2008)



Directive 2010/40/EU: Framework for the Coordinated and Effective Deployment and Use of Intelligent Transport Systems

Road transport and interfaces with other modes

- › coordinate and accelerate deployment of ITS
- › make road transport more sustainable



Source: European Commission

ITS Directive



EU-wide Multi-Modal Travel Information



EU-wide Real-Time Traffic information

Free safety-related minimum Traffic Info



Interoperable EU-wide eCall

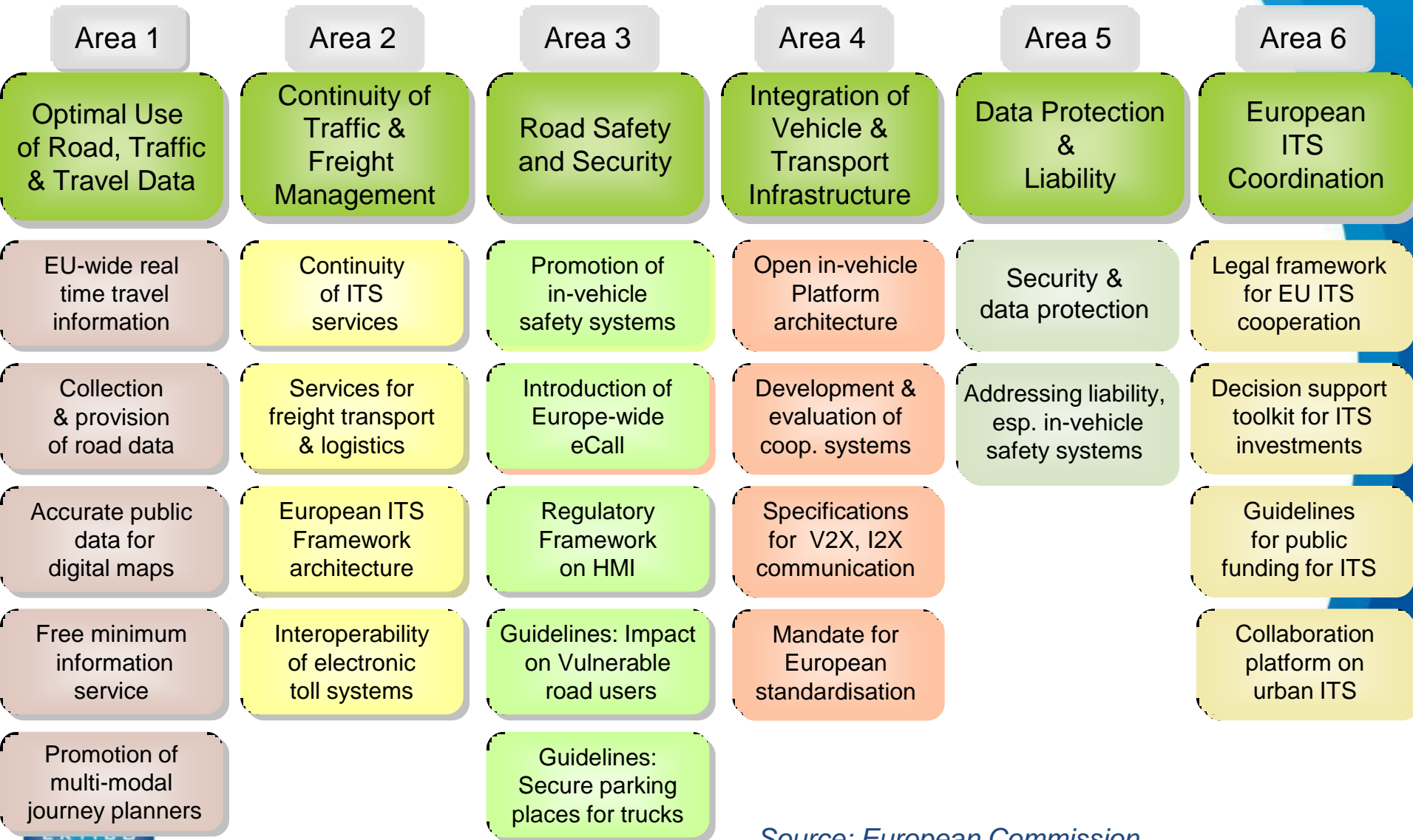
TRUCK PARKING



Information & Reservation systems for Truck Parking

SOURCE: European Commission

ITS Action Plan



Source: European Commission

ITS Action Plan

Some actions (1)

» Promotion of multi-modal journey planners (action 1.4)

- › 1st Smart mobility Challenge on European Multimodal journey planners completed in March 2012
- › Discussion in CY Informal Council in July 2012

» Road safety measures

- › Future in-vehicle safety devices (action 3.1)
 - E.g. Intelligent Speed Adaptation (ISA), Event Data Recorders (EDR)
- › Driver distraction and Human Machine Interface (action 3.3)



Source: European Commission

ITS Action Plan

Some actions (2)

Cooperative systems (actions 4.2 and 4.3)

- › Past and on-going research work
- › Stakeholder commitment

Urban ITS expert Group (action 6.4)

- › Collection of best practises
- › Guidelines for urban ITS (on multimodal travel information, on traffic management and on integrated ticketing)



Source: European Commission

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ITS for Urban Mobility

Urban Mobility objectives in FP7

- A dedicated priority activity of the “Transport” Theme on “Ensuring Sustainable Urban Mobility”
- Objectives/approach:
 - Improving mobility of people and transport of goods in urban and peri-urban areas (All transport modes and all users)
 - Developing clean, energy efficient, safe and intelligent urban transport systems
 - Technological, economic, regulatory and institutional aspects
 - New and accessible public transport systems



Source: European Commission

Urban Mobility objectives in FP7

Five research areas for ensuring sustainable Urban Mobility :

1. New transport and mobility concepts
2. High quality public transport
3. Demand management
4. Innovative strategies for clean urban transport
5. Policy support



Source: European Commission

Topics launched for Urban Transport Research

Clean, smart and accessible cities

The Bus of the Future (EBSF, 3IBS)



Hybrid Buses & Trucks (HCV)



Urban Infrastructures (URBAN TRACK) and interchanges (NODES, CITYHUB)



Accessibility for All (MEDIATE, ACCESS 2 ALL, PUBTRANS4ALL, METPEX)



Automated Transport Systems (CITYMOBIL2, CityNetMobil, HOST, PICA, CATS)



Soft Modes (BIKE INTERMODAL)



European Green Cars Initiative: Electric Vehicles inc. buses, Urban-Interurban shipments



City Logistics (CITYLOG, CITYMOVE, FURBOT, DELIVER, STRAIGHTSOL, SMARTFUSION)



Noise Reduction (SILENCE, Q-CITY, CITYHUSH, RIVAS)



International Cooperation (SIMBA, TRANSAFRICA, VIAJEO, STADIUM)



Multimodal Journey Planners (i-TRAVEL, WISETRIP, i-TOUR, VIAJEO)



Traffic Management (i-TOUR, DELTA, CONDUITS)

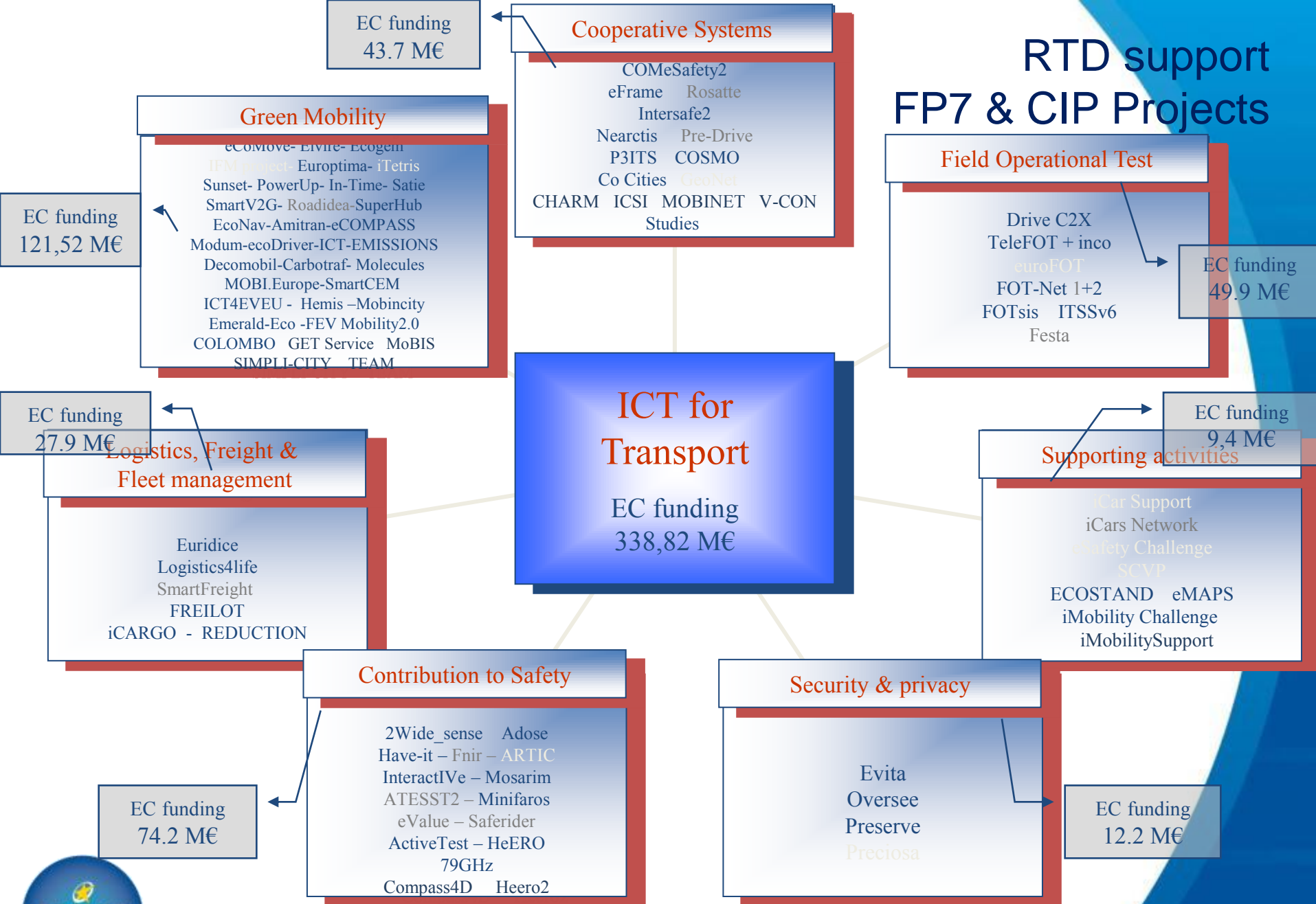


CIVITAS



Source: European Commission

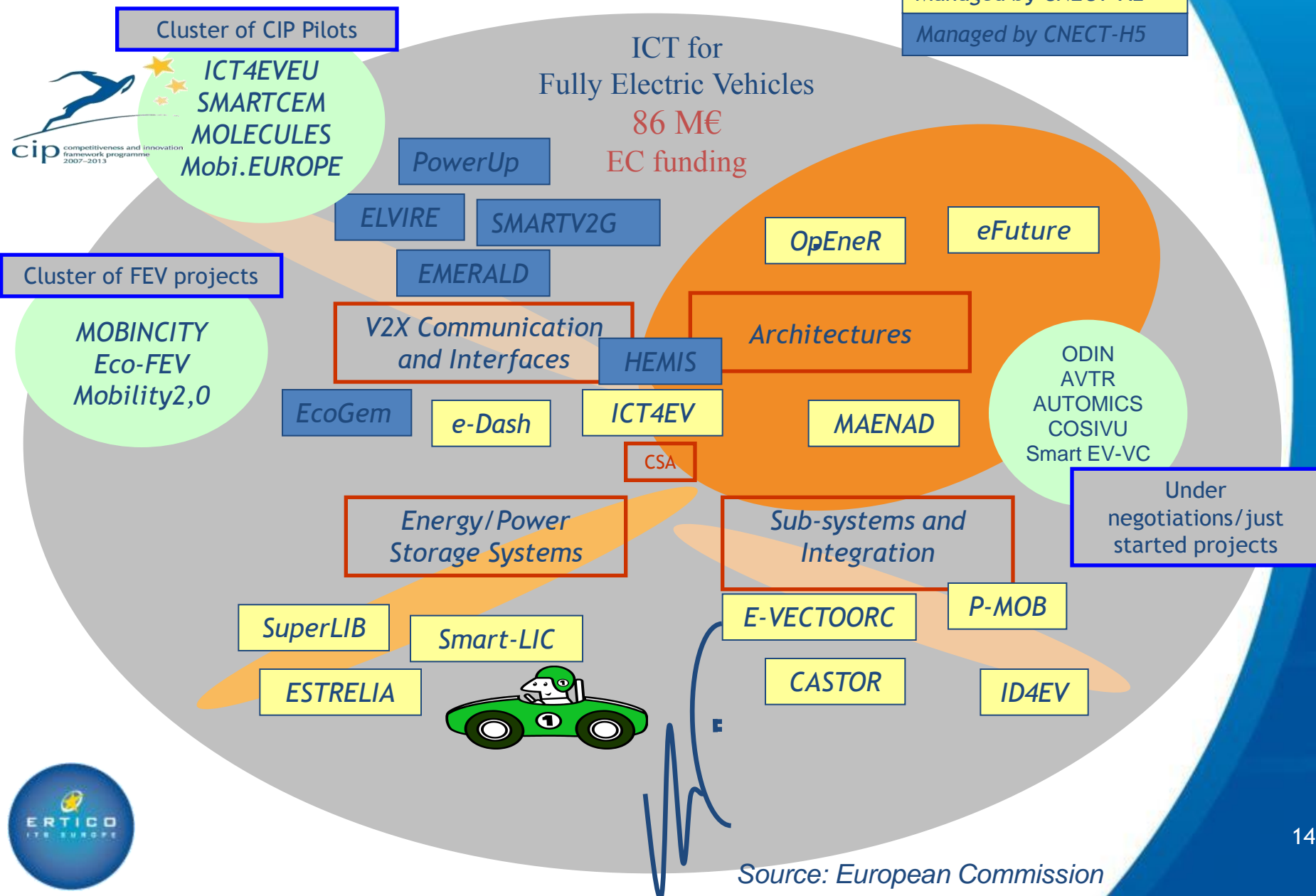
RTD support FP7 & CIP Projects



Source: European Commission

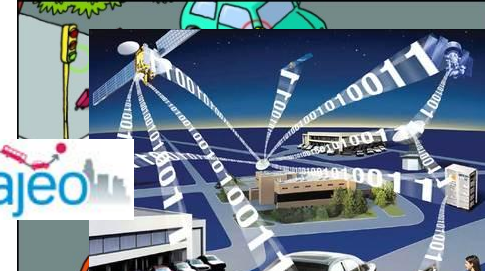


ICT for Fully Electric Vehicles



ERTICO Partnership activities in Urban Mobility

- » Electrical vehicles
- » Public Transport
- » Multimodal transport
- » Freight
- » Cooperative mobility
- » Future internet



New Projects starting by January 2013

- » **MOBiNET**: Integrated Project for European-wide platform for cooperative mobility services
- » **iMobility Support**: iMobility Forum support action for deployment of intelligent mobility in Europe
- » **HeERO 2**: Extension of harmonised eCall European pilot (Belgium, Bulgaria, Denmark, Luxembourg, Spain, Turkey)
- » **COMPASS4D**: Cooperative Mobility Pilot on Safety and Sustainability Services for Deployment
- » **CITYMOBIL2**: Cities demonstrating cybernetic mobility (fully automated road vehicle)
- » **PROS**: Priorities for Road Safety Research in Europe
- » **UDRIVE**: European naturalistic driving and riding for infrastructure & vehicle safety and environment
- » **iMobility Challenge**: iMobility Challenge and Awareness Raising



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eCall

Own-initiative Report from the European Parliament

Sehnalova - Koch report

*Report on eCall: a new 112 service for citizens
(2012/2056(INI)) - A7-0205/2012*

- Jointly prepared by TRAN and IMCO Committees
- Approved by the Committees by 58/4/8
- Approved by the Plenary on 3rd July by overwhelming majority



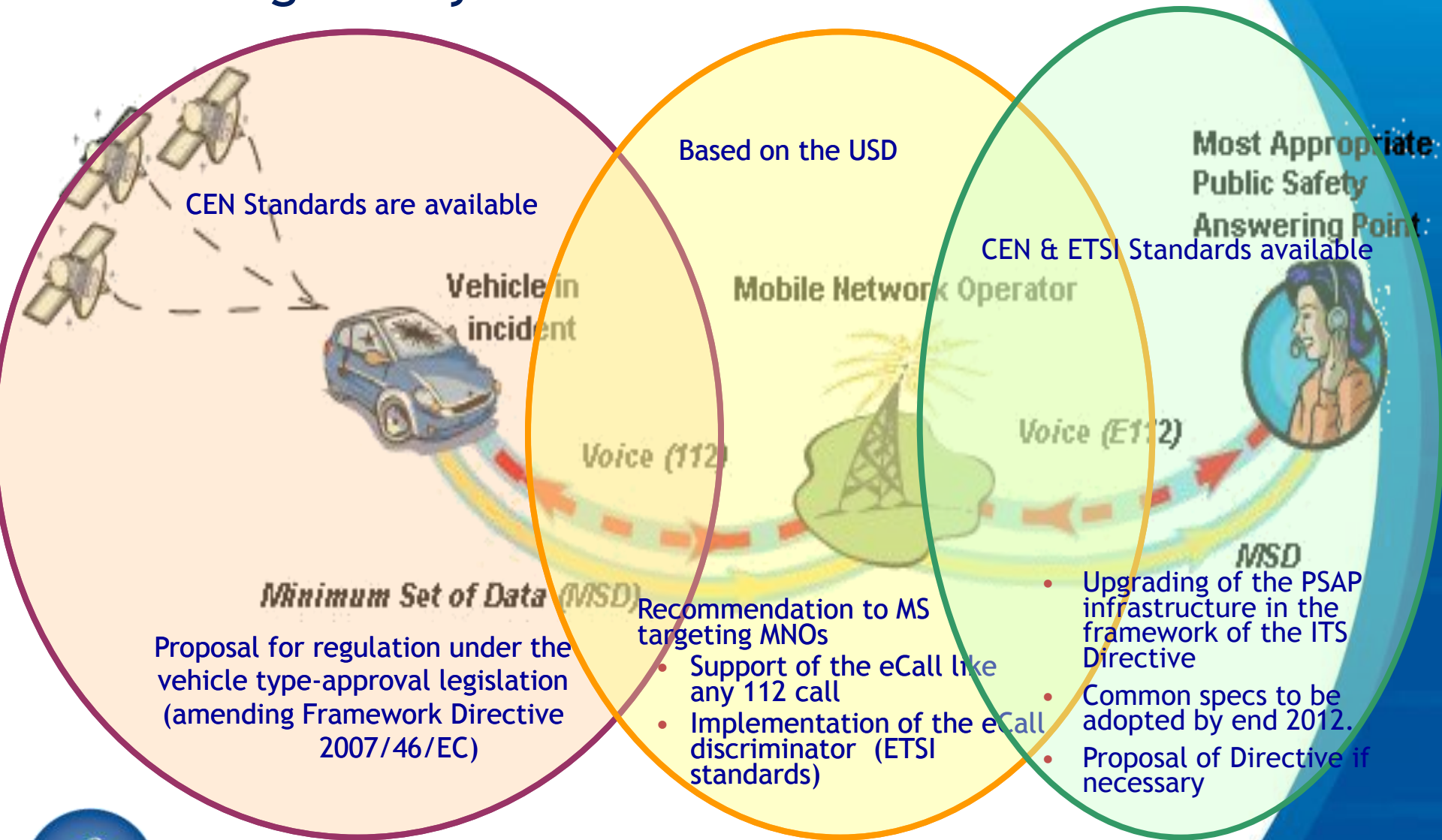
Main contents

- **Calls for mandatory introduction of eCall in EU**
- **Public service based on 112 and pan-European standards, embedded in all vehicles and in all EU**
- **Calls Commission to accelerate legislative proposals to ensure timely and parallel implementation of the eCall service by 2015**
- **Clear rules on liability. Respect to privacy. Open choice**
- **Coexistence with private services**
- **Consider the extension to other vehicles (P2W, HDV, buses and coaches,...). Aftermarket allowed.**
- **MS to sign MoU**
- **Support to HeERO extension and cooperation with ERA-GLONASS**
- **Request for awareness campaigns**



Source: European Commission

Status Regulatory measures



Source: European Commission

Standardisation

- Public service 112-based only
- Voice + MSD to relevant PSAP
- 112-based, with or without intermediation platform under Public delegation

CEN TS/EN 16454

eCall end to end conformance testing

Under Ballot (30.11)

EN 16072

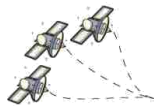


Pan-European eCall Operating Requirements

High Level Application Protocols



EN 16062



Car in incident



ETSI TS 122 101



-Voice + MSD on 112
Voice (112)

EN 15722

MSD



ETSI TS 124 008
Table 10.5.135d

eCall Flag

In-band modem trx



1st Level PSAP



ETSI TS 126 267

"eCall Data Transfer -
General Description

ETSI TS 126 268

"eCall Data Transfer.
ANSI-C Reference Code

ETSI TS 126 269

"eCall Data Transfer.
Conformance testing

ETSI TS & TR 126 969

"eCall Data Transfer.
Characterisation Report

20

Data registry procedures
- ISO/EN 24978:2009



Source: European Commission

EN 16102

TPS-eCall Operating Requirements

eCall NAD conformance specs:

ETSI TS 102 936-1



Protocol test specification

ETSI TS 102 936-2



Test Suites

ETSI-MSG & 3GPP. Chair: E. Barck

CEN TC 278 WG 15. Chair Bob Williams



HeERO 1 status



- HeERO: pre-deployment pilot project for Pan EU eCall based on 112
- 9 European Member States Pilot Sites: Italy, Germany, Romania, Czech Republic, Greece, the Netherlands, Croatia, Finland, Sweden
- HeERO focuses on:
 - In Vehicles System,
 - Mobile Networks Operators
 - PSAP (Public Safety Answering Point)
- » Phase 1 Operational testing in 7 Pilots sites complete, 1 Site Testing Phase 1 and 1 Site no testing activity awaiting equipment
- » Phase 2 Operational testing just started
- » eCall International Conference on 15/11/2012 in Zagreb
- » Work on Standardization (ETSI/CEN) and Certification;



HeERO 2



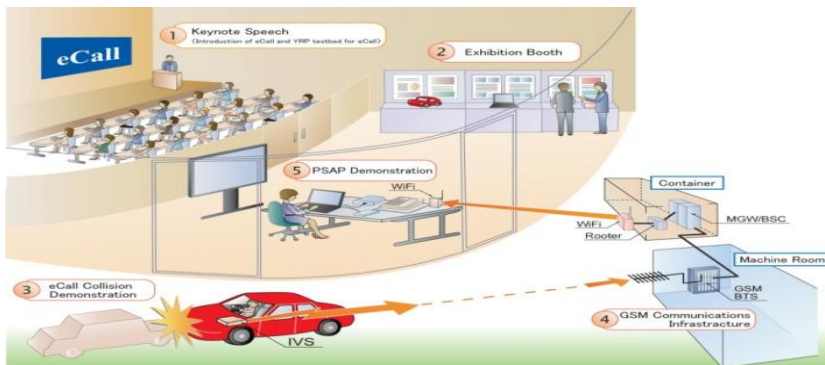
Harmonised eCall European Pilot

- » Will extend the action of HeERO1 involving 6 new countries: Belgium, Bulgaria, Denmark, Luxembourg, Spain, Turkey
- » It will also focus on **heavy good vehicles** and **powered 2 wheeled vehicles** and **after market devices**
- » HeERO 2 will last 2 years (2013-2014)
- » Project will start 1st January 2012
- » Associate Pilot Sites: - Cyprus, Israel, Hungary, Slovenia and Russia (ERA GLONASS)
 - › Pending:- Portugal, Poland and Estonia
- » Associate Partners: - CRF, Ford, Jaguar LandRover, Toyota, Nokia, KPN and CERTECs



eCall Day in Yokosuka

- » Organizer : Yokosuka Telecom Research Park, Inc, FUJITSU TEN, Cinterion Wireless Modules GmbH,
- » Cosponsor: YRP R&D Promotion Committee
- » Date & Time : **December, 19th, 2012** 1:00PM start
- » Site : YRP Center No.1 building YRP Hole/Yokosuka-city, Kanagawa, Japan
- » Admission Fee : Free



Inquires: Yokosuka Telecom Research Park, Inc. Ogawa /Sato

Mail : iot-info@yrp.co.jp

Registration: <http://salon-yrp.net/form/mail.cgi?id=ecallday>

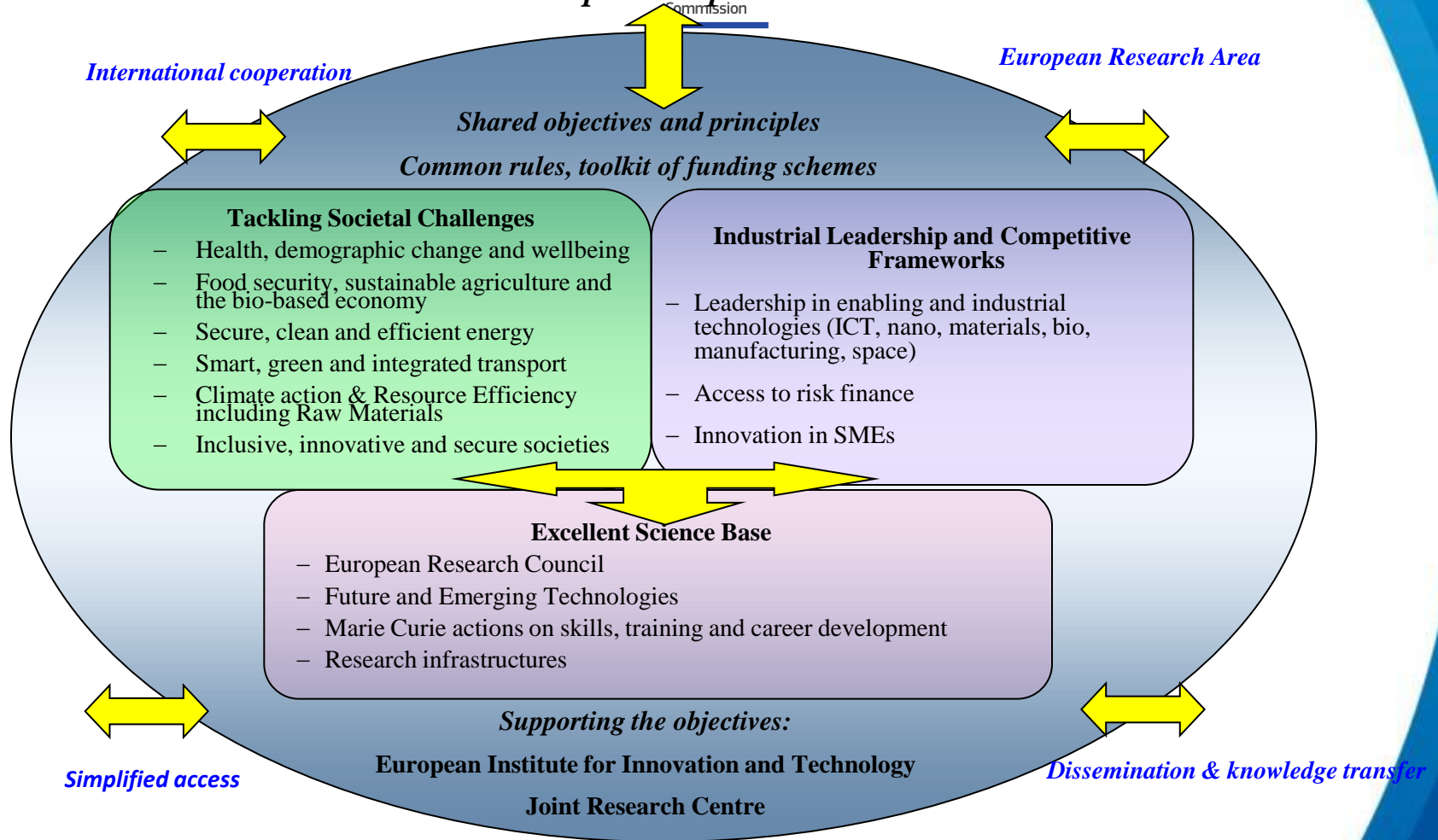


Future EC Workprogramme Horizon 2020 (2014 - 2020)





Europe 2020 priorities



Horizon 2020 – Objectives and structure

Source: European Commission





***Smarter** on the way*

ITS Vienna 2012 Review:

Facts and figures & Highlights



Highlights

- › Monday : EC ITS Conference
Ministerial Roundtable
Opening and welcome reception
- › Tuesday : Public Authority day
ERTICO Cocktail
- › Wednesday : Urban Mobility day
EU-US Cooperation: Results of the Working Groups
- › Thursday : Public day
International Cooperation Summit
- › Friday : Conclusion Session, Plenary Session & Closing
I Mobility Award
ITS standardisation for harmonised and effective deployment



All the week : GSA Space base



Facts & Figures

- More than 10.000 participants
- 91 countries
- 21 % female attendees
- 2000 participants during the opening
- More than 3000 delegates including Ministerial day Monday
- Monday : 15 Ministers and 30 High level representatives from Public Authorities and global organizations from 31 countries
- Public day: 2500 visitors, more than 900 pupils
- Media representatives: 183 from 22 countries



Facts & Figures

- 23 technical demos
- Participants on the demo tours: 2480
- Congress navigator: 1500 downloads
- Exhibition : 16.000 sqm, 304 companies from 33 countries , 4500 exhibition visitors during the whole week and 2400 stand personnel.



Ministerial Roundtable

› Monday 22 October :

Collectively, they declared support for the deployment of ITS and to stronger integrate the outcomes of future ITS World Congresses into the structuring of political frameworks



Highlights

- Welcome Reception
- VIP dinner & video competition
- Gala dinner & bal
- Hall of Fame
- Best paper awards
- And many more

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*Thank you to all participants and
looking forward to seeing you in
Dublin and Tokyo to continue this
success story*



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