Where do we go? –
Connected Vehicles & Automation

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This presentation solely expresses the personal views of the author.
Where do we stand?

- Field Operational Tests (FOT) performed & on-going in all regions; *in Europe we support* ...

**DRIVE C2X**

- Carry out a comprehensive assessment of cooperative systems through extensive Field Operational Tests;
- Create and harmonise a European-wide testing environment for cooperative systems;
- Coordinate the tests carried out in parallel throughout the DRIVE C2X community;
- Evaluate Cooperative Systems;
- Promote cooperative driving.
- **Final event in Berlin on July 16-17, 2014**
Where do we stand?

- **FOTSIS** (Field Operational Test on Safe, Intelligent and Sustainable Road Operation)
  Large scale field testing of the road infrastructure management systems needed for the operation of seven close-to-market cooperative I2V, V2I & I2I technologies (the FOTsis Services), in order to assess in detail
  - their effectiveness and
  - their potential for a full-scale deployment.

- FOTsis tests the road infrastructure’s capability to incorporate the latest cooperative systems technology at nine test sites in four test communities (Spain, Portugal, Germany and Greece) for
  - Emergency Management
  - Safety Incident Management
  - Intelligent Congestion Control
  - Dynamic Route Planning
  - Special Vehicle Tracking
  - Advanced Enforcement
  - Infrastructure Safety Assessment
Where do we stand?

- Related projects and actions
Where do we stand?

• Results:
  – Wealth of data has been collected and assessed
  – Practical experiences have been gained

• Are we ready for deployment?
  – NHTSA decision of 3 February 2014
  – ITS Action Plan & Directive (August 2010) ...

• Stakeholder collaboration example
  – Amsterdam Group:
  – http://amsterdamgroup.eu
  – EuroCorridor (NL, DE & AT) on V2I applications
Where do we go?

- Research & innovation: H2020 Programme
- Infrastructure funding: Connecting Europe Facility
- Regulatory measures
  - Different in the regions
- Stakeholder cooperation
  - iMobilityForum as a PPP
  - Cooperative ITS platform
- User acceptance
  - Connected mobility
• Horizon 2020
  – Research & Innovation Programme of the European Union lasting for seven years from 2014 – 2020
  – Horizon 2020 is the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative
  – Budget: 80 billion € (i.e. 110 billion US-$)
  – Part of EU's multi-annual budget, complementing Structural Funds, Regional Funds, etc.
Horizon 2020

Coverage of the full innovation chain

Societal challenges

Industrial leadership

Excellent science

Basic Research

Demonstration

Technology R&D

Prototyping

Large scale validation

Pilots

Market uptake
• Horizon 2020 structure

- Excellent Science
- Industrial leadership
- Societal challenges
Transport research in H2020

- Smart, green and integrated transport
  - boosting the competitiveness of the European transport industries and achieve a European transport system that is resource-efficient, climate-and-environmentally-friendly, safe and seamless for the benefit of all citizens, the economy and society
- Budget: 6.40 billion € (i.e. 8.75 billion US-$)
- Organised in bi-annual work programmes
• Transport Work Programme 2014 - 15
  – 23 objectives in *Mobility for Growth* (MG)
  – Budget: 341 million EURO (i.e. 471 million US-$)
  – 8 objectives in *Green Vehicles* (GV)
  – Budget: 159 million EURO (i.e. 219 million US-$)
  – ICT for Transport focus:
    • Mobility for Growth (2 objectives)
    • Green Vehicles (1 objective)
    • Energy programme (1 objective); Smart Cities
Session II:  
Strategy & Outlook

Transport WP 2014-15

• Mobility for Growth
  • **Cooperative ITS for safe, congestion-free and sustainable mobility** (€20 million)
  • **Safe and connected automation in road transport** (€23 million)

• Green Vehicle
  • **Electric vehicles’ enhanced performance and integration into the transport system and the grid** (€20 million)

• Energy programme
  • **Smart Cities and Communities – ICT for Mobility**
Session II: Strategy & Outlook

International Cooperation

Implementing Arrangement January 2009

MoC signed June 2011

MoU signed October 2010
EU-US Showcase, Vienna ITS World Congress 2012

- The U.S. DoT and the EC DG CONNECT demonstrated cooperative vehicle communications to showcase their joint work on mutual ITS challenges and opportunities related to cooperative vehicles

- A huge success, to be continued …
Thank you for your kind attention

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