Intelligent Transport Systems in Greece, Last Developments

Pave the way towards Connected and Automated Mobility

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European Commission, DG CONNECT

4th Conference 2018, ITS HELLAS, Athens 18-19/12/2018
Europe on the Move: Commission completes its agenda for safe, clean and connected mobility

(3rd Package 17 May 2018)
Mobility Package III

- **new road safety policy on** vehicle and pedestrian safety, and on infrastructure safety management;
- **CO₂ standards for trucks**;
- A **Strategic Action Plan for Batteries**;
- **digital environment for information exchange in transport**;
- **streamline permitting procedures for projects on the core trans-European transport network** (TEN-T);
- **dedicated communication on** Connected and Automated Mobility
Communication on Connected and Automated Mobility

- Make Europe a world leader in the deployment of connected and automated vehicles.
- Mobility is at a cross-roads.

The Commission:
- favours a progressive approach based on experience gained during testing that will validate the safety of the technologies.
- follows an integrated approach between automation and connectivity.
- puts in place one single EU wide platform grouping all relevant public and private stakeholders.
- issues a set of Recommendations.
C-ITS platform PHASE II

(September 2017)

Roundtable
Signature of a MoU on Cellular V2X between:
1. 5G Automotive Association (5GAA) and
2. European Automotive and Telecom Alliance (EATA)

EATA Roadmap

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<th>Use cases</th>
<th>Communication Technologies</th>
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<td>- Hybrid communication: LTE, ITS G5 + LTE V2V, Mobile Edge Computing applications</td>
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<td>- Network slicing</td>
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<td>- LTE Broad casting: GNSS offset, hazards and HD-map updates</td>
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| Studies |
| - Business models responsibilities, safety concepts, Quality of service, Security and data protection, Regulation and standardization |

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<th>STEP 1</th>
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<td>- Highways, toll roads, (L2/L3)</td>
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<td>- High density truck platooning</td>
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<td>- Vehicular-to-vehicular (V2V) applications</td>
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<td>- Vehicular-to-infrastructure (V2I) applications</td>
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<td>- Cross border motorways networks</td>
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| Importance of dialogue and partnership with member states, E-ROADS and regions |

GEAR 2030

(October 2017)
16 (+ 2) European countries working to:

1. Link C-ITS pilot deployment projects;

2. Develop, share and publish common technical specifications (including the common communication profiles);

3. Verify interoperability through cross-site testing;

4. Develop system tests based on the common communication profiles by focusing on hybrid communication mix, which is a combination of ETSI ITS-G5 and existing cellular networks.
Delegated Act on C-ITS

- To be adopted under ITS Directive

- Complement the vision, strategy and deployment projects on C-ITS

- Give legal certainty to foster EU-wide deployment
  ⇒ Infrastructure + Vehicles

- Set minimal requirements to ensure interoperability

- Focus on Day 1 services, open hybrid communication approach, common security solution, data protection, compliance assessment
Letter of Intent

Signed by 27 Member States plus Switzerland and Norway, March 2017
5G Cross-Border Corridors

Note: List of corridors is non-exhaustive and subject to extensions
3rd EU Mobility Package*

Digital Gigabit Society
5G Action Plan

Stimulus CAM Corridors

Economic Competitiveness
(Invest EU)

* Agenda for safe, clean and connected mobility
AN AMBITIOUS EU 5G DEPLOYMENT ROADMAP

- Early 5G launch in selected areas: 2018
- Commercial launch of 5G services in at least one major city in all MS: 2020
- Comprehensive roll-out with geographical and sectorial focus
- Uninterrupted 5G coverage in all urban areas and along main transport paths: 2025

AN AMBITIOUS EU 5G DEPLOYMENT ROADMAP
Funding

3 Projects got funding through the ICT-18-2018, 5G call for connected and automated mobility:

• 5G-CARMEN
• 5G-CroCo
• 5G-MOBIX

More funding opportunities will be available under the Horizon 2020 Transport programme and the ICT-19 call on "Advanced 5G validation trials across multiple vertical industries", with a €90 million budget.

CEF2 as of 2021, for which the Commission has proposed to dedicate up to 1bn EUR for 5G cross-border corridors.
HIGH LEVEL STRUCTURAL DIALOGUE
Members States

- First in Amsterdam at Schiphol - 15 February 2017
- Second in Frankfurt - 14-15 September 2017
- Third in Gothenburg - 18-19 June 2018
- Fourth in Vienna - 28-29 November 2018

“Action plan automated and connected driving”

from the 2nd High Level Structural Dialogue on 14th-15th September 2017 in Frankfurt/M.
European R&I roadmap for Automated Mobility

- R&I strategy to support the development and deployment of connectivity and automation technologies for road transport in Europe
- Concrete action plan for short, medium and long-term research and innovation actions.
- Will be developed by EC with the support of MS and input from experts and stakeholders
- R&I initiatives and actions for 8 thematic areas:
Autonomous and Connected Cars meeting Climate objectives (Paris Agreement)

- Improved/Optimum performance of driving task
- Less fuel consumption – less polluting emissions
- More efficient powertrains and high levels of electrification of fleets
- Decarbonisation of road transport
- Reduced noise and traffic
- Clean air even in congested areas

Communication: A Clean Planet for all
A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy, 28 November 2018
THANK YOU
ΕΥΧΑΡΙΣΤΩ

Disclaimer:
The content of this presentation is the view of the author and do not necessarily reflect the official position of the European Commission.