Status of the implementation of the Road Map on Intelligent Transport Systems

Overview of activities promoting innovative transport technologies and Intelligent Transport Systems

Item 4 (d)
Intelligent Transport Systems and Services (ITS)

“any system or service that makes movement of people or goods more efficient and economical, thus more intelligent”

• ITS can help achieve sustainable mobility by making transport more efficient, safer and greener and provide more mobility options

• For this to happen technical solutions need to be nationally and internationally interoperable, and the technologies need to be embedded in appropriate policy frameworks and harmonized policies
**UNECE Road Map on ITS contains 20 global actions to promote the use of ITS:**

<table>
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<tr>
<th>Action</th>
<th>Description</th>
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<tr>
<td>1. Reaching common definition for ITS</td>
<td>11. Harmonizing Variable Message Signs (VMS)</td>
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<td>3. Forging international cooperation</td>
<td>13. Integrating with Rail Transport</td>
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<td>5. Ensuring data security</td>
<td>15. Enhancing the modal integrator’s role of ITS</td>
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<td>6. Scaling up work on ITS to all WPs</td>
<td>16. Developing cost-benefit assessment methodologies</td>
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<td>7. Promoting vehicle-to-infrastructure (V2I) communication</td>
<td>17. Contributing to climate change mitigation and adoption</td>
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<tr>
<td>8. Promoting vehicle-to-vehicle (V2V) communication</td>
<td>18. Launching analytical work</td>
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<td>10. Addressing liability concerns</td>
<td>20. Organizing the UN annual Round Table on ITS</td>
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</table>
Policy segment of ITC:
• UNECE secretariat to play a role in sharing good practices, enabling the exchange of information to accompany the development and implementation of ITS.

Road Map Actions addressed: Action 2

Symposium of the International Telecommunications Union (ITU) on the Future Networked Car during the Geneva Motor Show:
• to benefit from ITS, issues such as standards, cybersecurity, software reliability, information, legal frameworks and liability need to be addressed holistically with a wide range of actors

Road Map Actions addressed: Action 2, 3, 4, 5, 8, 9 and 17
Annual Round Table in Intelligent Transport Systems and Services in Brussels:

- Priority areas for progress: autonomous cars and automated vehicles, safety in intersections and level crossings, intelligent road charges and smart e-tolling, traffic management and variable message signs (VMS)

Road Map Actions addressed: Action 1, 2, 3, 4, 5, 7, 8, 9, 11, 13, 15, 16, 17, 18, 19 and 20

UNECE activities in 2014
Working parties of the Inland Transport Committee

- UNECE special session on Transport and Air Pollution
  *Positive impact from ITS expected*

- Working Party on Inland Water Transport (SC.3)
  *Pan-European River Information Services*

- Working Party on the Transport of Dangerous Goods (WP.15)
  *Telematics for Track & Trace of dangerous goods transports*

- Working Party on Road Traffic Safety (WP.1)
  *Amendments to the 1968 Vienna Convention*

- World Forum for Harmonization of Vehicle Regulations (WP.29)
  *Activities of ITS Informal Working Group redefined to address automated driving*
  - Working Party on Brakes and Running Gear (GRRF)
    *Platooning, highway autopilot and valet parking*
  - Working Party on General Safety (GRSG)
    *Standardizing positioning and telecommunication systems, eventually leading to first regulation on vehicle connectivity*

Road Map Actions addressed: Action 2, 3, 4, 5, 7, 8, 9, 10, 12, 14, and 17
Conclusions from activities in 2014

Connected vehicles:
• V2V and V2I will allow more active traffic management, addressing issues such as road safety, energy efficiency and emissions.
• Regulatory actions needed, quantify benefits and address cybersecurity concerns

Automated vehicles:
• Work needed on definitions and classifications
• Assess and address side effects of the deployment of the technologies

ITS across transport modes and their infrastructures
• Work on traffic management and the compatibility of ITS between TEM countries

Road Map Actions addressed: Action 2, 7, 13, and 15
Next steps:

• Symposium on Future Networked Car at 2015 Geneva Motor Show (5.3.2015)

• 2015 Flagship Annual Round Table in Bordeaux during the ITS World Congress (5-9.10.2015)

• Actions to cover automated vehicles within the internationally harmonized regulatory framework

• Strengthen ITS activities linked to infrastructure and all transport modes
THANK YOU FOR YOUR ATTENTION

http://www.unece.org/trans/theme_its.html