



77<sup>th</sup> Session

INLAND TRANSPORT COMMITTEE

# 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

## 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

## UNECE Road Map on ITS contains 20 global actions to promote the use of ITS:

1. Reaching common definition for ITS	11. Harmonizing Variable Message Signs (VMS)
2. Harmonizing policies	12. Making transport of Dangerous Goods less dangerous
3. Forging international cooperation	13. Integrating with Rail Transport
4. Facilitating interoperability	14. Integrating with Inland Water Transport
5. Ensuring data security	15. Enhancing the modal integrator's role of ITS
6. Scaling up work on ITS to all WPs	16. Developing cost-benefit assessment methodologies
7. Promoting vehicle-to-infrastructure (V2I) communication	17. Contributing to climate change mitigation and adoption
8. Promoting vehicle-to-vehicle (V2V) communication	18. Launching analytical work
9. Fighting the road safety crisis	19. Contributing to capacity-building, education and awareness raising
10. Addressing liability concerns	20. Organizing the UN annual Round Table on ITS





# UNECE activities in 2014

## 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





# UNECE activities in 2014

## 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)

ITS: toward a  
new  
transportation  
culture

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





# 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

## 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







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**THANK YOU  
FOR YOUR ATTENTION**

[http://www.unece.org/trans/theme\\_its.html](http://www.unece.org/trans/theme_its.html)

