Geneva, July 2017



unece and









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Global megatrends



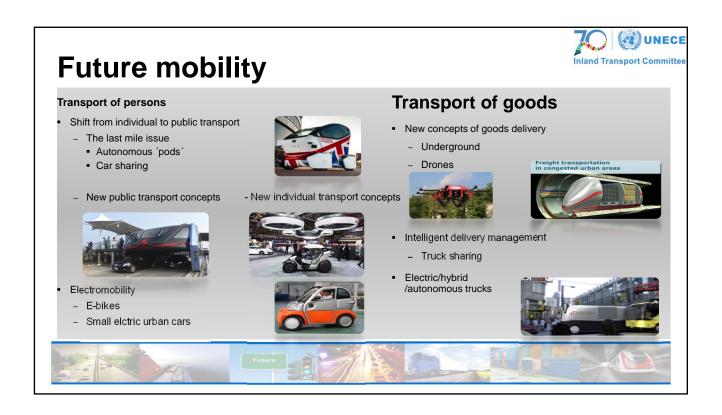
Challenges

- Urbanization
- Aging of Population
- •Climate Change
- Road Safety
- •Limited Resources

Responses

- Ownership of vehicle
 - → mobility as a service
- Access to mobility
- Electrification
- Use of 'big data'
 - Transport management
 - Traffic management

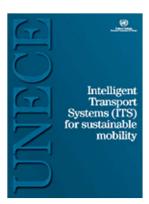




UNECE ITS strategy and roadmap



- Established in 2012
 - Background document
 - Strategic note
 - Road map
- Continued in 2015
 - ITS Concept Note







UNECE - ITS definition

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 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) 12. Making transport of Dangerous Goods less dangerous 2. Harmonizing policies 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

ITS – Concept Note



- ITS impacts the world of transport
 - Door to door mobility
 - Production to consumption freight transport
 - Mobility as a Service
- ITS role in achieving
 Sustainable Development
 Goals

























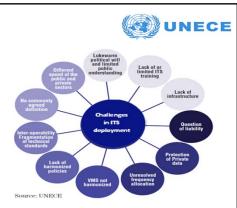


ITS - Concept Note (cont.)

- Challenges in ITS deployment
 - Interoperability
 - Fragmentation of technical standards
 - Lack of harmonized policies
- Ongoing activities and actors in the field of ITS
 - ITS World Congress
 - ITS activities at UNECE
 - ITS implementation in road traffic (WP.1) and vehicle regulations (WP.29) is on the way
 - Other Working Parties (WP.15, WP.24, SC.3, SC.1, AC.7, ...) started to work too

Holistic approach to harmonize policy and overcome technological and regulatory fragmentation needed





ITC Working Parties and ITS

- Working Party on Inland Water Transport (SC.3)
 - → Worked on ITS applications e.g. on pan-European River Information Services (RIS).
- The Working Party on Road Transport (SC.1)
 - → Worked on the electronic consignment note (e-CMR)
- The Working Party on the Transport of Dangerous Goods (WP.15)
 - → RID Committee and WP.15 (telematics IWG) continued its work on ITS
- The Working Party on Customs questions affecting Transport (WP.30)
 - → computerization of the TIR transit procedure eTIR
- · Global Forum for Road Traffic Safety (WP.1)
 - → Worked on the Vienna Conventions to address the challenges related to autonomous driving
 - → Established an informal working group on automated driving
- . The World Forum on Harmonization of Vehicle Regulations (WP.29)
 - → Worked on the automation levels definitions as well as Cyber Security and Privacy
 - → vehicle automation such as self steering systems and Remote Control Parking and AECS









Ministerial round table on ITS - Bordeaux



- Ministerial round table 5 October 2015
- 30 Countries endorsed the manifesto "ITS addressing climate change"

The participants to the minister's roundtable:

- express their appreciation for the support given by the previous Round Tables of Vienna, Tokyo and Detroit that has fostered the coherent deployment of ITS to face transport challenges;
- commit to promoting the deployment of ITS systems to reduce CO₂ and Greenhouse Gas emissions linked to transport through stepping up investments into these instruments;
- invite the experts, national decision makers, relevant international organizations and legal bodies to provide guidelines and capacity building actions to support the deployment of appropriate solutions based on ITS;
- invite both public and private sector stakeholders to come forward with 'best practice' examples of ITS deployment that contributes to the reduction of CO₂ and associated Greenhouse Gas emissions so that governments can be helped to reach the ambitious objectives to be decided during the COP21.

Main activities on ITS in 2016



- 78th ITC session, policy segment
 - on "Innovations for Sustainable Inland Transport with Special Attention to Information and Communication Technologies" calling for
 - -Common and not fragmented approach
 - -Access for all
 - -Availability of data and sharing of information



UNECE/ITU Symposium on The Future Networked Car

The symposium examined advances in the area of connected vehicles, from the perspectives of business, technology and regulation

Technical sessions highlighted the relevance of work done on cyber security

2016 Annual Roundtable on ITS – Geneva

First informal joint meeting WP.1 – WP.29/GRRF – WP.29 /ITS/AD

The ad-hoc meeting aimed at an in-depth exchange of views and information exchange and discussed topics such as

- driver training,
- the regulatory process pace and
- secondary tasks performed by the driver during automated driving phases





Main activities on ITS in 2017



Ministerial resolution in February 2017

(70th anniversary of UNECE/ITC)
Commitment to embracing and promoting technological changes in all inland transport modes, specifically by further integrating Intelligent Transport Systems and automated driving



• UNECE/ITU Symposium on The Future Networked Car

The symposium examined advances in the area of connected vehicles, from the perspectives of business, technology and regulation
Technical sessions highlighted the relevance of work done on Artificial Intelligence and Cyber Security

• UNECE / NHTSA / IFSTTAR Workshop on the Governance of Traffic Safety in an Automated Vehicle Environment



Experts in traffic and vehicle safety shared and explored best practices and ideas on the proper intergration of automated vehicles in traffic





