Shaping the SDG on Transport for the post-2015 development agenda

Global Consultation for Decision-Makers on Implementing Sustainable Transport

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George Georgiadis, Secretary, Inland Transport Committee
September 26, 2013
UN transport conventions
United Nations Economic Commission for Europe
Transport Division

SAFE AND SECURE
ENVIRONMENTALLY FRIENDLY
EFFICIENT
COMPETITIVE
TRANSPORT

- INLAND TRANSPORT (ROAD, RAIL, INLAND WATER, INTERMODAL - INFRASTRUCTURE AND SERVICES)
- TRANSPORT OF DANGEROUS GOODS

- REGULATORY
- ANALYTICAL
- CAPACITY BUILDING
- POLICY DIALOGUE

- NATIONAL
- REGIONAL
- INTER-REGIONAL
- GLOBAL

With impact on daily life of people and businesses
Explain 70% of variation in living standards in the world
# Trend drivers for future mobility

<table>
<thead>
<tr>
<th>Global mega-trends (7)</th>
<th>Technological innovations</th>
<th>Global policy considerations</th>
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<tbody>
<tr>
<td>e.g. combined impact of demographic changes, urbanisation and political power shifts</td>
<td>e.g. ITS may lead to institutional changes in transport sector management</td>
<td>e.g. UN Decade of Road Safety - safe vehicles e.g. Climate Change mitigation</td>
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Responses to the Road Safety Crisis

SPECTRUM OF ROAD SAFETY ACTIVITIES

UNECE ROAD SAFETY

WP.29

SC.1


AETR

TEM

AGR

Conventions 1949 & 1968

UNECE ROAD SAFETY

WP. 1

WP. 5

WP. 15

Statistics

Transport Economic Trends

Level Crossings

SC.2
Challenges in Transport, Health and Environment ⇒ THE PEP

- Demand for mobility
- Shrinking space
- Wish to live well and longer

THE PEP priorities:
- Integration of E&H aspects in transport policies
- Transport management towards sustainable mobility
- Urban transport
- Transition countries and sensitive areas

What is THE PEP:
- Tri-partite policy framework for a larger Europe integration of environment and health concerns into transport policy
- Transport, health and environment are on equal footing
- Integrated and holistic approach
- Air pollution, climate change, noise, injuries, nature and landscape effects, physical inactivity, psychosocial effects

THE PEP mechanisms and tools:
- Relay race
- THE PEP Clearing House
- Toolbox
- National Transport, Health and Environment Action Plans
- Partnerships
Responses to climate change challenge

UNECE WP.29 (2008) - a possible strategy for climate change mitigation:

2015. 30% increase of energy efficiency of all new vehicles with the current combustion engine technology

2020. Full introduction into the global market of new environmentally friendly vehicles (e.g. plug-in hybrid electric vehicles, hydrogen and fuel-cell vehicles)

2040. Full introduction into the global market of electric vehicles
Greener than it looks

EVOLUTION OF EMISSIONS OF M1 VEHICLES IN EUROPE

UN/ECE Regulations

Particulates
NOX
HC
CO
Assessing the CO$_2$ emissions from inland transport

1. Global project: 2011-2013
2. Status Report
3. Data collection recommendations
4. Review of existing tools
5. Uniform methodology for the monitoring of inland transport CO$_2$ emissions
6. Transport Policy Converter
7. Pilots
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ForFITS model: simplified

- Passenger transport system characteristics
  - Base year: vehicles, travel and loads
  - Projections: structural information

- Freight transport system characteristics
  - Base year: vehicles, travel and loads
  - Projections: structural information

- Gross Domestic Product
  - Population (base year and projections)

- Energy consumption
- CO₂ emissions

- Fuel characteristics (cost): ASIF
- Fuel characteristics (emission factors): extended ASIF

- Policy inputs

- Vehicle characteristics (cost), performance) by powertrain

- Transport activity (pkm, tkm, vkm) and vehicle stock
- Volumes by age and powertrain
- ASIF

- Passenger transport demand generation module
  - Freight transport demand generation module

- Gross Domestic Product Population (base year and projections)
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Pillars of sustainable transport development

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<tr>
<th>Access</th>
<th>Affordability</th>
<th>Safety and Security</th>
<th>Environmental</th>
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Picture of Investment Finance after the MDGs
Thank you for your attention