

77th Session

INLAND TRANSPORT COMMITTEE

ForFITS UNECE-wide implementation Status report

Mitigation of environmentally harmful effects of inland transport Item 4 (b) (ii)





- Developed under the framework of a United Nations Development Agency (UNDA) project implemented from 2011 to 2013
- Projects transport activity, energy use and CO₂ emissions under different policy scenarios
- Currently applying model to UNECE region as follow-up to UNDA project





Status/Challenges

- Provisional results from 22 member States
 - > 11 member States which returned questionnaires
 - 11 member States with high levels of available data or subjects of previous ForFITS studies
- 56% of population and 77% of GDP (PPP) for UNECE region in 2012
 - > Biased towards member States with high data availability
 - > Lack of data in remaining member States pose difficulties
- Data gaps for all member States
 - Vessel and aircraft data
 - > Average annual travel, load and fuel consumption

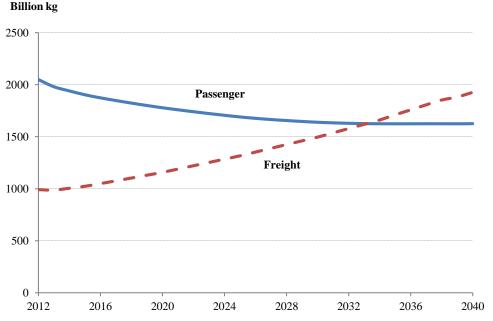




Provisional Results

Projected well-to-wheel CO₂ emissions from inland transport to 2040

- > 90 % increase in freight
- > 20 % decrease in passenger



- Population growth < economic growth</p>
- Fuel efficiency improvements
- Saturation of passenger car market in high-income countries



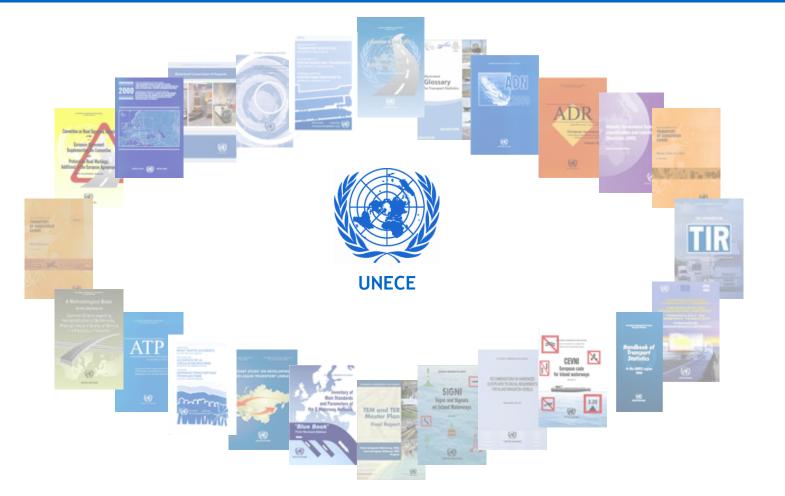


- Consolidating the current functionality
 - Technical review of analysis to-date
 - Baseline projections for remaining member States
- Adding functionality focused on assessing the effects of different policy decisions on CO₂ emissions
 - Provide results to inform decisions by Member States on transport policies relating to transport activity and CO₂ emissions
 - Scenarios to be modelled will be identified after further discussion over the next months.
- Questions? ForFITS@unece.org





Thank you for your attention







Backup - Why use ForFITS?

- Today What is the current annual level of transport CO₂ emissions in a country? Transport system characterized by inputs including:
 - Vehicle stock, annual vehicle travel, average fuel consumption, average vehicle load, breakdown of powertrain types in current fleet
- Tomorrow How will the level of transport CO₂ emissions change in the next decades in a country? Adjustable inputs include:
 - GDP and population growth
 - Fuel taxation schemes
 - > Modal shift (eg shift to public transit)
 - Usage of biofuels
 - Technology improvements





Backup - Acronyms and Definitions

- GDP Gross Domestic Product
- For Future Inland Transport Systems
- **PPP** Purchasing Power Parity
- UNDA United Nations Developed Agency
- Well-to-wheel CO₂ emissions both from vehicle operation and from production and distribution of fuel used for operation





Backup - Member States analyzed

Member States		
Austria*	Belgium*	Canada*
Czech Republic*	Denmark	 Finland*
France	• Georgia	Germany
Hungary	 Ireland* 	• Italy
Latvia	 Lithuania* 	 Montenegro
Netherlands*	 Norway 	Poland
Slovakia*	Slovenia	 Switzerland*
United States		

Member States which submitted questionnaires highlighted in **red bold** Bulgaria also submitted a questionnaire and will be included in the next round of analysis

