ITC acting on climate change adaptation and mitigation

Informal document No. 3
Update on For Future Inland Transport Systems (ForFITS) activities
Internal ForFITS tool application
- ECE Environment Performance Review (EPR) of Azerbaijan
- ECE EPR of Armenia
- Car Pooling / Car Sharing in Central Asia

ForFITS outreach
- UNECE involved in the Transport Data Commons initiative
- UNECE as knowledge partner to the MobilizeYourCity partnership
In Azerbaijan, 2050 scenario would in the best case reduce GHG emissions by around 10% from 2020, and more than 40% compared with reference scenario in 2050.

To achieve this, recommendations include:
- Link fuel prices with their carbon content
- Further develop passenger mass transportation and active mobility networks
- Dedicated provision on the import of low-CO2 used vehicles, based on ECE legal instruments

**Well To Wheel CO₂ emissions by mode, all scenarios in 2050, MtCO₂**

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**Internal application of ForFITS tool**
with the environment division of UNECE – Environment Performance Review in Azerbaijan
In Armenia, historical data identification was challenging, little available evidence shows that:

- Freight CO2 emissions increases faster than passenger in all scenarios
- CO2 Emissions can be reduced by around 25% between 2020 and 2050 in the most ambitious scenario where all Avoid/Shift/Improve measures are implemented.

To achieve this, recommendations include:

- Consolidate public transport routes to allow shifting from minibuses towards larger buses or urban/regional rail
- Shift from road freight to rail freight (esp. where electric lines are available)
- Consider retrofit kits to improve energy efficiency with co-benefits on air quality
Looking at the CO2 emissions reduction potential in Kazakhstan, Kyrgyzstan and Tajikistan and for the cities of Bishkek, Nur-Sultan and Dushanbe

**Car Sharing schemes**
- Impact depends largely on average car ownership
- For car-owning households, potential reduction of around 10% CO2 emission when subscribing to car sharing scheme
- For non-car-owning households, might increase CO2 emissions by around 10% (with co-benefits on accessibility)

**Car Pooling schemes**
- Potential to reduce CO2 emissions by up to 30% for intercity trips

**To maximise emission reduction:**
- Car sharing schemes to target car owners living in cities
- Car pooling to focus on intercity journeys, where detour and delays for additional passengers is minimal
Following decision 35 from the 84th session of ITC, which “...supported the proposed approach in order to further develop ForFITS, sustain its use internally, develop partnerships with other modelling groups...”

Collaboration between many transport data users, data collectors and transport project implementers to have open transport data in a unique place: The Transport Data Commons

Key features of the Transport Data Commons will include free, publicly available, centralized and transparent data access:
- intuitive, state-of-the-art data visualization
- data imports and export capabilities

The initial focus will cover transport and climate change, but it may be expanded to air quality and road safety at a later stage

Prototype website to be launched Q2 2023 to approach potential funders
- UNECE as a potential host of the prototype website
The MobiliseYourCity Partnership aims to empower 100 cities and 20 countries to improve urban mobility for their citizens and decarbonise transport to fight the global climate crisis.

MobiliseYourCity Partnership offers methodologies and capacity building through communities of practice
- The MobiliseYourCity Emissions Calculator which supports cities and countries project the GHG Impact of their sustainable urban mobility plans (SUMPs) and national urban mobility policies and investment programs (NUMPs)
- ForFITS invited to review and provide in-depth comments to the latest version of the MobiliseYourCity Emissions Calculator.

ForFITS to potentially join the MobiliseYourCity Partnership as a knowledge partner
- Existing knowledge partners include institutions such as UN Habitat or the Institute for Transportation and Development Policy (ITDP).
- More info: https://www.mobiliseyourcity.net/mobiliseyourcity-emissions-calculator
Actions of the inland transport sector to join the global fight against climate change

Thank you!

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Mechanical Engineer

UNECE
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