



Actions of the inland transport sector to  
join the global fight against climate change

85<sup>th</sup> Session

**INLAND TRANSPORT COMMITTEE**



**UNECE**

# **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

# Internal application of ForFITS tool

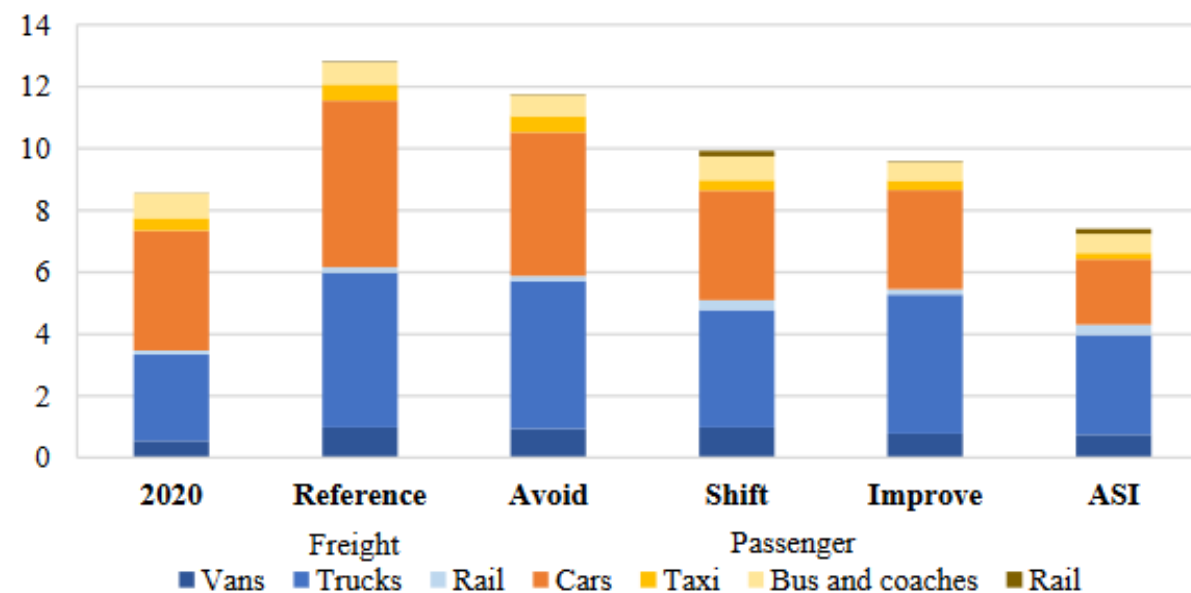
with the environment division of UNECE – Environment Performance Review in Azerbaijan



- 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 CO<sub>2</sub> emissions by mode, all scenarios in 2050, MtCO<sub>2</sub>



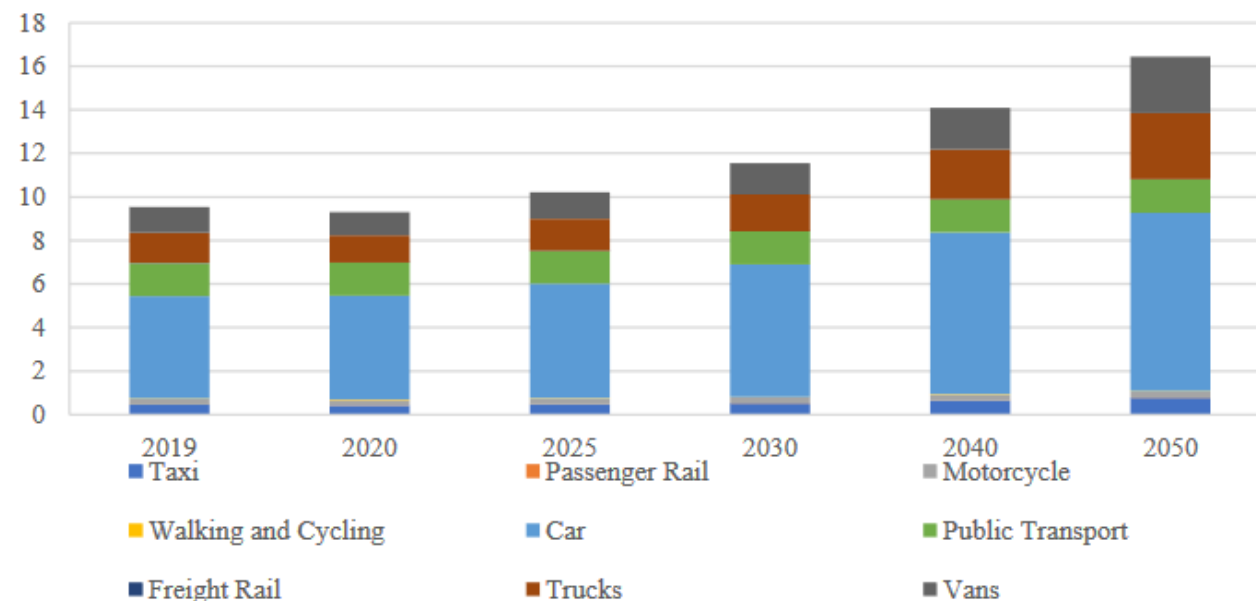
# Internal application of ForFITS tool

with the environment division of UNECE – Environment Performance Review in Armenia



- 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

Traffic activity by mode under reference scenario, 2020–2050, Million vehicle.km/year

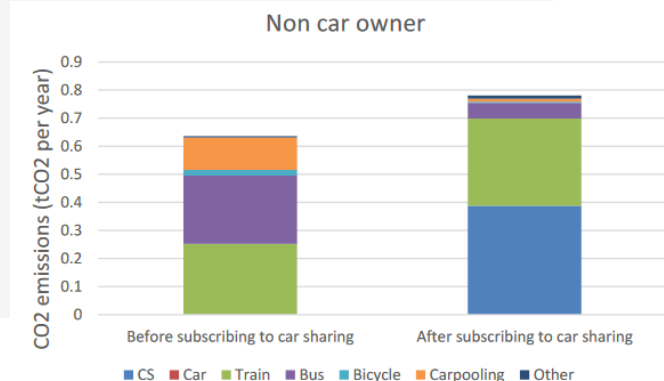
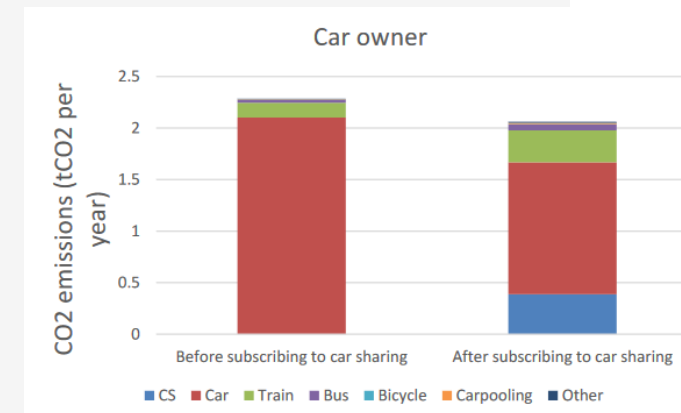


# Internal application of ForFITS tool

## Car Pooling / Car Sharing in Central Asia



- 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



# ForFITS outreach

## UNECE involved in the Transport Data Commons prototype



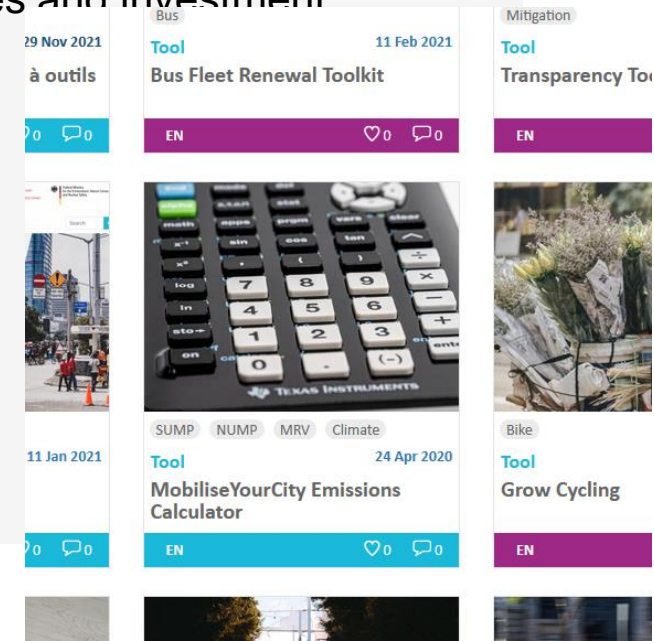
- Following decision 35 from the 84th session of ITC, which “...supported the proposed approach in order to further develop ForFITS, sustain its use internally, develop partnerships with other modelling groups...”
- Collaboration between many transport data users, data collectors and transport project 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

# ForFITS outreach

UNECE/ForFITS in discussion to become Knowledge Partners of the MobiliseYourCity Partnership



- The MobiliseYourCity Partnership aims to empowers 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>





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**Thank you!**

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