INLAND TRANSPORT COMMITTEE

SUSTAINABLE TRANSPORT

UNECE

# Climate change

ECE/TRANS/2022/17

Ten years of ForFITS implementation

# ForFITS implementation and use

## Over the years

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- Implementation of ForFITS since its finalization
- ForFITS outreach, online presence and visibility
- ForFITS funding
- Next steps: Model developments strategies

# Internal application of ForFITS

## In the transport, environment and energy divisions of UNECE

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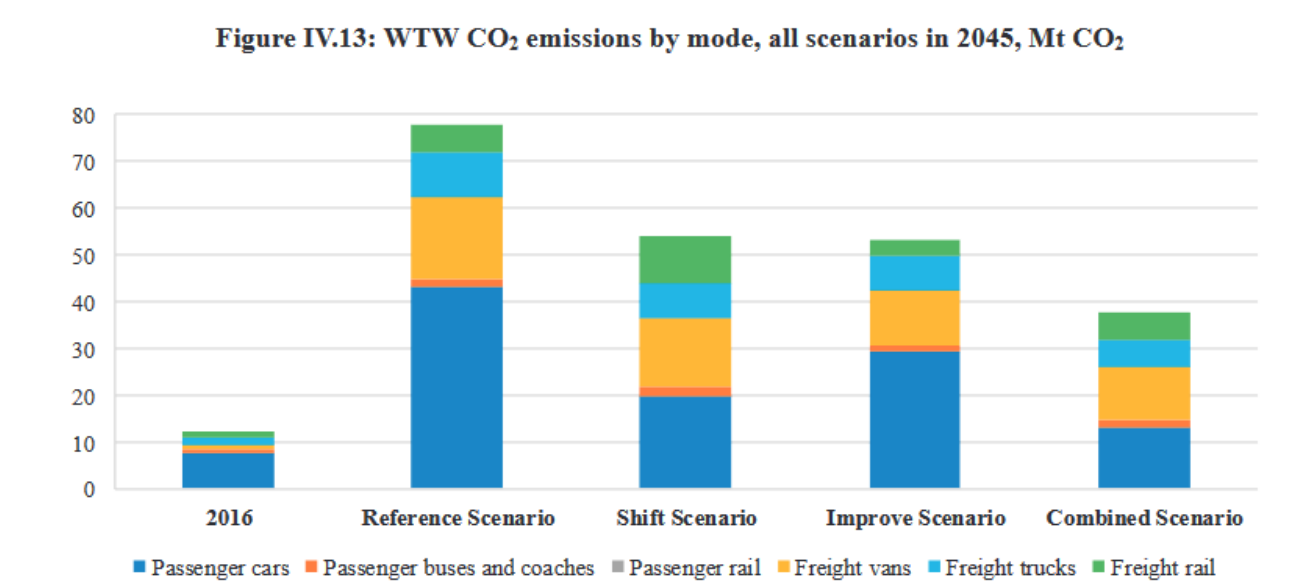
- Main regular application as part of the Environmental Performance Reviews (EPRs) of the ECE Environment Division;
  - 4 Applications to date: 2015 (Belarus), 2016 (Georgia and Tajikistan), 2017 (Albania) and 2019 (Uzbekistan)
  - 2 on-going: 2021/2022 (Azerbaijan), 2022 (Armenia)
- Example, long term scenarios $CO_2$ emission projection in Uzbekistan, 2016- 2045



# Internal application of ForFITS

## In the transport, environment and energy divisions of UNECE

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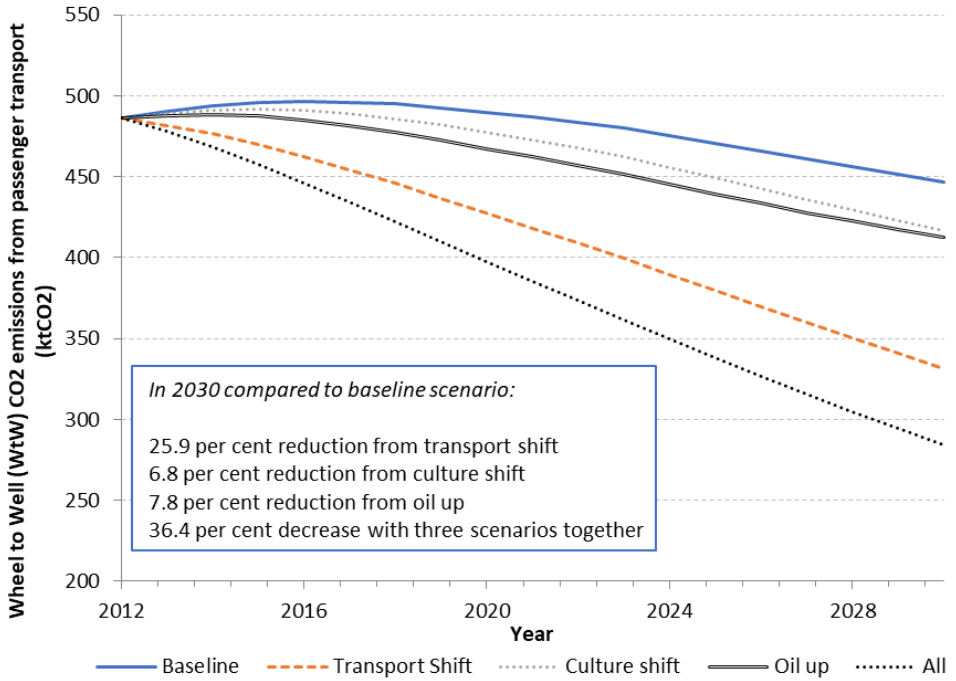
Internal activities in the transport division;

- ECE Study 2016 (Informal document ITC (2016) No.13)
- Inclusion of Non-Road Mobile Machinery feasibility study
- THE PEP studies, Lithuania, Kaunas and Mannheim
  - Example, Passenger transport CO2 emissions in Kaunas, 2012-2030



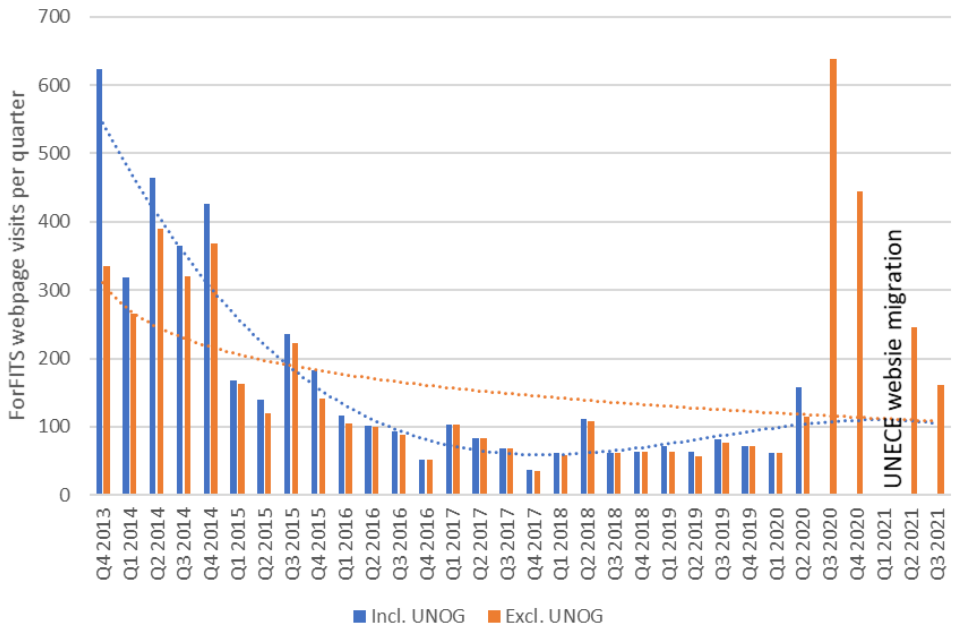
# External use and on-line visibility of ForFITS

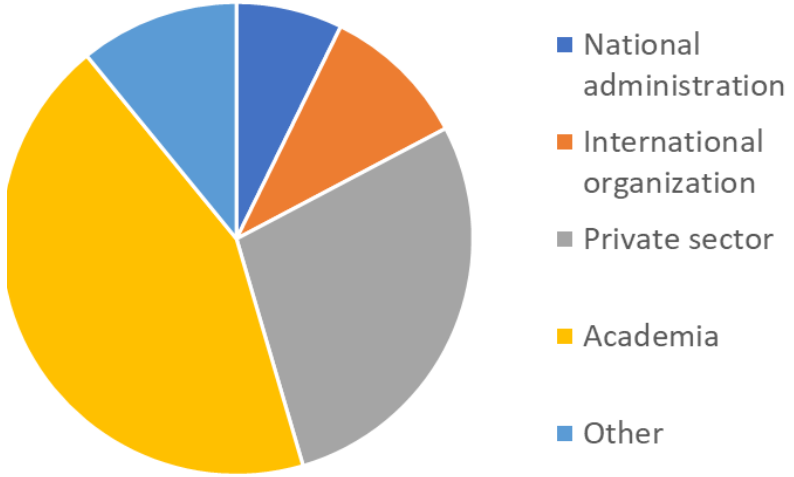
## For any stakeholder

- ForFITS publicly available since its inception
- Survey put in place since 2019 to monitor external downloads
- More than 100 person / institutions have downloaded ForFITS since 2019
- Gender dimension also tracked

  60% male
  40% female

- Website audience



# ForFITS outreach

## Activities with other groups working on transport and energy modelling

- ForFITS a member of the International Transport Energy Modeling partnership (iTEM) since 2018
- ForFITS also involved in the Energy Demand changes Induced by Technological and Social innovations (EDITS) network
- ForFITS has become an Intergovernmental Panel on Climate Change (IPCC) registered model for the inception of the Assessment Report 6 (AR6)
- ForFITS has been invited to join the International Energy Agency (IEA) Mobility Model (MoMo) partnership

# Funding of ForFITS

## Limited resources hampered faster development

- Existing resources are limited
  - about 0.4 person.year, half of that in the last few years due to staff shortages, spread among two staff in different sections
  - Dedicated to internal applications and outreach
- Funds were made available to:
  - Look at the integration of construction machinery, tractors, …(Non-Road Mobile Machinery) into ForFITS
  - Perform local data collection efforts as part of the EPRs
- Other requests both on regular and extra budgetary have proved unsuccessful to date
- No funds have been allocated to maintain, further develop ForFITS
  - Potential loss of competitive hedge compared with other modelling groups

# Next steps: Model developments strategies

## Way forward for ForFITS

- Two-level strategy for future activities

1. With additional funding secured:
    1. Develop a ForFITS 2.0 simplified model for a broader audience,
    2. Develop additional features for ForFITS 1.0 on a modular approach or through a new modelling framework.
2. With no additional funding (using existing limited resources),
    1. carry on with the existing ForFITS model and internal use pattern and implementation of digital infographics / visuals to be used with digital component of ECE publications, when deployed
    2. continue the reach out strategy to closely collaborate with other modelling groups, partnerships and activities to mutualize resources and to maximize the added value of ForFITS

- ITC to support secretariat in fundraising for ForFITS

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# Thank you!

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