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Planning for sustainable transport policies – assessing CO_2 emissions

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Sustainable Transport Division, UNECE

THE PEP RELAY RACE CONFERENCE

Mannheim, 13-15 July 2016

TRANSPORT

The 2030 **A**genda and the **S**ustainable **D**evelopment **G**oals

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4 SDGs out of 17 are of particular importance for decarbonisation of transport

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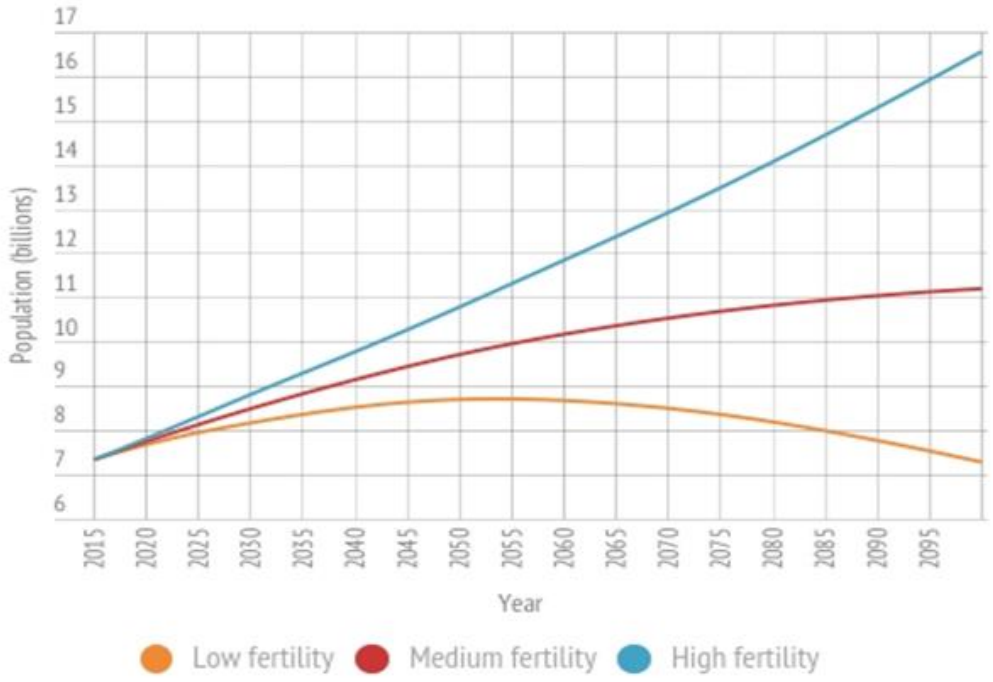
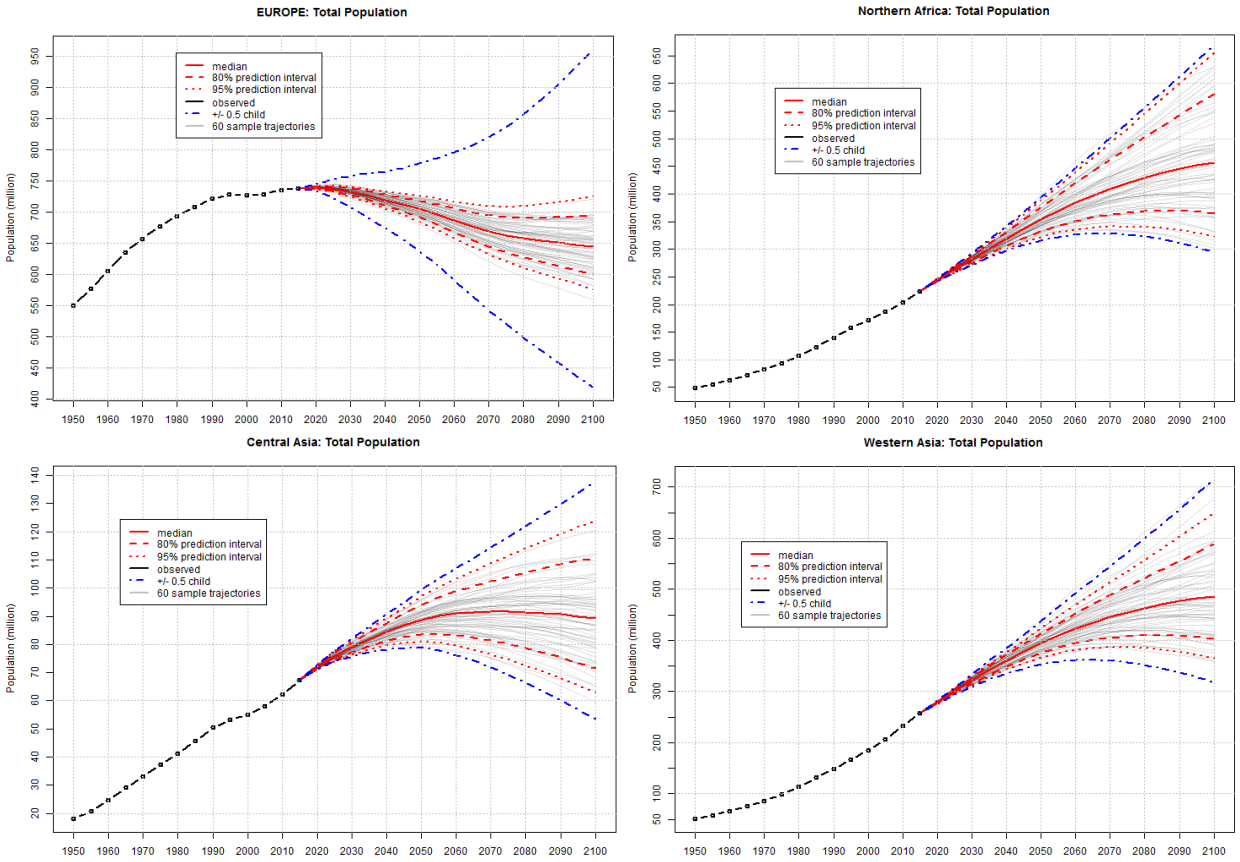
Megatreds: World population projections 2015-2100



Source: UN Population Division, World Population Prospects: The 2015 Revision.
Underlying data available at: https://esa.un.org/unpd/wpp/

Population and urbanization



Source: UN Population Division, World Population Prospects: The 2015 Revision.
Underlying data available at: https://esa.un.org/unpd/wpp/;
Graphs available at: https://esa.un.org/unpd/wpp/Graphs/Probabilistic/POP/TOT/

ForFITS model

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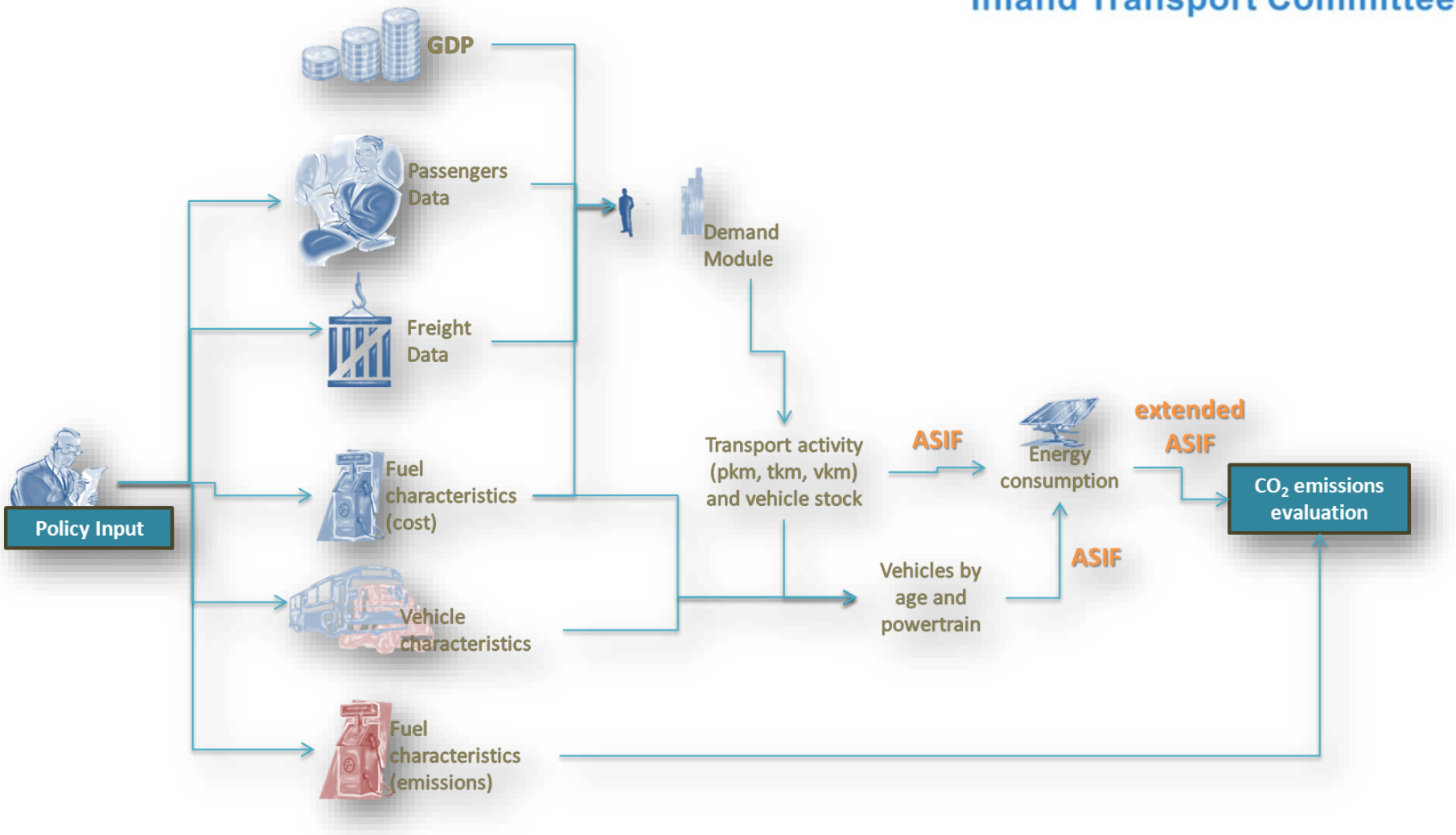

What does ForFITS do?

- 1. Allows the estimation/assessment of emissions in transport
- 2. Allows the evaluation of transport policies for CO_2 emission mitigation

Converts information on transport activity into fuel consumption and CO_2 emission estimates considering the influence of the demographic and socio-economic context, including policy inputs!

ForFITS at the regional level

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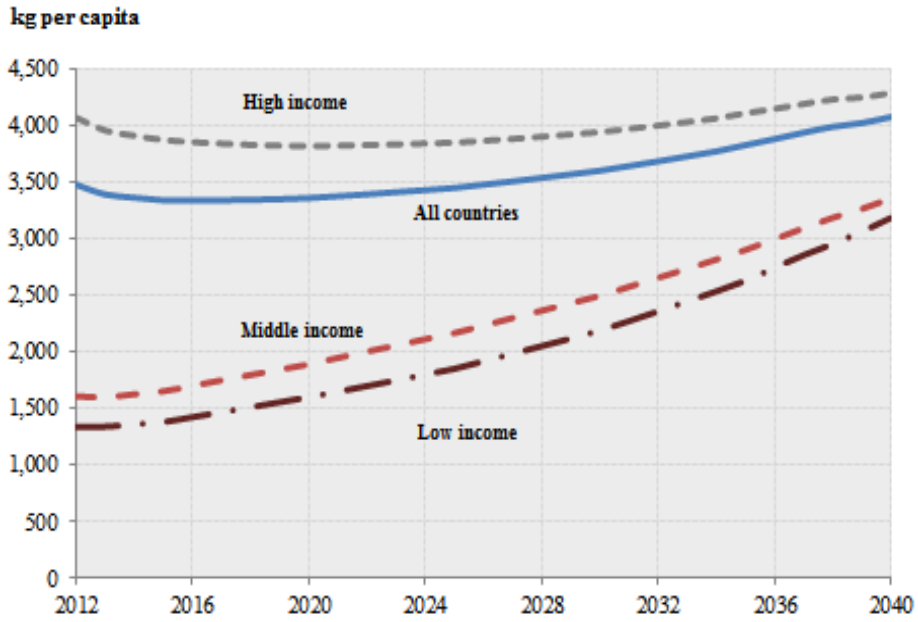
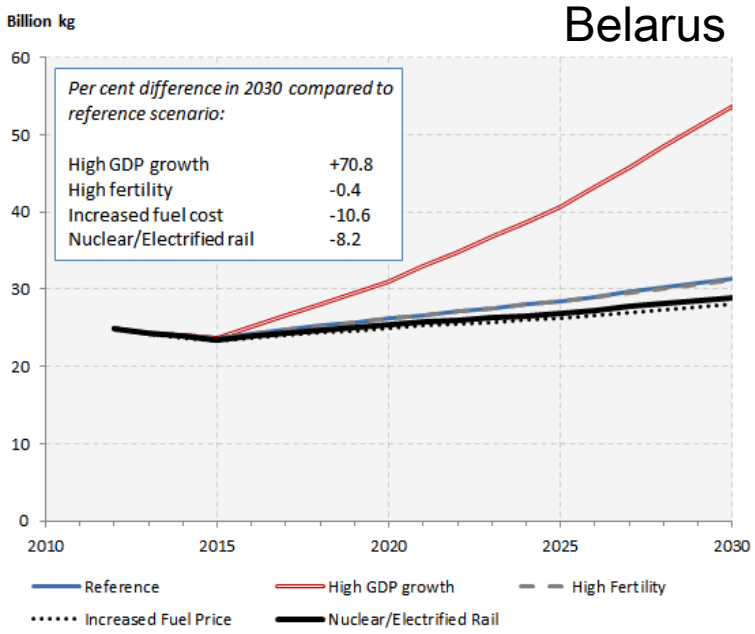
We support **regulatory push** combined with awareness for the environment and climate

- UNECE region success: decoupling of CO_2 and motorization growth
- But still significant emitter
- **UNECE MICs CO_2 emissions from inland transport will more than double by 2040 if no powerful interventions** *ForFITS model*

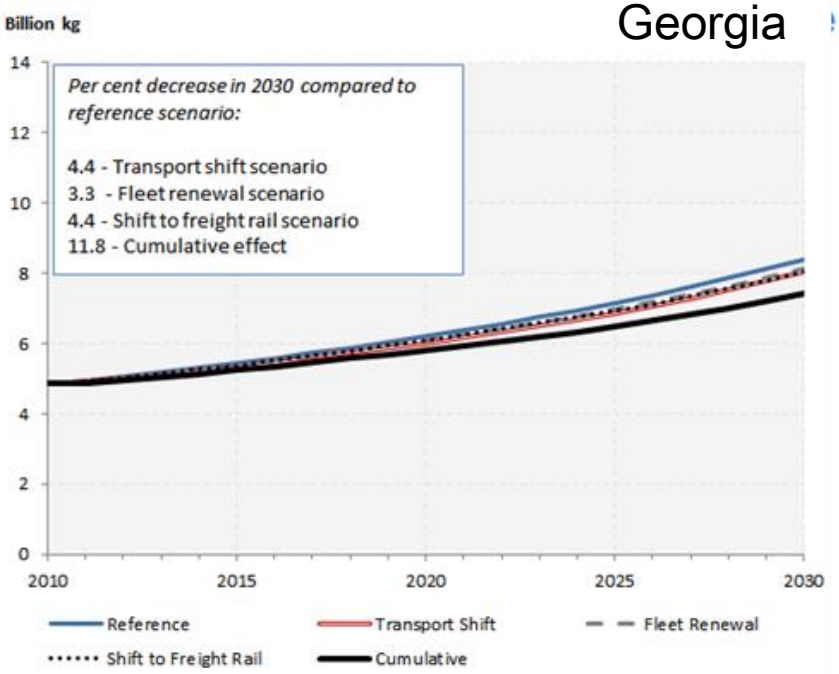


ForFITS at the country level

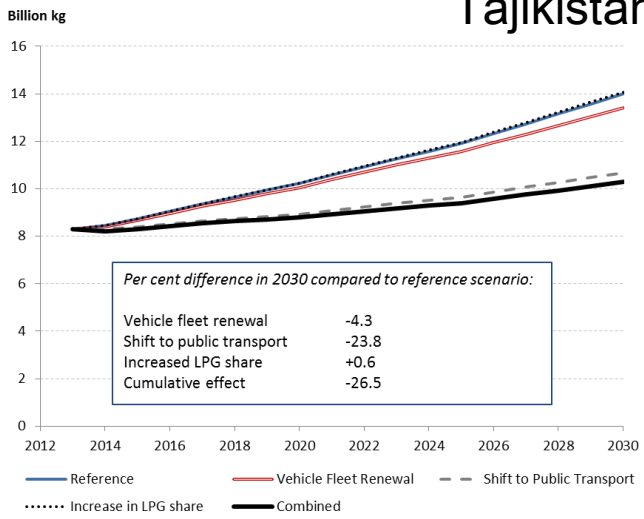
Belarus



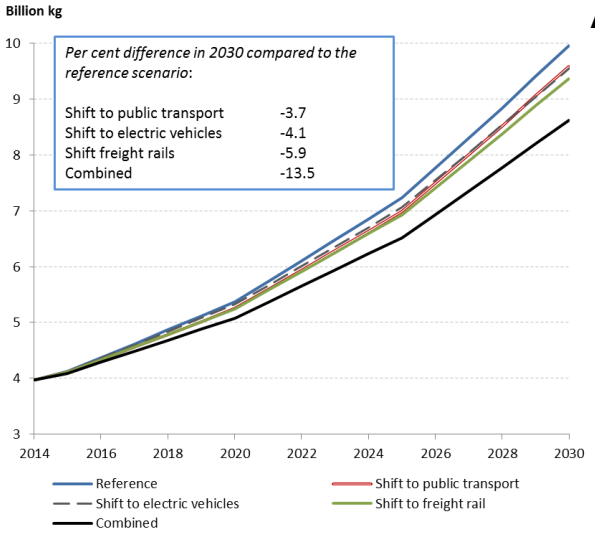
Georgia



Tajikistan



Albania



ForFITS at the city level
The case of Kaunas

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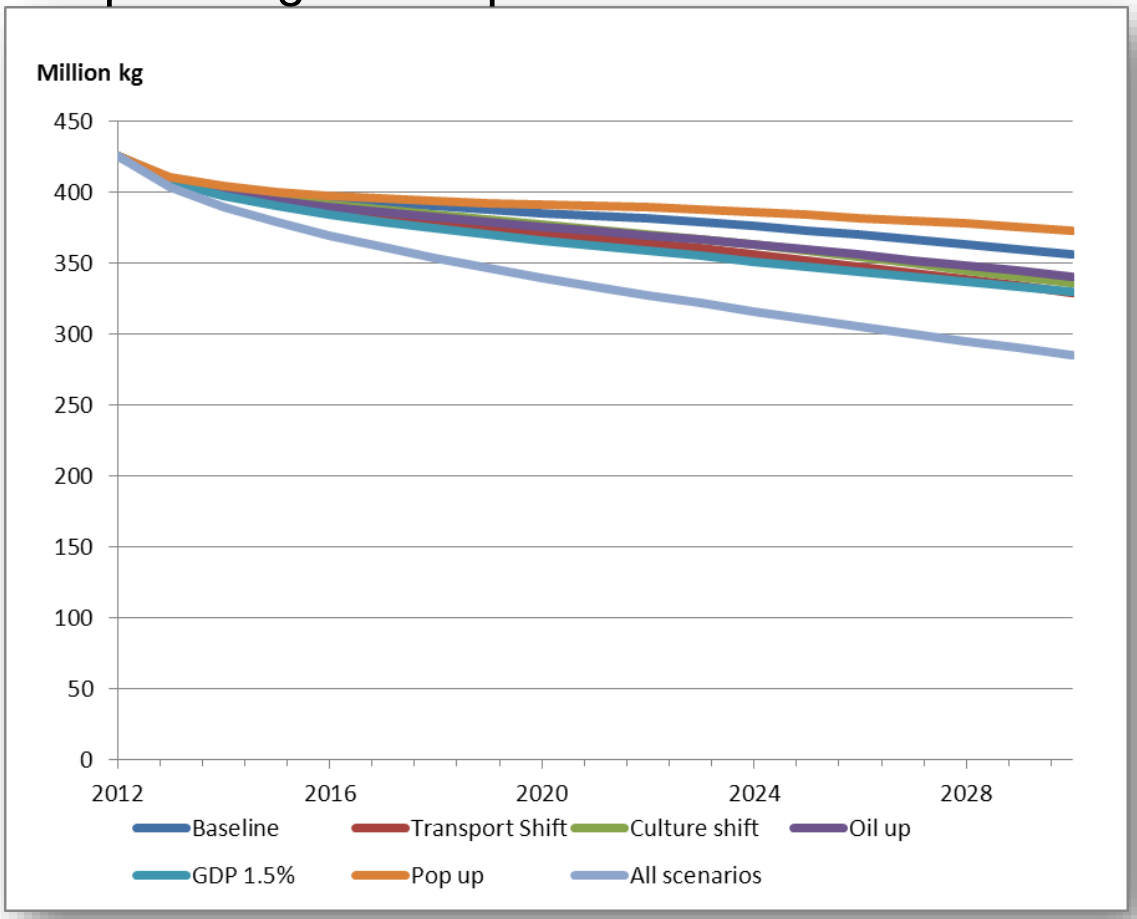
- Overall CO2 emissions from passenger transport under different scenarios

7.6 per cent reduction by 2030 from shifting transport
5.8 per cent reduction from culture shift
4.4 per cent reduction from oil up
7.3 per cent reduction from 1.5% GDP growth
4.6 per cent increase with high fertility
19.9 per cent decrease with all scenarios together



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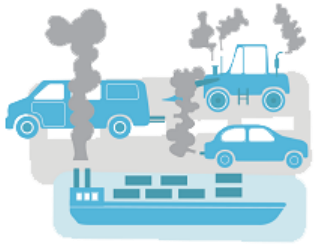
The implementation of ForFITS

in the City of Mannheim!

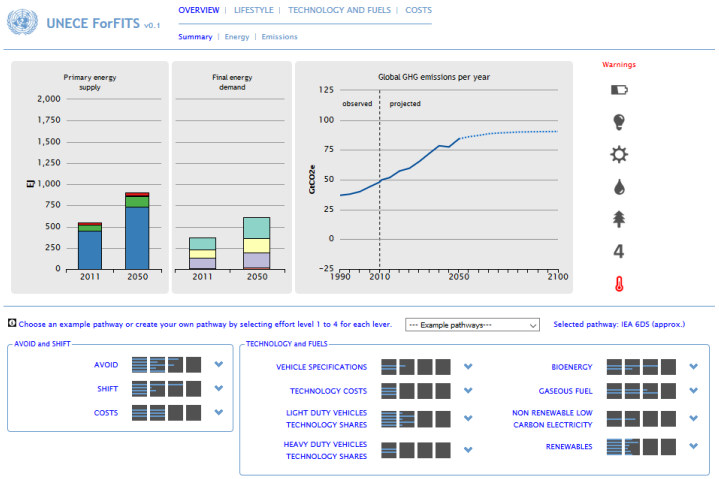
(forthcoming!)

New projects subject to fundraising

Extension of the scope:
Local pollutants and NRMM



New User Interface



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New projects subject to fundraising

Training sessions

Specific analysis

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