



# TFIAM46 + TF HTAP

Paris, 2-3 May 2017

Hosted by INERIS

Stefan Åström, Rob Maas (TFIAM)

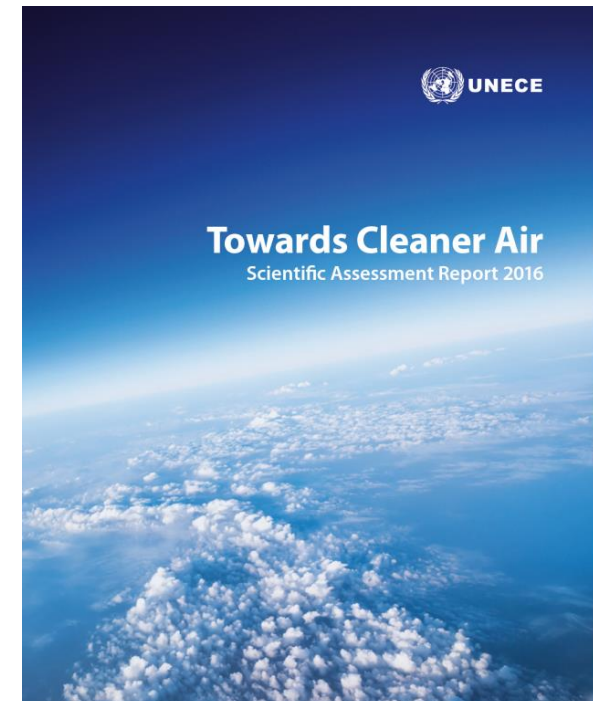
Terry Keating, Frank Dentener (TF HTAP)

# Scientific Assessment Report 2016

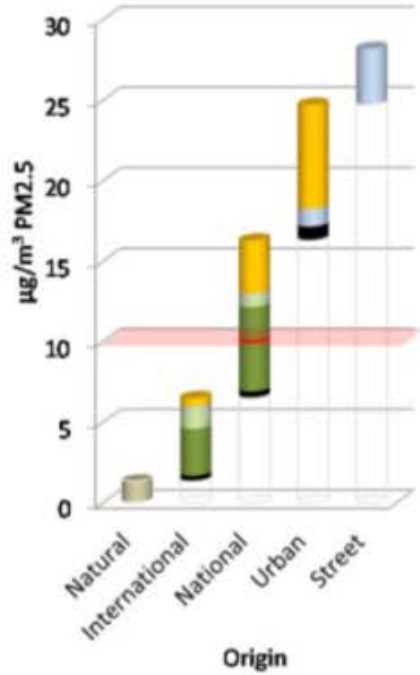
## Policy respons

Recommended shifts:

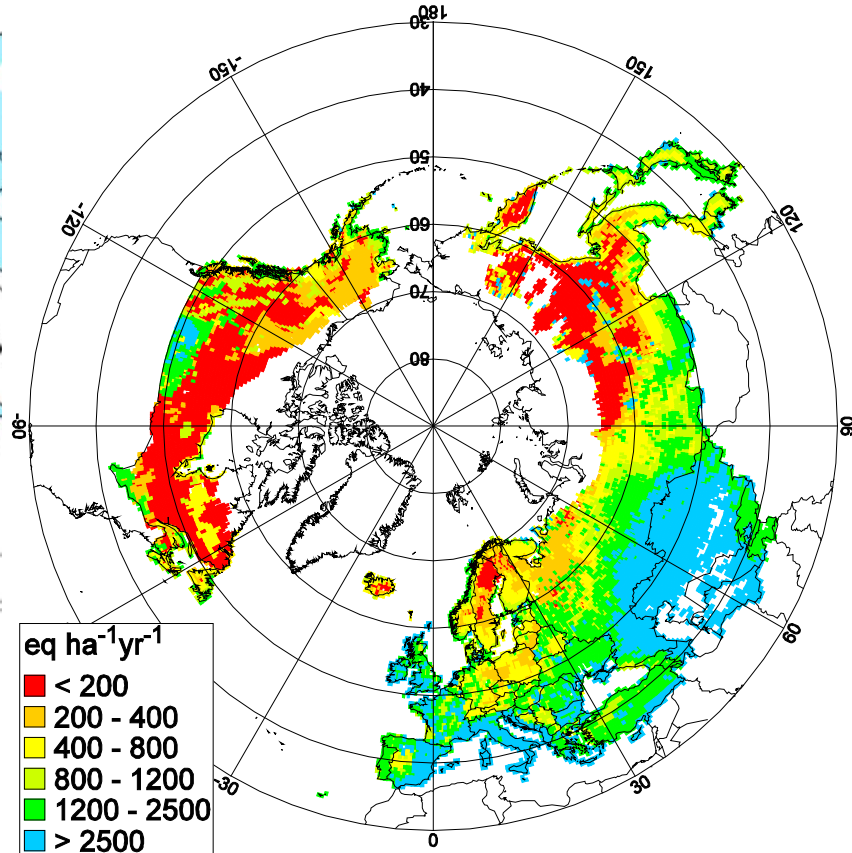
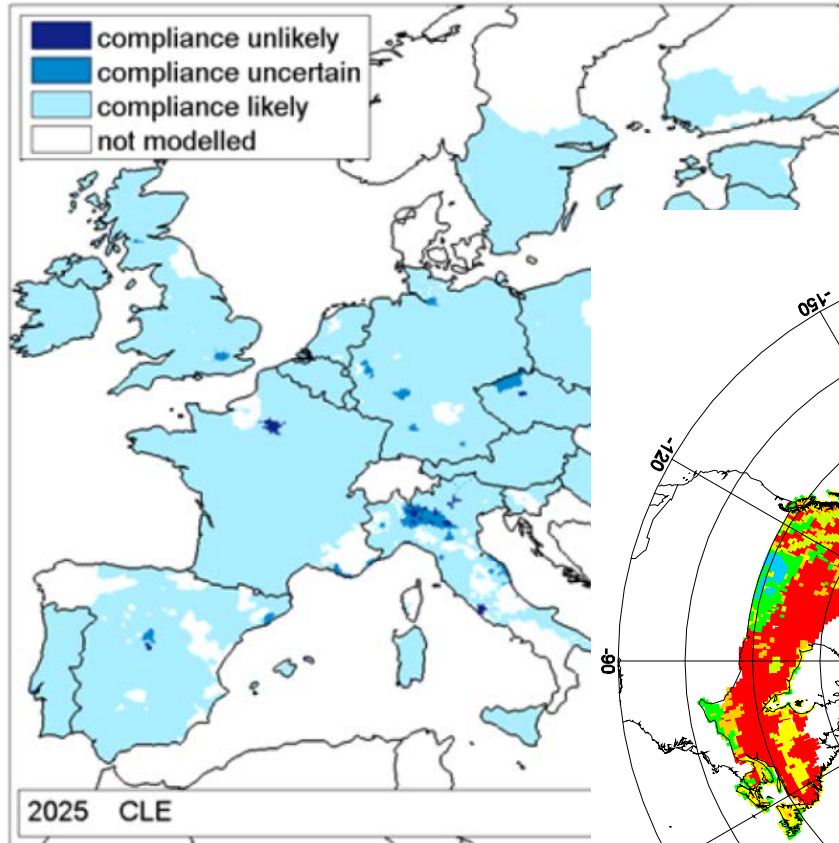
- a) Additional attention for ozone, black carbon & ammonia
- b) Integrated approaches for nitrogen policy, climate policy & air policy
- c) Increased cooperation with countries and organizations outside the ECE region



# Poland



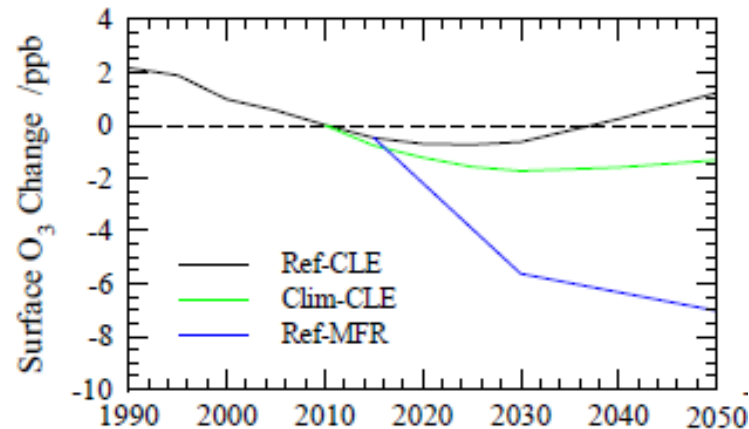
# TFIAM work plan: Integration across scales



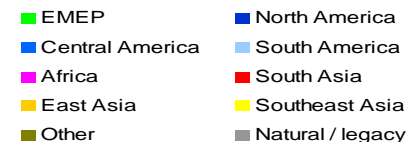
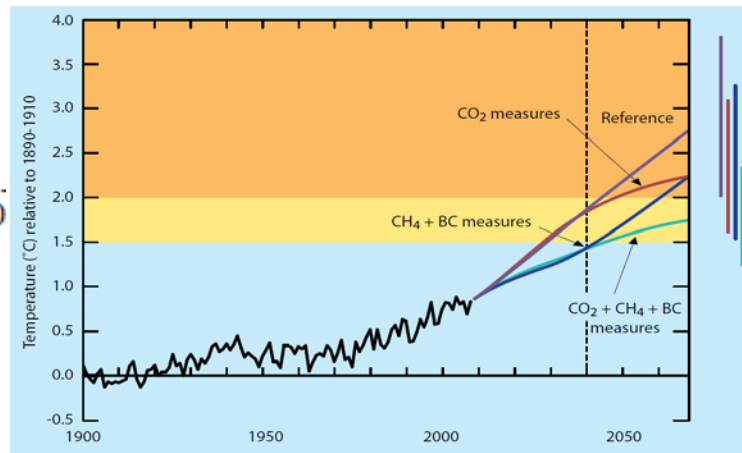
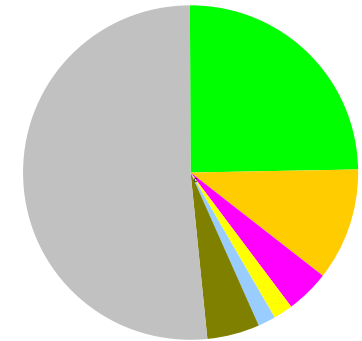
# Global air pollution issues

- Background ozone: including the role of CH<sub>4</sub>
- SLCPs: including Black Carbon and Arctic warming
- Heavy metals and POPs (Hg, HCBs, dioxines)

European Surface O<sub>3</sub>



Source of mercury deposition in EMEP countries



# Linkages between global, regional & local measures

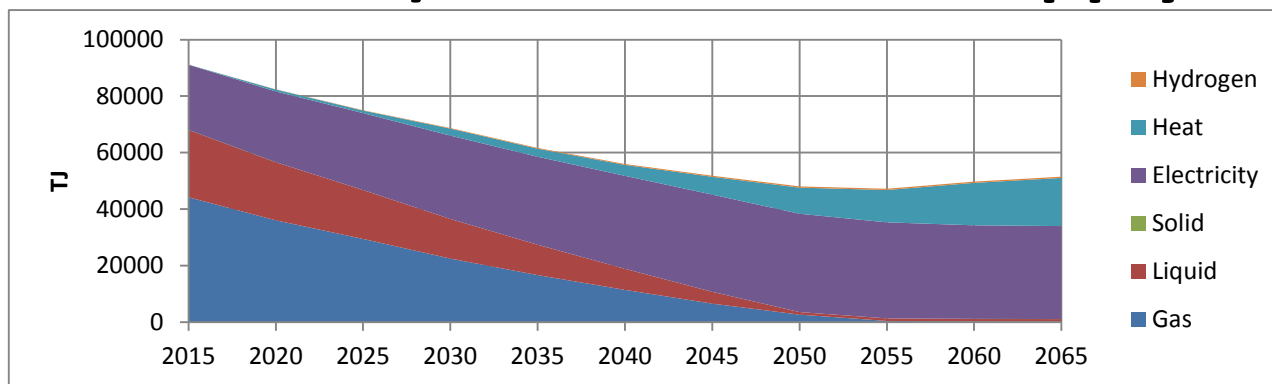
- Power supply
  - Heating
  - Transport
  - Shipping
  - Airplanes
  - Agriculture
- Less carbon, less air pollution
- Higher efficiency, dietary changes  
less emissions of  $\text{NH}_3$ ,  $\text{N}_2\text{O}$  &  $\text{CH}_4$

*Act locally - Think globally*

# Scenario (west Midlands)– demand and supply

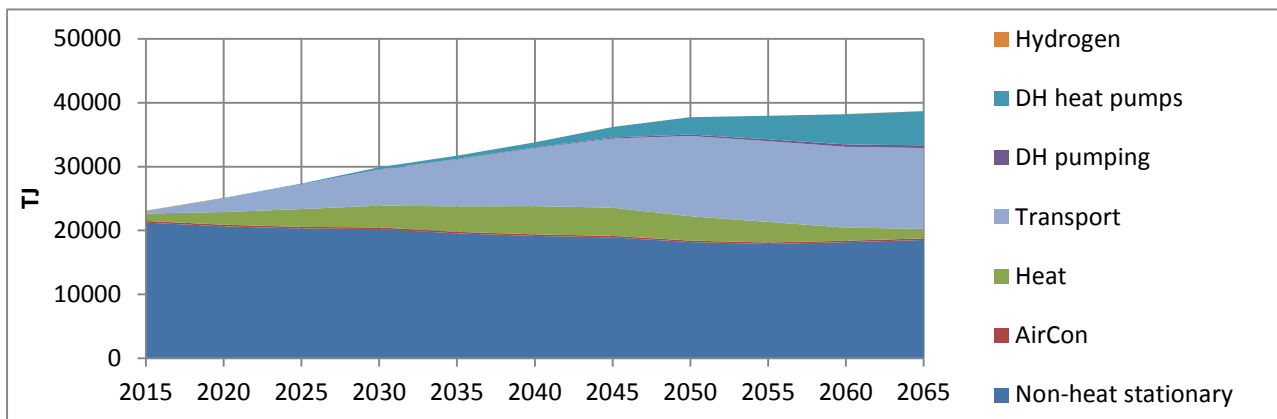
## Deliveries

Shift from fossil gas and oil to electricity and DH



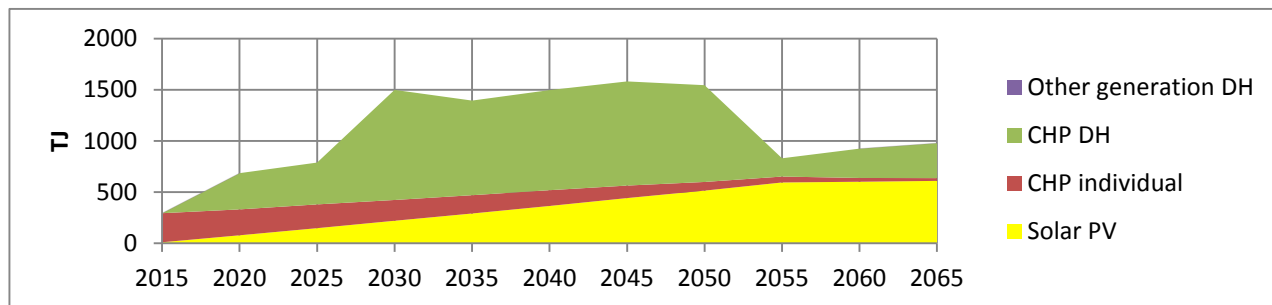
## Electricity consumption

Increase for heating and transport

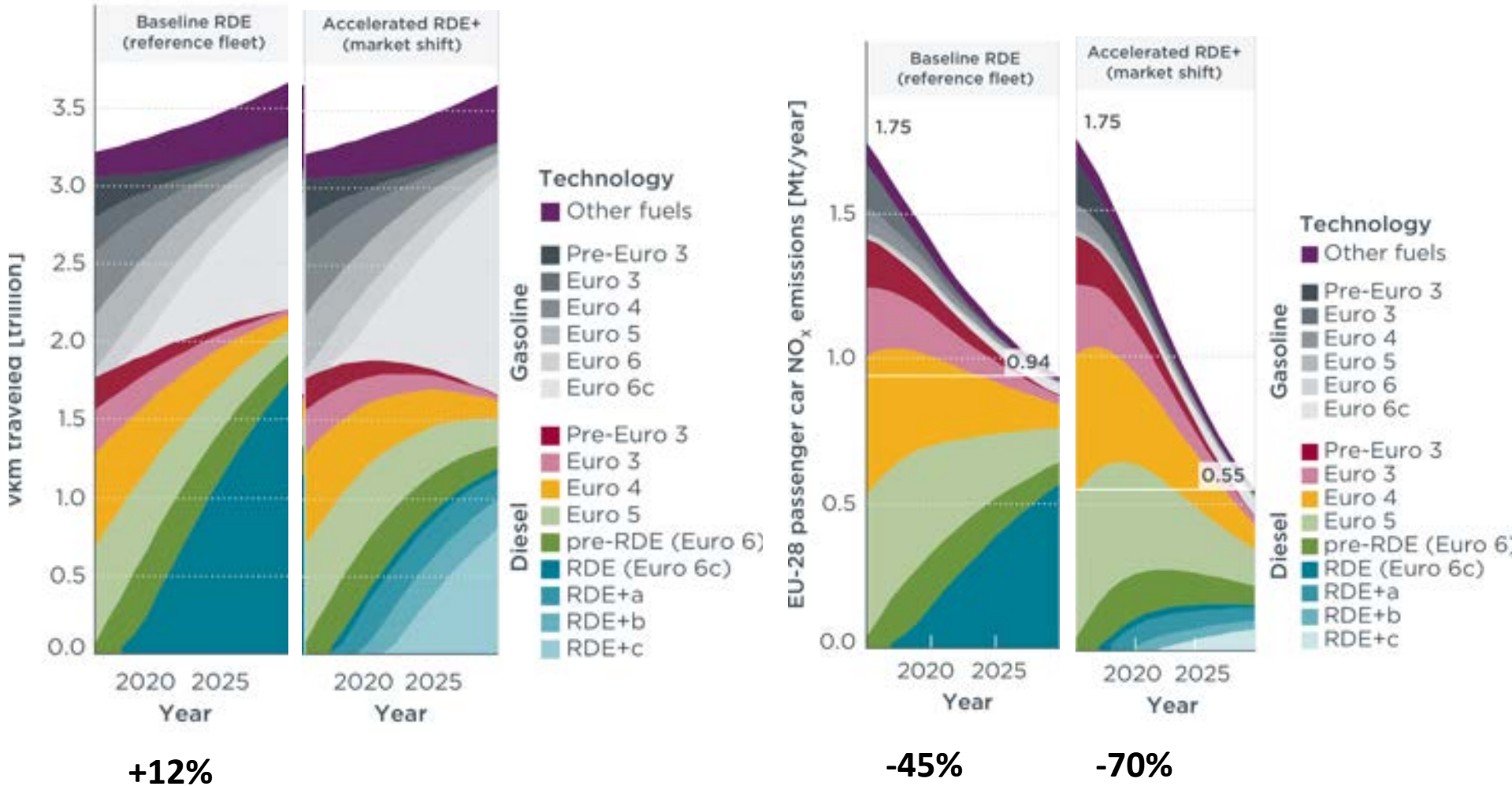


## Electricity generation

Steady increase in solar PV and initial increase in CHP

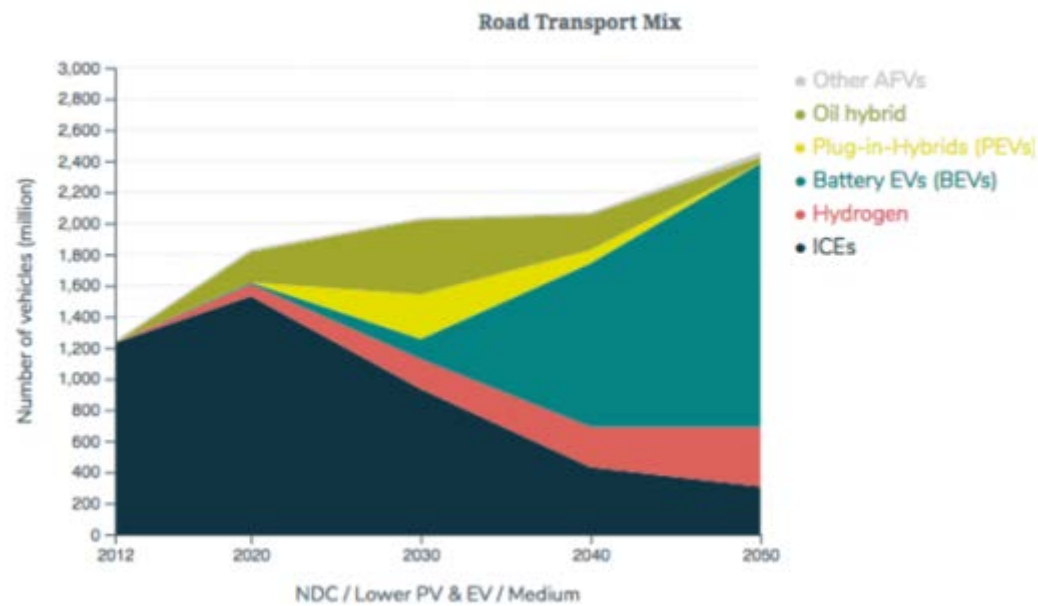


# Future EU28 car fleet 2015-2030

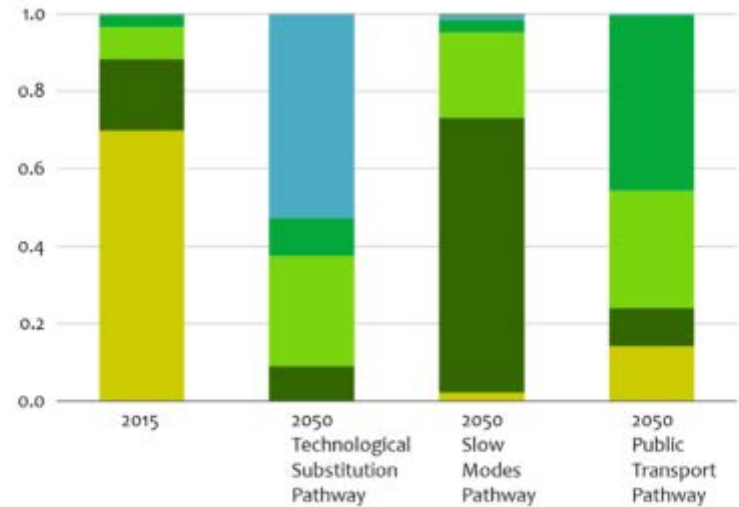


# Alternative futures

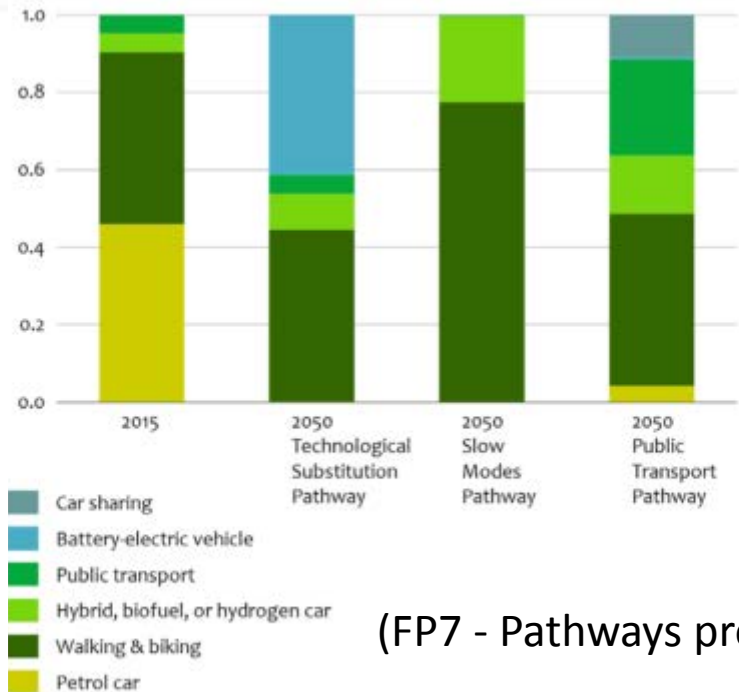
- Carbon neutral cars
- Shift to slow modes
- Shift to public transport



United Kingdom



The Netherlands



(FP7 - Pathways project)



# What we would like to achieve in this meeting

*In order to develop cost-effective policy strategies:*

1. Assess status of models (GAINS, FASST, etc)
2. Assess available scenarios (between CLE and MFR)
3. Define “policy packages or measures” to be explored further
4. Learn from national/regional/sectoral analyses
5. Define further cooperation of TFIAM and TF HTAP – what, how, who

# Bearing in mind linkages with ...



# Introduction to the Agenda

A. General introductions

## **HTAP special session**

B. Introductions by Terry, Markus, Rita, Max

C. Available sectoral/regional scenarios CCAC, SSP, ICCT, OECD, ...

D. Discussion on future scenario work – what, how, who

E. Updates on trends in Ozone, HTAP-modelling work

## **TFIAM session**

F. National integrated scenarios for GHG/CH<sub>4</sub> & air pollutants.....

G. Updates on costs and benefits

H. Report