

Welcome to the workshop on

“Robustness and legitimacy of models for climate policy assessment”

26-27 May 2020

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NAVIGATE objective:

Develop the next generation of integrated assessment models that can support the design and evaluation of EU and international climate policies and inform the alignment of climate action with SDGs.

How?

- Increase transparency & usability
- Improve representation of transformative change (economy, technology, behaviour)
- Bring in the „people“ perspective in addition to the systems perspective



Work plan

Useability & Outreach

- Increasing transparency, legitimacy, and usability of IAMs
- Synthesis & dissemination

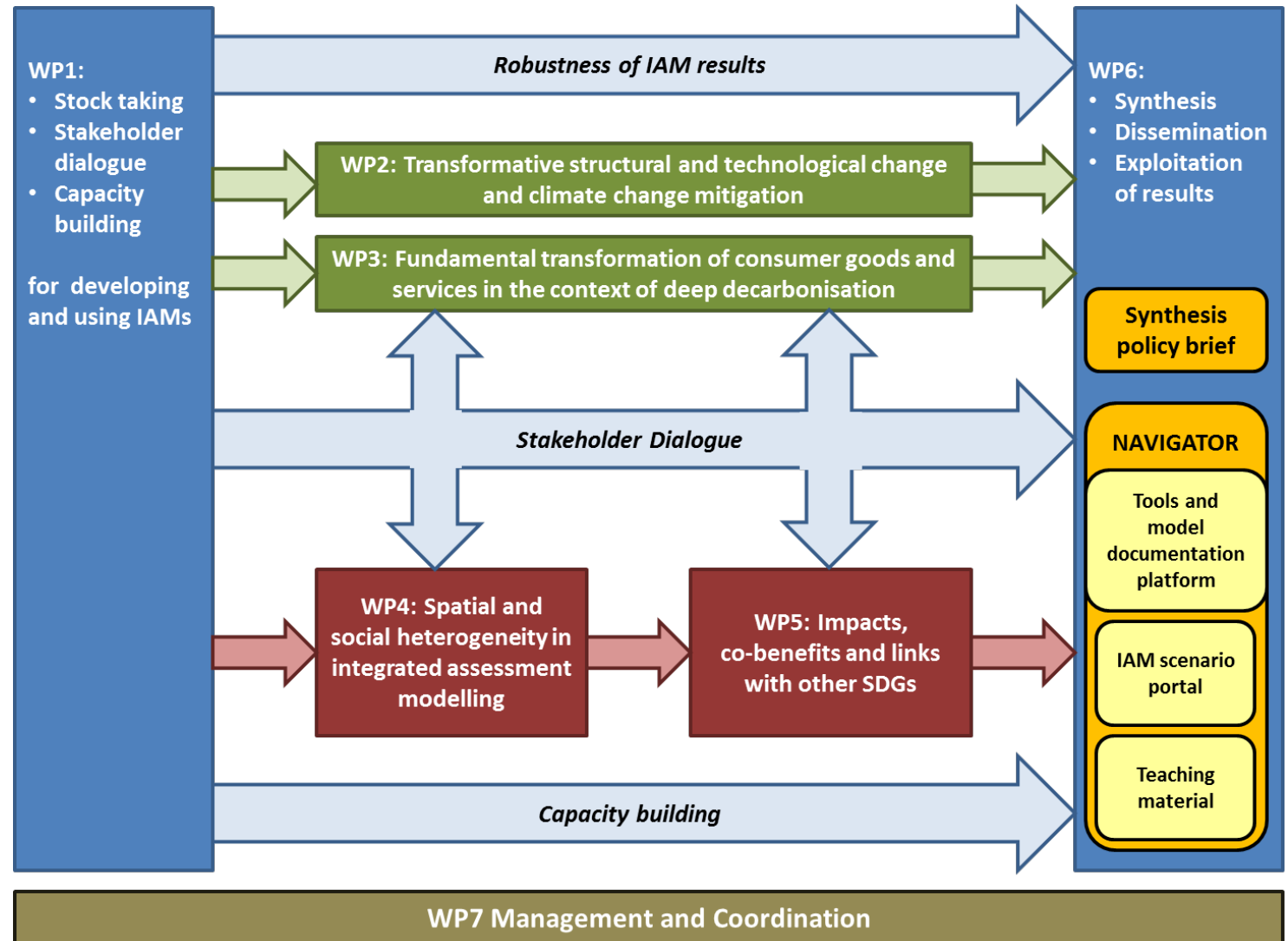
Systems

Analysing transformative change in

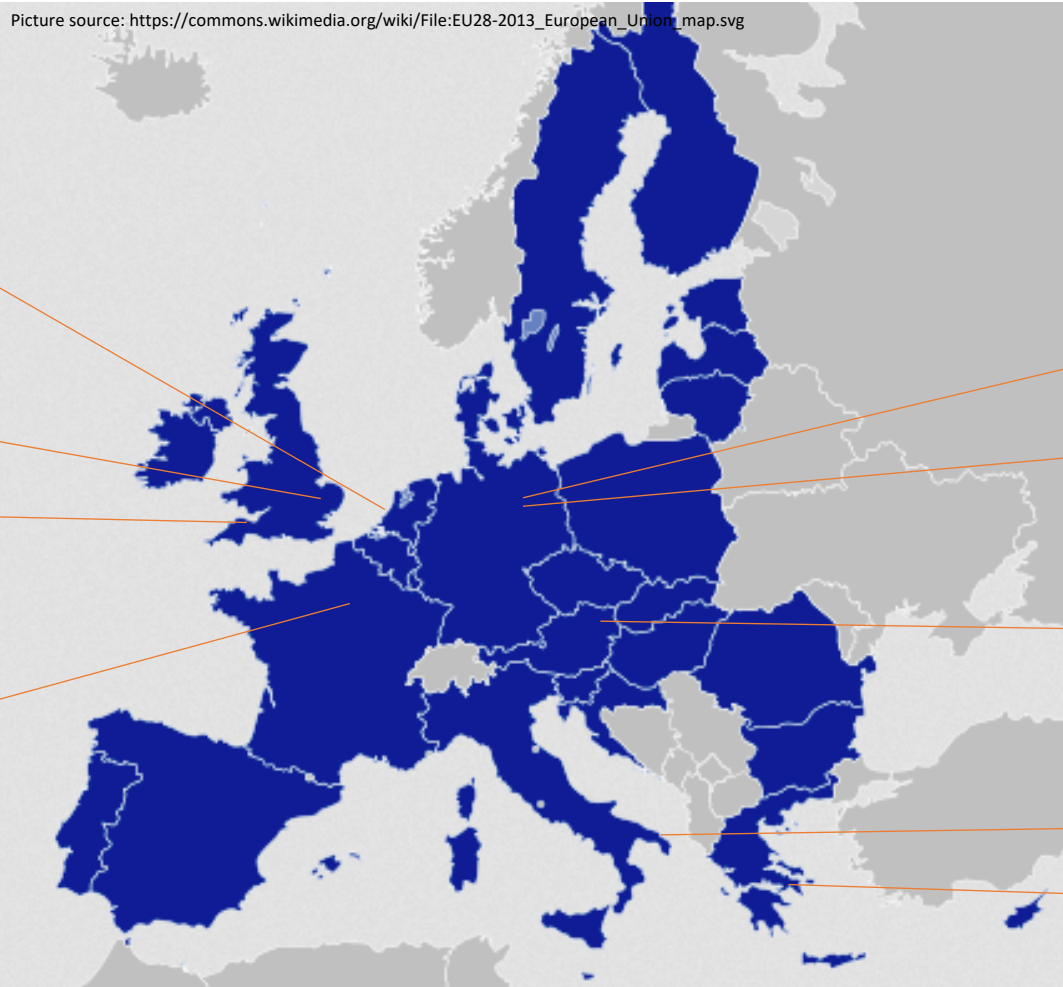
- Economy, technologies, sectors
- Consumption and services

People

- Representing heterogeneity
- Analysing distributional impacts



Integrated assessment modelling teams in NAVIGATE



Picture source: https://commons.wikimedia.org/wiki/File:EU28-2013_European_Union_map.svg

UCL
TIAM-UCL

IMAGE
PBL Netherlands Environmental Assessment Agency

EXETER
UNIVERSITY OF
E3ME-FTT

cnrs
Imaclim-R World,
DICE/NICE,
RESPONSE

COPPETEC
FUNDAÇÃO
BLUES,
COFFEE,TEA

MCC
Mercator Research Institute on
Global Commons and Climate Change
DICE/NICE

REMIND-
MAGPIE

MESSAGEix-
GLOBIOM
International Institute for
Applied Systems Analysis

cmcc
WITCH

E3Modelling
GEM-E3,
PRIMES

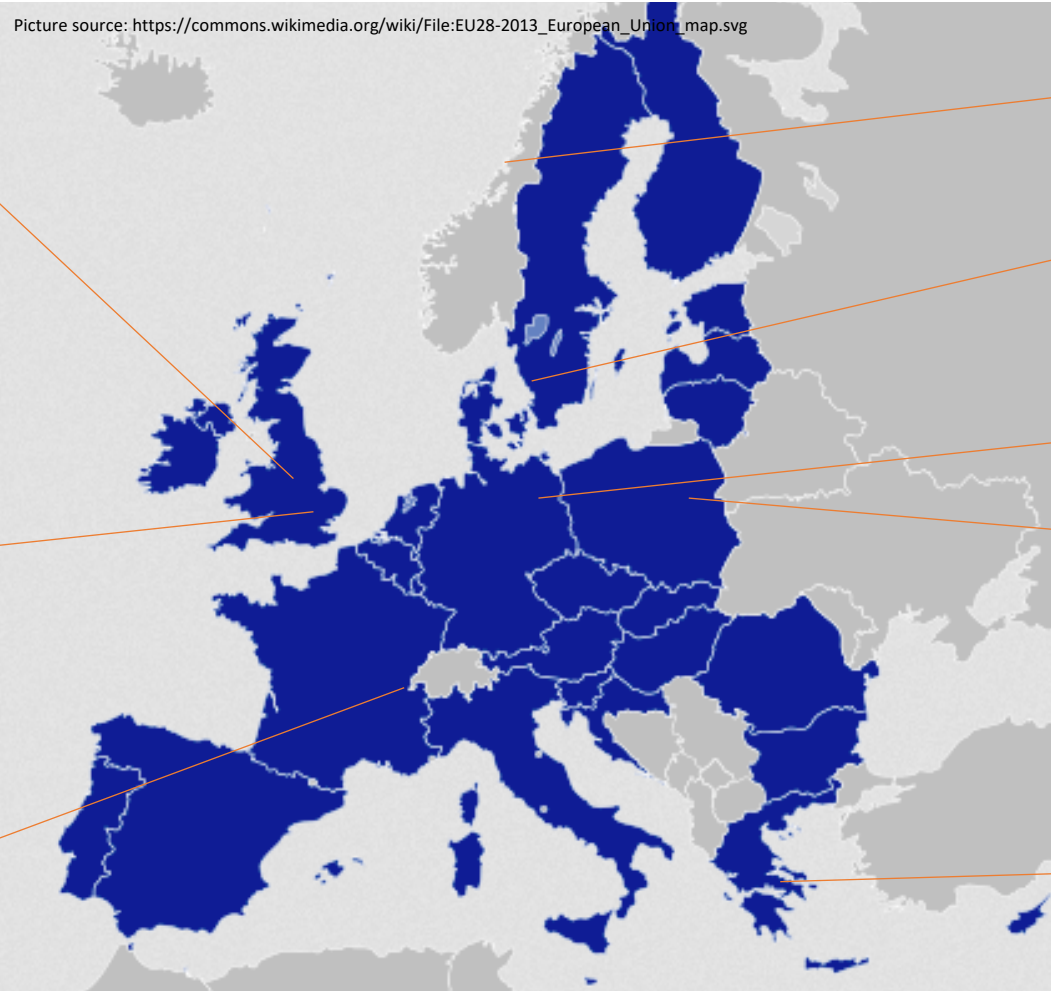
NCSC
IAMC/BRIAM

Rio de Janeiro, Brazil

Beijing, China

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Sector models and other tools in NAVIGATE



UEA
University of East Anglia
Lifestyle and
consumption data

UCL
BLUE (STET Model);
GloTraM + AIM
(transport);
BRAIN-Energy
(electricity)

**UNIVERSITÉ
DE GENÈVE**
EXPANSE
(STET Model,
electricity)

NSC
PECE
(Energy system
model)

Beijing, China

NTNU FEMRIO_EXIOfuture/ THEMIS
Model (Coupled LCA/MR IO)

**COCHIN-TIMES/
MoCho-TIMES (transport)
ALBIO-N (land-use)**

**CLIMATE
ANALYTICS**
SIAMESE (IAM
Downscaler)

WiseEuropa
MEWA, VESPA
(DSGE models)

E-Modelling
PRIMES-International
Shipping + PRIMES-
TREMOM (transport);
PRIMES-Buildings (building)



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Stakeholder dialogue

3 stakeholder and expert workshops

(M9 – Virtual (organized by University of Geneva), M19 – Paris, M29 – Milano)

Objectives:

- Create a continuous exchange with key stakeholders and experts
 - international and national climate policy makers
 - businesses and civil society organizations
 - scientific experts in related fields
- Collect feedback on the project's activities for:
 - informing the model development and documentation activities
 - co-producing stakeholder-relevant IAM outputs and policy-relevant scenarios

➡ improve transparency, legitimacy and usability of IAM results



Welcome to the University of Geneva!



Section of Earth and Environmental Sciences

- Energy, climate, environmental, and Earth sciences

Institute of Environmental Sciences

- Natural sciences, economics, geography, sociology, psychology, law, etc.

Renewable Energy Systems group

- Modeling at all spatial scales
- Long-range projections and decision making under deep uncertainty
- Socio-technical energy solutions



Goals of the workshop

Focus on models and modeling-based evidence for climate policy assessment in terms of:

- Robustness: analytical and technical adequacy of models, validity of modeling results given deep uncertainties and limits to state-of-the-art knowledge
- Legitimacy: transparency, traceability and accessibility of modeling, as well as design of participatory processes at modeling-policy interface

Guiding questions:

- What defines robust models, modeling results, and climate policy recommendations?
- By what means can robustness be assessed, ensured, documented, and communicated?
- What do models need in order to be legitimate tools to inform climate policy?



Agenda

(<https://navigate.res.unige.ch/Progr.pdf>)

Day #1, Tuesday

14:00 – 16:10 CEST

Welcome and plenary “Robustness and legitimacy: setting the scene”

16:10 – 16:30 Break

16:30 – 17:45

Group work “Robustness and legitimacy of evidence on emissions gap”

Day #2, Wednesday

14:00 – 15:15 CEST

Group work “Informing climate policy after the pandemic ”

15:15 – 15:30 Break

15:30 – 17:17

Plenary “Robustness and legitimacy: outlook” and wrap-up



Over 70 participants from at least 16 countries



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Practicalities

- **Mute your microphone** unless you would like to say something
- During the presentations, **let's listen first** and then:
 - Use "**raise hand**" **function** (press on "participants") and wait until the moderator call you
 - Write your question/comment in **the chat**
- We are not recording, but we will save the chat
- With the speakers' permission, **slides** will be available on the NAVIGATE website:
https://navigate-h2020.eu/first_stakeholder_workshop/
- You will get a **workshop's report**



Break-out group on Day#1 (16:30 – 17:45)

1. **Robustness of existing evidence on emissions gap and areas for future work**

Detlef van Vuuren (PBL Netherlands Environmental Assessment Agency)

Volker Krey (International Institute for Applied Systems Analysis)

No. of registered participants: 24

2. **Modeling-policy interface for legitimacy**

Michiel Schaeffer (Climate Analytics)

Jessica Strefler (Potsdam Institute for Climate Impact Research)

No. of registered participants: 20

3. **Gathering new robust evidence on carbon neutrality**

Elmar Kriegler (Potsdam Institute for Climate Impact Research)

Christopher Weber (WWF Global Science)

No. of registered participants: 12



Break-out group on Day#2 (14:00 – 15:15)

1. **Recovery packages and structural change of the economy**

Nico Bauer (Potsdam Institute for Climate Impact Research)

Bas van Ruijven (International Institute for Applied Systems Analysis)

No. of registered participants: 26

2. **Distributional implications of climate policy after the pandemic**

Johannes Emmerling (European Institute on Economics and the Environment)

Celine Guivarch (CIRED)

No. of registered participants: 19

3. **Role of lifestyles and behavior change**

Sonia Yeh (Chalmers University of Technology)

Charlie Wilson (University of East Anglia)

No. of registered participants: 18

