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An integrated perspective on climate change adaptation and mitigation. Insights from global economic models

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Objective.

Efficiency and equity issues related to impacts and adaptation have historically been disconnected from those related to mitigation. The scientific literature has started only recently to provide a broader and integrated perspective on climate change impacts, adaptation, and mitigation. In this context, given the unknown magnitude and distribution of future damages, accounting for uncertainty is particularly relevant.

The objective of this session is to present most recent results from the integrated assessment modelling literature on the connections between ambitious post-2020 mitigation aiming at the 2°C target, climate change impacts and their distributions, and adaptation, discussing questions such as: What are possible mechanisms for sharing the future risk of climate change? What are the implications of risk aversion and risk perception when planning for future adaptation and mitigation? Could an effort-sharing regime based on a broader perspective on the climate change burden, defined to include also adaptation costs and residual impacts, be perceived as more fair?

Format/method and length of the session/workshop

Knowledge session. Six/Five speakers will engage in 15-minute presentations illustrating the latest results from the scientific literature. A moderator will coordinate the discussion with the public.

1 hour and 45 minutes

Expected outcome of the session/workshop

Provide an overview of the most recent achievements on integrated modelling perspectives on adaptation and mitigation

Facilitate the dialogue between the scientific community, policy makers and negotiators to identify the knowledge gaps that need to be addressed to usefully support policy development and decision making in the field of climate change adaptation and mitigation.

Who are you planning to involve in the session/workshop?

Sharing of Climate Risks across World Regions, Johannes **Emmerling**, FEEM

Building Uncertainty into the Adaptation Cost Estimation in IAMs, Anil **Markandya**, BC3

Climate change impacts and market driven adaptation: the costs of inaction including market rigidities, Francesco **Bosello**, FEEM and CMCC

Burden sharing taking into account adaptation costs and climate change damage, Andries **Hof**, PBL

Climate Policy Under Uncertain and Heterogeneous Climate Damages, Hermann **Held**, PIK

Catastrophic risk, precautionary abatement, and adaptation transfers, Enrica **De Cian**, FEEM and CMCC

How many participants are you expecting/aiming at for your session/workshop?

6 speakers, a moderator, attendees.