

The role of IAMs: a user's perspective

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IAM and mitigation policy preparation

- Mitigation:

- Integrating CO₂ and multigas
- Integrating agriculture emissions
- Integrating LULUCF & REDD
- Link with models that project concentration, temperatures, impacts, etc.
- Rich modelling tools, have learned policy makers not to ignore regions, sectors and gases
- Global IAM allow to make link with emission profiles, concentrations and temperature changes

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Methodological issue: regional scope and detail

- Local policy maker requires IAM at sufficient regional detail to prepare real policy, example
 - EU \neq Western Europe and EU in one block is not detailed enough to prepare internal legislation ... even though we need IAMs also for our internal policy making!
- Global IAM informs global policy makers on global pathways but are they tooled to assess national individual policies on a global scale
 - How to assess the Copenhagen pledges?
 - Inform global community on real progress
 - Resolve differences bottom up and top down results?

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Methodological issue: land use

- IAM has given insights in the importance of LULUCF for mitigation
- But more information and detail can be useful for real policy implementation, e.g.:
 - Link with increased use renewables and LULUCF (not only deforestation, also harvesting cycles!)
 - Link between biomass for mitigation and (reductions of) deforestation
 - Link with other agricultural goods
 - What does one really model (only standing stock or also soil carbon)? How does it link to accounting rules?

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Methodological issue: time, pathways and perfect or other policy tools

- IAM crucial to inform policy makers on what type of emission pathways can be reached, and what type of temperature profiles will follow.
- Policy maker still not familiar with interrelationship short and long term including overshoots and uncertainties.
- Not only look at perfect pathways and perfect assumptions on who should do what
- Link with other air pollutants
- Impact technological availability

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Methodological issue: impacts of climate change and adaptation

- IAM can link mitigation scenarios with impact projections and adaptation needs
- But cost benefit analysis remains problematic. Very long time horizon make it into a debate on discount rates and assumed 'impact' costs
- Link between impact of climate change and the mitigation effort
- Feedbacks in general