

ENGAGE

Exploring National and Global Actions to reduce Greenhouse gas Emissions

Bas van Ruijven, ENGAGE/NAVIGATE Final Event Brussels
10 October 2023



Key policy insights

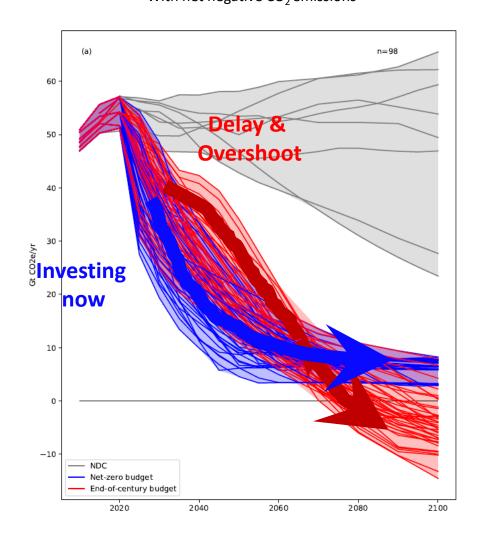
- 1. Limiting overshoot creates multiple long-term benefits
- Support for improving institutional capacity for implementation is key
- 3. To close the gap to 1.5C: expand net zero targets and bring them forward in time.

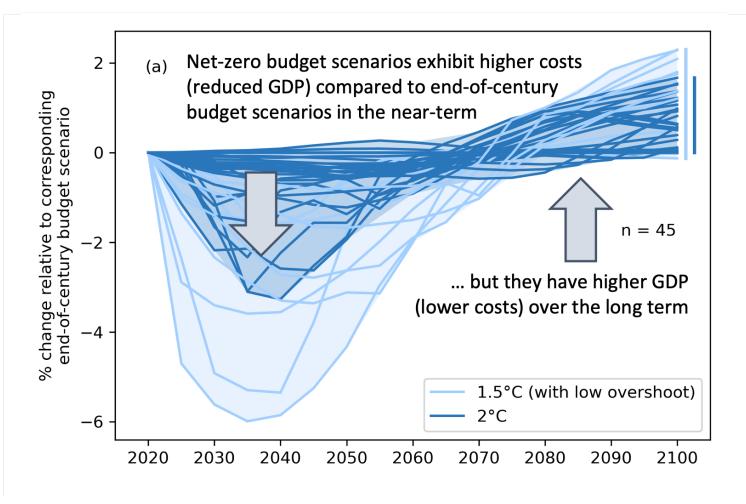


Reducing overshoot creates long-term benefits

World GHG Emissions

NDC
 No net negative CO₂ emissions
 With net negative CO₂ emissions

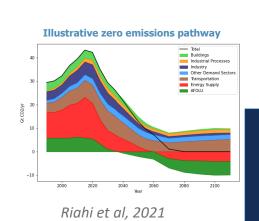




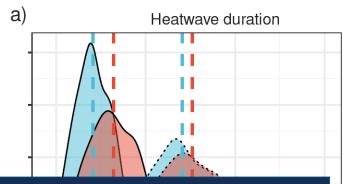
Reducing overshoot creates long-term benefits

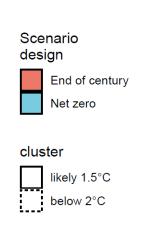
Impacts and Benefits of Mitigation

New Net-Zero CO2 Emissions Pathways









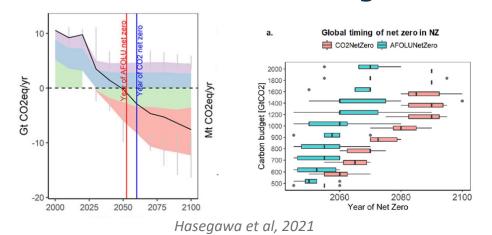
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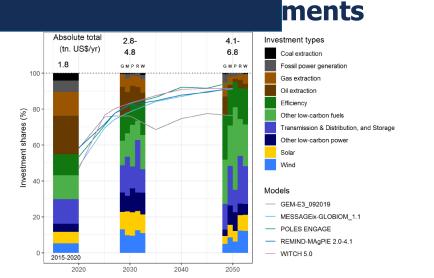
Bertram et al,

Critical input for the IPCC AR6 (WGIII)

~600 global pathways by 9 teams

AFOLU Sector for Reaching Net-Zero



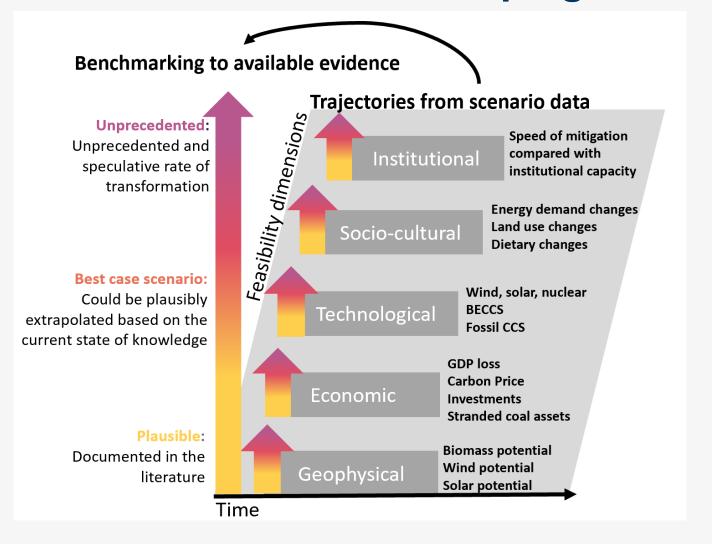


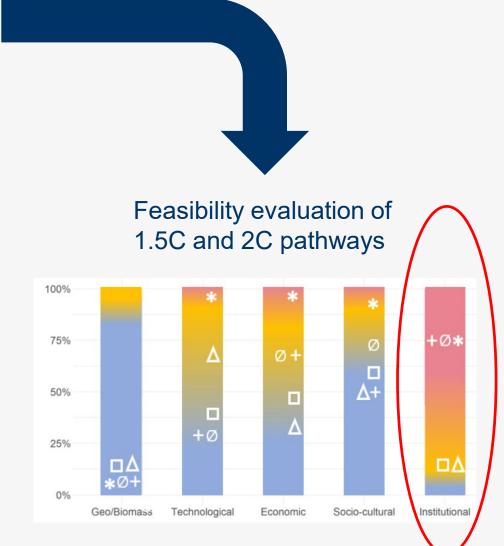


Key challenges comprise governance and institutional

dimension in the developing world



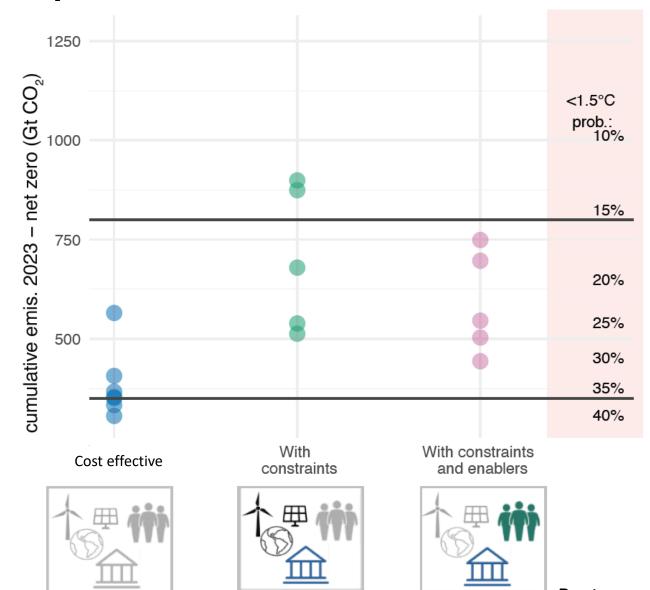




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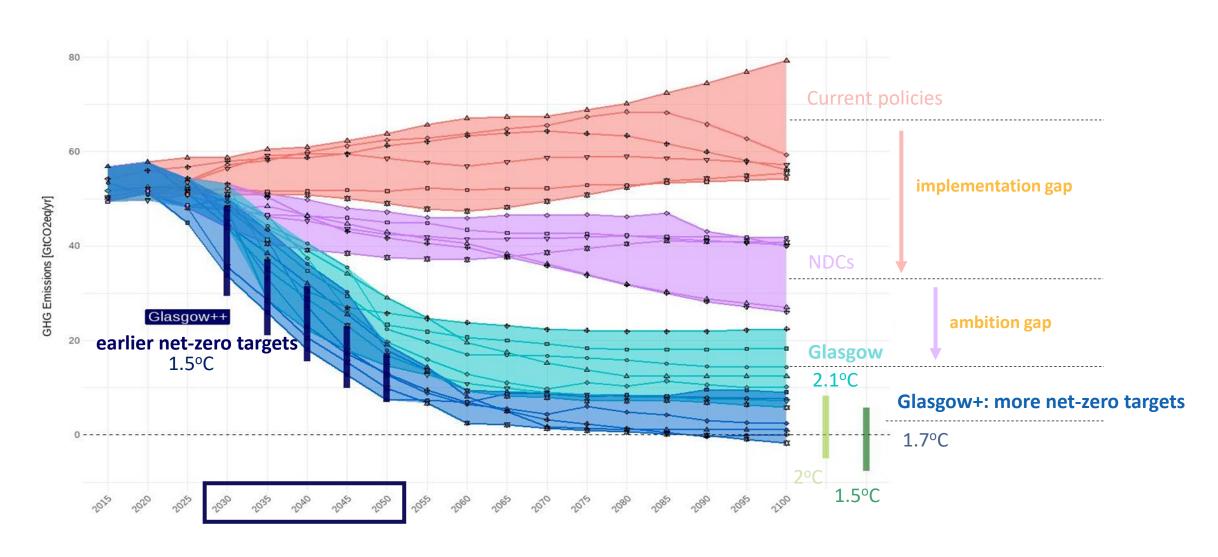
Support for improving institutional capacity for implementation is key

- Warming probably overshoots 1.5°C with feasibility constraints
- Countries with high institutional capacity should take more responsibility for near-term mitigation.
- Low demand & electrification improve likelihood of staying below 1.5°C and minimize overshoot





To close the gap to 1.5C: expand net zero targets and bring them forward in time.





Key policy insights

- 1. Limiting overshoot creates multiple long-term benefits
- Support for improving institutional capacity for implementation is key
- 3. To close the gap to 1.5C: expand net zero targets and bring them forward in time.



Scenario data and solutions explorer

Impacts explorer

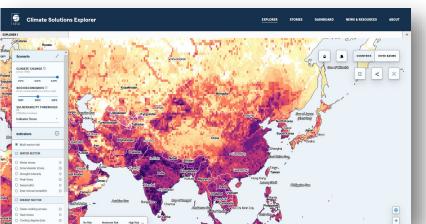
- Maps visualization of avoided impacts datasets
- 1.2 to 3.5 °C global warming level (GWL)
 - Latest CMIP6/ISIMIP data

Net-zero stories

 Interactive articles / epolicy briefs with maps and charts on key topics

National Dashboards

- Interactive dashboards for every country
 - (Avoided) climate impacts
- Energy & emissions pathways
 - Tradeoffs & co-benefits







ENGAGE stakeholder workshops

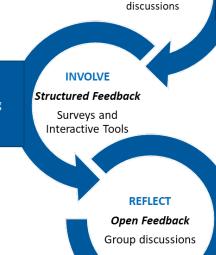


- Decarbonization pathways, enablers and barriers, game-changers
- Europe
- Pathways to net-zero, feasibility
- Global
- Pathways to net-zero, feasibility, equity
- Asia
- Implications of COP26 for research
- Global
- Pathways to net-zero, feasibility, equity
- Brazil and Latin America
- Energy security, avoided impacts, trade-offs and co-benefits of mitigation pathways, effort sharing
- Europe
- Achieving net-zero in Brazil and Latin America, sub-national implementation of pathways
- Brazil and Latin America
- Policy analysis for increasing ambition in 2030 and beyond, just transition, net-zero targets
- Global
- NDCs, co-benefits, sectoral decarbonization pathways
- China

- Online activities cannot fully replace physical meetings.
- Capacity building is essential to increase the facilitation skills of partners and scientific understanding among other stakeholders.
- A central platform is needed to document lessons learned in stakeholder engagement across EU projects.



✓ Involve stakeholders by giving them specific tasks



INTRODUCE

Presentations/Posters, Group and Panel

> ✓ Have an open discussion that allows for feedback and new insights

✓ Explain the topic

✓ Clarify expectations



Thank you very much for your attention!



www.climate-solutions-explorer.eu

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For more information, you call also contact: engage.secretariat@iiasa.ac.at



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