

# RESCUE & LANDMARC MODELLERS' WORKSHOP

Developing a robust simulation modelling  
ecosystem for transition impact studies

Wed 24 April 2024

14:00–16:30 CEST

ONLINE



This modeller-to-modeller workshop brings together researchers from the European projects RESCUE and LANDMARC to reflect on the current challenges in simulation modelling, and land-based mitigation technology (LMT) and carbon dioxide removal (CDR) scaling.

Following a series of presentations, the participants will engage in a discussion on how to build a better modelling ecosystem.

Both projects host a series of simulation models (such as land use change, Earth systems, economic) that are used for the quantitative (impact) assessment of scaling certain technology portfolios (LMT and CDR).

In LANDMARC, simulation modelling work faced several challenges, particularly since the consortium did not have its own direct access, resources and expertise regarding integrated assessment models (IAMs). Regarding the engagement with stakeholders, LANDMARC has been able to engage with relevant stakeholders in different countries and regions to obtain relevant feedback regarding enablers and constraints, as well as expectations regarding the scaling of different technologies and technology portfolios in specific contexts (spatially explicit).

In RESCUE, Earth system models (ESMs) and particularly IAMs are increasingly looking to provide assessments and outputs that have higher spatial resolutions, and as such could provide 'more realistic' actionable information and insights for implementing stakeholders.

## AGENDA

Challenges with simulation modelling, and gaps in model suite

*Etienne Tourigny (BSC), &  
Florian Wimmer (Uni Kassel)*

Multi-level modelling framework to co-design feasible portfolios of land-based climate mitigation technologies

*Rüdiger Schaldach (Uni Kassel)*

Regional engagement for global Impact

*Francis X. Johnson (SEI)*

Stakeholder interaction - Challenges from an IAM perspective

*Leon Merfort (PIK)*

Reflections on land-based CDR modelling in ESMs

*Shraddha Gupta (LMU Munich)*

**OPEN DISCUSSION:**

*How can we build a better modelling ecosystem?*






RESCUE



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## CONTACT

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