

Session ID # 52:

Interacting with integrated assessment models for target-seeking under uncertainty

Session organisers:

Sibel Eker, Radboud University & IIASA

Sarah Cornell, SRC at Stockholm University

Merle Remy, Institute for Advanced Sustainability Studies, Potsdam

Jan Kwakkel, Delft University of Technology

Radboud Universiteit



**Stockholm
Resilience Centre**



**Stockholm
University**



**Institute for Advanced
Sustainability Studies**



**International Institute for
Applied Systems Analysis**

IIASA www.iiasa.ac.at

Session aims:

- 1) Explore how to capture uncertainties and diverse perspectives in IAM-based scenario analysis
- 2) Learn more about ways of using IAM scenarios and their results
- 3) Explore how IAMs can do better at dealing with future pathways to reach interacting globally agreed goals
- 4) Make connections across a wider research community and with science-society forums beyond climate change

How our session's presentations connect:

1) **Structural model aspects of IAM:**

Justice principles and aggregation choices

2) **Interfaces of IAM use:**

Using IAM scenarios in project assessments;
Evaluating interactive scenario tools

3) **Stakeholder engagement in IAM scenario development**

Today's agenda

Presentations:

Damla Akoluk, Delft University of Technology

Exploring the distributive justice principles in integrated assessment models: a trade-off analysis on interregional justice

Jia Li, David Groves, Camilla Knudsen and Sam Fargher, World Bank

Using decarbonization scenarios to assess development projects' consistency with low carbon goals

Georgios Xexakis, University of Geneva; HOLISTIC S.A.

Are interactive scenario tools an effective solution for expanding the uncertainty space and communicating scenario results of integrated assessment modeling?

Sarah Cornell, Stockholm Resilience Centre and **Merle Remy**, Institute for Advanced Sustainability Studies (IASS)
for **the SHAPE consortium**

Co-creating target-seeking scenarios for climate and sustainable development goals

Let's start!

More...

Claudia Wieners, Utrecht University

Poster: Integrated Assessment Modelling of solar geoengineering: Simple experiments in the DICE model

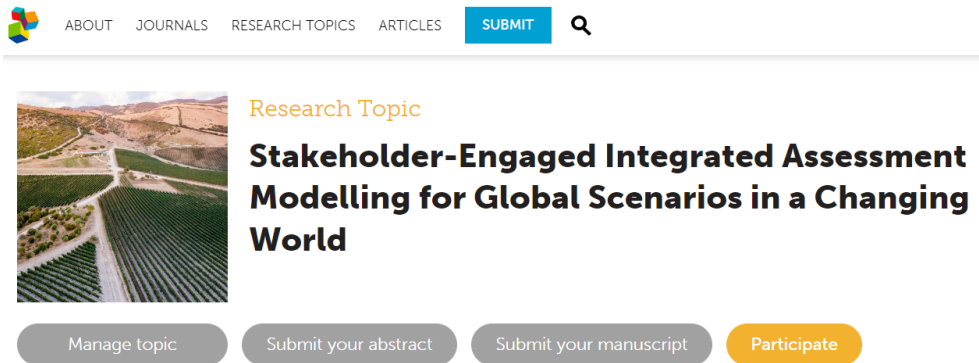
Angelo Carlino, Politecnico di Milano

Virtual poster: Robust policies under deep uncertainty: a robustness analysis of economically optimal mitigations in the RICE50+ integrated model.

Ben Matthews, Independent

Virtual poster: A Scalable Interactive Climate IAModel for Experimenting with Diverse Pathways

Following the Scenarios Forum...



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Research Topic

Stakeholder-Engaged Integrated Assessment Modelling for Global Scenarios in a Changing World

Manage topic Submit your abstract Submit your manuscript Participate

Special Issue in *Frontiers in Environmental Sciences* led by Jeffrey Bielicki, Douglas Jackson-Smith, Sibel Eker, Sarah Cornell

- Opportunity to contribute to article collection

This session also connects to **session #29** that took place on Tuesday 21st June:

“Learnings from stakeholder participation for the development and implementation of scenarios and long-term pathways towards sustainable systems”

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Thank you!