

BASIC INFO & LINKS



ABOUT POLICY SIMULATIONS

Policy Simulations take participants into the future to engage them in co-creating policies to reduce risk, build resilience, or achieve other urgent goals. Together, participants will explore the research-based future stories offering realistic effects of business-as-usual trends. In their roles as future policymakers, they will be invited to embrace diverse values and perspectives while negotiating issues such as food crises, new transport routes, accelerating the mining of critical raw materials, or protecting traditional livelihoods and ecosystems.

According to participants from previous workshops, the simulation enabled them to act as real delegates and assess different options to avert the crisis. The immersive character of this experience aims to stimulate imagination - *It felt real. I had to remind myself that it was just a simulation* - said another participant. The simulation invokes emotions, encourages learning and knowledge sharing, and motivates collaborative action.

GLOBAL SCOPE

CASCADING CLIMATE IMPACTS SERIES

The *Cascading Climate Impacts* simulation series covers three topics: Raw Materials Challenge, Arctic Security and Future of Food. It has been used in multiple workshops, including with partners from outside the Cascades Project.

Cascading Climate Impacts Simulations have supported the activities of: Belmont Forum, UN General Assembly Science Forum, American Association for the Advancement of Science (AAAS), The World Academy of Science, Science Advice for Policy by European Academies (SAPEA), and others.

RAW MATERIALS CHALLENGE

As demand for critical minerals rises with the clean energy transition, supply chains risk disruption from climate disasters and political instability. This near-future crisis simulation challenges participants to navigate these threats and find sustainable solutions.



- Simulation website
- Exploration website with the pre-simulation content



Simulations funded by and developed within the CASCADES Project

ARCTIC FUTURE & ARCTIC SECURITY

As Arctic sea ice retreats, new shipping lanes and untapped resources spark competition among global powers. In these simulations, participants respond to the emerging challenges of balancing trade, security, and environmental protection in the High North.



Info about simulations (both versions)



Arctic Security Simulation exploration website with the pre-simulation content

Articles about the Arctic Security Simulation:

#1

#2

GLOBAL SCOPE

CASCADING CLIMATE IMPACTS SERIES

FUTURE OF FOOD

Climate disasters – droughts, floods, heatwaves – disrupt food production and supply chains, causing global ripple effects. Simulation participants act as expert advisors to develop policy responses for a strained global food system.



Simulation website

Exploration website with the pre-simulation content

THE CASCADES GAME

The Cascades Game, developed within the CASCADES project, builds on the Future of Food Policy Simulation to support stakeholder engagement and knowledge co-production. It offers an asynchronous online experience (Exploration Mode) or materials for offline workshops (Classroom Mode).



Handbook

HANDBOOK

Exploration website with the pre-game content

OTHER SIMULATIONS

DEEP SEA MINING

Deep sea mining offers access to critical metals for renewable energy, but carries uncertain environmental risks. Here, participants assume stakeholder roles to debate policies and decide the future of the industry.



Simulation website

Exploration website with the pre-simulation content

Simulation funded by the Balaton Group & Sustainable Ocean Alliance

CLIMATE SCIENCE CRISIS

The Climate Science Crisis simulation explores the challenges of science-policy interactions and restoring public trust. In a fictional scenario where misinformation fuels distrust, participants navigate a high-stakes conference to find solutions.



Simulation website

Simulation funded by and developed within the PERITIA Project

GLOBAL SCOPE

OTHER SIMULATIONS

POWERING THE WORLD SIMULATION

In a world under mounting climate and resource pressure, energy transitions intensify global tensions and expose competing priorities. Simulation participants take on expert advisory roles to navigate the trade-offs of a sustainable, equitable energy systems transformation.



[Simulation website](#)

Simulation funded by [Future Earth](#) for the 2024 [Sustainability Research and Innovation \(SRI\) Congress](#)



SIMULATIONS FOR THE EU

FOOD ALERT PROJECT

The Food Alert Project develops practical tools to strengthen food system resilience against climate shocks and sustainability challenges.

The first Food Alert Simulation explored a series of climate shocks disrupting EU food systems. The second challenged participants to assess and improve food supply governance in the Nordic region, amid a multi-faceted crisis.

FOOD ALERT EU



[Food Alert Simulation website](#)

Food Alert
media
releases:

#1

#2

NORDIC FOOD ALERT

[Nordic Food Alert Sub-Page](#)

[Workshop Report](#)

The Food Alert Project was funded by [EIT Food & Permanent Representation of the Netherlands to the European Union](#). Nordic Food Alert Simulation was funded by the [Nordic Council of Ministers](#).

SIMULATIONS FOR THE EU

OTHER SIMULATIONS

JUST MOBILITY TRANSITION SIMULATION

Europe's shift to sustainable mobility poses major labor market challenges. This simulation uses immersive storytelling and data to explore the socio-economic impacts of the European Green Deal and reflect on inclusive transition pathways.

Simulation website

Exploration website with
the pre-simulation content

Simulation funded and developed within the [SEER Project](#)



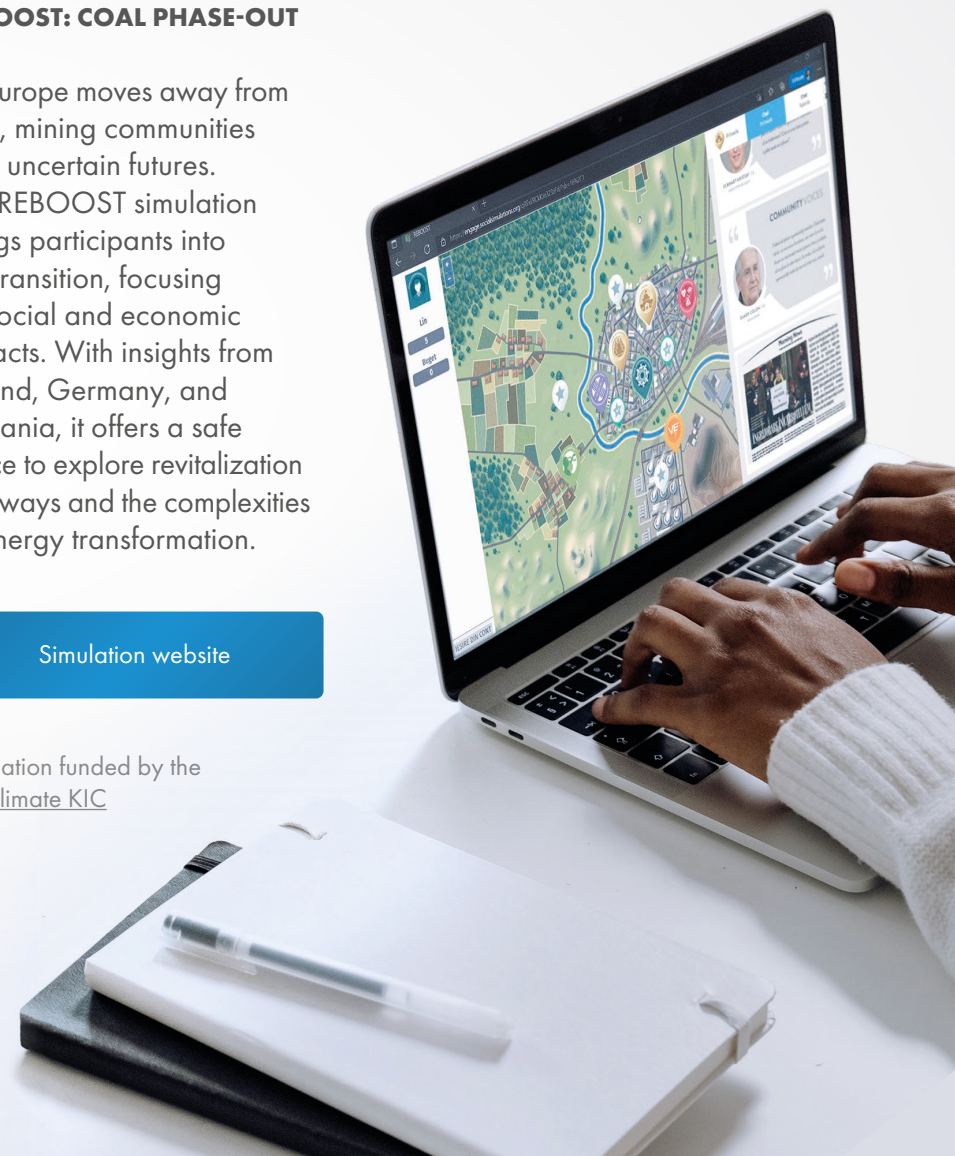
LOCAL SCOPE

REBOOST: COAL PHASE-OUT

As Europe moves away from coal, mining communities face uncertain futures. The REBOOST simulation brings participants into this transition, focusing on social and economic impacts. With insights from Poland, Germany, and Romania, it offers a safe space to explore revitalization pathways and the complexities of energy transformation.

Simulation website

Simulation funded by the
[EIT Climate KIC](#)



LOCAL SCOPE

PHUSICOS: NATURE-BASED SOLUTIONS

Balancing green infrastructure with real-world trade-offs, this browser-based multiplayer simulation explores how Nature-Based Solutions can reduce disaster risks. Players negotiate across environmental, social, and economic dimensions to reach community decisions.

Simulation website

Simulation funded and developed within the [PHUSICOS project](#)

NET ZERO CITIES SOLEVENTO

Set in a fictional European city of the near future, this simulation challenges participants – acting as an advisory board – to develop retrofit and energy strategies. The task? Balance ambitious climate targets with the everyday needs of citizens.



Simulation website

Exploration website with the *pre-simulation* content

Simulation funded and developed with [NetZeroCities](#) for the EU Cities Mission



SIMULATIONS USING ARTISTIC APPROACHES

THE PRINCE THEATRICAL SOCIAL SIMULATION

Based on the treaty by Niccolo Machiavelli, the simulation invites participants to a fictional country preparing for a high-stakes presidential election.



Simulation website

Simulation developed in collaboration with Polski Theatre in the underground

SIMULATIONS AND DANCE



Simulations developed in cooperation with the International Institute for Applied Systems Analysis (IIASA)

CENTRE FOR SYSTEMS SOLUTIONS PORTFOLIO OF SOCIAL SIMULATIONS

Website

