ECMWF – DESTINATION EARTH

WORLD CAFÉ - INTRODUCTION

Workshop DestinE supporting EUCRA-2

Bonn, September 8-9, 2025

European Environment Agency
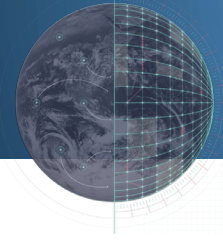
Funded by the European Union

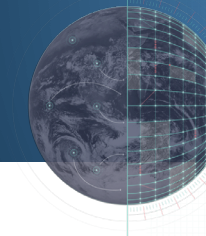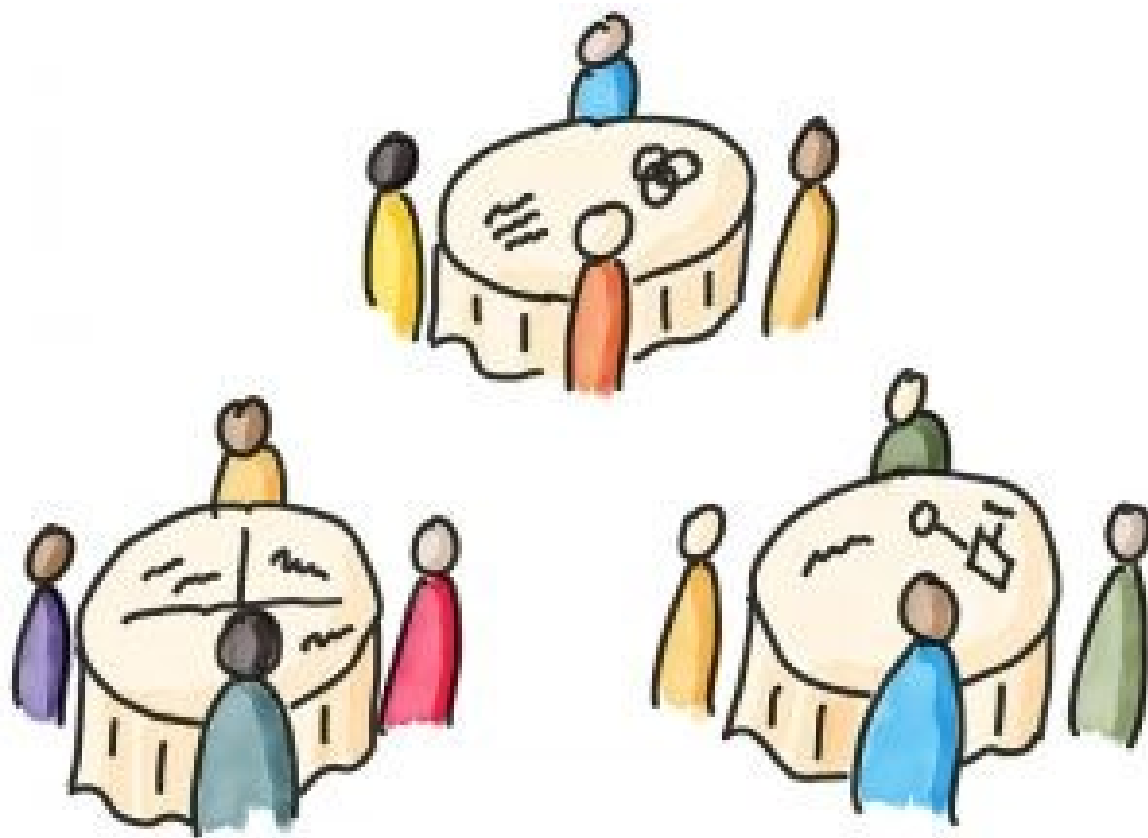**Destination Earth** implemented by ECMWF esa EUMETSAT

Objectives of the session

- Develop concrete suggestions of where and how DestinE activities could/should support climate risk assessments;

- Identify mature opportunities as well as development needs;

- Highlight areas of added value;

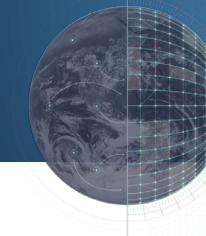- Gap analysis – knowing what will not work.

World Café

5 "tables" on different topics

  – Water resources
  – Energy sector
  – Food production and food security
  – Human health
  – Risk in the financial sector
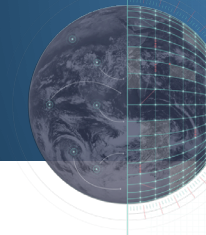
5 rounds (~15 minutes)
  – please move around!

Role of the "table hosts"

Table hosts …

… Double moderation, one thematic/EUCRA host and one DestinE host;

… Welcome "travellers" to a table;

… Introduce key insights of previous discussion;

… Remind participants to jot down ideas on white boards;
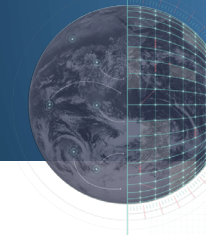
… Invite everyone to contribute.

… after the discussion

… Consolidate the inputs from the white boards;

… Present consolidated inputs during session 4, 2nd day.

… Summarize the outcomes for Session 5, 2nd day.
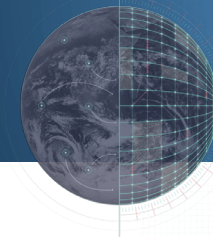
Discussion questions (1/4)

- Which relevant climate variables/indices/hazards can be simulated?

- Which specific climate-related risks (incl. those from EUCRA-1) can be simulated?

- How quantitative can this realistically be? At what spatial aggregation?

- How mature is this? (The final and quality-controlled results and data to be used in EUCRA need to be ready within two years, i.e. by Q3/2027).

- Which scenarios (RCP/SSP/Global Warming Levels) can be simulated?

Discussion questions (2/4)

Climate hazards

- Which types of model ensembles can be run to support probabilistic assessments?

- How can 'tail risks' and systematic biases of current climate models ('model blindspots)' be considered? Through physical climate risk storylines?

- Can relevant compound hazards be simulated? Which ones? How?

- What is the best available granularity we can expect (spatial resolution)?

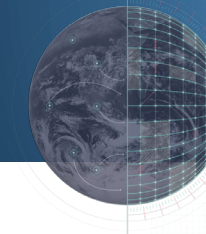- Can we expect spatially aggregated data (e.g. NUTS3)?

Discussion questions (3/4)

Exposure

- Is relevant data on exposure (e.g. population, ecosystems, buildings, infrastructure) readily available on the necessary granularity (e.g. NUTS3)?

- Which future changes in exposure can be simulated/modelled?

Vulnerability

- Is relevant data on vulnerability readily available? If not, which data would be needed?

- Can vulnerability be dynamically simulated by relevant sector models?

- Which factors influence changes in vulnerability over time?

Discussion questions (4/4)

Adaptation actions:

- Which adaptation actions and pathways can be considered in the simulations?

- Will information on costs of actions be available?

Policy relevance:

- Which new insights for adaptation decision-making can be expected from the simulations?

- Which high-level messages for European policymakers could the simulations support?