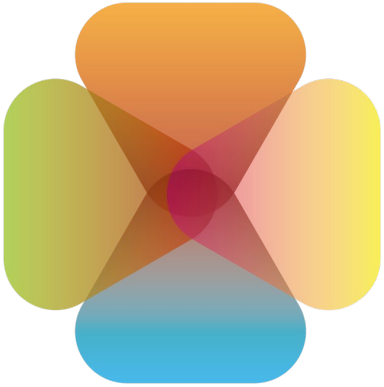


ACCREU
Assessing Climate Change Risk in EUrope

Research highlights and policy implications from the ACCREU and CROSSEU projects

Francesco Bosello, Enrica De Cian
University of Venice and CMCC

The ACCREU-CROSSEU final event
Climate Risk Across Europe:
Knowledge,Tools and Path to Resilience

Brussels, Nov. 13th, 2026

ACCREU «Pillars»

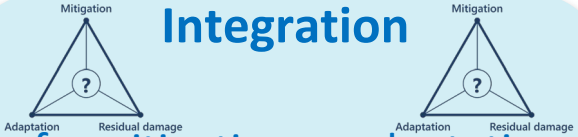
Impacts

comprehensive, integrated, assessment of climate risks across EU sectors, regions, countries.

Adaptation

Improved qualitative and quantitative assessment of costs, benefits, effectiveness, limits of adaptation.

Integration



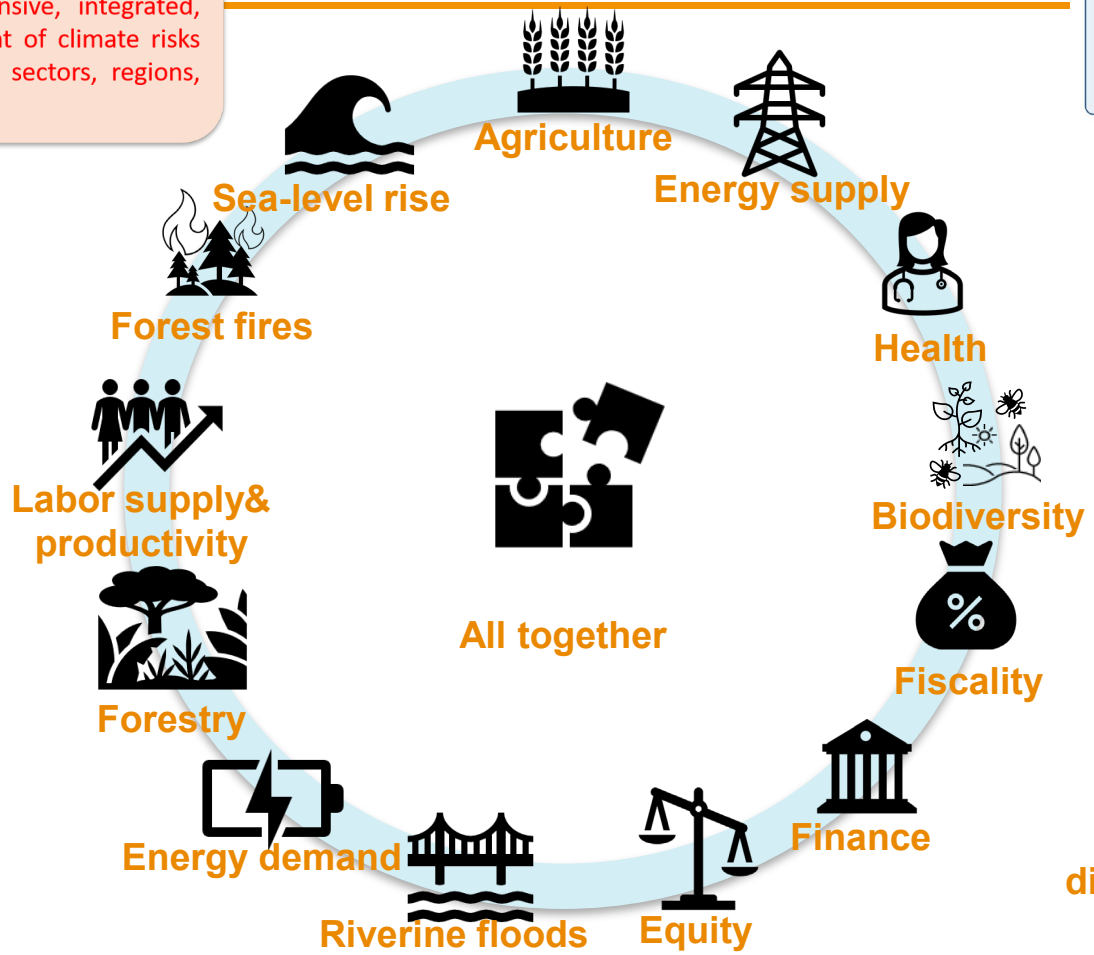
of mitigation, adaptation and residual damages into the policy decision process and identification of policy lessons

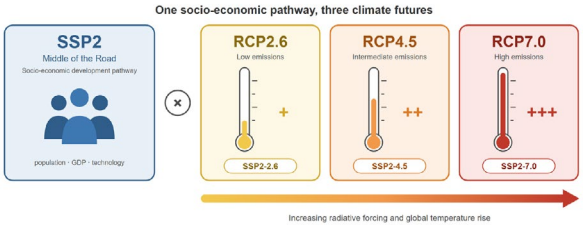
Co-design

co-produce and co-deliver project research and its outcomes with public and private actors at multiple level of governance.

Impacts

comprehensive, integrated, assessment of climate risks across EU sectors, regions, countries.





Across diferent scenarios





For major world macro-regions and for 122 EU 27+UK NUTS regions





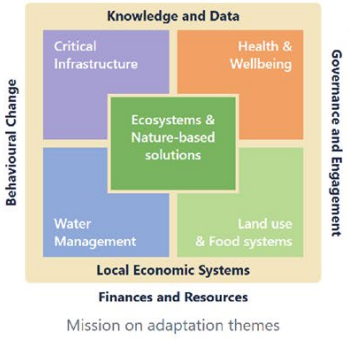


Assessing physical impacts, direct costs and macroeconomic implications

Adaptation

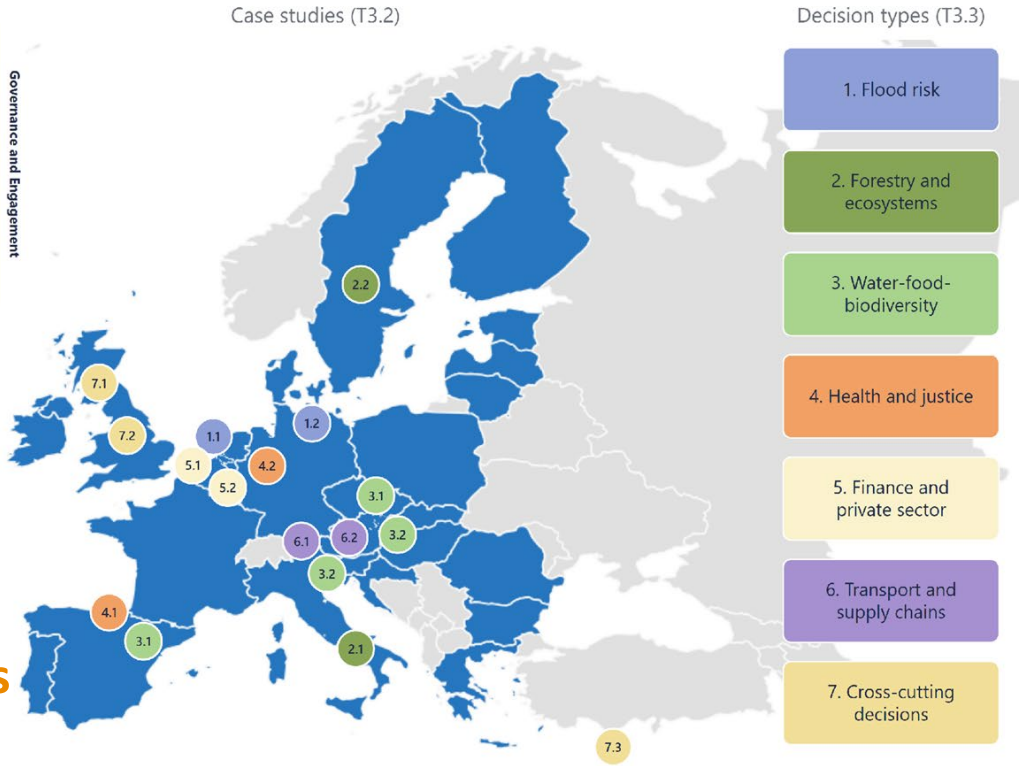
Improved qualitative and quantitative assessment and methods on costs, benefits, effectiveness, limits of adaptation.

- 15 case studies on adaptation
- 7 adaptation decision types
- Modelling and empirical assessments
- Systematic review of impact & adaptation literature



Mission on adaptation themes

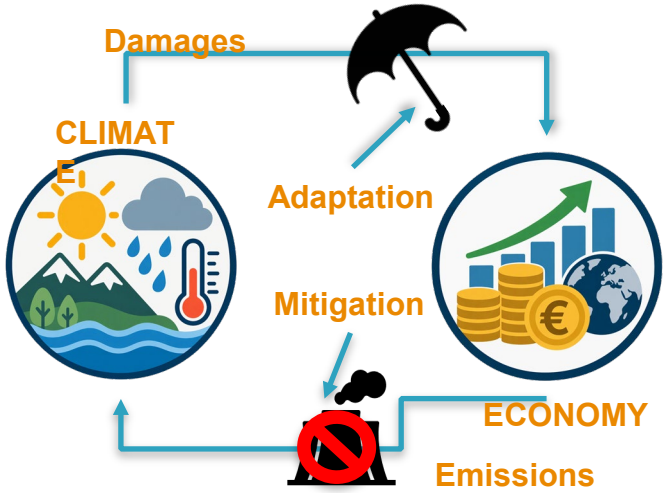
To quantify adaptation costs, benefits and effectiveness



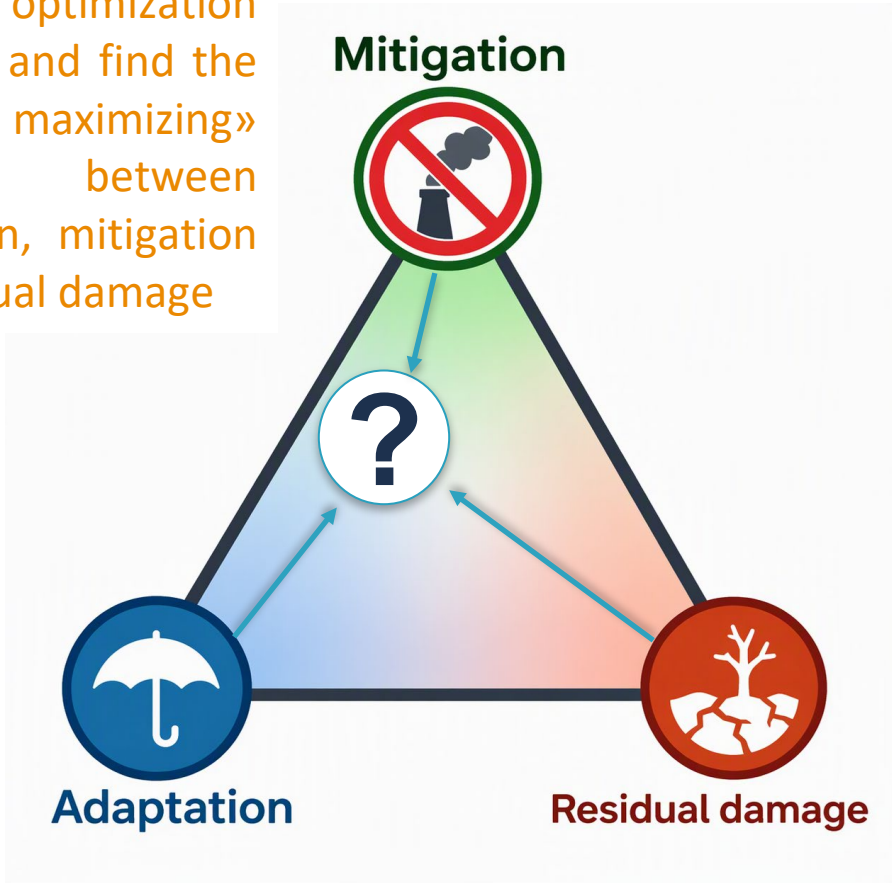
Integration

of mitigation, adaptation and residual damages into the policy decision process and identification of solutions

Up-to-date climate – economy – mitigation&adaptation policy integrated assessment models



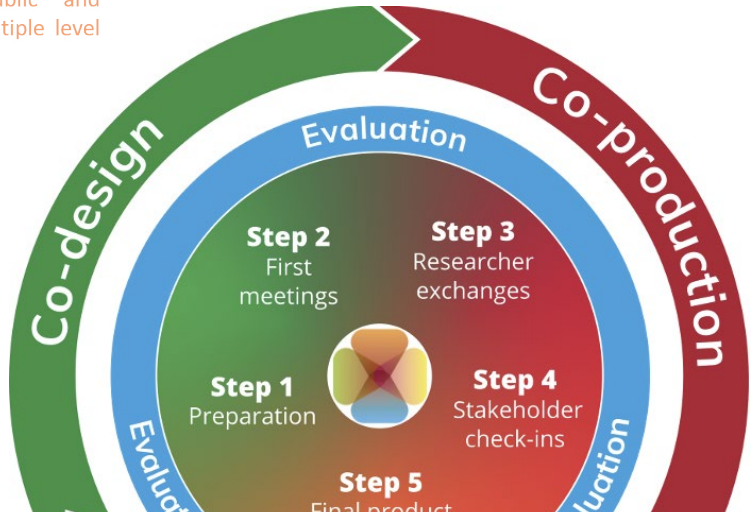
Used to perform a «policy optimization exercise» and find the «welfare maximizing» balance between adaptation, mitigation and residual damage



Co-design

co-produce and co-deliver project research and its outcomes with public and private actors at multiple level of governance.

Grounded on the «**co-creation**» concept



- **Co-design**, where the project team and stakeholders identify common interests and jointly develop research questions.
- **Co-production**, an iterative process where the project team works with stakeholders on chosen case studies to produce cutting-edge research with policy synergies.
- **Co-delivery** stage, the project team and develop communication products to translate and support uptake into

✓> 40 stakeholders

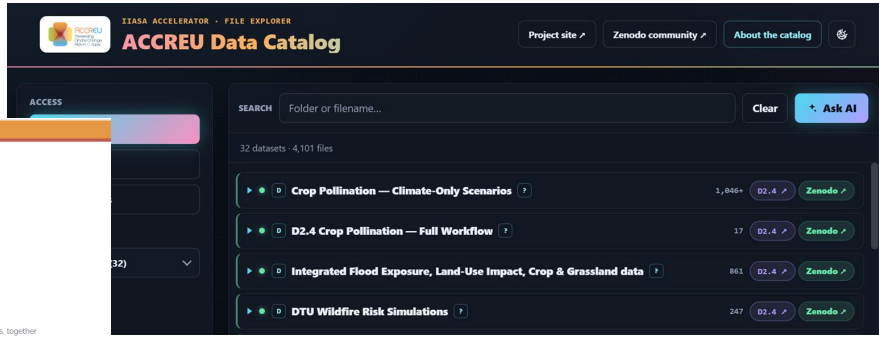
✓> 90 bilateral stakeholder meetings

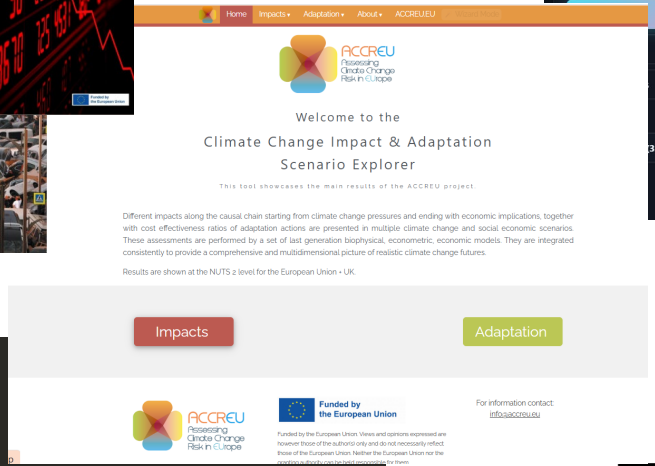
✓11 stakeholder workshops

✓4 webinars …

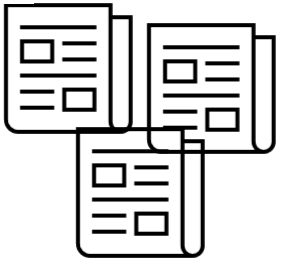
Last, but not least… dissemination











30 scientific publications (so far)

Results: an appetizer…

Assuming “current”mitigation and adaptation effort climate change impacts will be very costly for the EU	-7% -17% EU GDP in 2070 in the RCP 7.0
Major macroeconomic impact drivers	Impacts on labor, sea-level rise, riverine floods
High spatial and social heterogeneity	Mediterranean and Central-Eastern EU more affected
Adaptation has a high potential to cost-effectively reduce these impacts	-30% - -50% of impacts
Adaptation brings additional “dividends”	More tax revenues (lower erosion of the tax base), more equity
Still an important share of damages remains. Mitigation is essential	The temperature increase that **must not** be exceeded is 2°C
Mitigation & Adaptation should be combined	They perform better in combination than in isolation

Thanks!

PARTNERS

ACCREU research is conducted by a consortium of 14 leading EU research institutions:

- Euro-Mediterranean Center on Climate Change (CMCC) **Coordinator**
- BC3 Basque Centre for Climate Change (BC3)
- Ca' Foscari University of Venice
- Climate Analytics
- Deltares
- Ecologic Institute
- Global Climate Forum (GFC)
- IIASA
- Paul Watkiss Associates (PWA)
- Postdam Institute for Climate Research (PIK)
- Stichting VU
- Technical University of Denmark (DTU)
- University of Graz
- Utrecht University

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ACCREU
Assessing Climate Change Risk in EUrope

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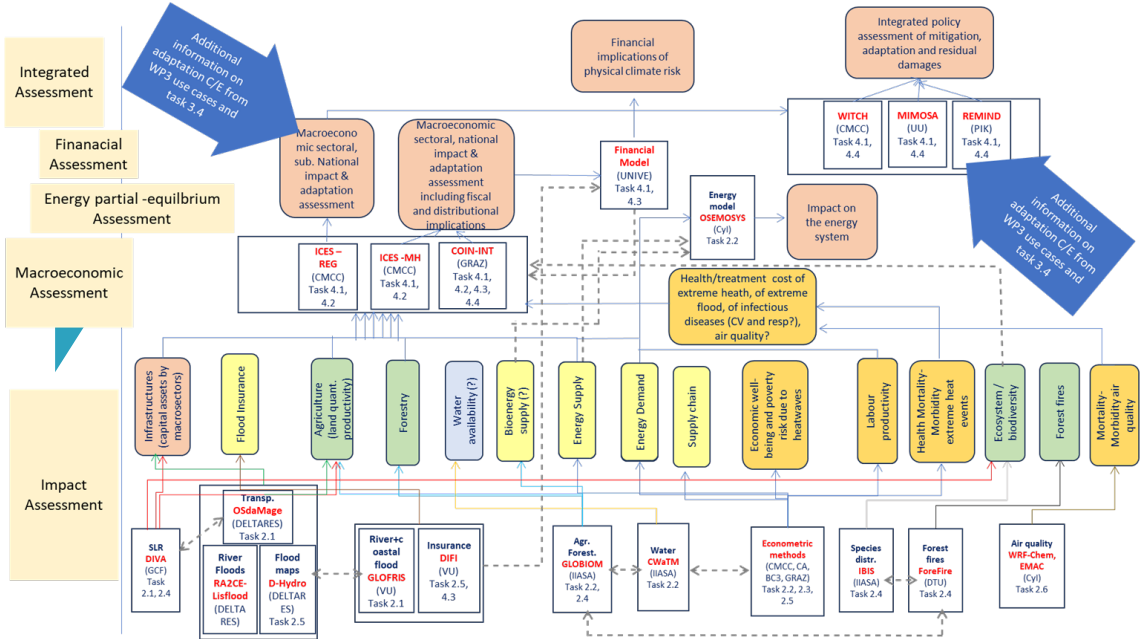
Methods

ACCREU is a complex project.

It deals with

- Different systems: Climatic, environmental, socio-economic,
- Different scales: Macroregional-national – regional – local -- > sectors and households, short medium and long term,
- Different domains: Impacts, mitigation, and adaptation; the real and the financial side of the economy, equity



It uses and integrates solid quantitative tools&methods: Bottom-up, top-down models, econometrics, surveys, decision theory