



Project title: “Unpacking climate impact CHAINs. A new generation of action – and user-oriented climate change risk assessments” (UNCHAIN)

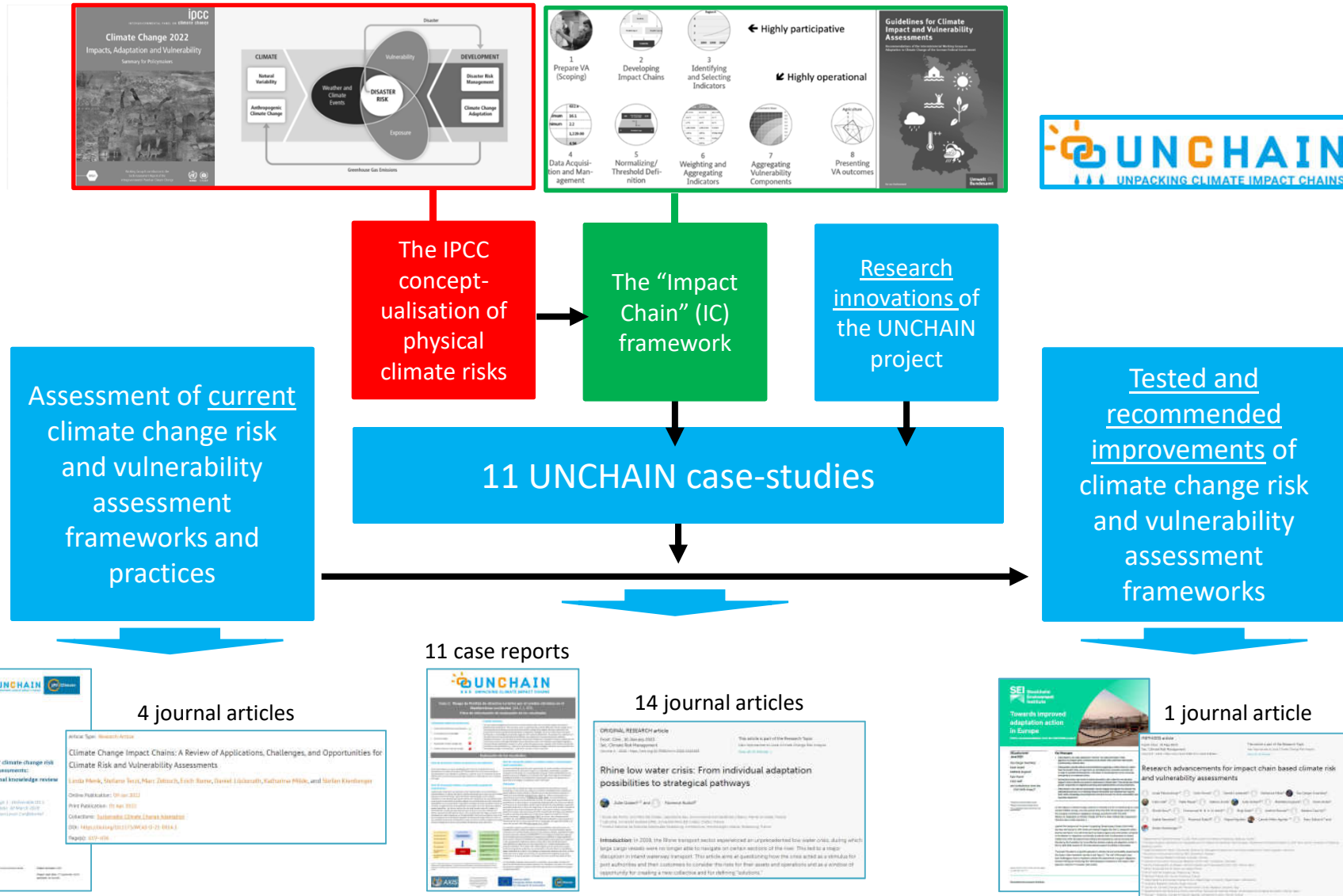


AXIS final event
Dublin, Royal Irish Academy
19 June 2023

Research partners



Research design and outcomes

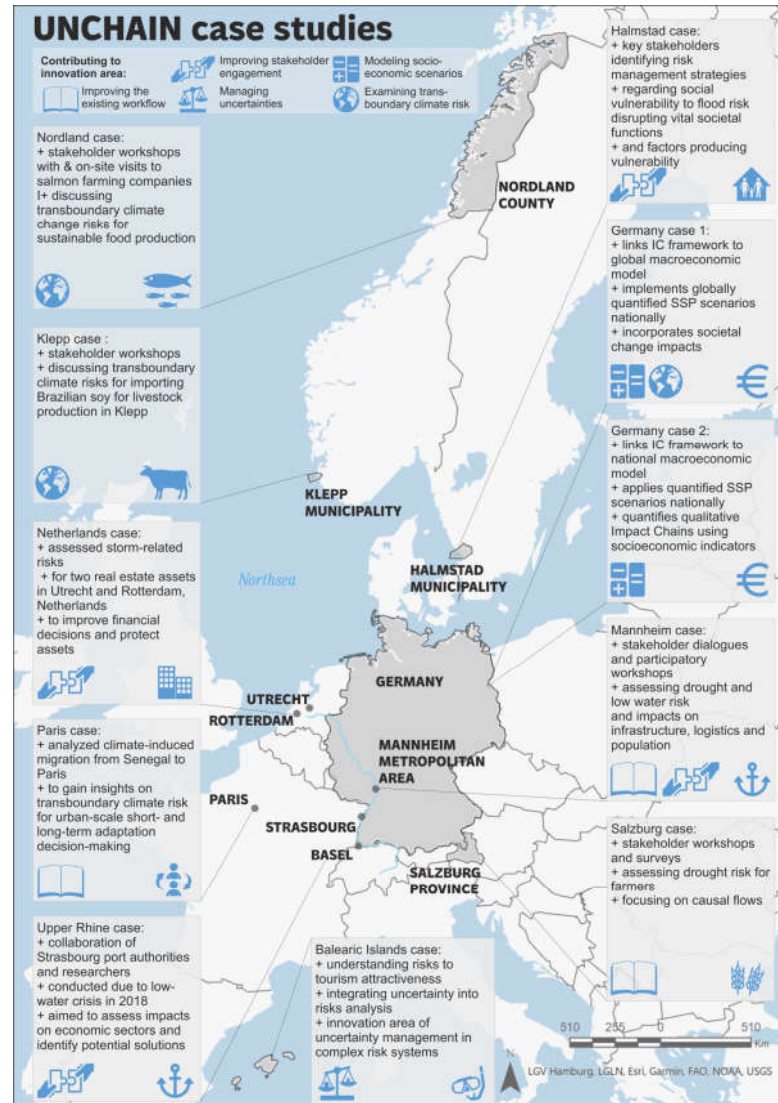


Research topics and innovations



- **Societal transformation**
 - As opposite to ‘adjustments of society’, implying “(t)he altering of fundamental attributes of a system (including value systems; regulatory, legislative, or bureaucratic regimes; financial institutions; and technological or biological systems)” (IPCC, 2012:4)
- **Co-production of knowledge (CPK)**
 - Systematically integrate CPK into Impact Chain modelling to better account for different views on desirable and equitable climate resilient futures
- **Societal change**
 - Accepting that CC adaptation needs to go beyond projections from deterministic or probabilistic climate models, and must include also scenarios for societal, economic and political development (Moss et al, 2010)
- **Climate uncertainty**
 - Rather than trying to ‘master’ uncertainty, develop ways to better ‘manage’ it (Schneider and Kuntz-Duriseti, 2002)
- **Transboundary climate risks**
 - Expanding the logic of Impact Chain to include also ‘imported’ (from other countries) climate risks (Benzie et al, 2016)
- **Linking mitigation and adaptation**
 - As both mitigation and adaptation efforts are expected to gradually become more substantial, it is reasonable to expect that negative interaction between the two streams of action will increasingly occur (Santarius et al, 2016)

The UNCHAIN cases



Source: Petutschnig et al. (2023)

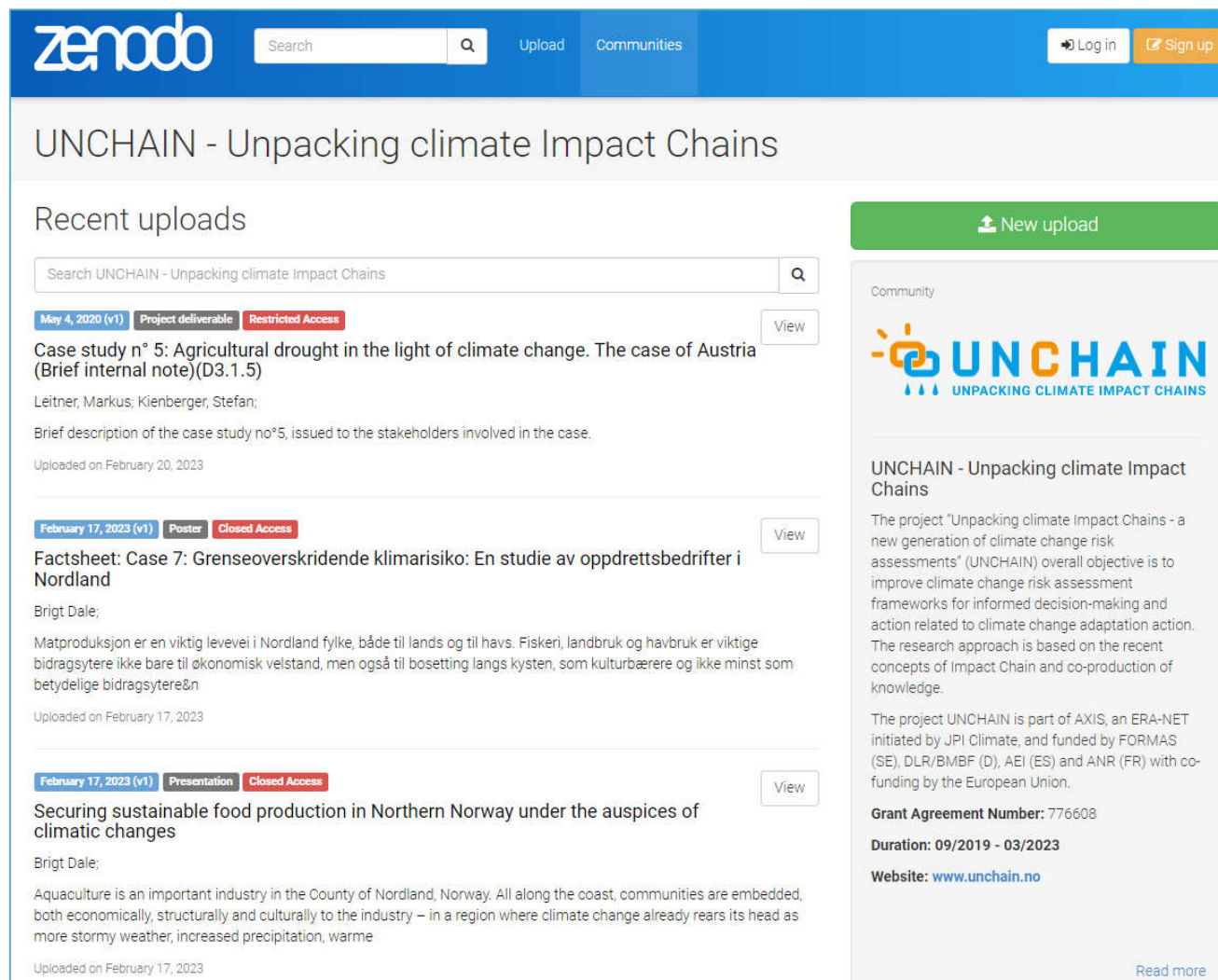
Recommendations

- **Co-production**
 - Policymakers and relevant stakeholders should engage throughout the climate risk assessment process, to co-develop climate information and solutions that capture their needs, knowledge and perspectives and that account for social vulnerability and equitable adaptation.
- **Smartness**
 - Policymakers can make adaptation “smarter” by using the Impact Chain approach to analyse both conventional local climate risks and lesser well-known transboundary climate risks.
- **Uncertainty**
 - Policymakers should embrace uncertainties by applying a reflect-then-act rather than the predict-then-act approach
- **Societal change**
 - Policymakers should systematically include socio-economic scenarios for a range of possible developments in the same way as scenarios for climate change when analyzing climate risk
- **Transboundary climate risks**
 - International actors can invest in method innovation, data collection and decision-support tools to identify and assess transboundary climate risks. They should also foster greater cooperation in adaptation planning and implementation across jurisdictions.



<https://www.sei.org/wp-content/uploads/2023/06/unchain-eu-action-brief-sei2023.035.pdf>

More information



zenodo Search Upload Communities Log in Sign up

UNCHAIN - Unpacking climate Impact Chains

Recent uploads

Search UNCHAIN - Unpacking climate Impact Chains

May 4, 2020 (v1) Project deliverable Restricted Access View

Case study n° 5: Agricultural drought in the light of climate change. The case of Austria (Brief internal note)(D3.1.5)

Leitner, Markus; Kienberger, Stefan;

Brief description of the case study no°5, issued to the stakeholders involved in the case.

Uploaded on February 20, 2023

February 17, 2023 (v1) Poster Closed Access View

Factsheet: Case 7: Grenseoverskridende klimarisiko: En studie av oppdrettsbedrifter i Nordland

Brigt Dale;

Matproduksjon er en viktig levevei i Nordland fylke, både til lands og til havs. Fiskeri, landbruk og havbruk er viktige bidragsyttere ikke bare til økonomisk velstand, men også til bosetting langs kysten, som kulturbærere og ikke minst som betydelige bidragsyttere&n

Uploaded on February 17, 2023

February 17, 2023 (v1) Presentation Closed Access View

Securing sustainable food production in Northern Norway under the auspices of climatic changes

Brigt Dale;

Aquaculture is an important industry in the County of Nordland, Norway. All along the coast, communities are embedded, both economically, structurally and culturally to the industry – in a region where climate change already rears its head as more stormy weather, increased precipitation, warme

Uploaded on February 17, 2023

UNCHAIN - Unpacking climate Impact Chains

Community

 UNCHAIN
UNPACKING CLIMATE IMPACT CHAINS

UNCHAIN - Unpacking climate Impact Chains

The project "Unpacking climate Impact Chains - a new generation of climate change risk assessments" (UNCHAIN) overall objective is to improve climate change risk assessment frameworks for informed decision-making and action related to climate change adaptation action. The research approach is based on the recent concepts of Impact Chain and co-production of knowledge.

The project UNCHAIN is part of AXIS, an ERA-NET initiated by JPI Climate, and funded by FORMAS (SE), DLR/BMBF (D), AEI (ES) and ANR (FR) with co-funding by the European Union.

Grant Agreement Number: 776608

Duration: 09/2019 - 03/2023

Website: www.unchain.no

[Read more](#)

Carlo Aall, caa@vestforsk.no