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Assessment of Cross(X) - sectoral climate Impacts and pathways for Sustainable transformation (AXIS)



Newsletter "Outcomes of the 10 funded projects under AXIS programme"

Introduction

The ERA-NET "Assessment of Cross(X) - sectoral climate Impacts and pathways for Sustainable transformation" - AXIS which aimed at breaking down barriers between scientific communities, has officially come to an end. In 10 projects with 60 partners, the consortium promoted cross-border and cross-community research to improve the coherence, integration and robustness of climate impact research and to link it to societal needs.

Find out more about the highlights of the inter- or transdisciplinary research projects below.

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Assessing climate-led social-ecological impacts and opportunities for resilient pathways in the EU bioeconomy

BIOCLIMAPATHS

BIOCLIMAPATHS developed a cross-sectoral methodology for assessing supply chain risks and vulnerabilities of the EU bioeconomy due to intensifying climate extremes. The method links climate, crop, socio-economic, and agent-based models to understand the non-linear, spatial and interconnected impacts of climate extremes on crop yields, crop supply and monetary output at the (sub-)national level.

Key findings and more [here](#)



Climate damage and climate policy in heterogeneous societies

CHIPS

Climate change impacts as well as climate policy measures like carbon pricing affect households differently, depending on characteristics like income, exposure or ability to adapt. Thereby, climate change may increase inequalities between and within countries. CHIPS aimed to better understand and quantify these distributional consequences, globally but also in selected regions like the EU and Latin America. The overarching goal was to develop transformation scenarios capturing both mitigation and damages and their distributional consequences, allowing to analyze policies to counteract effects which increase inequality.

Key findings and more [here](#)

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Cross-sectoral impact assessment of droughts in complex European basins

CROSSDRO

The CROSSDRO project conducted research into the impacts of droughts across various sectors and geographical scales. It employed diverse methodologies, including meteorology, hydrology, and remote sensing, to analyze drought effects regionally and continentally. The findings revealed the intricate nature of drought impacts, which varied depending on sectors, geographic locations, and climatic conditions.

Key findings and more [here](#)



Evaluating sediment Delivery Impacts on Reservoirs in changing climate and society across scales and sectors

DIRT-X

The project DIRT-X investigated how the changing climate and socioeconomic conditions influence water reservoirs and the services they provide to different economic sectors. We analysed hydrological processes across spatial scales and temporal scales under the current and future climate and socioeconomics. The integration of hydrological process models with economic models assessing energy systems then translated water resource impacts into economic consequences and energy production, focusing on renewable energy sources.

Key findings and more [here](#)

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Land Management for Climate Mitigation and Adaptation LAMA CLIMA

The LAMA CLIMA project aimed to understand the interconnected effects of land-use and climate change and develop strategies for sustainable global land use aligned with the Paris Agreement and broader sustainability goals. It brought together climate scientists, economists, experts in statistical methods or stakeholder engagement to study the impacts of changes in land cover and management on climate variables, water availability, and heat stress through Earth System Model experiments.

Key findings and more [here](#)



Multisectoral analysis of climate and land use change impacts on pollinators, plant diversity and crops yields

MAPPY

The main objectives of MAPPY were: to perform climate and land cover change projections in selected areas of Western Europe up to the 2070 horizon, and, assess the impact of these combined climate and land cover modifications on agricultural yields, forest ecosystems, and pollinator diversity. TIn the face of climate change and human pressures on ecosystems, we need to rethink our land management practices. The results of the study are used to raise awareness among professionals in the agricultural sector and managers of natural areas, so that they can make informed changes.

Key findings and more [here](#)

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Targeting Mental Models of Climate Change Risk to facilitate Climate Action MECCA

How do different stakeholders perceive the causes and consequences of climate change and what risks do they identify? And how these perceptions align with natural science-based knowledge? MECCA investigated these questions in Lagos and at Lake Victoria. The starting point was specially developed bio-physical models of how the climate is currently influenced by natural and anthropogenic (human-made) factors. Adaptation and mitigation strategies have been identified by analysing the correspondence between stakeholders' perceptions of climate change and the risks and impacts projected by the simulated future scenarios.

Key findings and more [here](#)



NorthWesternPaths

Pathways to sustainable food and land use futures NorthWesternPaths

Institutions from Norway, Germany, Sweden and Finland designed pathways towards sustainable food and land use systems consistent with the 2030 Agenda for the sustainable development goals (SDGs) and implementation of the Paris Climate Agreement. The aim is to identify the extent of policies actions and transformations needed for reducing food waste, management of land and water resources, type of dietary shifts, sustainable intensification of agriculture and trade, enable countries to meet national climate, biological conservation, water quality, and public health commitments.

Key findings and more [here](#)

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Sustainable development pathways achieving Human well-being while safeguarding the climate And Planet Earth

SHAPE

Which system transformations will allow to meet the Sustainable Development Goals (SDGs) and the Paris climate targets simultaneously? The SHAPE project provided an in-depth analysis of interactions between climate change mitigation strategies and the broader SDG target space. Based on this, the SHAPE team and a group of different stakeholders around the world co-created five new scenario narratives to describe different pathways to achieve these goals

Key findings and more [here](#)



How do local authorities, businesses and residents, as well as sub-national and national authorities, NGOs and transnational organisations, make decisions on climate change adaptation? The UNCHAIN project aims to improve the climate change risk assessment framework to enable local actors to make informed decisions and take action to adapt to climate change. The research approach is based on the existing concepts of the impact chain and insights from the practice of co-production of knowledge. To support climate change adaptation capacity building, UNCHAIN has involved a wide range of actors.

Key findings and more [here](#)

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