"Transboundary Cooperation in Flood and Drought management"

A. Touraine Andersson*, J. Vinke-de Kruijf, C. de Boer | University of Twente, Netherlands Department of Civil Engineering & Management – Integrated Project Delivery

JCAR ATRACE

Introduction

JCAR ATRACE is The Joint Cooperation program on Applied scientific Research (JCAR). The project aims to improve the cooperation on flood and drought management and research in the Benelux region to Accelerate Transboundary Regional Adaptation to Climate Extremes (ATRACE), together with researchers, policymakers, partitioners and stakeholders across the regions.



Aim and objective

Rapid climate change is now a reality. The uncertainty associated with climate change has triggered an increased demand for integrated flood and drought management on the river basin level. This requires governments to work collaboratively beyond political borders. This project aims to support the development of effective, integrated flood and drought management, though a deepened understanding of how to maximize the effectiveness of transboundary collaboration.

This project will run from 2024 to 2028

Driving Question:

To what extent and under which conditions do different forms of cooperation mechanisms contribute to improved flood and drought risk management in transboundary regional river basins?

How does this change throughout the disaster risk management cycle?

Study Area

Approach

The project is a collaboration with policymakers, practitioners, stakeholders and



Figure 1.3: Regional river basin regions in JCAR-ATRACE; other river basin research sites in participating countries may be added

The study area spans across Netherland, Belgium, Luxemburg and West Germany covering four regional river regions:

North Bramant – Flanders (Maasbekken) river basins (1-4)

Limburg – Belgium (Maasbekken) river basins (5-7)

Limburg – Nord-Rhein Westfalia(Maas nord and Maas Sud) river basins (8-14)

Vecht-Achterhoek (Delta-Rhine Ost) river basins (15-20) researchers. With the aim to produce applicable knowledge, the project is driven by participatory approaches, culminating in a co-creation process to develop action perspectives to implement the learnings from the project



Expected Outcome

•Identification of Key Collaboration Types, Mechanisms, and Conditions for Flood and drought management on regional basin scale. The research aim to produce a

comprehensive inventory of existing collaboration forms and mechanisms and identify effective types of collaboration under different stages of the disaster management cycle.

•Strategic Use of Opportunities: The project will provide insights into how researchers and stakeholders can strategically employ collaboration within existing frameworks to enhance flood and drought risk management.

•Co-created Strategies for Improved Governance: By engaging stakeholders, the research will co-create actionable strategies to improve transboundary

collaboration, specifically tailored for more effective flood and drought management.





Contact: a.touraine@utwente.nl