

# **Societal transformation and adaptation necessary to manage dynamics in flood hazard and risk mitigation (TRANS-ADAPT)**

**Leading Principal Investigator:** Assistant Professor Sven Fuchs, University of Natural Resources and Life Sciences, Austria

## **Principal Investigators:**

Dr Dries L.T. HEGGER, Utrecht University, the Netherlands

Conor MURPHY, National University of Ireland Maynooth, Ireland

Dr Mathilde GRALEPOIS, Université de Tours, France

## **External partners:**

Prof Dr Peter P.J. DRIESSEN, Utrecht University, the Netherlands

Heleen MEES, Utrecht University, the Netherlands

Thomas THALER, Middlesex University, London

Elsa RICHARD, Université de Tours, France

Mathieu BONNEFOND, Université de Tours, France

Sylvie SERVAIN-COURANT, Université de Tours, France

## **Project Summary:**

Facing the challenges of climate change adaptation, TRANS-ADAPT aims to analyse and evaluate the multiple use of flood alleviation schemes with respect to social transformation in communities exposed to flood hazards. The overall goals are (1) to identify indicators and parameters necessary for strategies to increase societal resilience, (2) to analyse the institutional settings needed for societal transformation, and (3) to assess the perspectives of changing divisions of responsibilities between public and private actors necessary to arrive at more resilient societies. Yet each risk mitigation measure is built on a narrative of exchanges and relations between people and therefore may condition the outputs. As such, governance is done by people interacting and defining risk mitigation measures as well as climate change adaptation are therefore simultaneously both outcomes of, and productive to, public and private responsibilities. Building off current knowledge this project will focus on different dimensions of adaptation and mitigation strategies based on social, economic and institutional incentives and settings, centring on the linkages between these different dimensions and complementing existing flood risk governance arrangements. The policy dimension of adaptation, predominantly decisions on the societal admissible level of vulnerability and risk, will be evaluated by a human-environment interaction approach using multiple methods and the assessment of social capacities of stakeholders across scales. As such, the challenges of adaptation to flood risk will be tackled by converting scientific frameworks into practical assessment and policy advice. In addressing the relationship between these dimensions of adaptation on different temporal and spatial scales, this project is both scientifically innovative and policy relevant, thereby supporting climate policy needs in Europe towards a concept of risk governance.