

# Joint Cooperation programme for Applied scientific Research

Accelerate Transboundary Regional Adaptation to Climate Extremes

Joint structural policy-relevant research on flood and drought risk management in regional river basins



# Context

- Rare extreme events, a.o. July 2021 in regional river basins
- Climate change seems to accelerate, we need to speed up adaptation
- Upstream-downstream dependencies in managing extreme flood and drought events
- Together we know more = joint knowledge base
- Fostering long-term cooperation
- Needs both a community and a plan

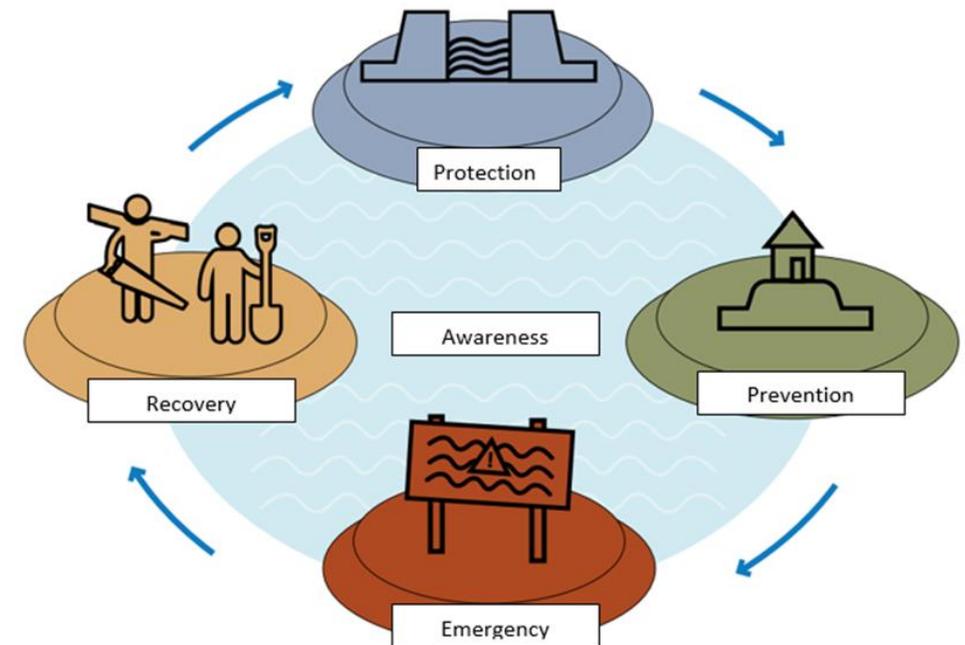
# Main objectives

## Objective 1: Preparing for Future Water Challenges

- Facilitate European regional governments on transboundary flood and drought risk management of smaller regional river basins;
- Enhance integrated planning, development and management.

## Objective 2: Knowledge cooperation

- Support the development of an international expert community on flood and drought risks in regional river basins;
- Fostering long-term partnerships between European knowledge institutes and enhance the knowledge base to inform strategies on mitigation and adaptation



# Two pillars

Joint consultation

Joint knowledge base

Joint knowledge agenda

Policy-relevant studies to support knowledge base

**Pillar I**  
**Preparing for Future  
Climate Extremes**

Research activities

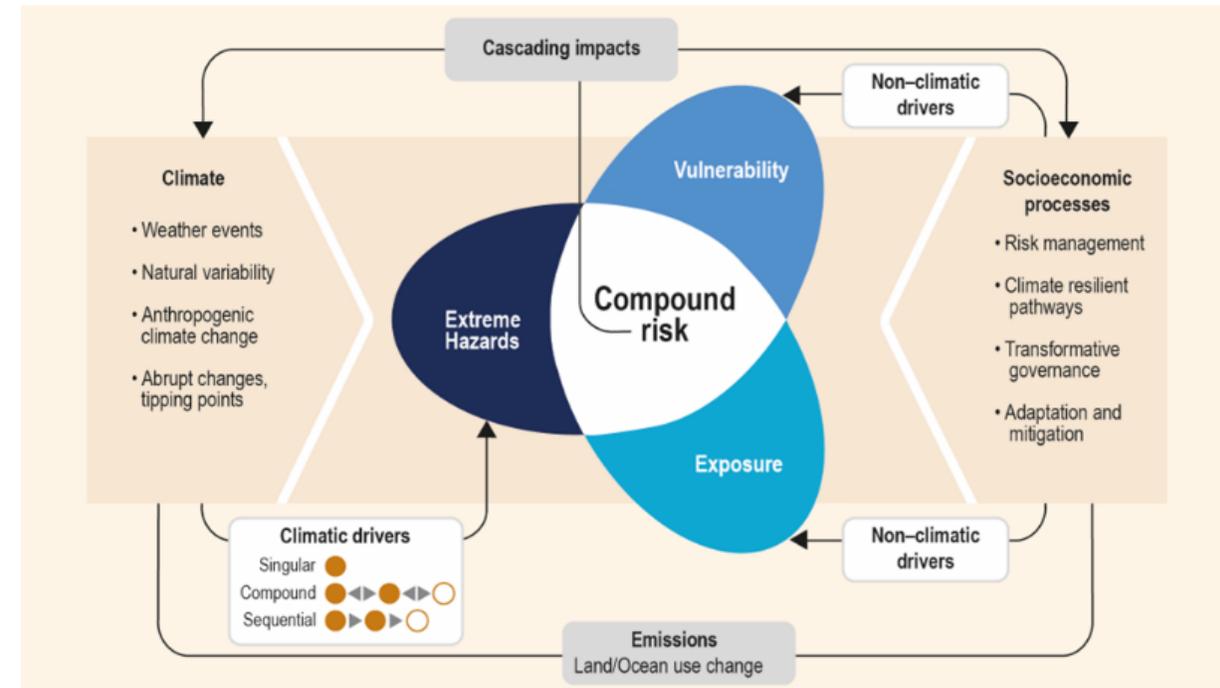
Knowledge sharing

Expert community building

**Pillar II**  
**Knowledge cooperation**

# Main scope

- Regional river basins
- Extreme hazards, exposure, vulnerability
- Interactions floods and droughts (management)
- Management options
- System-based: Upstream - downstream dependencies



# First joint research activities

- State-of-the-basin scoping studies: what urgent policy-relevant research questions can be picked up?
- Joint regional river basin stress test approach development
- Reservoir management under extreme conditions
- How do the countries deal with future climate change in infrastructure design and implementation?
- Improve flood vulnerability and damage estimates of assets and critical infrastructure
- Evolution of flood and drought risk: lessons for the future
- How to assess the effectiveness of NBS under extreme events

# More information

## Regional focal points

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## Programme management

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Programme will span a period from 2023-2028