Risk-Tandem: blending risk governance and knowledge co-production to enhance disaster and climate resilience

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Disaster Resilience for Extreme Climate Events providing Interoperable Data, Models, Communication and Governance

The DIRECTED Mission

Overcome silos between technical and political authorities of all levels, including organizations, sectors and disciplines by improving communication among Disaster Risk Management (DRM) and Climate Change Adaptation (CCA) actors while supporting 2 Interoperability.

Build capacity and partnerships through collaboration between involved actors that last beyond the project in 3 Real World Labs.

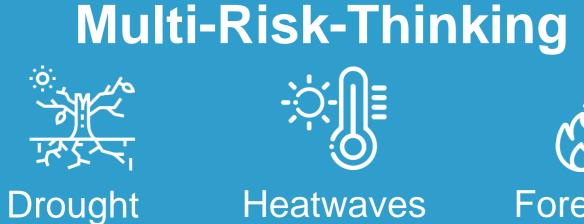
Promote Multi-Risk-Thinking with the novel transdisciplinary multirisk governance framework for climate extremes 4 Risk-Tandem.

Exploit open data and open science, improving capabilities for more effective decision making, including knowledge and tools developed within past, present and future research initiative in our 5 Data Fabric.

The DIRECTED team of 18 partners in 8 European countries in cooperation with local stakeholders persue this mission from 2022-2026.

This.

Floods

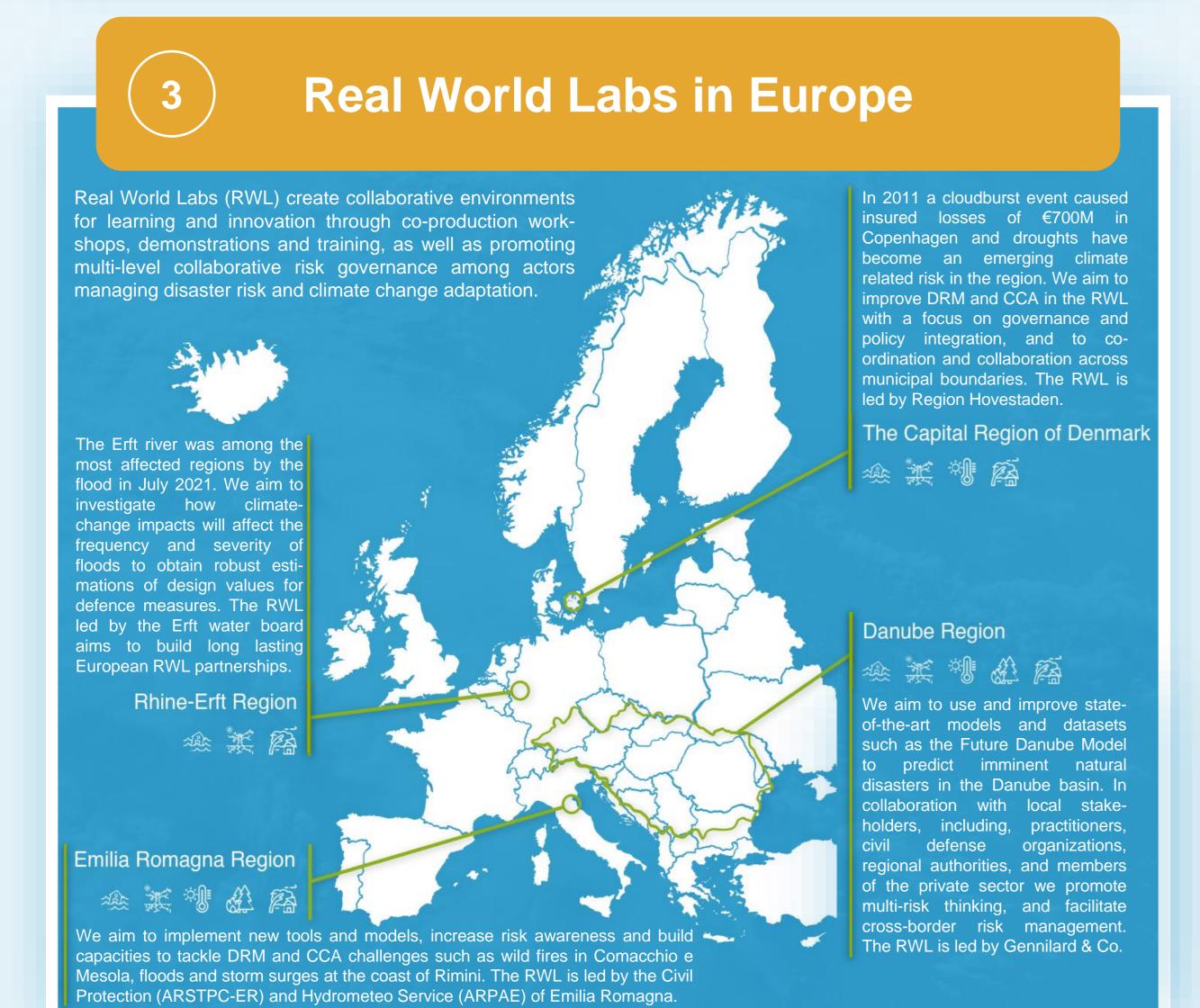


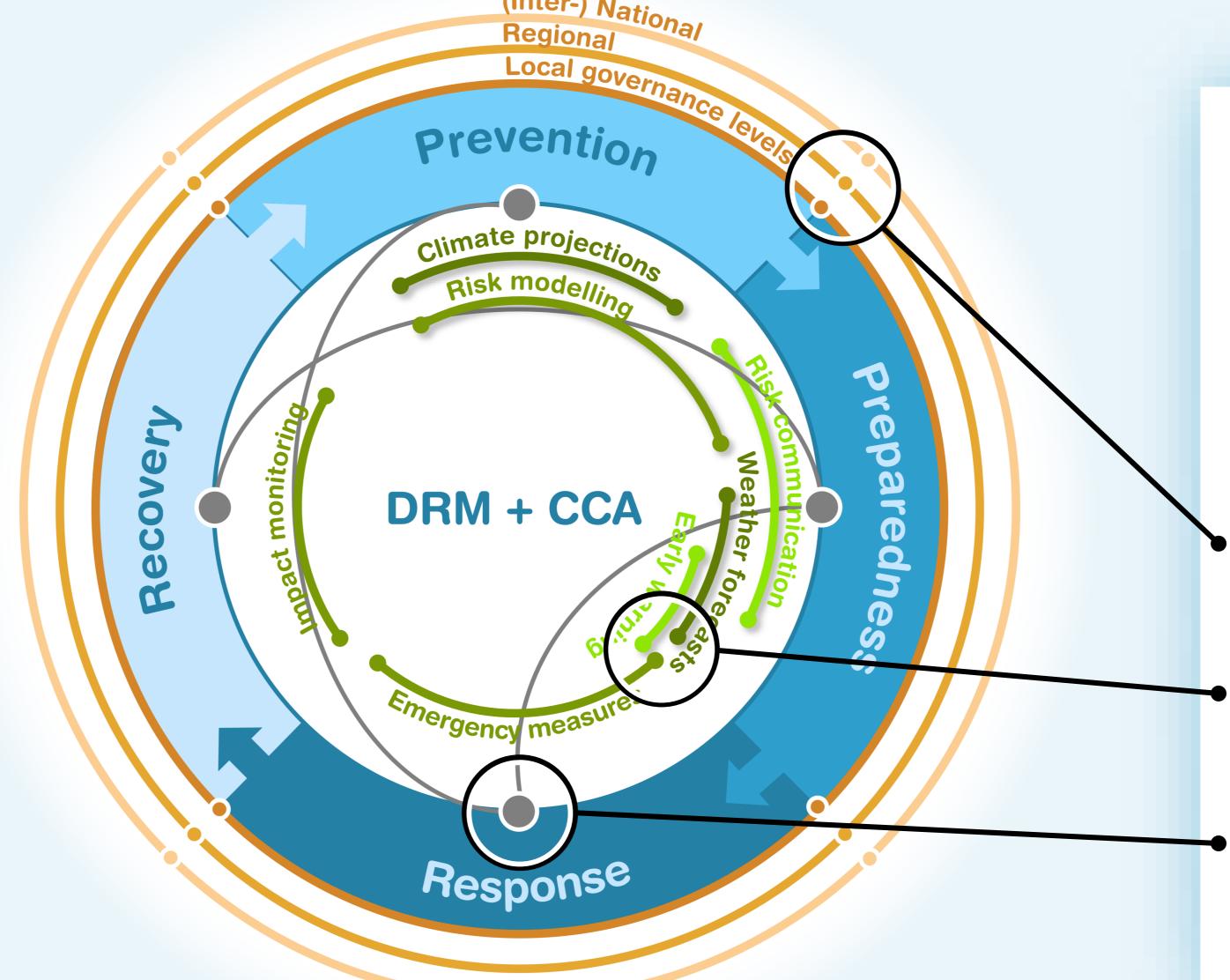












Interoperability Concept

On the way to a disaster-resilient society, the DIRECTED project overcomes silos, develops capacities and sustainable cooperation, strengthens multi-risk thinking, utilizes synergies, and promotes the concept of Interoperability. This is accomplished by researching, reviewing and improving existing taxonomies, data standards, APIs and frameworks in the DRM and CCA. The iterative co-production approach of the Risk Tandem Framework ensures that the needs of our RWLs are at the center of all developments. We focus on:

Governance Interoperability:

Increase cooperation across institutions, sectors and scales of all actors in DRM + CCA

Data and model interoperability:

Supporting the use of interconnected models for decision making in different phases of DRM + CCA

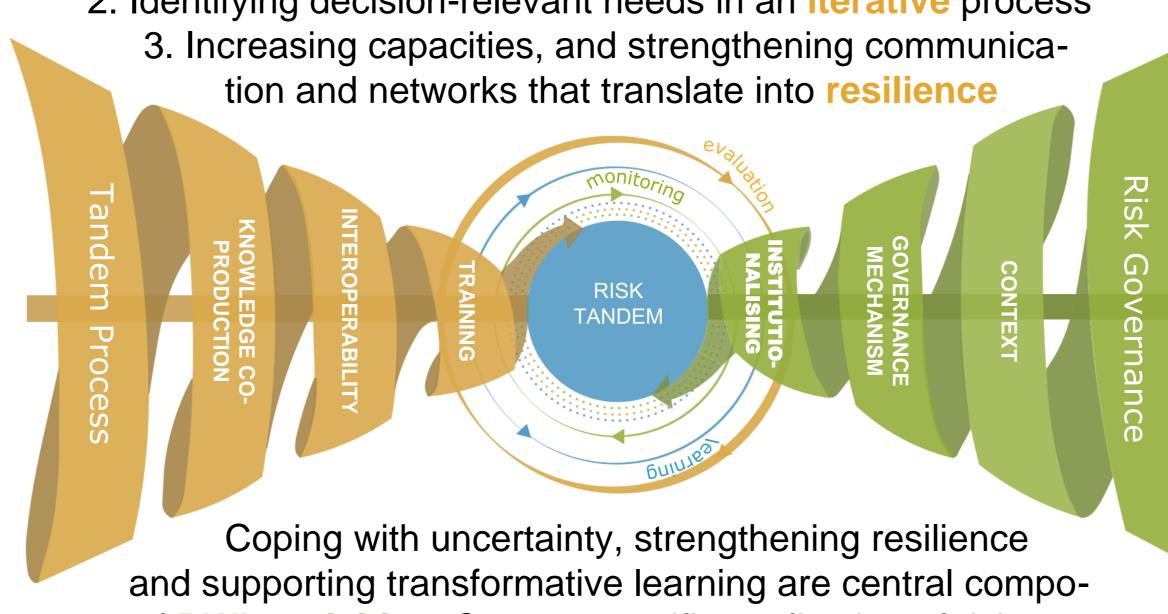
Information interoperability:

Improving the integration and flow of information between the different phases of DRM + CCA

Risk-Tandem Framework

Risk Tandem combines co-production approaches with risk governing frameworks to develop DRM & CCA solutions with stakeholders by:

- 1. Connecting knowledge via co-production and co-exploration
- 2. Identifying decision-relevant needs in an iterative process



nents of RWL activities. Context specific application of risk management tools and approaches (IRGC Risk Gov. Framework, Risk Layering approach, SHIELD model) will support Risk Governance in RWLs.



Data Fabric

We develop an integrated yet federated system, that connects different instances and data sources on premises, public and private clouds under a centralized platform interface. The DIRECTED Data Fabric will be flexible to adapt to changing CCA and DRM requirements in terms of data, models and visualisations. We make use of open source software and standards such as GeoNode and OGC.

