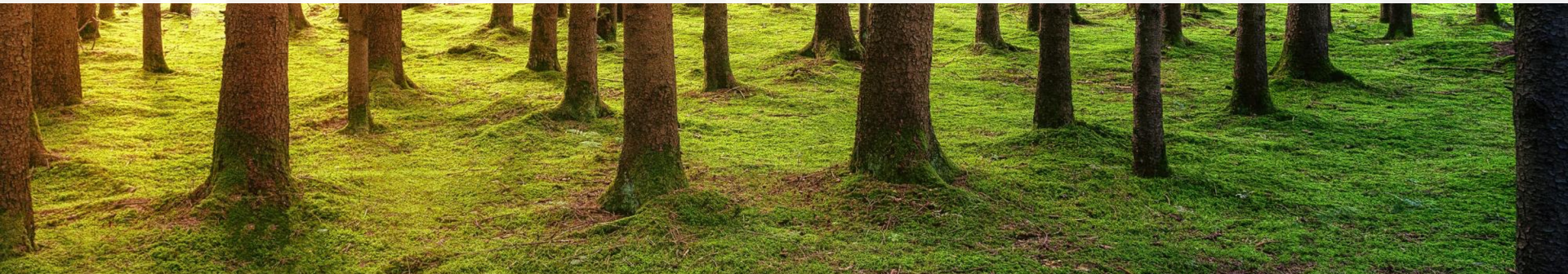




Connecting Data and Models across Stakeholders, Science, Industry, and Government for better CCA and DRR

GKI Summit, Session 5: Collaborative models for fit-for-purpose knowledge co-creation
Dr. Benedikt Gräler, 52°North GmbH



- non-profit private research company in the field of Geoinformatics
- participating in publicly funded R&D projects
- providing professional services to develop (mostly) open source solutions
- fostering open science through open data and open source software
- supporting education in the field of Geoinformatics
- contributing to the solution of societal and environmental challenges through geoinformation technologies


Shareholders:



UNIVERSITY
OF TWENTE.

con•terra





DIRECTED - **D**isaster **R**esilience for **E**xtr**e**m**e** **C**lima**T**e **E**vents
providing interoperable **D**ata, models, communication and
governance

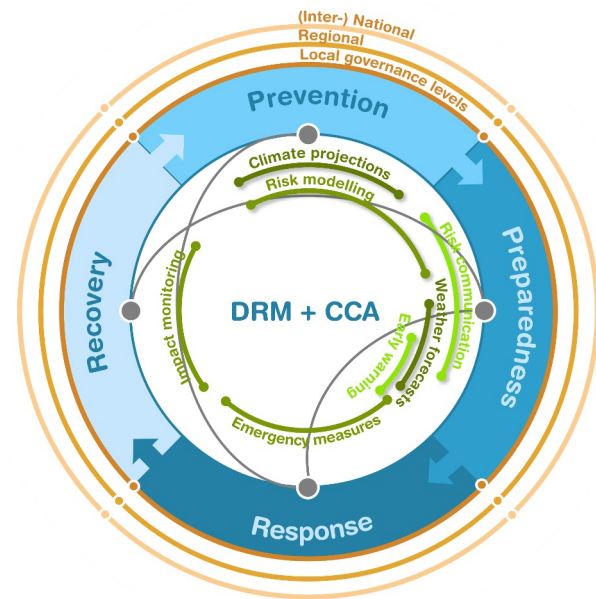
The Directed Project project

Objectives:

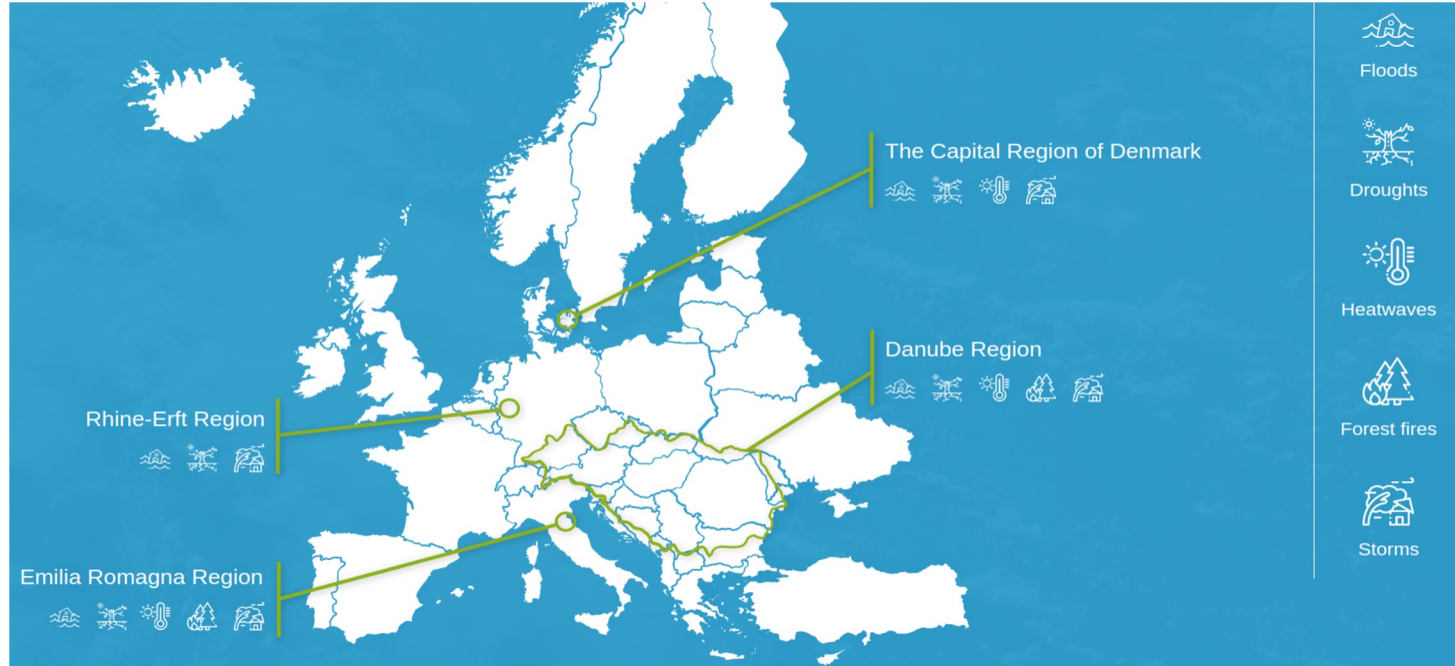
- fostering capabilities to communicate, utilise and exchange data, information and knowledge between different actors
- boosting the integration, accessibility and interop. of models
- facilitating knowledge sharing
- access, transform and integrate data and models into customized workflows for creating actionable solutions for multi-hazard risks

Tools:

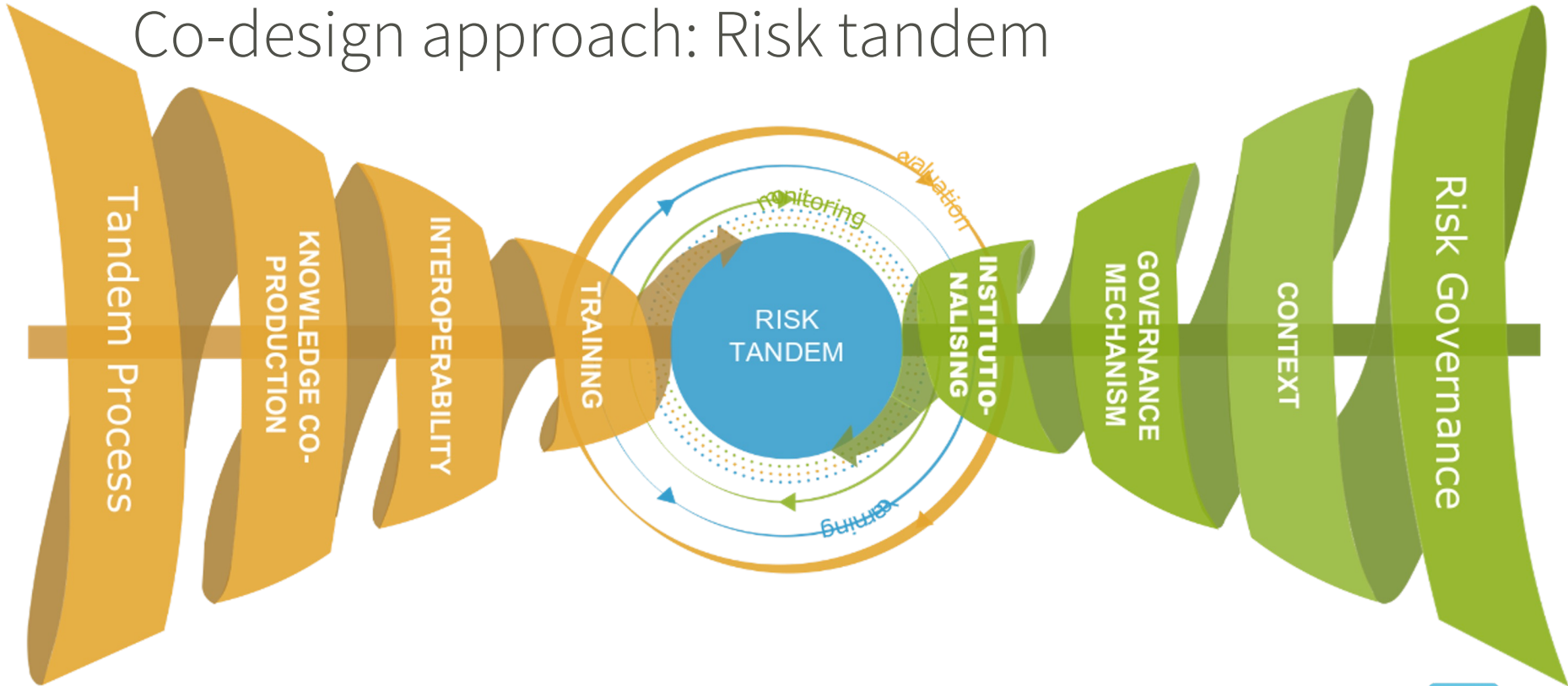
- Available (large-scale) climate services
- local data and knowledge
- co-design with 4 living labs
- scientific expertise
- development of an open source API-based federated platform



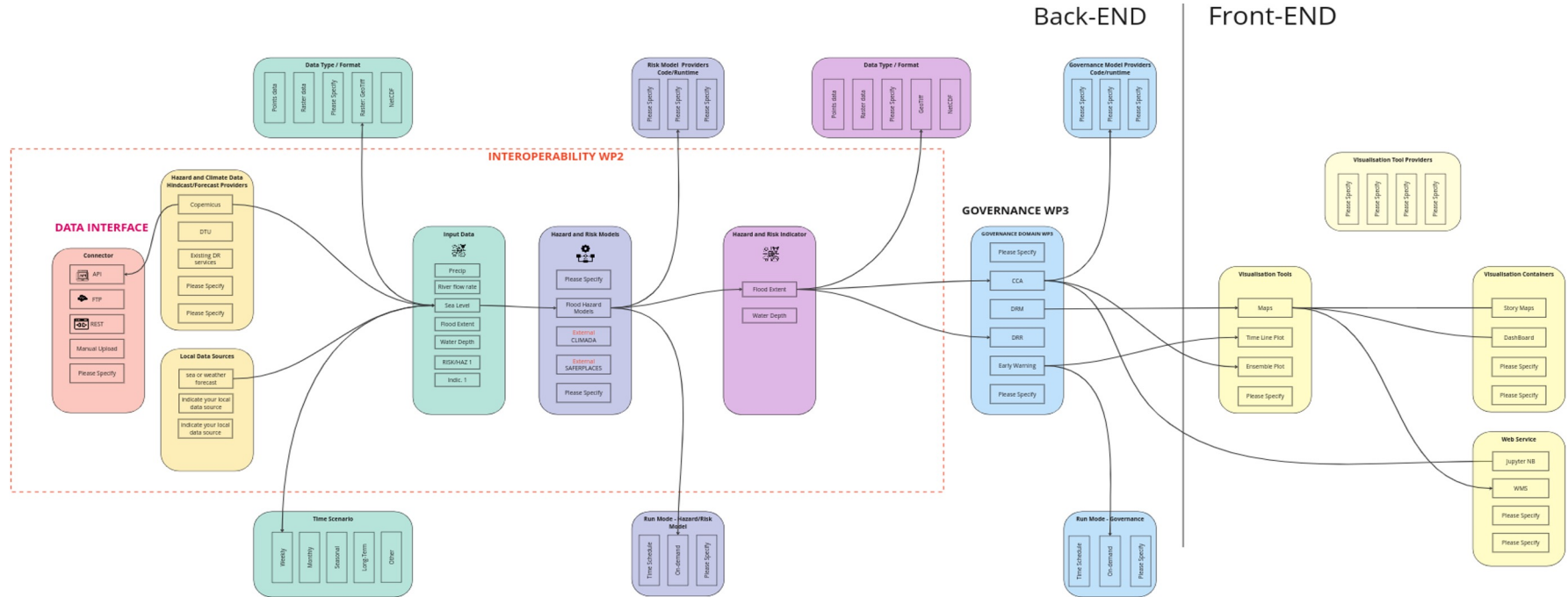
Real World Labs and their hazards



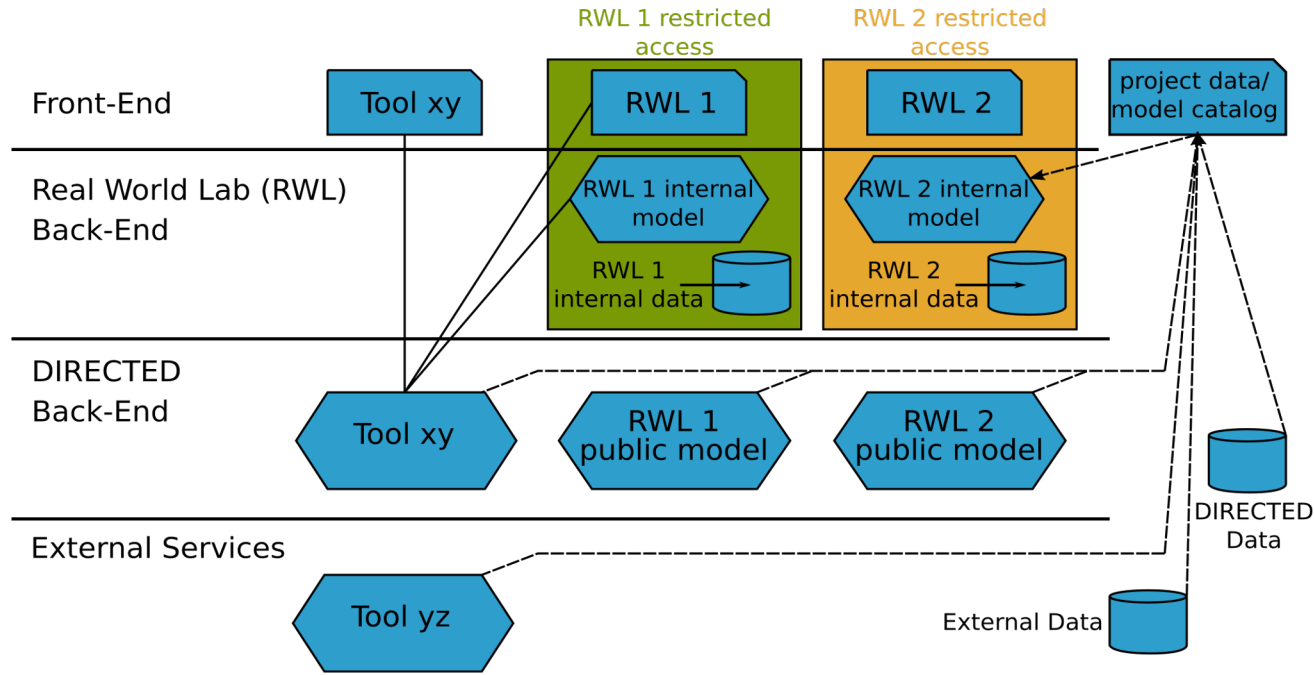
Co-design approach: Risk tandem



RWL interview template



Federated cloud platform [v0]



Requirements

- a common and harmonized data source (central interface to decentralized and federated data)
- integrated data across data silos
- ability to discover, connect and share models for processing (within a cloud platform, but also externally)
- chain data, models and visualization tools in a flexible way
- tailored information views on the same data for different stakeholders
- very good understanding of the stakeholders' needs (co-design)

→ turning data into information into knowledge to take the *right* actions



Thanks for your attention



directedproject.eu

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