



# TransformAr

## Accelerating and upscaling transformational adaptation in Europe:

### DEMONSTRATION OF WATER-RELATED INNOVATION PACKAGES

#### Challenges

"Climate change is happening today, so we have to build a more resilient tomorrow". The latter is stated in the new EU Strategy on Adaptation to Climate Change (2021).

The IPCC report on Impacts, Adaptation and Vulnerability (AR6, 2022) shows that although progress in adaptation across all sectors and regions has been observed, many initiatives prioritize immediate and near-term climate risk reduction which reduces the opportunity for transformational adaptation.

#### What will TransformAr do?

The project will develop an adaptive process based on open innovation, user-friendly and accessible climate data services, actionable solutions and large-scale experimentation. This will be supported by the implementation of Innovation Packages built to increase communities' social and climate resilience.

#### Objectives and impact

- **Communicate** the Transformational Adaptive Blocks across any region or community in Europe wanting to tackle Transformational Adaptation (TA);
- **Deliver** user-friendly, accessible and comprehensive multi-sector dynamics data services relevant to transformational adaptation and its water-related challenges and fit the needs of public and private;
- **Test** the potential of specific innovations to enable rapid and far-reaching change in the resilience of demonstrators;
- **Accelerate** investment for Transformational Adaptation across the EU by means of demonstrating bankability and innovative financial schemes;
- **Consolidate** a catalogue of solutions and IPs, associated guidance documents, and an understanding of the acceptance and preference of citizens of solutions for transformational adaptation.

#### Expected results

- **Support** the European Green Deal targets, in particular the new EU Strategy on Adaptation to Climate Change, the EU Mission Climate Adaptation, the EU biodiversity, bioeconomy and circular economy strategies, the objectives of the Union Civil Protection Mechanism, as well as the Clean Air Programme for Europe.
- **Contribute** to the economic restart from the Covid-19 crisis and foster transformative change across all regions and sectors of society to increase climate resilience.
- **Contribute** to social acceptance and social resilience.
- **Increase** the community's resilience and capacities to cope with unavoidable effects of climate change.

#### 6 demonstrators



##### City of Lappeenranta, Finland

- ✦ **Main focus:**
- Urban runoff system to deal with stormwater
- Ecosystems and Nature-based Solutions



##### Gjøvik municipality, Norway

Gjøvik municipality is a follower and replicator for Lappeenranta demonstrator because of the similarities in climate vulnerability regarding urban planning and water management.



##### West Country region, UK

- ✦ **Main focus:**
- Vulnerable water business sector
- Impacted river habitat and species
- Agriculture and nutrients savings



##### Oristano, Italy

- ✦ **Main focus:**
- Nutrients load reduction and flood management
- Nature conservation for cultural and natural heritage



##### Guadeloupe Archipelago, France

- ✦ **Main focus:**
- Sustainable Tourism
- New financing models
- Agricultural models for a more diverse and resilient crops



##### Galicia region, Spain

- ✦ **Main focus:**
- Climate change impact on the mussel aquaculture
- Clam culture and shell-fishing on foot impacted by coastal oceanographic and hydrological changes



##### City of Egaleo, Greece

- ✦ **Main focus:**
- Socially vulnerable groups exposure to pollution and climate change
- Innovative solutions and urban planning for buildings and infrastructures that are not climate-proof

#### About TransformAr

 **Start date:** 01 October 2021

 **Duration:** 48 months

 **Budget:** € 12 730 322,50

 **Aim:** TransformAr will demonstrate solutions and pathways, essential for climate and social resilience to achieve rapid and far-reaching transformational adaptation (TA).

 **Project coordinator:** Prof. Jan Cools, University of Antwerp



#### A consortium of 22 partners and 12 countries



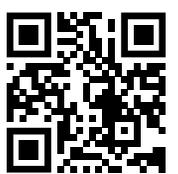
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