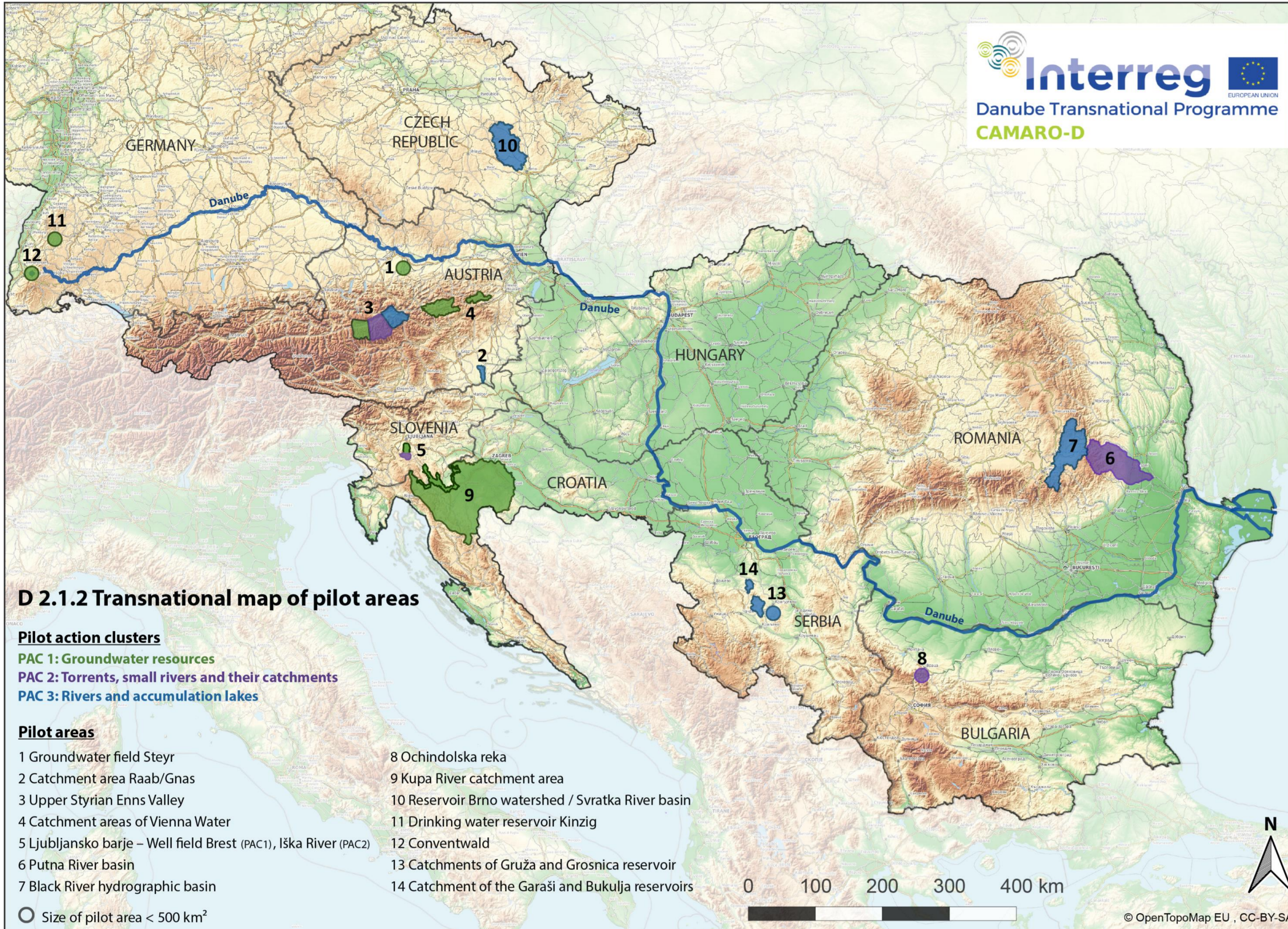


## Cooperating towards Advanced Management routines for land use impacts on the water regime in the Danube River Basin

### Pilot Areas



Pilot action clusters are based on land use & vegetation cover

### Risks

Erosion, floods, surface runoff, soil compaction & deterioration of soil quality, water pollution, invasive plant species, forest fire, unfavourable surface water and groundwater interaction, impairment of groundwater recharge and quantity, forest fires, drinking water shortage, cyanobacterial blooms and toxins in drinking water supply reservoirs, bark beetle infestation, spread of beaver populations with associated destabilisation of flood prevention dams



### Main Objectives

#### Set the frame – steer and manage

Improved land use management in Danube catchment areas taking into account the demands of water resources protection and flood prevention

#### Ensure positive impacts – harmonize and improve

Protection of water resources against negative impacts of land use and climate change adaption

#### Bring it to life –accept and apply

Coordination and harmonization of land use activities

Trans-sector and transnational cooperation between stakeholders

### Pilot Actions

**Direct interventions:** key studies, site management and monitoring, testing of tools

**Indirect interventions:** professional trainings, awareness activities



### Project Partners

- Federal Ministry of Sustainability and Tourism (A), LP
- Agricultural Research & Education Center Raumberg-Gumpenstein (A)
- Municipality of the City of Vienna, MA31 (A)
- University of Ljubljana (SLO)
- JAVNO PODJETJE KANALIZACIJA SNAGA d.o.o., Ljubana, (SLO)
- Hermann Otto Institute (HU)
- National Forest Administration (RO)
- National Meteorological Administration (RO)
- Environmental Protection Agency Covasna (RO)
- Executive Forest Agency (BG)
- Croatian Geological Survey (HR)
- Czech Technical University Prague (CZ)
- Forest Research Institute Baden-Württemberg Germany (D)
- Jaroslav Cerny Institute for Development of Water Resources (SRB), IPA

### Associated Partners

- Upper Austria Federal State, Forest Service (A), ASP
- Styrian Federal State Office Water Management, Resources and Sustainability (A), ASP
- Morava River Basin, state owned enterprise (CZ), ASP
- University of Agricultural Sciences and Veterinary medicine of Bucharest (RO), ASP
- Styrian League for Nature Protection (A), ASP
- Water Management System Covasna (RO), ASP
- Croatian Waters (HR), ASP
- Republic of Serbia, Ministry of Agriculture and Environmental Protection, Water Directorate (SRB), ASP
- Bavarian State Institute of Forestry (D), ASP

### Transnational Results

#### Best Practice Manuals

CLUSTER 1	CLUSTER 2	CLUSTER 3
Groundwater resources	Torrents, small rivers	Rivers, accumulation lakes
Groundwater protection through targeted silviculture	Tailored forest management in torrential watersheds	Adapted agriculture for optimal surface water and soil protection under climate change
Best practice restrictions for drinking water quality in agricultural land		Conversion from arable land to grassland mitigating soil erosion
Mountain grassland management towards groundwater protection	Practical guide to spatial planning in catchments and river stretches	Beaver management to protect flood prevention dams
Hydropower plants and wastewater treatment	Hydrotechnical measures mitigating flood risks & establishing of flood forecasting maps in torrential watersheds and along rivers	
Control of invasive plant species		
Awareness raising		

Catchment-based Land Use Development Plan (LUDP) & Declaration for Implementation

Transnational Guidance for stakeholders and decision makers for function orientated land use management (GUIDR)

Stakeholder toolkit

Transnational DANUBE Region partnership platform

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