



Climate-resilient water management: an EU perspective

How the EU can help local level to become more resilient to
the impacts of climate change

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GLOBE EU Event, 8 March 2023

Climate change and water

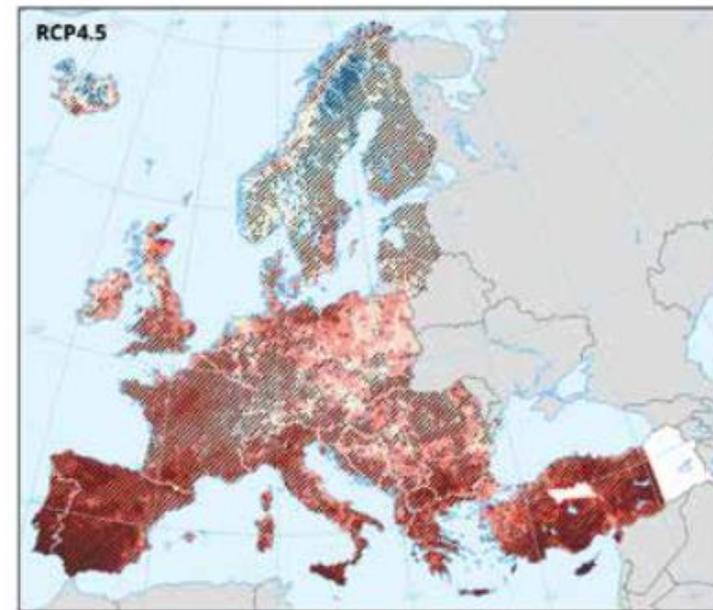
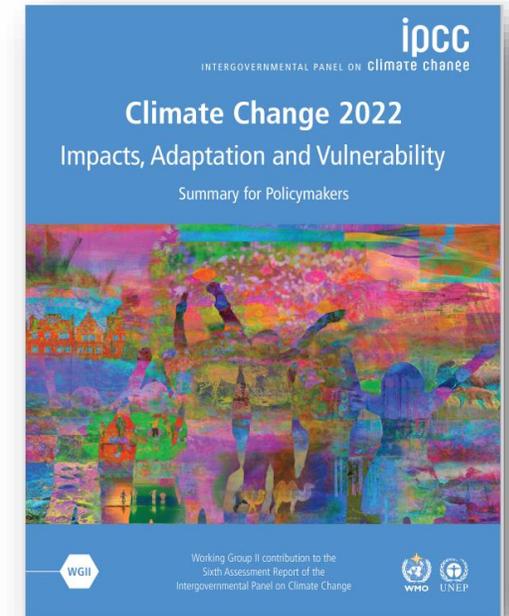
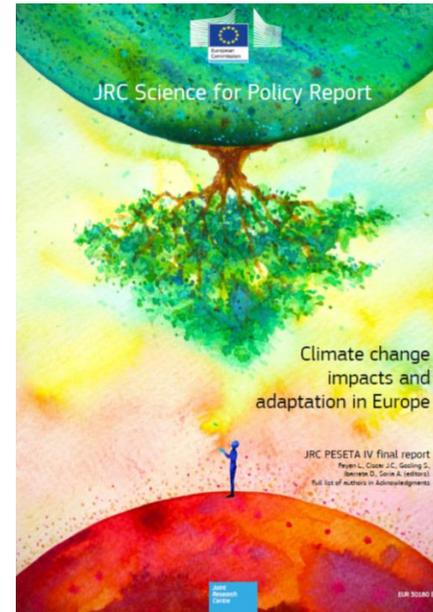
- Intensive rainfall (cloudbursts, long periods) → **pluvial & fluvial flooding**
- Sea level rise, coastal storms, intensive rainfall → **coastal flooding**
- Lack of precipitation, high evaporation, less glaciers → **extreme droughts**
- Less water available, high temperatures → **poor water quality**
- Heat waves → **health problems due to temperature and poor air quality**
- *Affect on all sectors*
- *All over Europe*

Knowledge impacts & adaptation

River floods & adaptation

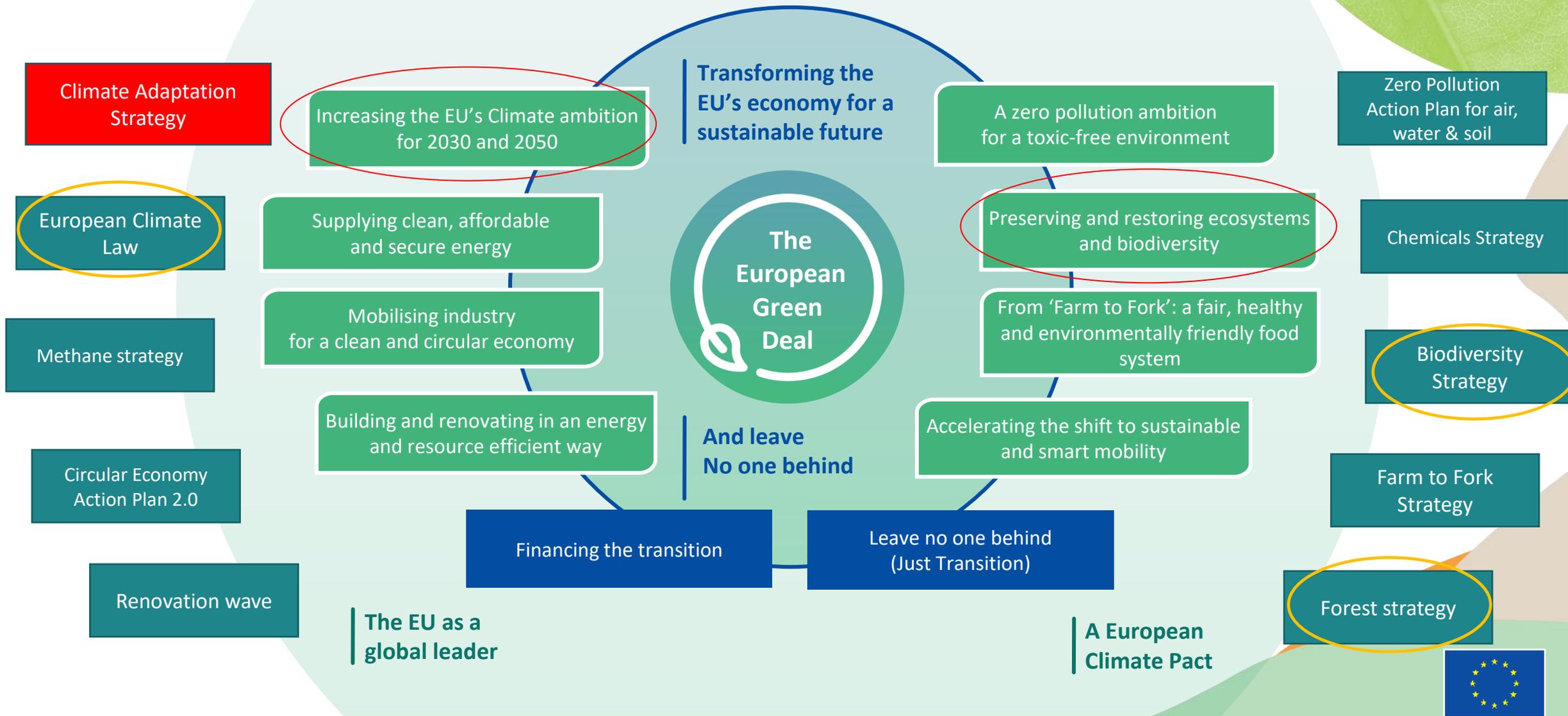
	Today	No Adapt Adapt	
		3°C	3°C
Damage (€ billion/year)	7.8	48	8.6
People exposed (1000/year)	172	482	90

Adaptation leads to 82% reduction in damage and 83% reduction in number of people exposed



Reference data: ©ESRI Data: ©European Commission. Source: Joint Research Centre

European Green Deal



The European Climate Law

- The European Climate Law (July 2021). It enshrines into legislation the new 2030 target of at least 55% net greenhouse gas emissions reduction and sets the objective of Union-wide climate neutrality by 2050.
- The European Climate Law Regulation of 30 June 2021
- Union-wide climate-neutrality objective 2050
- Towards climate-resilience by 2050
- New **2030** target of at **least 55% net** greenhouse gas emissions reduction
- Recognition of the need to enhance the EU's **carbon sink**

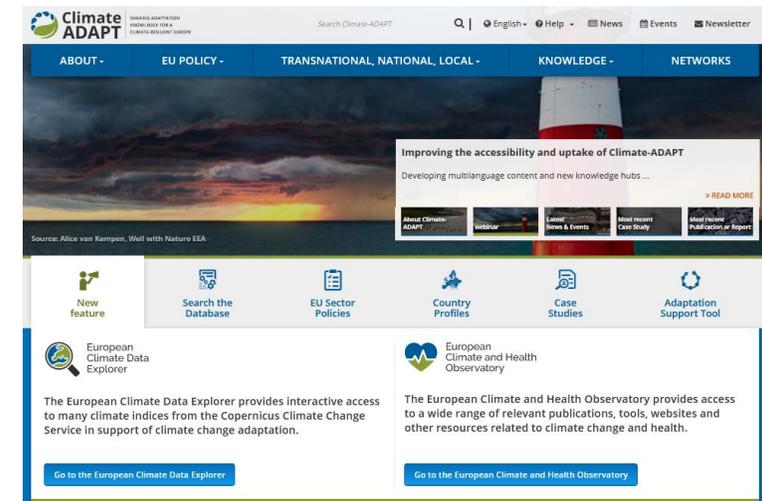
A new EU strategy on climate adaptation

- Vision: by 2050 the EU will be a climate-resilient society, fully adapted to the unavoidable impacts of climate change
- Objectives:
 - **Smarter adaptation**
 - **More systemic adaptation**
 - **Faster adaptation**
 - **Stepping up international action** for climate resilience

Smarter adaptation

improving knowledge and managing uncertainty, by

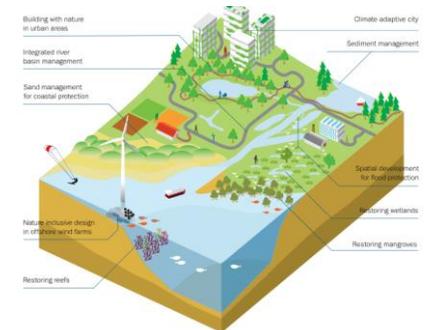
- Pushing the frontiers of **knowledge** on adaptation
- More and better climate-related **risk and losses data**
- Making **Climate-ADAPT** the authoritative European platform for adaptation knowledge



More systemic adaptation

support policy development at all levels and sectors, by:

- Improving **adaptation strategies and plans**
- Fostering **local, individual, and just resilience**
- Integrating climate resilience in **macro-fiscal policy**
- Promoting **nature-based solutions** for adaptation



Faster adaptation



speeding up adaptation across the board, by:

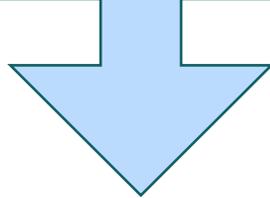
- Accelerating **the rollout** of adaptation solutions
- Reducing **climate-related risk**
- Closing the **climate protection gap**
- Ensuring the **availability** and **sustainability** of **freshwater**



© picture: Peter Löffler



Green Deal Missions:

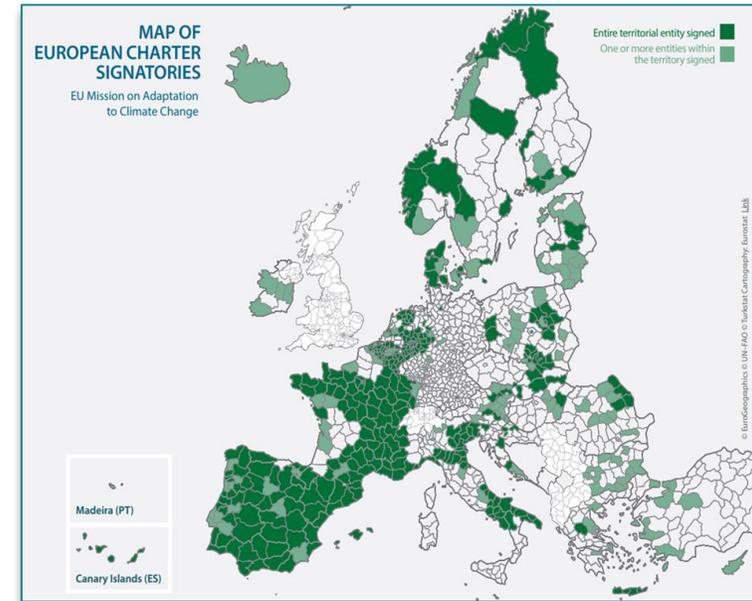


Objective:
 Help at least 150
 European regions and
 communities towards
 climate resilience by 2030



How will the Mission on Adaptation support local and regional authorities?

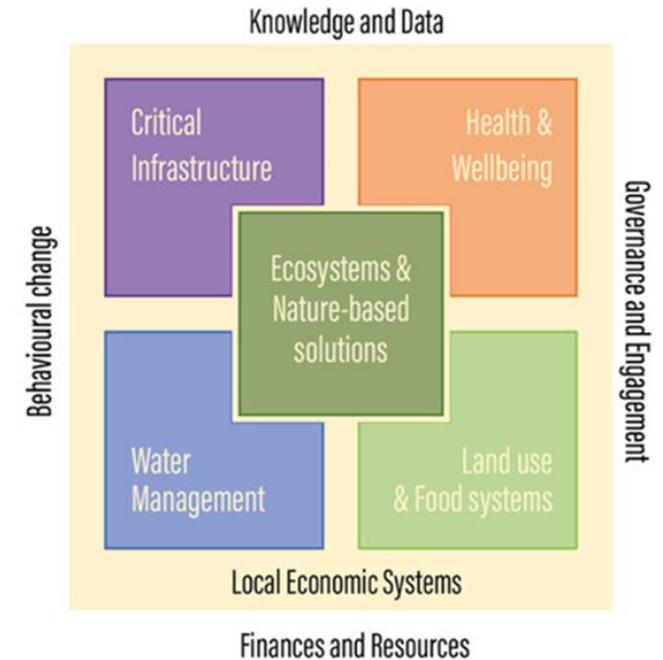
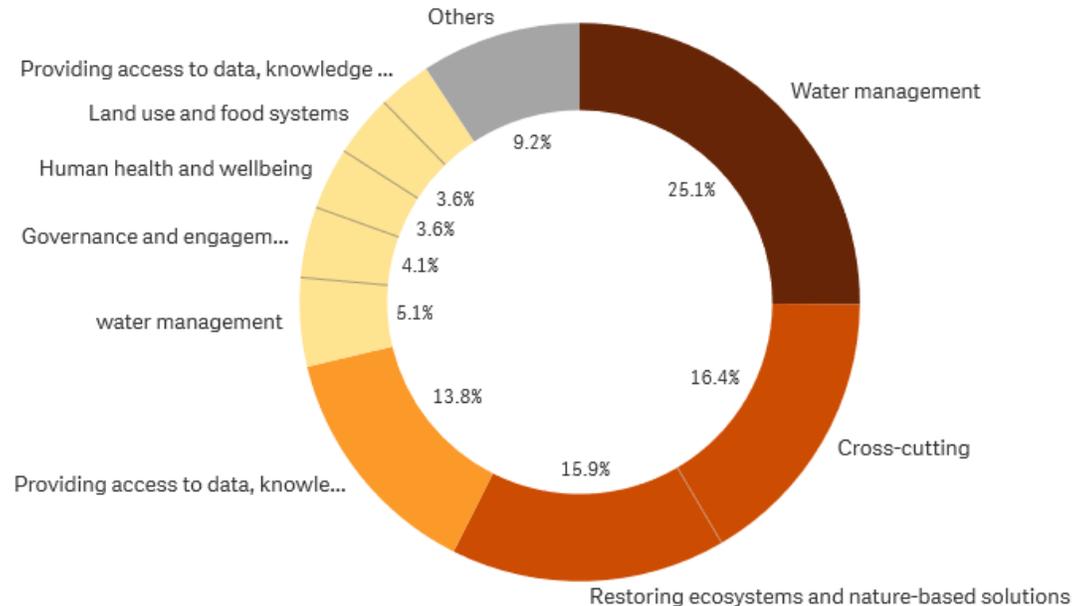
- Community of Practice
 - Regions and local authorities signing a Mission Charter
 - Mission Implementation Platform (MIP4Adapt) (*1 April*)
- Funding through Horizon Europe, and other EU-funding
- Scientific guidance and support by EC Joint Research Centre
- Access to climate adaptation knowledge from Climate-ADAPT





Projects Portfolio:

- 635 projects identified so far as very relevant for the mission
 - From keyword search on metadata/data mining
 - Organised by key innovation areas and enabling factors





Horizon Europe Open Calls: deadline 20 Sept 23

30 million EUR (3 projects – 8-10 million EUR):

Supporting regions and local authorities with testing and demonstrating transformative solutions increasing climate resilience of the agriculture and/or forestry sector

35 million EUR (3 projects – 8-11 million EUR):

Supporting regions and local authorities with testing and demonstrating of solutions to protect critical infrastructure from climate change, mainstreaming nature-based solutions.

18 million EUR (3 projects – 4.5-6 million EUR):

Supporting regions and local authorities with testing and demonstrating of solutions to build resilience towards health risks caused by the effects of climate change.

40 million EUR (4 projects – 10-12 million EUR):

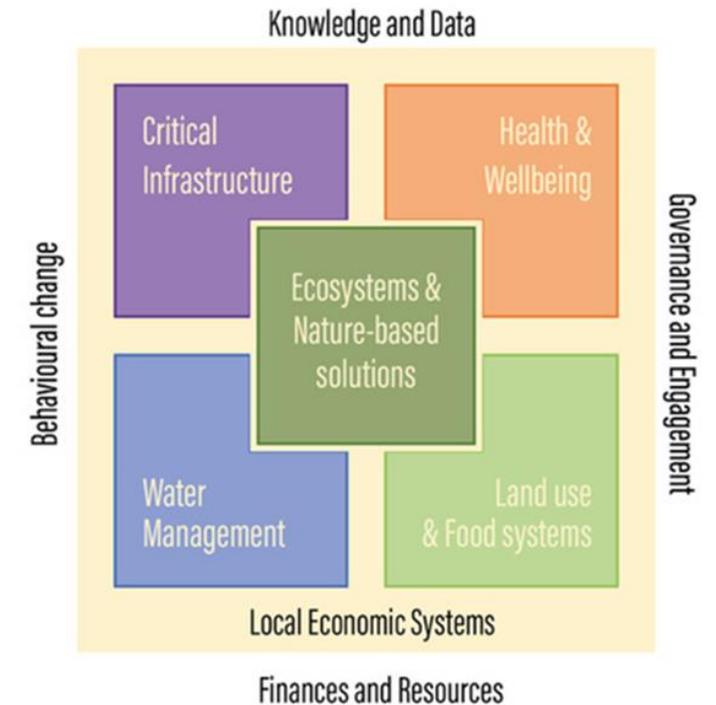
Joint demonstration with the Cities Mission:

Integrated planning for urban greening and re-naturing for urban regeneration, resilience and climate neutrality - **ddl 27 April 23**

15 million EUR (1 projects – 15 million EUR):

Joint demonstration with the Ocean Mission and the Soil Mission:

Demonstrate at regional scale an integrated approach to increasing landscape water retention capacity



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Thank you



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