

# DestinE and Climate Change Adaptation

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1<sup>st</sup> Destination Earth User eXchange / 15 February 2023



# European Environment Agency

- Agency of the European Union
- 32 member + 6 collaborating countries

- EEA **gathers** data and information from across Europe and **translates** them into assessments and knowledge to **inform** policy and decision-making
- Support key EU policies and initiatives



# The role of EEA on Climate change adaptation

- ✓ Provide actionable knowledge on climate change hazards and impacts to policy-makers in Europe
- ✓ Support key EU policies and initiatives
- ✓ Support development and implementation of (sub-)national adaptation strategies

The platform is developed according to users and providers' needs

**User and Policy driven**

**Policy & implementation**

- **New EU Adaptation Strategy**
- **EEA Member countries' needs**
- **Regional, Local, Urban**



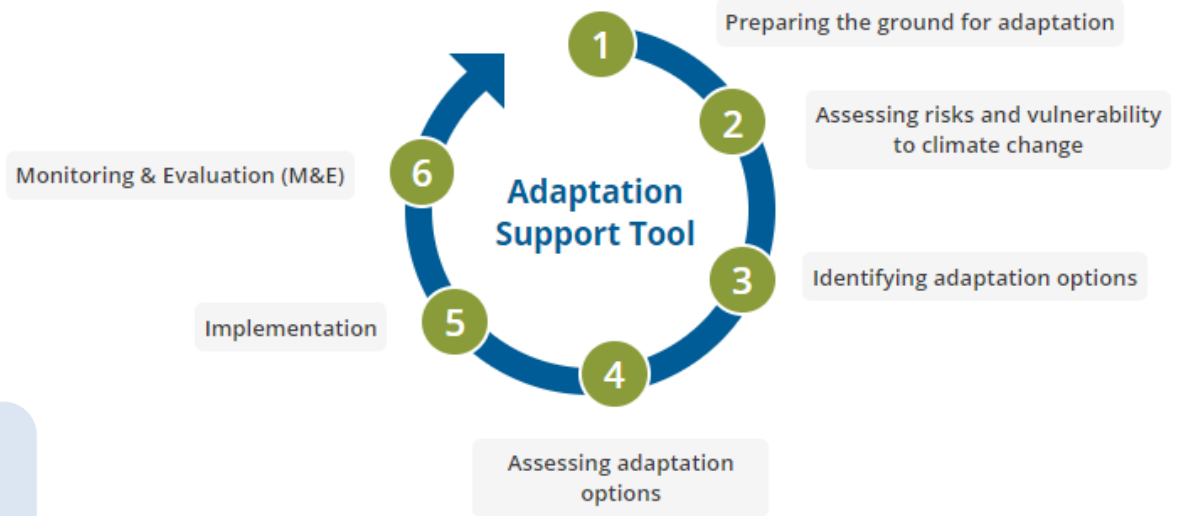
**Policy information**  
Regular reporting under the EU Governance Regulation  
EU Policies

**Copernicus services**  
(e.g., C3S, CLMS, CMEMS)

**Regular update of data, indicators, policy information**

**Evidence base/ Knowledges**  
Cause-Effect-chains  
Adaptation Interventions

**Science & Development**  
EU Digital Agenda, DestinE & Digital Twin, EU Green Deal Agenda  
EU R&I projects



From climate data to actionable knowledge on adaptation

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# Action on adaptation in EU Member States: a mixed picture

- All EU Member States (MSs) have a dedicated adaptation policy in place
- All EU MSs have prepared climate change impact assessments
- Some MSs have started evaluation of the strategies and identifying adaptation measures

EEA member countries	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Austria													*				
Belgium																	
Bulgaria																	
Croatia																	
Cyprus																	
Czechia																	
Denmark																	
Estonia																	
Finland													*				
France																	
Germany												*				*	
Greece																	
Hungary														*			
Ireland													*				
Italy																	
Latvia																	
Lithuania																	*
Luxembourg														*			
Malta																	
Netherlands												*					
Poland																	
Portugal												*					
Romania												*					
Slovakia													*				
Slovenia																	
Spain																*	
Sweden																	
Iceland																	
Liechtenstein																	
Norway																	
Switzerland																	
Turkey																	

Legend:	
	No adaptation policy adopted
	National Adaptation Strategy (NAS) adopted
	National Adaptation Plan (NAP) adopted
	NAS and NAP adopted
*	NAS revision adopted
	Min. 1 Sectoral Adaptation Plan (SAP) adopted and reported (2021)
	Min. 1 Regional Adaptation Plan (RAP) adopted and reported (2021)
	SAP and NAP reported (2021)

<https://climate-adapt.eea.europa.eu/#t-countries>

# Climate-ADAPT as the mission knowledge platform

## Key objectives and tasks for EEA:

- *Developing inputs for regional information on the climate risks*
- *Developing guidelines and tools for developing and implementing adaptation solutions*
- *Monitoring, reporting, and the evaluation activities*
- *Investments into new IT and communication tools for knowledge exchange*

## Climate-ADAPT will host:

**Mission Knowledge Hub:** combining climate information with adaptation actions

## The Mission Implementation Platform

[EU Mission: Adaptation to Climate Change](#)



## Concrete solutions for our greatest challenges

### CHALLENGES

- **Climate change** is an immediate threat to our **health, economy** and **way of life**.
- We are experiencing increased floods, hurricanes, forest fires, heatwaves and droughts.
- In the EU, the impact of climate change already costs at least **€12 billion per year**.

### OPPORTUNITIES

- **Be prepared** for inevitable changes and extreme events;
- **Share experiences** and solutions;
- **Prevent** significant economic losses.

### GOAL

**Support at least 150 European regions and communities to become climate resilient by 2030**

### ACTIONS

- The Horizon Europe programme will provide **€368.3 million** in seed funding during the period 2021-23 to help deliver on the mission;
- Establish a **Mission Implementation Platform** to support and coordinate delivering the mission and assist participating regions;
- The mission will **start working with 60-100 regions** between 2021-23, and continue with another 50-100 regions.

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# Climate Resilient development pathways

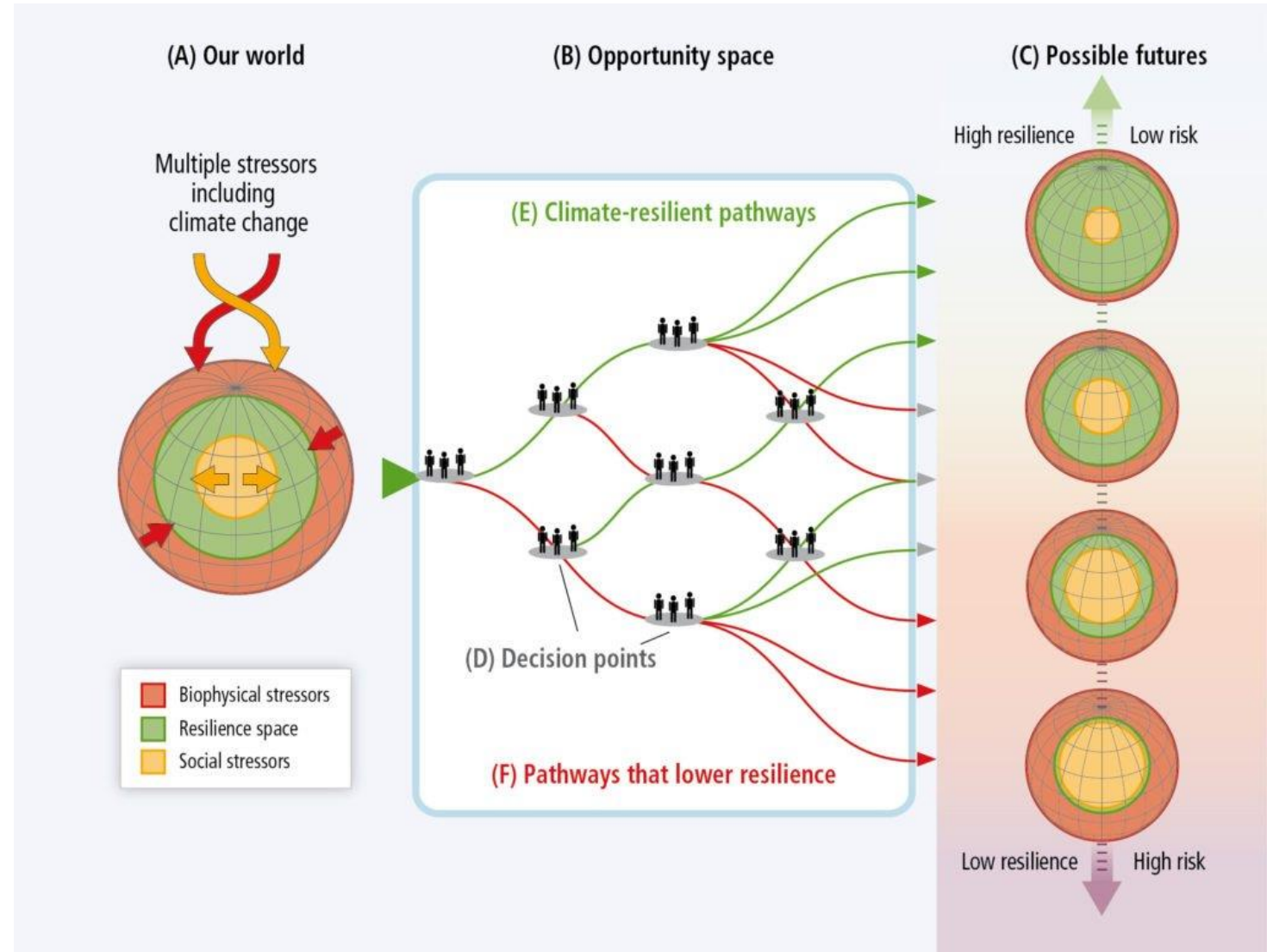
- Trajectories that combine adaptation and mitigation to realize sustainable development & green deal agenda
- Strategies, choices and actions that reduce CC impacts
- Limit tradeoffs and promote synergies

Pathways to consider:

Societal: Human health

Ecosystem: Natural based solutions

Economy: Costs of (in)actions



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IPCC AR5 WGII: Climate-resilient pathways relationship between adaptation, mitigation and sustainable development

# Implementation obstacles

- Regional-local context: understanding which adaptation options are feasible and effective in such scale
- Compounding events and cascading effects, multi-hazards and the different dimensions that the play in Climate Change Adaptation
- Implementation and evaluation of adaptation options are often lacking from adaptation frameworks and need to be highlighted
- Need of digital, decision support tools with costs and effectiveness measures
- Spatial-temporal resolution is not consistent with many of adaptation actions. Regional/local level in need of acute analysis and implementation of adaptation measures. Proper climate information needs to be available to the proper users: availability, reliability and accessibility



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<https://climate-adapt.eea.europa.eu/observatory>

European Climate Data Explorer

<https://climate-adapt.eea.europa.eu/knowledge/european-climate-data-explorer/>

Mission Knowledge Hub: launching later this year

Mission Implementation Platform: launching later this year

**Thank you!**

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