



**12<sup>th</sup> Climate-ADAPT Webinar**  
Online, 01 December 2022, 10:00-11:30 CEST

**Developing multilanguage content and new knowledge hubs  
- Improving the accessibility and uptake of Climate-ADAPT**

**European Environment Agency**  
**Supported by the European Topic Centre on Climate Change Adaptation and  
LULUCF (ETC/CA)**

# Agenda

- 10:00      **Welcome**
- 10:05      **Topic I Developing multilanguage content and new knowledge hubs**
- 10:20      Feedback, questions, answers
- 10:30      **Topic II European Climate and Health Observatory**
- 10:40      Feedback, questions, answers
- 10:45      **Topic III Supporting the Mission on adaptation to climate change**
- 10:55      Feedback, questions, answers
- 11:00      **Topic IV Further advancing Climate-ADAPT case studies**
- 11:15      Feedback, questions, answers
- 11:25      **Topic V Assisting the uptake of knowledge**
- 11:30      **End of the Meeting**

# Welcome

**Peter Löffler,**  
European Commission  
DG CLIMA



## Vision & Objectives

- Vision: by 2050 the EU will be a climate-resilient society, fully adapted to the unavoidable impacts of climate change
- Objectives:
  - **Smarter adaptation** – improving knowledge and managing uncertainty
  - **More systemic adaptation** – support policy development at all levels and sectors
  - **Faster adaptation** – speeding up adaptation across the board
  - **Stepping up international action** for climate resilience



© picture: Peter Löffler



# Climate-ADAPT our joint tool – being users and providers

**Blaž Kurnik**

Head of group Climate change impacts and adaptation

EEA

EEA/Eionet strategy 2021-2030

## Working in two directions

Promoting the platform to engage users and knowledge providers across the EU to share their knowledge

The screenshot shows the Climate-ADAPT website interface. At the top, there is a navigation menu with categories: ABOUT, EU POLICY, COUNTRIES, TRANSNATIONAL REGIONS, CITIES, KNOWLEDGE, and NETWORKS. Below the menu is a featured article titled "Adaptation challenges and opportunities for the European energy system" with a "READ MORE" link. A central navigation bar includes icons for "Getting Started", "Search the Database", "EU Sector Policies", "Country Profiles", "Case Studies", and "Adaptation Support Tool". Below this is a section titled "Are you new to Climate-ADAPT?" with three video thumbnails for local, national/regional, and transnational adaptation strategies. At the bottom, there are sections for "Share your information", "Covenant of Mayors Initiative on Climate Change Adaptation", "News Events", and "Newsletter RSS feed".

The screenshot shows the cover of a report titled "National monitoring, reporting and evaluation of climate change adaptation in Europe". The cover features a landscape image of a river and a sunset. The EEA logo is visible in the bottom right corner.

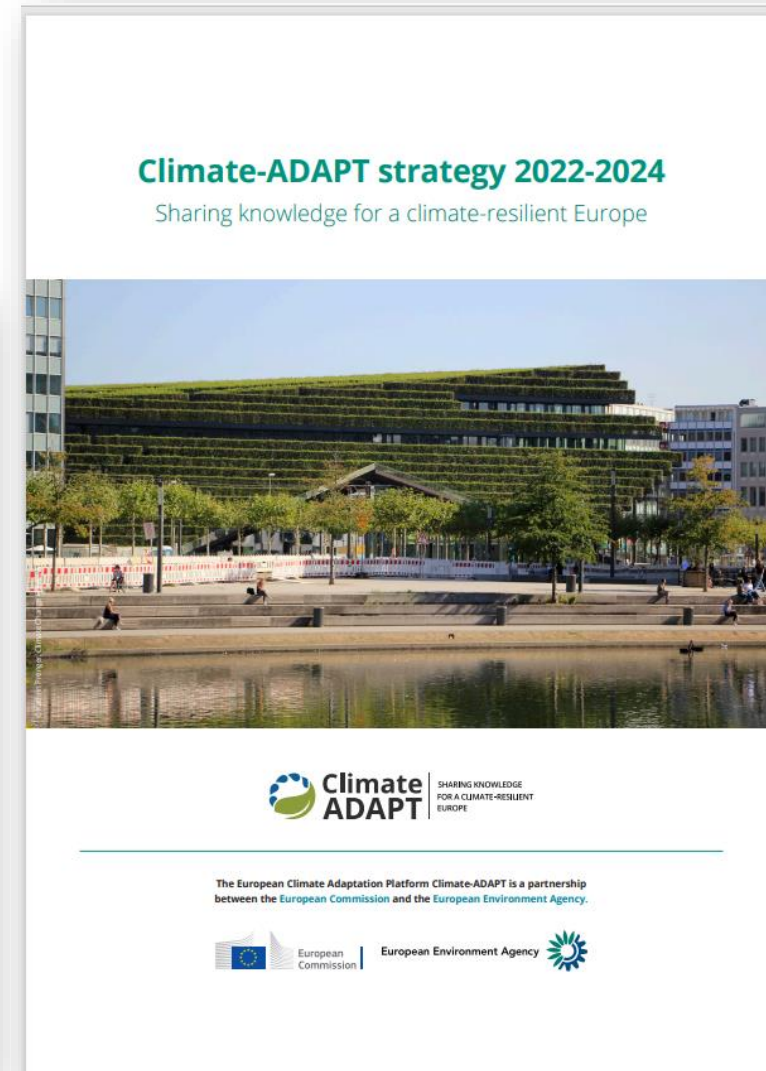
From EEA/ETC assessments, providing synthesis information, case studies, tools and more database articles

# Implementing the 2022-2024 Climate-ADAPT Strategy

Overall, on track

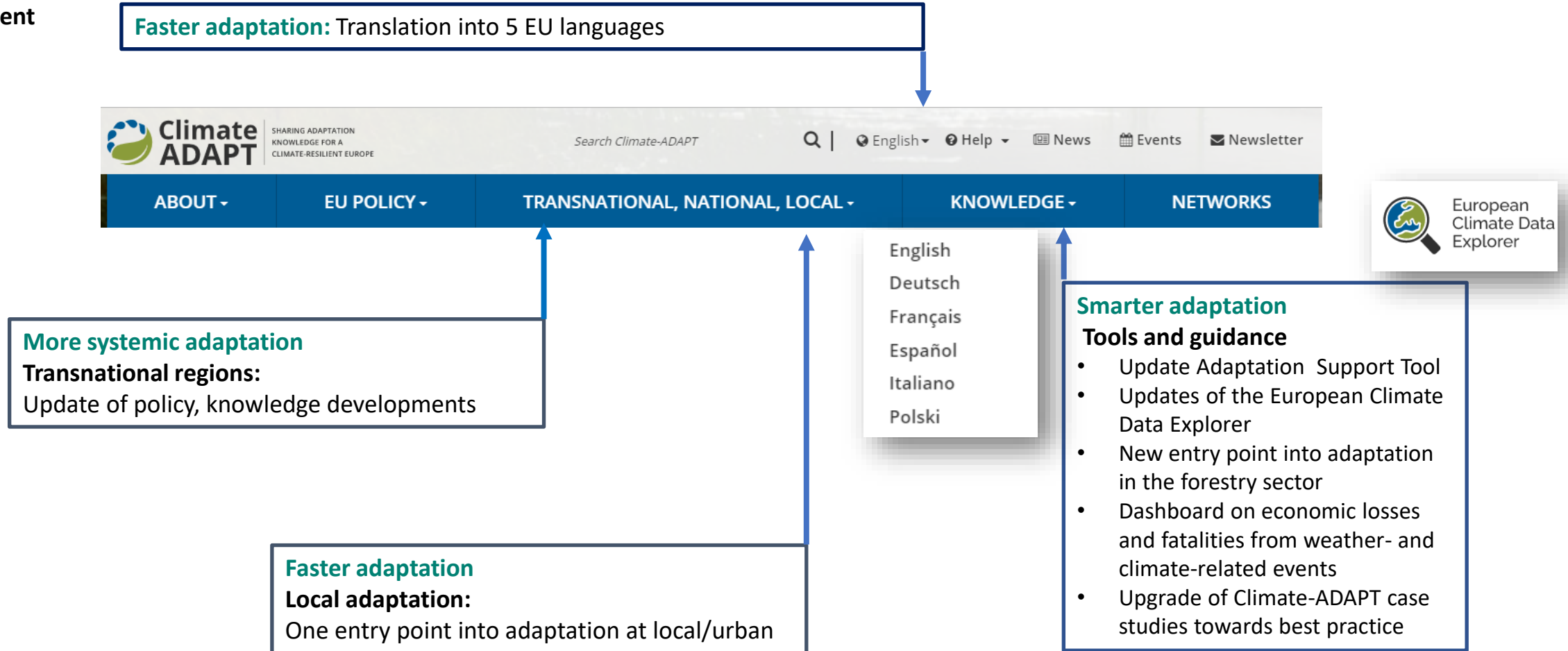
**Table 1** Milestones and priority actions of the 2022-2024 Climate-ADAPT strategy

Year	Priority objectives	Milestone	Priority action
2022	Empowering people for action at multiple levels	Providing Climate-ADAPT in the EU national languages	Implementing the EU eTranslation tool on Climate-ADAPT
2023	Promoting solutions for action Driving regional and community resilience	Supporting participants in the EU mission on adaptation to climate change with new knowledge and subnational-level solutions	Making the EU 'mission knowledge hub' operational
2024	Providing trusted data and information Promoting solutions for action Empowering people for action at multiple levels Supporting international adaptation action and exchanges	Providing substantial support for implementing adaptation measures in EEA member countries through coherent and mutually supportive knowledge provided on adaptation platforms on Climate-ADAPT and at national levels	Fully implementing links to transnational, national and subnational adaptation platforms, as well as connecting and developing interoperability with relevant resources on climate impacts at the EU level
	All objectives	Assessing Climate-ADAPT's achievements until 2024 and identifying lessons learned	Undertaking an in-depth evaluation of Climate-ADAPT



# Topic I Developing multilanguage content and new knowledge hubs

## 2022 Content development Overview



# 5 new multilanguage sections

## Objective:

Supporting faster adaptation via removing the language barrier for using Climate-ADAPT in national languages

## Solution:

- Providing pre-processed content, using EU ETranslation service
- Language quality: automatic translation of content, quality-assessed translation of the menus
- Stepwise implementation, starting with 5 languages, covering a large share of EU population (DE, FR, IT, PL, ES)
- Stepwise extension to all official EU languages

## Please note:

- English version remains the legally binding version of Climate-ADAPT
- Country profiles not translated due to authoritative national adaptation reporting

The screenshot displays the Climate-ADAPT website interface. At the top, the logo 'Climate ADAPT' is accompanied by the tagline 'SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE'. A search bar and navigation links for 'Polski', 'Pomoc', 'Wiadomości', 'Wydarzenia', and 'Biuletyn' are visible. A blue navigation bar contains five main menu items: 'O NAS', 'UNIJNE POLITYKI', 'PONADNARODOWY, NARODOWY, LOKALNY', 'WIEDZA', and 'SIECI'. The main content area features a large image of a modern building with a curved facade. A prominent white box contains the headline 'Wyniki badań niezbędnych do wsparcia procesu decyzyjnego w krytycznej dekadzie' and a summary of research findings. Below this, a row of five small thumbnail cards offers links to 'Informacje na temat Climate-ADAPT', 'webinarium internetowe', 'Najnowsze Wiadomości i wydarzenia', 'Najnowsze Studium przypadku', and 'Najnowsza publikacja lub raport'. A secondary navigation bar includes icons and labels for 'Nowość', 'Wyszukaj w bazie danych', 'Sektorowe polityki UE', 'Profile krajów', 'Studia przypadków', and 'Narzędzie wspierające adaptację'. The bottom section highlights two key services: 'European Climate Data Explorer' and 'European Climate and Health Observatory', each with a brief description and a blue button for further action.



# Providing Climate-ADPT in national languages (E-translation)

## Some limitations:

- Some delay between the publication of new features and their multilanguage versions
- Multilanguage search filters, search results of database/resource catalogue still shown in English
- Navigation back and forth within a language section not always smooth
- Bugs still occurring... feel free to report them to [climate.adapt@eea.europa.eu](mailto:climate.adapt@eea.europa.eu)

Wyniki (0 wyszukiwane hasła, które mają być użyte) należy podawać tylko w języku angielskim

Wyszukaj termin

Results 1 - 10 of 44

Sposób wyświetlania Wyświetl według: najnowszy Pobierz CSV

### Adapting agriculture to wetter and drier climates: the Tullstorp stream Project (Sweden)

Case studies

The poor ecological state of the Tullstorp stream (southern Sweden) and the recently experienced adverse weather events, with extremely wet and dry periods and related impacts for the agriculture sector, led the Economic Association of landowners of the Tullstorp river basin to take action. A first restoration project started in 2009 with the main goal to improve the ecological status of the stream, solve flooding problems and facilitate the overall management of the water resource. Nature-based solutions as re-meandering, creating flood storage areas, creating, and restoring buffer strips and wetlands were carried out and proved their efficacy for the reduction...

### The integrated system of Nature-based Solutions to mitigate floods and drought risks in the Serchio River Basin (Italy)

Case studies

Massaciuccoli Lake (7 km2 wide and about 2 m deep) is a coastal lake surrounded by marshy areas that are part of the Serchio river basin. Large part of the basin has been drained for agricultural purposes since 1930 by means of a complex network of artificial ditches and pumping stations forcing water from the drained areas into the lake. As final water receptor, the Massaciuccoli Lake has become a sensitive and vulnerable area, especially to nutrients, such as nitrates and phosphates coming from large-scale and intensive agricultural use, and exposed to silting phenomena. Considering the ecological value of that wetland (Site of Community Importance - SCI, Spe...

### Building fire resilience using recycled water in Riba-Roja de Túria, Spain

Case studies

Riba-Roja de Túria is a municipality located in the National Park of Túria in Valencia (Spain) which represents one of the last remaining forestry lungs in its metropolitan area. The Túria Park also represents a clear example of the scarce and valuable Mediterranean riparian forests associated with the River Túria. It is rich in terms of biodiversity with the presence of Aleppo pines and Mediterranean scrubs, as well as in terms of traditions, agricultural landscape and local culture heritage related to ancient Valencian agriculture. Its classification as a Natural Park has ensured the conservation of all these values within a highly populated and industrialised...

### Preventing lionfish invasion in Cyprus through early response and targeted removal

Case studies

Lionfish (*Pterois miles*), a generalist and voracious mesopredator native of the Indian Ocean, is rapidly spreading in the Mediterranean Sea, demonstrating the fastest invasion ever recorded in the region. Seawater warming, as effect of global climate change, is projected to offer increasingly favourable habitat for lionfish diffusion that could threaten almost the entire Mediterranean Sea by the end of this century. Lionfish invasion heavily affects the marine ecosystem and biodiversity, causing the decline of local species and biodiversity. It can also reduce commercial fish species, with potential disruption of fisheries, while their venomous features can pos...

### Green spaces and corridors in urban areas

Adaptation options

Recent studies have highlighted the importance of boosting green urban areas and connecting fragments of green space with ecological corridors to improve biodiversity and animal species dispersal within the urban landscape. If adequately designed, green corridors can improve urban ventilation, allowing for cooler air from outside to penetrate into the more densely built areas, and reducing thus the urban heat island effect. Urban green areas can also have positive effects for human health and climate change adaptation. The capacity of vegetation to retain water is an important flood prevention feature that can reduce peak discharges. Green spaces in cities can...

### Afforestation and reforestation as adaptation opportunity

Adaptation options

Climate change and forest ecosystems are closely connected, with climate mainly affecting the rate, frequency, intensity and timing of air temperature, solar radiation and rainfall. Climate change impacts can be both positive and negative on forest structure, growth patterns, composition, productivity and functioning, depending on the location and type of forest. For example, positive effects are expected, in Europe, on wood production and wood supply, especially at high latitude, due to enhanced CO2 concentration in the atmosphere and more rainfall. However, climate change could represent a threat for forest ecosystems and require, especially in Mediterranean...

#### Rodzaj elementu

Liczba Value	Selekuj
1 Filmy	○
15 Narzędzia	○
14 Opcje adaptacji	⊗
29 Organizacje	○
54 Portale informacyjne	○
91 Projekty badawcze i wiedzy	○
22 Przewodnictwo	○
146 Publikacje i raporty	○
30 Studium przypadku	⊗
11 Wskaźniki	○

#### Sektory adaptacyjne

Liczba Value	Selekuj
68 Miejski	○
7 Niespecyficzne	○
41 Obszary przybrzeżne	○
83 Ograniczenie ryzyka katastrof	○
69 Podejścia oparte na Cosystemu (GI)	○
34 Rolnictwo	○
44 Różnorodność biologiczna	○
18 Transport	○
81 Zarządzanie wodą	○
31 Zdrowie	○

Wpływ na klimat >

Regiony transnarodowe >

Elementy adaptacyjne >

Program finansowania >

Przedmiot od stron trzecich >

Disaster Risk Redu



# Knowledge: Adaptation Support Tool (AST) light update, available soon

**Climate ADAPT** SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE

Search Climate-ADAPT | English | Help | News | Events | Newsletter

ABOUT - EU POLICY - TRANSNATIONAL, NATIONAL, LOCAL - **KNOWLEDGE -** NETWORKS

Home » Knowledge » Tools » Adaptation Support Tool

## The Adaptation Support Tool – Getting started

by tibi — last modified Sep 30, 2022 04:30 PM — [History](#)

The aim of the Adaptation Support Tool (AST) is to assist policy makers and coordinators on the national level in developing, implementing, monitoring and evaluating climate change adaptation strategies and plans. The AST was developed as a practical guidance tool for national level actors for all steps needed to develop, implement, monitor and evaluate a national adaptation strategy. It also supports sub-national actors and trans-national actors to prepare for, develop, implement and monitor and evaluate adaptation strategies. It refers to relevant resources and dedicated tools in climate change adaptation (CCA).

In 2013 the European Commission issued the [EU guidelines on developing adaptation strategies](#) as a component of the [EU strategy on adaptation to climate change](#) with the aim to support EU Member States (MS) in the process of developing, implementing and reviewing their adaptation strategies. They provide a common understanding of key features relevant to adaptation policy processes, building on the experience available in the EU. The steps and recommendations of the Adaptation Support Tool are aligned with the contents of these guidelines and further

[READ MORE](#)

### The Adaptation Support Tool - Getting started

- » Climate Impacts in Europe
- » Adaptation to climate change
- » Principles and success factors
- » Using the Adaptation Support Tool

#### 1. Preparing the ground for adaptation

#### 2. Assessing climate change risks and vulnerabilities

#### 3. Identifying adaptation options

#### 4. Assessing adaptation options

#### 5. Implementing Adaptation

#### 6. Monitoring and Evaluating Adaptation

#### Q Climate-ADAPT database items

- » Guidelines on developing adaptation strategies
- » Methods and Tools for Adaptation to Climate Change - A Handbook for Provinces, Regions and Cities
- » Climate change adaptation of major infrastructure projects

#### Additional resources

[Overview of EEA member countries with national adaptation strategies and adaptation plans](#)

Supporting the adaptation policy cycle with guidance based on

## New knowledge

- IPCC AR6
- Adaptation modelling
- Cross-cutting approaches: Nature-based solutions, Just resilience

## New policy framework

- European Climate Law

## Future developments:

- Developing a Regional adaptation Support Tool (RAST) under the Mission on adaptation
- Aligning the AST and Urban AST with this new tool

# Knowledge: European Climate Data Explorer

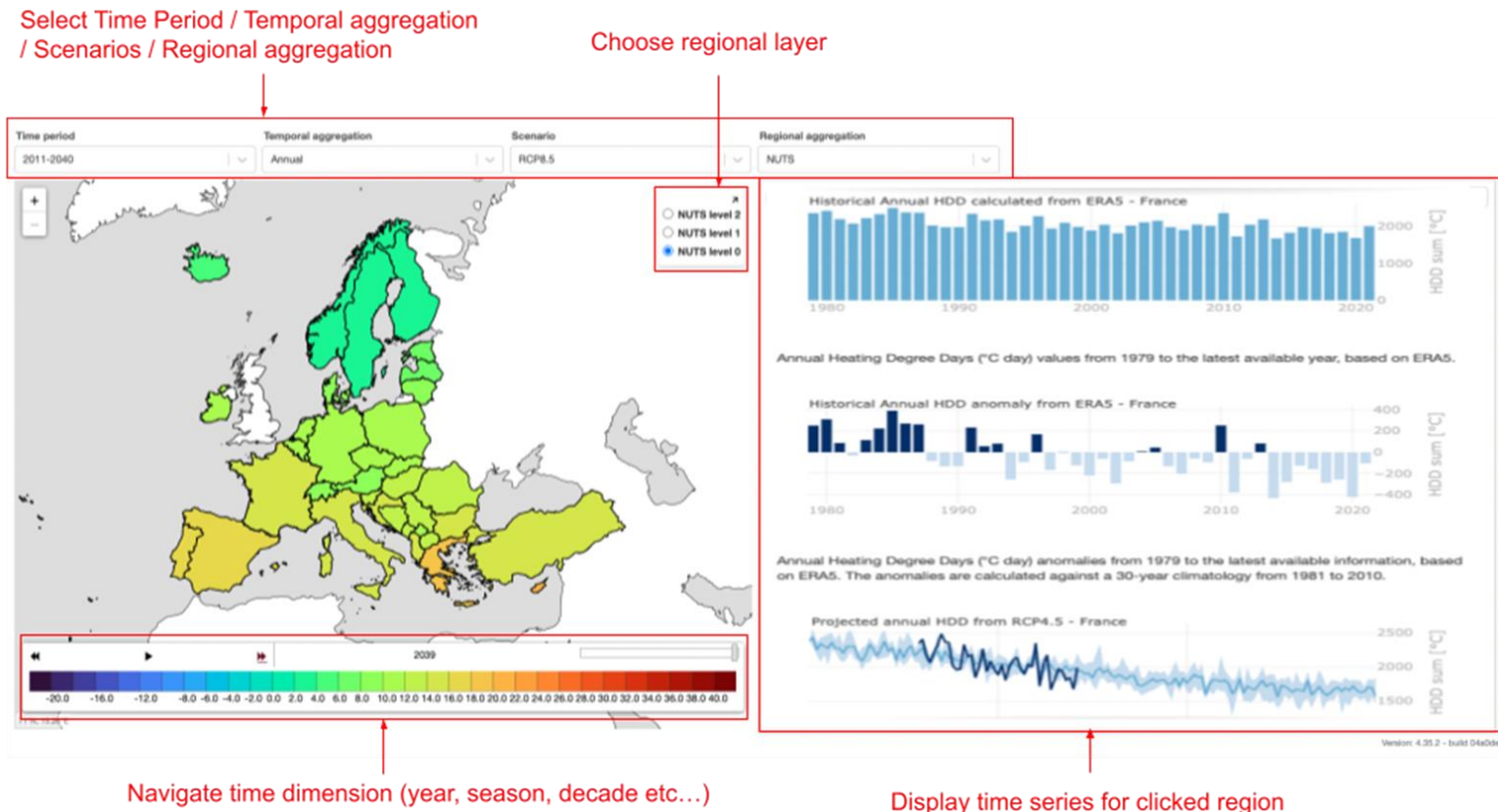
**Collaboration** between Copernicus Climate Change Service (C3S) & EEA. Interactive access to many (quality assured) climate information

## New release late December 2022

- Performance improvements and bug fixes
- Water related indicators
- Harmonisation of data sources and methodologies
- Past/present: ERA5 reanalysis data
- New visualisation, help , FAQ section
- ~9 months releases

## Future developments

- ECDE will contribute to the Mission on Adaptation and further developments will be targeted to related needs



# New knowledge hub: Entry page on local adaptation

The screenshot shows the Climate-ADAPT website interface. At the top left is the logo for Climate ADAPT with the tagline 'SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE'. To the right is a search bar and navigation links for English, Help, News, Events, and Newsletter. A dark blue navigation bar contains the following menu items: ABOUT, EU POLICY, TRANSNATIONAL, NATIONAL, LOCAL (highlighted with a red box), KNOWLEDGE, and NETWORKS. Below the navigation bar is a large banner image of a city skyline with a text overlay: 'Learn more about how cities can adapt to climate change to become future-proof, climate-resilient cities'. Underneath the banner is a row of six icons with corresponding labels: a wrench for 'Data and Tools', a lightbulb for 'Case studies and Adaptation Options', a brain for 'Resource Catalogue', a clipboard for 'Policy Overview', a banknote for 'Funding and Financing', and a presentation board for 'City Initiatives'. The bottom section features three featured tools: 1. 'Urban Adaptation Support Tool' with a description: 'The Urban Adaptation Support Tool assists cities, towns and local authorities in developing, implementing and monitoring climate change adaptation plans.' and a 'Go to the Urban Adaptation Support Tool' button. 2. 'Urban Adaptation Map Viewer' with a description: 'The Urban Adaptation Map Viewer provides an overview of the current and future climate hazards, the vulnerability of the cities to these hazards and their adaptive capacity.' and a 'Go to the Urban Adaptation Map Viewer' button. 3. 'European Climate Data Explorer' with a description: 'The European Climate Data Explorer provides interactive access to many climate indices from the Copernicus Climate Change Service in support of climate change adaptation.' and a 'Go to the European Climate Data Explorer' button.

**\*Single entry point to all knowledge relevant to local municipalities**

- Case studies, Adaptation Options, pre-sorted to urban content
- Resource Catalogue highlighting most relevant publications
- Policy and funding overviews
- Links to relevant city networks and projects

→ *Any feedback much appreciated!*

# Knowledge hub: Entry page on adaptation in the forestry sector

**Climate ADAPT** SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE

Search *Climate-ADAPT* | English | Help | News | Events | Newsletter

ABOUT - EU POLICY - TRANSNATIONAL, NATIONAL, LOCAL - **KNOWLEDGE -** NETWORKS

Learn more about how forests can adapt to climate change to stay healthy, diverse, resilient and productive

Tools and data | Adaptation Options and Case Studies | Resource catalogue | Policy overview | Funding and Financing

**European Climate Data Explorer**  
The European Climate Data Explorer provides interactive access to many climate indices like fire weather indices in support of climate change adaptation in forests.

**Forestry Information System for Europe**  
FISE web portal will help us to improve the health and resilience of our forests, which play a vital role in protecting our biodiversity and in mitigating climate change.

**European Drought Observatory**  
The European Drought Observatory (EDO) contains drought-relevant information. These give an overview of the situation in the EU about imminent droughts.

**The European Forest Fire Information System**  
The European Forest Fire Information System (EFFIS) supports the protection of forests against fires and provides the EU with harmonized information on forest fires

Single entry point to all knowledge relevant to adaptation in the forestry sector (key vulnerable sector)

- Case studies, Adaptation Options, pre-sorted to forestry content
- Resource Catalogue highlighting most relevant publications

## Future developments:

- Extending links to FISE
- Advancing adaptation options adaptation in forestry
- Adding case studies on good practices for forest planning, management and recovery including multiple co-benefits, based on EU funded projects, from European institutions and the EEA Member countries (Eionet)

# New policy and knowledge developments for adaptation in transnational regions

## Transnational regions

The Interreg VI B defines [14 transnational co-operation programmes for 2021-2027](#) on large scale territories in Europe and beyond. In addition, specific EU agreed strategies exist for four macro-national regions: [Baltic Sea](#), [Danube](#), [Alpine](#), and [Adriatic and Ionian](#) regions.

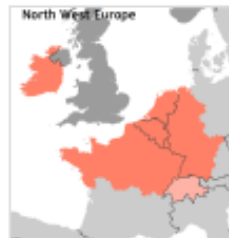
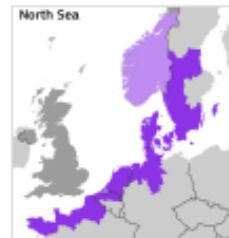
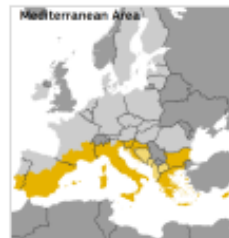
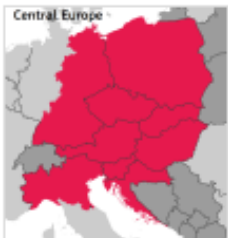
The previous Interreg V B 2014-2020 covered 12 cooperation programmes in Europe and 3 EU outermost regions and overseas countries and territories.

This section provides information on strategies and actions that have been developed for transnational regions.

An update of this section, to include information about the new programming period (2021-2027) is ongoing.

To go to one of the region's pages, choose a region from the drop-down list or click on its map. To see [Other regions click here](#).

Choose a region 



map source: [Interreg B - Transnational cooperation](#)

## New regions defined according to the 2021-2027 Transnational Cooperation programmes:

- 11 new regions online, including all related knowledge
- 3 new next programme regions to be added once approved (EU cooperation with neighboring regions)

# New policy and knowledge developments for adaptation in transnational regions

## Baltic Sea

by tibi — last modified Nov 15, 2022 03:41 PM — [History](#)

### Region's countries

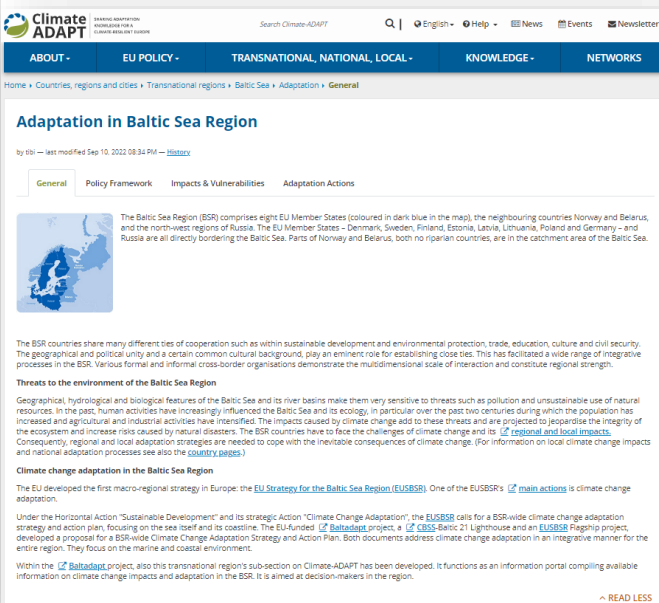
The Baltic Sea cooperation area stretches from central parts of Europe up to its northernmost periphery. The 2021-2027 cooperation area includes almost the whole territory of the previous Interreg Programme (Denmark, Estonia, Finland, northern Germany, Latvia, Lithuania, Poland, Sweden, Norway), except for previously included areas of Russia\*, Belarus\* and the northern territories of Norway.

\*As of 8 March 2022 the Transnational cooperation with Russia and Belarus is suspended.

### Policy framework

#### 1. Transnational cooperation programme

The Interreg [Baltic Sea Region \(BSR\) Programme \(2021-2027\)](#), approved on 2 June 2022 by the EU Commission, aims to put innovative, water-smart and climate-neutral solutions through transnational cooperation into practice. The BSR Programme focussed on four priorities:



The screenshot shows the 'Climate ADAPT' website interface. The main content area is titled 'Adaptation in Baltic Sea Region' and includes a map of the Baltic Sea region. The text describes the region's cooperation framework and priorities, mentioning the 'Baltic Sea Region (BSR) Programme (2021-2027)' and its focus on innovative, water-smart, and climate-neutral solutions. The page also includes a navigation menu and a search bar.



Choose a region

#### Region's countries:

[Denmark](#), [Estonia](#), [Finland](#), [Germany](#), [Latvia](#), [Lithuania](#), [Poland](#), [Sweden](#), [Norway](#), Russia, Belarus

#### Q Content in Climate-ADAPT database

- » Publications and reports (33)
- » Information portals (3)
- » Indicators (16)
- » Guidance (1)
- » Tools (4)
- » Research and knowledge projects (8)
- » Case studies (18)
- » Organisations (13)

[Share your information](#)

Detailed information including links to the most relevant documents on adaptation in the Baltic Sea Region is provided by the Baltic Sea Region (BSR) Climate Dialogue Platform.

[See Baltic Sea Region](#)

For each region, structured information on

Adaptation policy framework

- transnational cooperation programme, macro-region strategies,
- international conventions
- other cooperation initiatives,
- adaptation strategies and plans)

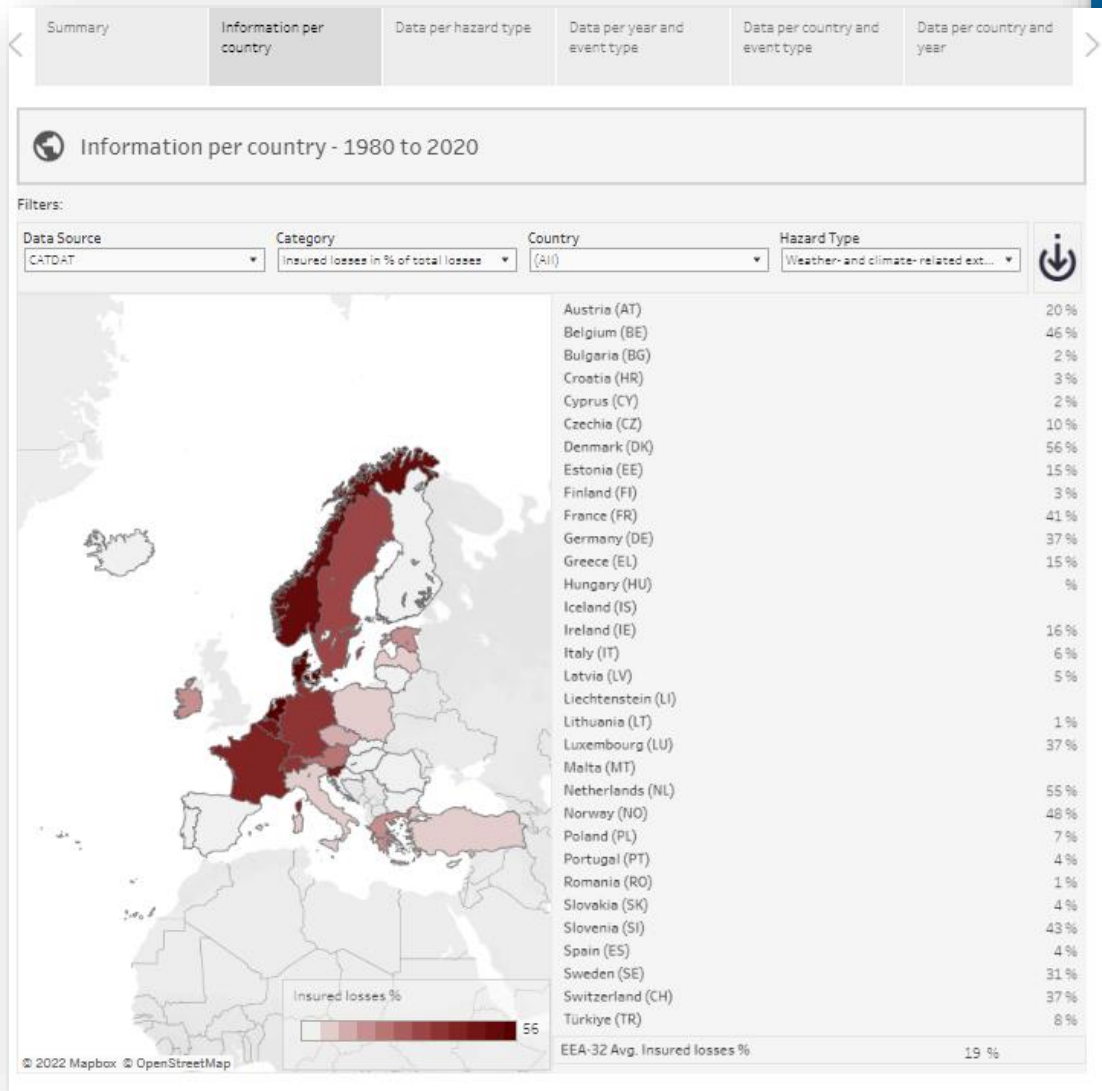
Examples of projects, funded under the transnational cooperation programme 2014-2020

Outlook:

- Sections with more specific knowledge (Baltic Sea region, Carpathian mountains) - update to be discussed with knowledge providers



# Knowledge - New dashboard on Economic losses from weather and climate related events in Europe



**Climate ADAPT** SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE

Search Climate-ADAPT | English | Help | News | Events | Newsletter

**KNOWLEDGE**

Knowledge > Economic losses > Economic losses on weather

## Economic losses and fatalities from weather- and climate-related events in Europe

[About the dashboard](#) [Data](#)

This dashboard considers the total and insured economic losses and the number of fatalities from weather- and climate-related events in EU Member States and EEA member countries since 1980. Weather- and climate-related hazards considered are those types classified as meteorological hazards (e.g. storms), hydrological hazards (e.g. floods) and climatological hazards (e.g. heatwaves) based on the classification by the International Council for Science (ICSU). The geophysical hazards (e.g. earthquakes and volcanoes) are included for comparison purposes. An event can occur in several countries, but the information is split per country.

The data is based on the RiskLayer CATDAT and the MunichRe NatCatSERVICE datasets (both received under institutional agreement), and on the Eurostat collection of economic indicators, whereas data from earlier years not covered by Eurostat have been completed using data from the Annual Macro-Economic Database of the European Commission (AMECO), the International Monetary Fund's (IMF) World Economic Outlook (WEO), the Total Economy Database (TED) and the World Bank database. The average population of a country over the period of the time series is used.

**risklayer** analysing and managing catastrophe risk **Munich RE**

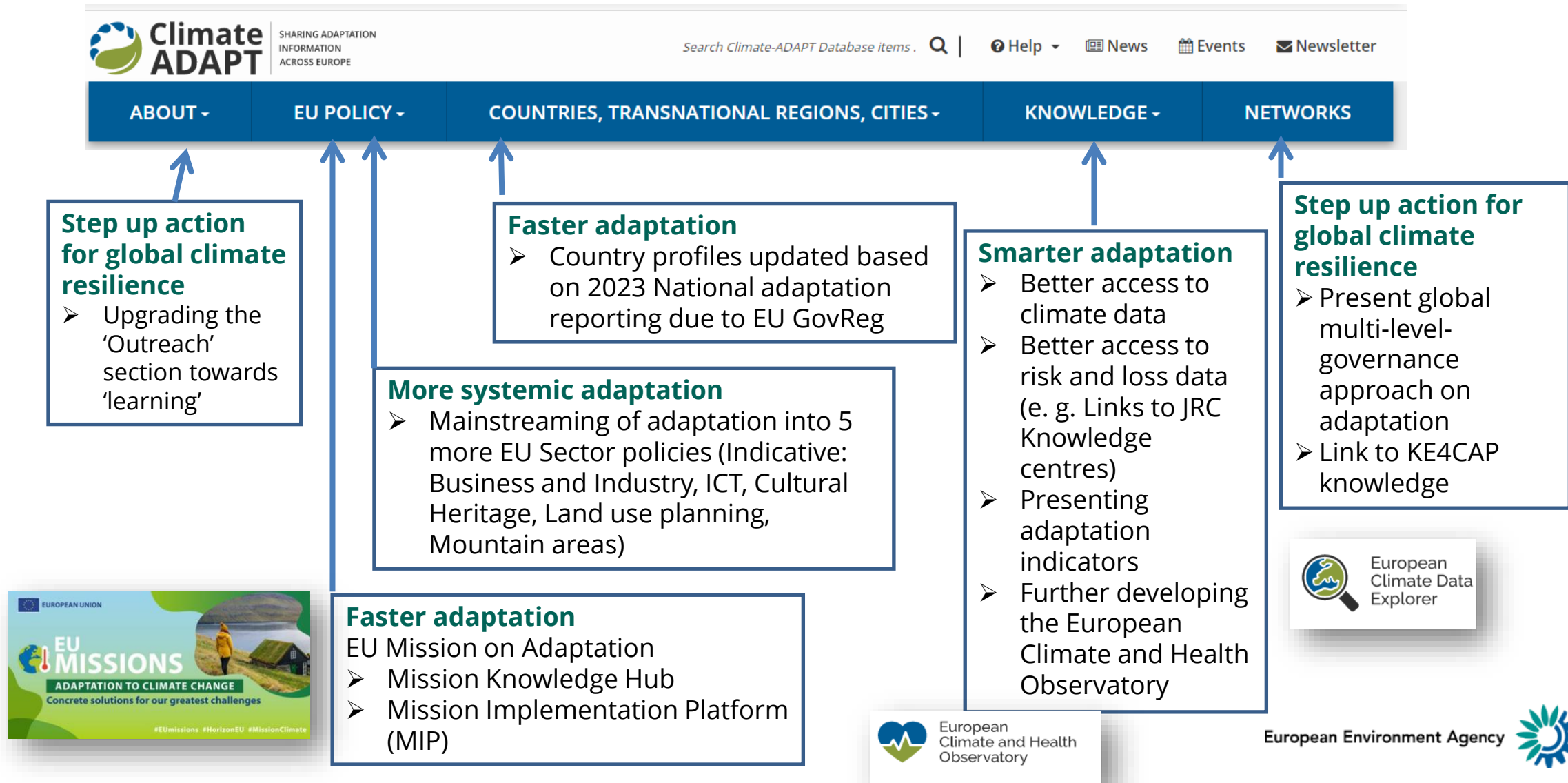
The data in this dashboard are based on the individual event records received from the data providers. However, EEA not being the owner of the data, no other detail than the data presented in this dashboard can be disclosed by EEA.

The information from CATDATA and NatCatSERVICE with data per event is presented:

- by country (as in the latest year of the times series, e.g. events that happened in Czechoslovakia are assigned to Czechia and/or Slovakia based on the location)

# 2023 Climate-ADAPT priorities

Overall: Improving the performance by preparing the migration to a new Content Management System





# Topic I Developing multilanguage content and new knowledge hubs

## Feedback, questions, answers

The screenshot shows the homepage of the Climate ADAPT website. At the top, there is a navigation bar with the logo 'Climate ADAPT' and the tagline 'SHARING ADAPTATION INFORMATION ACROSS EUROPE'. To the right of the logo is a search bar and links for 'Help', 'News', 'Events', and 'Newsletter'. Below the navigation bar is a main menu with five categories: 'ABOUT', 'EU POLICY', 'COUNTRIES, TRANSNATIONAL REGIONS, CITIES', 'KNOWLEDGE', and 'NETWORKS'. The main content area features a large image of two people jogging on a path. Below the image is a news article titled 'Keeping healthy in a changing climate - Launch of the European Climate and Health Observatory'. The article text states: 'The European Commission and the European Environment Agency, in cooperation with the European Policy Centre, invite you to look at the recording of the official launch of the new European Climate and Health Observatory. ...'. There is a 'READ MORE' link. Below the article are five small thumbnail images with titles: 'About Climate-ADAPT', 'Health Observatory launch recording', 'New EU Strategy on Adaptation', 'Case Study', and 'Most recent Publication or Report'. Below the main content area is a row of six icons with labels: 'New feature', 'Search the Database', 'EU Sector Policies', 'Country Profiles', 'Case Studies', and 'Adaptation Support Tool'. Below this row are two featured sections. The first section is for the 'European Climate Data Explorer', with a magnifying glass icon and the text: 'The European Climate Data Explorer provides interactive access to many climate indices from the Copernicus Climate Change Service in support of climate change adaptation.' Below this text is a blue button that says 'Go to the European Climate Data Explorer'. The second section is for the 'European Climate and Health Observatory', with a heart and pulse icon and the text: 'The European Climate and Health Observatory provides access to a wide range of relevant publications, tools, websites and other resources related to climate change and health.' Below this text is a blue button that says 'Go to the European Climate and Health Observatory'. At the bottom right of the page is the 'European Environment Agency' logo.

# Knowledge: European Climate and Health Observatory

The screenshot shows the Climate-ADAPT website interface. At the top left is the Climate ADAPT logo with the tagline 'SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE'. To the right is a search bar labeled 'Search Climate-ADAPT' and navigation links for 'English', 'Help', 'News', 'Events', and 'Newsletter'. Below this is a blue navigation bar with tabs for 'ABOUT', 'EU POLICY', 'TRANSNATIONAL, NATIONAL, LOCAL', 'KNOWLEDGE', and 'NETWORKS'. The 'KNOWLEDGE' tab is highlighted with a red arrow. A central white box contains the text 'Improving the accessibility and uptake of Climate-ADAPT' and 'Developing multilanguage content and new knowledge hubs ...' with a 'READ MORE' link. Below this are five small thumbnail images: 'About Climate-ADAPT', 'webinar', 'Latest News & Events', 'Most recent Case Study', and 'Most recent Publication or Report'. At the bottom of the screenshot, there are two main content blocks. The left block is titled 'New feature' and 'European Climate Data Explorer', with a description: 'The European Climate Data Explorer provides interactive access to many climate indices from the Copernicus Climate Change Service in support of climate change adaptation.' and a button 'Go to the European Climate Data Explorer'. The right block is titled 'European Climate and Health Observatory' and has a description: 'The European Climate and Health Observatory provides access to a wide range of relevant publications, tools, websites and other resources related to climate change and health.' and a button 'Go to the European Climate and Health Observatory'. A red arrow points from the 'KNOWLEDGE' tab to the 'European Climate and Health Observatory' button.



- More systemic adaptation:**
- Improvements in all sections
  - Development of long-term objectives and workplan for 2023-24

# Report on heat & infectious diseases

EEA Report | No 07/2022

## Climate change as a threat to health and well-being in Europe: focus on heat and infectious diseases



European Environment Agency 

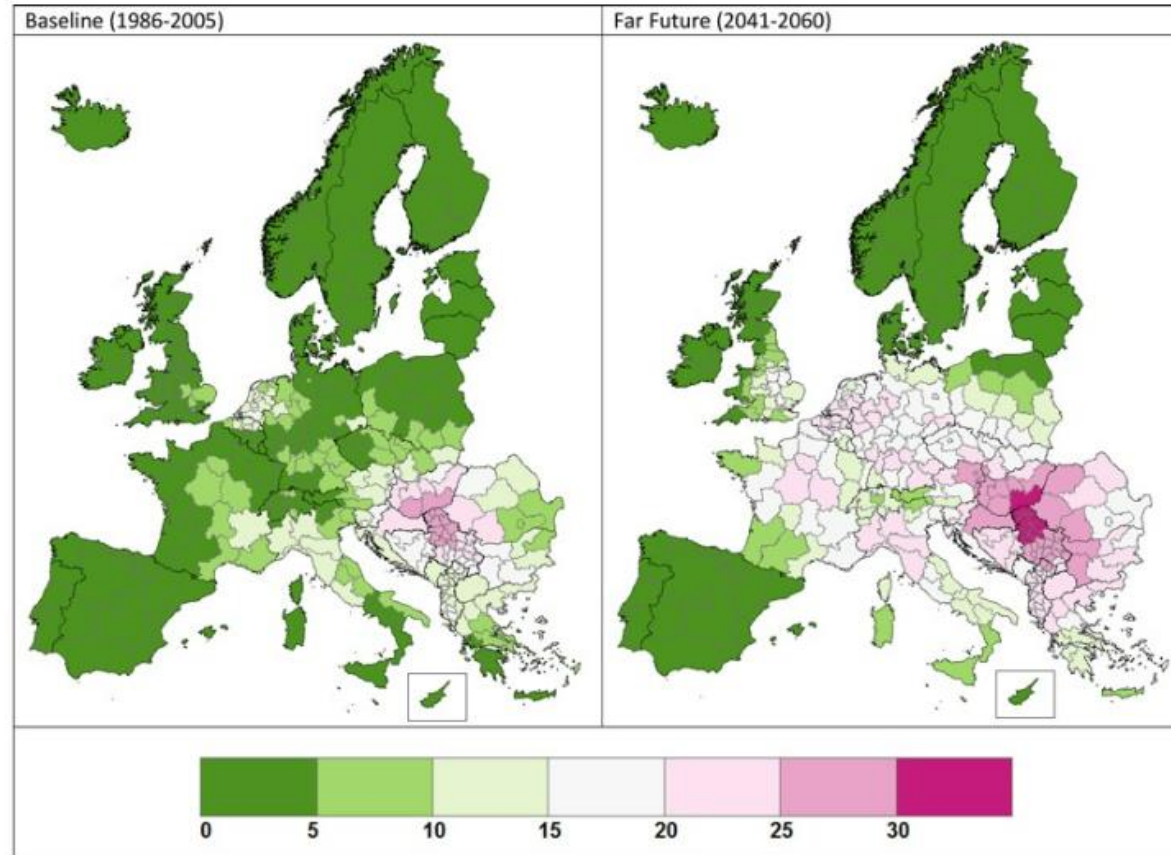
# Health-effects webpages

Evidence on climate and health -

## HEALTH EFFECTS

- Heat
- Wildfires
- Flooding
- Vector-borne diseases
- Water and food-borne diseases
- UV radiation
- Air pollution
- Mental health effects
- Aero-allergens

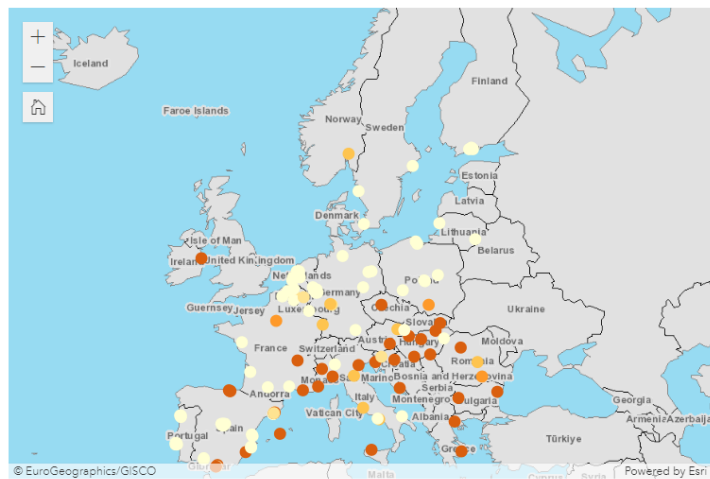
## Pollen



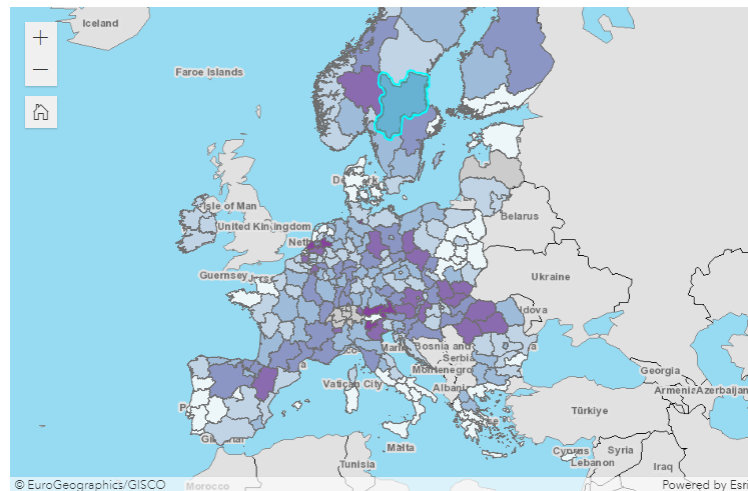
# Map viewers

## Exposure of vulnerable groups and social infrastructure to climate-related risks

Percentage of healthcare facilities within UHI > 2 °C in 100 European cities



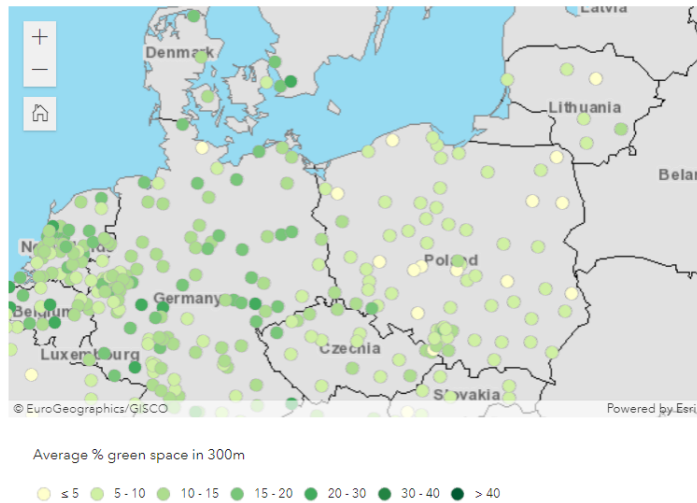
Percentage of educational facilities in potential flood-prone areas



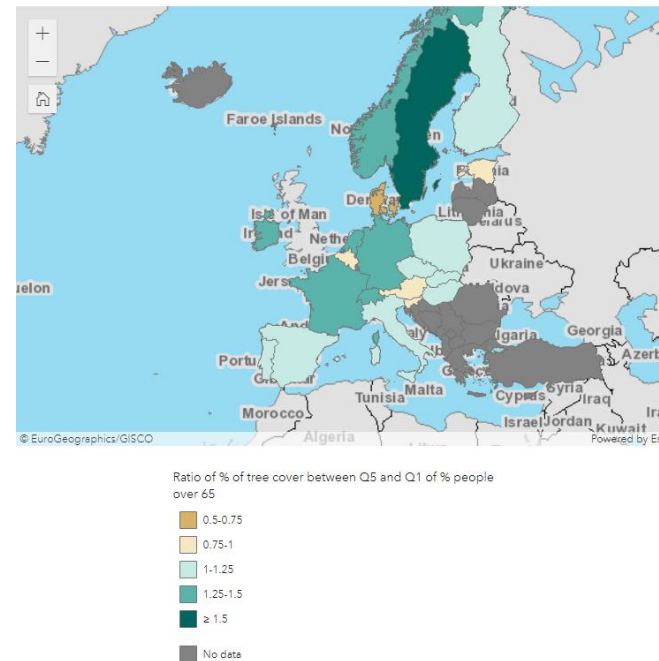
# Map viewers

## Distribution of urban green spaces in relation to vulnerable groups

Average percentage of urban green space within 300m distance from educational facilities in European cities

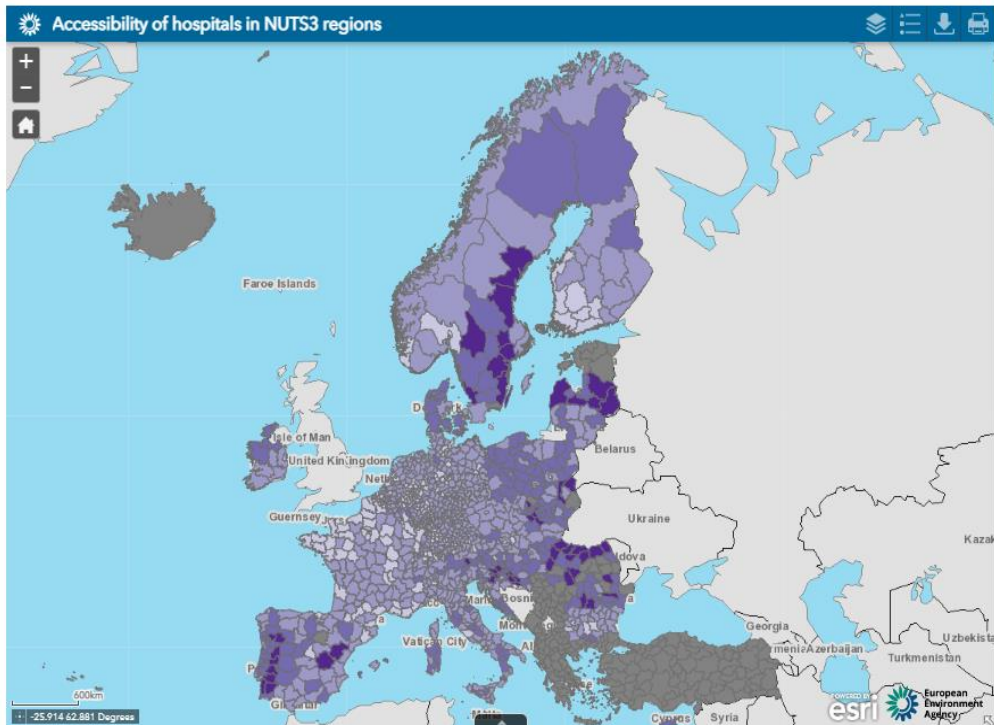


Ratio of percentage of urban tree cover in administrative units within Q5 (top 20%) and Q1 (bottom 20%) of proportion of people over 65

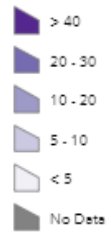


# Map viewers

## Accessibility of hospitals in Europe



Average travel time to the nearest hospital




# Indicators

- Updating existing indicators
- > 10 new indicators



**VULNERABILITY TO EXTREMES OF HEAT IN EUROPE**

Year: 2022  
Source: [Lancet Countdown](#)



**CLIMATE SUITABILITY FOR INFECTIOUS DISEASE TRANSMISSION - DENGUE**

Year: 2022  
Source: [Lancet Countdown](#)



Search

- Vulnerability to extremes of heat in Europe**  
2022 Lancet Countdown
- Climate suitability for infectious disease transmission - Dengue**  
2022 Lancet Countdown
- Heat-related mortality in Europe**  
2022 Lancet Countdown
- Labour supply and temperature in Europe**  
2022 Lancet Countdown

...



# Examples of solutions: case studies

## Paris Oasis Schoolyard Programme, France



©Marie Konstantinovich

After the devastating 2003 and 2017 heatwaves and in light of projections that predict increasing frequency and duration of heatwaves in the future, the City of Paris embarked on developing a range of initiatives to address this threat recognising that different social groups and different areas of the city have unequal vulnerabilities. Having identified the high level of soil sealing and lack of access to green cool spaces as some of the key spatial factors behind increased vulnerability to heatwaves, Paris developed the “OASIS – Openness, Adaptation, Sensitisation, Innovation and Social Ties” schoolyard greening programme, an example of just adaptation

initiative  
schoolyard  
This way,

## Protecting outdoor agricultural workers from extreme heat in Puglia, southern Italy



© Sabina Baseggio

Average annual temperature in Italy has increased by 1.1°C since 1880, and with that the exposure of people to heatwaves. High temperatures create uncomfortable or even dangerous working conditions for health that may reduce both working hours (labour supply) and workers' performance during these working hours (labour productivity; [Dasgupta et al., 2021](#)). The number of occupational injuries related to exposure to extreme temperatures has significantly increased in Italy. Due to future warming, the southern Italian regions are projected to suffer the highest declines in labour productivity in Europe ( [Schleypen et al., 2020](#)).

The region of Puglia experienced prolonged high temperatures during June and July 2021, reaching as high as 40°C in some places. Along with declining productivity, the climatic conditions

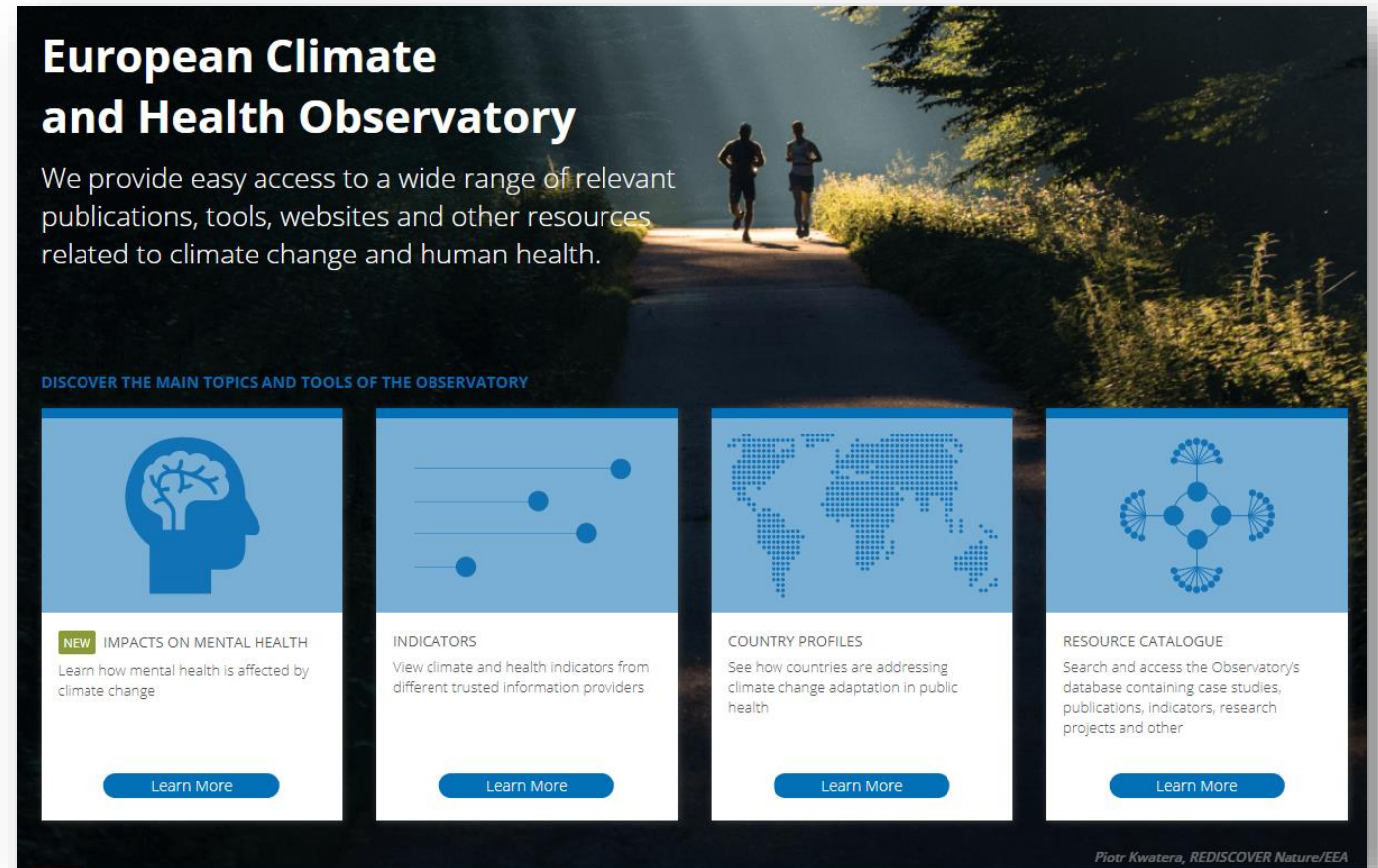


# Plans for late 2022 and 2023

- **Development of workplan 2023-24**  
(thematic focus + continuous development)
- **Factsheets on climate-sensitive infectious diseases**
- **Climate impacts on occupational health and safety**  
(evidence overview)
- **Further indicators**  
(Lancet Countdown in Europe)

# Topic II European Climate and Health Observatory

## Feedback, questions, answers



**European Climate and Health Observatory**

We provide easy access to a wide range of relevant publications, tools, websites and other resources related to climate change and human health.

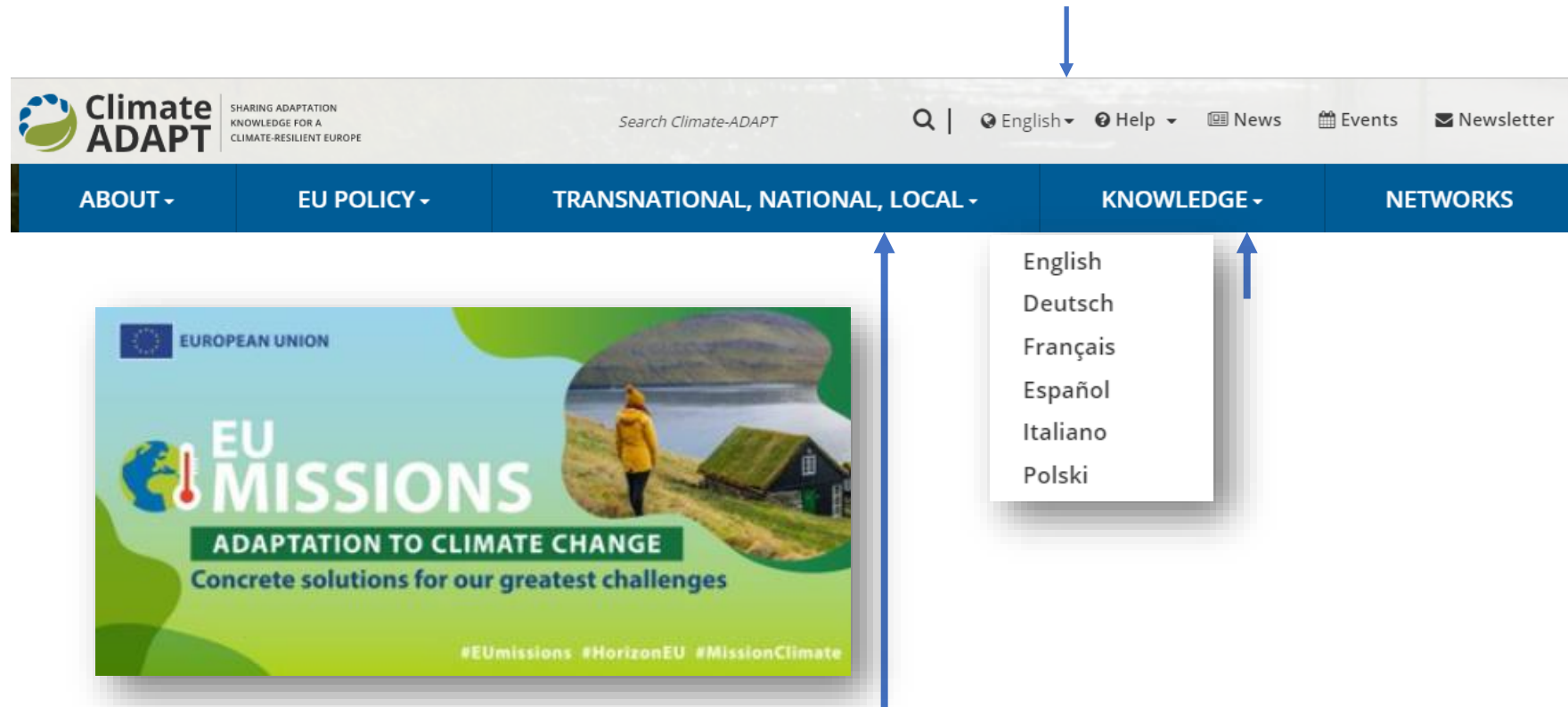
DISCOVER THE MAIN TOPICS AND TOOLS OF THE OBSERVATORY

- NEW IMPACTS ON MENTAL HEALTH**  
Learn how mental health is affected by climate change  
[Learn More](#)
- INDICATORS**  
View climate and health indicators from different trusted information providers  
[Learn More](#)
- COUNTRY PROFILES**  
See how countries are addressing climate change adaptation in public health  
[Learn More](#)
- RESOURCE CATALOGUE**  
Search and access the Observatory's database containing case studies, publications, indicators, research projects and other  
[Learn More](#)

Piotr Kwiatka, REDISCOVER Nature/EEA

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

# Topic III Mission on adaptation to climate change



## Faster adaptation

### Adaptation at sub-national/local levels:

Supporting the beneficiaries of the Mission on Adaptation

Reporting on the progress of the Mission on adaptation

# Topic III Supporting the Mission on Adaptation to climate change

## EEA will support the Mission on Adaptation with:

- Data and knowledge for regional information on climate change impacts and risks
- Guidelines and tools for adaptation solutions
- Monitoring/reporting of implementation progress
- EIONET provides unique capabilities to facilitate implementation

## Climate-ADAPT:

## Mission Knowledge Hub

## Mission Implementation Platform (Jan 2023)



# Mission Knowledge Hub (mock-up)

climate-adapt.eea.europa.eu

**Climate ADAPT** SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE

Search Climate-ADAPT | Help | News | Events | Newsletter

**ABOUT -** **EU POLICY -** **COUNTRIES, TRANSNATIONAL REGIONS, CITIES -** **KNOWLEDGE -** **NETWORKS**

**New EU Strategy on Adaptation to Climate Change**

As part of the European Green Deal, the EU launched the new EU Strategy on Adaptation to Climate Change. It comprises actions to implement the EU's long-term vision, which looks forward to 2050. ...

[» READ MORE](#)

Image credits: Luciano Pia

**New feature**

**Knowledge Hub** ADAPTATION TO CLIMATE CHANGE

**EU Sector Policies**

**Country Profiles**

**Case Studies**

**Adaptation Support Tool**

The Mission's knowledge hub provides information on climate risks and gives access to guidelines and tools for developing and implementing adaptation solutions

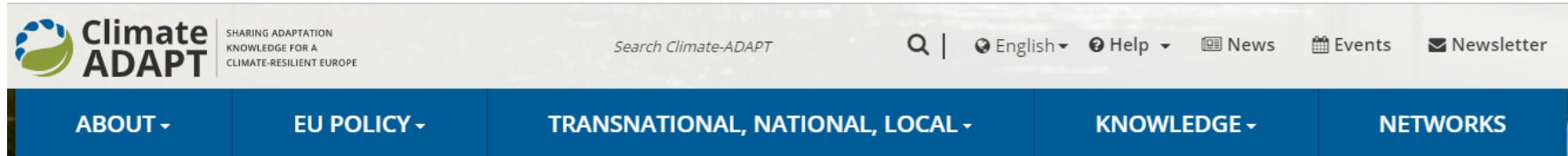
**Interactive Map Viewer**

**Data & Tools**  
Interactive dashboards

**Regional Adaptation Support Tool**

**Adaptation Pathways**  
Resource Catalogue

# Topic IV Further advancing Climate-ADAPT case studies



The screenshot shows a detailed case study page for "Building fire resilience using recycled water in Riba-Roja de Túria, Spain". It includes a title, a small diagram, and several paragraphs of text describing the project's context, goals, and implementation. A "Case Study Description" section lists "Challenges" and "Objectives". On the right side, there is a "Case Study Illustrations (5)" section with a photo of a water reservoir and a "Date of creation: 2022" field. Other fields include "Sectors", "Climate impacts", "Governance level", "Geographic characterization", "Macro-Transnational region", and "Biogeographical regions".



↑

**Smarter adaptation  
Tools and guidance**

- Upgrade of Climate-ADAPT case studies towards best practice

# Topic IV Further advancing Climate-ADAPT case studies: where can I find them?

The screenshot shows the top of the Climate-ADAPT website. The logo on the left reads "Climate ADAPT" with the tagline "SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE". To the right is a search bar and navigation links for "Help", "News", "Events", and "Newsletter". Below this is a dark blue navigation bar with five menu items: "ABOUT", "EU POLICY", "COUNTRIES, TRANSNATIONAL REGIONS, CITIES", "KNOWLEDGE", and "NETWORKS". The "KNOWLEDGE" item is highlighted with a red rectangular box.

## new developments on Climate-ADAPT

Assisting the implementation of EU Adaptation policies – new developments on Climate-ADAPT ...



Source: Kathrin Prenger, Climate Change PIX /EEA

A horizontal row of five buttons with icons and text. From left to right: "New feature" (megaphone icon), "Search the Database" (database icon), "EU Sector Policies" (clipboard icon), "Country Profiles" (EU map icon), and "Case Studies" (document with magnifying glass icon). The "Case Studies" button is highlighted with a red rectangular box.

The logo features a magnifying glass over a globe. Text below reads "European Climate Data Explorer".

The logo features a heart with a pulse line. Text below reads "European Climate and Health Observatory".





# Topic IV Further advancing Climate-ADAPT case studies: introduction

Adaptation is occurring

Increase awareness

Increase learning

Inspire new adaptation actions

**Climate-ADAPT case studies are a collection of initiatives of climate change adaptation undertaken in Europe at different spatial scales (local, subnational, national, transnational) to learn from real examples**



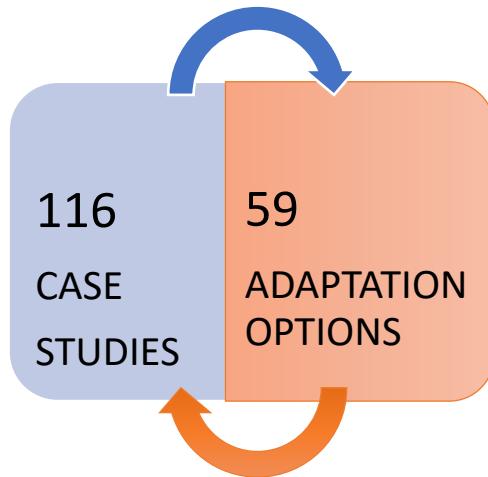
Service of Urdaibai Biosphere Reserve

[Restoration of the Oka River's upper estuary, part of the Urdaibai Biosphere Reserve](#)

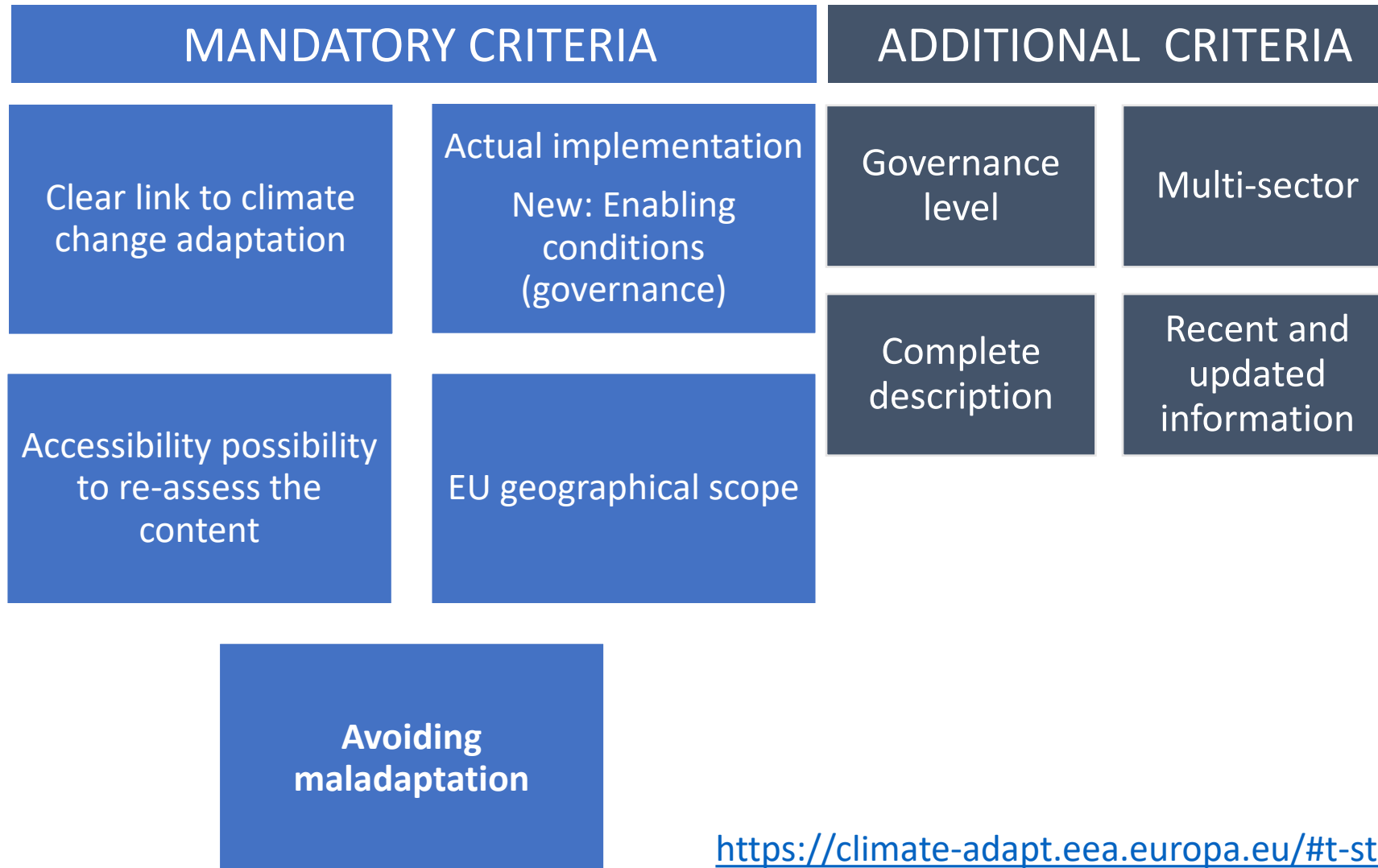


Vicente Adobes Golf

[Building fire resilience using recycled water in Riba-Roja de Túria, Spain](#)



## Topic IV Further advancing Climate-ADAPT case studies: selection criteria



- Need for criteria to ensure quality and consistency
- Transparent communication of criteria
- Periodical revision of criteria to ensure users' needs

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

# Topic IV Further advancing Climate-ADAPT case studies : best practice criteria

1.Relevance to respond to needs

2.Coherence with policies

3.Long term impact on adaptation

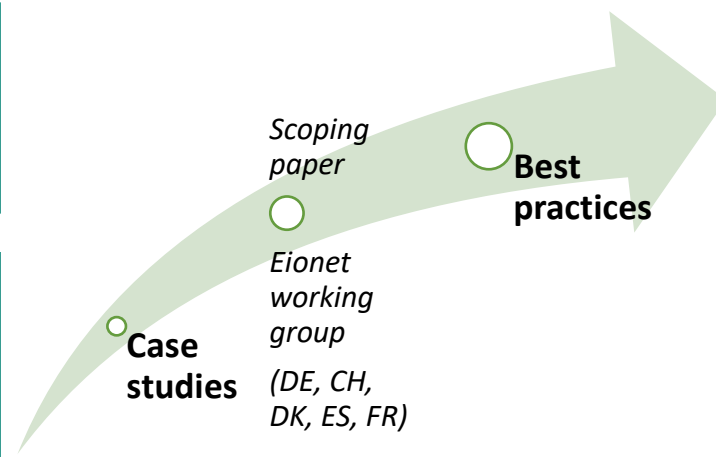
4.Environment and society

5.Participation and inclusion

6.Efficiency

7.Replicability

8.Contact



## Definition (proposal)

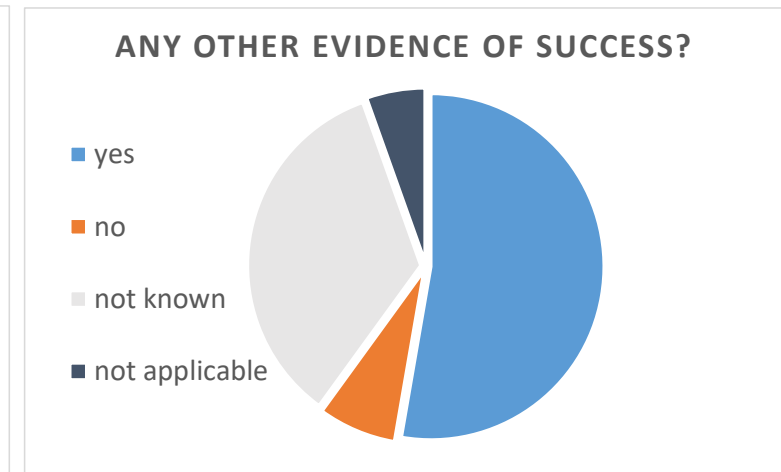
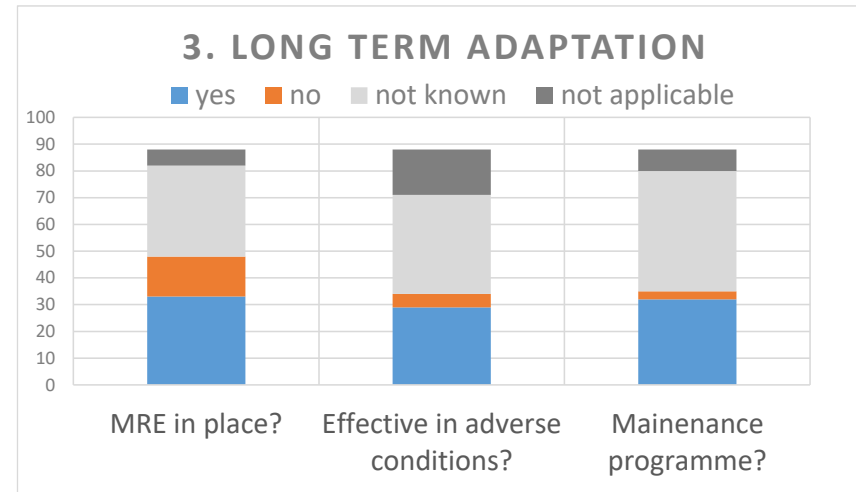
Adaptation processes or interventions that are able to respond to the current and future needs and challenges posed by climate change, effective under uncertain and changing conditions, with proven evidence of success that can be easily accessed.

Best practices are sustainable in the long term, providing benefits for the environment and/or for the society. They offer successful examples that can be periodically re-assessed to follow up their development over time

# Topic IV Further advancing Climate-ADAPT case studies: self-assessment

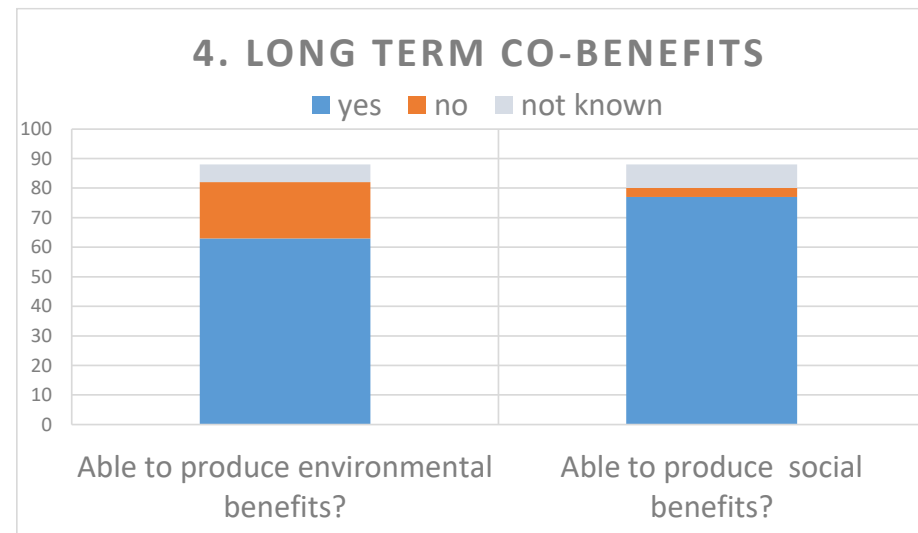
## Long term impact on adaptation

- MRE in place?
- Effective in adverse conditions?
- Other evidence of success?
- Maintenance programme?



## Environment and society

- Able to produce environmental benefits?
- Able to produce societal benefits?



- To improve information on maintenance, MRE and other evidence of success
- To ensure more systematical description of co-benefits

# Topic IV Further advancing Climate-ADAPT case studies: first outcomes of self-assessment

## Natural Water Retention Measures in the Altovicentino area (Italy)

- Case study prepared in 2020, updated in 2022
- North-eastern part of Italy
- Increasing risk of intense precipitation and flooding
- Natural Water Retention Measures (rain gardens, bioretention areas, rainwater harvesting system, detention basin)
- [BEWARE](#) “Better Water Management for Advancing Resilient-communities in Europe” LIFE funded project

### Long term impact on adaptation

- Hydrological monitoring: good performance of water retention
- Monitoring beyond the project

### Environmental and societal benefits

- Environmental monitoring: decreased concentration of some pollutants, biodiversity improvement

### Replicability

- Cost-benefit analysis
- Combined effects of multiple interventions in the same area

### Participation and inclusion

- Participatory approach
- Study visits
- On-site training



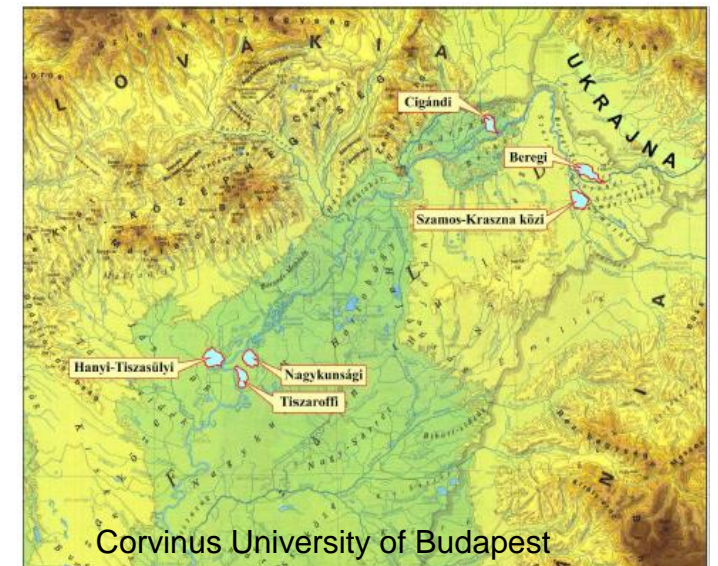
# Topic IV Further advancing Climate-ADAPT case studies: first outcomes of self-assessment

## Temporary flood water storage in agricultural areas in the Middle Tisza river basin - Hungary

- Case study prepared in 2014, updated in 2022
- Danube's longest and second largest tributary
- Continuous increase of peak flood water levels
- Flood risk management strategy of Tisza River
- Cost-effective temporary flood water storage reservoirs
- EU FP7 funded project [EPI-Water](#), Evaluating Economic Policy Instruments for Sustainable Water Management in Europe



<https://www.vizugy.hu/>



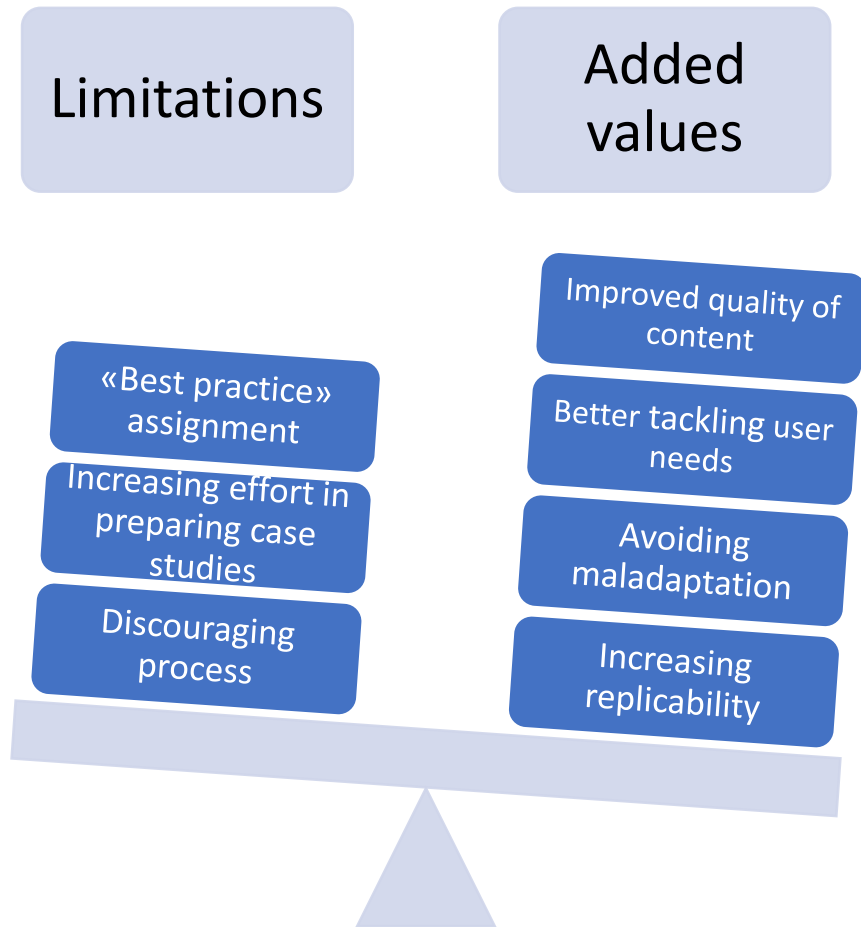
Corvinus University of Budapest

European Environment Agency



Long term impact on adaptation	Coherence with policies	Replicability	Participation and inclusion
<ul style="list-style-type: none"><li>• Successful for the 2010 flood event</li><li>• Hydrological modelling</li></ul>	<ul style="list-style-type: none"><li>• flood risk management strategy</li><li>• wider process of regional development</li><li>• restoration of wetlands</li><li>• EU WFD</li></ul>	<ul style="list-style-type: none"><li>• Scalable and flexible</li><li>• Compensation scheme for farmers</li><li>• Ex-post cost-benefit analysis</li></ul>	<ul style="list-style-type: none"><li>• EPI-Water Project</li><li>• Landowners and farmers</li><li>• Regional water directorate</li></ul>

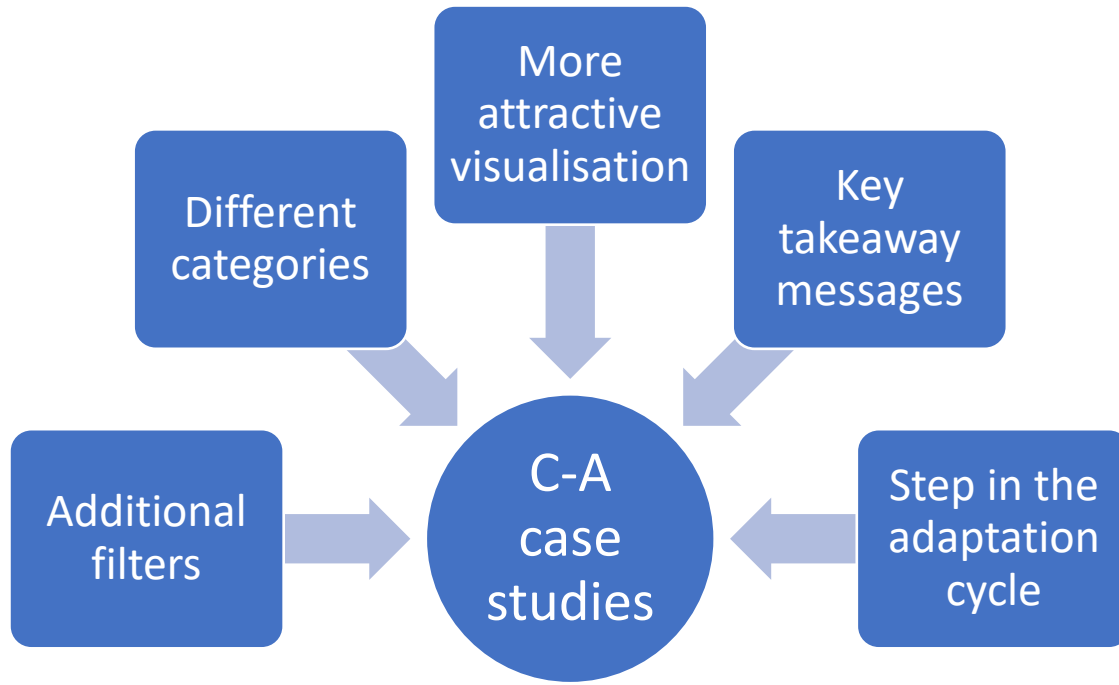
# Topic IV Further advancing Climate-ADAPT case studies: short-term outlook



## Towards Climate-ADAPT best practice case studies

- Complete and refine the assessment of the whole dataset of case studies using the best practice criteria
- Systematically improve the content of case studies with key information
- Sharing experiences in case studies and best practices among different information platforms
- Consolidating our check-list for evaluating best practices

## Topic IV Further advancing Climate-ADAPT case studies: medium-term outlook



- Mutual learning from other platforms (national and international)
- Listening to users needs

**Send proposals of case studies to:**

[climate.adapt@eea.europa.eu](mailto:climate.adapt@eea.europa.eu)

[chiara.castellani@thetis.it](mailto:chiara.castellani@thetis.it)

with a few lines about the initiative, you are going to showcase (short abstract)



# 2023 Adaptation options and case study work

## Improving adaptation options

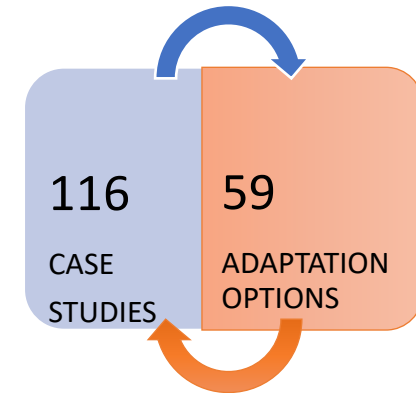
- linking adaptation options to the EU reporting activities (key types of measures)
- Improving their usability

## Publishing new case studies

- Supporting EEA assessment reports (urban adaptation)
- Supporting practitioners' needs in key vulnerable sectors (forestry)

## Preparing an EEA interactive online publication on the added value of Climate-ADAPT adaptation options and case studies

- showing how case studies illustrate adaptation options
- presenting case studies in the context of EEA Member countries' case study catalogues



# Interactive session IV Further advancing Climate-ADAPT case studies

## Questions, feedback Answers

The screenshot shows the Climate-ADAPT website homepage. At the top left is the Climate-ADAPT logo with the tagline 'SHARING ADAPTATION INFORMATION ACROSS EUROPE'. To the right is a search bar and navigation links for Help, News, Events, and Newsletter. Below the header is a main navigation menu with categories: ABOUT, EU POLICY, COUNTRIES, TRANSNATIONAL REGIONS, CITIES, KNOWLEDGE, and NETWORKS. The main content area features a large image of two people jogging on a path, with a text box on the right titled 'Keeping healthy in a changing climate - Launch of the European Climate and Health Observatory'. Below this is a row of five small thumbnail images: 'About Climate-ADAPT', 'Health Observatory launch recording', 'New EU Strategy on Adaptation', 'Case Study', and 'Most recent Publication or Report'. A 'READ MORE' link is positioned to the right of these thumbnails. Below the main content is a horizontal bar with six icons and labels: 'New feature', 'Search the Database', 'EU Sector Policies', 'Country Profiles', 'Case Studies', and 'Adaptation Support Tool'. The bottom section contains two featured articles. The first is 'European Climate Data Explorer', described as providing interactive access to climate indices from the Copernicus Climate Change Service. The second is 'European Climate and Health Observatory', described as providing access to a wide range of relevant publications, tools, websites, and other resources related to climate change and health. Both articles have a blue button at the bottom with the text 'Go to the [article name]'.

Climate-ADAPT SHARING ADAPTATION INFORMATION ACROSS EUROPE

Search Climate-ADAPT Database items. | Help | News | Events | Newsletter

ABOUT - EU POLICY - COUNTRIES, TRANSNATIONAL REGIONS, CITIES - KNOWLEDGE - NETWORKS

Keeping healthy in a changing climate - Launch of the European Climate and Health Observatory

The European Commission and the European Environment Agency, in cooperation with the European Policy Centre, invite you to look at the recording of the official launch of the new European Climate and Health Observatory. ...

> READ MORE

Source: Piotr Kwatka, REDISCOVER Nature/EEA

New feature

Search the Database

EU Sector Policies

Country Profiles

Case Studies

Adaptation Support Tool

European Climate Data Explorer

The European Climate Data Explorer provides interactive access to many climate indices from the Copernicus Climate Change Service in support of climate change adaptation.

Go to the European Climate Data Explorer

European Climate and Health Observatory

The European Climate and Health Observatory provides access to a wide range of relevant publications, tools, websites and other resources related to climate change and health.

Go to the European Climate and Health Observatory

# Topic V Assisting the uptake of Climate-ADAPT knowledge

## Progress towards the 2024 objective (Aligning Climate-ADAPT and national adaptation knowledge platforms)

### EEA Activity 1

National platforms/Climate-ADAPT presented together to national/local level stakeholders in national languages

- Added value for stakeholders in 11 countries
- DE scheduled, GR, HR, NO, DK, PT under consideration

### EEA Activity 2

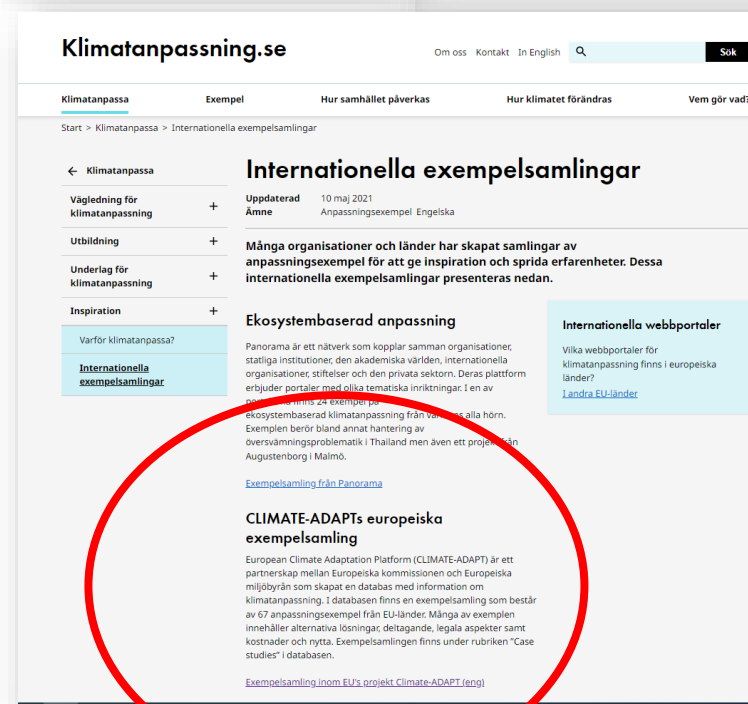
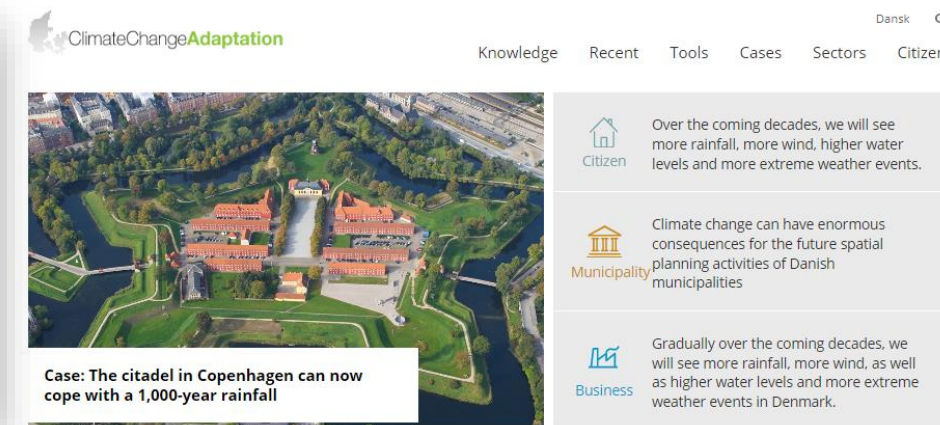
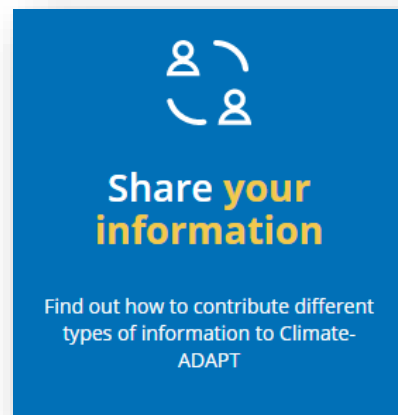
EEA Member countries platforms guiding their stakeholders to complementary Climate-ADAPT knowledge:

- 10 plus 2 platforms with links to the Climate-ADAPT homepage
- 3 platforms with links to specific Climate-ADAPT features such as case studies (ES, SE, DK)
- Additional national platforms guiding to Climate-ADAPT (SK, RO)

### EEA Activity 1

Keeping up-to-date with EU adaptation policy/knowledge development and supporting peer-to-peer learning across EEA Member countries:

- More news/events/newsletter contributions in 2022
- Slight increase in contributions from Central and Eastern European countries



# Topic IV Assisting the uptake of knowledge

## Contribution of Climate-ADAPT to 11 national level events

- Funded by DG CLIMA, organised by EEA
- Proposals by countries, done
- Proposed by countries, planned

Event	Country	Date	Means	Target audience
National and EU-level adaptation information	SI	08 April 2022	online	National, regional, local
National and EU-level adaptation information	PL	24 May	online	National, regional, local
National and EU-level adaptation information	SK	25 May	online	National, regional, local
National and EU-level adaptation information	BG	31 May	online	National, regional, local
National and EU-level adaptation information	RO	08 June	online	National, regional, local
Expert/multiplier meeting on national adaptation platform	CZ	June	online	National
Summer school on governance	IT	June	In person	Local
National adaptation platforms supporting MRE of adaptation	FR	30 September 2022	Hybrid	National, regional, local
Ready, set, go - Swedish national adaptation conference	SE	4/5 October 2022	In presence	National, regional, local
National adaptation conference	LT	10 November 2022	online	Local
Delta congress	NL	10 November 2022	online	National, regional, local
Ask an expert	DE	18 January 2022	online	local

# Added value of presenting Climate-ADAPT in national level events

## Dutch Delta Congress, 10 November 2022

### Knowledge needs

- How to assess climate impacts from areas outside water board regions that might influence future work and to include this in adaptation plans?

### Using Climate-ADAPT

- enthusiastic about possibilities of knowledge and tools

### Knowledge sharing

- 6 concrete ideas for case studies
- 2 suggestions for inclusion in the Network section
- Suggestions for News and Events/Newsletter
- Guiding Dutch Water related user communities to Climate-ADAPT

## National Adaptation Conference Klimatanpassning: Ready, steady go, Norrköping 4–5 oktober 2022

### Knowledge needs

- How to deal with heat waves, droughts?

### Using Climate-ADAPT the platform:

- Specific Interest in just resilience overview, case studies, all urban content

### Knowledge sharing

News on publications of the Nordic Council of ministers

## Five DG CLIMA funded online events (March to June 2022)

Using Climate-ADAPT:

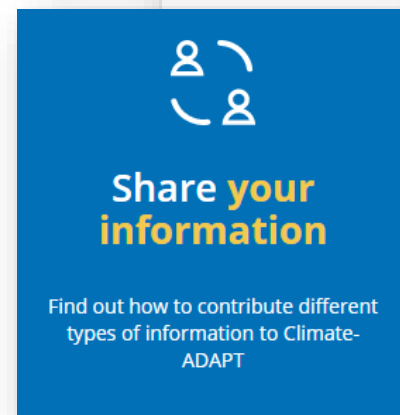
### Awareness raising

Country	Participants	Climate-ADAPT explored before
Bulgaria	30	100 %
Poland	429	60 %
Romania	76	29 %
Slovakia	88	20%
Slovenia	83	60%



# How you can support Climate-ADPT

- Contribute to 'news' and 'events', and the quarterly Climate-ADAPT Newsletter (Currently 6000 recipients)
- Share your information through the Climate-ADAPT database
- Guide your stakeholders towards Climate-ADAPT via web links
- Address your stakeholders jointly with us in your national level events
- Attend Climate-ADAPT webinars 2 times per year, made for the users and providers



# End of the Webinar

Feedback/questions:

[climate.adapt@eea.europa.eu](mailto:climate.adapt@eea.europa.eu)

The screenshot shows the homepage of the Climate ADAPT website. At the top, there is a navigation bar with the Climate ADAPT logo, the tagline "SHARING ADAPTATION KNOWLEDGE FOR A CLIMATE-RESILIENT EUROPE", a search bar, and links for English, Help, News, Events, and Newsletter. Below the navigation bar is a main menu with categories: ABOUT, EU POLICY, TRANSNATIONAL, NATIONAL, LOCAL, KNOWLEDGE, and NETWORKS. The main content area features a large image of a modern building with a curved facade. A prominent article headline reads "Climate change threatens the Norwegian food system" with a "READ MORE" link. Below this are several smaller article thumbnails. A central navigation bar contains icons and labels for: New feature, Search the Database, EU Sector Policies, Country Profiles, Case Studies, and Adaptation Support Tool. At the bottom, there are two featured sections: "European Climate Data Explorer" and "European Climate and Health Observatory", each with a brief description and a "Go to" button.