

HE Alkalmazkodás a Klímaváltozáshoz Misszió



Vision

- **ACCELERATING THE TRANSITION TO A CLIMATE PREPARED AND RESILIENT EUROPE**

- Turning the urgent challenge of adapting to climate change into an opportunity to make Europe more resilient, climate prepared and fair



Objectives



**Build
resilience**

up scaling solutions that
trigger transformations

75 demonstrators

**Accelerate transition
to a resilient future**

designing of vision and innovation pathways
and developing enabling conditions
and solutions

150 communities and regions

Prepare Europe for climate disruptions

better understanding, preparing for and managing
climate risks such as heatwaves, forest fires,
droughts, floods, storms and diseases

all citizens, communities and regions in

Target:

By 2030, all local administrative units (LAU) and regions (NUTS) will have access to climate risk profiles and enhanced early warning systems for all relevant risks, and will have adopted comprehensive climate risk management plans



- **Prepare Europe:**
- The Mission will support citizens, communities and regions to:
- **foster a better understanding** of climate risk exposure, providing access to fast track climate risk assessments and strengthening existing early warning systems;
- **facilitate the adoption of climate risk management plans** and community-based emergency plans; and
- **ensure that community infrastructure is safe and essential services operable and accessible** under critical conditions

Target:

By 2030, 150 European communities and regions will have developed their own transformative vision; co-created adaptation pathways; co-designed and tested actionable solutions; and created favourable conditions for societal transformations.

- **Accelerate the transition:**
- The Mission will support citizens, communities and regions, to:
- **design vision and objectives**, and build consensus around transformative social change enshrined in a community resilience contract;
- **co-create adaptation pathways**, and define possible courses of policy and innovation actions to deliver on the vision, resulting in a portfolio brief for action;
- **co-design and test actionable solutions**, and share learning within and across the communities and regions; and
- **create favourable conditions for societal transformations**



Target:

By 2030, 75 deep demonstrations have scaled-up actionable solutions that have triggered societal transformation, building deeper resilience

- **Build deep resilience:**
- Scaling up actionable solutions triggering societal transformations through 75 deep demonstrations of resilience, the Mission will
- **create impact at scale**, building of resilience in single regions and communities focusing on key community systems;
- **create cross-border value**, building of resilience and shared value creation across cross-border systems and services;
- **foster systemic and citizen-centred co-evaluation**, measuring progress made, assessing what has been accomplished and communicating the processes and outcomes



Mission Implementation Platform

- **Capacity building and development**
Knowledge on risk assessment methods; Support to carry out climate risk assessments; Support to accelerate the rollout of innovative solutions
- **Citizens engagement**
Access tools that the region can use to engage with citizens; Direct organization of events that empower citizens to act for adapting to climate change (together with the ClimatePact)
- **Monitoring and evaluation**
Tracking progress and reporting on the Mission different streams of activities; Visibility for regional efforts and progress to tackle climate change
- **Communication and dissemination**
Network with other regions; Sharing experiences; Access adaptation best practices from previous projects



Overarching principles

- **Focus on Demonstrations:**
- to take place in **at least 4** regions/ communities located in at least 3 MS / Associated countries
- (not exclusively Charter signatories)
- to include **at least 3** replicating regions/ communities interested in reapplying the lessons learnt
- (totally, partially or with the required adjustments)
- **Portfolio approach:**
- Projects will be selected to assure best possible coverage of the different biogeographical areas;
- for this purpose proposals should indicate the area of focus
- Seal of excellence will be awarded



- **Opening:** 10 January 2023
- **Deadline:** 20 September 2023
- **Demonstration of climate resilience solutions in support of the implementation of the Adaptation to Climate Change Mission**
- Testing and demonstrating transformative solutions increasing climate resilience of the agriculture and/or forestry sector
- Testing and demonstrating transformative solutions to protect critical infrastructure from climate change, mainstreaming nature based solutions
- Testing and demonstrating transformative solutions to build resilience towards health risks caused by the effects of climate change



HORIZON-MISS-2023-CLIMA-01-01:

Testing and demonstrating transformative solutions increasing climate resilience of the agriculture and/or forestry sector

- **Total budget:** 30 million EUR, **Project budget:** 8-10 million EUR
- **Funded projects:** 3
- **Type of action:** IA
- **Expected TRL:** 6-8
- **Scope:**
 - Improving resilience of the **agriculture and /or forestry sector**, improving the capacity of the sector to withstand dry periods and extreme droughts while protecting the ecological flows and preserving biodiversity
 - Exploiting **agro-ecology** as an approach to enhance the climate resilience of the farming system, its functionality and sustainability, while bringing sustainable solutions and multiple benefits



HORIZON-MISS-2023-CLIMA-01-01:

Testing and demonstrating transformative solutions increasing climate resilience of the agriculture and/or forestry sector

- Exploring integration of available smart farming approaches (and improvements of the same based on updated data) and the use of technologies as the AI and the Internet of Things (IoT) to improve climate resilience, while also reducing emissions and preserving biodiversity
- Development of more natural ecosystems, generating combined benefits, by increasing recurring to green infrastructures, tree planting, or increasing of permeable green surfaces
- Further demonstrate and increase awareness of the value of maintaining and restoring existing natural systems, preservation of cultural landscapes and socio-ecological systems as proving rich spectrum of climate services compared to other anthropogenic solutions



HORIZON-MISS-2023-CLIMA-01-02:

Testing and demonstrating transformative solutions to protect critical infrastructure from climate change, mainstreaming nature based solution

- **Total budget:** 35 million EUR
- **Project budget:** 8-11 million EUR
- **Funded projects:** 3
- **Type of action:** IA
- **Expected TRL:** 6-8
- **Scope:**
- **Protecting critical infrastructure** and make it ready to withstand the changing climate and its consequences (maintaining efficiency of operations, reducing maintenance costs and protecting the capital invested)
- Solutions for building and/or managing new critical infrastructure and/or upgrading/regenerating/revitalising/refurbishing existing ones through green/blue/hybrid infrastructure
- Inclusion of **digital and space solutions and services** to better predict, monitor and report on climate events, in particular towards improve forecasts of adverse events and triggering adequate risk management and emergency procedures



HORIZON-MISS-2023-CLIMA-01-02:

Testing and demonstrating transformative solutions to protect critical infrastructure from climate change, mainstreaming nature based solution

- Support development and testing of solutions that will make existing or new critical infrastructure more resilient to climate change, in line with the most recent guidelines for climate proofing
- Links with the topic 2021-CLIMA-02-03 on modeling at the asset level
- Include lifecycle ecological and CO2 footprint considerations, from sourcing the materials, including water and energy needed
- Address the local vulnerabilities in order to mitigate the potential risks on the infrastructure and the potential negative impacts on critical assets and infrastructures and the interdependencies between those



HORIZON-MISS-2023-CLIMA-01-03:

Testing and demonstrating transformative solutions to build resilience towards health risks caused by the effects of climate change

- **Total budget:** 18 million EUR
- **Project budget:** 4,5-6 million EUR
- **Funded projects:** 3
- **Type of action:** IA
- **Expected TRL:** 6-7
- **Expected outcome:**
 - regions, local authorities and communities have been involved in **development and testing** of a whole range of **transformative solutions** that will help to mitigate the effect of climate change on **health and human wellbeing**, including making the health sector more climate resilient and better prepared to mitigate the climate change related health challenges
 - climate resilience **solutions** that protect human health have been developed, tested and are made largely **available**



HORIZON-MISS-2023-CLIMA-01-03:

Testing and demonstrating transformative solutions to build resilience towards health risks caused by the effects of climate change

- **Scope:**
- **Improve prevention and policy-making**
- Improved insights into short- and long-term **health effects of climate-related stressors** (taking into consideration differences between infectious and non-communicable diseases; emphasis on zoonotic diseases). These insights should be made available to the regional/local authorities for their planning. [Link to the European Climate and Health Observatory](#)
- Strengthening comprehensive and user friendly epidemiological **surveillance and modelling and forecasting tools**
- Development of better forecast, **early-warning and early response systems and decisionmaking models** for health impacts of climate change, which are able to **monitor** both the impact and the effectiveness of solutions
- Development and health impact assessment of adaptation measures and monitoring of **effectiveness of solutions** to improve resilience



HORIZON-MISS-2023-CLIMA-01-03:

Testing and demonstrating transformative solutions to build resilience towards health risks caused by the effects of climate change

- **Improve preparedness of health systems**
- **Development of innovative solutions** (technological solutions, NBS, etc) to reduce impact of climate change on human health and wellbeing (heat and cold waves and floods should be among the stressors considered and/or could consider the association with environmental conditions)
- Preparing **training curricula** on health and climate change for medical and other healthcare **professionals** across Europe. The proposed curricula should be trailed in the partner regions and communities, training pilot group of professionals
- Development of innovative, fit-for-purpose, end-user driven **early warning and response systems** or improving existing ones, including a demonstration of their predictive/response capacity
- Providing **feedback** and **sharing best practice** from pilots to the new Health Emergency Preparedness and Response Authority



Joint Call between Mission 100 Climate Neutral and Smart Cities by 2030 and Mission Adaptation to Climate Change

Demonstration of climate mitigation and resilience solutions in support of the implementation of the Adaptation to Climate Change and Cities Missions

- **Urban greening and re-naturing for urban regeneration, resilience and climate neutrality**
- **Opening:** 10 January 2023
- **Deadline:** 27 April 2023
- **Project budget:** 10-12 million EUR
- **Funded projects:** 4
- **Type of action:** IA
- Regenerated, rehabilitated, climate-proofed, resilient, environmentally, socially and economically upgraded built environment
- Improved liveability, functionality, quality of life and social cohesiveness of the urban areas
- Integrated, transdisciplinary, adaptive, transparent and participative urban planning practices and decision making processes
- Innovative methods, digital tools and data-driven model



Joint Call between Mission Restore our Ocean and Waters by 2030, Mission Adaptation to Climate Change and Mission A Soil Deal for Europe

Demonstration of climate mitigation and resilience solutions in support of the implementation of the Adaptation to Climate Change, Restore our Ocean and Waters by 2030 and A Soil Deal for Europe Missions

- **Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe – Joint demonstration of an integrated approach to increasing landscape water retention capacity at regional scale**
- **Opening:** 17 January 2023
- **Deadline:** 27 April 2023
- **Project budget:** 15 million EUR
- **Funded projects:** 1
- **Type of Action:** IA
- **Expected TRL:** 6-7
- Demonstrated effective and inclusive integrated approaches to the management of landscape, soil, water and vegetation at a regional level
- Demonstrated effective nature-based solutions and ecological approaches to increase landscape water retention capacity
- Demonstrated economic feasibility of these solutions
- Better information and greater mobilisation of all relevant actors



Useful links to the Mission on Adaptation to Climate Change



- Climate Mission official website: https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/eu-missions-horizon-europe/adaptation-climate-change_en
- Implementation Plan: https://ec.europa.eu/info/sites/default/files/research_and_innovation/funding/documents/climat_mission_implementation_plan_final_for_publication.pdf
- Bizottsági info nap (felvétel és prezentáció): https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/eu-missions_en
- Nemzeti Kapcsolattartói Hálózat (NCP): <https://www.horizonteuropa.nkfi.gov.hu/horizont-europa-program/nemzeti-kapcsolattartok>

Köszönöm a figyelmüket!

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