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EU MISSIONS

ADAPTATION TO CLIMATE CHANGE

EU Missions Info Days
17 January 2023



#EUmissions #HorizonEU #MissionClimate



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Agenda

- Welcome words
- Mission State of Play
- Climate Mission calls in Work-Programme 2023
- Joint calls with other Missions

- Q&A:



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Channel Adaptation to Climate Change

please: mention the code of the topic!

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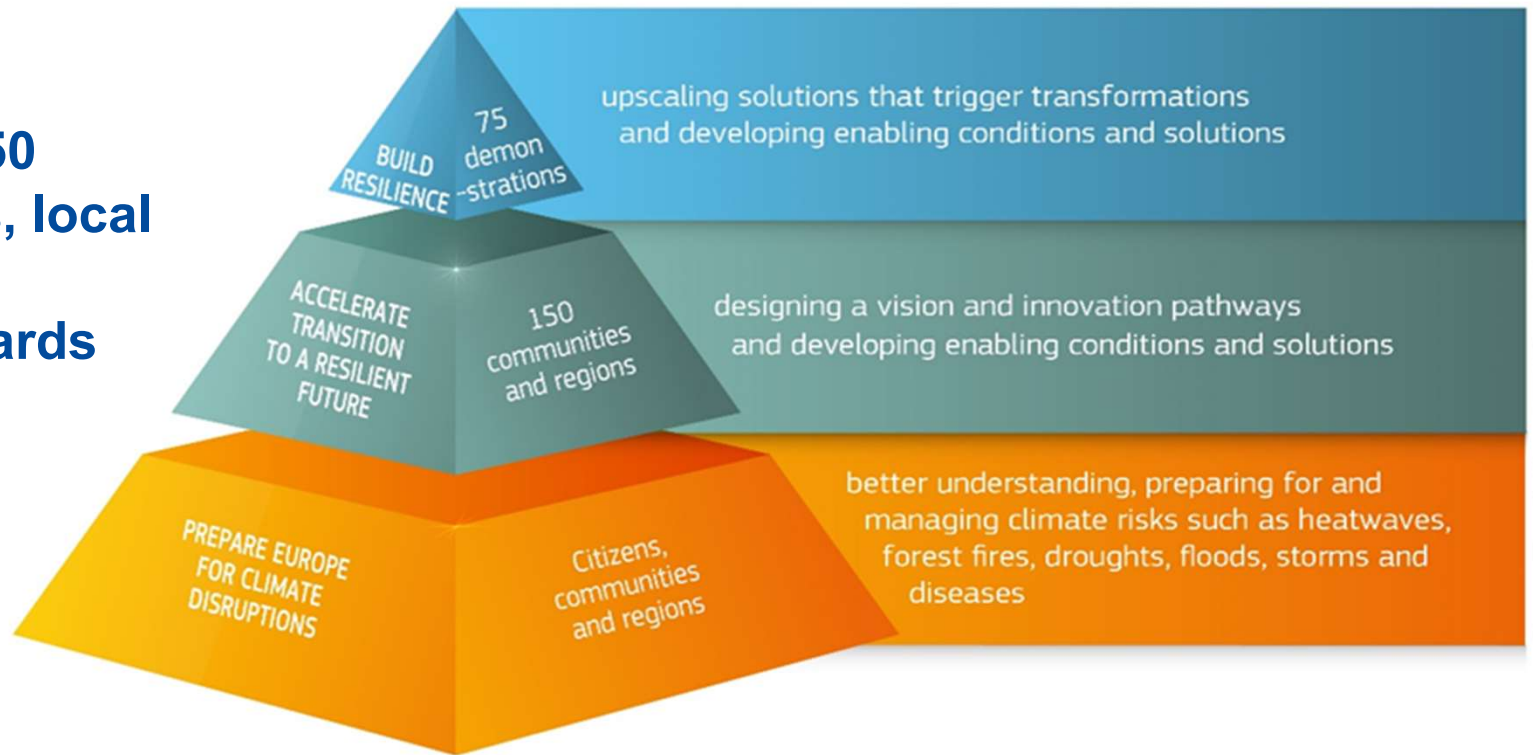




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Mission objectives

To help at least 150 European regions, local authorities and communities towards climate resilience by 2030





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State of Play

Mission Charter Signatories:

- Already in September we announced 215 Signatories - Expression of Interest closed 25/11
- Strong interest registered across Europe and Associated Countries
- Quite diverse range of population sizes and geographical characteristics
- Confirmation of the political commitment of those retained is in progress



Large regions



Cities



Provinces



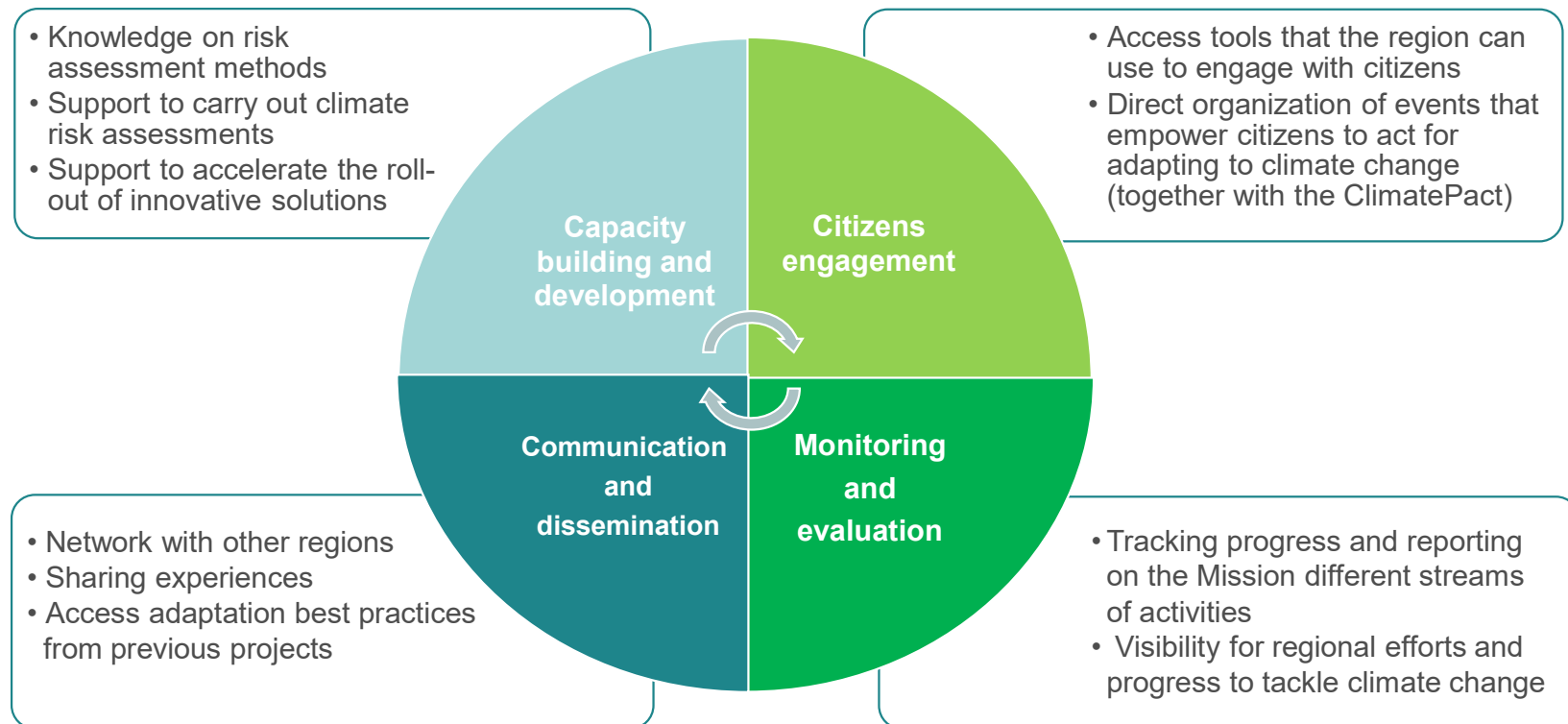
Municipalities



Capitals



Mission Implementation Platform just started operation





First Mission projects started:

- CLIMAAX: A common climate risk assessment framework, also supporting to 50 regions to implement it
- PEERS: Supporting 100 regions to develop local climate resilience building strategies and plans
- RESIST and R4C: Two large scale demonstrations taking place in the regions
- MIRACA, RISKADAPT, ICARIA: asset level modelling
- CLIMAS, AGORA: local engagement of citizens

More information [here](#)



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Mission Open Calls:



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Overview: 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**

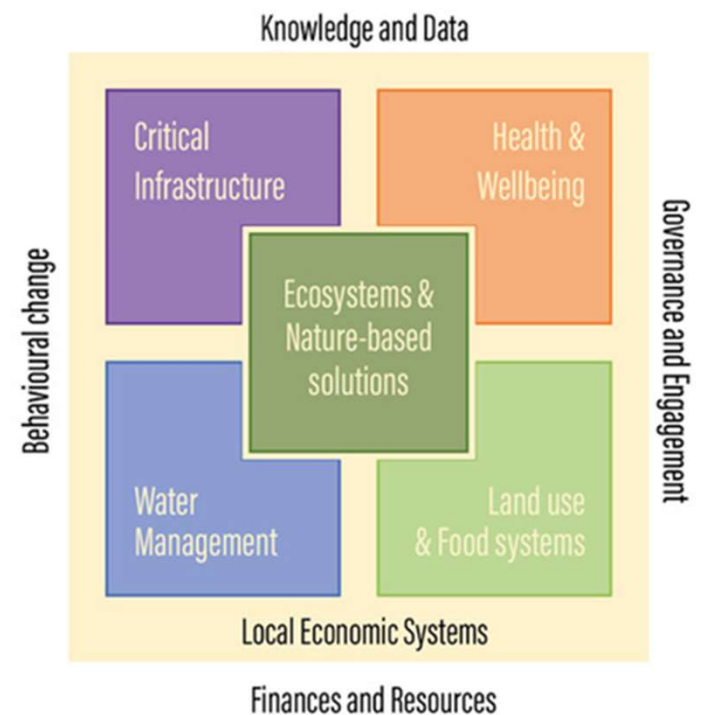
15 million EUR (1 projects – 15 million EUR):

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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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



HORIZON-MISS-2023-CLIMA-01-01: Testing and demonstrating transformative solutions increasing climate resilience of the agriculture and/or forestry sector:

Budget: total 30 million EUR – 3 projects – 8-10 million EUR / project

Scope: The proposed solution should address at least some of the following aspects:

- 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: (Continued)

- 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 solutions:

Budget: total 35 million EUR – 3 projects – 8-11 million EUR / project

Scope: The proposed solution should address:

- **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: (Continued)

- It should 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.
- It links with the topic 2021-CLIMA-02-03 on modeling at the asset level.
- It should include lifecycle ecological and CO2 footprint considerations, from sourcing the materials, including water and energy needed.
- It should 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

Budget: total 18 million EUR – 3 projects – 4.5-6 million EUR / project

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**.



Scope:

1. Improve prevention and policy-making, by:

- 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 decision-making 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.



Scope:

2. Improve preparedness of health systems by:

- **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.



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Joint calls with other Missions



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HORIZON-MISS-2023-CLIMA-CITIES-01-01: Urban greening and re-naturing for urban regeneration, resilience and climate neutrality

Budget: total 40 million EUR – 3/4 projects – 10-12 million EUR / project

Expected outcome

- Regenerated, liveable, climate-proofed, resilient, functional and environmentally, socially and economically upgraded built environment;
- Compared to baselines at the start of the project:
 - Increase by at **least 25%** the share of **newly created and/or restored public green spaces** over the total targeted under regeneration area;
 - Increase by at least **20% citizens satisfaction**;



HORIZON-MISS-2023-CLIMA-CITIES-01-01: Urban greening and re-naturing for urban regeneration, resilience and climate neutrality

Specific conditions: Each action must include pilot demonstrations in at least four ‘**lead**’, accompanied by at least four ‘**replicator**’ cities situated each in different MS or AC (***eligibility criterion***); establish collaboration (MoU) with **Mission Platforms** for both the Cities and Climate Adaptation missions.

Possible targeted areas: large scale social housing districts, deprived districts and neighbourhoods, rehabilitating neglected, abandoned areas and brownfields and re-purposing derelict industrial sites and dysfunctional urban places.

Cost eligibility

Costs for **major infrastructure works** related to the **deployment/instalment** of the greening and re-naturing **solutions** shall **not** constitute **more than 20% of the total eligible costs**.



HORIZON-MISS-2023-CLIMA-CITIES-01-01: Urban greening and re-naturing for urban regeneration, resilience and climate neutrality

Scope: In each action:

- Set up **collaborative platforms** engaging relevant urban and regional authorities, actors, citizens and stakeholders for **co-creation** of urban **regeneration plans** deploying **greening** and **re-naturing approaches** and, by doing so, fostering in tandem **climate mitigation** and **adaptation**;
- Ensure **continuous** and **seamless** involvement of **competent regional** authorities in the co-creation process for **cross-scalar** (city/region) **compatibility** and **coherence** of the urban/regional **climate mitigation and adaptation** plans.
- ‘Lead’ cities **must** foresee **actual implementation** of the co-created interventions **during the life of the project** with activities and associated costs described in **dedicated Work Package or task**



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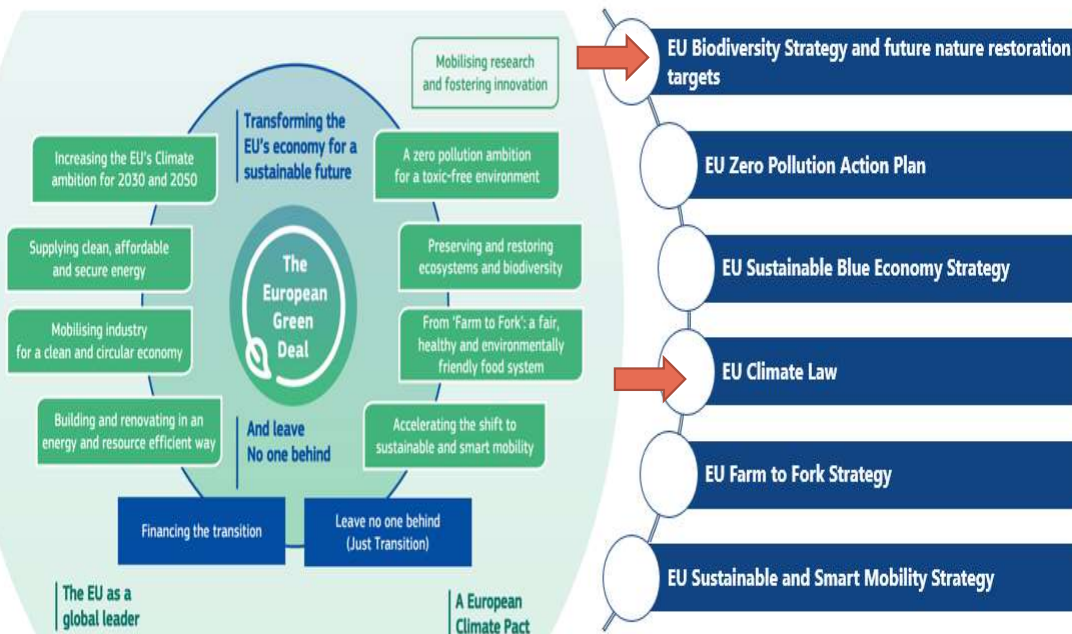
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HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01: Joint demonstration of an integrated approach to increasing water retention capacity at regional scale

POLICY CONTEXT



KEY EXPECTED OUTCOMES

- ✓ Increased resilience to climate change impacts on soils, waters, habitats and biodiversity
- ✓ Increased landscape/soil water retention capacity
- ✓ Enhanced mobilization of relevant actors (e.g.: local/regional authorities, planning bodies, farmers, foresters, land owners, economic operators, citizens)
- ✓ Enhanced implementation of EU legislation/policies: EGD, Adaptation Strategy, Biodiversity Strategy, Water Framework and Groundwater Directives, Soil Strategy



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HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01: **(Continued)**

SCOPE

- Full scale-demonstration of socio-ecological approaches and NBSs to increase the landscape and soil water retention capacity, resilience to climate change, surface and ground water quality, soil health and biodiversity protection/conservation
- Multi-actor approach for demonstration activities at the level of socio-ecological territorial units covering different living/non-living systems (e.g.: soil, waters, vegetation/biota, human communities)
- Planning, implementation and management of effective measures with the involvement of relevant authorities, stakeholder and local communities

INDICATIVE BUDGET

Total: EUR 15 million

Per project contribution: EUR 15 million

IMPORTANT

- **Additional eligibility conditions:**
 - Demo activities in min. 3 MS/ACs
 - Multi-actor approach
 - Use of Copernicus/Galileo/EGNOS
- **Third party cascaded grants: 5 Associated regions**
- **Dissemination of best practices to end-users as well as action plan for replication/scalability**
- **FAIR approach to data to be made available via EMODNet**



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Important websites

Mission 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

National Contact Points (NCPs)

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/ncp>

EU Missions info days

<https://research-innovation-community.ec.europa.eu/events/1nVczf9ihgPdOg3zyoLyuC/overview>

Funding & Tender Portal

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/programmes/horizon>



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Thank you!

[Adaptation to climate change \(europa.eu\)](https://europa.eu)

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