

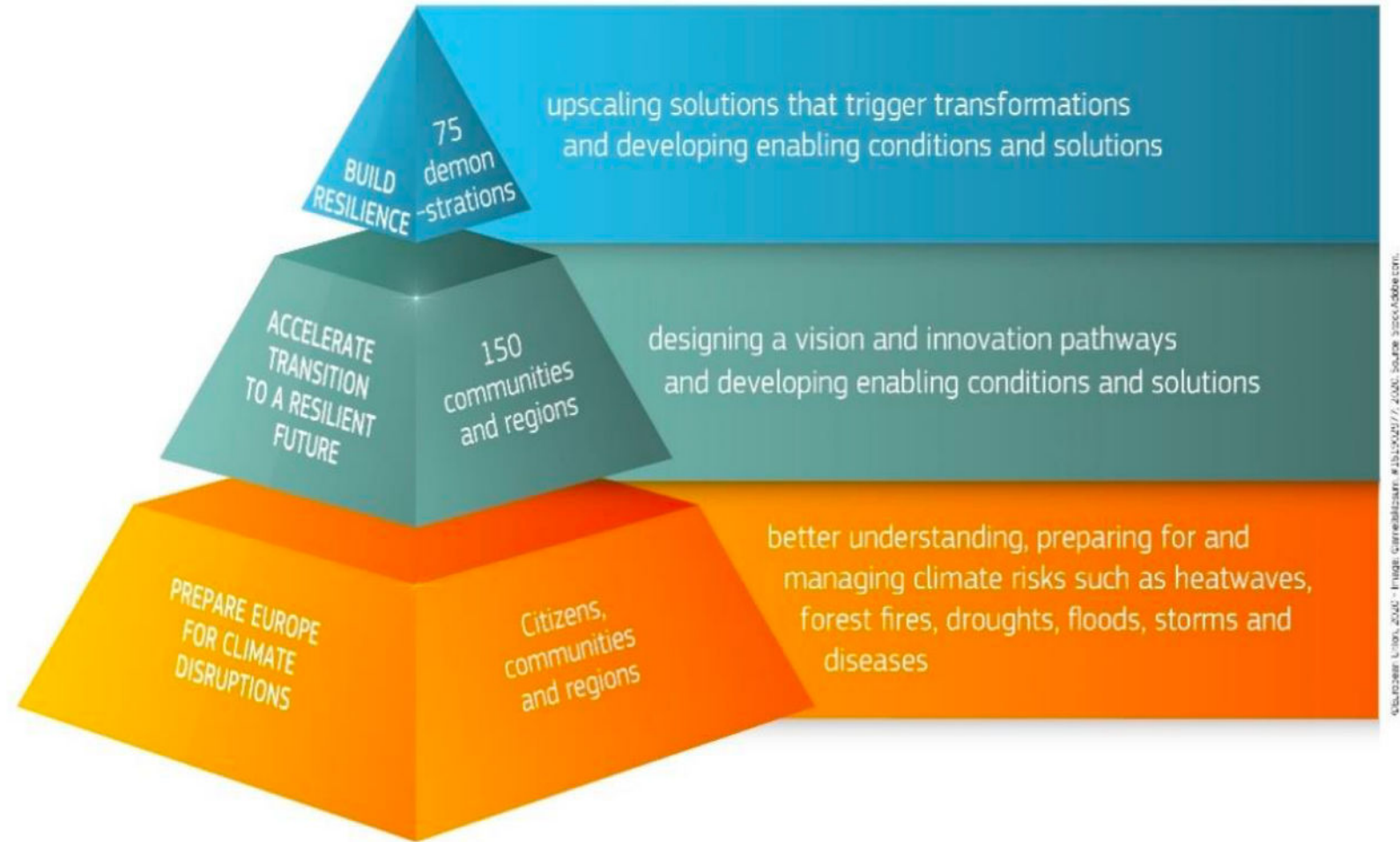
Mission Adaptation to Climate Change

- **support at least 150 European regions, local authorities and communities to become climate resilient by 2030**
- The **Mission Adaptation to Climate Change**, will enable Europe to prepare for unavoidable climate impacts and accelerate the transformation to a climate-resilient Europe.
- the Mission has set out **concrete objectives and deliver tangible solutions, mainstreaming nature-based approaches, to Europeans.** The work supported by the Mission will also be of particular relevance to the forthcoming **Nature Restoration Law**, that will set targets to restore degraded ecosystems.
- ** Mission will continue to help deliver key EU policy priorities such as the European Green Deal*

Mission Adaptation to Climate Change

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

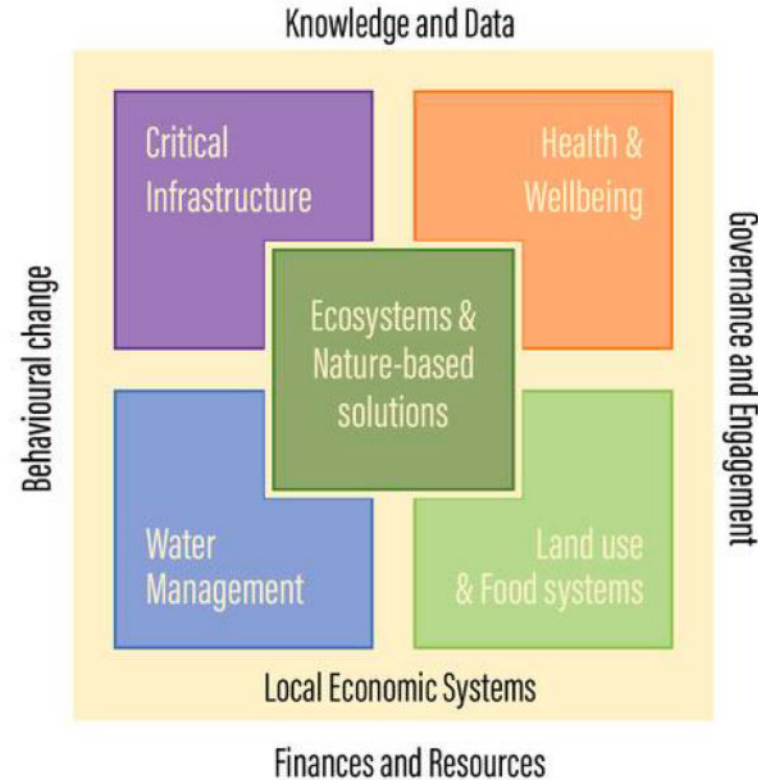
Objectives



- for 2023, **the Mission will focus on supporting regions**, local authorities and communities in demonstrating at real scale and in real life climate **resilience solutions** capable to *address one or more of the systems locally identified as key for climate resilience* building and as the *most vulnerable* to effects of climate change

- In 2023, the Mission will support the development and testing of solutions addressing one or more of the systems identified in the Mission Implementation Plan as key for climate resilience building.

Key community systems



Key community system- A system that meets important basic societal needs but that is increasingly impacted by climate change.

A key community system is an area of innovation and transformation for the Mission, part of a larger interdependent system

Mission: Adaptation to Climate Change

Call 2023 - Demonstration of climate resilience solutions in support of the implementation of the Adaptation to Climate Change Mission

Innovation Actions

- HORIZON-MISS-2023-CLIMA-01-01: Testing and demonstrating transformative solutions increasing climate resilience of the agriculture and/or forestry sector.
- HORIZON-MISS-2023-CLIMA-01-02: Testing and demonstrating transformative solutions to protect critical infrastructure from climate change, mainstreaming nature based solutions.
- HORIZON-MISS-2023-CLIMA-01-03: Testing and demonstrating transformative solutions to build resilience towards health risks caused by the effects of climate change

- MISSION contain actions in synergy and coordination with other missions, parts of Horizon Europe, in particular with European Partnerships and Clusters, and including also bottom-up parts such as the Marie Skłodowska-Curie Actions, the European Institute of Innovation and Technology or the European Research Council, as well as with other EU funding instruments and policies.
- Need to be implemented in close synergy with funding, programmes and strategies both at Member State / Associated Country and regional levels, as well as with civil society and the private sector.
- Wide engagement across the EU and Associated Countries and beyond, including citizens, in particular young people.

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Indicative number of projects expected to be funded
Opening: 10 Jan 2023 Deadline(s): 20 Sep 2023				
HORIZON-MISS-2023-CLIMA-01-01	IA	30.00	8.00 to 10.00	3
HORIZON-MISS-2023-CLIMA-01-02	IA	34.81	8.00 to 11.00	3
HORIZON-MISS-2023-CLIMA-01-03	IA	18.00	4.50 to 6.00	3
Overall indicative budget		82.81		

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

Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of between EUR 8.00 and 10.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 30.00 million.
Type of Action	Innovation Actions
Eligibility conditions	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>The conditions are described in General Annex B.</p> <p>In addition to the standard eligibility conditions, proposals must include demonstration activities to be carried out in 4 different regions/local authorities/ communities located in 3 different Member States /Associated Countries, involving and including in the consortium partners from these three countries.</p>
Technology Readiness Level	Activities are expected to achieve TRL 6 to 8 by the end of the project – see General Annex B
Procedure	<p>The procedure is described in General Annex F. The following exceptions apply:</p> <p>Seals of Excellence will be awarded to applications exceeding all of the evaluation thresholds set out in this work programme, but cannot be funded due to lack of budget available to the call.</p>
Evaluation and award procedure	<p>Proposals that attain thresholds for each evaluation criteria will be ranked based on overall score. Following the overall ranking, the highest ranked proposals for each biogeographical area will be selected first, and until budget allows. Should budget be sufficient, eventually the second ranked proposals for each biogeographical area will be selected following the overall ranking and so forth, until budget is available.</p> <p>The biogeographical area focus of each proposal should be specified in the free keywords section of the proposal.</p>

HORIZON-MISS-2023-CLIMA-01-02: Testing and demonstrating transformative solutions to protect critical infrastructure from climate change, mainstreaming nature based solution

Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of between EUR 8.00 and 11.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 34.81 million.
Type of Action	Innovation Actions
Eligibility conditions	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>The conditions are described in General Annex B.</p> <p>In addition to the standard eligibility conditions, proposals must include demonstration activities to be carried out in 4 different regions/local authorities/ communities located in 3 different Member States /Associated Countries, involving and including in the consortium partners from these three countries.</p> <p>If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).</p>
Technology Readiness Level	Activities are expected to achieve TRL 6 to 8 by the end of the project – see General Annex B
Procedure	<p>The procedure is described in General Annex F. The following exceptions apply:</p> <p>Seals of Excellence will be awarded to applications exceeding all of the evaluation thresholds set out in this work programme, but cannot be funded due to lack of budget available to the call.</p>
Legal and financial set-up of the Grant Agreements	<p>The rules are described in General Annex G. The following exceptions apply:</p> <p>In grants awarded under this topic, costs for infrastructure construction or renovation works shall not constitute more than 20% of the total eligible costs. Beneficiaries' own resources and/or mobilisation and leverage of additional investments from national and other EU programs and initiatives (such as EU Structural and Investment Funds) and/or other sources, private or public, should make up the remaining investment costs to secure the economic and financial sustainability of the project.</p>
Evaluation and award procedure	<p>Proposals that attain thresholds for each evaluation criteria will be ranked based on overall score. Following the overall ranking, the highest ranked proposals for each biogeographical area will be selected first, and until budget allows. Should budget be sufficient, eventually the second ranked proposals for each biogeographical area will be selected following the overall ranking and so forth, until budget is available.</p> <p>The biogeographical area focus of each proposal should be specified in the free keywords section of the proposal</p>

HORIZON-MISS-2023-CLIMA-01-03: Testing and demonstrating transformative solutions to build resilience **towards health risks caused** by the effects of climate change

Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of between EUR 4.50 and 6.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 18.00 million .
Type of Action	Innovation Actions
Eligibility conditions	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>The conditions are described in General Annex B.</p> <p>In addition to the standard eligibility conditions, proposals must include demonstration activities to be carried out in 4 different regions/local authorities/ communities located in 3 different Member States /Associated Countries, involving and including in the consortium partners from these three countries.</p> <p>If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).</p>
Technology Readiness Level	Activities are expected to achieve TRL 6 to 7 by the end of the project – see General Annex B
Procedure	<p>The procedure is described in General Annex F. The following exceptions apply:</p> <p>Seals of Excellence will be awarded to applications exceeding all of the evaluation thresholds set out in this work programme, but cannot be funded due to lack of budget available to the call.</p>
Evaluation and award procedure	<p>Proposals that attain thresholds for each evaluation criteria will be ranked based on overall score. Following the overall ranking, the highest ranked proposals for each biogeographical area will be selected first, and until budget allows. Should budget be sufficient, eventually the second ranked proposals for each biogeographical area will be selected following the overall ranking and so forth, until budget is available.</p> <p>The biogeographical area focus of each proposal should be specified in the free keywords section of the proposal.</p>

Joint calls

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

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

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Indicative number of projects expected to be funded
		2023		
Opening: 10 Jan 2023 Deadline(s): 27 Apr 2023				
HORIZON-MISS-2023-CLIMA-CITIES-01-01	IA	40.00	10.00 to 12.00	4
Overall indicative budget		40.00		

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

Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of between EUR 10.00 and 12.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 40.00 million.
Type of Action	Innovation Actions
Eligibility conditions	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.</p> <p>The following additional eligibility criteria apply:</p> <p>Each action must include pilot demonstrations in at least four cities situated each in different Member States or Associated Countries to demonstrate how urban planning and design can be optimally deployed to develop and implement greening and re-naturing solutions for regeneration, repurposing and rehabilitation purposes whilst enhancing their overall urban climate neutrality and resilience.</p> <p>If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).</p>
Legal and financial set-up of the Grant Agreements	<p>The rules are described in General Annex G. The following exceptions apply:</p> <p>Grants awarded under this topic will be linked to the following action(s):</p> <p>HORIZON-MISS-2021-CIT-02-03</p> <p>Collaboration with the Cities Mission Platform and the soon to be established Climate adaptation Mission Platform is essential, and projects must ensure that appropriate provisions for activities and resources aimed at enforcing this collaboration are included in the work plan of the proposal. The collaboration with these Mission Platforms must be formalized through a Memorandum of Understanding to be concluded as soon as possible after the projects' starting date.</p> <p>In grants awarded under this topic, eligible costs for major infrastructure works related to the deployment/instalment of the greening and re-naturing solutions must not constitute more than 20% of the total eligible costs. Beneficiaries' own resources and/or mobilisation and leverage of additional investments from other EU programs and initiatives (such as EU Structural and Investment Funds) and/or other sources, private or public, must make up the remaining investment costs to ensure the economic and financial sustainability of the project.</p>

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

- This call is implemented jointly by Mission ‘Adaptation to Climate Change’, Mission ‘Soil Deal for Europe’ and Mission ‘Restore our ocean and waters by 2030’ to ensure integrated approaches and explore synergies between these
- Call - **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

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million)	Indicative number of projects expected to be funded
		2023		
Opening: 17 Jan 2023				
Deadline(s): 20 Sep 2023				
HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01	IA	15.00	Around 15.00	1
Overall indicative budget		15.00		

HORIZON-MISS-2023-CLIMA-OCEAN-SOIL-01-01: 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

Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of around EUR 15.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 15.00 million.
Type of Action	Innovation Actions
Eligibility conditions	<p>The conditions are described in General Annex B. The following exceptions apply:</p> <p>In addition to the standard eligibility conditions, the consortium must carry out demonstration activities in 3 different Member States or Associated Countries, involving and including in the consortium partners from these respective countries.</p> <p>The following additional eligibility criteria apply:</p> <p>The proposals must use the multi-actor approach. See definition of the multi-actor approach in the introduction to this Work Programme part.</p> <p>If projects use satellite-based earth observation, positioning, navigation and/or related timing data and services, beneficiaries must make use of Copernicus and/or Galileo/EGNOS (other data and services may additionally be used).</p>
Technology Readiness Level	Activities are expected to achieve TRL 6-7 by the end of the project – see General Annex B.
Legal and financial set-up of the Grant Agreements	<p>The rules are described in General Annex G. The following exceptions apply:</p> <p>Beneficiaries will be subject to the following additional obligations regarding open science practices. If projects collect in-situ data and marine observations, beneficiaries must make them openly available through the European Marine Observation and Data network (EMODnet), based on FAIR (findable, accessible, interoperable, reusable) principles.</p> <p>Beneficiaries may provide financial support to third parties. The support to third parties can only be provided in the form of grants. The financial support to third parties may only be awarded to local and/or regional authorities from an 'associated region'. The maximum amount to be granted to each 'associated region' is EUR 100,000, to showcase the feasibility, replicability and scalability of the solutions developed within the project in the 'associated region'. Each 'associated region' may benefit from the Financial Support to Third Parties provided under this topic within the duration of the project only once.</p>

JOINT CALL 1- tema 1

- Regenerated, rehabilitated in particular areas such as large estate social housing districts, deprived districts and neighbourhoods, neglected or abandoned areas, derelict industrial sites, brownfields or other dysfunctional urban sites through greening and re-naturing interventions;

Such as green and blue infrastructures, nature-based solutions, green roofs and corridors, restoring degraded urban ecosystems and/or ecosystem-based approaches.

- Improved liveability, functionality, quality of life and social cohesiveness of the urban areas by means of greener, renatured, regenerated, more bio-diverse, safer, mixed/multi-use and shared urban (public) spaces
- Increasing the share of newly created and/or restored public green spaces, (such as green/blue infrastructures, parks, gardens, forests, green corridors)
- Scope: Cities are at the forefront of tackling climate change and pollution and managing impacts through mitigation and adaptation measures
- The objective of this topic is to **explore and demonstrate how to operationalize collaborative climate mitigation and adaptation urban planning approaches deploying “greening” and renaturing solutions** for regeneration, re-purposing, rehabilitation and pollution abatement purposes. The co-created plans should be in line with the guiding principles of the European Green Deal and the New European Bauhaus initiative.
- Set-up in each participating city **collaborative platforms (such as living lab)**
- Ensure that the regional dimension concerning climate adaptation is properly accounted for through the continuous and seamless involvement of competent regional authorities

- Theme 2 Joint call **Mission Climate adaptation, Mission Ocean & waters and Mission Soil Deal for Europe –**
- Demonstrated effective and inclusive integrated approaches to the management of landscape, soil, water and vegetation at a regional level, to increase the resilience to climate change impacts on soils, waters, habitats and biodiversity;
- Better information and greater mobilisation of all relevant actors, including citizens, local and regional authorities and planning bodies, farmers, ect...
- Scope: This joint topic relates to the Adaptation to Climate Change Mission's third objective, aiming to support at least 75 full-scale deep demonstrations of climate resilience, to the Mission Ocean & Waters' objective
- **Projects should demonstrate socio-ecological approaches and nature-based solutions to increase landscape and soil water retention capacity, leading to improvement of quality and quantity of ground and surface waters in the area where they are deployed, and boosting resilience to climate change impacts.** A combination of nature-based measures with hybrid solutions and relevant Blue-Green engineering may be considered, provided these combined solutions are sustainable and provide adequate social and environmental safeguards.

fine

- Regions and communities transformed into tangible projects their roadmaps
- Regions and communities have taken **the leadership and have been involved in development and testing**
- contribute to the implementation at the local level of the Common Agriculture Policy and the related National Strategic Plans
- Developed solutions are close to nature, are at least neutral or support biodiversity, improve or at least do not harm water quality etc...
- the agriculture and/or forestry business models more resilient to long term effects of climate change
- Red Agriculture and food water nexus better prepare to cope CC
- Reducing potential economic, social and environmental losses caused by extreme weather events
- Climate resilient solution for small farms
- **Topic relates to mission obj of mobilizing 150 regions and to deliver 75 deep demonstrations of systemic transf. to climate resilience**
- **The proposal should develop and test at least one innovative solution**
- **The proposal should address some of the followings:**
 - Improving resilience of the agriculture and /or forestry sector
 - Exploiting agro-ecology as an approach to enhance the climate resilience of the farming system,
 - Exploring integration of available smart farming approaches (and improvements of the same based on updated data) and the use of technologies such as the AI, remote sensing and the Internet of Things (IoT)
 - More natural ecosystems
 - increase awareness of the **value of maintaining and restoring existing natural systems**
- specific needs identified **at regional and local scale : multi-risks** locally identified-→ implement systemic solution; proposal must include **4 demonstrations** in different regions/community ecc..located in 3 different EU States
- **-the best ranked proposal for each biogeographical area will be selected (Alpine, continental , ecc.)**

EXPECTED OUTCOME 2

- Regions, local authorities and communities have taken the leadership and have been involved in identifying weaknesses and interlinkages
- NBS protecting infrastructure from adverse effects of CC
- Reducing Potential economic and social losses caused by extreme weather events and interruption of service
- Business , public and private more prepare to cope CC
- Prevention and management of emergency events improved with integration of digital monitoring , data eccc

SCOPE 2

- The topic is related to the obj to mobilize 150 Regions in testing solution and to deliver 75 demonstrators of systemic transformations to climate resilience
- Complement Climate adaptation topin 2021- CLIMA 02 03on modelling
- **Built systematic climate resilience:** For example, the acceleration of deployment of renewable energy is not without consequences on other environmental and geopolitical challenges. The interdependency of water and energy is set to intensify in the coming years, with significant implications for both energy and water security. Coal and gas power plants require a lot of water, but also renewable sources could increase water stress or be challenged by it, either during operation or during the construction stage.

• PROPOSED SOLUTION SHOULD ADDRESS 2

- **Protecting critical infrastructure** from climate impacts
- Solutions for new infrastructures
- Inclusion of digital and space solutions and services to better predict, monitor and report on climate events, in particular towards improved forecasts of adverse events
- **At least 4 demonstrators and 4 different regions from 3 States**
- Potential reapplication to other regions: inclusion of at least 3 replicating regions eccc... is strogly encouraged

- **the best ranked proposal for each biogeographical area will be selected (Alpine, continental , ecc.)**

EXPECTED OUTCOME 3

- Regions, local authorities and communities have taken the leadership and have been involved in identifying weaknesses and interlinkages to mitigate effect of CC on health and human wellbeing
- climate resilience solutions that protect human health have been developed, tested and are made largely available

SCOPE 3

- The topic is related to the objective to mobilize 150 Regions in testing solution and to deliver 75 demonstrators of systemic transformations to climate resilience
- Proposal should test solutions that address both the two aspects below

1. . Improve prevention and policy-making, by:

- **Improved insights into short- and long-term health effects of climate-related stressors**, including **planetary health** considerations . Taking into consideration differences between infectious and non-communicable diseases, and the particularities of each.
- **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
- Development and **health impact assessment of adaptation measures**

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; Preparing training curricula on health and climate change; Development of innovative, fit-for-purpose, end-user driven early warning ; public public awareness campaigns
- **the best ranked proposal for each biogeographical area will be selected (Alpine, continental , ecc.)**