

As Missões do Horizonte Europa

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Five EU Missions

Adaptation to
Climate Change



Cancer



Climate-neutral
and Smart Cities



Restore our
Ocean and Waters

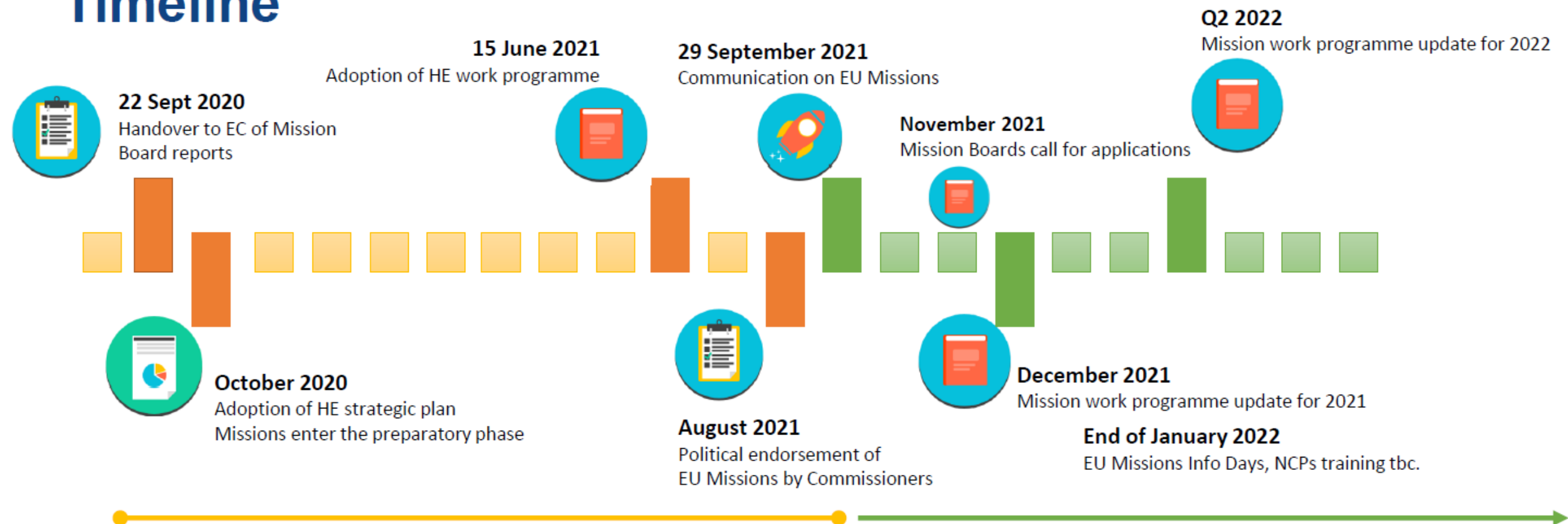


Soil Deal
for Europe

The EU Missions



Timeline



Missions' preparatory phase:

Preparation of solid implementation plans
Preparatory actions in the WP to lay foundation for missions' implementation

Missions' implementation phase:

Two Missions work programme amendments (Q4 2021, Q2 2022) to start missions implementation on the ground.

Communication on European Missions

- On 29 September the Commission adopted a **Communication on EU Missions** that officially launched missions into their implementation phase
- The **implementation plans** set the grounds to make missions a reality
- EU Missions have ambitious goals and will deliver concrete **results by 2030**



EU MISSIONS

Innovative way of
working together

Rooted in R&I

Support EU priorities:
Green Deal, Beating
Cancer Plan, NEB,
etc.

For Researchers,
Innovators,
Businesses, Policy-
makers and Citizens

Bold, inspirational
and widely relevant
to society

Targeted, measurable
and time-bound

Establish impact-
driven but realistic
goals

Mobilise resources
on EU, national and
local levels

Link activities across
disciplines and types
of R&I

Working with Member States

- Strong support for missions already signaled – now needs channeling
- Missions' success depends on a combined approach
 - compelling vision would be for aligning priorities and policies; joining resources; linking programmes; parallel actions
 - need also to maintain flexibility and retain separate domains of control – no one size fits all and limits to top-down mechanisms
 - could expect to see specialization by countries and clusters of countries

What is needed for working with Member States?

- Information and awareness together with strategic intelligence will lay the foundations
- Priorities should be developed jointly, drawing on common understanding
- Connecting policy and implementation across multiple areas
- Implementation requires commitment of adequate resources
- Citizens support at the level of implementation and monitoring is key to the design
- Delivering results at the local level is core to the missions' values

What's in it for Research and Industry?



Adaptation to Climate Change



Improving the performance of nature based solution and develop protocols for their implementation



Increasing and facilitating uptake of nature based solutions through the use of public procurement. Pre-Commercial Procurements and Public Procurement of Innovation



Cancer



Understand healthy versus cancer cells at individual and population level



Develop non-invasive cancer screening and detection methodologies



Restore our Ocean and Waters



Increase our knowledge of our oceans and water life, including DNA sequencing to unravel microbiomes of marine and coastal ecosystems



Innovative, affordable and scalable technologies for remote and accurate monitoring of fishing activities

What's in it for Research and Industry?



100 Climate Neutral and Smart Cities



Developing new urban planning and design practices to enable transition to sustainability, resilient, climate neutral and human centred solutions



Large scale pilots acting as demonstrators for deployment of R&I and off the shelf solutions in lead European cities and districts



Soil Deal for Europe



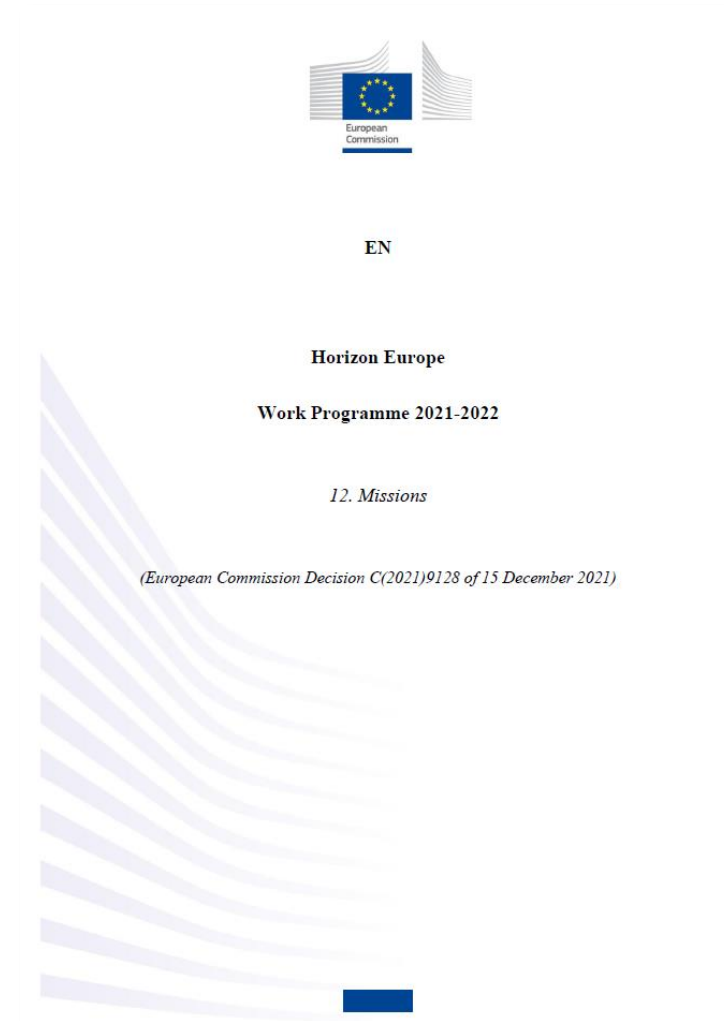
The soil functional (micro)biome and its potential to deliver improved soil health and associated ecosystem services



100 living labs: user-centered, placed-based transdisciplinary research ecosystems to co-design, test, monitor and evaluate solutions in real-life settings, to improve their effectiveness for soil health and accelerate adoption

Mission's Work Programme

- Contains actions for each of the five missions
- Preparatory phase (2021) establish foundations for the missions
- Implementation phase (2022): R&I actions





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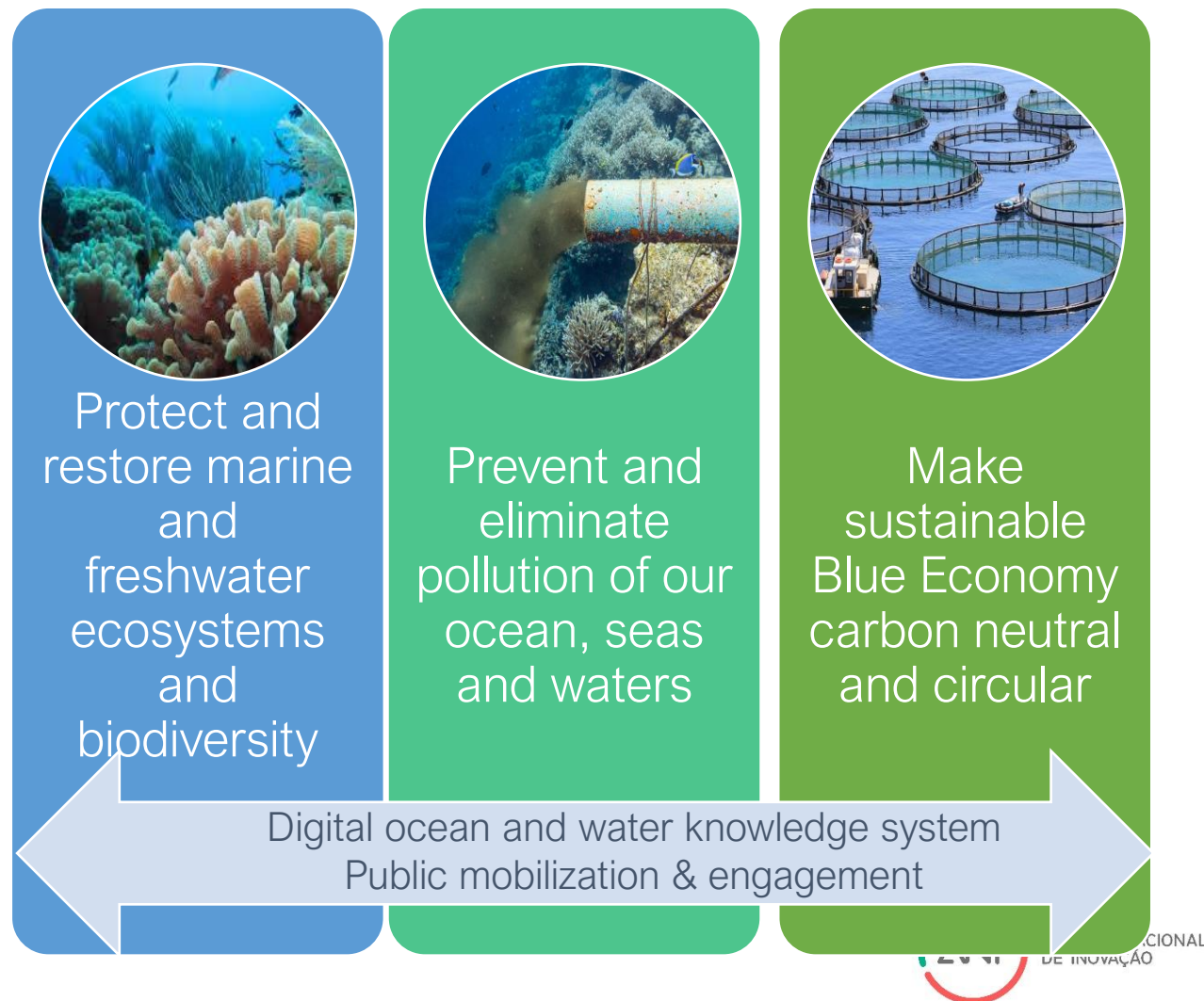
EU MISSIONS

RESTORE OUR OCEAN AND WATERS

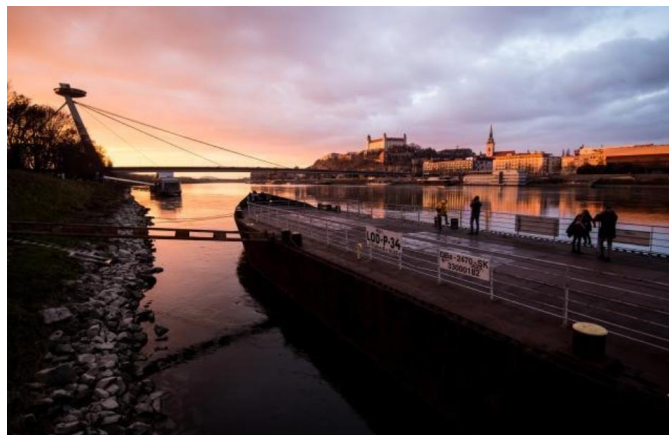


Mission Restore our ocean, seas and waters by 2030

- European Green Deal objectives need a healthy ocean and waters
- Focus on «lighthouses»: hubs and platforms for the development and deployment of transformative innovations (technological, social, business, governance)



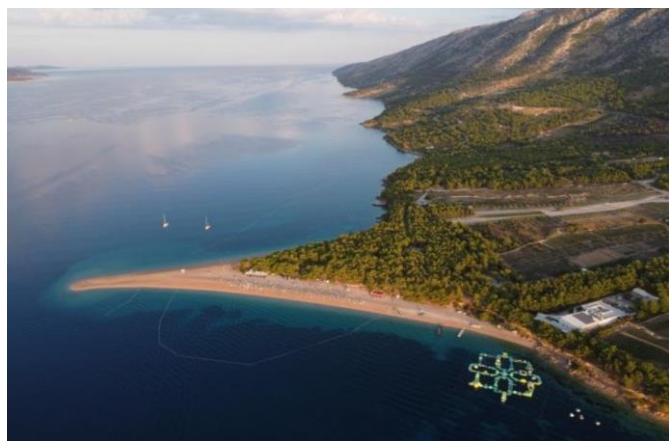
Danube river basin



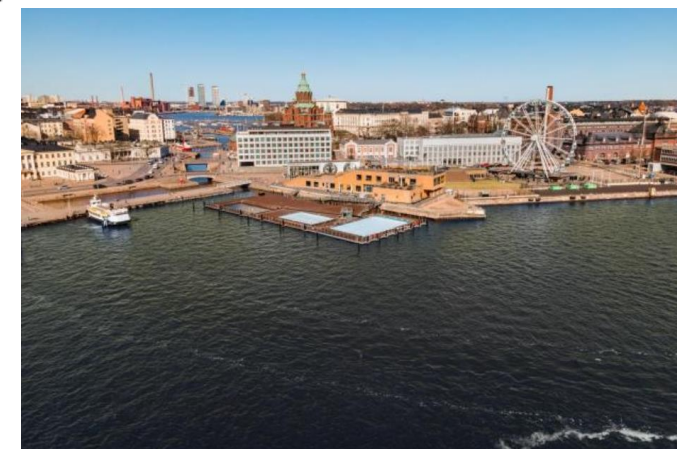
Atlantic & Arctic basin



Mediterranean sea basin



North and Baltic sea basin



Referência tópico	Título	Tipo de ação	TRL	M€ por projeto	Nº projetos por tópico	Deadline
<u>Call – Protect and restore marine and freshwater ecosystems and biodiversity</u>						
HORIZON-MISS-2021-OCEAN-02-01	European Blue Parks	IA	5-7	8,5	2	12-04-2022
HORIZON-MISS-2021-OCEAN-02-02	Danube river basin lighthouse – restoration of fresh and transitional water ecosystems	IA	5-7	8,5	2	
HORIZON-MISS-2021-OCEAN-02-03	Atlantic and Arctic basin lighthouse - restoration of marine and coastal ecosystems and increased climate resilience	IA	5-7	8,5	2	
HORIZON-MISS-2021-OCEAN-02-04	Danube river basin lighthouse – coordination activities	CSA		3	1	
HORIZON-MISS-2021-OCEAN-02-05	Atlantic and Arctic basins lighthouse – coordination activities	CSA		3	1	
<u>Call - Prevent and eliminate pollution of our ocean, seas and waters</u>						
HORIZON-MISS-2021-OCEAN-03-01	Mediterranean Sea basin lighthouse - actions to prevent, minimise and remediate litter and plastic pollution	IA	5-7	8	2	12-04-2022
HORIZON-MISS-2021-OCEAN-03-02	Mediterranean Sea basin lighthouse – coordination activities	CSA		3	1	
<u>Call - Sustainable, carbon-neutral and circular Blue economy</u>						
HORIZON-MISS-2021-OCEAN-04-01	Lighthouse in the Baltic and the North Sea basins - Low impact marine aquaculture and multi-purpose use of marine space	IA	5-7	8	2	12-04-2022
HORIZON-MISS-2021-OCEAN-04-02	Baltic and North Sea basin lighthouse – coordination activities	CSA		3	1	
<u>Call - Mission Enabling activities: Digital knowledge system, public mobilisation and engagement, dynamic investment ecosystem</u>						
HORIZON-MISS-2021-OCEAN-05-01	Underlying models for the European Digital Twin Ocean	IA	6-8	7	1	12-04-2022
HORIZON-MISS-2021-OCEAN-05-02	The relation of young generations with the sea and water: values, expectations, and engagement	RIA		1	1	
HORIZON-MISS-2021-OCEAN-05-03	Piloting citizen science in marine and freshwater domains	CSA		1	1	



National Contact Points

Mission Restore our oceans, seas and waters



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EU MISSIONS

SOIL DEAL FOR EUROPE



Video: <https://www.youtube.com/watch?v=53bbzE2lpKc>

Mission 'Soil Deal for Europe'

Life on Earth depend on healthy soils, but they are under threat all over the world.

In Europe, 60%-70% of soils are unhealthy, making us more vulnerable to food insecurity and extreme weather events.

The mission will engage with people and create effective partnerships across sectors and territories to protect and restore soils in Europe and beyond.

It will contribute to Green Deal targets relating to sustainable farming, climate resilience, biodiversity and zero pollution.



The soil mission will put communities and stakeholders at the centre of the innovation process.

It will pioneer the large-scale deployment of **100 Living Labs and Lighthouses** where people from all walks of life and businesses can co-create knowledge and solutions in real-life conditions and demonstrate their value.



Goal: 100 Living labs and lighthouses to lead the transition towards healthy soils by 2030

Specific objectives

1. Reduce desertification

2. Conserve soil organic carbon stocks

3. Stop soil sealing and increase re-use of urban soils

4. Reduce soil pollution and enhance restoration



5. Prevent erosion

6. Improve soil structure to enhance soil biodiversity

7. Reduce the EU global footprint soils

8. Improve soil literacy in society

Each specific objective is backed by **one or more quantified targets** and **measurable indicators**. Objectives apply to **all types of land use**.



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MISSIONS

How will the mission be implemented?

Communication material, training curricula for different target groups and specialised “soil advisors”

4. Soil literacy, communication citizen engagement

1. R&I programme

Data infrastructures and platforms; knowledge to support management practices, business models, technologies

Who will act?

Co-implementation of mission by: researchers, land managers, regions, businesses, policy makers, citizens and international partners

Harmonisation of indicators, measuring and reporting for soil health across Europe; contribution to European Soil Observatory

3. Soil monitoring

2. Living labs and lighthouses

A network of real-life sites for testing, demonstrating and upscaling of solutions; due attention to balanced representation across regions



Activities under the four building blocks to address soil health and drivers of soil health

[Implementation Plan](#)

Mission ‘Soil Deal for Europe’ | 1st Work Programme

8 tópicos | 62 M€ | Deadline: 24/03/2022

R&I Programme

SOIL-02-01: From knowledge gaps to roadmaps on soil mission objectives	CSA, 1 project
SOIL-02-03: Linking soil health to nutritional and safe food	RIA, 1 project
SOIL-02-04: Social, economic, cultural factors driving land management and land degradation	RIA, 2 projects
SOIL-02-05: Incentives and business models for soil health	RIA, 2 projects

Living labs and lighthouses

SOIL-02-07: National engagement sessions and support to the establishment of soil health living labs	CSA, 1 project
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Soil monitoring

SOIL-02-02: Validating and further developing indicators for soil health and functions	RIA, 1 project
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Soil literacy, communication and citizen engagement

SOIL-02-06: Engage with and activate municipalities and regions to protect and restore soil health	CSA, 3 projects
SOIL-02-08: Next generation soil advisors	RIA, 1 project




National Contact Points Mission Soil Deal for Europe



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EU MISSIONS

ADAPTATION TO CLIMATE CHANGE



What is the mission about?

The mission focuses on solutions and preparedness for the impact of climate change to protect lives and assets. It includes behavioural changes and social aspects by addressing new communities beyond usual stakeholders, which help lead to a societal transformation.

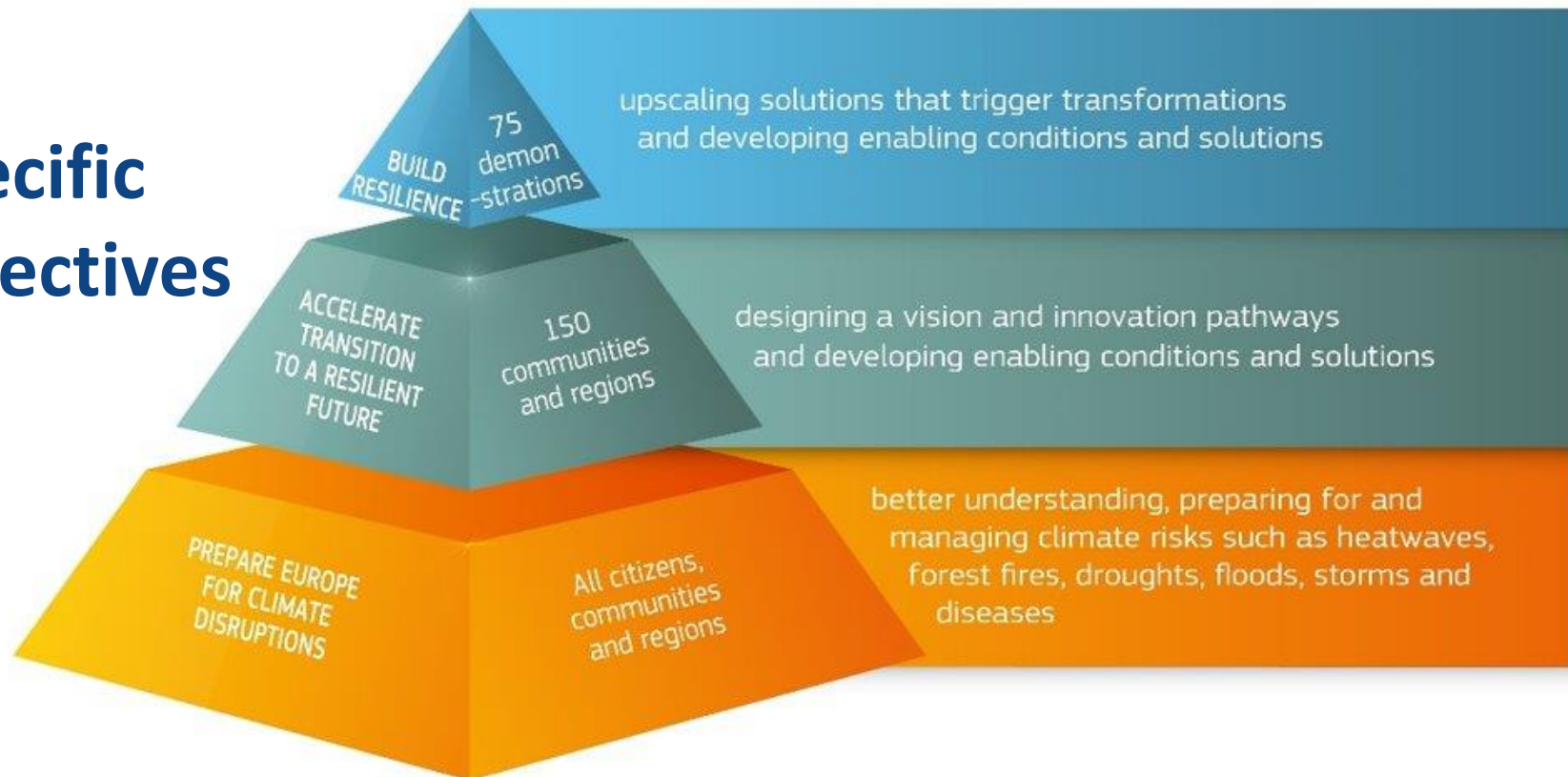
Video: <https://youtu.be/KlvjfPgwDKg>



Overall objective

- To support **at least 150 European regions** and communities to become **climate resilient by 2030** (will start with 60-100 regions between 2021-23)

Specific objectives





Funding from Horizon Europe

Topics Climate Change Adaptation 2022

	Development of climate change risk assessments in European regions and communities based on a transparent and harmonised Climate Risk Assessment approach: 15-20 M€ per project (1 project) - RIA
	Support to the regions in developing pathways towards climate resilience and corresponding innovation agendas: 25-30 M€ per project (1 project) - RIA
	Towards asset level modelling of climate risks and adaptation: 1.5-2.5 M€ per project (2 projects) - RIA
	Large scale demonstrators of climate resilience creating cross-border value: 15-25 M€ per project (2 projects) - IA
	Local engagement of citizens in the co-creation of societal transformational change for climate resilience: 3-5 M€ per project (1 project) - RIA
	Opening: 11 Jan 2022 Deadline: 12 Apr 2022



National Contact Points Mission Climate Change Adaptation




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Contacte-nos!



Discussão Final

Coloque, por favor, as suas questões ou peça a palavra na secção “Bate-papo” do Zoom

