



#HorizonEU

# THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027

Croatian National Information Day  
Horizon Europe Cluster 6

Tuesday, November 16th 2021

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ENVIRONMENT

Research and  
Innovation



EUROPEAN UNION

# HORIZON EUROPE



## Outline:

1. Horizon Europe

2. Horizon Europe Cluster 6

Overview

Calls 2022

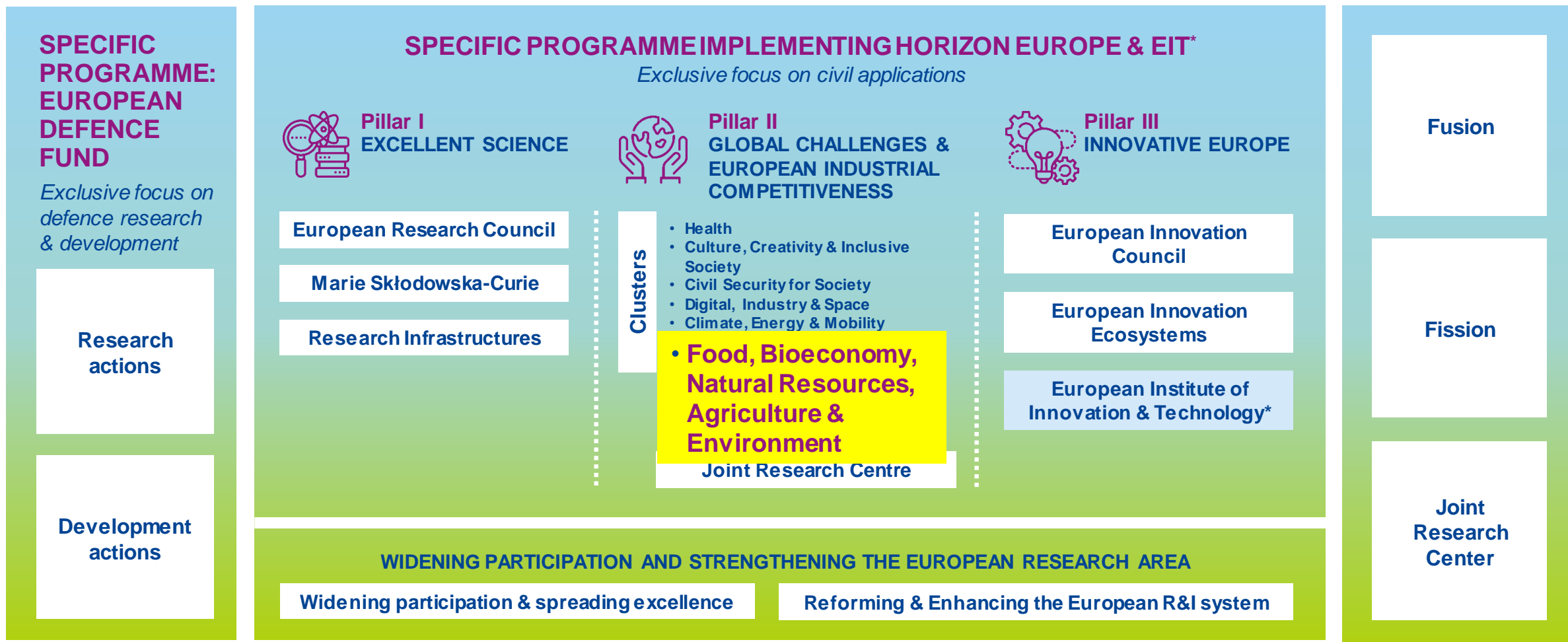
Budget

Partnerships & Missions

3. The seven Destinations Calls  
2022

# CLUSTER 6 IN HORIZON EUROPE

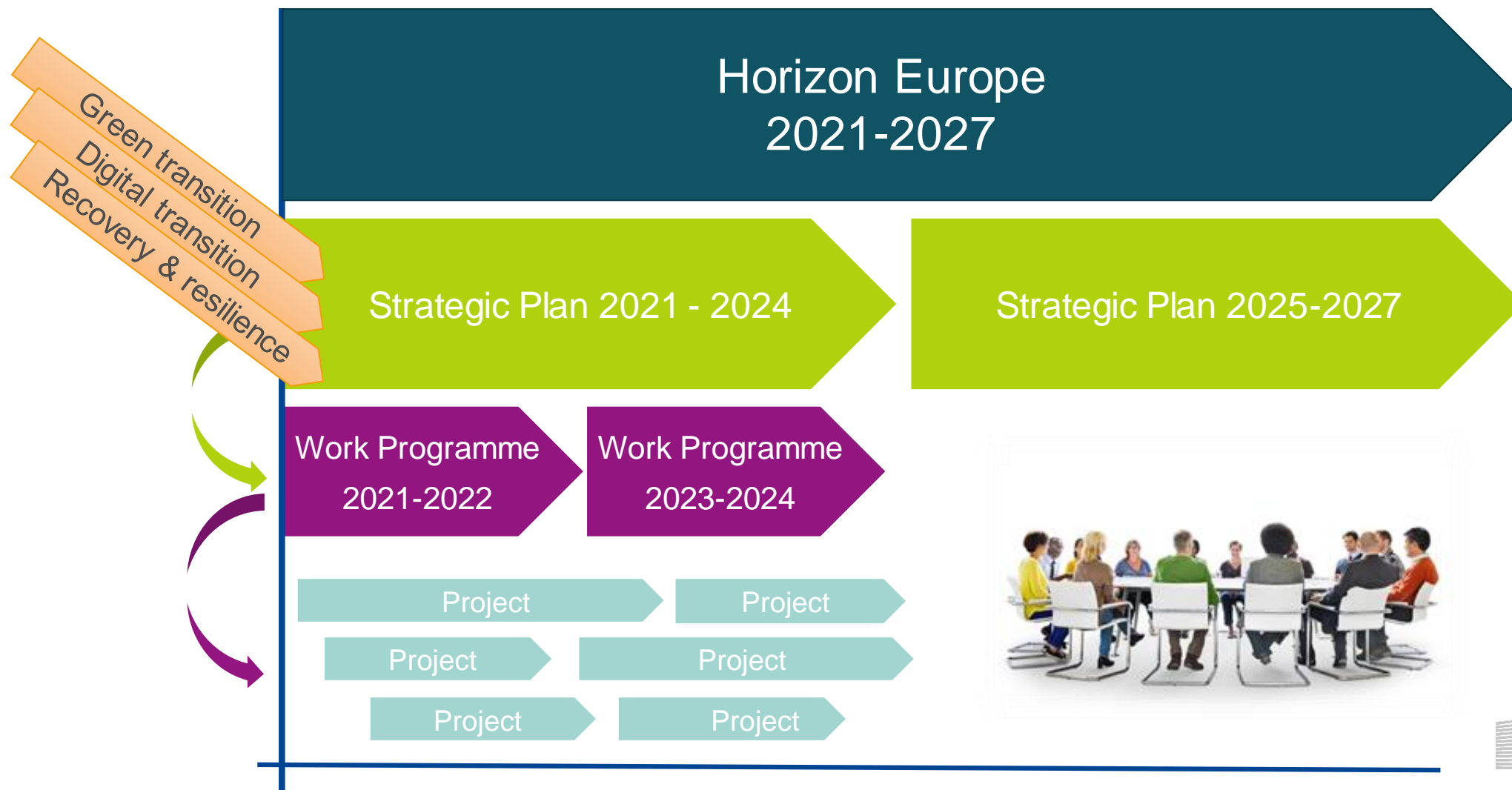
EURATOM



\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Cluster 6 budget over 7 years: 9 bio EUR

# From policy priorities to concrete action



# From expected impacts to destinations...

## Strategic Plan

## Work Programme




**Impact 1** Climate neutrality and adaptation to climate change

- Destination: Land, oceans and water for climate action



**Impact 2** Preservation and restoration of biodiversity and ecosystems

- Destination: Biodiversity and ecosystem services



**Impact 3** Sustainable and circular management of natural resources; tackling pollution; bioeconomy

- Destination: Circular economy and bioeconomy sectors
- Destination: Clean environment and zero pollution



**Impact 4** Food and nutrition security for all from sustainable food systems from farm to fork

- Destination: Fair, healthy and environmentally-friendly food systems from primary production to consumption



**Impact 5** Balanced development of rural, coastal and urban areas

- Destination: Resilient, inclusive, healthy and green rural, coastal and urban communities



**Impact 6** Innovative governance models enabling sustainability, environmental observation

- Destination: Innovative governance, environmental observations and digital solutions in support of the Green Deal







**CLIMATE  
PACT AND CLIMATE  
LAW**

**PROMOTING  
CLEAN  
ENERGY**



**INVESTING IN  
SMARTER, MORE  
SUSTAINABLE  
TRANSPORT**



**PROTECTING NATURE**



**FROM FARM  
TO FORK**



# **Cluster 6 & The European Green Deal**



**STRIVING  
FOR GREENER  
INDUSTRY**



**ELIMINATING  
POLLUTION**



**LEADING THE  
GREEN CHANGE  
GLOBALLY**



**MAKING  
HOMES ENERGY  
EFFICIENT**



**FINANCING  
GREEN  
PROJECTS**



**ENSURING  
A JUST TRANSITION  
FOR ALL**



## Cluster 6 WP 2021-2022: Calls 2022 at a glance

Destinations	Number of calls	Number of topics	Budget (in mio EUR)
1. Biodiversity	2	13	141
2. Farm to Fork	2	20	230.5
3. Circular economy and bioeconomy	2	13	142
4. Zero pollution	1	4	51
5. Land, ocean and water for Climate action	1	5	75
6. Communities	2	7	75
7. Governance	1	15	147
Total: 7 Destinations	11	77	861.5

# Cluster 6 WP 2021-2022: 2022 calls

Name of the destination	Call identifier	Opening date	Deadline	Deadline 2nd stage	Number of topics
Biodiversity and Ecosystem Services	HORIZON-CL6-2022-BIODIV-01	28/10/2021	15/02/2022		10
	HORIZON-CL6-2022-BIODIV-02	28/10/2021	15/02/2022	01/09/2022	3
Fair, healthy and environmentally-friendly food systems from primary production to consumption	HORIZON-CL6-2022-FARM2FORK-01	28/10/2021	15/02/2022		15
	HORIZON-CL6-2022-FARM2FORK-02		15/02/2022	06/09/2022	5
Circular economy and bioeconomy sectors	HORIZON-CL6-2022-CircBio-01	28/10/2021	15/02/2022		7
	HORIZON-CL6-2022-CircBio-02		15/02/2022	01/09/2022	6
Clean environment and zero pollution	HORIZON-CL6-2022-ZEROPOLLUTION-01	28/10/2021	15/02/2022		4
Land, oceans and water for climate action	HORIZON-CL6-2022-CLIMATE-01	28/10/2021	15/02/2022		5
Resilient, inclusive, healthy and green rural, coastal and urban communities	HORIZON-CL6-2022-COMMUNITIES-01	28/10/2021	15/02/2022		5
	HORIZON-CL6-2022-COMMUNITIES-02	28/10/2021	15/02/2022	06/09/2022	2
Innovative governance, environmental observations and digital solutions in support of the Green Deal	HORIZON-CL6-2022-GOVERNANCE-01	28/10/2021	15/02/2022		15
TOTAL					77



## Cluster 6 WP 2021-2022: Topics of calls 2022

Type of Action	Number of topics	%	% Budget
Research and Innovation Action (RIA)	42	54%	54%
Innovation Action (IA)	21	27%	25%
Coordination and Support Action (CSA)	13	17%	18%
Co-funded partnership*	1	1%	3%
<b>Total</b>	<b>77</b>	<b>100%</b>	<b>100%</b>

\*climate neutral, sustainable and productive Blue Economy

# Cluster 6 Co-funded partnerships

Co-funded partnership	Work Programme where the topic is introduced	Proposed EU budget for 7-years
Rescuing biodiversity to safeguard life on Earth	2021-2022	€165 mln
Water Security for the Planet (Water4All)	2021-2022	€126 mln
A climate neutral, sustainable and productive Blue Economy	2021-2022	€150 mln
Accelerating farming systems transition: agroecology living labs and research infrastructures	2023-2024	€150 mln
Animal health: fighting infectious diseases	2023-2024	€180 mln
Agriculture of data	2023-2024	€100 mln
Safe and sustainable food systems for people, planet and climate	2023-2024	€175 mln
<b>TOTAL</b>		<b>€1,046 Bio</b>

# Circular Bio-based Europe (CBE)



## NATURE

- Institutional Partnership (Public-Private)
- launch in 2021
- Successor of Bio-Based Innovation Joint Undertaking



## POLICY CONTEXT

- **EU Bioeconomy Strategy** (2018) Action Point “Mobilise public and private stakeholders, in research, demonstration and deployment of sustainable, inclusive and circular bio-based solutions”
- A **European Green Deal**



## VISION

- Produce major contributions to the **climate targets in 2030** and to pave the way for climate neutrality by 2050, and increased sustainability and circularity of production and consumption systems,
- Sustainable sourcing and conversion of biomass into bio-based products focusing on **multiscale biorefinery processing**,
- **Circular economy approaches** such as utilisation of biological waste from agriculture, industry and municipal sectors,
- Deployment of bio-based innovation **at regional scale** for revival of rural and economically depressed regions.

# Synergies with EU Missions

- Two of the 5 Missions have their clear centre of gravity in Cluster 6 (Oceans and Waters – Soil Deal)
- Cluster 6 also has strong links with the Mission on Climate adaptation



Adaptation to  
Climate change



Cancer



Restore our  
Oceans and  
Waters



Climate-  
neutral &  
smart cities



Soil Deal for  
Europe

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CALL HORIZON-CL6-2022-BIODIV-01

CALL HORIZON-CL6-2022-BIODIV-02 (TWO-STAGE)

## Biodiversity and Ecosystem Services



# CALLS BIODIVERSITY AND ECOSYSTEM SERVICES



Understanding  
biodiversity  
decline

**2 topics**  
€20 million



Valuing and  
restoring  
biodiversity  
and ecosystem  
services

**2 topics**  
€16 million



Managing  
biodiversity in  
primary  
production

**6 topics**  
€78 million



Enabling  
transformative  
change on  
biodiversity

**2 topics**  
€8 million



Interconnecting  
biodiversity  
research and  
supporting  
policies

**1 topic**  
€5 million

Call HORIZON-CL6-2022-BIODIV-01  
Call HORIZON-CL6-2022-BIODIV-02-two-stage



**€141 million**



# CALLS BIODIVERSITY AND ECOSYSTEM SERVICES



## POLICY CONTEXT

- European Green Deal
- **EU Biodiversity Strategy for 2030**
- Farm to Fork
- Nature Directives
- Global post-2020 Biodiversity Framework
- Convention on Biological Diversity
- IPBES / IPCC



## IMPACT FROM STRATEGIC PLAN

- **Biodiversity is back on a path to recovery, and ecosystems and their services are preserved and sustainably restored** on land, inland water and at sea through improved knowledge and innovation



## IMPACT AREAS

- **Enhancing ecosystems and biodiversity on land and in water**
- Climate change mitigation and adaptation
- Clean and healthy air, water and soil
- Sustainable food systems from farm to fork on land and sea
- A resilient EU prepared for emerging threats

# CALLS BIODIVERSITY AND ECOSYSTEM SERVICES



## Expected impacts

- **Biodiversity decline**, its **main direct drivers and their interrelations** are better understood and addressed.
- **Biodiversity and natural capital are integrated into public and business decision-making** at all levels for the protection and restoration of ecosystems and their services.
- Europe builds competitive sustainability and tackles climate change and natural disasters through the **deployment of nature-based solutions**.
- The **interrelations between biodiversity, health, food, soil, water, air and climate** are better known.
- **Practices in agriculture and forestry** support biodiversity and the provision of other ecosystems services.
- Access to a **wider range of crops and breeds with a broadened genetic base** is improved in line with global biodiversity commitments.
- Approaches for **enabling transformative changes** in society are developed: **‘do not harm’ biodiversity policies become mainstream** in all sectors.
- Biodiversity research is **interconnected across Europe** and supports national, EU and international policies.

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CALL HORIZON-CL6-2022-FARM2FORK-01

CALL HORIZON-CL6-2022-FARM2FORK-02-TWO-STAGE

Fair, healthy and environment-friendly food systems  
from primary production to consumption



# FAIR, HEALTHY AND ENVIRONMENT-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION



**Enabling  
sustainable  
farming**

**8 topics**  
**€79.5 million**



**Enabling  
sustainable  
fisheries and  
aquaculture**

**3 topics**  
**€40 million**



**Transforming food  
systems for health,  
sustainability and  
inclusion**

**5 topics**  
**€57 million**



**Targeted  
international  
cooperation**

**4 topics**  
**€54 million**

**Call HORIZON-CL6-2022-FARM2FORK-01**  
**Call HORIZON-CL6-2022-FARM2FORK-02-two-stage**

**€231 million**

# FAIR, HEALTHY AND ENVIRONMENT-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION



## POLICY CONTEXT

- European Green Deal
- Farm to Fork Strategy
- Common Agricultural Policy
- Food2030
- Strategic Approach to EU Agricultural Research and Innovation



## IMPACT FROM STRATEGIC PLAN

**Food and nutrition security for all within planetary boundaries is ensured** through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems, which are sustainable, resilient, inclusive, safe and healthy **from farm to fork**



## IMPACT AREAS

- Sustainable food systems from farm to fork on land and sea
- Climate change mitigation and adaptation
- Enhancing ecosystems and biodiversity on land and in water
- Good health and high-quality accessible healthcare
- Clean and healthy air, water and soil
- A resilient EU prepared for emerging threats
- Inclusive growth and new job opportunities

# FAIR, HEALTHY AND ENVIRONMENT-FRIENDLY FOOD SYSTEMS FROM PRIMARY PRODUCTION TO CONSUMPTION

## Expected impacts

- Sustainable, productive, climate-neutral and resilient **farming systems** providing consumers with affordable, safe, traceable healthy and sustainable food, while minimising pressure on ecosystems, restoring and enhancing biodiversity, improving public health and generating fair economic returns for farmers;
- Sustainable **fisheries and aquaculture** increasing aquatic biomass production, diversification and consumption of seafood products for fair, healthy, climate-resilient and environment-friendly food systems with low impact on aquatic ecosystems and high animal welfare; and
- Sustainable, healthy and inclusive **food systems** delivering co-benefits for climate mitigation and adaptation, environmental sustainability and circularity, sustainable healthy nutrition, safe food consumption, food poverty reduction, the inclusion of marginalised people, the empowerment of communities, and flourishing businesses



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# CALLS HORIZON-CL6-2022-CIRCBIO-01 & HORIZON-CL6-2022-CIRCBIO-02-TWO-STAGE

## Call Circular economy and bioeconomy sectors



# CALLS CIRCULAR ECONOMY AND BIOECONOMY SECTORS



Enabling a circular economy transition

2 topics

€31 million



Innovating sustainable bio-based systems and the bioeconomy

8 topics

€74 million



Safeguarding the multiple functions of EU forests

2 topics

€19 million



Innovating for blue bioeconomy and biotechnology value chains

1 topic

€18 million

HORIZON-CL6-2022-CIRCBIO-01  
HORIZON-CL6-2022-CIRCBIO-02-two-stage

➔ €142million

# CALLS CIRCULAR ECONOMY AND BIOECONOMY SECTORS



## POLICY CONTEXT

- European Green Deal
- Circular Economy Action Plan
- Biodiversity Strategy
- Bioeconomy Strategy
- Forest Strategy
- Plastics Strategy
- Industrial Strategy
- SME Strategy



## IMPACT FROM STRATEGIC PLAN

**Sustainable and circular management and use of natural resources** as well as **prevention and removal of pollution are mainstreamed**, unlocking the potential of the **bioeconomy**, ensuring competitiveness and guaranteeing healthy soil, air, fresh and marine water for all, through better understanding of planetary boundaries and deployment of innovative technologies and other solutions, notably in **primary production, forestry and bio-based systems**



## IMPACT AREAS

- Climate change mitigation and adaptation
- Enhancing ecosystems and biodiversity on land and in water
- A resilient EU prepared for emerging threats
- Inclusive growth and new job opportunities
- Industrial leadership in key and emerging technologies that work for people

# CALLS CIRCULAR ECONOMY AND BIOECONOMY SECTORS

## Expected impacts

- **Regional, rural, local/urban and consumer-based transitions towards a sustainable, regenerative, inclusive and just circular economy and bioeconomy** across all regions of Europe based on enhanced knowledge and understanding of science;
- European **industrial sustainability, competitiveness and resource independence** by lowering the use of primary non-renewable raw materials and reducing greenhouse gas emissions and other negative environmental footprint;
- **Improved consumer and citizen benefits**;
- **Multi-functionality and management of forests** in Europe based on the three pillars of sustainability (economic, environmental and social);
- **Enlarged potential of marine and freshwater biological resources and blue biotechnology** to deliver greener (climate-neutral circular) industrial products and processes, and to help characterise, monitor and sustain the health of aquatic ecosystems for a healthy planet and people.

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CALL HORIZON-CL6-2022-ZEROPOLLUTION-01

Clean environment and zero pollution



# CALL CLEAN ENVIRONMENT AND ZERO POLLUTION



**Halting emissions  
of pollutants to  
soils and waters**

**3 topics**

**€36 million**



**Protecting drinking  
water and  
managing urban  
water pollution**

**1 topic**

**€15 million**



**Addressing  
pollution on seas  
and ocean**

**no topic**



**Increasing environmental  
performances and  
sustainability of processes  
and products**

**no topic**

**HORIZON-CL6-2022-ZEROPOLLUTION-01**



**€51 million**



# CALL CLEAN ENVIRONMENT AND ZERO POLLUTION



## POLICY CONTEXT

- European Green Deal
- Clean environment and zero pollution ambition..
- Bioeconomy Strategy
- Circular Economy action plan
- Farm to Fork strategy
- Soil strategy
- Marine strategy
- EU water policy



## IMPACT FROM STRATEGIC PLAN

**Sustainable and circular management and use of natural resources** as well as **prevention and removal of pollution** are mainstreamed, unlocking the potential of the bioeconomy, ensuring competitiveness and **guaranteeing healthy soil, air, fresh and marine water for all**, through better understanding of planetary boundaries and deployment of innovative technologies and other solutions, notably in primary production, forestry and bio-based systems



## IMPACT AREAS

- Climate change mitigation and adaptation
- Enhancing ecosystems and biodiversity on land and in water
- Good health and high-quality accessible healthcare
- Clean and healthy air, water and soil
- A resilient EU prepared for emerging threats
- Inclusive growth and new job opportunities

# CALL CLEAN ENVIRONMENT AND ZERO POLLUTION

## Expected impacts

- Advanced understanding of **diffuse and point sources of water pollution** in a global and climate change context, enabling novel solutions **to protect water bodies, aquatic ecosystems and soil functionality, and further enhancing water quality and its management for safe human and ecological use**, while fostering the EU's and Associated Countries' position and role in the global water scene.
- Balanced **N/P flows** well within safe ecological boundaries at EU and Associated Countries, regional and local scale, contribute to restoring ecosystems.
- **Clean, unpolluted seas** in the EU and Associated Countries as a result of successful behavioural, social-economic, demographic, governance and green-blue transitions.
- **Circular bio-based systems** reversing climate change, restoring biodiversity and protecting air, water and soil quality along supply chain of biological feedstock and industrial value chains, within the EU and Associated Countries and across borders.
- **Innovative biotechnology** creating zero-pollution bio-based solutions.

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CALL HORIZON-CL6-2022-CLIMATE-01

# Land, ocean and water for climate action



# CALL LAND, OCEAN AND WATER FOR CLIMATE ACTION

This call is not partitioned into « headings ». It includes 5 topics on:

- Climate sensitive **water allocation systems** and economic instruments
- Understanding the **oceanic carbon cycle**
- Demonstration **network on climate-smart farming** – boosting the role of advisory services
- Fostering the **resilience of food security**: from observation of changes to the development of resilience strategies
- **Forestry** - European **observatory of climate change impacts** and **demonstration network of climate smart restoration**

Call HORIZON-CL6-2022-CLIMATE-01



€75 million

# CALL LAND, OCEAN AND WATER FOR CLIMATE ACTION



## POLICY CONTEXT

- European Green Deal
- Climate Action
- Biodiversity Strategy
- Farm to Fork Strategy
- Common Agricultural Policy
- EU Arctic Policy, All-Atlantic Ocean Research Alliance



## IMPACT FROM STRATEGIC PLAN

- Climate neutrality is achieved by reducing GHG emissions, maintaining natural carbon sinks, and enhancing the sequestration and storage of carbon in ecosystems, including by unfolding the potential of nature based solutions, production systems on land and at sea as well as rural and coastal areas, where adaptations to climate change are also being fostered for enhancing resilience



## IMPACT AREAS

- *Climate change mitigation and adaptation*
- *Enhancing ecosystems and biodiversity on land and in water*
- *Clean and healthy air, water and soil*
- *Sustainable food systems from farm to fork on land and sea*
- *A resilient EU prepared for emerging threats*
- *A secure and open EU society*
- *Inclusive growth and new job opportunities*

# CALL LAND, OCEAN AND WATER FOR CLIMATE ACTION

## Expected impacts

- Better understanding and enhancing the **mitigation potential of ecosystems and sectors** based on the sustainable management of natural resources;
- Advanced understanding and science to support **adaptation and resilience** of natural and managed ecosystems, water and soil systems and economic sectors in the context of the changing climate;
- Efficient monitoring, assessment and projections related to climate change impacts, **mitigation and adaptation potential** in order to bring out solutions for **tackling emerging threats** and support decision-making in climate change mitigation and adaptation policies at European and global levels;
- Fostered **climate change mitigation in the primary sector**, including by the **reduction of GHG emissions**, maintenance of **natural carbon sinks** and enhancement of sequestration and storage of carbon in ecosystems;
- Improved **adaptive capacity of water and soil systems** and sectors including by unlocking the potential of **nature-based solutions**;
- Better managed scarce resources, in particular soils and water, thus **mitigating climate related risks, in particular desertification and erosion**, thanks to informed decision-makers and stakeholders and integration of adaptation measures in relevant EU policies.



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CALL HORIZON-CL6-2022-COMMUNITIES-01

CALL HORIZON-CL6-2022-COMMUNITIES-02-TWO-STAGE

Resilient, inclusive, healthy and green rural, coastal  
and urban communities



# CALLS RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES

The two calls are not partitioned into « headings ». They include 7 topics on:  **€75 million**

- **Empowerment** of actors to innovate and **act for transitions** (all)

## Call HORIZON-CL6-2022-COMMUNITIES-01

 **€42 million**

- Boosting **women-led innovation** in farming and rural areas
- Assessing and improving **labour conditions and health and safety at work** in farming
- Integrating **marine ecosystem service** valuation, conservation and restoration **in socio-economic models**
- **Social innovation in food sharing** to strengthen urban communities' food resilience
- Assessing the **socio-politics of nature-based solutions** for more inclusive and resilient communities

## Call HORIZON-CL6-2022-COMMUNITIES-02-two-stage

 **€33 million**

- Empowering **rural communities and smart villages to innovate** for societal change (Smart solutions for smart rural communities)
- Developing **nature-based therapy for health and well-being**

# CALLS RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES



## POLICY CONTEXT

- European Green Deal
- Biodiversity Strategy
- Farm to Fork Strategy
- Zero pollution ambition
- Bioeconomy Strategy
- EU long-term vision for rural areas
- Digital age & digital decade
- European pillar of social rights
- Sustainable Development Goals



## IMPACT FROM STRATEGIC PLAN

- Rural, coastal and urban areas are developed in a sustainable, balanced and inclusive manner thanks to a better understanding of the environmental, socio-economic, behavioural and demographic drivers of change as well as deployment of digital, social and community-led innovations



## IMPACT AREAS

- Climate change mitigation and adaptation
- Enhancing ecosystems and biodiversity on land and in water
- Sustainable food systems from farm to fork
- Good health and high-quality accessible healthcare
- A resilient EU prepared for emerging threats
- A competitive and secure data-economy
- Inclusive growth and new job opportunities

# CALLS RESILIENT, INCLUSIVE, HEALTHY AND GREEN RURAL, COASTAL AND URBAN COMMUNITIES

## Expected impacts

- Rural, coastal and urban areas are developed in a sustainable, balanced and inclusive manner.
- Rural, coastal and urban communities are empowered to **act for change**, better prepared to achieve climate neutrality, adapt to climate change, and turn digital and ecological transitions into **increased resilience** to various types of shocks, good health and **positive long-term prospects**, including jobs, for all including women, young people and vulnerable groups.
- Rural communities are equipped with **innovative and smarter solutions** that increase access to services, opportunities and adequate innovation ecosystems.
- The sustainable development of **coastal areas** including coastal protection and resilience reaps the benefits of **social, digital and community-led innovations**.
- **Tourism, recreational and leisure activity** development in natural and coastal areas respects **long-term environmental carrying capacity, and social goals**.
- **Urban and peri-urban communities** – including the most vulnerable individuals and families – can **access, afford and choose** healthier, nutritious and environmental-friendly food.

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HORIZON-CL6-2022-GOVERNANCE-01

# CALL INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL



# INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL



## POLICY CONTEXT

- European Green Deal
- European space programme with the Copernicus part on Earth observation, European Space Agency's (ESA) Earth observation programme
- The European digital strategy, the European strategy for data, the common agricultural policy, etc



## IMPACT FROM STRATEGIC PLAN

- **Innovative governance models** enabling sustainability and resilience are established and monitored through enhanced and shared use of new **knowledge**, tools, foresight, and **environmental observations** as well as **digital**, modelling and forecasting capabilities



## IMPACT AREAS

- Climate change mitigation and adaptation
- Clean and healthy air, water and soil
- Enhancing ecosystems and biodiversity on land and in water
- Sustainable food systems from farm to fork on land and sea
- High quality digital services for all
- A Competitive and secure data-economy

# INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL

## Expected impacts

- Innovative governance models enabling sustainability and resilience notably to achieve **better informed decision-making processes, societal engagement and innovation**;
- Green Deal related domains benefit from further **deployment and exploitation of Environmental Observation** data and products;
- A **strengthened Global Earth Observation System of Systems** (GEOSS);
- **Sustainability performance and competitiveness** in the domains covered by Cluster 6 are enhanced through further deployment of digital and data technologies as key enablers;
- More informed and engaged stakeholders and end users including primary producers and consumers thanks to effective platforms such as **Agriculture Knowledge and Innovation Systems** (AKIS) ;
- Strengthened EU and international science-policy interfaces to achieve the **Sustainable Development Goals**.



# INNOVATIVE GOVERNANCE, ENVIRONMENTAL OBSERVATIONS AND DIGITAL SOLUTIONS IN SUPPORT OF THE GREEN DEAL

**HORIZON-CL6-2022-GOVERNANCE-01**

 **€ 147 million**

**Innovating with governance models and supporting policies**

**6 topics**  **€ 54 million**

**Deploying and adding value to Environmental Observations**

**3 topics**  **€ 44 million**

**Digital and data technologies as key enablers**

**2 topics**  **€ 23 million**

**Strengthening agricultural knowledge and innovation systems**

**4 topics**  **€ 26 million**



EUROPEAN UNION

# EU MISSIONS



**Concrete solutions for our greatest challenges**

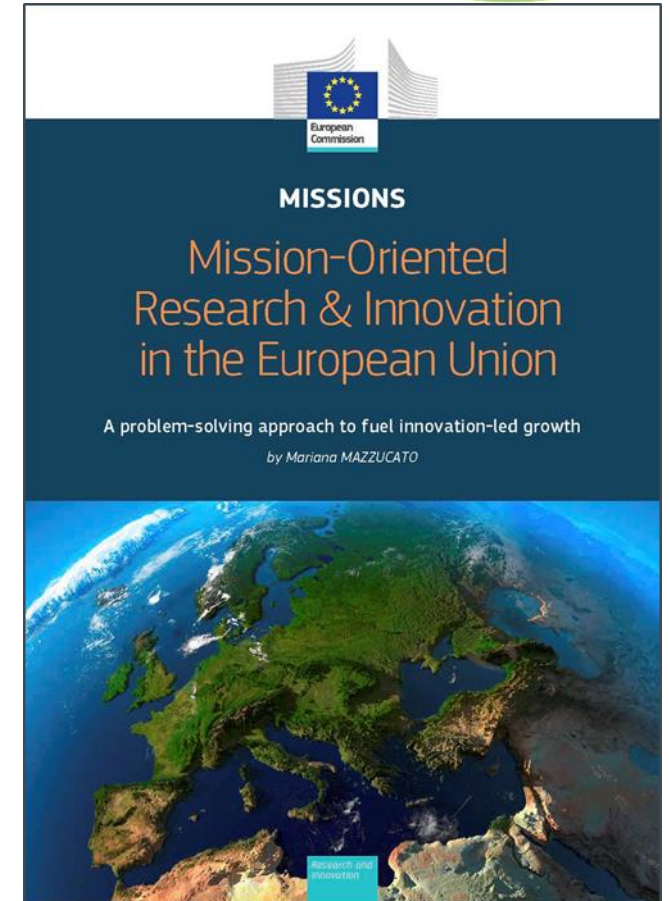
#EUmissions #HorizonEU



# What are missions?

## R&I missions should:

- Be bold and inspirational, with wide societal relevance
- Indicate a clear direction: targeted, measurable and time-bound
- Be ambitious but realistic research and innovation actions
- Spark innovation across disciplines, sectors and actors
- Be based on a bottom-up approach of multiple solutions



Scan me to read the report



# The communication on Missions

## The context

- **climate and health crises** need to be tackled in new and innovative ways
- **new way of working** across policy areas, fields of expertise and science, engaging with companies, local communities and the innovation community

## EU Missions

- **rooted in research and innovation**, aiming to address **societal challenges** and reconnect citizens with the EU
- directly **support EU priorities** such as the European Green Deal, Europe's Beating Cancer Plan and the New European Bauhaus



# Five EU Missions

Adaptation to  
Climate Change



Cancer



Climate-neutral  
and Smart Cities



Restore our  
Ocean and Waters



Soil Deal  
for Europe



# Adaptation to Climate Change



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

- Preparing and planning for climate resilience;
- accelerating transformations to climate resilience;
- demonstrating systemic transformations to climate resilience (75 large-scale demonstrations of systemic transformations to climate resilience across European regions and communities).





# Cancer



**Improve the lives of more than 3 million people by 2030 through prevention, cure and for those affected by cancer including their families, to live longer and better.**

- Improve the understanding of cancer
- Prevention, including early detection and screening
- Optimise diagnostics and treatment
- Support the quality of life

**Provide a vital research and policy development support for the Europe's beating cancer plan.**







# Restore our Seas and Waters



## Restore the health of our ocean and waters by 2030

- Protect and restore marine and fresh water ecosystems and biodiversity
- Prevent and eliminate pollution of our ocean, seas and waters, and
- Make the sustainable blue economy carbon-neutral and circular



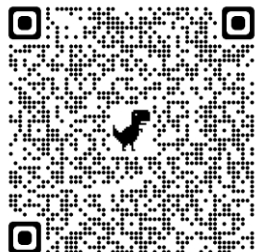


# Climate Neutral and Smart Cities



**Deliver at least 100 climate-neutral and smart European cities by 2030 and these cities should act as demonstration and innovation hubs to allow for all European cities to become climate-neutral by 2050.**

- Cities can contribute to our European Green Deal targets to reduce GHG emissions by 55% by 2030 - leading in climate and digital innovation.
- Huge co-benefits to their citizens – lower energy bills, cleaner air, safer walking and biking in cities, less congestion.





# Soil Deal for Europe



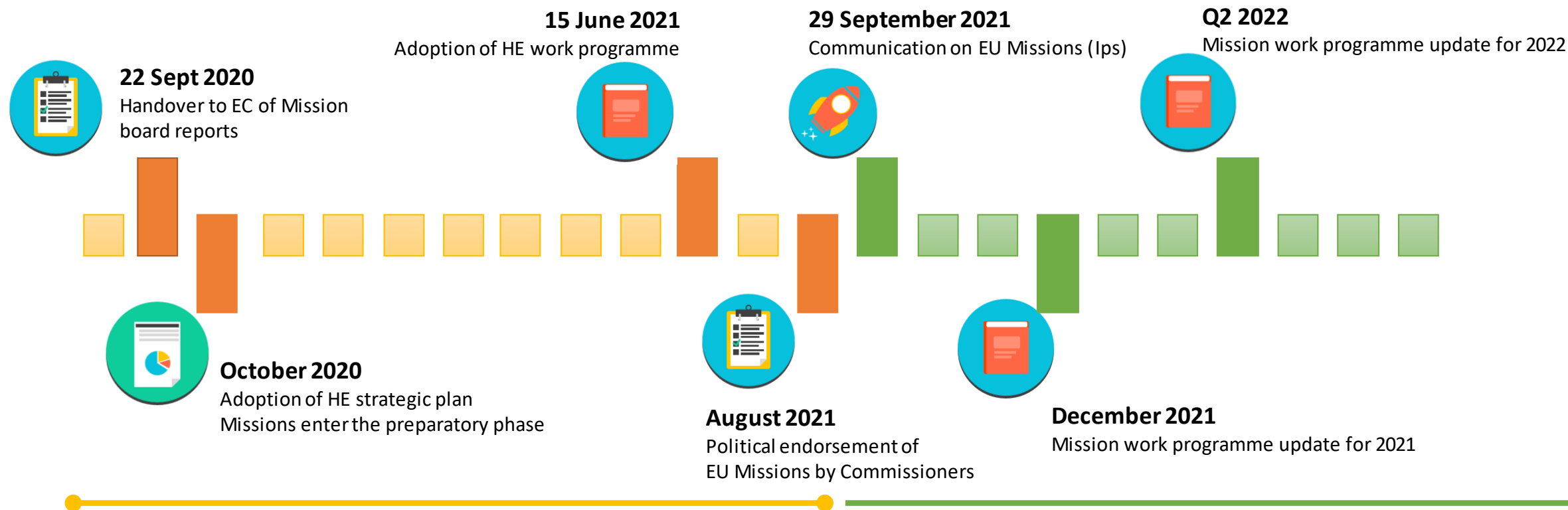
**Create 100 living labs and lighthouses to lead the transition towards healthy soils by 2030.**

- Protect and restore soils in Europe and beyond.
- Put communities and stakeholders at the centre of the innovation process to co-create knowledge and solutions in real-life conditions.
- Have to act together so that future generations inherit clean, productive and resilient soils for food, people, nature and climate.





# 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.

# Useful Links

- **Funding and Tender portal:** [https://ec.europa.eu/info/funding-tenders/find-funding/eu-funding-programmes/horizon-europe\\_en](https://ec.europa.eu/info/funding-tenders/find-funding/eu-funding-programmes/horizon-europe_en)
- **Cluster 6 Info days call 2022:** [https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/cluster-6\\_en](https://ec.europa.eu/info/research-and-innovation/events/upcoming-events/horizon-europe-info-days/cluster-6_en)
- **Cluster 6 Work Programme 2021-2022:** [https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-9-food-bioeconomy-natural-resources-agriculture-and-environment\\_horizon-2021-2022\\_en.pdf](https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-9-food-bioeconomy-natural-resources-agriculture-and-environment_horizon-2021-2022_en.pdf)
- **Cluster 6:** [https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/cluster-6-food-bioeconomy-natural-resources-agriculture-and-environment\\_en](https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/cluster-6-food-bioeconomy-natural-resources-agriculture-and-environment_en)
- **Horizon Europe Strategic Plan 2021-2024:** <https://op.europa.eu/s/ufOf>
- **Questions to the Research Enquiry Service:** [https://ec.europa.eu/info/research-and-innovation/contact/research-enquiry-service\\_en](https://ec.europa.eu/info/research-and-innovation/contact/research-enquiry-service_en)



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**Thank you!**

