

Altre opportunità in Horizon Europe: dai Cluster alle Mission

Serena Borgna – APRE

borgna@apre.it

15 febbraio 2022



PRIMA
INFO-DAY

15 FEBBRAIO 2022
online dalle ore 11.30

primaitaly.it



EUROPEAN UNION

© European Union, 2020



#HorizonEU

HORIZON EUROPE

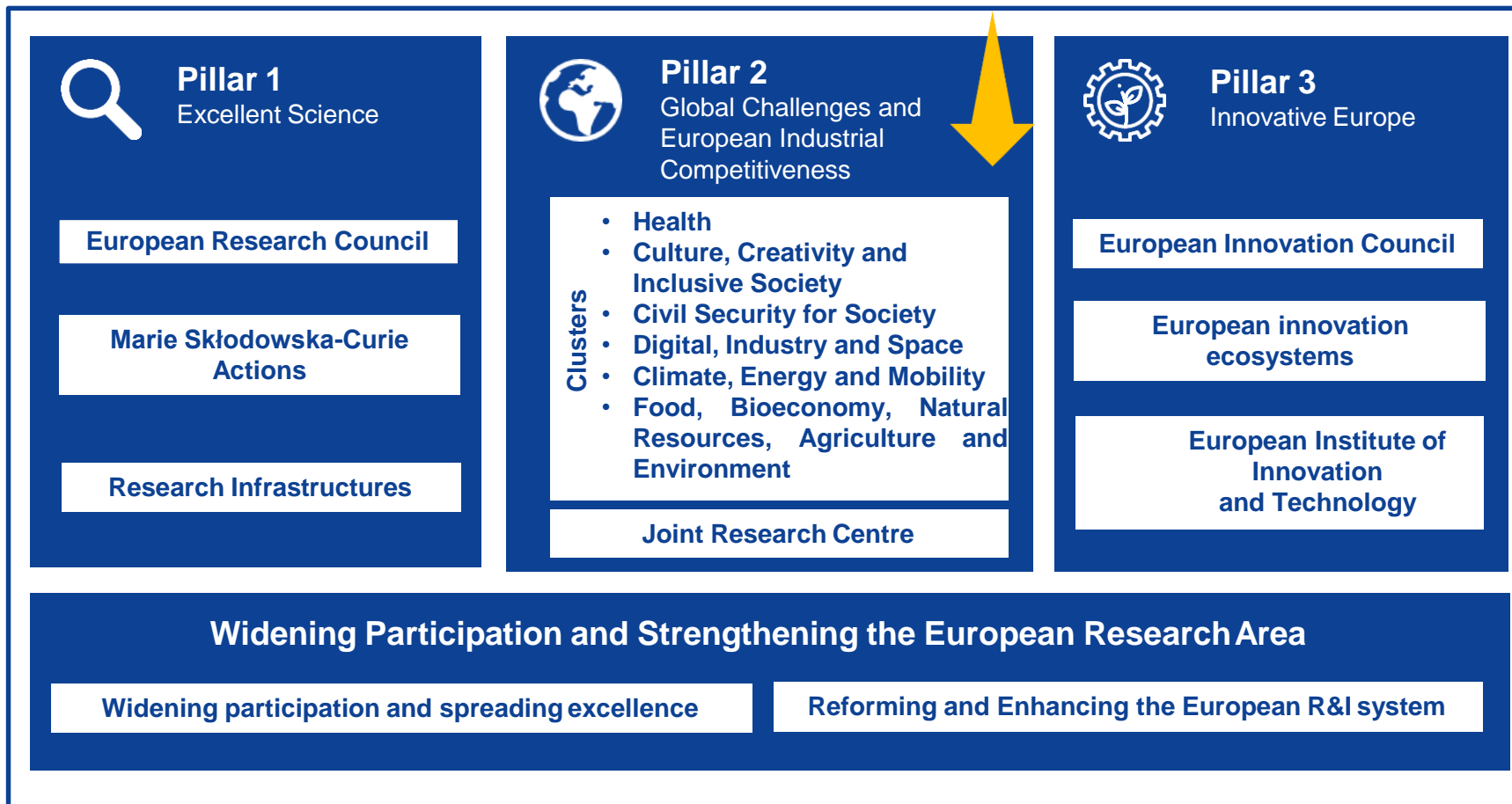
THE EU RESEARCH &
INNOVATION PROGRAMME

2021 - 2027





Horizon Europe: structure



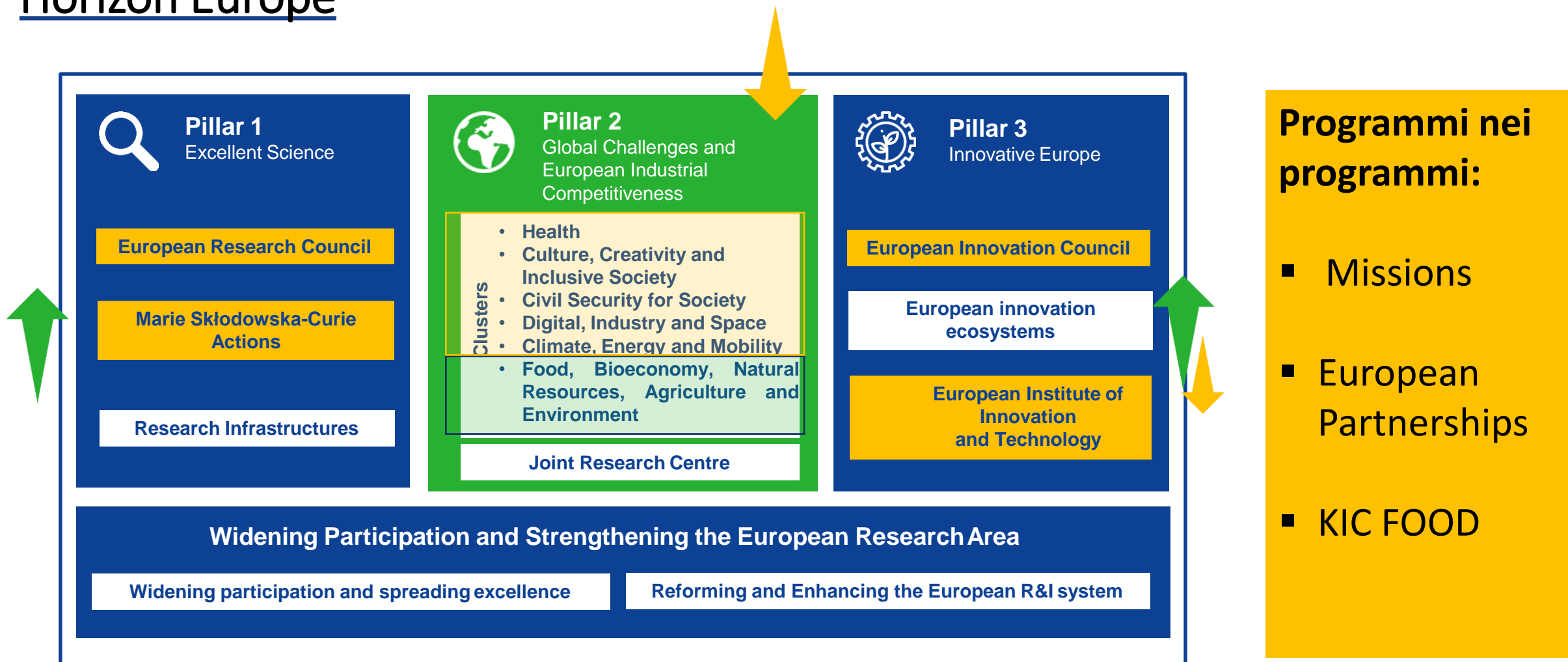


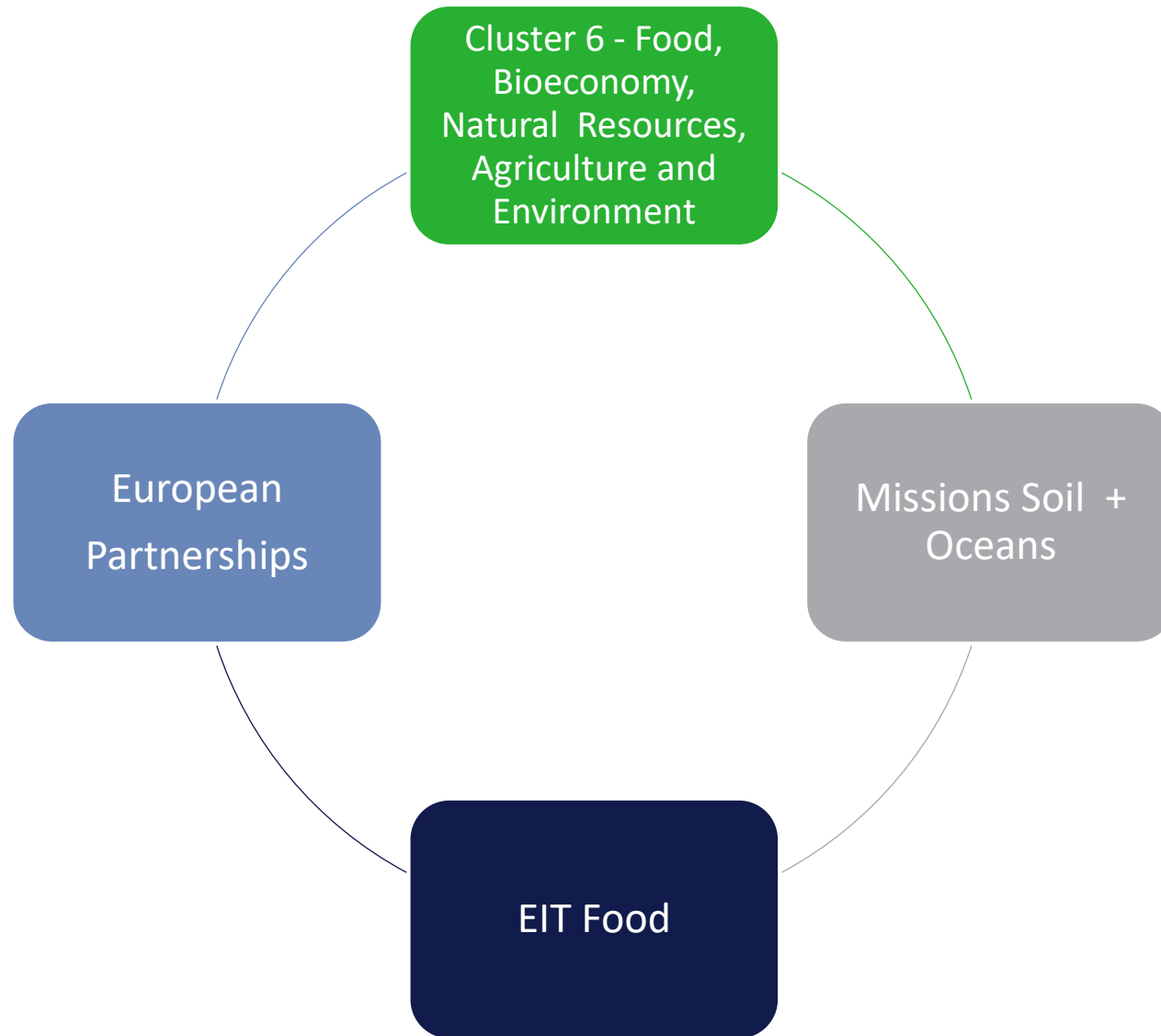
Horizon Europe



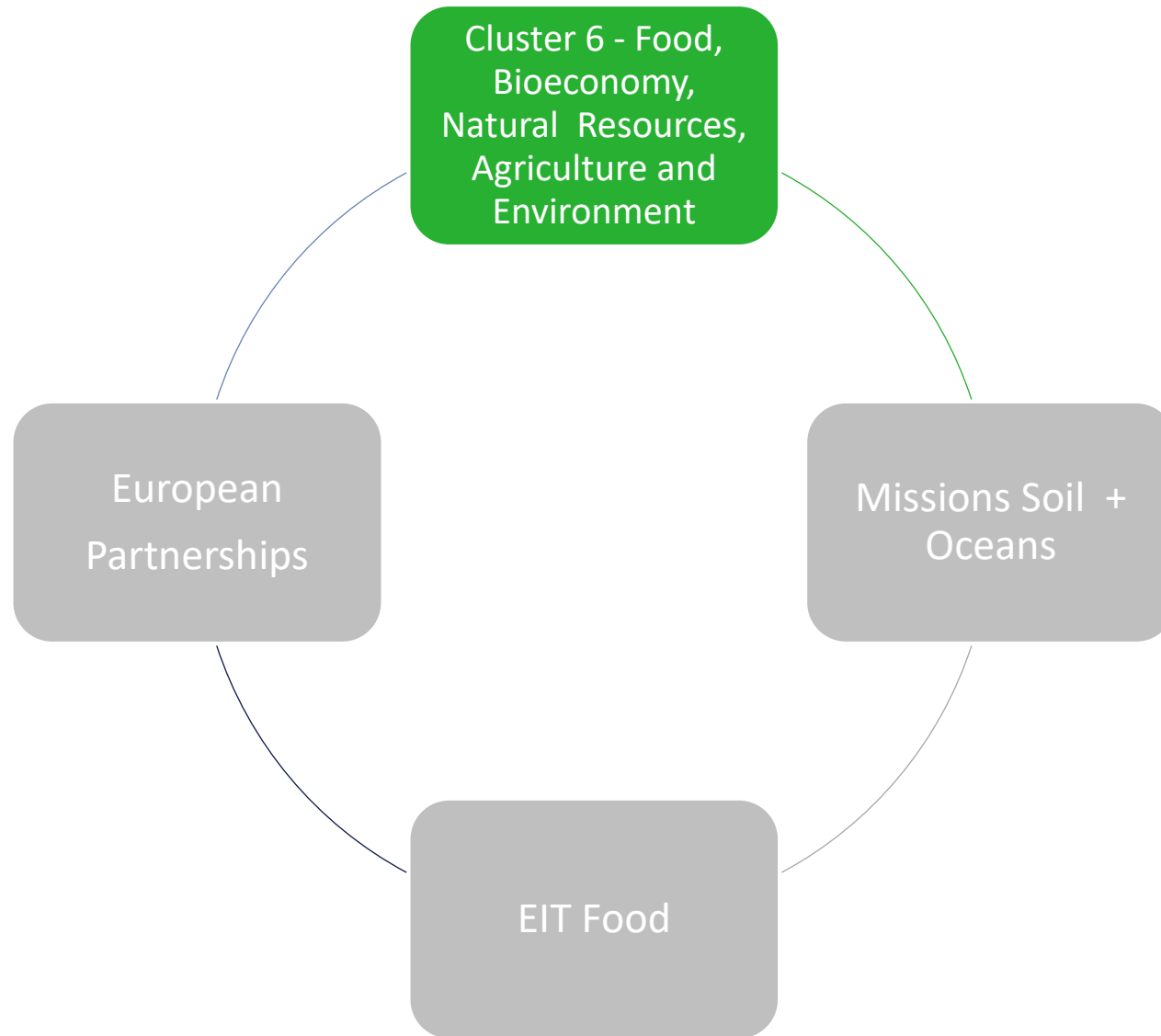


Horizon Europe





PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA



PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA

CL6: Food, bioeconomy, natural resources, agriculture and environment

- aims at reducing **environmental degradation**, halting and reversing the decline of **biodiversity** on land, inland waters and sea and better managing **natural resources** through social and economic changes in both urban and rural areas.
- will ensure **food and nutrition security** for all through knowledge, innovation and digitalisation in agriculture, fisheries, aquaculture and food systems and accelerate the transition to a **circular economy** and sustainable bioeconomy, including forestry.
- R&I activities under CL6 will contribute to the objectives of the [European Green Deal](#) related to the [Biodiversity Strategy to 2030](#), the [Farm to Fork strategy](#), the [European Climate Pact](#) and initiatives under [sustainable industry](#) and [eliminating pollution](#), as well as the [long-term vision for rural areas](#), and the Sustainable Development Goals.

Intervention Areas
Environmental Observation
Biodiversity and natural resources
Agriculture, Forestry and rural areas
Seas, oceans and inland waters
Food systems
Biobased innovation systems in the EU Bioeconomy
Circular systems



Il II pillar di Horizon EUROPE

- ↗ incentrato sulle **sfide globali e la competitività industriale**,
- ↗ migliorare le **problematiche della società e le tecnologie industriali** con un approccio *top - down*
- ↗ **ricerca collaborativa** → consorzio europeo con impatto europeo dell'azione
- ↗ integrazione in cluster, con una serie di settori di intervento ciascuno per incentivare la **collaborazione interdisciplinare, intersettoriale, trasversale e internazionale**, ottenendo così un impatto più elevato e cogliendo meglio il potenziale di innovazione che spesso è maggiore i punti di intersezione di discipline e settori
- ↗ il ruolo essenziale dell'**industria** nel conseguimento di tutti gli obiettivi del programma, favorito anche dagli investimenti nelle tecnologie abilitanti fondamentali del futuro.



Il contesto politico

Obiettivi di sviluppo sostenibile



GREEN DEAL EUROPEO

Adoperarsi per divenire il primo continente a impatto climatico zero.



UN'EUROPA PRONTA PER L'ERA DIGITALE

La strategia digitale dell'UE doterà le persone di competenze inerenti a una nuova generazione di tecnologie.



UN'ECONOMIA AL SERVIZIO DELLE PERSONE

L'UE deve creare un ambiente più attraente per gli investimenti e una crescita che offra lavori di qualità, in particolare per i giovani e le piccole imprese.

ALTRE POLITICHE EUROPEE

Politica agricola comune, Politica comune della pesca, Politica marittima integrata, Politica artica, Legislazione alimentare generale, Strategia per la bioeconomia, Strategia forestale, Strategia Crescita Blu, Strategia per la sostenibilità della Chimica, Strategia sulla plastica, Strategia europea in materia di dati, Food 2030 e altre iniziative legislative per la protezione della biodiversità, del suolo, dell'acqua, dell'aria e delle risorse marine.

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



Cluster 6 Budget over 7 years

Overall budget	€8.952 billion
Operational budget	€8.4 billion
10% for missions  	- €0.9 billion
CBE partnership 	- €1 billion
Available budget for the Work Programmes	€6,5 billion

Programmi nei programmi:

Missions

European Partnerships

Disclaimer: Information included in this presentation is provisional and has not been adopted or endorsed by the European Commission. Any views expressed are the preliminary views of the Commission services and may not in any circumstances be regarded as stating an official position of the Commission.



WP2021
(scaduto)

WP 2022
(in scadenza –
Febb/Marzo 22)

WP 23-24
(in preparazione
- lancio Dic 2022)



CL6 - Destinations

Destination #1 “Biodiversity and Ecosystem Services” Sostiene la ripresa e il ripristino degli ecosistemi attraverso una gestione sostenibile del suolo, delle acque interne e del mare, che ne protegga l’integrità e favorisca l’integrazione tra settori.

Destination #2 “Fair, healthy and environmentally-friendly food systems from primary production to consumption” Contribuisce a guidare e accelerare la transizione verso sistemi alimentari sostenibili, sicuri, sani e inclusivi, dal produttore al consumatore, e a garantire la sicurezza alimentare.

Destination #3 “Circular economy and bioeconomy sectors” Sostiene soluzioni circolari, guidate dalla neutralità climatica e dalla bioeconomia per generare soluzioni, integrate, sicure a livello territoriale e in settori diversi.

Destination #4 “Clean environment and zero pollution” Arresta e previene l’inquinamento, sostenendo azioni di R&I su acque interne e marine, suolo, aria, comprese le emissioni di azoto e fosforo, sulle prestazioni ambientali e sulla sostenibilità dei processi nei sistemi a base biologica



CL6 - Destinations

Destination #5 “Land, oceans and water for climate action” Studia l’impatto del cambiamento climatico sugli ambienti terrestri e marini, sulle risorse naturali, l’agricoltura e i sistemi agroalimentari, identificando azioni di mitigazioni e percorsi di adattabilità.

Destination #6 “Resilient, inclusive, healthy and green rural, coastal and urban communities” Mette al centro i luoghi, dalle aree rurali e a quelle costiere, e le persone per raggiungere un’Europa più sostenibile e resiliente, anche nella reazione alla recente pandemia, nell’utilizzo, protezione e gestione delle risorse naturali.

Destination #7 “Innovative governance, environmental observations and digital solutions in support of the Green Deal” Assicura che il processo di transizione verde passi per un’innovazione nei modelli di governance, un’informazione e conoscenza disponibile e accessibile, un utilizzo diffuso delle osservazioni ambientali e delle soluzioni digitali.



Destination FARM2FORK

Proposals for topics under this destination should set out credible pathways to **fair, healthy, safe, climate- and environment-friendly, resilient food systems from primary production to consumption, ensuring food and nutrition security for all within planetary boundaries in the EU and globally.** More specifically, proposals should contribute to one or more of the following impacts:

Impact 1

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

Impact 2

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

Impact 3

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





Some relevant topics for the Farm to Fork strategy

Destination 2 Sustainable food systems from farm to fork



- HORIZON-CL6-2022-FARM2FORK-01-06: Biosecurity, hygiene, disease prevention and animal welfare in aquaculture
- HORIZON-CL6-2022-FARM2FORK-01-07: Building alternative protein-friendly sustainable and healthy food environments
- HORIZON-CL6-2022-FARM2FORK-01-09: Microbiomes in food production systems
- HORIZON-CL6-2022-FARM2FORK-02-01-two-stage: Agroecological approaches for sustainable weed management



Destination 1 Biodiversity and ecosystem services



- HORIZON-CL6-2022-BIODIV-01-05: Intercropping – understanding and using the benefits of complexity in farming and value chains
- HORIZON-CL6-2022-BIODIV-02-01-two-stage: Maintaining and restoring pollinators and pollination services in European agricultural landscapes

Some relevant topics for the Farm to Fork strategy

#CL6INFODAY



Destination 4 Clean environment and zero pollution

- HORIZON-CL6-2022-ZEROPOLLUTION-01-03: EU-China international cooperation on nature-based solutions for nutrient management in agriculture



Destination 6 Resilient, inclusive, healthy and green rural communities

- HORIZON-CL6-2022-COMMUNITIES-01-02: Assessing and improving labour conditions and health and safety at work in farming



Destination 7 Governance, environmental observations and digital solutions in support of the GD

- HORIZON-CL6-2022-GOVERNANCE-01-01: Mobilisation of society to transform food systems for co-benefits
- HORIZON-CL6-2022-GOVERNANCE-01-05: Innovative tools and methods to evaluate the design and support, monitoring and implementation of effective CAP strategic plans

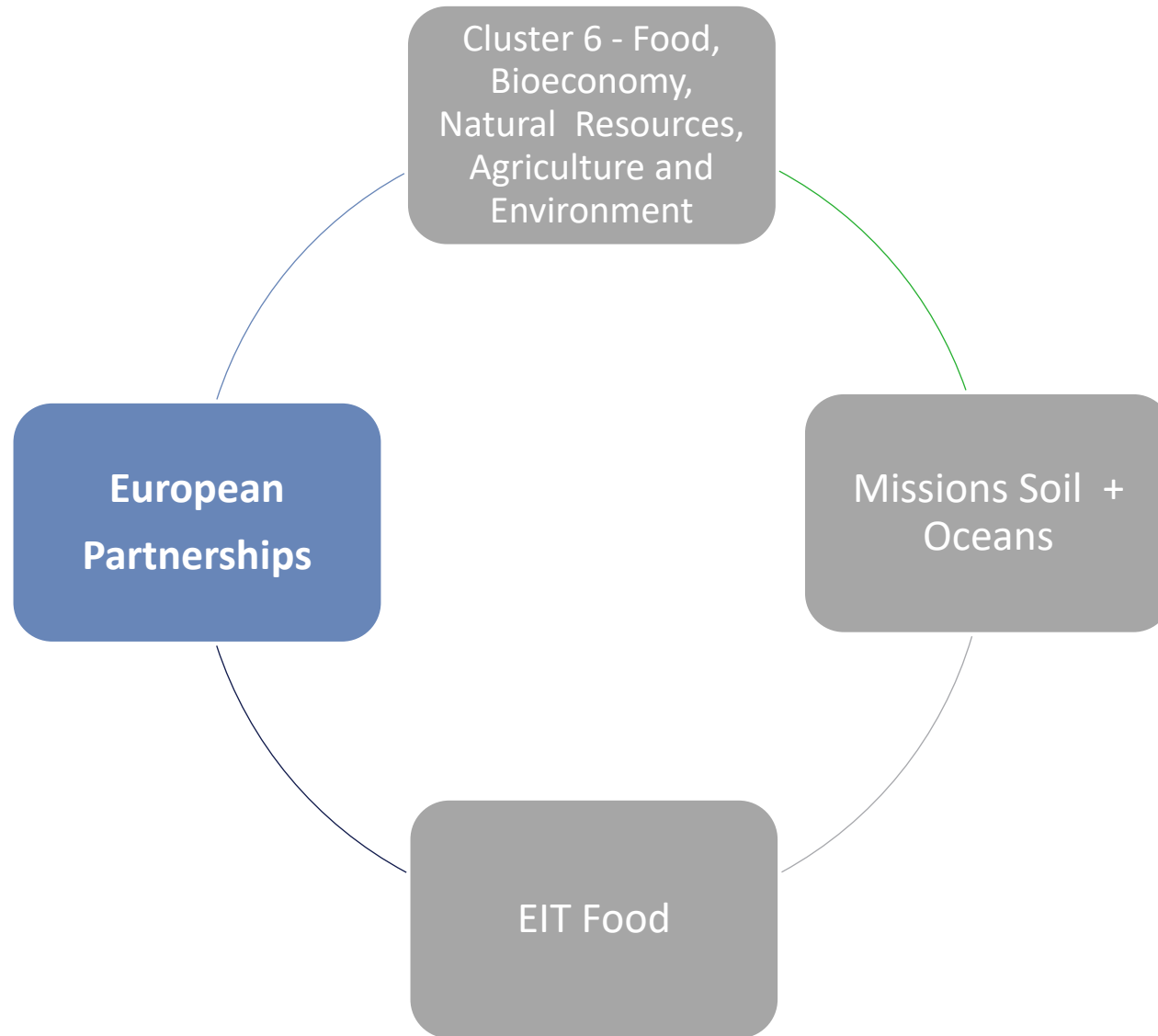


HORIZON-CL6-2022-FARM2FORK-02-04-two-stage: Smart solutions for the use of digital technologies for small- and medium-sized, farms and farm structures

Specific conditions	
<i>Expected EU contribution per project</i>	The Commission estimates that an EU contribution of around EUR 5.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
<i>Indicative budget</i>	The total indicative budget for the topic is EUR 15.00 million.
<i>Type of Action</i>	Innovation Actions
<i>Eligibility conditions</i>	The conditions are described in General Annex B. The following exceptions apply: The following additional eligibility criteria apply: The proposals must use the multi-actor approach. See definition of the multi-actor approach in the introduction to this work programme part.
<i>Technology Readiness Level</i>	Activities are expected to achieve TRL 6-7 by the end of the project – see General Annex B.
<i>Legal and financial set-up of the Grant Agreements</i>	The rules are described in General Annex G. The following exceptions apply: Beneficiaries may provide financial support to third parties. The support to third parties can only be provided in the form of grants. The maximum amount to be granted to each third party is EUR 60 000.

Expected outcomes

- Innovative solutions for the use of digital technologies (fostering soft- and hardware) tailored to the needs of small- and medium-sized farms and farm structures, including crop- and livestock production;
- Increased uptake of innovative digital technologies by farmers;
- Contribution to avoiding an increased digital divide between small and large farms;
- Increase in the environmental and economic performance of small- and medium-sized farms in the EU and Associate Countries.





Nuovo approccio ai partenariati europei: panoramica

Una nuova generazione di partenariati più ambiziosi a sostegno degli obiettivi politici dell'UE



Caratteristiche principali

- Architettura semplificata
- Approccio strutturato e trasparente all'intero ciclo di vita del partenariato
- Orientamento strategico

Co-programmed

Basati su protocolli d'intesa / accordi contrattuali; attuati in modo indipendente dai partner e dalla Commissione via Horizon Europe

Co-funded

Sulla base di un programma congiunto concordato dai partner; impegno dei partner con contributi finanziari e in natura e contributo finanziario da Horizon Europe

Institutionalised

Basati su una visione a lungo termine e sulla necessità di un'elevata integrazione; partenariati basati su Art.185 /187 del TFUE e sul regolamento EIT



Overview of 49 candidate European Partnerships

HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture, ...
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth
Transformation of health systems	High Performance Computing	Single European Sky ATM Research 3	Climate Neutral, Sustainable & Productive Blue Economy
Chemicals risk assessment	European Metrology (Art. 185/7)	Europe's Rail	Water4All
ERA for Health	AI-Data-Robotics	Connected and Automated Mobility	Animal Health & Welfare*
Rare diseases*	Photonics	(CC-IR) Batteries	Accelerating Farming Systems Transitions*
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Agriculture of Data*
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Safe & Sustainable Food System*
Pandemic Preparedness* <i>Co-funded or co-programmed</i>	Processes4Planet	Built4People	
	Global competitive space systems**	Clean Energy Transition	
		Driving Urban Transitions	

PILLAR III - Innovative Europe

EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
InnoEnergy	Innovative SMEs
Climate	
Digital	
Food	
Health	
Raw Materials	
Manufacturing	
Urban Mobility	
Cultural and Creative Industries	

CROSS-PILLARS II & III

European Open Science Cloud

- Institutionalised Partnerships (Art 185/7)
- Institutionalised Partnerships / EIT KICs
- Co-Programmed
- Co-Funded

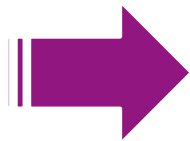
* Calls with opening dates in 2023-24

** Calls with opening dates not before 2022

Cluster 6 Co-funded partnerships in Work Programmes



CO-Funded Partnership	Year	HE expected contribution
Rescuing biodiversity to safeguard life on Earth	2021-2022	165
A climate neutral, sustainable and productive Blue Economy	2021-2022	150
European Partnership Water Security for the Planet (Water4All)	2021-2022	126
Accelerating farming systems transition: agroecology living labs and research infrastructures	2023-2024	150
Animal health: fighting infectious diseases	2023-2024	180
Environmental observations for a sustainable EU agriculture	2023-2024	100
Safe and sustainable food systems for people, planet and climate	2023-2024	175



Total budget for all co-funded partnerships around EUR 1 billion
(figures are subject to changes depending on MS commitments).

Outside the WP: Circular bio-based Europe (Joint Undertaking): EUR 1 billion

Nel Cluster 6 sono previste 8 partnership in totale:

Biodiversa: Partnership co-funded. Partecipa il MUR e il MITE. Il MIPAAF è interessato, ma non partecipa direttamente. Il budget complessivo impegnato dal MUR è 25 M€ (cash and kind) (165 M€ la Commissione). Il MITE apporterà risorse in kind.

Sustainable Blue Economy: Partnership co-funded. Partecipa il MUR che si è candidato al coordinamento della partnership (.. con la Norvegia). Il budget complessivo impegnato dal MUR è 20 M€ (cash and kind) (150 M€ la Commissione). La scadenza del **bando HE** è fissata al 20 febbraio 2022, dovrebbe partire in autunno 2022.

Water4All: Partnership co-funded. Partecipa il MUR, coinvolto il CNR e ISPRA. Il budget complessivo impegnato dal MUR è 25 M€ (126 M€ la Commissione). Sarà avviata a fine 2021 o inizio del 2022.

Circular Bio-based Europe: Partnership istituzionalizzata. Non è prevista la partecipazione diretta degli Stati membri che potranno soltanto nominare un proprio rappresentante in un organo consultivo denominato Member States Representatives Group. La Commissione investirà 1 miliardo di euro a condizione che anche gli altri partner investano almeno la stessa cifra.

Accelerating farming systems transition (agro-ecology): Partnership co-funded. Dovrebbe partire nel 2023/24. Sono interessati sia il MUR che il MIPAAF. Non è stato ancora deciso l'impegno finanziario

Animal Health: Partnership co-funded. Dovrebbe partire nel 2023/24. Sono interessati sia il MUR che il MIPAAF e il Ministero Salute. Non è stato ancora deciso l'impegno finanziario

Agriculture of data: Partnership co-funded. Dovrebbe partire nel 2023/24. Sono interessati sia il MUR che il MIPAAF. Italia, Danimarca e Germania stanno lavorando per lo sviluppo di una proposta operativa. Non è stato ancora deciso l'impegno finanziario

Safe and sustainable Food System: Partnership co-funded. Dovrebbe partire nel 2023/24. Sono interessati sia il MUR che il MIPAAF. Non è stato ancora deciso l'impegno finanziario



European Partnership Co-funded

Accelerating farming systems transition: agroecology living labs and research infrastructures

🏠 Mira a strutturare e supportare una rete di living lab e infrastrutture di ricerca che accelerino la transizione verso l'agroecologia in tutta Europa. Intende promuovere spazi per sperimentazioni a lungo termine, site-specific, multi-stakeholder e fornire pratiche pronte per l'adozione, tali da supportare gli agricoltori nella comprensione e nell'attuazione di pratiche. Punta ad ottenere, entro il 2030, un ecosistema dell'agroecologia meglio connesso e una conoscenza migliore dei processi agroecologici.

* Tipologia: cofinanziato – Avvio: 2023-24 – Partenariato precedente: nessuno

Overview of 49 candidate European Partnerships



European Partnership Co-funded

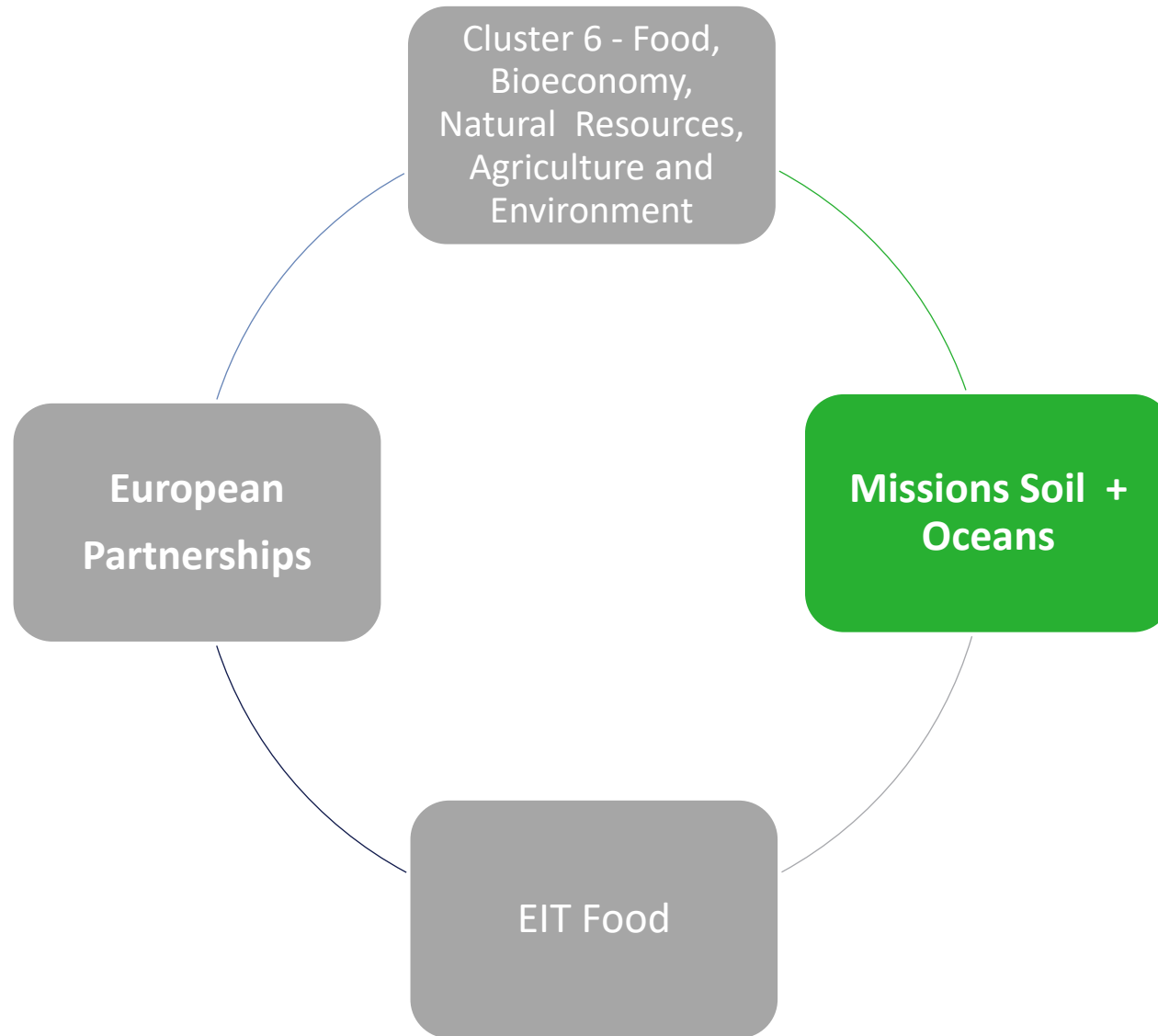
Safe and Sustainable Food Systems

Intende istituire una piattaforma e un processo globale per sostenere la necessaria transizione verso sistemi alimentari sostenibili, contribuire alla strategia Farm-to-Fork collegando programmi di ricerca e innovazione nazionali, regionali ed europei e attori dei sistemi alimentari, a beneficio della nutrizione, del clima, della circolarità e dell'intera comunità.

* Tipologia: cofinanziato – Avvio: 2023-24 – Partenariato precedente: FACCE Surplus, ICT Agri2, CoreOrganic, ERA GAS, SUSAN, ERA HDL, SusFood2

Overview of 49 candidate European Partnerships







EUROPEAN UNION

EU MISSIONS



Concrete solutions for our greatest challenges

Commission's Communication on European missions (29 September 2021) marks the official launch of the missions:

Adaptation to
Climate Change

Cancer

Climate-neutral
and Smart Cities

Restore our
Ocean and Waters

Soil Deal
for Europe



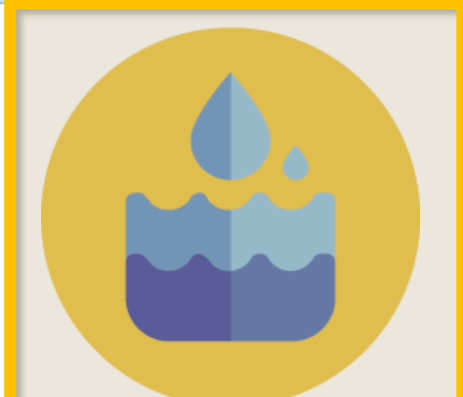
5 EU Missions areas



Adaptation to climate change, including societal transformation



Cancer



Healthy oceans, seas, coastal & inland waters



Climate-neutral & smart cities



Soil health & food



Le Mission hanno finalità e struttura completamente diverse e **non** prevedono la partecipazione degli Stati membri né un cofinanziamento. Ciascuna Mission dovrà definire alcuni obiettivi strategici e misurabili che devono essere raggiunti grazie alle ricerche finanziate da Horizon Europe. Una volta definiti questi obiettivi, la Commissione focalizzerà su di essi una parte dei normali bandi di Horizon Europe, dotandoli di un budget complessivamente pari al **10%** del Pillar 2 di HE.



5 EU Missions

What a EU mission is NOT

Missions are an entirely new approach based on **portfolios of actions** working towards broadly defined goals, not be confused with existing methods and instruments.

Missions are not the same as:

- R&I Programmes**
- R&I Partnerships**
- Focus Areas** from Horizon 2020
- Single projects or topics
- Horizon Europe **Clusters**

Implementing Missions

Missions may involve:

- Launch **specific calls** in Horizon Europe and other programmes
- Identify specific actions to change/ improve **policy context** critical for missions success
- Make use of the appropriate **partnerships**
- Mobilise **structural funds**
- Establish the appropriate **links with national programmes**
- Combine efforts with **third country**

There is no fixed budget for each mission. Article 7 of the draft HE Regulation stipulates that during the first three years of the programme, a **maximum of 10%** of the **annual budget of Pillar II** shall be programmed through specific calls for implementing the missions.



EUROPEAN UNION

EU
MISSIONS

A Soil Mission to support the Green Deal

Examples of Green Deal Targets related to soil health

By 2030

- 25% of land under organic farming
- Reduce the overall use and risk of chemical pesticides by 50% and the use of more hazardous pesticides by 50%
- Reduce fertilizer use by at least 20%
- Reduce nutrient losses by at least 50%
- Reduce by 30% microplastics released into the environment
- Reduce net greenhouse gas (GHG) emissions by at least 55% compared to 1990 levels.

By 2035

- the EU should aim to reach climate neutrality in the land use, forestry & agriculture sectors.

Mission part of:

- Farm to Fork Strategy
- EU Biodiversity Strategy for 2030
- Climate Adaptation Strategy
- Forest Strategy
- Zero Pollution Action Plan for air, water and soil
- Organic Action Plan
- Long term vision for rural areas
- Communication on carbon farming (upcoming)
- new Soil Strategy (upcoming)



EUROPEAN UNION

A Soil Deal for Europe

EU
MISSIONS

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**.



EUROPEAN UNION

EU
MISSIONS

First Work Programmes

- Horizon Europe Mission Work-Programme 2021 (deadline 20 October 2021)
Topic HORIZON-MISS-2021-SOIL-01-01: “Preparing the ground for healthy soils - building capacities for engagement, outreach and knowledge” (budget: 5€ mio). Action to identify regional “soil needs” and monitoring requirements, map existing living labs and lighthouses and help to create a one-stop shop for soil information.
- Update of Horizon Europe Mission Work Programme 2021:
 - 8 topics; budget: 62 €mio
 - 1 procurement for mission platform (3 €m); 1 indirect action with JRC as beneficiary (2 €mio)
 - to be adopted and published end of December 2021
 - deadline for submission of proposals: end of March 2022
- Mission Work Programme 2022
 - Total budget: 95 €mio
 - publication of Work Programme planned for end of April 2022
- Mission Work Programme 2023
 - Total budget: 158 €mio



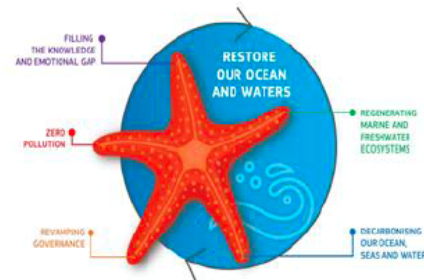
EUROPEAN UNION

EU
MISSIONS



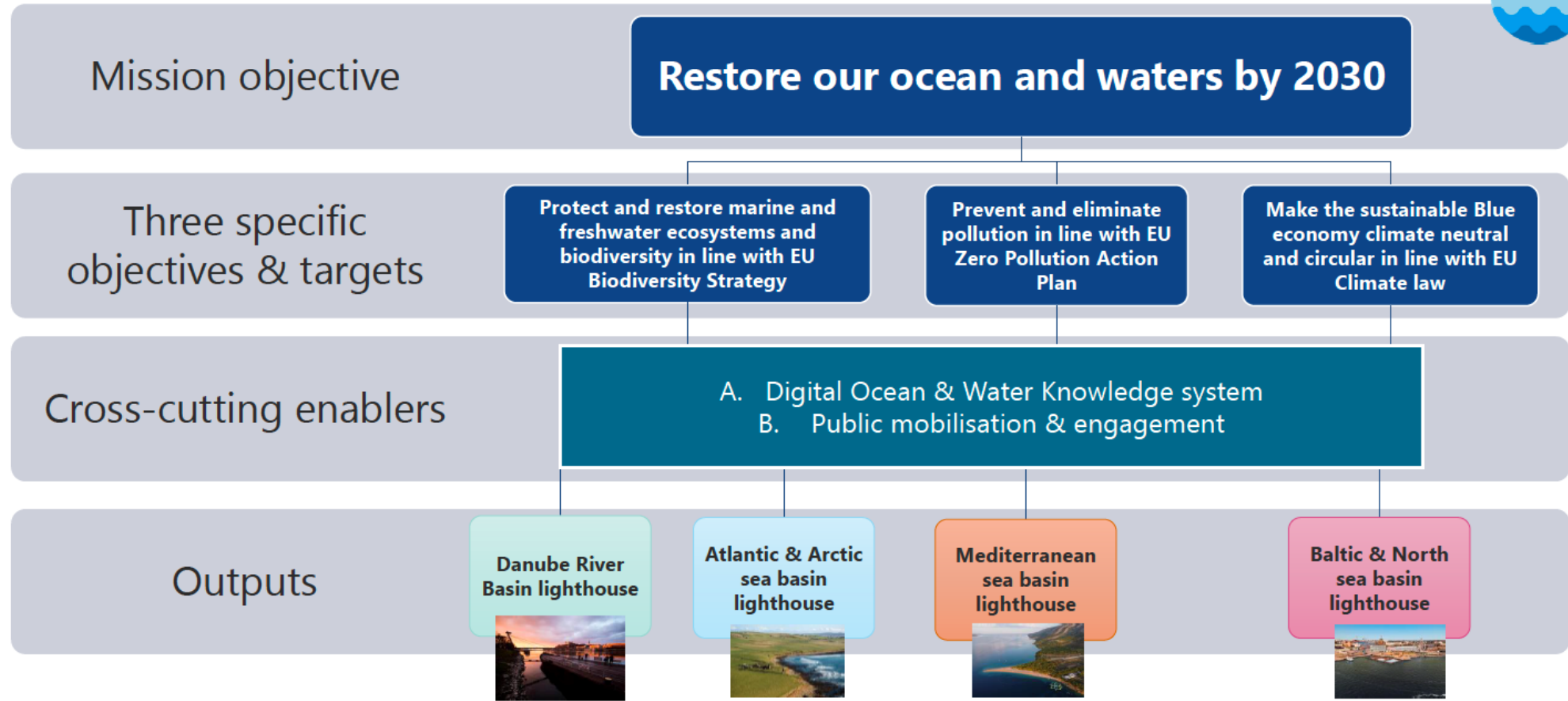
European Mission 'Restore our Ocean and Waters by 2030'

Systemic path
to restoration of the health of the ocean & waters
*as recommended by the
Mission Board in its Starfish report*





Mission Intervention Logic



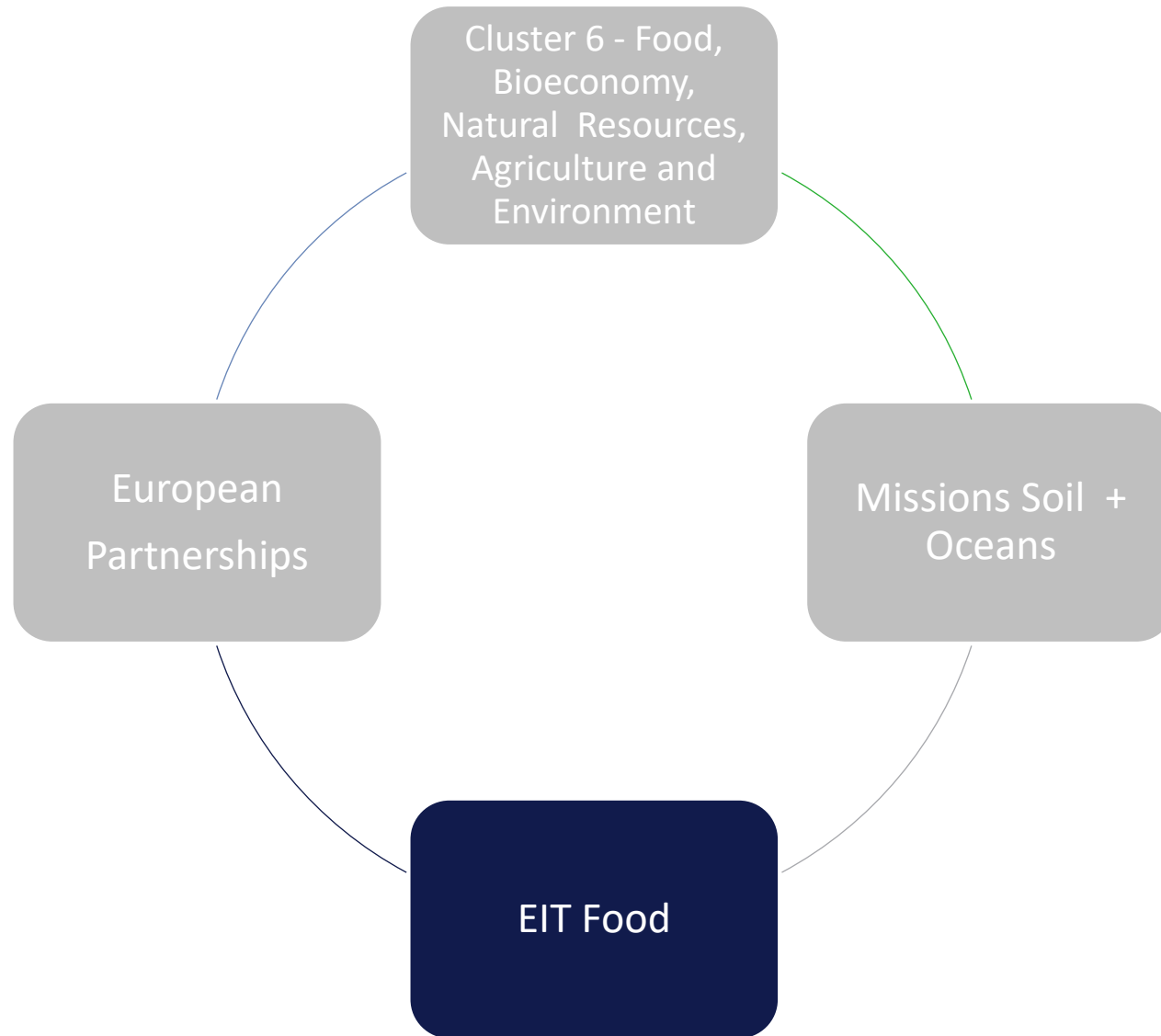


WP 2021 - Mission Ocean, seas and waters

... is taking shape...

WP 2021 Structure

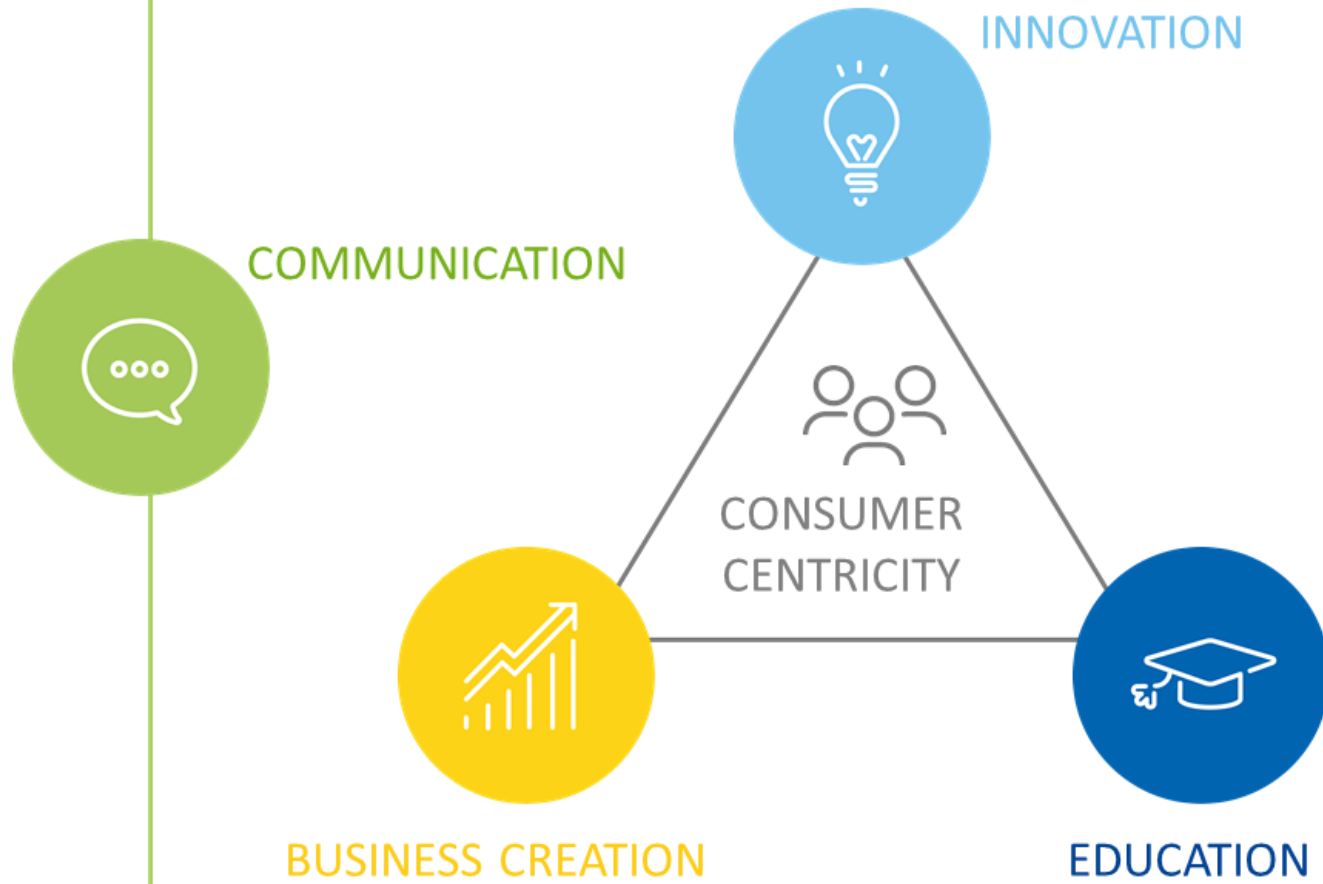
- ✓ **3 calls** addressing 3 policy objectives and specific expected impacts in its 4 sea/river basins:
 - **Protect and restore marine and freshwater ecosystems and biodiversity**
 - **Prevent and eliminate pollution of our oceans, seas and waters**
 - **Sustainable, carbon-neutral and circular Blue economy**
- ✓ **1 call** supporting **enabling activities**: digital knowledge system, public engagement, foresights and other studies
- ✓ **Other actions**: Digital twin Ocean Infrastructure; Coordination activities - «lighthouses» implementation/coordination; technical assistance; citizen's science and engagement
- ✓ **Indicative budget 2021**: EUR 114 mio





Mission

EIT Food's mission is to catalyse the **transformation** of the food system and effectively **meet the global food sector demands** of present and future generations by building, managing and empowering a sustainable and trusted **multi-stakeholder community** with a **central role for the consumer**.





EIT Food Innovation programmes



EIT Food Assistant

Empower consumers to self-monitor lifestyle and health performance and enable informed healthier decisions and sustainable consumption habits



Your Fork2Farm

Consumer-centric “fork-to-farm” approaches to deliver personalised healthy food at economies-of-scale associated with mass production



The Web of Food

Digitalisation of the food system to boost a demand-driven, resource-efficient food production and build trust by increasing traceability and auditability of food quality, safety and authenticity



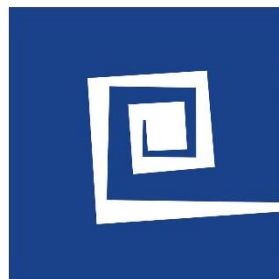
The Zero Waste Agenda

Transforming today’s linear “produce-use-dispose” model into a circular bio-economy centered around the consumer



Business Creation programmes





APRE

Agenzia per la Promozione
della Ricerca Europea

Email: segreteria@apre.it

Tel. +39 06 48 93 9993

www.apre.it



GRAZIE!

Serena

borgna@apre.it