

European
Innovation
Council



Backing visionary entrepreneurs

Horizon Europe framework
Cluster 5 of Pillar II
European Innovation Council

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Programme manager energy and green tech

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- **Horizon Europe e Cluster 5**

Intervention logic: Legal base - strategy plan – work programme

- **European Innovation Council**

pathfinder, transition, accelerator and open calls

- **Ruolo dei Programme Manager in EIC**

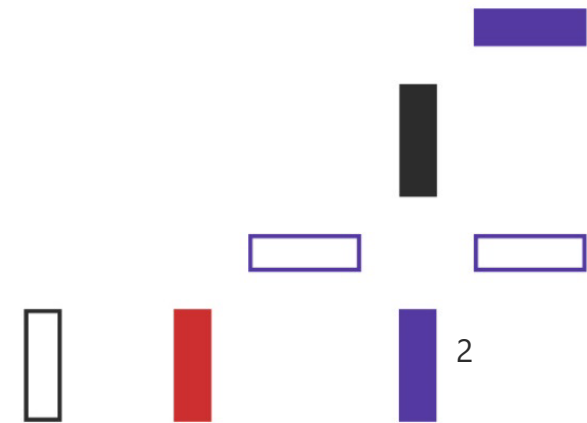
proactive portfolio management, scientific intelligence, VISION and call writing, innovation deals, interaction with innovation ecosystem

- **Opportunità di partecipazione**

valutatori, coach, esperti, EIC advisory board open call

- **Strategie per facilitare le possibilità di successo**

Policy knowledge, grant office , engage with POs



HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

Exclusive focus on defence research & development


Research actions

Development actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications

**Pillar I
EXCELLENT SCIENCE**




European Research Council

Marie Skłodowska-Curie

Research Infrastructures

**Pillar II
GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS**




Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre

**Pillar III
INNOVATIVE EUROPE**



European Innovation Council

European Innovation Ecosystems

European Institute of Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence Reforming & Enhancing the European R&I system

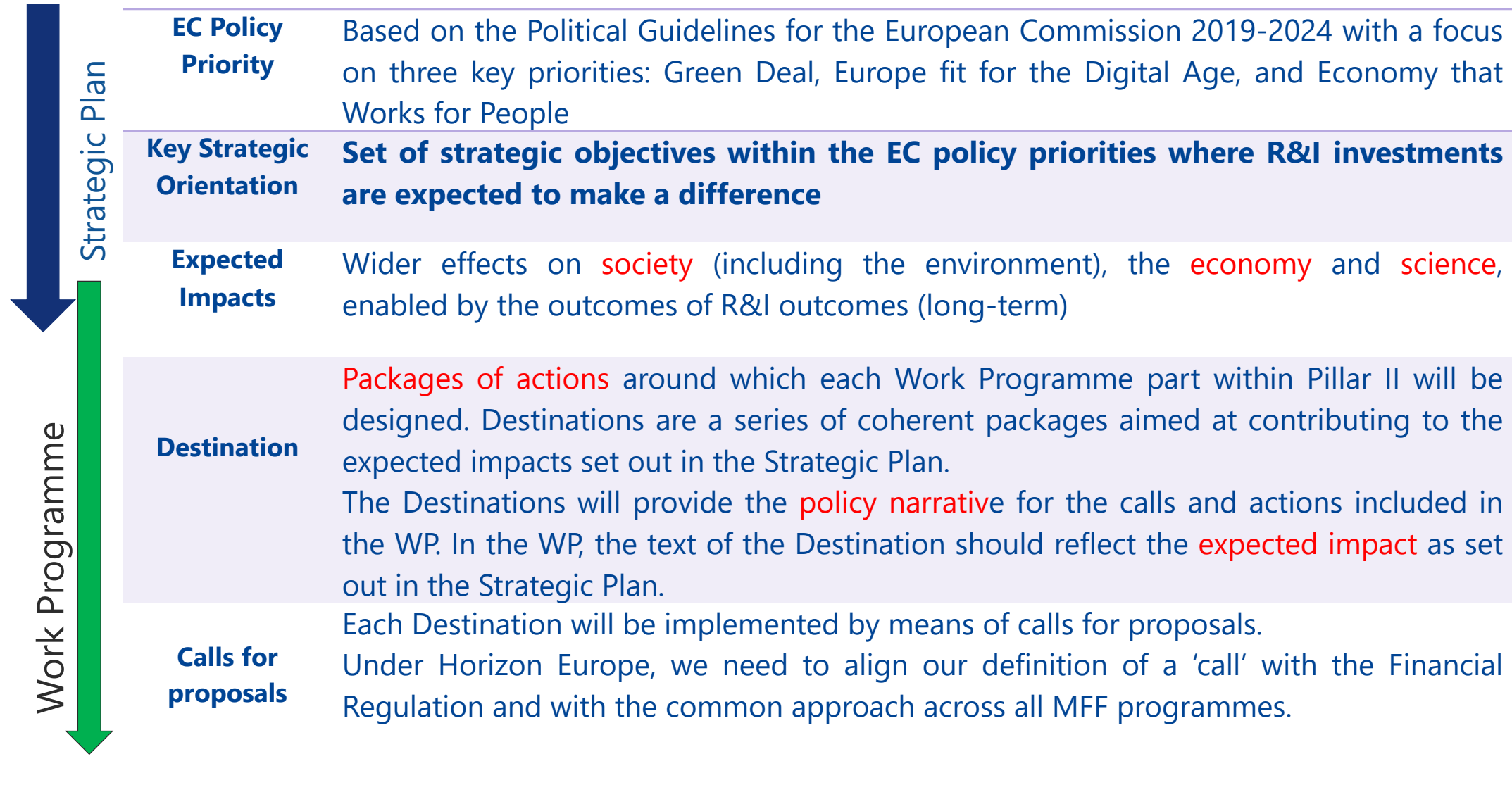
Fusion

Fission

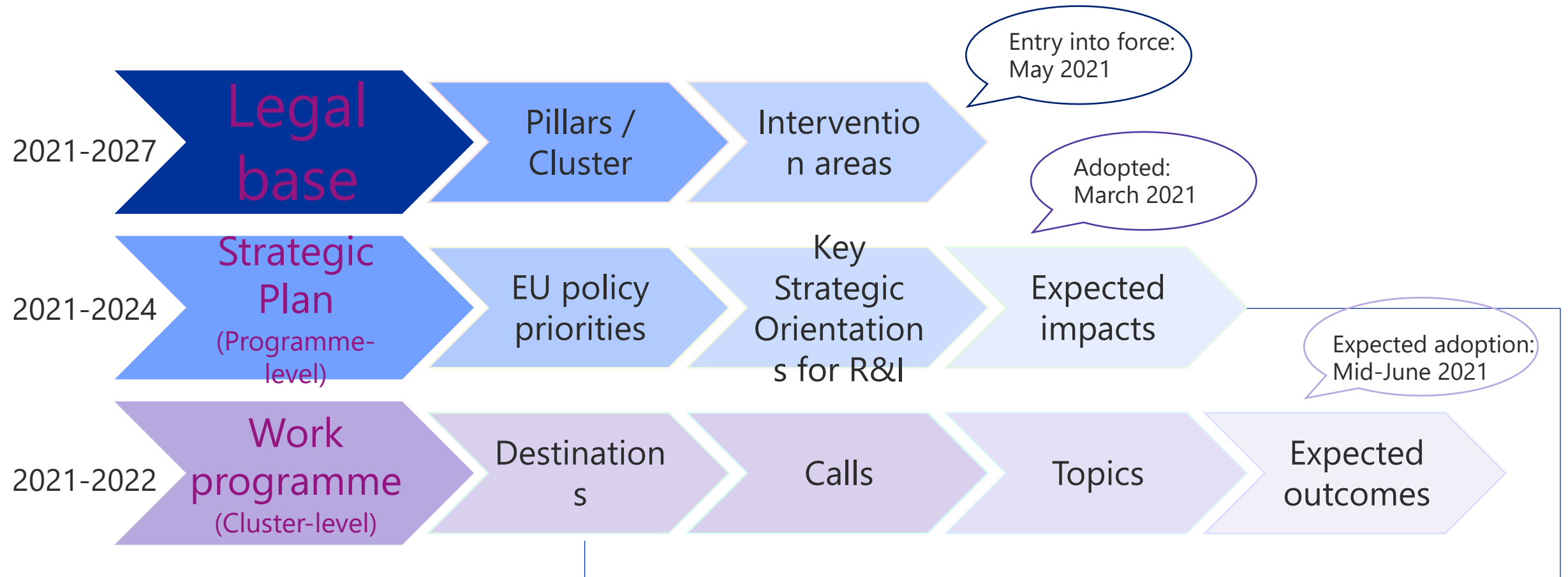
Joint Research Center

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

Horizon Europe – Impact logic



Programme intervention logic



EU Policy priorities

European Green Deal

- Climate Action; Clean Energy; Sustainable Mobility; Eliminating pollution; Building and renovating; Biodiversity; Sustainable Industry

A Europe fit for the digital age

- Artificial Intelligence; European data strategy; European Industrial Strategy; Cybersecurity

An economy that works for the people

- Internal market; Jobs, Growth and investment

Promoting our European way of life

- European Security Union; European Health Union

A stronger Europe in the world

- International partnerships; Trade policy; EU Foreign policy

A new push for European Democracy

- Strategic foresight; Future of Europe

Recent Commission initiatives:

Climate Action

- EU Climate Law (EU climate neutral by 2050)
- 2030 Climate Target Plan (55% GHG reduction by 2030)
- Make sectoral legislation 'fit for 55'
- EU Climate Adaptation Strategy
- Zero Pollution Action Plan

Energy

- EU Strategy for Energy System Integration
- Hydrogen strategy
- Renovation wave for Europe
- Offshore renewable energy

Mobility

- Sustainable and Smart Mobility Strategy

Research and Innovation

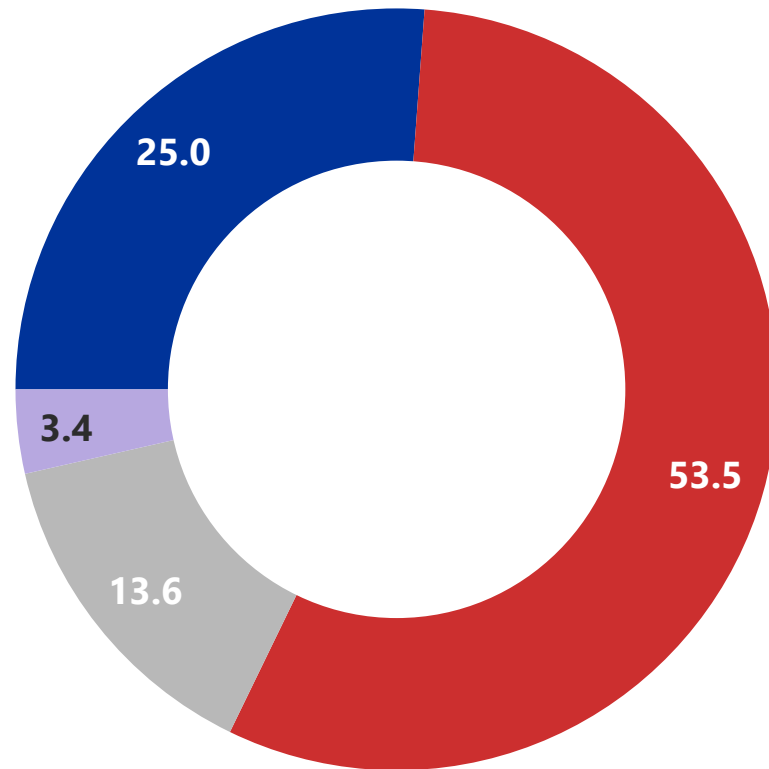
- A new European Research Area

KEY Strategic Orientations

- **A: Promoting an open **strategic autonomy** by leading the development of **key digital and enabling technologies, sectors and value chains** to accelerate and steer the digital and green transitions through human-centred technologies and innovations;**
- **B: Restoring Europe's **ecosystems and biodiversity**, and managing sustainably natural resources to ensure food security and a clean and healthy environment;**
- **C: Making Europe the first **digitally led circular, climate-neutral and sustainable economy** through the transformation of its mobility, energy, construction and production systems;**
- **D: Creating a **more resilient, inclusive and democratic European society**, prepared and responsive to threats and disasters, addressing inequalities and providing high-quality health care, and empowering all citizens to act in the green and digital transitions**

Horizon Europe Budget: €95.5 billion (2021-2027)

(including €5.4 billion from NGEU – Next Generation Europe – programme of EU for Recovery from COVID-19 crisis)



Political agreement December 2020 *€ billion in current prices*

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA

Lessons Learned

from Horizon 2020 Interim Evaluation



Support breakthrough innovation



Create more impact through mission-orientation and citizens' involvement



Rationalise partnerships' landscape



Reinforce openness



Strengthen international cooperation



Encourage participation

Key Novelties

in Horizon Europe



European Innovation Council



EU Missions



New approach to partnerships



Open science policy



Extended association possibilities



Spreading Excellence



Institutionalised European Partnerships in the portfolio

PILLAR II - Global challenges & European industrial competitiveness

PILLAR III - Innovative Europe

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

CROSS-PILLARS II AND 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

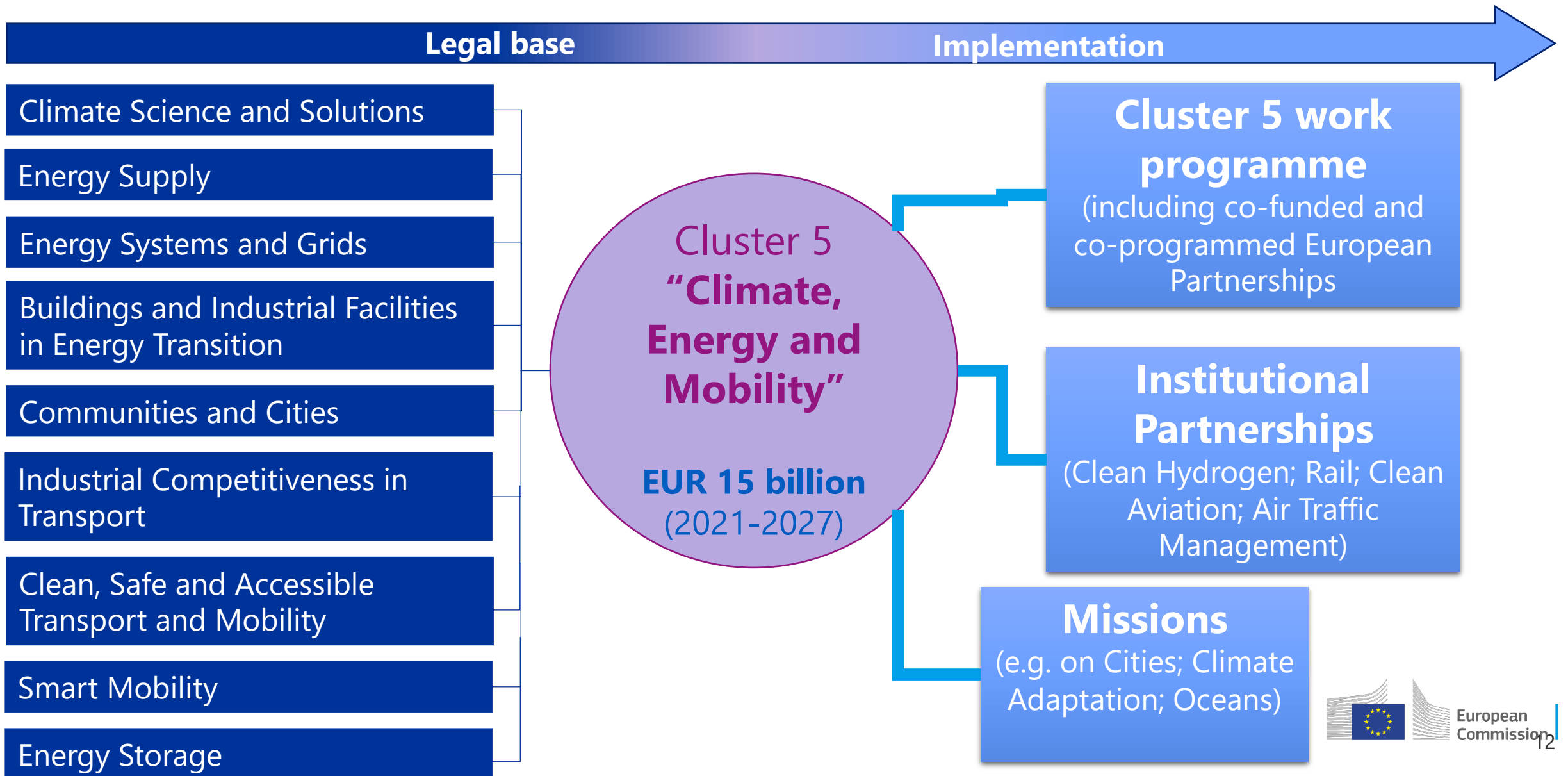


CLIMATE, ENERGY AND MOBILITY

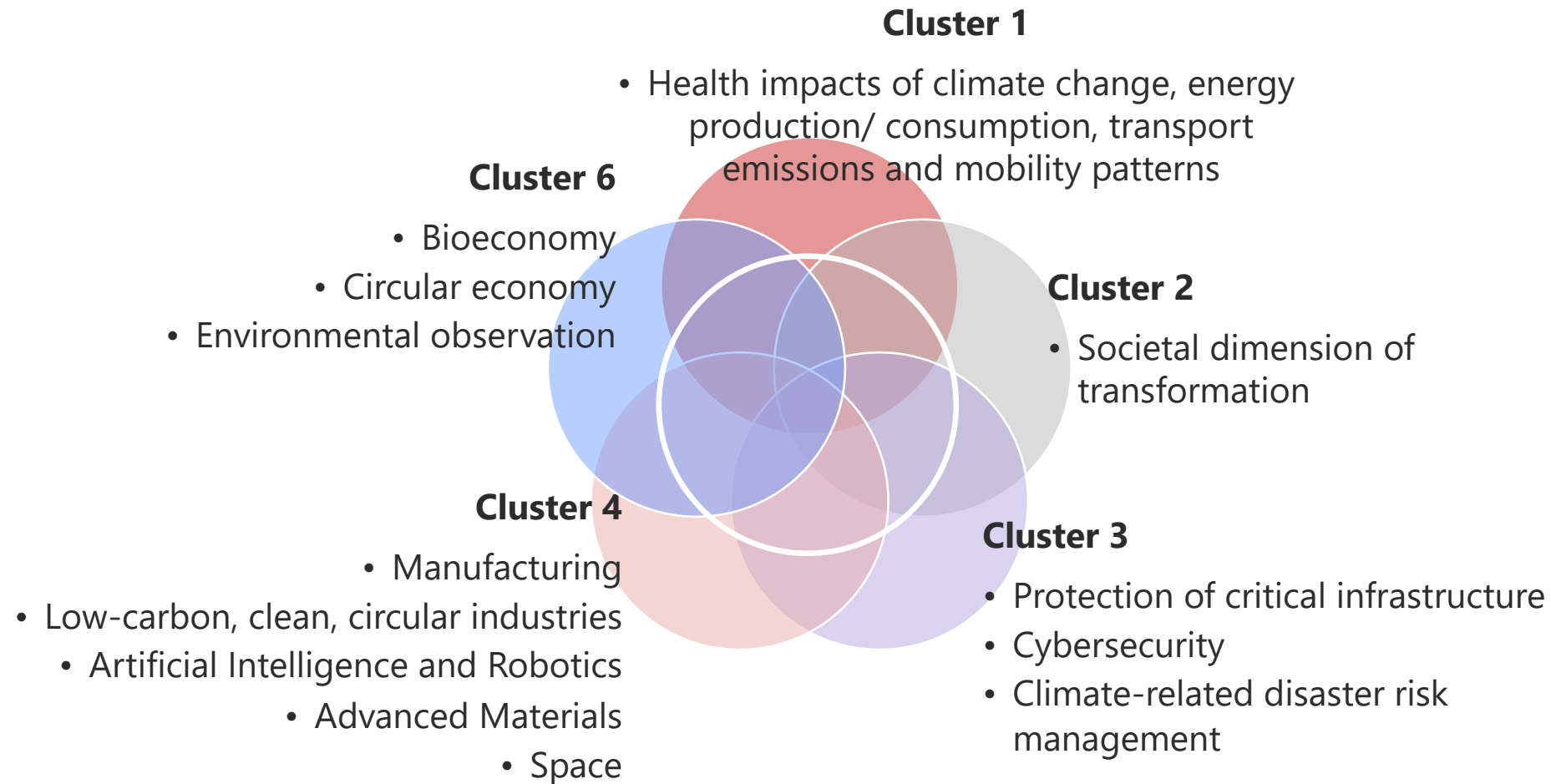
Cluster 5



Cluster 5 - overview



Cluster 5 – Links to other clusters



Cluster 5 Partnerships

Institutional Partnerships

- Transforming Europe's rail system
- Integrated Air Traffic Management
- Clean Aviation
- Clean Hydrogen

Co-funded Partnerships

- Driving urban transitions to a sustainable future (DUT)
- Clean Energy Transition

Co-programmed Partnerships

- Built4People | People-centric sustainable built environment
- Towards zero-emission road transport (2ZERO)
- Batteries: Towards a competitive European industrial battery value chain for stationary applications and e-mobility
- Zero-emission waterborne transport
- Connected, Cooperative and Automated Mobility (CCAM)

CLIMATE, ENERGY AND MOBILITY



Cluster 5

Work programme 2021-2022



Cluster 5 – Expected impacts

Transition to a climate-neutral and resilient society and economy enabled through **advanced climate science**, pathways and responses to climate change (mitigation and adaptation)

More efficient, clean, sustainable, secure and competitive **energy supply** through new solutions for smart grids and energy systems based on more performant renewable energy solutions

Clean and sustainable transition of the energy and transport sectors towards climate neutrality facilitated by innovative **cross-cutting solutions**

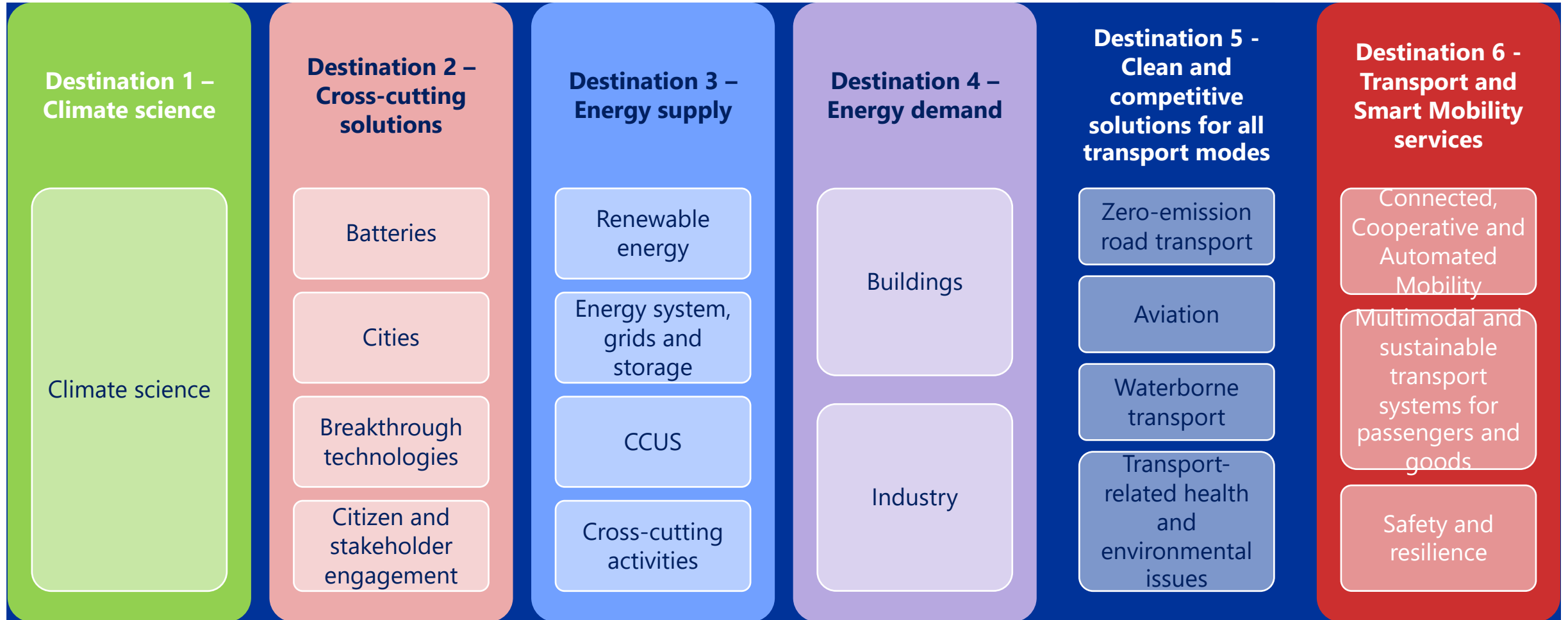
Efficient and sustainable **use of energy**, accessible for all is ensured through a clean energy system and a just transition



Towards **climate-neutral and environmental friendly** mobility through clean solutions across all transport modes while increasing global **competitiveness** of the EU transport sector

Safe, seamless, smart, inclusive, resilient, climate neutral and sustainable **mobility systems** for people and goods

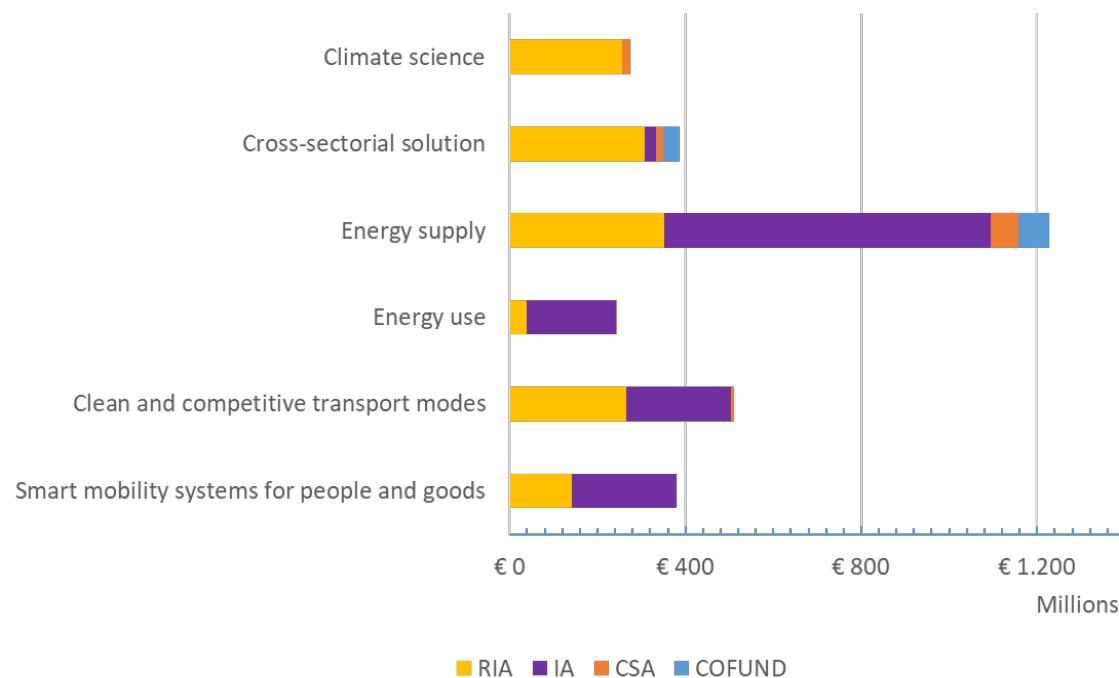
Cluster 5 Work programme - overview



Cluster 5 Work programme - overview

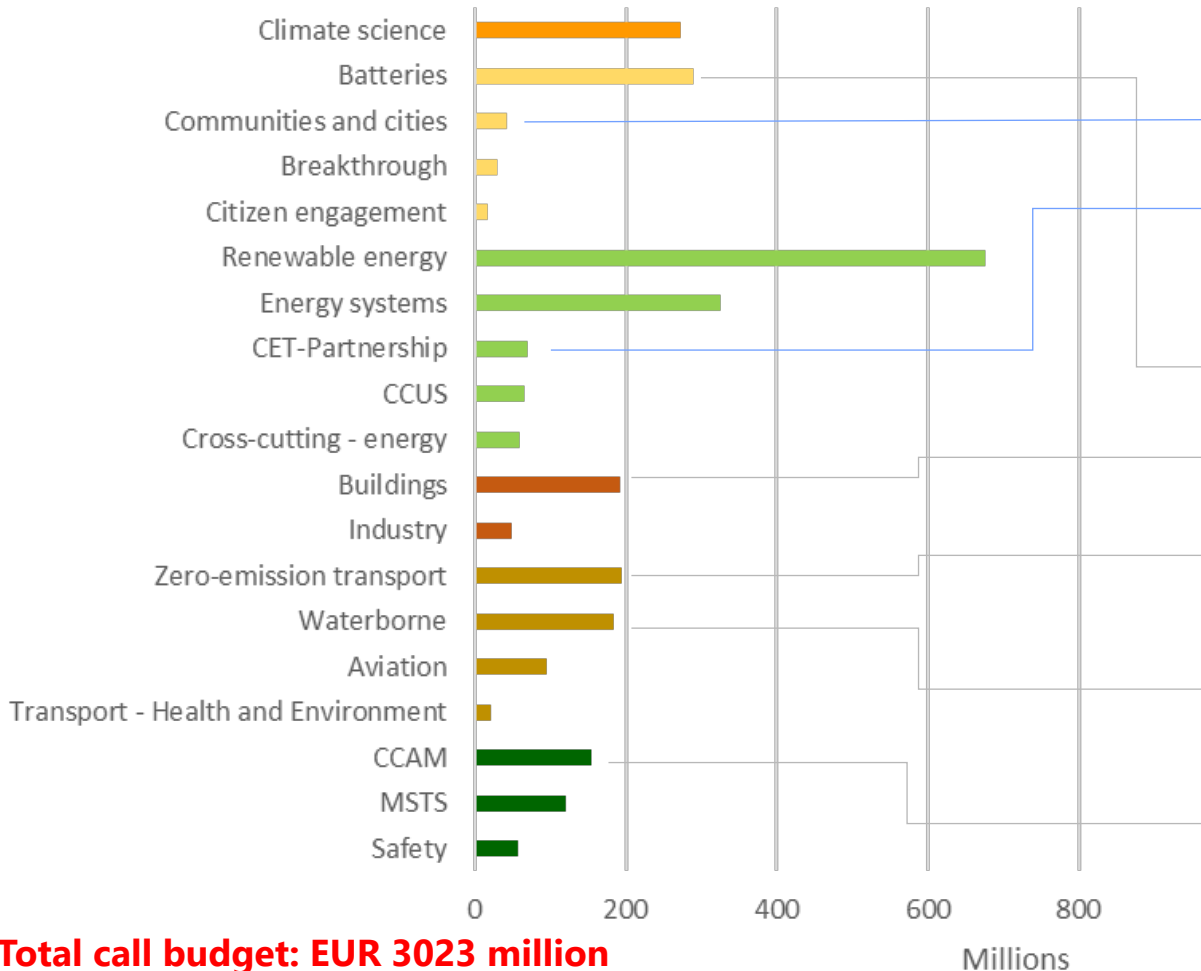
	Budget (Mio €)	Share of total	Number of topics	Share of total
Climate science	274.0	9%	17	9%
Cross-sectorial solution	387.5	13%	25	13%
Energy supply	1226.3	40%	67	36%
Energy use	244.0	8%	18	10%
Clean and competitive transport modes	511.0	17%	31	17%
Smart mobility systems for people and goods	380.0	13%	28	15%
TOTAL	3022.8		186	

EU contribution per Destination and type of action (2021-2022, in Mio EUR)



Cluster 5 Work programme - budgets

EU contribution per thematic area
(2021-2022, in Mio EUR)



58 out 186 topics (31% of all) implement European Partnerships (2021-2022)

Co-funded Partnerships:

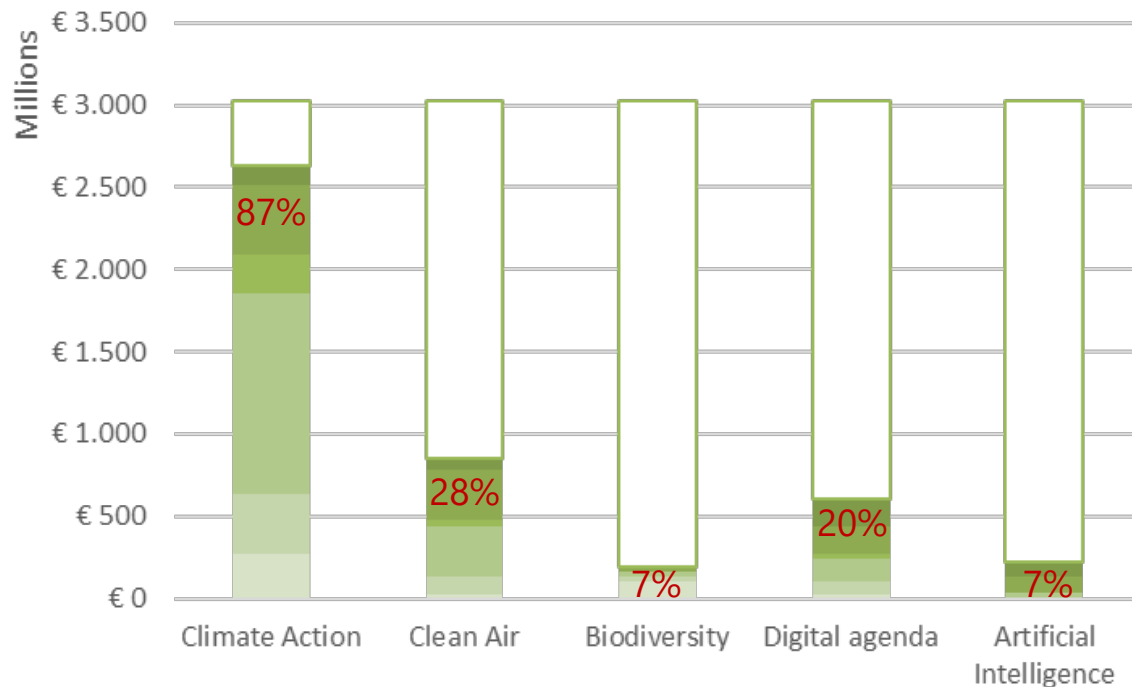
- **Driving Urban Transition:** 1 topic (37 M€ for 2021-2022)
- **Clean Energy Transition:** 1 topic (70 M€ for 2021-2022)

Co-programmed Partnerships:

- **Batteries:** 17 topics (EUR 293 million)
- **Built4People:** 8 topics (EUR 124 million)
- **Towards Zero-Emission Road Transport:** 8 topics (EUR 199 million)
- **Zero-Emission Waterborne Transport:** 12 topics (EUR 167.5 million)
- **Connected, Cooperative and Automated Mobility:** 11 topics (EUR 162 million)

Cross-cutting priorities

Contribution of cluster 5 topics to cross-cutting policy priorities
(percentage of total call budget; WP 2021-2022)



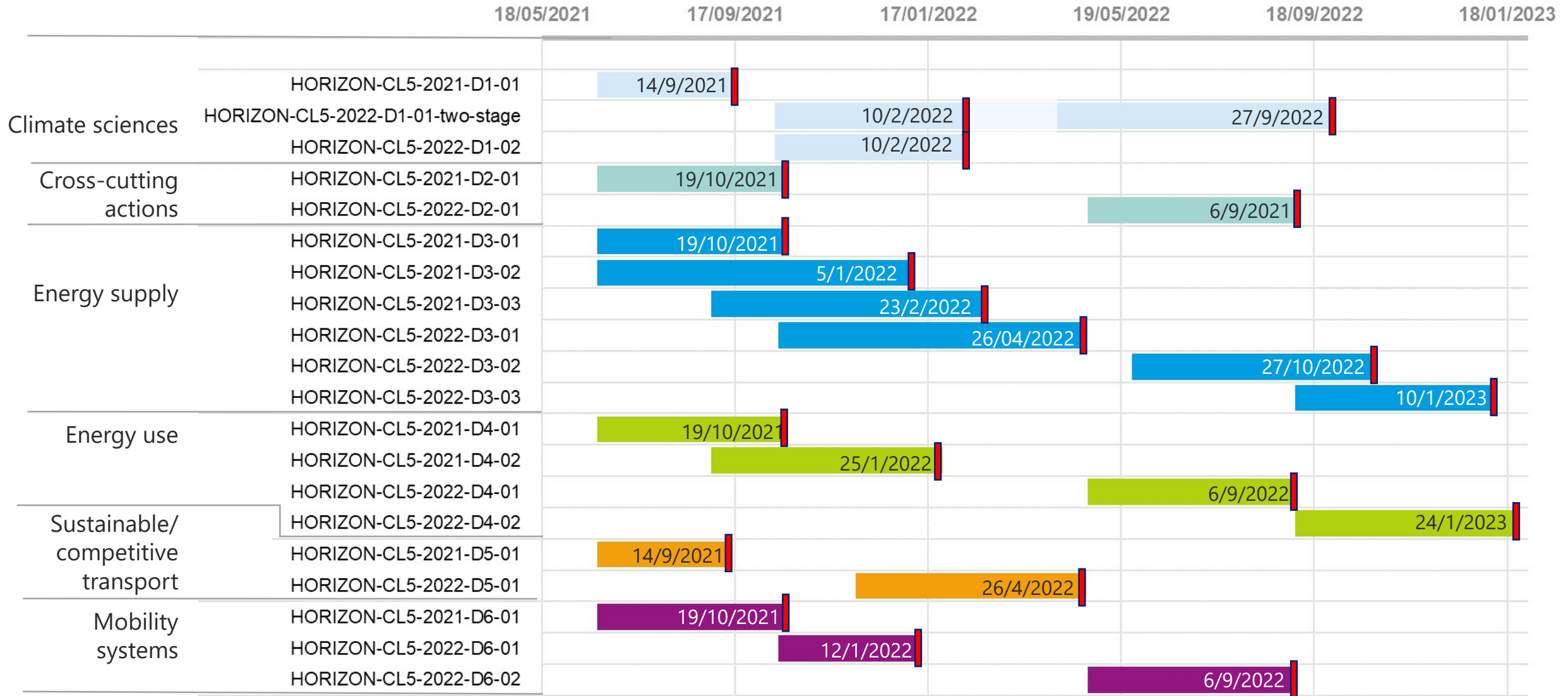
Budget share dedicated to climate action in other HE parts:

- Cluster 1: 300 M€ (17%)
- Cluster 2: 30 M€ (7%)
- Cluster 3: 40 M€ (10%)
- Cluster 4: 1235 M€ (41%)
- **Cluster 5: 2630 M€ (87%)**
- Cluster 6: 1345 M€ (72%)

Budget share dedicated to digital agenda in other HE parts:

- Cluster 1: 600 M€ (34%)
- Cluster 2: 95 M€ (22%)
- Cluster 3: 220 M€ (54%)
- Cluster 4: 1840 M€ (61%)
- **Cluster 5: 605 M€ (20%)**
- Cluster 6: 375 M€ (20%)

Cluster 5 call structure



Destination 1- Climate sciences and responses for the transformation towards climate neutrality



Objectives

- **Advancing knowledge and providing solutions** in earth system science; pathways to climate neutrality; climate change adaptation including climate services; social science for climate action; and better understanding of climate-ecosystems interactions.
- Contributing substantially to key **international assessments** such as those of the Intergovernmental Panel on Climate Change (IPCC) or the European Environment Agency (e.g. European environment state and outlook reports, SOER).
- Strengthening the **European Research Area** on climate change.

Increasing the transparency, robustness, trustworthiness and practical usability of the knowledge base on

Issues covered in topics 2021-2022

- Earth system science, analysis of pathways leading to carbon neutrality, adaptation and climate services, social sciences to tackle climate change, climate eco-system interactions

Implementation

- 1 call in 2021 – 9 topics (total budget: 136 M€)
- 2 calls in 2022 – 8 topics (total budget: 138 M€)

Destination 1 – Climate science

Objectives

- **Advancing knowledge and providing solutions** in earth system science
- Contributing substantially to key **international assessments**, e.g. Intergovernmental Panel on Climate Change (IPCC), European Environment Agency
- Strengthening the **European Research Area** on climate change
- Increasing the **transparency, robustness, trustworthiness and practical usability** of the knowledge base on climate change for use by policy makers, practitioners, other stakeholders and citizens

Issues covered in topics 2021-2022

- Earth system science, analysis of pathways leading to carbon neutrality, adaptation and climate services, social sciences to tackle climate change, climate eco-system interactions

Implementation

- 1 call in 2021 – 9 topics (total budget: 136 M€)
- 2 calls in 2022 – 8 topics (total budget: 138 M€)



Destination 2- Cross-sectoral solutions for the climate transition

Batteries



- Supporting creation of a **competitive, circular, and sustainable European battery manufacturing value chain**
- Improvement of **technological performance** to increase application user attractiveness
- **1 call in 2021** (7 topics, 160 M€); **1 call in 2022** (10 topics, 133 M€)
- **Issues:** Raw material processing, advanced materials, manufacturing processes, battery systems, recycling technologies, coordination activities
- Implementing **Batteries**

Communities and cities



- Increased **efficiency** of Europe's cities' and communities' **energy, resource use and mobility patterns** and cities' and communities' overall **sustainability**, thereby improving their **climate-resilience** and **attractiveness** to businesses and citizens in a holistic fashion.
- Implemented also through co-funded Partnership **Driving Urban Transition**
- **2 topics** in 2021-2022 (42 M€)
- Bulk of topics to be included in **WP update**, once Implementation Plan of cities

Breakthrough technologies

- Nurturing the development of emerging technologies with **high potential** to enable **zero-greenhouse gas** and **negative emissions** in energy and transport.
- **4 topics in 2021** (35 M€)
- **Issues:** Methane cracking, non-CO2 greenhouse gases removal, direct atmospheric carbon capture and conversion, bottom-up

Citizen and stakeholder engagement

- Facilitating the transformation to a climate neutral society through more effectively **engaging and empowering citizens** to participate in the transition, from planning to decision-making and implementation
- **4 topics in 2021** (17.5 M€)
- Issues: just transition, SSH platform, Transition Super Labs, NCP-network

Destination 2 - Emerging breakthrough technologies and climate solutions

Objectives

- Emergence of **unanticipated technologies** enabling emerging zero-greenhouse gas and negative emissions in energy and transport;
- Development of **high-risk/high return** technologies to enable a transition to a net greenhouse gas neutral European economy;
- Explore environmental, social and economic **impacts**,

Issues covered in topics 2021-2022

- Methane cracking, non-CO2 greenhouse gases removal, direct atmospheric carbon capture and conversion, bottom-

Implementation

- **2021**: 4 topics (total budget: 35 M€)



Destination 2 - Citizens and stakeholder engagement

Objectives

- A better understanding of the **societal implications** of the climate transition, including its distributional repercussions;
- More effective **policy interventions**, co-created with target constituencies and building on high-quality policy advice;
- Greater **societal support** for transition policies and

Issues covered in topics 2021-2022

- Just transition, SSH platform, Transition Super Labs, NCP-network

Implementation

- **2021**: 4 topics (total budget: 17.5 M€)



Destination 2 – Communities and cities

Objectives

- **Increased efficiency** of Europe's cities' and communities' **energy, resource use and mobility patterns** and cities' and communities' **overall sustainability**, thereby improving their **climate-resilience and attractiveness** to businesses and

Issues covered in topics 2021-2022

- European co-funded Partnership; CIVITAS network
- Bulk of topics to be included in **WP update**, once Implementation Plan of cities mission is ready

Implementation

- Implemented also through co-funded Partnership **Driving Urban Transition**
- **2 topics** in 2021-2022



Destination 3- Sustainable, secure and competitive energy supply

Renewable energy

- Fostering **European global leadership** in affordable, secure and sustainable renewable energy technologies and services by improving their **competitiveness** in global **value chains** and their position in growth markets, notably through the **diversification** of the renewable services and technology portfolio
- **20 topics in 2021** (335 M€)
- **24 topics in 2022** (368 M€)
- **Issues:** disruptive technologies, cost reduction, improved efficiency, de-risking, integration, export potential, sustainability, market uptake

Energy system, grids and storage

- Ensuring cost-effective **uninterrupted** and **affordable** supply of energy to households and industries in a scenario of **high penetration of variable renewables** and other new low carbon energy supply.
- Managing smart and cyber-secure **energy grids** and optimisation the interaction between producers, consumers, networks, infrastructures and vectors
- **10 topics in 2021** (152 M€)
- **7 topics in 2022** (181 M€)
- **Issues:** energy sector integration, energy system planning and operation, active consumer, markets and energy communities, digitization

Carbon Capture, Utilization and Storage

- **Accelerating** the development of Carbon Capture, Use and Storage (CCUS) as a CO₂ emission mitigation option in **electricity generation** and **industry applications** (including also conversion of CO₂ to products)
- **2 topics in 2021** (32 M€)
- **1 topic in 2022** (58 M€)
- **Issues:** CCUS hubs, application in industry, CO₂ capture

Cross-cutting

- Geological services (2021; CSA; 20 M€)
- Stakeholder support (2021; CSA; 9.8 M€)
- Clean Energy Transition co-funded Partnership (2021-2027; 210 M€ in total)



Destination 3 – Renewable energy

Objectives

- Fostering European **global leadership** in affordable, secure and sustainable renewable energy technologies and services by improving their **competitiveness** in global value chains and their position in growth markets, notably through the **diversification of the renewable services and technology**

Issues covered in topics 2021-2022

- Solar energy, wind energy, biofuels, geothermal energy, hydro energy, CHP, energy carriers
- Disruptive technologies, cost reduction, improved efficiency, de-risking, integration, export potential, sustainability, market uptake

Implementation

- **2021: 20 topics** (total budget: 335 M€)
- **2022: 24 topics** (total budget: 368 M€)



Destination 3 – Energy systems, grids and storage

Objectives

- Ensuring cost-effective **uninterrupted and affordable supply of energy** to households and industries in a scenario of **high penetration of variable renewables** and other new low carbon energy supply.
- Managing **smart and cyber-secure energy grids** and optimisation the **interaction** between producers, consumers, networks, infrastructures and vectors.

Issues covered in topics 2021-2022

- Energy sector integration; energy system planning and operation; grid resilience and reliability; power electronics; active consumer; markets and energy communities; digitization; thermal energy storage

Implementation

- **2021: 10 topics** (total budget: 152 M€)
- **2022: 7 topics** (total budget: 181 M€)



Destination 3 – Carbon Capture, Utilization and Storage (CCUS)

Objectives

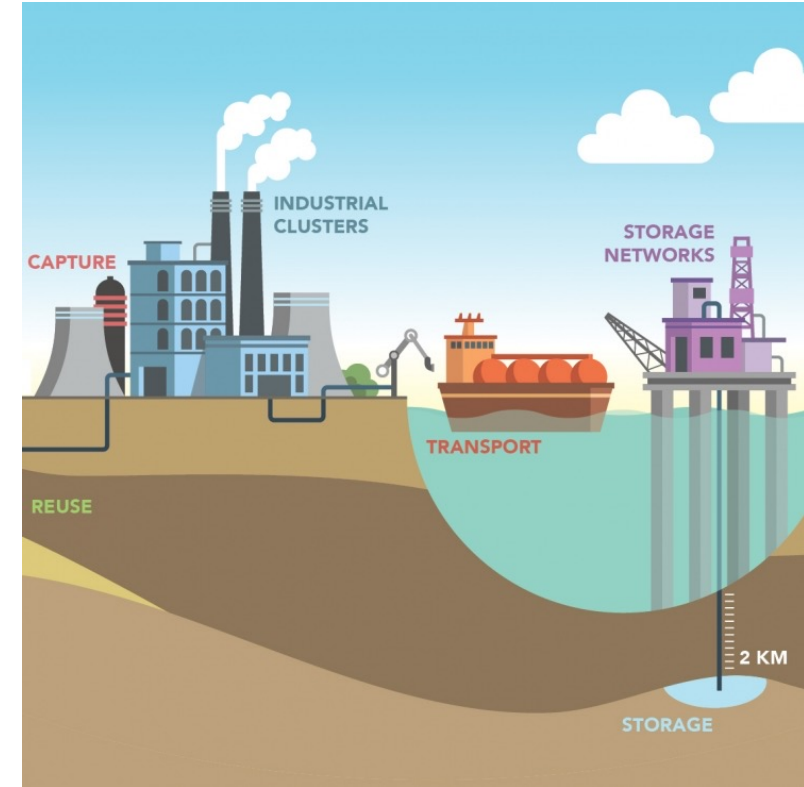
- Accelerating the development of Carbon Capture, Use and Storage (CCUS) as a CO2 emission mitigation option in **electricity generation and industry applications** (including also conversion of CO2 to products)

Issues covered in topics 2021-2022

- CCUS hubs, application in industry, CO2 capture

Implementation

- **2021: 2 topics** (total budget: 32 M€)
- **2022: 1 topic** (total budget: 58 M€)



Destination 3 – Cross-cutting actions

Issues covered in topics 2021-2022

- **Clean Energy Transition co-funded Partnership:** 70 M€ (2021-2022)
- **Support for stakeholder associations:** 9.8 M€ (2021)
- **Geological services:** 20 M€ (2021)



Destination 4 - Efficient, sustainable and inclusive energy use

Buildings

- **Technological and socio-economic breakthroughs** for achieving climate neutrality and the transition to zero pollution of the building stock by 2050, based on **inclusive and people-centric R&I**
- **6 topics in 2021** (74 M€)
- **10 topics in 2022** (140 M€)
- **Issues:** Energy performance assessment and monitoring, industrialization of deep renovation, integrated technology solutions, prefabricated renovation packages, demand response, renewable intensive homes, smart buildings, design, materials, sustainability of life-cycle
- Implementing co-programmed Partnership “People-centric, Sustainable Built Environment” (Built4People)

Industry

- Increased energy efficiency in industry and **reducing industry’s Greenhouse Gas (GHG) and air pollutant emissions** through recovery, upgrade and/or conversion of industrial excess (waste) heat and through electrification of heat generation
- **2 topics in 2021** (30 M€)
- **Issues:** heat upgrade technologies, industrial excess (waste) Heat-to-Power conversion



Destination 4 – Highly energy-efficient and climate neutral EU building stock

Objectives

- Technological and socio-economic breakthroughs for achieving **climate neutrality** and the transition to **zero pollution** of the **building stock by 2050**, based on **inclusive and people-centric R&I**

Issues covered in topics 2021-2022

- Energy performance assessment and monitoring, industrialization of deep renovation, integrated technology solutions, prefabricated renovation packages, demand response, renewable intensive homes, smart buildings, design, materials, sustaina

Implementation

- **2021: 6 topics** (total budget: 74 M€)
- **2022: 10 topics** (total budget: 140 M€)

Many topics contribute to the **European Partnership “People-centric, Sustainable Built Environment (Built4People)”**

(https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-partnerships-horizon-europe/candidates-climate-energy-and-mobility_en)



Destination 4 – Industrial facilities in the energy transition

Objectives

- Increased energy efficiency in industry and reducing industry's Greenhouse Gas (GHG) and air pollutant emissions through **recovery, upgrade and/or conversion of industrial excess (waste) heat** and through **electrification of heat generation**.

Issues covered in topics 2021-2022

- Heat upgrade technologies; heat-to-power conversion; high temperature thermal storage

Implementation

- **2021: 2 topics** (total budget: 30 M€)
- **2022: 2 topics** (total budget: 18 M€)



Destination 5 - Clean and competitive solutions for all transport modes

Zero-emission road transport

- Transforming road transport to **zero-emission mobility** through a world-class European research and innovation and industrial system, ensuring **that Europe remains world leader** in innovation, production and services in relation to road transport
- **4 topics in 2021** (94 M€)
- **4 topics in 2022** (105 M€)
- **Issues:** regional medium freight haulage, power electronics, optimised smart EV charging, sustainable circularity, heavy duty vehicles, busses
- Implementing **co-programmed Partnership** "Towards zero emission road transport" (2ZERO)

Aviation

- Accelerating the **reduction of all aviation impacts and emissions** (CO₂ and non-CO₂, including manufacturing and end-of-life, noise), developing aircraft technologies for deep reduction of greenhouse gas emissions, and **maintaining European aero-industry's global leadership** position
- **2 topics in 2021** (54 M€)
- **3 topics in 2022** (45 M€)
- **Issues:** long-term research, silent and ultra-low local air pollution aircraft, digital aviation technologies, policy-related research



Waterborne transport

- Accelerate the development and prepare the deployment of **climate neutral and clean solutions** in the shipping sector, **reduce its environmental impact** (on biodiversity, noise, pollution and waste management), improve its **system efficiency**, leverage digital and EU satellite-navigation solutions and contribute to the **competitiveness** of the European waterborne sector
- **8 topics in 2021** (93 M€)
- **6 topics in 2022** (96 M€)
- **Issues:** climate neutral fuels, electrification, energy efficiency and drastically lower fuel consumption of vessels, port infrastructure, inland waterway vessels, automated shipping
- Implementing **co-programmed Partnership** "Zero Emission

Transport - Health and environment

- Devising more effective ways for **reducing emissions and their impacts** through improved scientific knowledge
- **2 topics in 2021** (15 M€)
- **1 topic in 2022** (7 M€)
- **Issues:** retrofit solutions for tailpipe and brake polluting emissions, noise and particle emissions, smog prevention

Destination 5 – Zero-emission road transport

Objectives

- Transforming **road transport to zero-emission mobility** through a world-class European research and innovation and industrial system, ensuring that Europe remains world leader in innovation, production and services in relation to road transport (more detailed information below).

Issues covered in topics 2021-2022

- Regional medium freight haulage, power electronics, optimised smart EV charging, sustainable circularity, heavy duty vehicles, busses

Implementation

- **2021: 4 topics** (total budget: 94 M€)
- **2022: 4 topics** (total budget: 105 M€)



All topics contribute to the **European Partnership "Towards zero emission road transport' (2ZERO)"**

(https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-partnerships-horizon-europe/candidates-climate-energy-and-mobility_en)

Destination 5 – Aviation

Objectives

- Accelerating the **reduction of all aviation impacts and emissions** (CO₂ and non-CO₂, including manufacturing and end-of-life, noise), developing aircraft technologies for deep reduction of greenhouse gas emissions, and **maintaining European aero-industry's global leadership** position

Issues covered in topics 2021-2022

- Long-term research, silent and ultra-low local air pollution aircraft, digital aviation technologies, policy-related research

Implementation

- **2021: 2 topics** (total budget: 54 M€)
- **2022: 3 topics** (total budget: 45 M€)

Substantial activities are funded under the Institutional European Partnerships "**Clean Aviation**" (<https://clean-aviation.eu/>) and "**Air Traffic Management**".



Destination 5 – Waterborne Transport

Objectives

- Accelerate the development and prepare the deployment of **climate neutral and clean solutions** in the shipping sector, **reduce its environmental impact** (on biodiversity, noise, pollution and waste management), improve its **system efficiency**, leverage digital and EU satellite-navigation solutions and contribute to the **competitiveness** of the

European waterborne sector

Issues covered in topics 2021-2022

- climate neutral fuels, electrification, energy efficiency and drastically lower fuel consumption of vessels, port infrastructure, inland waterway vessels, automated shipping

Implementation

- **2021: 8 topics** (total budget: 93 M€)
- **2022: 6 topics** (total budget: 96 M€)



Most topics contribute to the **European Partnership “Zero Emission Waterborne Transport (ZEWT)”**

(https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-partnerships-horizon-europe/candidates-climate-energy-and-mobility_en)

Destination 5 – Impact of transport on environment and human health

Objectives

- Devising more effective ways for **reducing emissions and their impacts** through improved scientific knowledge

Issues covered in topics 2021-2022

- retrofit solutions for tailpipe and brake polluting emissions, noise and particle emissions, smog prevention

Implementation

- **2021: 2 topics** (total budget: 15 M€)
- **2022: 1 topics** (total budget: 7 M€)



Destination 6 - Safe, Resilient Transport and Smart Mobility services for passengers and goods

Connected, cooperative and automated mobility

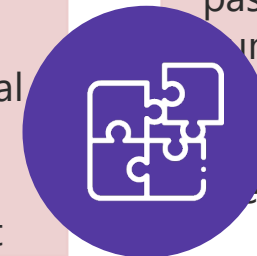
- Accelerating the implementation of innovative connected, cooperative and automated mobility (CCAM) technologies and systems for **passengers and goods**
- **6 topics in 2021** (74 M€)
- **5 topics in 2022** (88 M€)
- **Issues:** on-board perception and decision-making technologies, safety validation, Physical and Digital Infrastructure, cyber-security, socio-economic and environmental impacts, coordination, demonstrators, occupant protection, Human behavioural model, fleet and traffic management systems, Artificial Intelligence
- Implementing **co-programmed Partnership** "Connected,

Multimodal and sustainable transport systems

- Further developing a **multimodal transport system** through sustainable and smart long-haul and urban freight transport and **logistics**, upgraded and resilient physical and digital **infrastructures** for smarter vehicles and operations, for optimised system-wide network efficiency
- **3 topics in 2021** (53 M€)
- **7 topics in 2022** (91 M€)
- **Issues:** multimodal freight transport nodes, greening the last mile, transport infrastructure (inland waterways), logistics networks integration and harmonisation, urban logistics and planning, smart enforcement, mobility services for the next decade, multimodal network and traffic management, construct, maintain and decommission transport infrastructure, resilient freight transport and logistics networks

Safety and resilience

- Drastically decreasing the number of **transport accidents, incidents and fatalities** towards the EU's long-term goal of moving close to zero fatalities and serious injuries by 2050 even in road transportation (Vision Zero) and increase the **resilience** of transport systems
- **4 topics in 2021** (40 M€)
- **3 topics in 2022** (34 M€)
- **Issues:** safe lightweight vehicles, human-technology interaction, road safety in low and medium income countries in Africa, infection on large passenger ships, safe automation and human factors in aviation, vulnerable users, resilient aircraft and increased survivability, containership



Destination 6 – Connected, cooperative and automated mobility (CCAM)

Objectives

- Accelerating the implementation of innovative **connected, cooperative and automated mobility (CCAM)** technologies and systems for passengers and goods

Issues covered in topics 2021-2022

- On-board perception and decision-making technologies; safety validation; Physical and Digital Infrastructure; cyber-security; socio-economic and environmental impacts; coordination; demonstrators; occupant protection; human behavioural model; fleet and traffic management systems; Artificial Intelligence

Implementation

- **2021: 6 topics** (total budget: 74 M€)
- **2022: 5 topics** (total budget: 88 M€)



All topics contribute to the **European Partnership “Connected, Cooperative and Automated Mobility (CCAM)”**
(https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/european-partnerships-horizon-europe/candidates-climate-energy-and-mobility_en)

Destination 6 – Multimodal and sustainable transport systems

Objectives

- Further developing a **multimodal transport system** through sustainable and smart long-haul and urban freight transport and **logistics**, upgraded and resilient physical and digital **infrastructures** for smarter vehicles and operations, for optimised system-wide network efficiency

Issues covered in topics 2021-2022

- multimodal freight transport nodes; greening the last mile; transport infrastructure (inland waterways); logistics networks integration and harmonisation; urban logistics and planning; smart enforcement; mobility services for the next decade; multimodal network and traffic management; construct, maintain and decommission transport infrastructure; resilient freight transport and logistics networks

Implementation

- **2021: 3 topics** (total budget: 53 M€)
- **2022: 7 topics** (total budget: 91 M€)



Destination 6 – Safety and resilience

Objectives

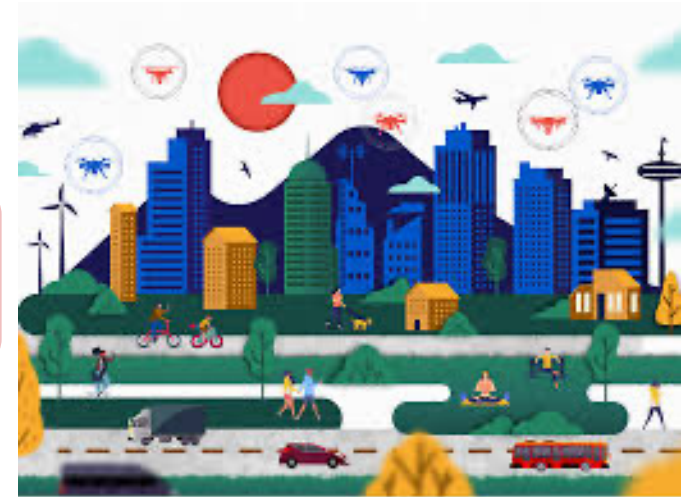
- Drastically decreasing the number of **transport accidents, incidents and fatalities** towards the EU's long-term goal of moving close to zero fatalities and serious injuries by 2050 even in road transportation (Vision Zero) and increase the **resilience** of transport systems.

Issues covered in topics 2021-2022

- Safe lightweight vehicles; human-technology interaction; road safety in low and medium income countries in Africa; vulnerable road users; infection on large passenger ships; containership fires; safe automation and human factors in aviation; resilient aircraft and increased survivability

Implementation

- **2021: 4 topics** (total budget: 40 M€)
- **2022: 3 topics** (total budget: 34 M€)



Important websites

Cluster 5 draft work programme 2021-2022 (version of 21 May 2021):

<https://ec.europa.eu/transparency/expert-groups-register/core/api/front/document/51842/download>

!!! This draft has not been adopted or endorsed by the European Commission !!!

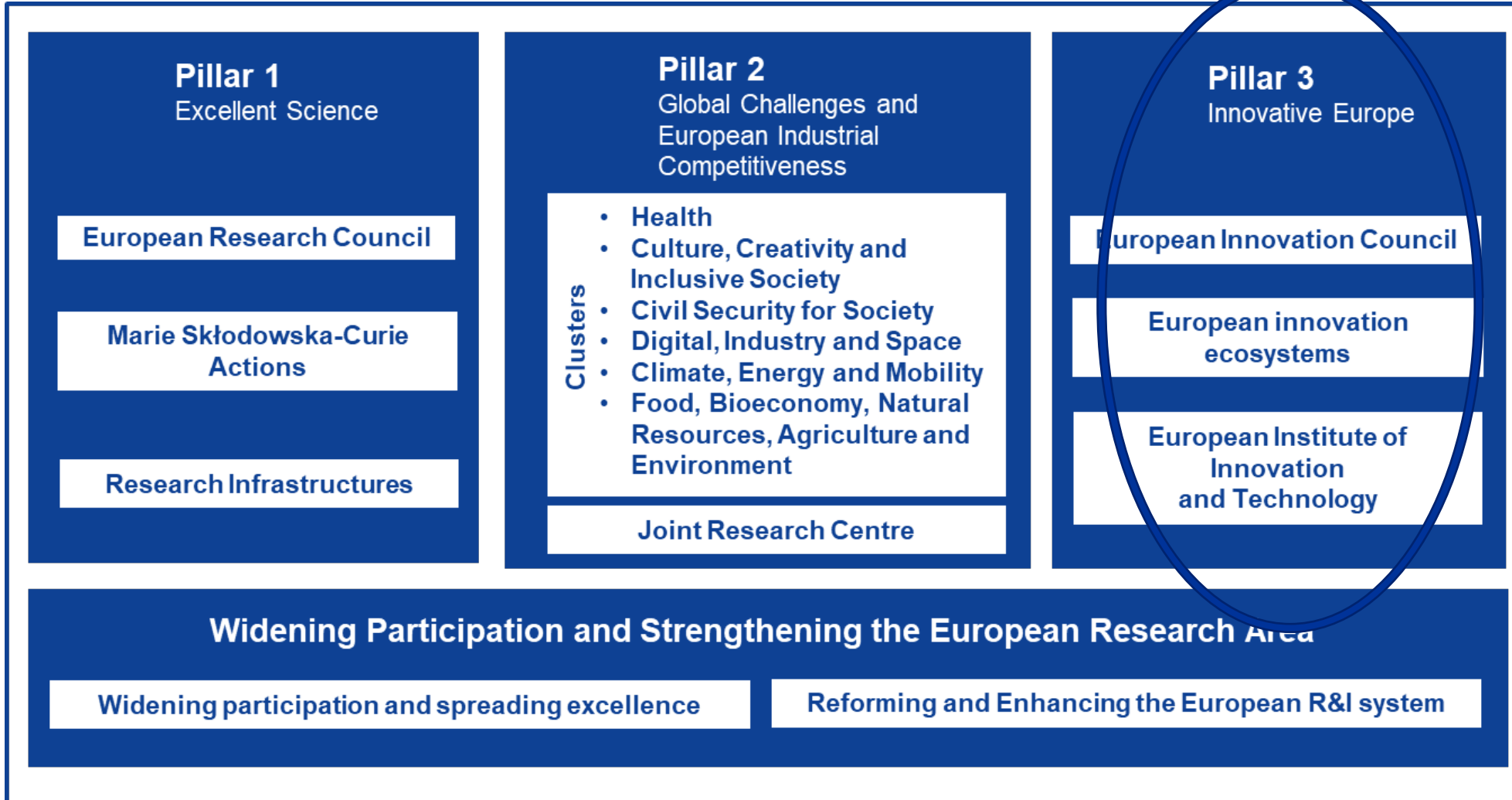
Information event on cluster 5 calls

<https://www.horizon-europe-infodays2021.eu/event/cluster-5-climate-energy-mobility>

Funding & Tender Portal

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

Horizon Europe



Horizon Europe: https://ec.europa.eu/info/research-and-innovation/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe_en

Pillar III: Innovative EU <https://op.europa.eu/en/publication-detail/-/publication/377dbf20-b91d-11eb-8aca-01aa75ed71a1/language-en/format-PDF/source-search>

European Innovation Council: https://eic.ec.europa.eu/index_en



What is holding back European Innovation?

Innovation performance	<ul style="list-style-type: none">• Strong research performance not translated into innovation• Lack of breakthrough/ disruptive innovations that create new markets
Innovation funding	Financing gaps (2 “valleys of death”) in <ul style="list-style-type: none">• Transition from lab to enterprise• Scaling up for high-risk innovative start-ups
Innovation ecosystem	<ul style="list-style-type: none">• Many national & local ecosystems, but fragmented at European level• Need to include all regions and all talent (especially female innovators)



What is the EIC?

One stop shop for
breakthrough, deep-tech,
market-creating innovators

- Open to all innovators, in any field, at any time
- Complemented by targeted funding on strategic challenges
- Highly competitive for Europe's high potential innovators

Agile funding from idea to
investment

- Pathfinder for advanced research on emerging technologies
- Transition from lab to commercial setting
- Accelerator & EIC Fund to scale up innovations by start-ups & SMEs

Building ecosystems and
communities

- Access to Business Acceleration Services (coaches, mentors, corporates, investors & knowledge partners)
- EIC Programme Managers to develop visions for breakthroughs, manage portfolios, and connect to ecosystems
- Crowding in other investors (VC, corporates, etc.)



The main EIC Support Schemes

Pathfinder

For advanced research on
breakthrough / game-changing
technologies

Pathfinder Open: bottom-up
approach; no predefined topics

Pathfinder Challenges: top-
down challenge-driven calls for
tackling specific issues by
portfolios of projects

Transition

For transforming research results
into innovation opportunities;
follow up results from EIC
Pathfinder and ERC Proof of
Concept

Transition Open: no topic
prescription

Transition Challenges: selected
challenges

Accelerator

For individual companies to
develop and scale up
breakthrough innovations with
high risk and high impact

Grant Funding
Equity Funding
Business Acceleration Service

EIC Fund: VC fund – EC shareholder / Bridging equity funding gap at early stage / Crowding in other investors

Business Acceleration Service: access to advice, to business partners and to innovation ecosystems & peers

Work programme EIC 2021



	Who can apply	What for	Open calls (Section II)		Challenge driven calls (Section III)		
			Call deadline(s)	Indicative Budget (EUR million)	Challenges	Call deadline(s)	Indicative Budget (EUR million)
EIC Pathfinder	Consortia of at least three different independent legal entities (e.g. research organisations, universities, SMEs, industry) established in at least 3 different eligible countries. Single applicants or small consortia (two partners) may be able to apply for Pathfinder Challenges according to the call specifications.	Grants of up to EUR 3 million (open) or EUR 4 million (challenge driven) (or more if properly justified) to achieve the proof of principle and validate the scientific basis of breakthrough technology (TRL 1-4)	19 May 2021	168.00	<ol style="list-style-type: none"> 1. Awareness inside 2. Tools to measure & stimulate activity in brain tissue 3. Emerging Technologies in Cell & Gene Therapy 4. Novel routes to green hydrogen production 5. Engineered living materials 	27 October 2021	132.00
EIC Transition	Single applicants (SMEs, spin-offs, start-ups, research organisations, universities) or small consortia (two to 5 partners). Applications must build on results from eligible Pathfinder, FET or ERC Proof of Concept projects	Grants of up to EUR 2.5 million (or more if properly justified) to validate and demonstrate technology in application-relevant environment (TRL 4 to 5/6) and develop market readiness	22 September 2021	59.60	<ol style="list-style-type: none"> 1. Medical devices 2. Energy harvesting and storage technologies 	22 September 2021	40.50
EIC Accelerator	Single Start-ups and SMEs (including spin-outs), individuals (intending to launch a start-up/SME) and in exceptional cases small mid-caps (fewer than 500 employees)	Blended finance: up to EUR 2.5 million grant component for technology development and validation (TRL 5/6 to 8); EUR 0.5 - 15 million investment component for scaling up and other activities. Grant only/grant first under certain conditions. Investment component only for small mid-caps or as follow up to grant only (i.e. for SMEs, including start-ups)	Any time (short applications) Full applications by 9 June 2021 and 6 October 2021	592.50	<ol style="list-style-type: none"> 1. Strategic Health and Digital Technologies 2. Green Deal innovations for the economic recovery 	Any time (short applications) Full applications by 9 June 2021 and 6 October 2021	495.10



EIC Pathfinder Challenges and portfolio approach

EIC Pathfinder Challenges aim to **build on new, cutting-edge directions in science and technology** to disrupt a field and a market or create new opportunities **by realising innovative technological solutions** grounded in high-risk/high-gain research and development.

Top-down, based on given vision for each Challenge Indicative: TRL 2-4.

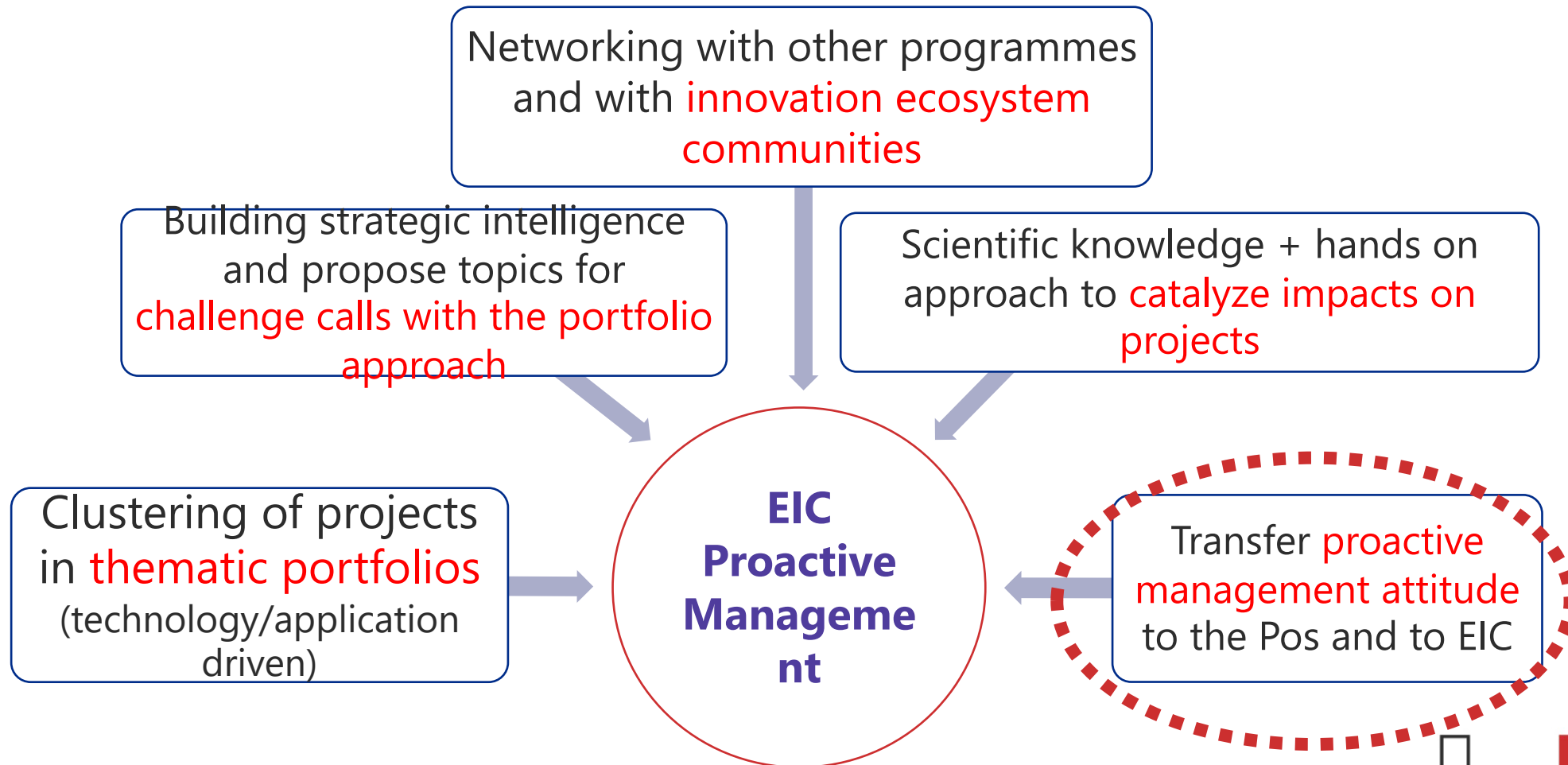
Challenge portfolio approach:

- a **coherent set of projects** exploring different perspectives, competing approaches or complementary aspects of the Challenge;
- **multidisciplinary interactions** and exchanges for synergies and serendipity;
- contributing to an overarching **medium to long-term business goal** and technology-based strategic plan, under the supervision of **EIC Programme Managers**

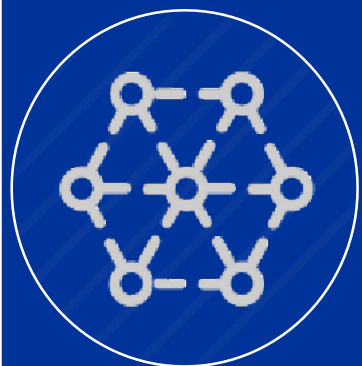
KEY ROLES OF PROGRAMME MANAGERS



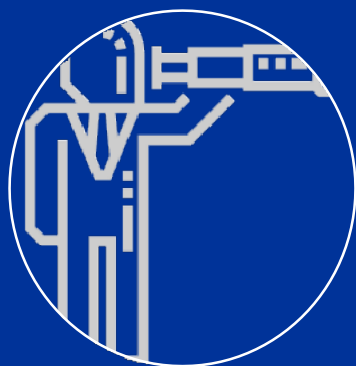
bringing together cutting-edge expertise and visionary drive to turn new technological breakthroughs into relevant and responsible innovations for Europe and for the world



Proactive management of projects



Engagement and interaction among projects to seed new ideas and **facilitate cross sectorial contamination**: impact on specific research



Vision to integrate projects towards ambitious targets and address broader research challenges (the **portfolio goals**)



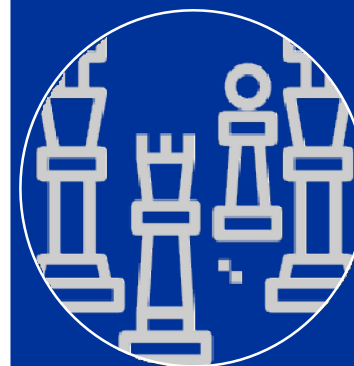
Nurture the **transition to innovation** by balancing dissemination and IP protection, and networking with key players



Bridging EIC projects and other European programmes i.e. Horizon Missions, ERC, EIT, societal challenges, national/regional programmes



Identify **regulatory or legislative gaps** and propose opportunities to bridge them



Steer the research and innovation towards **EU policy orientations**: take strategic directions and influence policy





- **Selezione progetti nelle challenge calls:** chair del team di revisori, con possibilità di finanziare i progetti sulla base degli obiettivi complessivi del **portafoglio** definiti nella topic guide
- **Aiuto diretto ai progetti in corso:** contributo ad hoc di **50 kEur** fino a 3 volte durante la durata del Progetto per facilitare innovazione, trovare nuove applicazioni ecc
- **Supporto di esperti scientifici esterni:** possibilità consulenza tecnico-scientifica su specifici argomenti di ricerca e innovazione (ec. Valutare il potenziale di innovazione di una ricerca, le possibilità di mercato, analisi brevettuali ecc..)

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/work-as-an-expert>

- Avviare specifiche **consultazioni EU** su aspetti legislativi, normativi, standard tecnici ecc che possono ostacolare lo sviluppo di una innovazione, coinvolgendo le DG interessate e i principali stakeholders (innovation deals)

HORIZON-EIC-Pathfinder Challenge – III.1.4

Novel routes to green hydrogen production



Scope

Hydrogen, actually largely produced from fossil fuels, has the potential to contribute to the development of efficient, sustainable and flexible energy systems.

This Pathfinder Challenge aims at developing **novel processes and technologies to produce green H₂** (full life-cycle greenhouse gas emissions close to zero), at **different scales** (from small to large) and **capturing cross sectorial coupling and system integration opportunities, entirely based** on (i) **renewable sources** and (ii) **non-toxic, non-critical raw materials**.

It focuses on the potentials of **new biological, chemical, and physical routes for green H₂ production** which could also facilitate the implementation of the **circular economy** principles, possibly including the co-production of decarbonised chemicals.

The specific target is to support the development of innovative technologies and platforms for green H₂ production, **including both centralised and/or on-demand generation** (i.e. at the premises of the end users and for onsite consumption).

HORIZON-EIC-Pathfinder Challenge – III.1.4

Novel routes to green hydrogen production



Expected outcome

A proof of concept or lab-scale validated innovative Green H₂ production technology (TRL3) by biological, chemical or physical routes without the deployment of fossil fuels, potentially including the use of salt or waste water, organic wastes or the co-production of decarbonized chemicals.

Strong recommendations:

Multidisciplinary and cross sectorial approaches are particularly welcome.

Proposers are strongly encouraged to consider the **recovery and recycling** of by-products and wastes (life cycle thinking and circular approach).

The **use of toxic-free** and **non-critical raw materials** is requested and the projects should include a full life cycle analysis of the proposed solutions and their impact on Europe's decarbonisation goals.



Pathfinder Challenge Guides and evaluation criteria

- The Challenge Guide **provides more information** about the specific objectives of the challenge, e.g.:
 - a detailed assessment of the state of the art
 - technical information to underpin the objectives
 - potential societal, economic, environmental impacts expected
 - portfolio evaluation criteria for constituting a coherent set of projects
- The Challenge Guides are **published** on the EIC website and through the EU Funding & Tender Opportunities Portal.
https://eic.ec.europa.eu/calls-proposals/eic-pathfinder-challenge-novel-routes-green-hydrogen-production_en

HORIZON-EIC-Pathfinder Challenge – III.1.4

Novel routes to green hydrogen production



Type of action:

Research and Innovation Action (RIA) to cover the eligible costs, necessary for the implementation of your project, including the portfolio activities.



EU contribution

For this call, the EIC considers proposals with an EU contribution of **up to EUR 4 million** as appropriate. Nonetheless, this does not preclude you to request larger amounts, if properly justified or stated otherwise in the specific Challenge. The funding rate of this grant will be **100% of the eligible costs. The total budget available for this call is 20 MEur**



Deadline for proposals submission:

27th October 2021



Can you apply?

Consortia or single legal entities (unless stated otherwise for the specific challenge*):

- In case of consortium, they have to include **at least two** independent legal entities:
 - consortia of two must have independent legal entities from two different Member States or Associated Countries;
 - consortia of three or above follow standard rules i.e., at least one legal entity must be from a Member State;
 - Legal entities: all types are eligible.
- In the case of **single entity**, mid-caps and larger companies are not permitted.

HORIZON-EIC-Transition Challenge – III.2.2

Energy harvesting and storage technologies



Scope

In order to maximally benefit from the **different harvesting and storage technologies**, a systems approach is needed that **combines harvesting and storage** or that **integrates** a specific storage technology into a **comprehensive application-specific solution**.

The proposals are expected to develop **energy storage technologies or combined energy harvesting/storage technologies** ready for investment and business development, with the perspective to **capture specific systems integration opportunities, not using critical raw materials** and **for different applications** such as utility scale, distributed or portable micro-scale applications, and **for stationary as well as mobile uses**.

HORIZON-EIC-Transition Challenge – III.2.2

Energy harvesting and storage technologies



Expected outcome

Proposals are expected to **address prototypes or demonstrators operating in relevant environment conditions (achieving TRL6) combined with a sound business plan and business model** of at least one of the following:

- **Innovative technologies and systems combining energy harvesting and storage**, which are efficient, clean, high energy density and low-cost, integrated for stationary or mobile applications;
- **Innovative concepts and techniques for the combined harvesting and storage** of solar energy (in the form of **heat or solar fuels**), geothermal or waste heat, **including topics such as long-term thermal storage, cooling and cryogenic storage**, building integrated solutions, thermo-electricity, advanced heat transfer, power to heat to power, and thermo-mechanical energy storage and conversion;
- **Advanced materials and devices for electro-chemical storage (other than Li-Ion batteries)**, at utility scale, mobile or distributed/micro scale level, **also integrated to PV/wind energy systems or for other intermittent sources**. Concepts that offer the potentials for high flexibility, high energy density, efficiency, low-cost, made of toxic-free and non-critical raw materials, should be harnessed to make them usable for specific applications.

HORIZON-EIC-Transition Challenge – III.2.2

Energy harvesting and storage technologies



Type of action:

Research and Innovation Action (RIA) to cover the eligible costs, necessary for the implementation of your project, including the portfolio activities.



EU contribution

For this call, the EIC considers proposals with an EU contribution of **up to EUR 2,5 million** as appropriate. Nonetheless, given that the costs of such activities in this challenge tend to be high, budgets of above €2.5 million may be accepted if duly justified. The funding rate of this grant will be **100% of the eligible costs. Total budget for the call 20 MEur**



Deadline:

22nd September 2021

Eligibility:

Beneficiaries of FET or ERC PoC projects started or terminated in a specific time slot (started not less than 1 year before or terminated not more than 1 year before the call deadline)

Additional opportunities for selected projects



Projects or their beneficiaries funded through EIC Pathfinder and Transition are eligible:

- to receive additional **Ad hoc grants** (up to 3 per project or more if duly justified) with fixed amounts of up to €50,000 (proposed by the PM):
 - for complementary activities to explore potential pathways to commercialization
 - for portfolio activities.
- Pathfinder projects can submit a proposal to the **EIC Transition**;
- submit an **EIC Accelerator** proposal via the **Fast Track** scheme;
- to receive free access to a wide range of **Business Acceleration Services**.



- Provisions in Work Programme (Annex 7) and in Model Grant Agreement (pending).
- Main elements (in addition to normal Horizon Europe rules) concern:
 - 1. Exchange of information on preliminary findings and results**
(on request, relates to information not disclosure, via EIC Market Place with in-built confidentiality/ protection)
 - 2. Priority to exploitation**
(in Plan for Exploitation and Dissemination with best efforts to exploit)
 - 3. Rights of EIC inventors**
(access rights for exploitation by individual inventors in not-for-profit beneficiaries)

HORIZON-EIC-Accelerator Challenge - III.3.2

Green Deal innovations for the Economic Recovery

EIC Accelerator: a four-step evaluation process

1

- You have a disruptive / deep tech idea with a potential to scale up
- **Tell us your story** with short application at any time

2

- You prepare a full application with your **business plan**
- We will help you with a dedicated AI tool and free coaching

3

- **You submit your full proposal** at one of the regular cut-off dates
- Your application will be assessed by expert evaluators matched to your field

4

- **You pitch** your innovation to a Jury of experienced investors/ entrepreneurs
- If selected, you will sign the grant and start due diligence for the equity



What are we looking for?

Start-ups and SMEs seeking to **scale up** high impact innovations with the **potential to create new markets** or disrupt existing ones

Innovations building on **scientific discovery** or technological breakthroughs (**'deep tech'**)

Innovations where **significant funding** is needed over a **long timeframe** and are **too risky** for private investors alone



HORIZON-EIC-Accelerator Challenge - III.3.2

Green Deal innovations for the Economic Recovery



Scope

This EIC Accelerator challenge will fund **transformative green deep tech innovations**, which contribute to the goals enshrined in the European Green Deal strategy and the Recovery Plan for Europe. In that particular regard, at least 50% of the companies selected for the interview phase must have submitted proposals relating to one the following areas:

- **Renewable energy, including renewable Hydrogen and energy storage:** to further develop **renewable energy sources, green hydrogen or decarbonised fuels production and/or storage at different scales**, from centralised to on demand, as well as for **different applications ranging from stationary to transport**, including solutions that address the whole supply chain to limit the use of critical raw materials, to contribute to the goal of a carbon neutral economy

HORIZON-EIC-Accelerator Challenge - III.3.2

Green Deal innovations for the Economic Recovery



Scope

Deep renovation of buildings: to increase the energetic and environmental performance of residential, commercial and public buildings, also bundling energy supply and/or demand through innovative technologies and operating strategies, proposing building embedded energy generation and storage solutions and financial schemes or business models.

Low carbon industries: including solutions on electrification, circularity and industrial symbiosis of industrial processes, the use of carbon capture storage and utilisation technologies or the digitisation of industrial processes.

Battery and other energy storage systems: comprising other energy storage systems such as chemical as well as physical storage technologies (including ultracapacitors), for use on stationary as well as transport applications.

HORIZON-EIC-Accelerator Challenge - III.3.2

Green Deal innovations for the Economic Recovery



Expected outcome

Proposals are expected to **scale up next generation low-carbon technologies** developed by high-risk, high-potential small- and medium-sized enterprises (**SMEs**) (including start-ups) from any sector provided that their proposal contributes to **Green Deal goals**.

The outcome is a **global technology leader SME** able to **transform business concepts into market-ready innovations** (new or breakthrough technologies, products, processes, services and business models) and **their rollout**.

Those SMEs will fuel the societal transition towards a **climate-neutral and circular economy** while supporting **EU's competitiveness and leadership in green technologies** and the **recovery from the COVID-19 crisis**.

HORIZON-EIC-Accelerator Challenge - III.3.2

Green Deal innovations for the Economic Recovery

Strong recommendations

You must base your proposal on a **strategic business plan** and **specify the project's success criteria** and **expected outcomes**.

You must **pay particular attention to IPR strategy**, and you must present convincing evidence or measures to **ensure the possibility of commercial uptake** (often known as 'freedom to operate'). Moreover, you must **address regulatory and standardisation issues**.

Proposals must describe the project's contribution to the implementation of at least one of these Green Deal goals, using where possible quantitative impact assessments.

HORIZON-EIC-Accelerator Challenge - III.3.2

Green Deal innovations for the Economic Recovery



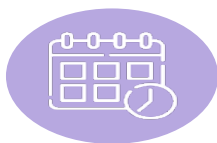
Type of action:

Research and Innovation Action (RIA) to cover **70% of the eligible costs**, necessary for the implementation of your project, including the portfolio activities.



EU contribution

Support may be provided in the form of **blended finance** (combining grant of up to EUR 2.5 million and investment component of between EUR 0.5 and EUR 15 million) or **grant only/ grant first** support. In addition to funding, if you are successful you will receive free access to a wide range of Business Acceleration Services.



Deadline:

6 October 2021 at 17h00 Brussels local time



What support can you receive?

- **Grant and investment**
- If you need support for development (TRL 5/6 → 8), deployment and scale-up (TRL 9).

- **Grant only**

- If you can prove that you have sufficient financial means for deployment and scale-up (TRL 9).

Grant first

If your innovation still requires significant work to validate and demonstrate in relevant environments to assess its commercial potential.

Investment only

If you are looking to fill the funding gap for rapid scale-up of your high-risk innovation and you don't need a grant.





Investment component

- minimum EUR0.5 million and maximum EUR 15 million,
- usually in the form of direct equity or quasi-equity,
- maximum 25% of the voting shares of the company,
- “patient capital” principle (7-10 years perspective on average).

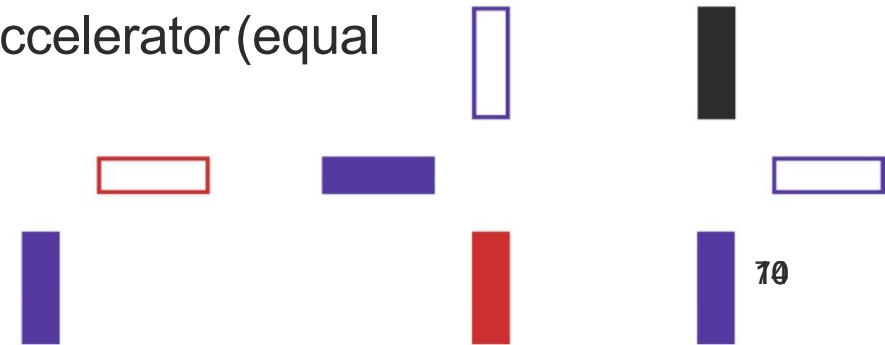
Grant component

- maximum EUR2.5 million,
- eligible costs are reimbursed up to a maximum of 70%,
- innovation activities supported should be completed within 24 months,
- small mid-caps are not eligible for grant (but can apply for investment only).



Follow up funding for results from Horizon and national programmes

- **Fast Track scheme** for projects funded by Horizon:
 - Starting with ERC, EIT/ KICs, EIC, Eurostars
- **Plug-In scheme** for projects funded by eligible national programmes
 - Pilot/ design phase in 2021
 - Expert Group to advise on eligible programmes
- Implemented by funding body of existing project:
 - Project review to assess EIC Accelerator criteria on “excellence” and “impact”.
 - If successful, can apply directly to full application stage of EIC Accelerator (equal treatment with other applicants)





- **Conoscenza del policy background:** collegare i progetti alle strategie europee alla base di Horizon EU
- **Studiare attentamente le call:** rispondere puntualmente agli obiettivi della call conoscendone i presupposti e la genesi
- **Proposte tecnicamente eccellenti:** support da parte di grant offices in grado di supportare i ricercatori e le aziende per la presentazione di proposte complete e
- **Multidisciplinarietà, comunicazione, disseminazione, exploitation, IP:** focus su sectors contaminations e proposte 'complete' (valorizzazione risultati, disseminazione, ecc)
- **Interazione con Policy Officers:** rapporto che si costruisce nel tempo, non 'last minute'; importante fare esperienza come valutatori
- **EIC accelerator:** spesso il finanziamento avviene a seguito di diversi tentativi, gender parity, team completo (CEO, CTO, CFO), analisi del mercato e dei competitor



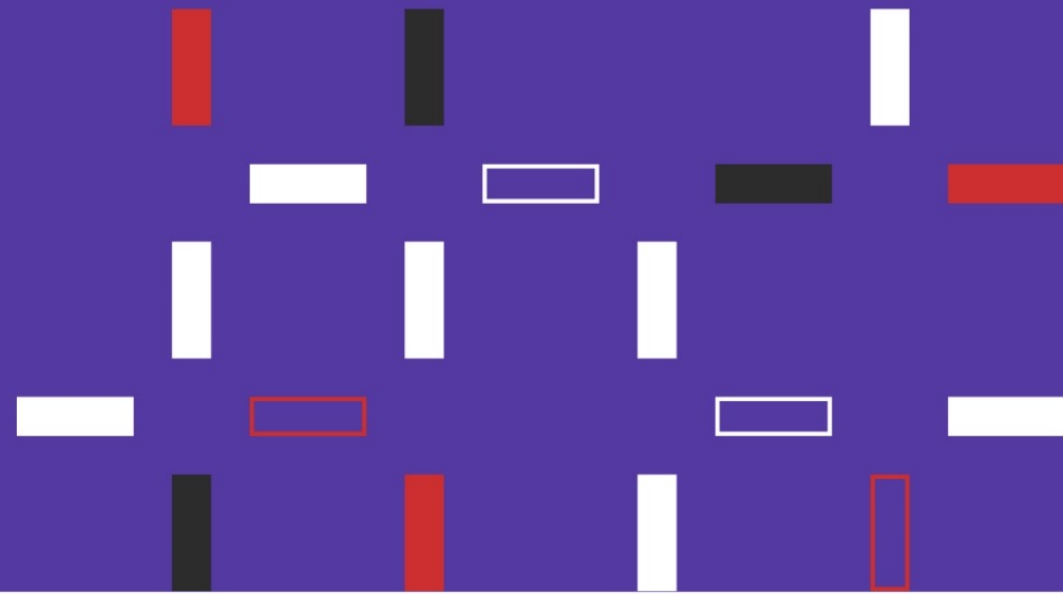
Thank you!

Antonio.pantaleo@ec.europa.eu

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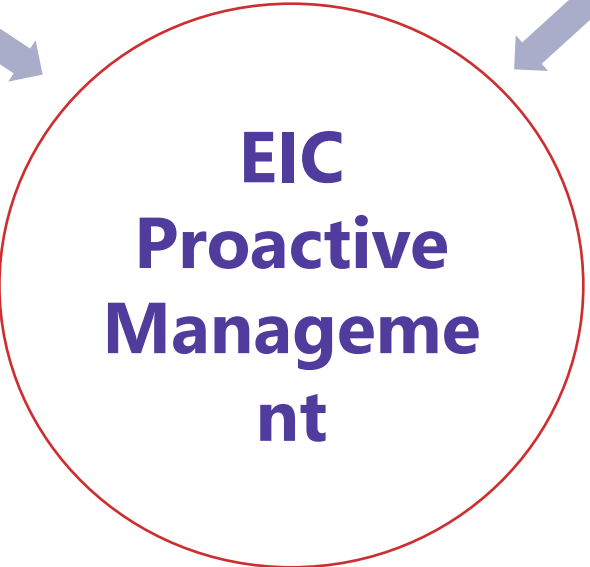
PM: Roles – making strategic choices

Outreach to R&I stakeholders,
networking with other programmes
and with innovation ecosystem
communities

Building strategic intelligence and
identify and pursue emerging
targets

Scientific knowledge + hands on
approach to catalyze impacts of
projects

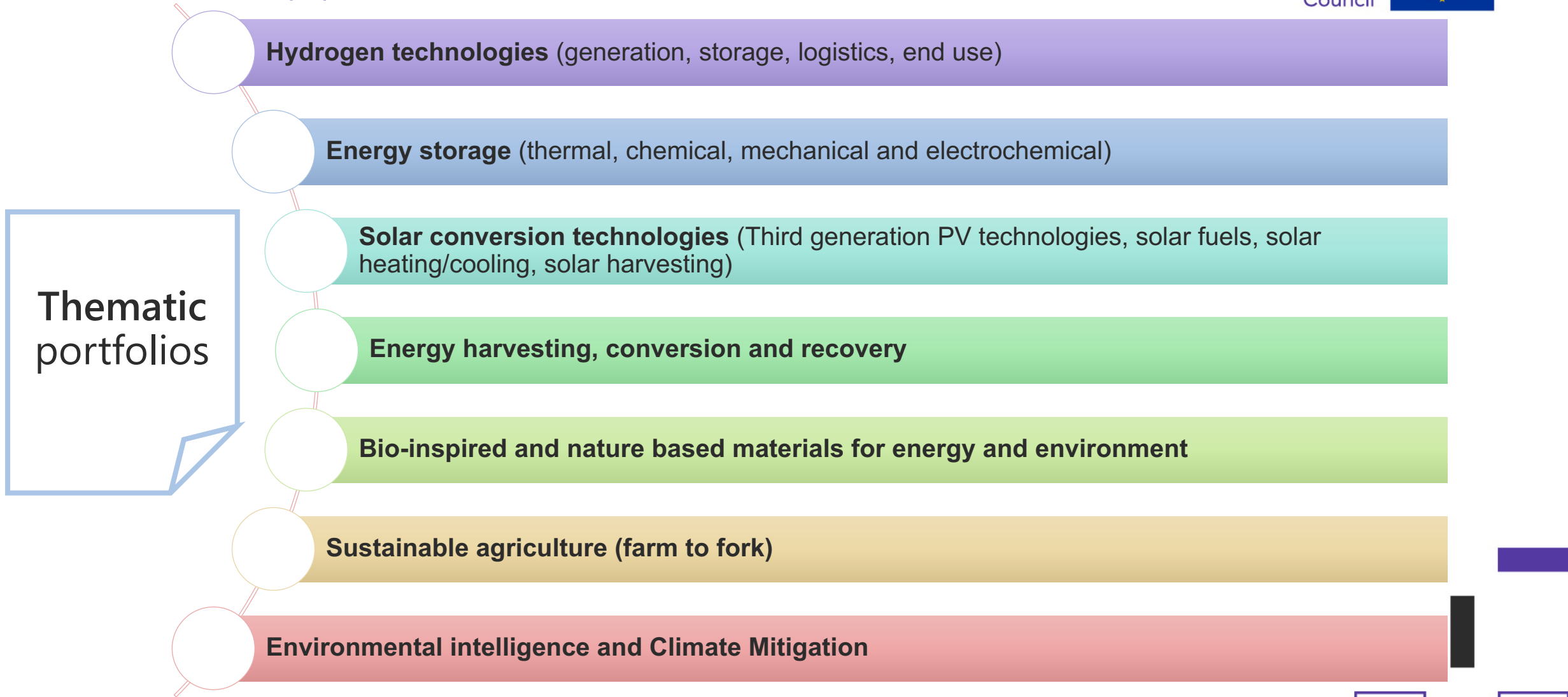
Strategic assessment and
organizing projects in
thematic or targeted
portfolios



Co-create a proactive
management culture
with EIC staff



Portfolios approach



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