



# HORIZON EUROPE

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## THE KEY PRIORITIES OF THE 'MAIN' HORIZON EUROPE WORK PROGRAMME 2023-2024

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# Key Priorities: Introduction



# Work Programme 2023-2024 in a nutshell

- Total budget ca. **€13.5 billion** for research and innovation (R&I)
- Support to the **green and digital transitions**:
  - climate objectives and biodiversity
  - digital transition in a wide range of sectors and core digital technologies
- Investment in EU's **safety, security and resilience**:
  - recovery from the COVID-19 pandemic
  - clean energy transition and reducing energy dependency
  - pandemic preparedness
  - fighting physical and cyber threats
- Targeted support for **Ukraine**

# International Cooperation in the Work Programme 2023-2024

- Open to the World: any consortium can include international partner(s) for almost all topics
- 22% of topics specifically encourage International Cooperation
- Africa initiative/ Mediterranean initiative/ China flagships
- Balance openness with safeguarding European strategic autonomy and assets (Article 22.5 of HE Regulation): 31 topics restrict participation

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# Marie Skłodowska-Curie Actions (MSCA)



# Marie Skłodowska-Curie Actions (MSCA): Policy narrative



## Key priorities/challenges addressed and/or main expected impacts:

- The MSCA respond to Europe's continuing need for a highly-skilled and resilient human capital base in research and innovation by **equipping researchers with new knowledge and skills** and providing them with **international, inter-sectoral and interdisciplinary exposure**
- The MSCA support researchers' training and mobility through **bottom-up and excellence-driven research** in the framework of **doctoral networks, postdoctoral fellowships, staff exchanges and citizen outreach**
- The MSCA also have a **structuring impact** on higher education institutions and other R&I entities way beyond academia by widely **spreading excellence and setting standards for high-quality researcher education and training**, not only across the European Research Area but also worldwide

# Marie Skłodowska-Curie Actions (MSCA): Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- Erasmus +
- ERDF
- HE: WIDERA, Missions, EIT, EIC, COST

## Main horizontal policy priorities addressed:

- International Cooperation
- Open Science
- Academic freedom, European Charter and Code for the recruitment of researchers
- Gender, diversity
- Green Charter

## Budget:

EUR 889 million in 2023 and EUR 913 million in 2024

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# Research Infrastructures

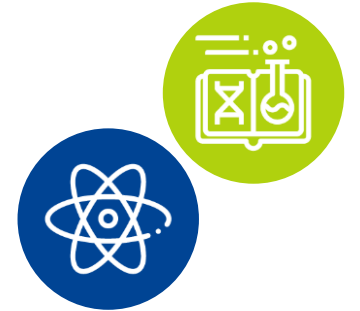




# Research Infrastructures (RIs): Policy narrative

## Key priorities/challenges addressed and/or main expected impacts:

- Consolidate existing capacities and develop new RIs to support **scientific breakthroughs** and **respond to new challenges**, notably in the field of **health and for the twin transition**;
- Provide **ERA** with an effective and sustainable RIs landscape, to make it **increasingly attractive for researchers and talents from all over the world**;
- **Upsurge resilience of RIs**, particularly in the context of recovery from COVID-19 pandemic and the energy crisis;
- Contribute to **Open science & data policies** through a trusted virtual environment (European Open Science Cloud - EOSC) that offers high-speed connectivity to researchers.
- Address **global environmental, social and economic challenges**, in line with the renewed ERA;
- Contribute to **local and regional development** by supporting, inter alia, the implementation of Smart Specialisation Strategies;
- Develop **cutting-edge technologies** for RIs and **foster innovation**;
- Reinforce the **international dimension** of European RIs.



# Research Infrastructures: Policy narrative

## Synergies foreseen with other funding programmes/work programme parts:

- Cohesion policy instruments
- Pillar II missions and partnerships
- European Research Council

## Main horizontal policy priorities addressed:

- Renewed ERA
- Digitalisation
- Green transition
- Competitiveness
- International cooperation through opening of RIs to researchers beyond EU borders

## Budget:

EUR 320.26 million in 2023 and EUR 333.80 million in 2024

# Research Infrastructures WP part 2023-2024 in a nutshell

## Destinations

- **Developing, consolidating, optimising European RIs landscape (INFRAEV)**, 2 calls, 11 topics, call deadlines 09/03/2023, 12/03/2024
- **Enabling an operational, open and fair EOSC ecosystem (INFRAEOSC)**, 2 calls, 11 topics, call deadlines 09/03/2023, 12/03/2024
- **Research infrastructures services to support health research, accelerate the green and digital transformation, and advance frontier knowledge (INFRASERV)**, call, 3 topics, call deadlines 09/03/2023
- **Next generation of scientific instrumentation, tools and methods and advanced digital solutions (INFRATECH)**, 2 calls, 5 topics, call deadlines 09/03/2023, 12/03/2024

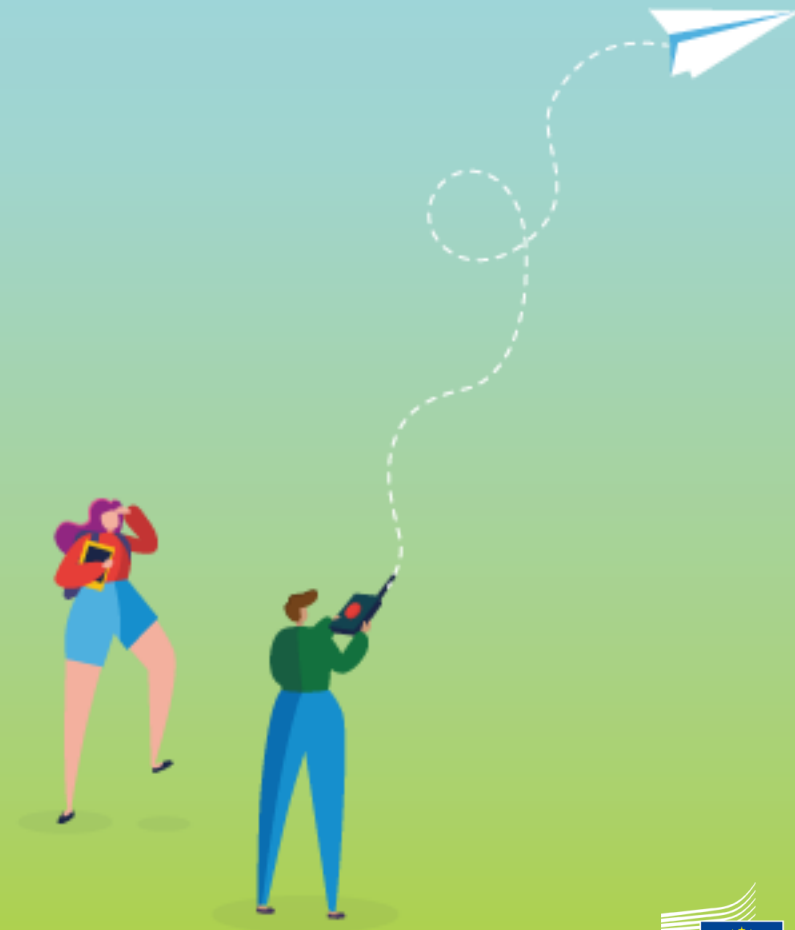
## Other actions

- **5 GIB**: ERIC monitoring, EOSC monitoring, presidency events, etc.;
- **1 SGA** to the FPA for Research and Education Networks;
- 2 expert contract actions.

~**EUR 654 million total budget**: ~EUR 320 million on topics/actions 2023,  
~EUR 334 million on topics/actions 2024

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# Health



# Health: Policy narrative



## Key priorities/challenges addressed and/or main expected impacts:

Cluster Health strives to contribute to 6 expected impacts as set out by the Strategic Plan, which are the following **6 destinations of the work programme 2023-2024**:

- **Destination 1: Staying healthy in a rapidly changing society**
- **Destination 2: Living and working in a health-promoting environment**
- **Destination 3: Tackling diseases and reducing disease burden**
- **Destination 4: Access to sustainable and high-quality health care**
- **Destination 5: New tools, technologies and digital solutions for a healthy society**
- **Destination 6: Sustainable and globally competitive health-related industry**

**European Partnerships** on Rare Diseases, One Health Antimicrobial Resistance, Personalised Medicine and Pandemic Preparedness.

# Health: Policy narrative (2)



## Synergies foreseen with other funding programmes/work programme parts:

- **Co-creation process & multitude of synergies** between the calls in the annual WPs, 9 Partnerships and the Cancer Mission
- **Cross-cluster complementarities.** ERC, MSCA and research infrastructures of pillar 1, as well as EIC and EIT of pillar 3. EURATOM contribute to health research
- **Synergies with other programmes** including EU4Health, ERDF, InvestEU, ESF+, RRF, and more



## Main horizontal policy priorities addressed:

- EU Digital Single Market
- EU Directive on cross-border healthcare
- European Health Union: Cross-Border Health Threats, Pharmaceutical Strategy for Europe, EHDS, Europe's Beating Cancer Plan, Healthier together NCD initiative
- European One Health Action Plan against antimicrobial resistance (AMR)
- The European Green Deal's "zero pollution" & EU's Chemicals Strategy for Sustainability



## Budget:

**EUR 1 010 million in 2023 and EUR 521 million in 2024**

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# Culture, creativity and inclusive society



# Culture, creativity and inclusive society: Policy narrative

## Key priorities/challenges addressed and/or main expected impacts:



- Provide knowledge, data and recommendations to reinvigorate democratic governance, improve trust in democratic institutions, help safeguard fundamental rights and empower active and inclusive citizenship. Respond to the consequences of UA's invasion by RU, including on EU's neighborhood and enlargement policies.



- Promote better access and engagement with cultural heritage and improve its protection, enhancement and restoration. Support sustainable growth and job creation through the cultural and creative industries. Support the establishment of a “European Collaborative Cloud for Cultural Heritage”.



- Tackle social and economic inequalities, promote fair digital and green transitions and contribute to a European strategy for inclusive growth, including increased social resilience and reaching the objectives set out by the EPSR Action Plan. The destination will also support EU migration and mobility policies, while promoting integration.



# Culture, creativity and inclusive society: Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- The following programmes offer specific opportunities for the take-up of research results and innovative solutions developed under CI2: Creative Europe, Erasmus+, Global Europe, Digital Europe, CERV, ESF+, ERDF, AMIF, InvestEU
- Cross-cluster complementarities, as set out in the SP 2021-2024

## Main horizontal policy priorities addressed:

- European Democracy Action Plan & Defense of Democracy package
- EPSR and its Action Plan
- European Framework for Action on Cultural Heritage
- Council Work Plan on Culture
- European Green Deal
- European Education Area
- New European Bauhaus
- EC Equality Agenda
- Pact on Migration and Asylum

**Budget:** EUR 286.3 million in 2023 and EUR 308 million in 2024

(including EUR 6.5 million earmarked for emergency actions, and not including EUR 14 million for missions in 2023 and EUR 16.8 million for missions in 2024)

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# Civil security for society



# Civil security for society: Policy narrative



## Key priorities/challenges addressed:

- This Cluster 3 Work Programme part ‘Civil Security for Society’ will support the implementation of EU policy priorities on security, including cybersecurity, and disaster risk reduction and resilience.
- Cluster 3 focuses on projects that will improve EU preparedness and resilience in case of security threats, including cyber threats, hybrid threats, CBRN-E attacks etc.
- Cluster 3 topics also aim at protecting critical entities and infrastructures and to strengthen border surveillance.

## Destinations (= main expected impacts):

- Destination 1: Better protect the EU and its citizens against Crime and Terrorism
- Destination 2: Effective management of EU external borders
- Destination 3: Resilient Infrastructure
- Destination 4: Increased Cybersecurity
- Destination 5: Disaster-Resilient Society for Europe
- Destination 6: Strengthened Security Research and Innovation

# Civil security for society: Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

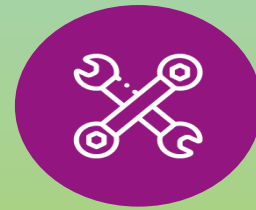
- Integrated Border Management Fund (IBMF)
- Internal Security Fund (ISF) – for law enforcement capabilities
- Digital Europe Programme
- Cohesion policy



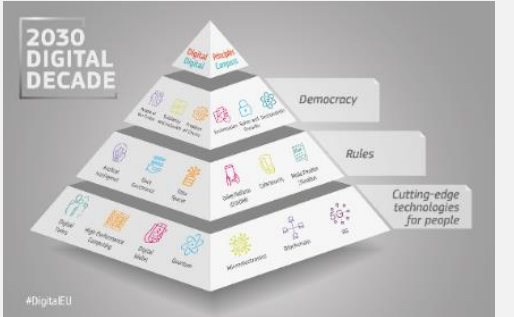


## Main horizontal policy priorities addressed:

- Within the framework of the Horizon Europe Strategic Plan 2021-2024, the Cluster 3 expected impacts will contribute in particular to the impact areas “*A resilient EU prepared for emerging threats*” and “*A secure, open and democratic EU society*” of Key Strategic Orientation D “*Creating a more resilient, inclusive and democratic European society*” and to the impact area “*Secure and cybersecure digital technology*” of Key Strategic Orientation A “*Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains*”.
- The Work Programme will support the European Commission policy priorities:
  - ‘Promoting the European way of life’
  - ‘European Green Deal’
  - ‘Europe fit for the digital age’.



# Digital, Industry and Space



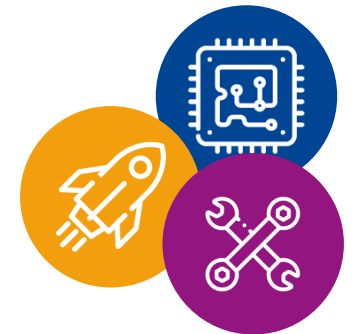
Destination	Strategies	
Climate-neutral, Circular and Digitised production <b>TWIN-TRANSITION – EUR 634M</b> <b>KSO C</b>	<b>Fit for 55</b> <b>Digital Decade</b> <b>Industrial Strategy Update</b>  <b>Climate Action: 42.8% of budget</b> <b>REPowerEU: ~EUR 250M of new investment for energy-independence</b>	
A digitised, resource efficient, and resilient industry <b>RESILIENCE – EUR 587M</b> <b>KSO A</b>	<b>Fit for 55</b> <b>EU Chemical Strategy</b> <b>Industrial Strategy Update</b>	
World-leading data and computing technologies <b>DATA – EUR 161M</b> <b>KSO A</b>	<b>European Data Strategy</b> <b>Digital Decade</b> <b>Industrial Strategy Update</b> <b>Chips Act</b>	
Digital and Emerging technologies <b>DIGITAL-EMERGING – EUR 487M</b> <b>KSO A</b>	<b>Digital Agenda: 50.5% of budget</b>	
Open Strategic Autonomy in Space infrastructures, services, applications and data <b>SPACE – EUR 486M</b> <b>KSO A</b>	<b>EU Space Strategy</b>	
A human-centred and ethical development of digital and industrial technologies <b>HUMAN – EUR 318M</b> <b>KSO D</b>	<b>Digital Decade</b> <b>Industrial Strategy Update</b>	

# Digital, Industry and Space: Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- 5 co-programmed partnerships
- KDT (future Chips) JU
- EuroHPC JU
- SNS JU
- Metrology (Art. 185)
- Synergies with all other Clusters
- Synergies with Innovation Fund, ERDF, ESF+, InvestEU, ...

## Main horizontal policy priorities addressed:



**Budget:** EUR 1 591 million in 2023 and EUR 1 118 million in 2024 (+ JUs)

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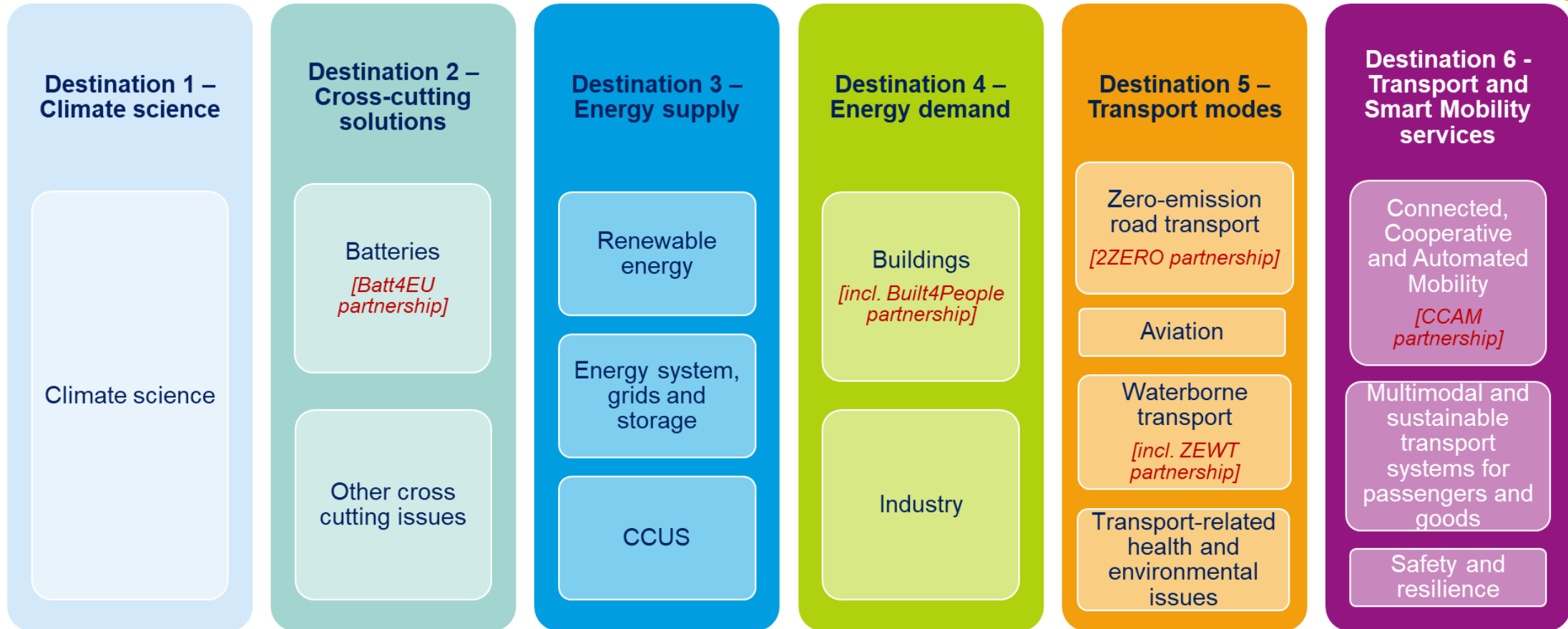
# Climate, energy and mobility





# Climate, energy and mobility: Policy narrative

Key priorities/challenges addressed and/or main expected impacts:



# Climate, energy and mobility: Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- 4 JUs on Rails, Aviation, Hydrogen, Air Traffic Management
- 2 EU Missions: Climate-neutral & Smart Cities, Climate Change Adaptation
- Cluster 4 (on AI, industry, materials...) and Cluster 6 (Climate science, biodiversity)
- EIT KICs, international/national/regional activities
- InvestEU, Innovation Fund, ERDF, LIFE, CEF, ESA, RRF

## Main horizontal policy priorities addressed:

- RePowerEU
- EU Sustainable Mobility Strategy
- Climate Action Law
- Fit-for-55
- Renovation Wave
- Zero Pollution Action Plan
- EU Climate Adaptation Strategy
- EU Hydrogen Strategy
- EU Solar Strategy
- European Research Area



## Budget:

EUR 1 322 million in 2023 and EUR 1 060 million in 2024

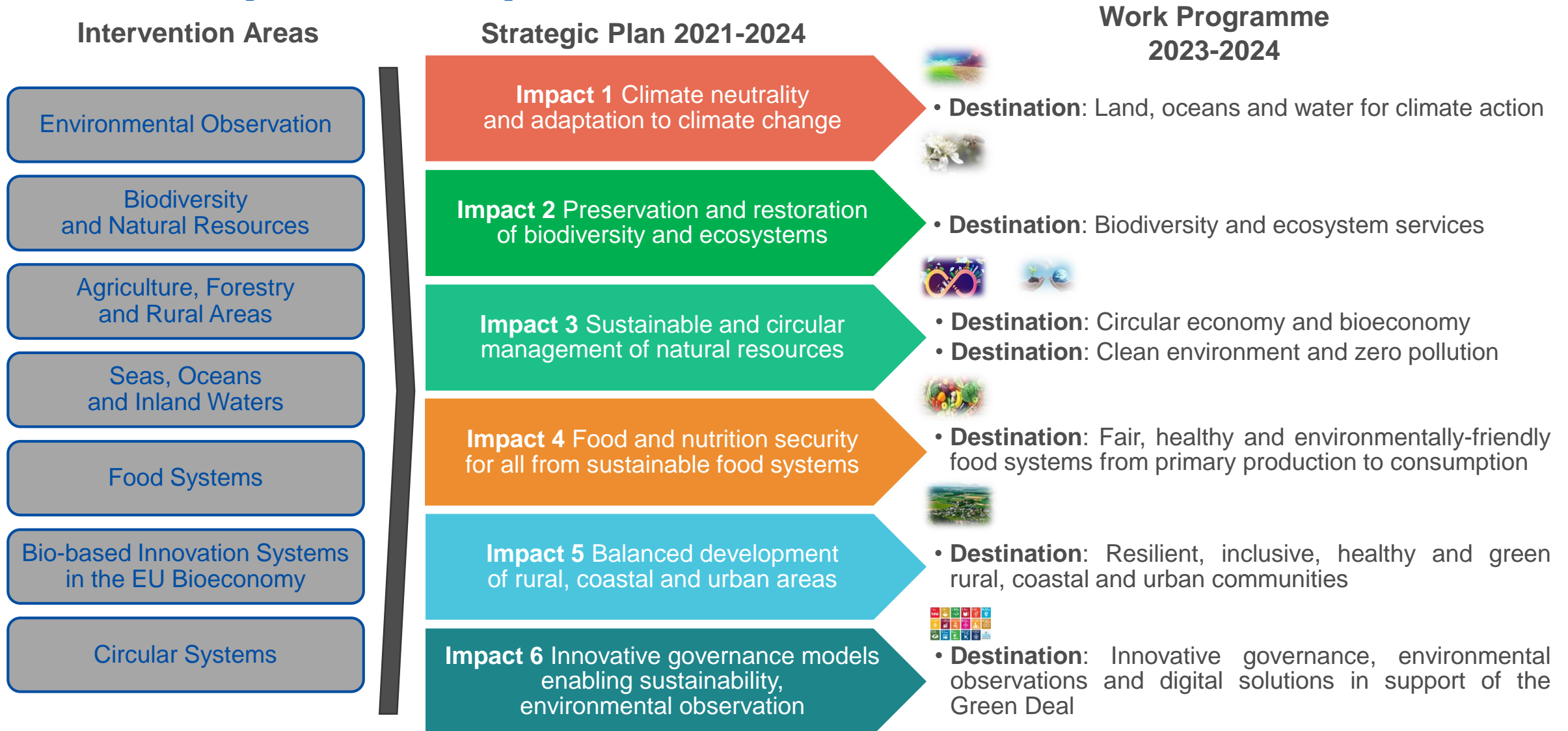
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# Food, bioeconomy, natural resources, agriculture and environment



# Horizon Europe: Cluster 6 policy narrative

## From Expected impacts to Destinations



# Food, Bioeconomy, Natural Resources, Agriculture and Environment: Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- **3 EU Missions:** Adaptation to climate change, Restore our Ocean and Waters, a Soil Deal for Europe
- **Other clusters** Cluster 1 (pollution, biodiversity, One Health), Cluster 4 (digitalisation, AI, industry, materials...) and Cluster 5 (climate adaptation and mitigation, clean energy)
- EU ambition in several **international fora**

## Main horizontal policy priorities addressed:



### *EU Green Deal actions*

- EU Biodiversity strategy for 2030, birds and habitats, water framework directives
- Farm to fork strategy
- Common Agricultural Policy
- EU Circular economy action plan
- EU zero pollution action plan
- EU adaptation strategy and European Climate Law
- EU forest strategy and EU soil strategy 2030
- Common fisheries policy, EU maritime policy
- EU industrial strategy, EU plastics strategy, EU chemical strategy for sustainability
- EU data strategy, EU digital strategy
- New approach for a sustainable blue economy in the EU
- EU bioeconomy strategy

**Budget:** EUR 909.7 million in 2023 and EUR 903.9 million in 2024

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# European innovation ecosystems (EIE)



# European innovation ecosystems (EIE): Policy narrative



## Key priorities/challenges addressed and/or main expected impacts:

- Build **interconnected, inclusive innovation ecosystems** across the EU by drawing on the **existing strengths** of national, regional and local ecosystems;
- Encourage the **involvement of all actors and territories**;
- Reinforce network connectivity for **sustainable business growth**;
- Set, undertake, and achieve **collective ambitions towards common challenges** for the benefit of society (twin transitions, innovation cohesion);
- Support the implementation of the **New European Innovation Agenda**;
- Help **innovative SMEs** to increase their R&I capacity and successfully **embed in global value chains and access new markets**;
- **Strengthen the coordination** between EU, national, and regional innovation policymaking.

# European innovation ecosystems (EIE): Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- European Innovation Council
- European Institute of Innovation and Technology
- Interregional Innovation Investments Instrument

## Main horizontal policy priorities addressed:

- The New European Innovation Agenda
- Strengthening and connecting innovation ecosystems across the EU
- Gender, diversity
- Twin transitions
- Deep tech
- Innovation cohesion

## Budget:

EUR 69.5 million in 2023 and EUR 85.6 million in 2024



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# Widening participation and strengthening the European Research Area



# Widening participation and strengthening the European Research Area: Policy narrative

Key priorities/challenges addressed and/or main expected impacts:

## Widening

- Tackle the innovation divide towards a more integrated and cohesive European research and innovation ecosystem in the European Union;
- Promote a more inclusive approach in which all can participate and from which all can benefit;
- Existing disparities between R&I leading and lagging countries should be tackled by introducing structural policy reforms.

## ERA

- Support the four objectives set out in the ERA Communication, and the implementation of the 20 actions in the ERA Policy Agenda:  
*Prioritising investments and reforms, Improving access to excellence, Translating R&I results into the economy, Deepening the ERA, to further progress the free circulation of knowledge and to ensure an upgraded, efficient and effective R&I system.*



# Widening participation and strengthening the European Research Area: Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- Horizon Europe in general, in relation to the relevant actions in the ERA Policy Agenda, and of the ambition of the Pact for R&I in general;
- Cohesion policy (in particular for Widening);
- Erasmus+ (European Strategy for Universities);
- ... and of course the national investments and reforms, including those supported by RRF.

## Main horizontal policy priorities addressed:

- Widening and ERA are by definition horizontal policy priorities!

# WIDERA WP part 2023-2024 in a nutshell

## 3 Destinations:

- **Improved access to Excellence, 7 calls, 8 topics**  
call deadlines 12/4/2023, 28/9/2023, 7/3/2024 and 26/9/2024
- **Attracting and mobilising the best talents, 4 calls**  
call deadlines 7/3/2024 and 26/9/2024, and 2 aligned to MSCA 13/9/2023 and 11/9/2024
- **Reforming and enhancing the EU research and innovation system,**  
2 calls, 24 topics, call deadlines 9/3/2023 and 12/3/2024
- **Other actions:**
  - 2 Prizes: Horizon Impact Award, EU Award for (Academic) Gender Equality Champions;
  - 7 GIB: RESAVER, EUCYS; COST, presidency events etc.;
  - 10 Procurements and 4 groups of expert contract actions;
  - 1 Contribution Agreement with OECD.
- **~EUR 900 million total budget:** ~EUR 445 million on topics/actions 2023,  
~EUR 455 million on topics/actions 2024



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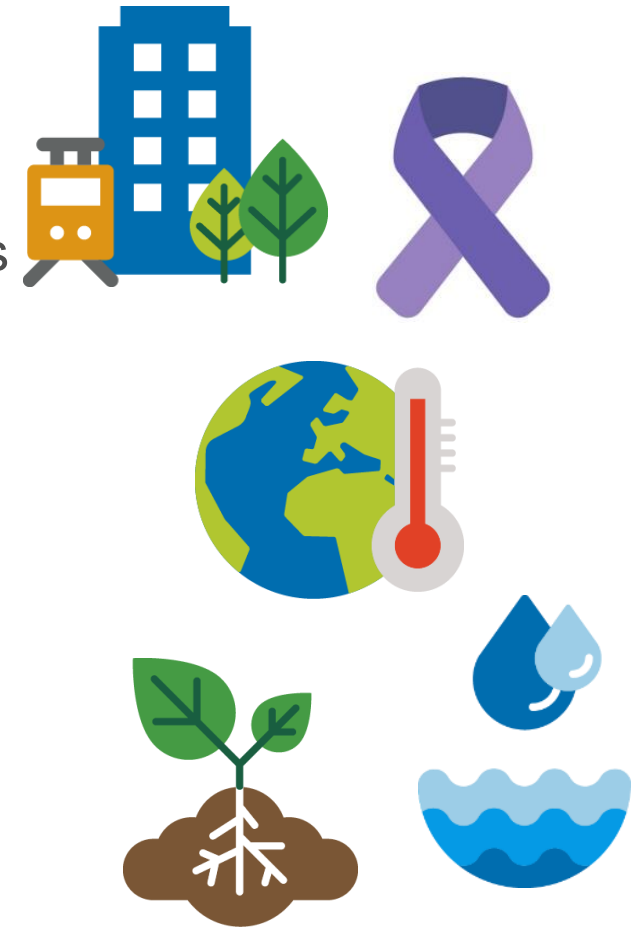
# EU Missions



# EU Missions: Policy narrative

## Key priorities/challenges addressed and/or main expected impacts:

- Adaptation to Climate Change: support at least 150 European regions and communities to become climate resilient by 2030;
- Cancer: improving 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;
- Restore our Ocean and Waters by 2030;
- 100 Climate-Neutral and Smart Cities by 2030;
- Improve the health of soils in Europe, with the transition led by 100 living labs and lighthouses to be established by 2030.



# EU Missions: Policy narrative (2)

## Synergies foreseen with other funding programmes/work programme parts:

- Synergies with e.g. clusters 1,5,6.
- Synergies with e.g. LIFE, EMFAF, ERDF and national funding schemes

## Main horizontal policy priorities addressed:

- Building and engaging communities
- Establishing Mission Implementation platforms, lighthouses, national hubs, mission charters, etc.
- European green deal, Europe's beating cancer plan
- Funding for European Solidarity Corps to enable young people to support EU Missions

## Budget:

EUR 584.43 million in 2023. The WP 23-24 will be amended in Q1 2024.



# Thank you!

## # HorizonEU

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