



European  
Commission

#HorizonEU

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**THE EU  
RESEARCH & INNOVATION  
PROGRAMME**

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2021 – 2027

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Research  
and  
Innovation

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# EU Research and Innovation: New Funding Opportunities for the Circular Economy

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European Research Executive  
Agency (REA)**



*CORFU 2022 9th International Conference on  
Sustainable Solid Waste Management, 15 June 2022*



# Outline

- **Introduction to the European research Executive Agency (REA)**
- European Green Deal and the Circular Economy Action Plan
- The role of R&I: new Horizon Europe Programme
- What opportunities for R&I in circular economy



European Commission

### IMPLEMENTING SEVEN HORIZON EUROPE AND TWO OTHER EU PROGRAMMES<sup>1</sup> WITH €22.7 BILLION<sup>2</sup> FROM 2021 TO 2027 IN PARTNERSHIP WITH 7 COMMISSION SERVICES

- DG Research and Innovation
- DG Education, Youth, Culture and Sport
- DG Agriculture and Rural Development
- DG Communications Networks, Content & Technology
- DG Migration & Home Affairs
- DG Environment
- DG Employment, Social Affairs and Inclusion

#### Horizon Europe



€6.2 billion



€1.8 billion



€3.1 billion



€7.4 billion



€2.4 billion



€371 million

#### Other EU programmes



€780 million



€679 million

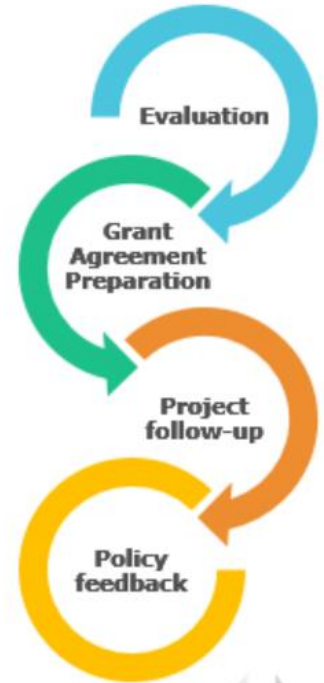
<sup>1</sup>in addition to ongoing Horizon 2020 projects  
<sup>2</sup>figures are rounded



What is REA?

## REA B3 - Biodiversity, Circular Economy and Environment

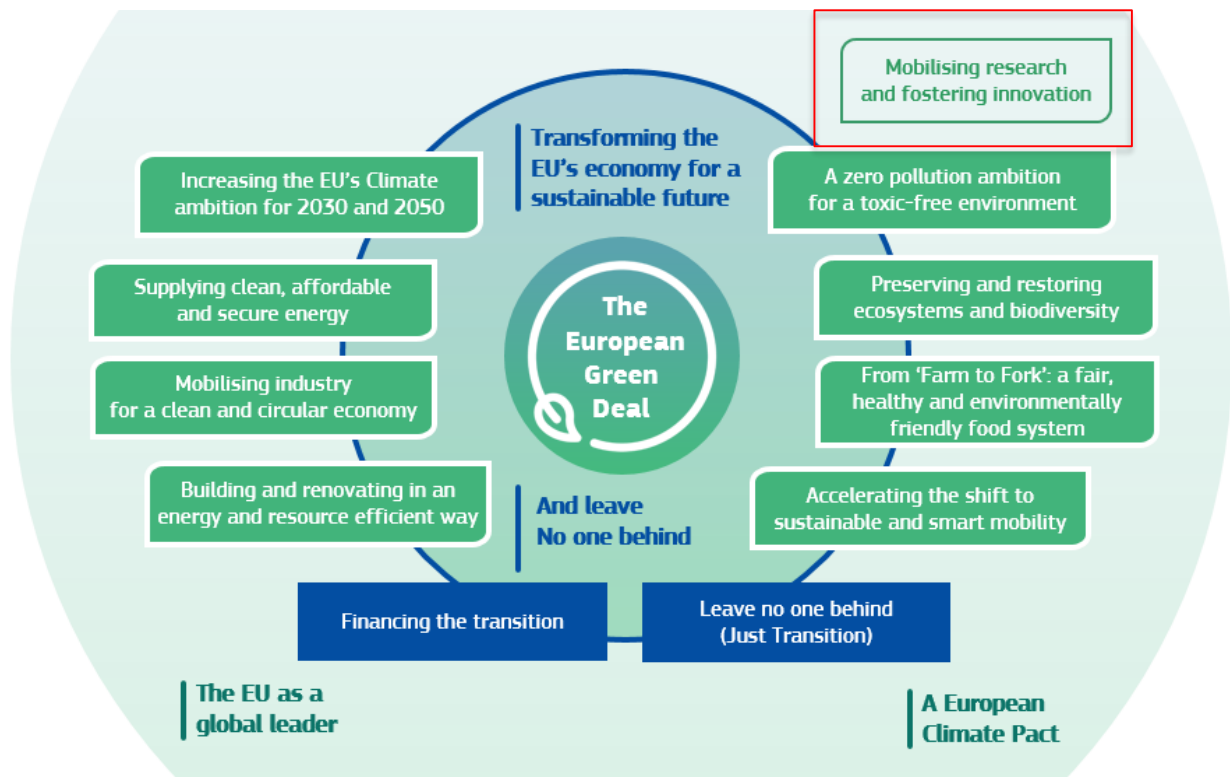
- Coordinating evaluations of submitted proposals
- Preparing Grant Agreements for projects delegated to REA
- Monitoring project implementation and dealing with contractual issues (e.g. amendments)
- Checking on the use of resources and making payments
- Implementing audit results
- Reporting on project management and results to Parent DGs (RTD, AGRI and ENV)



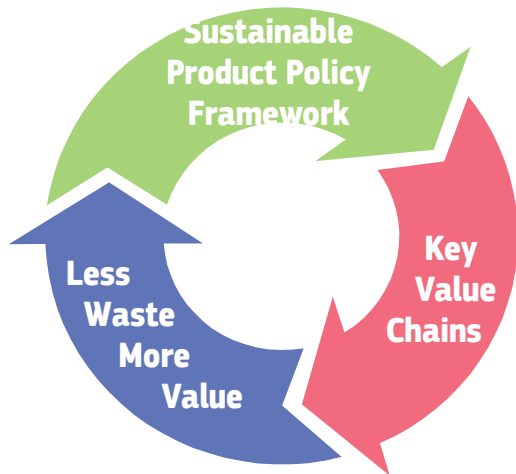
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# European Green Deal



# 2020 Circular Economy Action Plan



35 actions

Make sustainable products the norm in the EU  
Empower consumers and public buyers  
Sustainable production processes

Electronics and ICT  
Batteries and vehicles  
Packaging  
Plastics  
Textiles  
Construction and buildings  
Food, water and nutrients

Reduce Waste  
Reduce Waste Exports  
Boost market for high quality and safe secondary raw materials

**Making circular economy work for people, regions and cities**

**Circular economy as a requisite for climate neutrality**

**Getting the Economics Right**

**Financial Markets**

**Investments and R&I**

**Global Level Playing Field**

**Monitoring**



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# The Multiannual Financial Framework 2021-2027

## Single Market, Innovation and Digital

149.5 (+ 11.5 from NGEU)

## Cohesion, Resilience and Values

426.7 (+ 776.5 from NGEU)

## Natural Resources and Environment

401 (+ 18.9 from NGEU)

## Migration and Border Management

25.7

## Security and Defence

14.9

## Neighbourhood and the World

110.6

## European Public Administration

82.5

**Total: €2.018 trillion**



Learn more here:

[The EU's 2021-2027 long-term budget & NextGenerationEU - Publications Office of the EU \(europa.eu\)](#)

# Horizon Europe 2021-2027

## 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**

Clusters

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

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

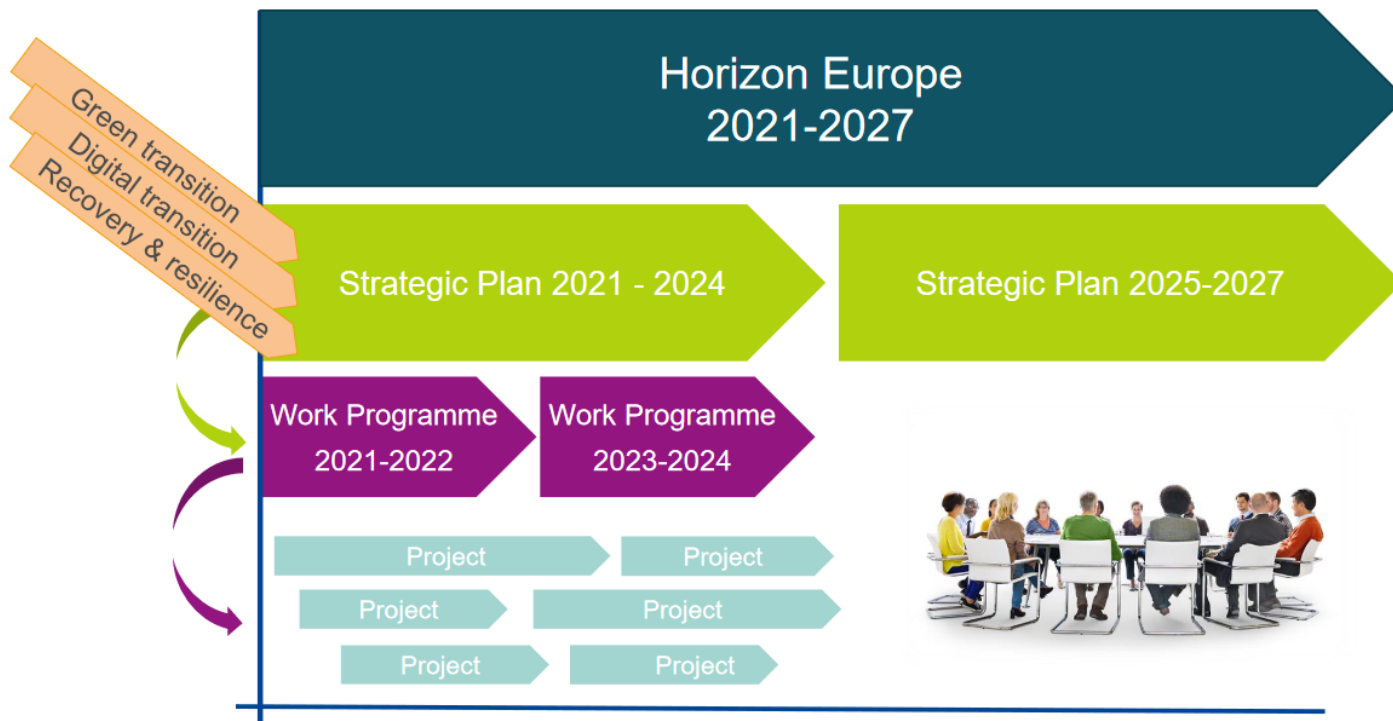
Fusion

Fission

Joint Research Center

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

# From policy priorities to concrete actions



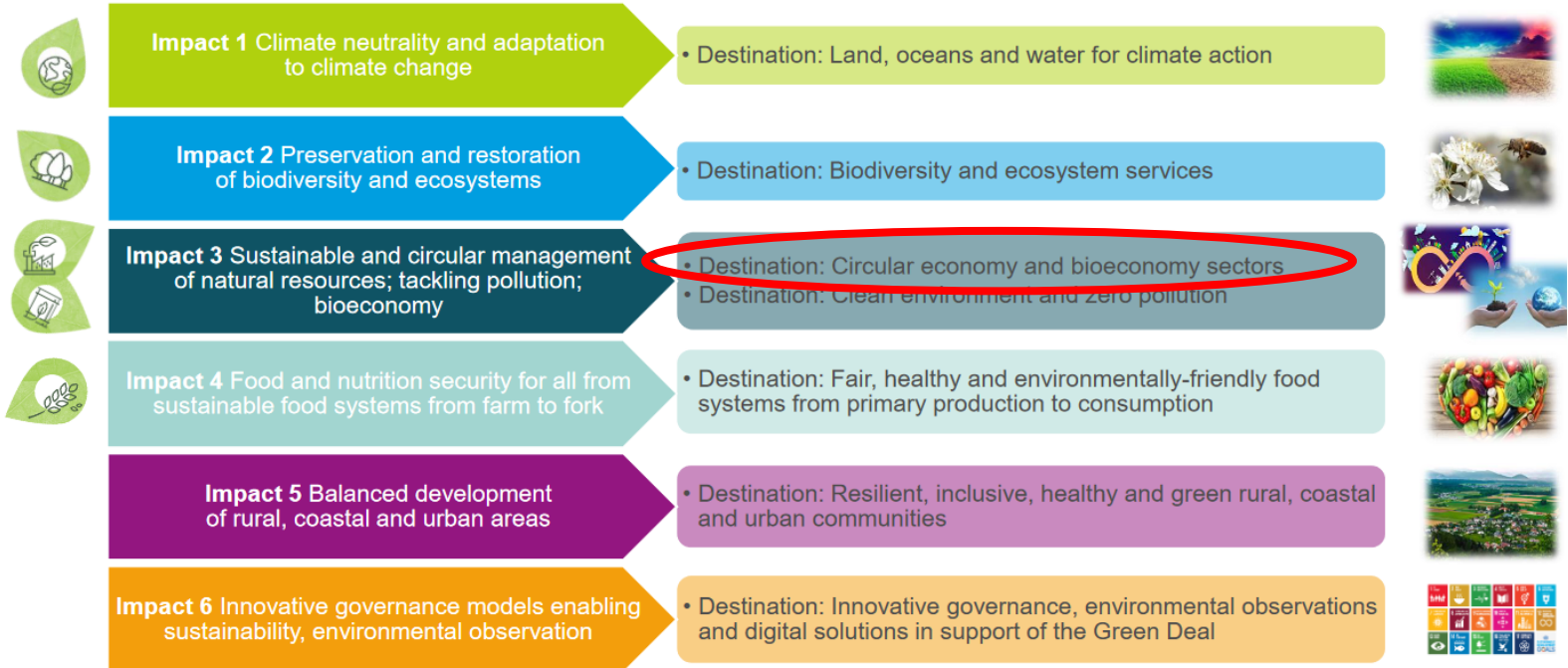
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# HE Cluster 6

## Strategic Plan

## Work Programme



# Cluster 6 WP 2021-22: Calls 2022 at a glance

| Cluster 6 - WP 2022 - Overview                     |                       |                  |                     |
|--|-----------------------|------------------|---------------------|
| Destinations                                       | Number of Calls       | Number of topics | Budget (in mio EUR) |
| <b>1. Biodiversity</b>                             | 2                     | 13               | 141                 |
| <b>2. Farm to Fork</b>                             | 2                     | 20               | 230.5               |
| <b>3. Circular economy and bioeconomy</b>          | 2                     | 13               | 142                 |
| <b>4. Zero pollution</b>                           | 1                     | 4                | 51                  |
| <b>5. Land, ocean and water for Climate action</b> | 1                     | 5                | 75                  |
| <b>6. Communities</b>                              | 2                     | 7                | 75                  |
| <b>7. Governance</b>                               | 1                     | 15               | 147                 |
| <b>Total</b>                                       | <b>7 Destinations</b> | <b>11</b>        | <b>77</b>           |
|  |                       |                  | <b>861.5</b>        |

# Example of relevant topics in Cluster 6 WP 2021-2022 (Closed calls)

- HORIZON-CL6-2021-CIRCBIO-01-01: Circular Cities and Regions Initiative (CCRI)'s circular systemic solutions
- HORIZON-CL6-2021-CIRCBIO-01-03: Innovative solutions to over-packaging and single-use plastics, and related microplastic pollution
- HORIZON-CL6-2021-CIRCBIO-01-04: Increasing the circularity in textiles, plastics and/or electronics value chains
- HORIZON-CL6-2022-CIRCBIO-01-03: Benefits of the transition towards sustainable circular bio-based systems from linear fossil-based
- HORIZON-CL6-2022-CIRCBIO-02-01-two-stage: Integrated solutions for circularity in buildings and the construction sector
- HORIZON-CL6-2022-CIRCBIO-02-03-two-stage: Sustainable biodegradable novel bio-based plastics: innovation for sustainability and end-of-life options of plastics



# Upcoming opportunities

- Cluster 6 **Work Programme 2023-24** is expected to be adopted at the end of 2022
- Next **Info Days** on calls for proposals in Cluster 6 are foreseen for early 2023
- **Priorities** are aligned to the Strategic Plan 2021-2024 and EU CEAP:
  - Develop, test and demonstrate innovative solutions for a **minimised, circular use of resources** for mainstreaming **circular systems at local and regional levels**, and increasing **resource efficiency along and across value chains**
  - Innovative, safe, circular and bio-based approaches, implemented through **technology breakthrough and sustainable business models** that bring economic and social benefits
  - Innovative, climate-neutral, bio-based, circular, non-toxic **materials and chemicals**

# Horizon Europe Missions

Horizon Europe  
R&I Missions

Linking EU's research and innovation to major societal needs;  
with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines **5 missions areas**:

Adaptation to  
Climate Change



Cancer



Climate-neutral  
and Smart Cities



Restore our  
Ocean and Waters



Soil Deal  
for Europe



# Upcoming opportunities: Mission Soil

## Innovations for soil improvement from bio-waste

HORIZON-MISS-2022-SOIL-01-10

Call for proposal

Grant

|                       |                            |                       |   |
|-----------------------|----------------------------|-----------------------|---|
| <b>Programme</b>      | Horizon Europe (HORIZON)   | <b>Status</b>         | <b>Open for submission</b>                  |
| <b>Type of action</b> | HORIZON Innovation Actions | <b>Deadline model</b> | single-stage                                |
| <b>Opening date</b>   | 12 May 2022                | <b>Deadline date</b>  | 27 September 2022 17:00:00<br>Brussels time |

## Improving food systems sustainability and soil health with food processing residues

HORIZON-MISS-2022-SOIL-01-02

Call for proposal

Grant

|                       |   |                       |   |
|-----------------------|---|-----------------------|---|
| <b>Programme</b>      | Horizon Europe (HORIZON)                | <b>Status</b>         | <b>Open for submission</b>                  |
| <b>Type of action</b> | HORIZON Research and Innovation Actions | <b>Deadline model</b> | single-stage                                |
| <b>Opening date</b>   | 12 May 2022                             | <b>Deadline date</b>  | 27 September 2022 17:00:00<br>Brussels time |

More information: [Funding and tender portal](#)  
Info Day, May 2022: [presentations and recordings](#)

# Upcoming opportunities: Mission Oceans

## Prevent and eliminate litter, plastics and microplastics: Innovative solutions for waste-free European rivers

HORIZON-MISS-2022-OCEAN-01-04

Call for proposal

Grant

|                       |                            |                       |   |
|-----------------------|----------------------------|-----------------------|---|
| <b>Programme</b>      | Horizon Europe (HORIZON)   | <b>Status</b>         | <b>Open for submission</b>                  |
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## Marine litter and pollution – Smart and low environmental impact fishing gears

HORIZON-MISS-2022-OCEAN-01-05

Call for proposal

Grant

|                       |                            |                       |   |
|-----------------------|----------------------------|-----------------------|---|
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# New Bauhaus Initiative in Horizon Europe

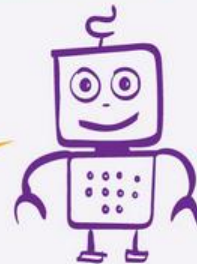
- **Horizon Europe work programme 2021-2022** (HE WP21-22) contains a number of actions that contribute to the New European Bauhaus, including dedicated calls, related to among other things construction and the built environment.
- The most important and most visible is the **€25 million cross-Mission call for NEB lighthouse demonstrators**, which will act as pilot projects and examples for future NEB projects
- NEB will be supported also across HE Work programme 2023-24 under different clusters and partnerships in areas such as wood and construction and renovation, built environment, food systems, bio-based economy, textiles, etc.

# EUROPEAN RESEARCH & INNOVATION DAYS

#RiDaysEU

28 → 29  
SEPTEMBER 2022

DIGITAL EVENT



#CEstakeholderEU

## European Circular Economy Stakeholder Platform

A joint initiative by the European Commission and the European Economic and Social Committee

- **Advancing the circular economy concept on the ground**
- **Strengthening cooperation among stakeholders' networks**

*representatives of networks of businesses, civil society and local, regional and national public authorities*



**Submit your own good practices, knowledge, strategies and voluntary commitments!**

Link to website: <http://circulareconomy.europa.eu/platform/>

## Concluding remarks

- Circular economy among the key priorities in Horizon Europe
- Strong alignment to the European Green Deal and the Circular Economy Action Plan
- A number of funding opportunities in the upcoming Work programme 2023-24 -> stay tuned for more information
- Other opportunities in relation to new EU Missions and New European Bauhaus Initiative
- **Apply, contribute and participate!**



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**THANK YOU!**