



**FIGHT
CLIMATE
CHANGE**
ΕΘΝΑΗΟ

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New EC strategies to fight climate change in 2023-24 and beyond

Dr Ing Stefano Mainero
EPN Consulting CEO, FCC Project Coordinator

Sofia, 30th March 2023

EPN Consulting
The European Professionals Network



EPN Consulting is

- **Consultancy**
- **International Network of Professionals**

EPN Consulting Limited was founded in 2009 in London by Dr Ing Stefano Mainero who holds a 5-year degree in Electronics Engineering awarded by the *Politecnico di Torino* University (Italy) and has 25+ years of experience in Consultancy services.

Stefano is a specialist in European Business, European Projects, Intelligent Mobility, Sustainable Transport, Climate Change Adaptation and Resilience.

The EPN Consulting's core team is made of a selected group of high-level professionals with decades of International experience to exceed Clients' expectations.

EPN Consulting is able to provide Clients with an exclusively tailored professional service that large consulting firms find hard to supply.





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Outline

- **The European Union: Brief Introduction**
- **The European Union and the Environment**
- **Delivering the EU Green Deal**
- **The EU Funding programs**
- **The Horizon Europe 2023-24 Work Programme**

Disclaimer: Pictures displayed in this presentation have been taken from several EU websites



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The European Union

Brief Introduction



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The EU flag

The history of the flag goes back to 1955. The Council of Europe - which defends human rights and promotes European culture - chose the present design for its own use. In the years that followed, it encouraged the emerging European institutions to adopt the same flag.

In 1983, the European Parliament decided that the Communities' flag should be that used by the Council of Europe. In 1985, it was adopted by all EU leaders as the official emblem of the European Communities, **later to become the European Union.**

N.B. The number of stars has nothing to do with the number of member countries, though the circle is a symbol of perfection and unity.





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The EU administration

There are 4 main decision-making institutions which lead the EU's administration. These institutions collectively provide the EU with policy direction and play different roles in the law-making process:

- the European Parliament (Brussels/Strasbourg/Luxembourg)
- the European Council (Brussels)
- the Council of the European Union (Brussels/Luxembourg)
- the European Commission (Brussels/Luxembourg/Representations across the EU)

Their work is complemented by other institutions and bodies, which include:

- the Court of Justice of the European Union (Luxembourg)
- the European Central Bank (Frankfurt)
- the European Court of Auditors (Luxembourg)

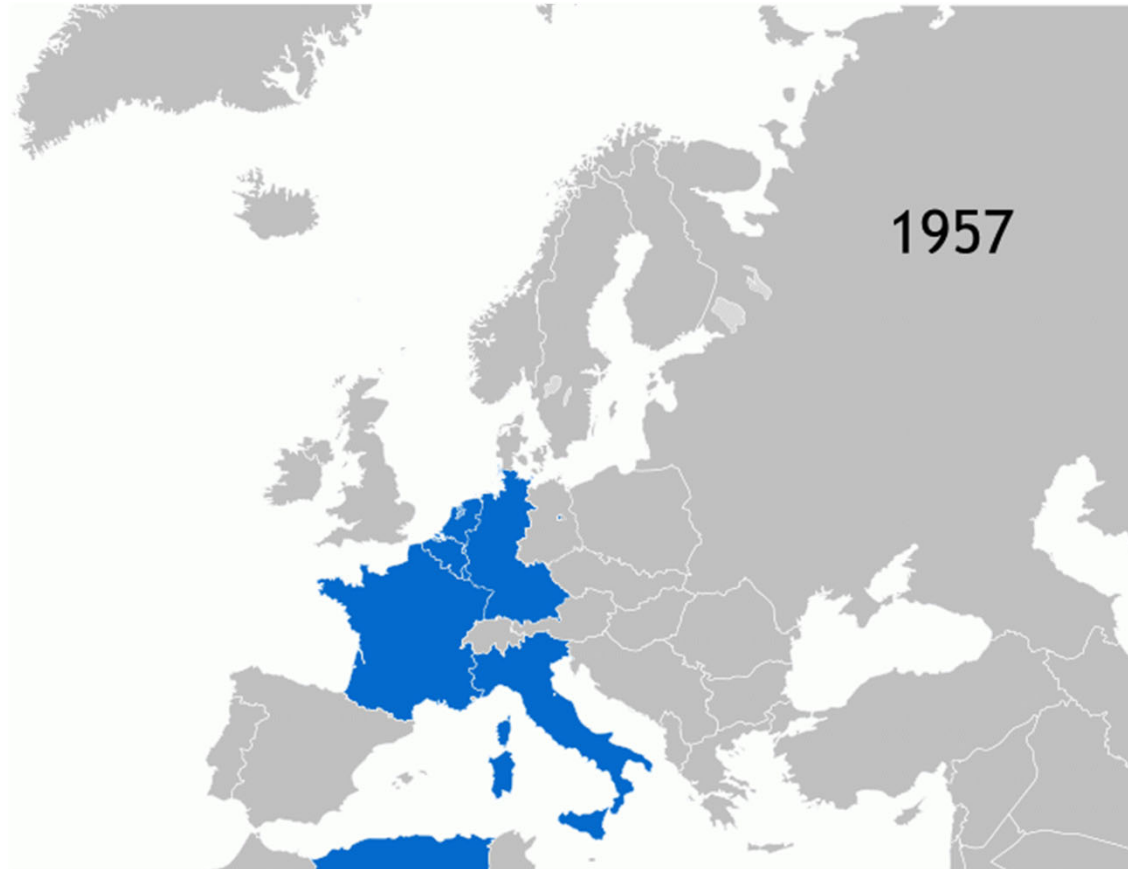


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The EU enlargement (i)





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Current candidate countries to join the EU are:

- Albania
- Moldova
- Montenegro
- North Macedonia
- Serbia
- Türkiye
- Ukraine

Potential candidates are :

- Bosnia and Herzegovina
- Kosovo
- Georgia

The EU enlargement (ii)



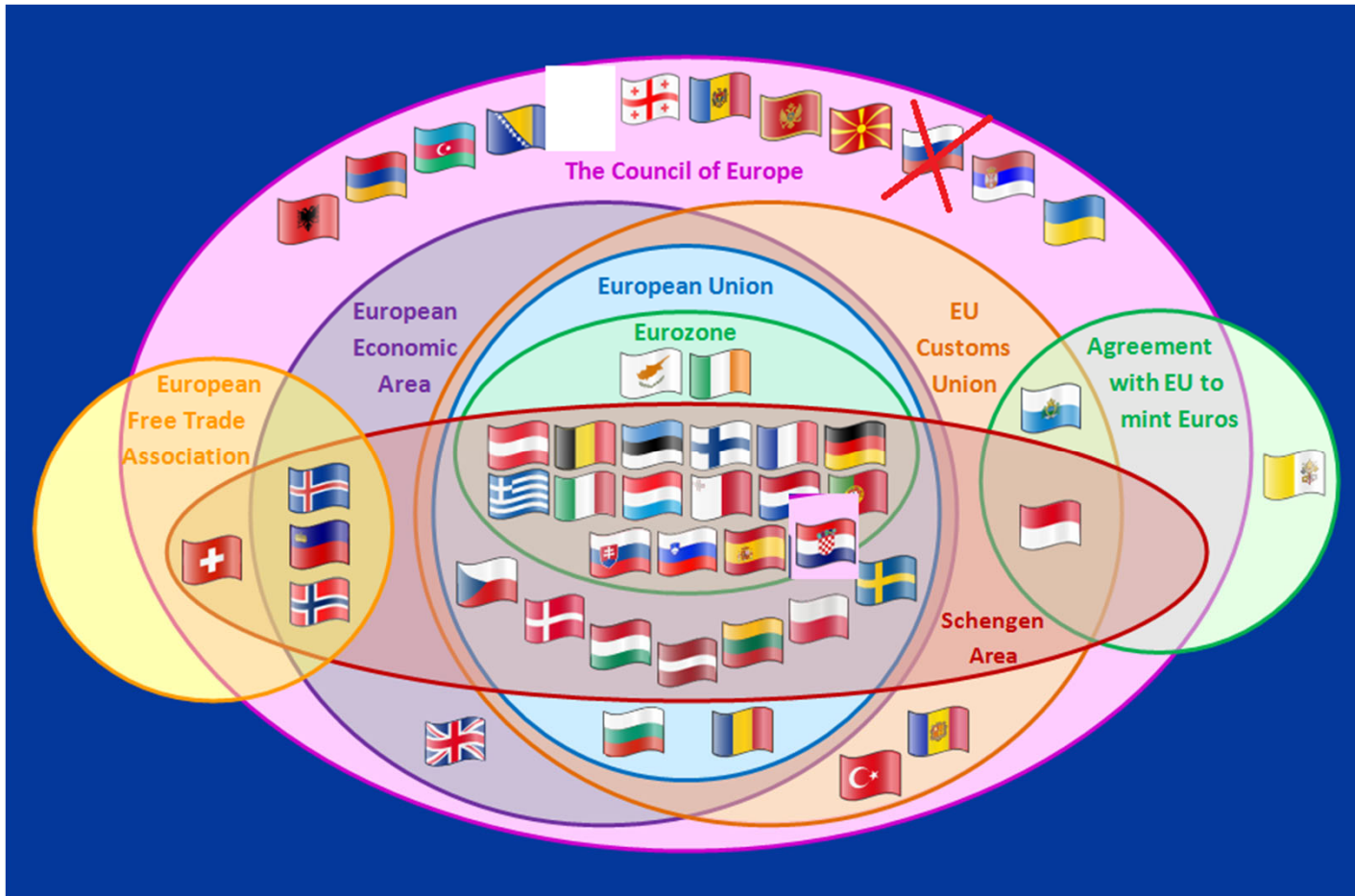


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A bit of confusion...





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The European Union

and the Environment

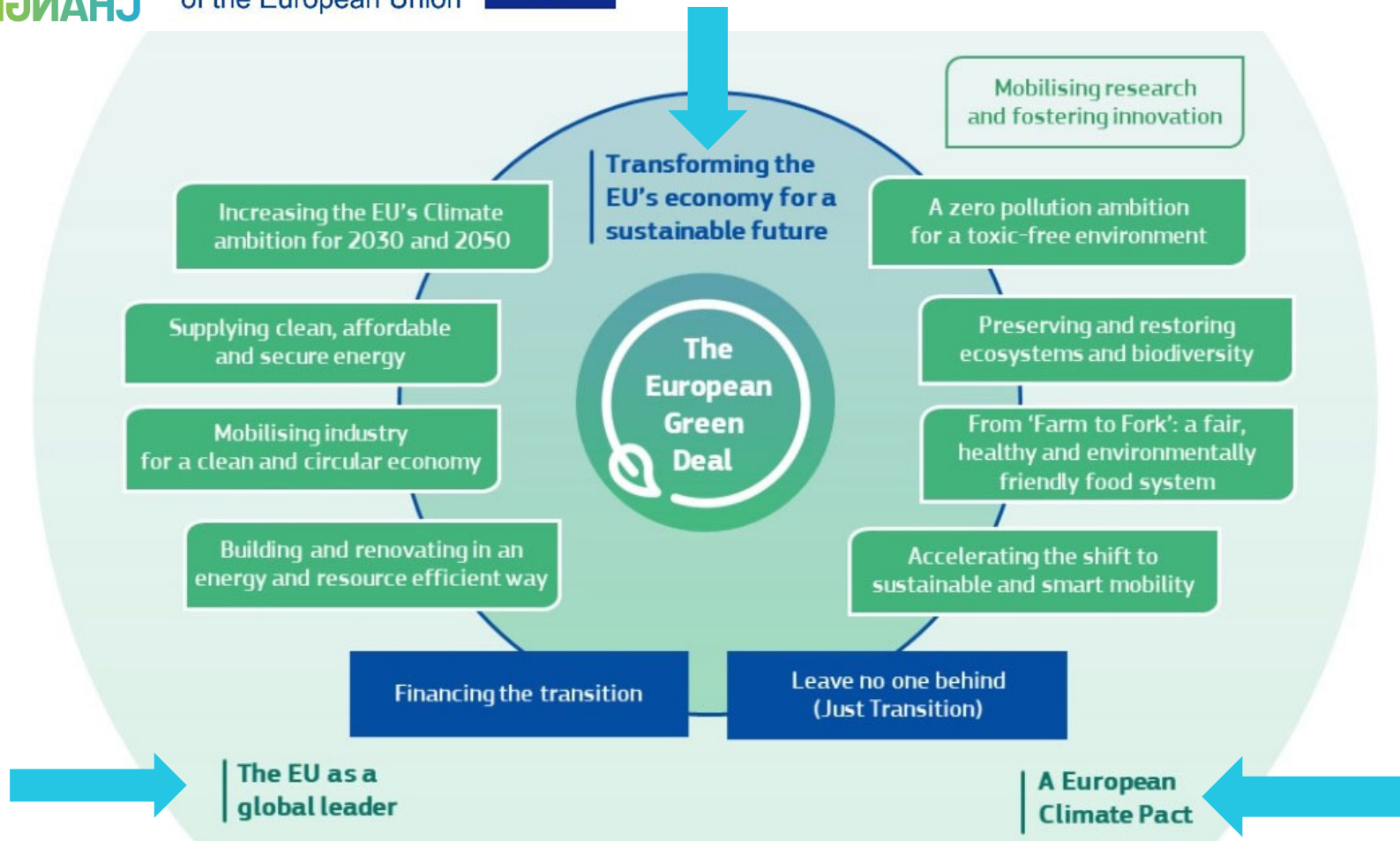


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The EU Green Deal (i)





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The EU Green Deal (ii)

Key figures

**The first climate-
neutral continent**
by 2050

At least 55% less
net greenhouse gas emissions by
2030, compared to 1990 levels

3 billion
additional trees to be planted in the EU
by 2030



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The EU Green Deal (iii)



fresh air, clean water, healthy soil
and biodiversity



renovated, energy efficient
buildings



healthy and affordable food



more public transport



cleaner energy and cutting-edge
clean technological innovation



longer lasting products that can be
repaired, recycled and re-used



future-proof jobs and skills training
for the transition



globally competitive and resilient
industry



Timeline

- 10 March 2023** The EU agrees stronger rules to boost energy efficiency
- 14 February 2023** The Commission proposes 2030 zero-emissions target for new city buses and 90% emissions reductions for new trucks by 2040
- 13 February 2023** The Commission sets out rules for renewable hydrogen
- 24 January 2023** Presentation of a 'A New Deal for Pollinators' to tackle the alarming decline in wild pollinating insects in Europe



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The EU Green Deal (v)

Advanced search

Search for press material from 1974 up to the present day.

Filter by

Keywords

Search in title only

Policy area

European Green Deal x

College member

- Any -

Document type

- Any -

Published before

Published after

Clear filter

Search

Search result (502)

Export

EC **Advanced Search:**
<https://ec.europa.eu/commission/presscorner/advancedsearch/en>

Demo with “EU Green Deal”: 502 results (at 21st March 2023).

On this webpage you can search for thousands of press material from 1974 to day



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Delivering the European Green Deal



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Smart & Sustainable Transport Strategy



55%

reduction of emissions
from cars by 2030

50%

reduction of emissions
from vans by 2030

0

emissions from new cars
by 2035





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Farm-to-Fork Strategy

The “**Farm-to-Fork**” (F2F) Strategy aims to accelerate our transition to a sustainable food system that should:

- have a **neutral or positive environmental impact**
- help to **mitigate climate change** and adapt to its impacts
- **reverse the loss of biodiversity**
- ensure **food security, nutrition and public health**, making sure that everyone has access to sufficient, safe, nutritious, sustainable food
- preserve **affordability of food while generating fairer economic returns**, fostering competitiveness of the EU supply sector and promoting fair trade

https://food.ec.europa.eu/horizontal-topics/farm-fork-strategy_en





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European Industrial Strategy

Europe is embarking on a transition towards climate neutrality and digital leadership.

The **European industrial strategy** aims to ensure that European industry can lead the way as we enter this new age.

There have been identified 14 Industrial ecosystems.

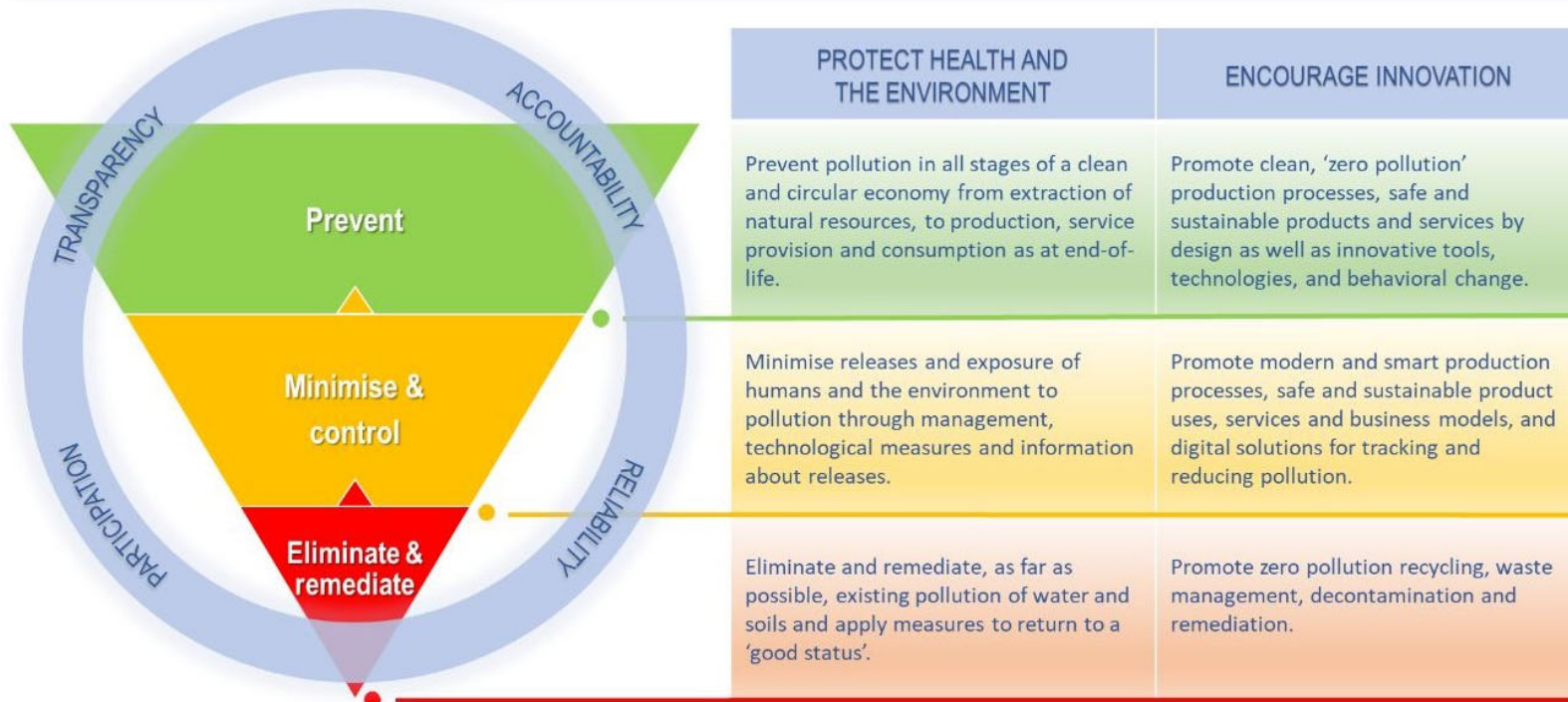
https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/europe-fit-digital-age/european-industrial-strategy_en





Zero-pollution Hierarchy

Union policy on the environment shall be based on the **precautionary principle** and on the principles that **preventive action** should be taken, that environmental damage should as a priority be **rectified at source** and on the **polluter pays principle**.





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Zero-pollution Action Plan

The Zero-Pollution Action Plan set out **9 flagship initiatives** and **33 actions**.

The **Zero-pollution targets for 2030**:

- **improving air quality** to reduce the number of premature deaths caused by air pollution by 55%;
- **improving water quality** by reducing waste, plastic litter at sea (by 50%) and microplastics released into the environment (by 30%);
- **improving soil quality** by reducing nutrient losses and chemical pesticides' use by 50%;
- **reducing by 25% the EU ecosystems** where air pollution threatens biodiversity;
- **reducing the share of people chronically disturbed** by transport noise by 30%;
- **significantly reducing waste generation** and by 50% residual municipal waste



https://environment.ec.europa.eu/strategy/zero-pollution-action-plan_en



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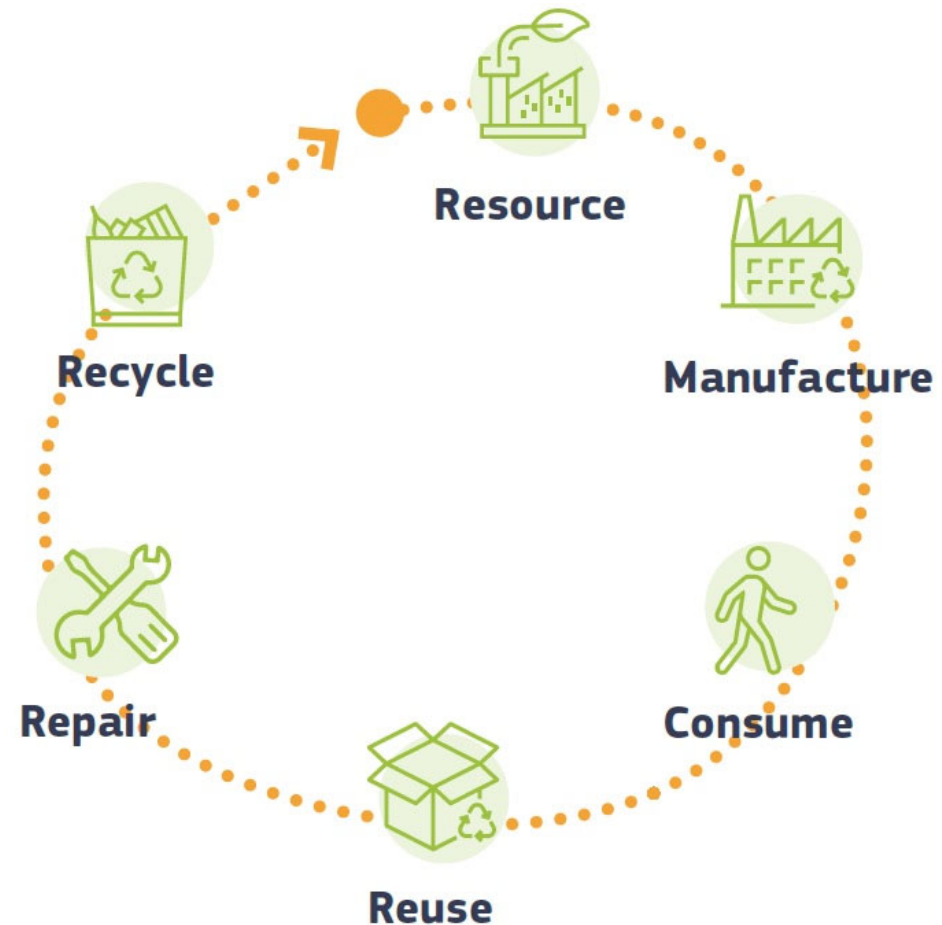
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Circular Economy Action Plan

The EC will implement 35 actions across the following topics:

- **Chemicals** – e.g. biocides, pesticides, pharmaceuticals or cosmetics (see REACH, ECHA, CLP..)
- **Circular economy** – it will help to decouple economic growth from resource use, protecting Europe's natural resources
- **Circular economy at the global level** – the EC in 2020 proposed the Global Alliance on Circular Economy and Resource Efficiency (GACERE)
- **Industry** – emissions
- **Plastics** – e.g. the EC Plastic Strategy
- **Sustainable development** – e.g. UN SDGs
- **Waste and recycling** – e.g. the EC Waste Framework Directive





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Waste Hierarchy

Despite existing legislation, **municipal waste generation has increased over the last decade**. Low recycling rates, as well as lower quality recyclates, are in part due to **inefficient** waste-collection systems.

2023 - The Commission is currently working on a **targeted revision of the Waste Framework Directive** and has conducted a preliminary analysis in the context of assessing impacts.

https://environment.ec.europa.eu/topics/waste-and-recycling/waste-framework-directive_en

WEEE (e-Waste) – Since 2012 there is the Waste Electrical and Electronic Equipment Directive

https://environment.ec.europa.eu/topics/waste-and-recycling/waste-electrical-and-electronic-equipment-weee_en





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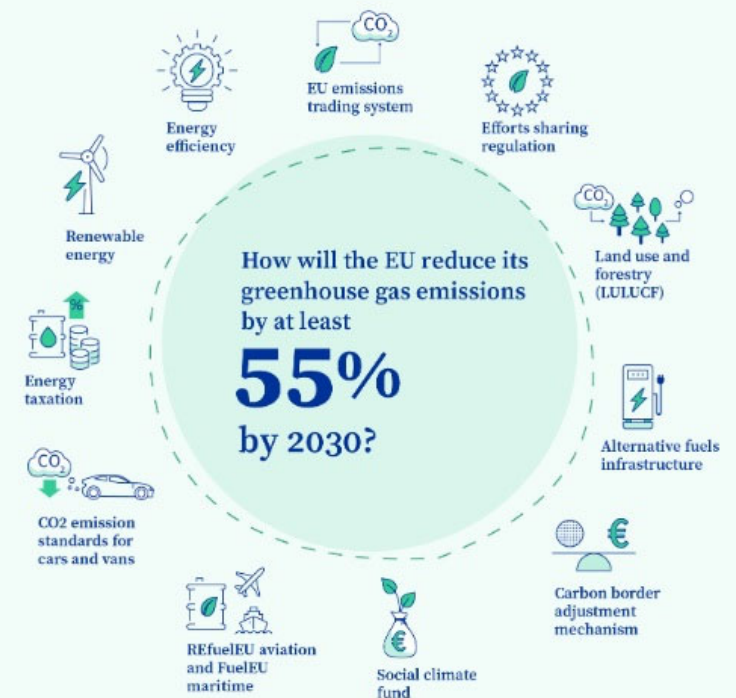
The European Council has set the goal for the EU to cut its greenhouse gas (GHG) emissions **by at least 55% by 2030**, compared to 1990, **and become climate neutral by 2050**. By the European climate law, these goals are binding for the EU and its member states.

To reach these goals, EU member states need to take concrete measures to reduce emissions and decarbonise the economy. New rules and updates of EU legislation are needed to make the green transition a reality.

The **“Fit for 55” package** is a set of legislative proposals and amendments to existing EU legislation that will help the EU cut its net greenhouse gas emissions and reach climate neutrality.

Fit for 55

Fit for 55: how the EU will turn climate goals into law





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The EU Funding programs



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EU funding schemes (some)



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European Union

European
Social Fund

**Interreg
Europe**



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EUROPEAN UNION

European Regional Development Fund



European Union

European Structural
and Investment Funds



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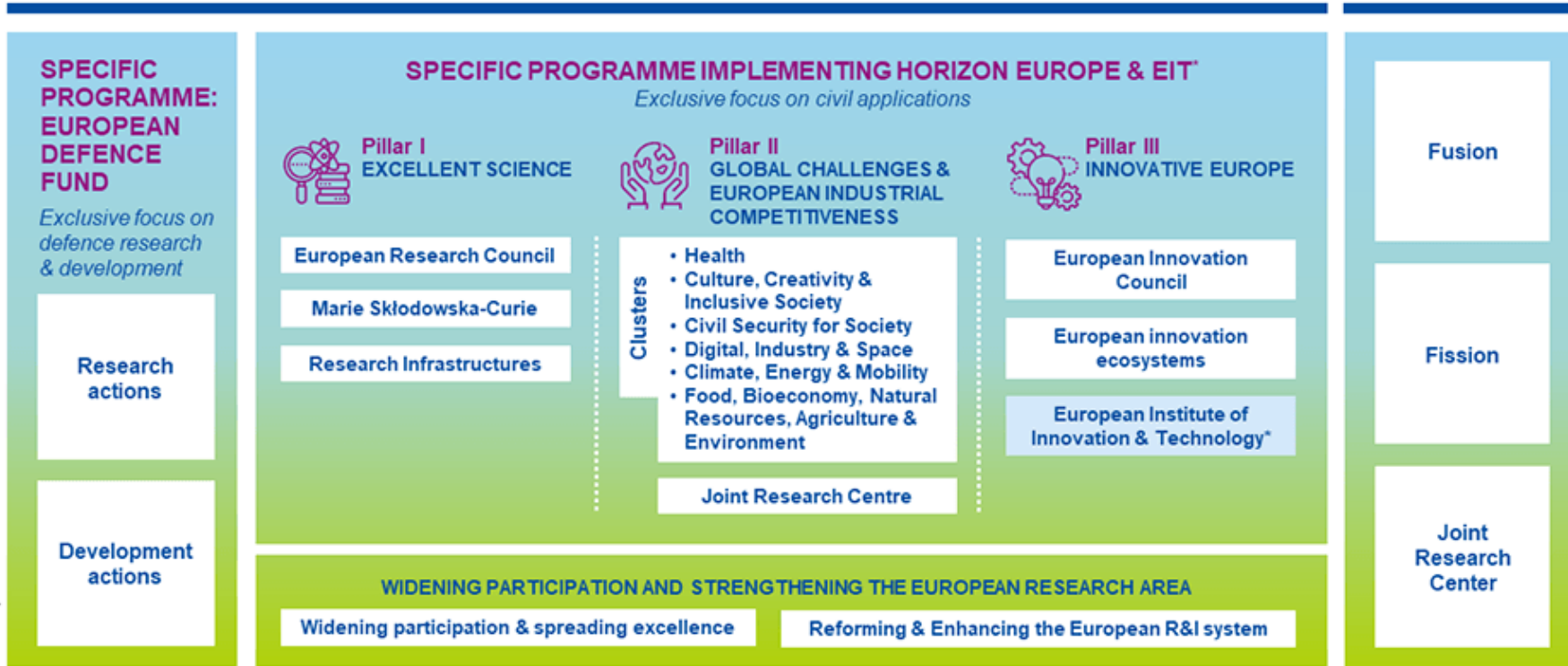


EU funding scheme:



HORIZON EUROPE

EURATOM



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



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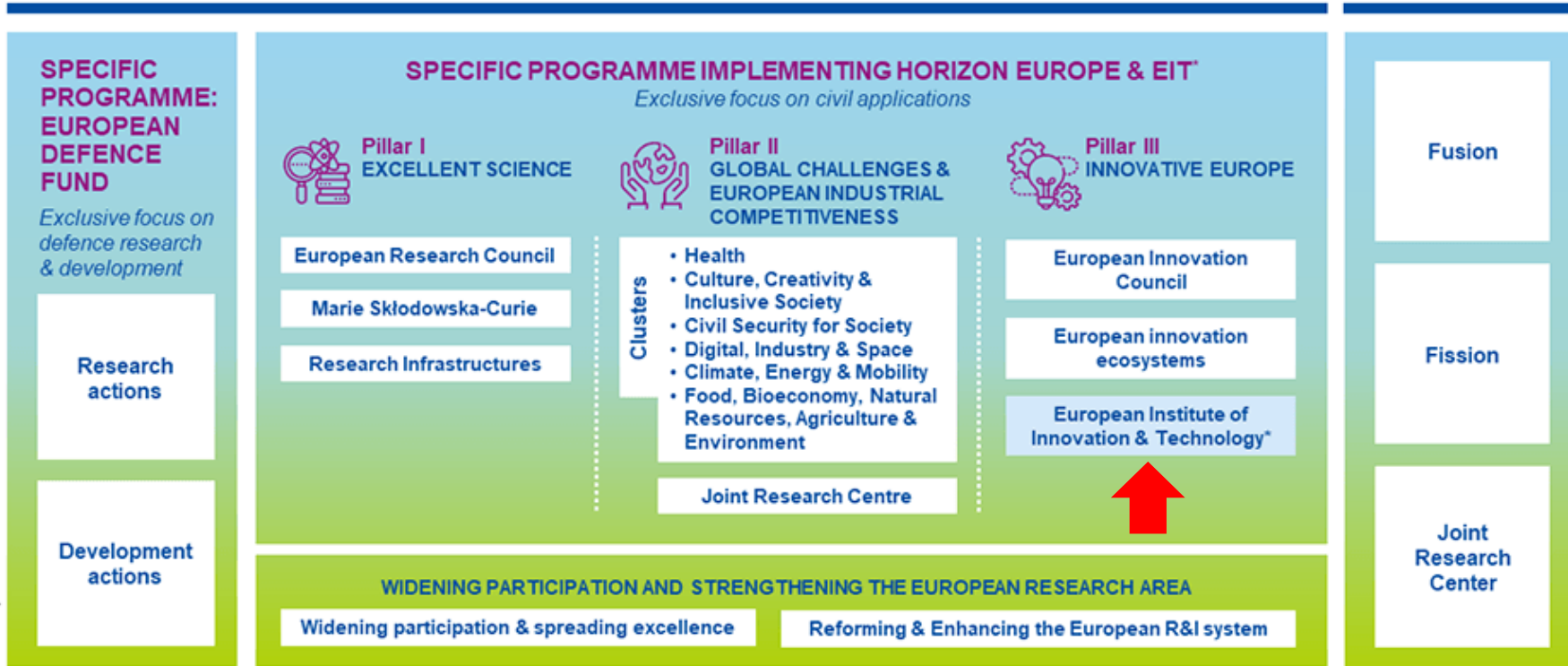


EU funding scheme:



HORIZON EUROPE

EURATOM



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EU funding scheme:

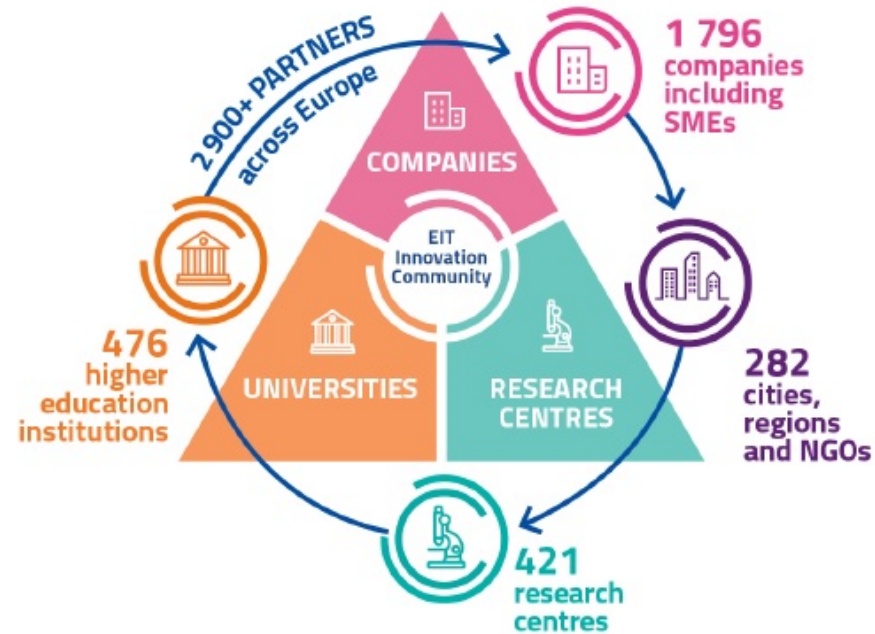


Europe's largest innovation community



European Institute of
Innovation & Technology

A body of the European Union





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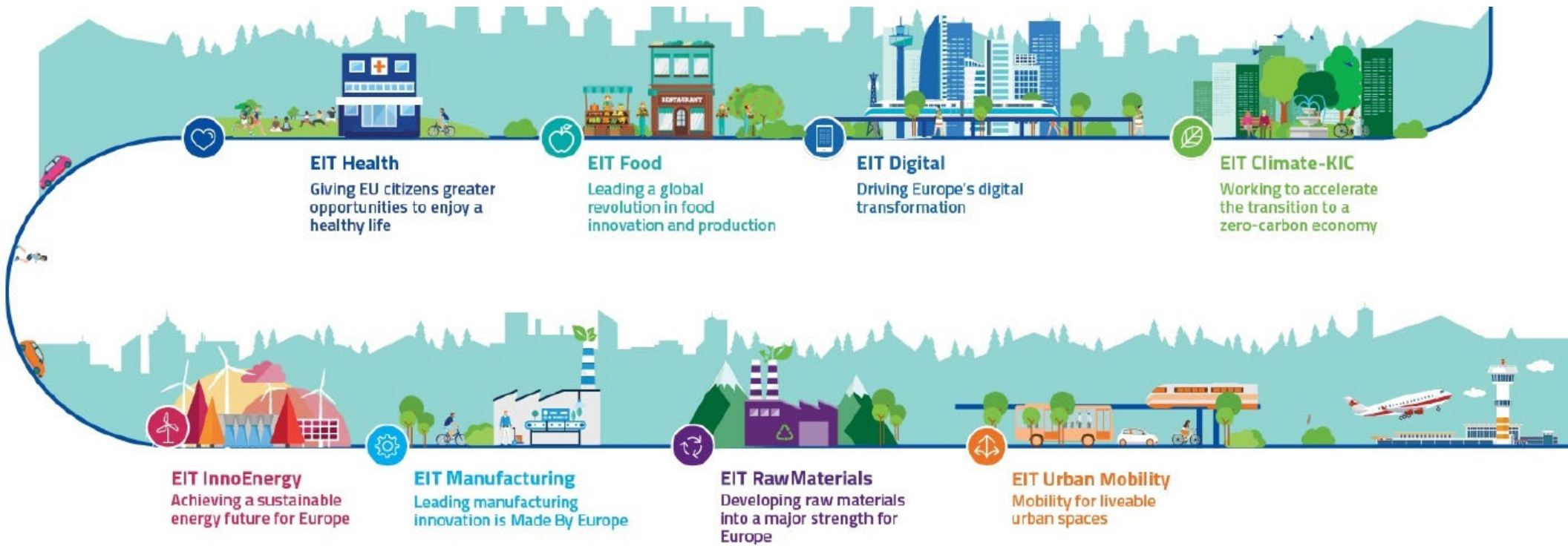


EU funding scheme:



European Institute of
Innovation & Technology

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EU funding scheme:



HORIZON EUROPE **CLUSTERS:**

1. Health
2. Culture, Creativity, and Inclusive Society
3. Civil Security for Society
4. Digital, Industry and Space
5. Climate, Energy and Mobility
6. Food, BioEconomy, Natural Resources, Agriculture and Environment



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EU funding scheme:



HORIZON EUROPE **MISSIONS**:

1. Adaptation to Climate Change
2. Beating Cancer
3. Restore Oceans and Waters by 2030
4. 100 Climate-Neutral and Smart Cities by 2030
5. A Soil Deal for Europe: 100 living labs and lighthouses to lead transition towards healthy soils by 2030



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EU funding scheme:



HORIZON EUROPE **EUROPEAN INNOVATION COUNCIL (EIC)**:

1. IDENTIFY – **EIC Pathfinder**: to research/develop an emerging breakthrough technology
2. DEVELOP – **EIC Transition**: building on promising research results to demonstrate technology and build business plans
3. SCALE UP – **EIC Accelerator**: funding and investments for individual start-ups and SMEs to develop/scale up game changing innovations

https://eic.ec.europa.eu/index_en



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The Horizon Europe 2023-24 Work Programme

Approved on 6th Dec 2022



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EU funding scheme:



HORIZON EUROPE CLUSTER 1 – Health

- Destination 1: Staying healthy in a rapidly changing society
- Destination 2: Living and working in a healthy-promoting environment
- Destination 3: Tackling diseases and reducing disease burden
- Destination 4: Ensuring access to innovative, sustainable and high-quality health care
- Destination 5: Unlocking the full potential of new tools, technologies and digital solutions for a healthy society



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EU funding scheme:



HORIZON EUROPE CLUSTER 2 – Culture, Creativity, and Inclusive Society

- Destination: Innovative research on democracy and governance
- Destination: Innovative research on European Cultural Heritage and Cultural and Creative Industries – Building our Future from the Past
- Destination: Innovative research on Social and Economic Transformations



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EU funding scheme:



HORIZON EUROPE CLUSTER 3 – Civil Security for Society

- 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



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EU funding scheme:



HORIZON EUROPE CLUSTER 4 – Digital, Industry and Space

- Destination 1: Climate neutral, Circular and Digitised Production
- Destination 2: Increased Autonomy in Key Strategic Value Chains for Resilient Industry
- Destination 3: World-leading Data and Computing Technologies
- Destination 4: Digital & Emerging Technologies for Competitiveness and Fit for the Green Deal
- Destination 5: Open Strategic Autonomy in Developing, Deploying and Using Global Space-Based Infrastructures, Services, Applications and Data
- Destination 6: A human-centred and ethical development of digital and industrial technologies



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EU funding scheme:



HORIZON EUROPE CLUSTER 5 – Climate, Energy and Mobility

- Destination 1: Climate sciences and responses for the transformation towards climate neutrality
- Destination 2: Cross-sectoral solutions for the climate transition
- Destination 3: Sustainable, secure and competitive energy supply
- Destination 4: Efficient, sustainable and inclusive energy use
- Destination 5: Clean and competitive solutions for all transport modes
- Destination 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods



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EU funding scheme:



HORIZON EUROPE CLUSTER 6 – Food, Bioeconomy, Natural Resources, Agriculture and Environment

- Destination 1: Biodiversity and ecosystem services
- Destination 2: Fair, healthy and environment-friendly food systems from primary production to consumption
- Destination 3: Circular economy and bioeconomy sectors
- Destination 4: Clean environment and zero pollution
- Destination 5: Land, ocean and water for climate action
- Destination 6: Resilient, inclusive, healthy and green rural, coastal and urban communities
- Destination 7: Innovative governance, environmental observations and digital solutions in support of the Green Deal

The logo for EPN Consulting features the text "EPN Consulting" in white, bold, sans-serif font inside a dark blue rectangular box. To the right of the box, a semi-circle of yellow stars is arranged, resembling the European Union flag. Below the box, the text "The European Professionals Network" is written in a smaller, dark blue, sans-serif font.

EPN Consulting

The European Professionals Network

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