

Horizon Europe Funding Opportunities - International Cooperation



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UCD Horizon 2020 (2014 to 2020)



203 SIGNED EU GRANTS
worth over €100M



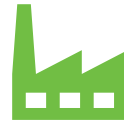
65 ERC / MSCA IF



138 Collaborative
Projects



59 Societal Challenge
Projects



21 Industrial
Leadership Projects



58 MSCA / other
Collaborative Projects

Creating a Sustainable Global Society

- Climate Change
- Bioeconomy
- Sustainable Agri-Food
- Energy
- Water
- Circular Economy
- Sustainable Cities and Communities
- Environment and Natural Resources



Building a Healthy World

- OneHealth
- Food for Health
- Tackling Disease
- Healthy Environments
- Cancer
- Healthcare Systems
- Staying Healthy
- Digital Health
- Personalised Health
- Medical Devices



Transforming through Digital Technology

- Data Science and Security
- Artificial Intelligence
- Internet of Things
- Advanced Manufacturing
- Advanced Materials
- Space Technology
- Digital Cultures
- Quantum Technology
- Business and Service Innovation



Empowering Humanity

- Behavioural Change
- Globalisation
- The Future of Work
- Democratic Governance
- Social and Economic Transformations
- Cultural Heritage
- Migration
- Truth and Trust
- Understanding the Universe



UCD Institute for Discovery



UCD Geary Institute
for Public Policy

Horizon Europe: Vision (2021-2027)

- A sustainable, fair and **prosperous** future for **people** and **planet**
- Tackling **climate change** (35 % budgetary target)
- Helping to achieve **Sustainable Development Goals**



Credit to: <https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Horizon Europe: International Cooperation

Mariya Gabriel (European Commissioner for Innovation, Research, Culture, Education and Youth) said that in 2021 and 2022, Horizon Europe will target international cooperation in about a quarter of its calls, with a total budget of €3 billion.

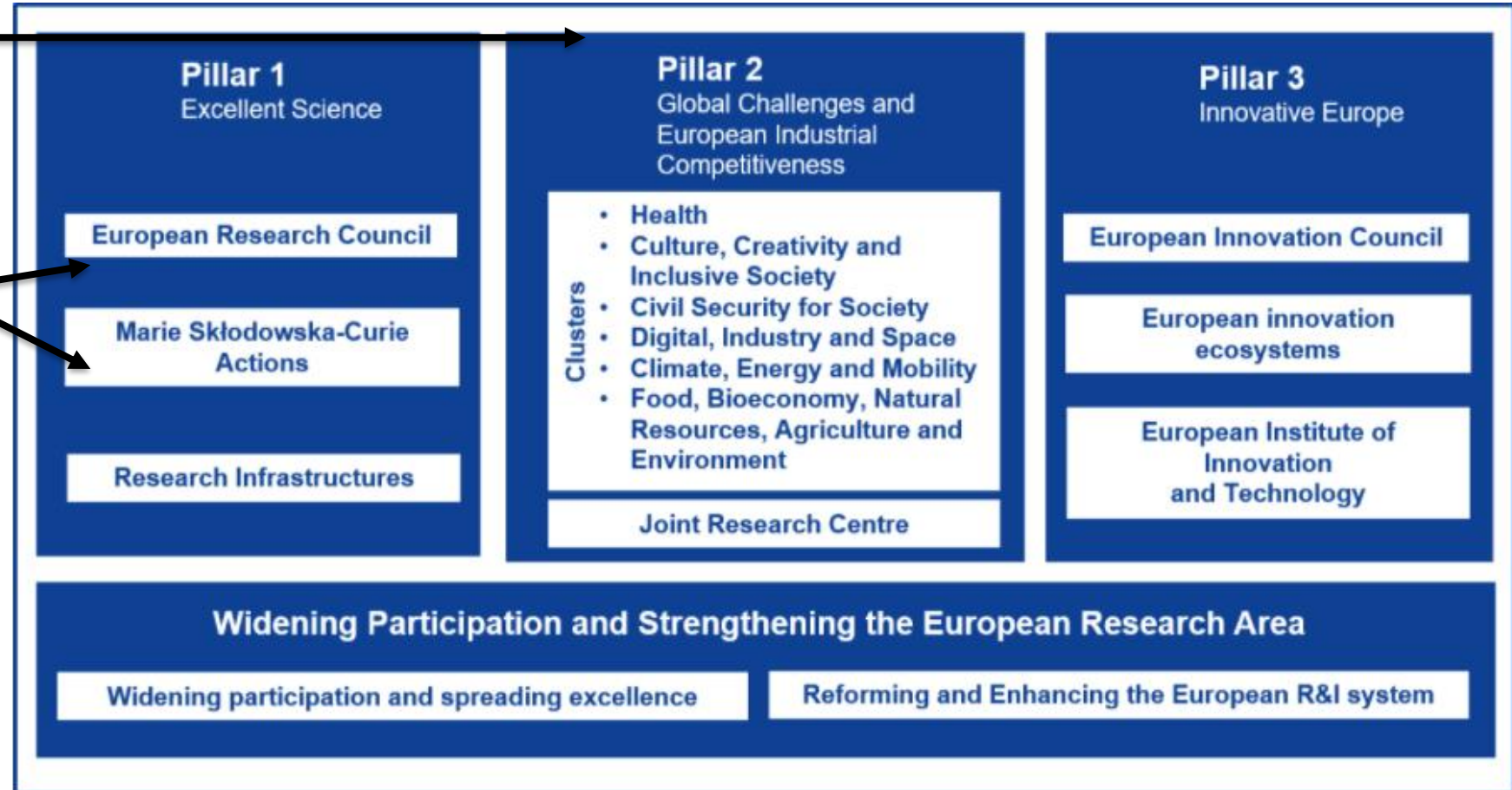
“We need access to the best minds and facilities around the world and we need our partners to implement [results],” said the commissioner.



Horizon Europe Structure

General openness to international participation

- For standard (cooperative) research projects: Min 3 participants from different Member States or associated countries, w/ min 1 of them from a Member State
- ✓ In addition, entities from any country in the world may participate
- For actions aimed at individuals, like the European Research Council or Marie Skłodowska-Curie Actions:
- ✓ Researchers of any nationality may apply



Horizon Europe - Clusters



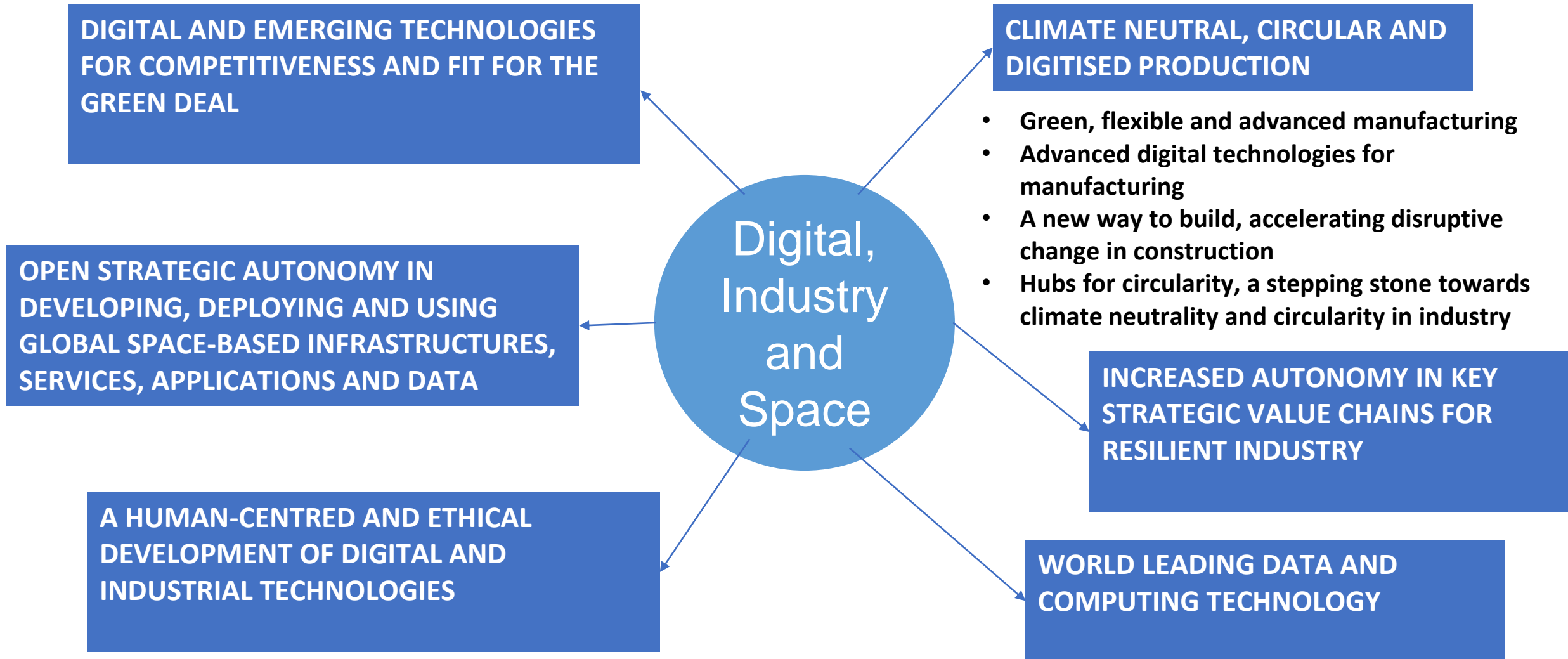
Areas for international cooperation

As open as possible, ...

- International cooperation is **cross-cutting**
- Horizon Europe is **generally open** to the participation of legal entities from anywhere in the world
- Work Programmes may include topics which explicitly **target cooperation** with one or more non-associated third countries, that are typically the result of policy dialogue with the targeted countries/regions, and they sometimes involve co-funding from their side
- Focus mainly on the 'Global challenges and European industrial competitiveness' pillar

*In **Horizon 2020**, a number of third countries make funding available for their participants in projects, e.g. Australia, China, India, Japan, Russia, South Korea and regions of Brazil and Canada. Some cover all topics – others selected topics.*

Horizon Europe – Digital, Industry and Space Cluster

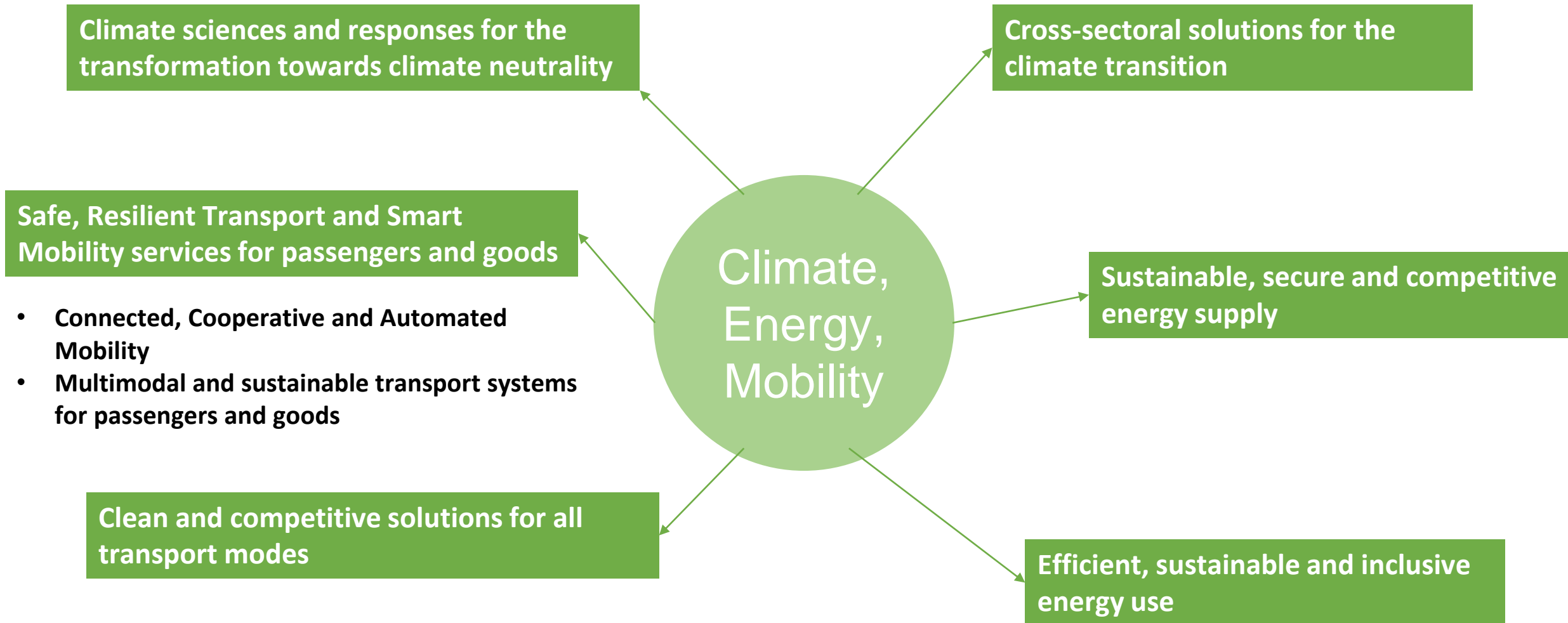


Horizon Europe – Digital, Industry and Space Cluster

Possible **targeted actions** in the Work Programme:

- **Encourage** international cooperation
- **HORIZON-CL4-2022-DIGITAL-EMERGING-01-35:** Advanced characterisation methodologies to assess and predict the health and environmental risks of nanomaterials
- **HORIZON-CL4-2022-RESILIENCE-01-16:** Building and renovating by exploiting advanced materials for energy and resources efficient management
- **HORIZON-CL4-2021-DIGITAL-EMERGING-01-26:** Coordination of European Smart Network actions
- **HORIZON-CL4-2022-RESILIENCE-01-10:** Innovative materials for advanced (nano)electronic components and systems
- **HORIZON-CL4-2022-RESILIENCE-01-11:** Advanced lightweight materials for energy efficient structures

Horizon Europe – Climate, Energy, Mobility Cluster

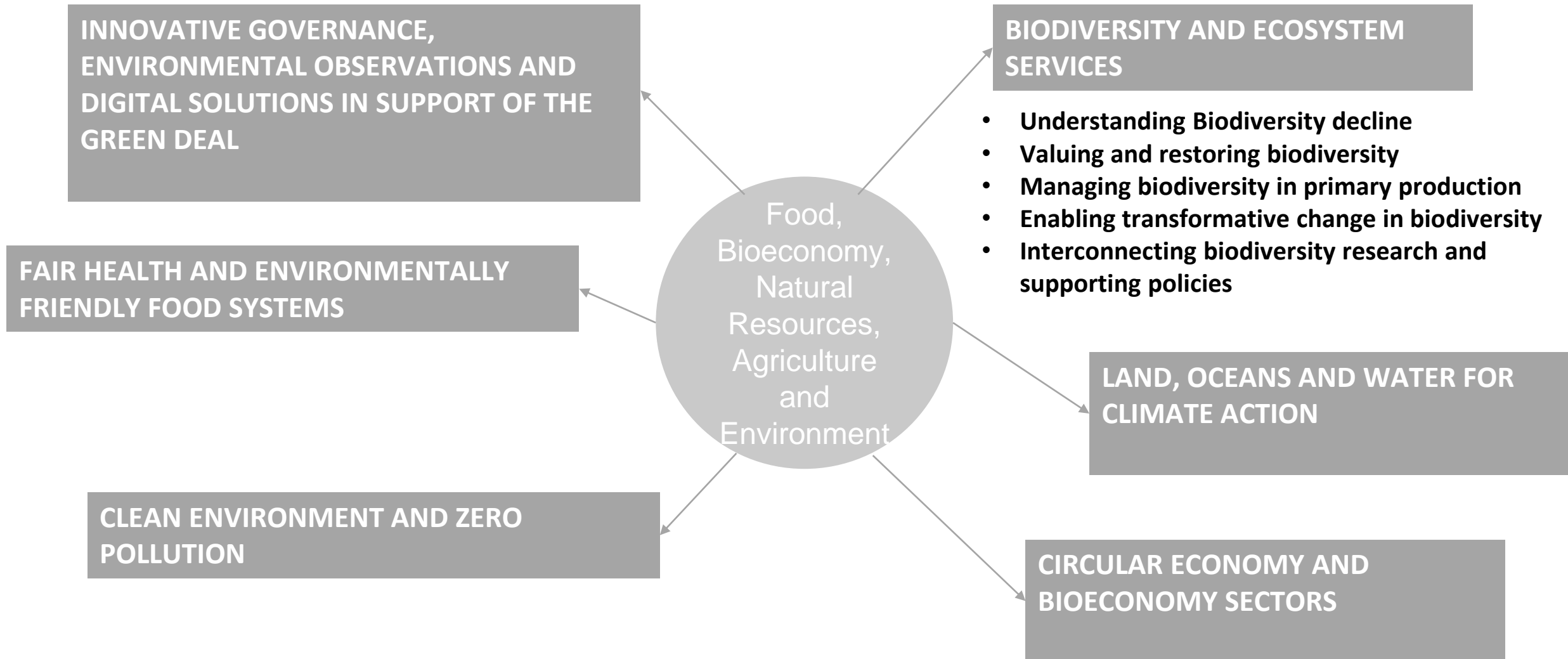


Horizon Europe – Climate, Energy, Mobility Cluster

Possible **targeted actions** in the Work Programme:

- **Encourage** international cooperation
- **HORIZON-CL5-2022-D6-01-05:** Artificial Intelligence (AI): Explainable and trustworthy concepts, techniques and models for CCAM
- **HORIZON-CL5-2022-D6-02-05:** Advanced multimodal network and traffic management for seamless door-to-door mobility of passengers and freight transport
- **HORIZON-CL5-2022-D4-02-01:** Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation
- **HORIZON-CL5-2022-D3-02-01:** Digital solutions for defining synergies in international renewable energy value chains

Horizon Europe – Food, Bioeconomy, Natural Resources, Agriculture and Environment



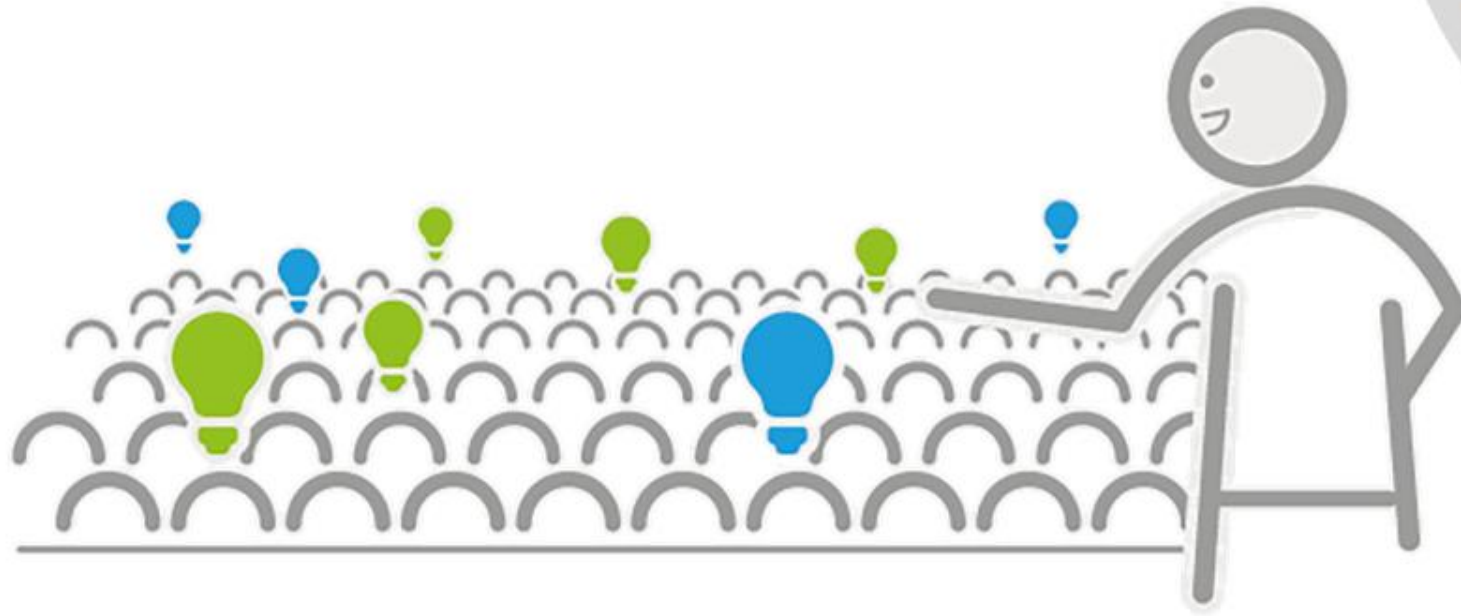
Horizon Europe – Cluster Food, Bioeconomy, Natural Resources, Agriculture and Environment

Possible **targeted actions** in the Work Programme:

- **Require** international cooperation
- **HORIZON-CL6-2021-FARM2FORK-01-18:** EU-China international cooperation on integrated pest management in agriculture
- **HORIZON-CL6-2022-CircBio-01-05:** EU-China international cooperation on unlocking the potential of agricultural residues and wastes for circular and sustainable bio-based solutions
- **HORIZON-CL6-2022-ZEROPOLLUTION-01-03:** EU-China international cooperation on nature-based solutions for nutrient management
- **HORIZON-CL6-2021-CLIMATE-01-10:** EU-China international cooperation on increasing the resilience of forests



Questions?



Thank you

