

HORIZON EUROPE CLUSTER 6

speaker: Patrick De Molder, NCP Flanders & Enterprise Europe Network Flanders

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Overview

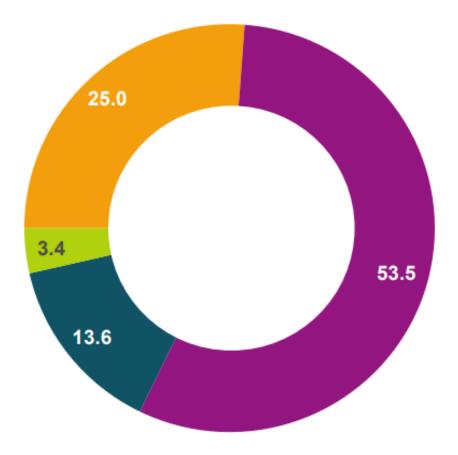
- Cluster 6 (Pillar II)
- European Partnerships (Pillar II)
- European Institute of Technology and Innovation EIT (Pillar III)
- European Innovation Council EIC (Pillar III)





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



Pillar II – Global challenges & industrial competetiveness

Budget 2021 - 2027



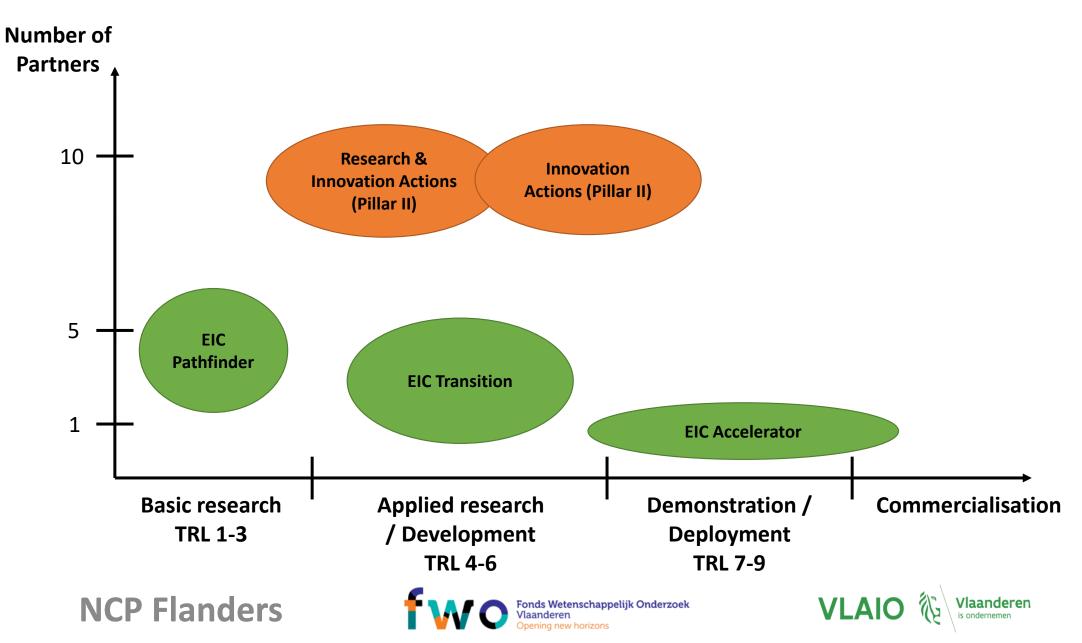
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Fonds Wetenschappelijk Onderzoek Vlaanderen



Horizon Europe – Choice of instruments



Pillar II – Global challenges & industrial competetiveness

- Impact-oriented contribution R&I to address EU policy priorities
- 'Top down' topics what is your solution to the problem?
- Collaborative projects (consortium)
 - \rightarrow Research organisations
 - \rightarrow Companies
 - \rightarrow Universities
 - \rightarrow Governmental organisations
 - \rightarrow ...
- Research & Innovation Activities







Pillar II – Main types of actions

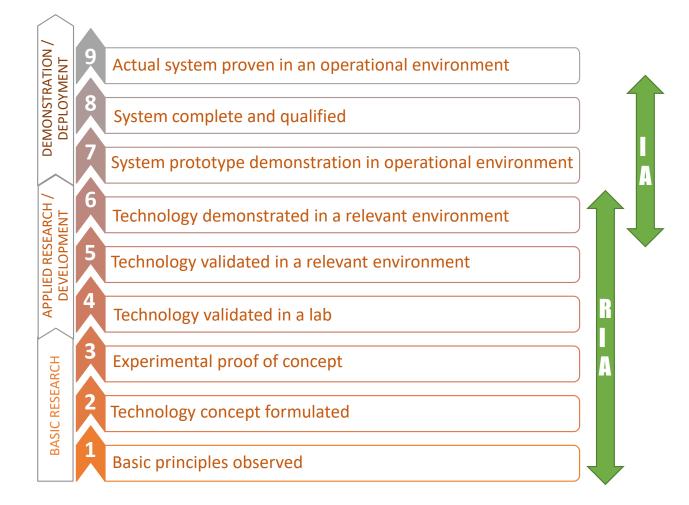
Type of action	Number of partners (with at least 1 partner from an EU Member State)	Funding
 Research and innovation action (RIA) Basic & applied research Technology development Possibly demonstrate in a lab or simulated environment 	≥ 3 established in different EU Member State or Associated Countries	Up to 100%
Innovation action (IA) - Prototyping, testing, demonstrating, piloting - Large-scale validation & market replication	≥ 3 established in different EU Member State or Associated Countries	Up to 70% (non-profit 100%)
Coordination and support actions	1 (mostly more)	Up to 100%







Pillar II – Technology Readiness Levels & Choice of instruments



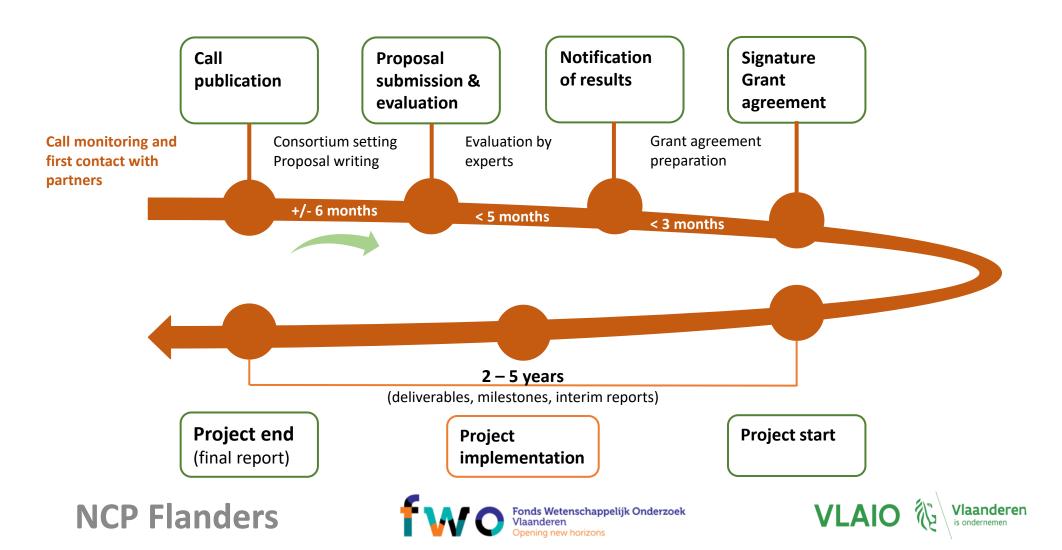
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Planning your proposal

Before you start - consider the whole Horizon Europe project life cycle



Pillar II – Cluster 6 : Destinations

DESTINATION 1	DESTINATION 2	DESTINATION 3		
Biodiversity and ecosystem services	Fair, healthy and environment- friendy food systems from primary production to consumption	Circular economy and bioeconomy sectors		
DESTINATION 4	DESTINATION 5	DESTINATION 6		
Clean environment and zero pollution	Land, ocean and water for climate action	Resilient, inclusive, healthy and green rural, coastal and urban communities		







Pillar II – Cluster 6 – calls in Draft

- 1. HORIZON-CL6-2024-FARM2FORK-01-7: Impact of the development of novel foods based on alternative sources of proteins : "Assess the potential of insect protein, micro and macro algae-based products, microbial proteins and/or food/aquaculture by-products in terms of market development taking into account the farm to fork strategy objectives based on up-to-date/new knowledge about them."
- 2. HORIZON-CL6-2023-CircBio-01-8: Eco-friendly consumer products low-toxicity/zero pollution construction bio-based materials : "Identifying and scaling bio-based materials for construction, including agro-forestry residues, fibers, recycled organics, and industrial by-products through enhanced biomass circularity. These materials may undergo further enhancement via fermentation, biomanufacturing, or biotechnology. Additionally, exploring the incorporation of living organisms like plants, algae, and fungi into construction materials for enhanced quality and environmental benefits. Potential applications span composites, insulation, adhesives, and more, depending on the chosen construction value chain.
- 3. HORIZON-CL6-2023-CircBio-01-11: Novel culturing of aquatic organisms for blue biotechnology applications "Scope: The biotechnological exploitation of both pelagic and benthic marine and other aquatic (such as the ones living in fresh waters, transitional waters and ice ecosystems) organisms often requires their cultivation and the optimisation of production yield for the compounds of interest. Aquatic biota, and in particular marine ones (bacteria, algae, fungi or invertebrates such as sponges, corals and molluscs), cannot be easily cultured. It is believed that just a fraction of 1% of marine bacteria can be cultured using existing methods, and viruses and bacterial and viral phages, present even greater challenges. The culturing of aquatic organisms offers a sustainable alternative to wild harvesting."







Pillar II – European Partnerships in the field of

- Water4All Partnership: Ensure long-term water security through systemic research and innovation transformations. First call: "A thriving sustainable blue economy for a brighter future." More info: https://www.water4all-partnership.eu/
- Sustainable Blue Economy Partnership (SBEP): A network of 60 partners from 25 countries. Planned investment of €450 million over seven years.More info: <u>https://bluepartnership.eu/</u>
- **Sustainable Food Systems Partnership:** Focuses on creating a sustainable food system for people, planet, and climate. Promotes strategic research and innovation for safer and sustainable food systems. More info: scar-europe.org
- Circular Bio-based Europe Joint Undertaking (CBE JU): Aims to unite bio-

based industry stakeholders to overcome sector challenges. Supports the transition to a circular bio-based economy. More info: <u>https://www.cbe.europa.eu/</u>







Pillar III – Innovative Europe

Stimulate & support creation & diffusion of breakthrough innovations

European Innovation Council (EIC)

 \rightarrow From supporting breakthrough technologies to bringing innovations to the market \rightarrow Scaling up

→Combination of various forms of financing, including capital investment (equity)

European Institute for Innovation & Technology (EIT)

→Brings together leading business, education & research organisations to stimulate innovation

→EIT supports the development of dynamic, long-term European partnerships among leading companies, research labs & higher education

=> EIT Knowledge and Innovation Communities (KICs)

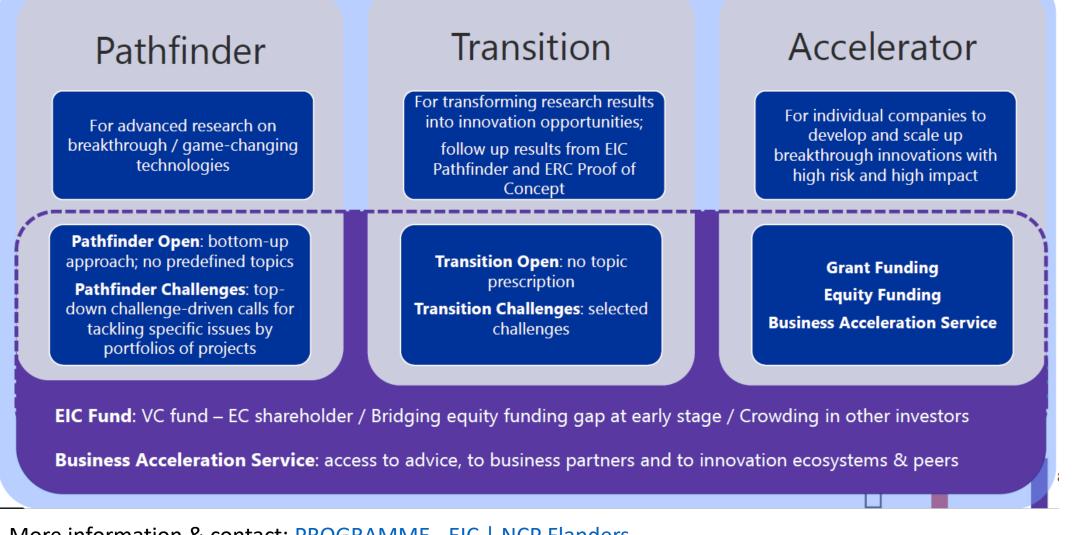
 \rightarrow Each KIC is dedicated to finding solutions to a specific global challenge e.g. health







European Innovation Council – Main support schemes



More information & contact: PROGRAMME - EIC | NCP Flanders

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European Innovation Council – Summary of main 2024 calls

Table 1. Summary of main calls in 2024⁵

			EIC Open		EIC Challenges		
Call	Who can apply	What for	Deadlines	Indicative Budget (EUR million)	EIC Challenge	Deadlines/ Cut-offs	Indicative Budget (EUR million)
EIC Pathfinder	Open call: only consortia can apply. Challenges call: smaller consortia (at least two eligible entities) or and single applicants as well as larger consortia.	Open Call: Grants up to EUR 3 million Challenge Call: Grants up to EUR 4 million. Higher amounts if duly justified. Projects to achieve the proof of principle and validate the scientific basis of breakthrough technologies (starting from early TRLs aiming at achieving TRL3 or 4)	7 March 2024	136	"Solar-to-X" devices Towards cement and concrete as a carbon sink Nature inspired alternatives for food packaging and films. Nanoelectronics for energy-efficient smart edge devices Protecting EU space infrastructure	16 October 2024	120
EIC Transition	Single applicants (SMEs, spin-offs, start-ups, research organisations, universities) or small consortia (minimum 2, maximum 5 eligible entities).		18 th September 2024	94			
EIC Accelerator	Single start-ups and SMEs (including spin-offs), individuals (intending to launch a start-up/ SME) and in exceptional cases small mid-caps (fewer than 499 employees).	Grant component below EUR 2.5M for innovation activities (starting at TRL 5 or 6 aiming at achieving higher TRLs) Investment component of EUR 0.5 up to 15 million for scaling up and other activities. Grant only and investment only component under certain conditions.	Short applications: any time (continuous) Full applications: 13 March 2024 3 October 2024	375	Human Centric Generative AI Virtual worlds and augmented interaction, including support to Industry 5.0 Enabling the smart edge & quantum technology components Food from precision fermentation and algae Monoclonal antibody based therapeutics for emerging viruses Renewable energy sources and their whole value chain	Short applications: any time (continuous) Full applications: 13 March 2024 3 October 2024	300

⁵ This table provides a simplified overview. All applicants need to read the relevant sections for the full information on eligibility and conditions for funding. Specific consortia eligibility conditions are described in Annex 2 of this current document. As affiliated entities do not sign the grant agreement, they do not count towards the minimum eligibility criteria for consortium composition (if any). The Director-General responsible for the call may decide to open the calls up to one month prior to or after the envisaged date(s) of opening. The Director-General responsible may delay the deadline(s) by up to two months.

European Institute for Innovation & Technology (EIT) – EIT Food

A leading initiative of food innovators supported by the EU.

• Goals:

- Enhance innovation in the food sector for a healthy and sustainable future.
- Strengthen food systems in Europe.
- Drive consumer confidence and improved global health.

• How to Participate:

- Open to startups, innovators, and entrepreneurs.
- Apply directly to EIT Food programmes.
- Terms range from free participation to success fee-based, with potential grants or options/equity.

• Programmes Open for Application:

• For a list of current opportunities, visit "Our Programmes" on the EIT Food website.

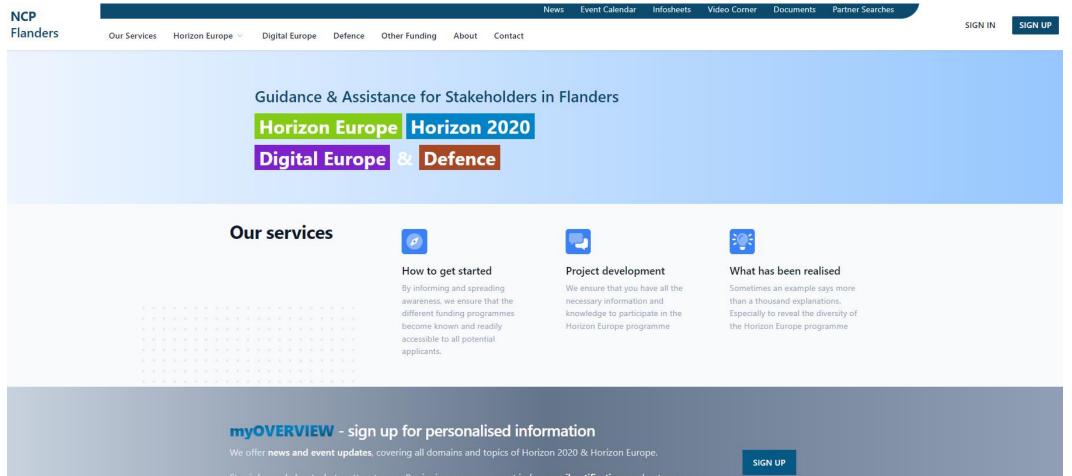
• More info: https://www.eitfood.eu/open-calls







NCP Flanders: www.ncpflanders.be



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Only for stakeholders located in Flander







EU Funding overview - website: www.eufundingoverview.be

Innovation 22

Research 22

- Growth 20
- Networking 13
- Dissemination 12
- Start 11

AREAS

Oceans and seas 26

- Innovation 71
- International Cooperation 71
- SMEs 58
- Partnerships with Industry & MS 56
- Environment & Climate Action 46
- Society 45
- Manufacturing 40
- Energy 38
- Funding Researchers 38
- ICT Research & Innovation 37
- Research Infrastructures 36
- Social Sciences and Humanities 36
- Health 34
- Agriculture and forestry 32
- Security 32
- Transport 31
- Food & Healthy Diet 28
- Biotechnology 25
- Culture & Creativity 25
- Show less

European Maritime, Fisheries and Aquaculture FUNDING Fund (EMFAF) - (European Structural and...

Fund for the EU's maritime and fisheries policies for 2014-2020

- SMEs, Large Enterprises, Government, Cities, Communities & NGOs, Knowledge Centers
- Grant,Loans & Investments e
- Research.Innovation.Growth.Infrastructure
- Environment & Climate Action, Food & Healthy Diet, Funding Researchers, Innovation, International Cooperation, Oceans a...

CLICK FOR DETAILS >

European Innovation Council and Small and AGENCY

Funds projects in the field of innovation, energy efficiency, environment and maritime affairs with a particular focus on SMEs

- SMEs
- Grant, Procurement, Networking e
- Research.Innovation.Growth.Infrastructure
- Energy, Environment & Climate Action, International Cooperation, Oceans and seas, Partnerships with Industry & ...

European Innovation Council and SMEs Executive AGENCY Agency (EISMEA)

The Agency implements the European Innovation Council and manages other EU programmes focusing on SME support, innovation and the single market

- SMEs, Large Enterprises, Government, Cities, Communities & 2 NGOs, Knowledge Centers
- Grant, Lump Sum, Loans & Investments, Equity 2 financing, Guarantees, Procurement, Networking, No direct...
- Research, Innovation, Growth, Start, Infrastructure, Networking, Di
- Agriculture and forestry, Bio-based Industries, Biotechnology, Energy, Environment & Ching & DETAILS >

European Innovation Council (EIC) funding opportunities - (under Horizon)

The EIC aims to identify and support breakthrough technologies and game changing innovations to create new markets and scale up internationally

- SMEs, Knowledge Centers
- Grant, Equity financing, Networking g
- Research.Innovation.Growth.Infrastructure
- Agriculture and forestry, Bio-based Industries, Biotechnology, Energy, Environment & Climate...

FUNDING

CLICK FOR DETAILS >

opening new nonzona

Medium-sized Enterprises Executive Agency...

1. Enterprise Europe Network – E.E.N.

- Support in finding suitable international partners (business & technology partners, Horizon Europe, R&D,....):
 - Partnering Opportunity Database (POD): <u>https://een.ec.europa.eu/partnering-opportunities</u>
 - International matchmaking events:
 - <u>https://www.enterpriseeuropevlaanderen.be/agenda-internationale-bedrijvencontactdagen</u>
 - <u>https://een.ec.europa.eu/events?f%5B0%5D=field_eventstartdate%3Anext_year</u>
 - Maritime Industries & Services Sector Group monthly newsletter
 - Contactperson: Patrick De Molder, <u>patrick.demolder@vlaio.be</u>, +32 497 59 33 90





