



FIT-4-NMP

Strategic and targeted support
to incentivise talented newcomers
to NMP projects under Horizon Europe

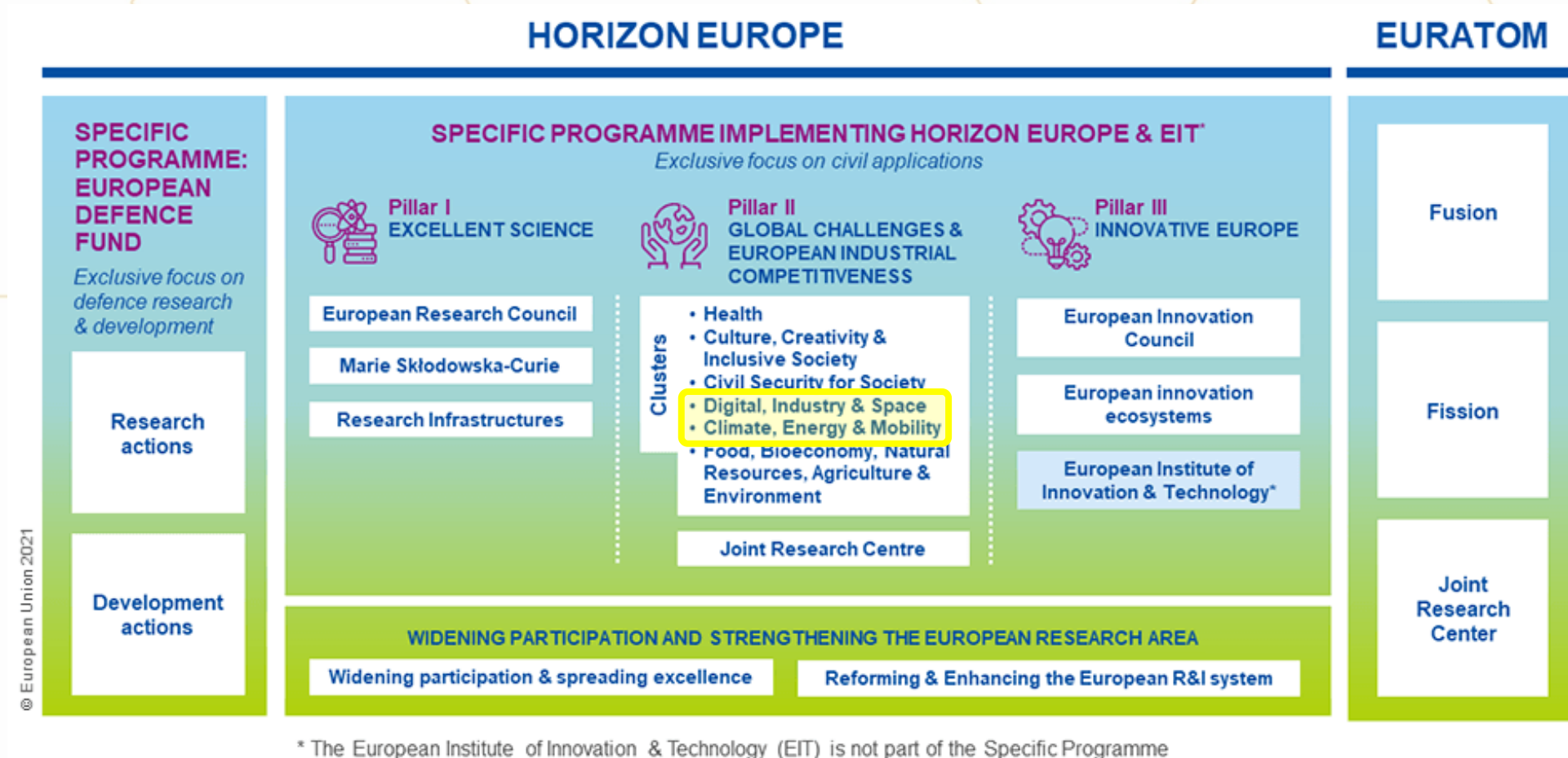
Review of forthcoming calls in Horizon Europe Clusters 4 and 5

Giles Brandon, Intelligentsia Consultants



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research and innovation programme under grant agreement No 958255

Horizon Europe Programme



Training focused on proposals for **Research and Innovation Actions (RIA)** and **Innovation Actions (IA)** under **Pillar II Cluster 4 (Digital, Industry and Space)** and **Cluster 5 (Climate, Energy and Mobility)**





See EC's "Funding & tender opportunities"

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-search>

AI, Data and Robotics for Industry optimisation (including production and services) (AI, Data and Robotics Partnership) (IA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-05

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status

Open for submission

Type of action HORIZON Innovation Actions

Deadline model

single-stage

Opening date 16 June 2022

Deadline date

16 November 2022 17:00:00 Brussels time

2D materials-based devices and systems for energy storage and/or harvesting (RIA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-18

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status

Open for submission

Type of action HORIZON Research and Innovation Actions

Deadline model

single-stage

Opening date 16 June 2022

Deadline date

16 November 2022 17:00:00 Brussels time



Pushing the limit of physical intelligence and performance (RIA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-06

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status

Open for submission

Type of action HORIZON Research and Innovation Actions

Deadline model

single-stage

Opening date 16 June 2022

Deadline date

16 November 2022 17:00:00 Brussels time





2D-material-based composites, coatings and foams (IA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-20

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Innovation Actions
Opening date 16 June 2022

Status **Open for submission**
Deadline model single-stage
Deadline date 16 November 2022 17:00:00 Brussels time



Increased robotics capabilities demonstrated in key sectors (AI, Data and Robotics Partnership) (IA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-07

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Innovation Actions
Opening date 16 June 2022

Status **Open for submission**
Deadline model single-stage
Deadline date 16 November 2022 17:00:00 Brussels time

New generation of advanced electronic and photonic 2D materials-based devices, systems and sensors (RIA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-17

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Research and Innovation Actions
Opening date 16 June 2022

Status **Open for submission**
Deadline model single-stage
Deadline date 16 November 2022 17:00:00 Brussels time



Supporting the coordination of the Graphene Flagship projects (CSA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-22

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Coordination and Support Actions
Opening date 16 June 2022

Status **Open for submission**
Deadline model single-stage
Deadline date 16 November 2022 17:00:00 Brussels time





2D materials-based devices and systems for biomedical applications (RIA)

HORIZON-CL4-2022-DIGITAL-EMERGING-02-19

Call for proposal

Grant

Programme Horizon Europe (HORIZON)
Type of action HORIZON Research and Innovation Actions
Opening date 16 June 2022

Status Open for submission
Deadline model single-stage
Deadline date 16 November 2022 17:00:00 Brussels time



AI for human empowerment (AI, Data and Robotics Partnership) (RIA)

HORIZON-CL4-2022-HUMAN-02-01

Call for proposal

Grant

Programme Horizon Europe (HORIZON)
Type of action HORIZON Research and Innovation Actions
Opening date 16 June 2022

Status Open for submission
Deadline model single-stage
Deadline date 16 November 2022 17:00:00 Brussels time

European Network of AI Excellence Centres: Expanding the European AI lighthouse (RIA)

HORIZON-CL4-2022-HUMAN-02-02

Call for proposal

Grant

Programme Horizon Europe (HORIZON)
Type of action HORIZON Research and Innovation Actions
Opening date 16 June 2022

Status Open for submission
Deadline model single-stage
Deadline date 16 November 2022 17:00:00 Brussels time





Development of digital solutions for existing hydropower operation and maintenance

HORIZON-CL5-2022-D3-03-08

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Research and Innovation Actions
Opening date 06 September 2022

Status **Forthcoming**
Deadline model single-stage
Deadline date 10 January 2023 17:00:00 Brussels time

Integrated wind farm control

HORIZON-CL5-2022-D3-03-04

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Research and Innovation Actions
Opening date 06 September 2022

Status **Forthcoming**
Deadline model single-stage
Deadline date 10 January 2023 17:00:00 Brussels time

Efficient and low-emission technologies for industrial use of combustion and gasification systems from low-value biogenic residues and wastes

HORIZON-CL5-2022-D3-03-06

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Research and Innovation Actions
Opening date 06 September 2022

Status **Forthcoming**
Deadline model single-stage
Deadline date 10 January 2023 17:00:00 Brussels time

Recycling end of life PV modules

HORIZON-CL5-2022-D3-03-09

[Call for proposal](#)

[Grant](#)

Programme Horizon Europe (HORIZON)
Type of action HORIZON Innovation Actions
Opening date 06 September 2022

Status **Forthcoming**
Deadline model single-stage
Deadline date 10 January 2023 17:00:00 Brussels time





Innovative components and/or sub-systems for CSP plants and/or concentrating solar thermal installations

HORIZON-CL5-2022-D3-03-01

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Type of action HORIZON Innovation Actions

Opening date 06 September 2022

Status Forthcoming

Deadline model single-stage

Deadline date 10 January 2023 17:00:00 Brussels time

Novel Thin Film (TF) technologies targeting high efficiencies

HORIZON-CL5-2022-D3-03-05

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Type of action HORIZON Research and Innovation Actions

Opening date 06 September 2022

Status Forthcoming

Deadline model single-stage

Deadline date 10 January 2023 17:00:00 Brussels time



Development of algal and renewable fuels of non-biological origin

HORIZON-CL5-2022-D3-03-07

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Type of action HORIZON Research and Innovation Actions

Opening date 06 September 2022

Status Forthcoming

Deadline model single-stage

Deadline date 10 January 2023 17:00:00 Brussels time

Best international practice for scaling up sustainable biofuels

HORIZON-CL5-2022-D3-03-02

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Type of action HORIZON Research and Innovation Actions

Opening date 06 September 2022

Status Forthcoming

Deadline model single-stage

Deadline date 10 January 2023 17:00:00 Brussels time



Support to the activities of technology areas of the SET Plan: Action dedicated to energy efficiency in industry

HORIZON-CL5-2022-D4-02-06

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status Forthcoming

Type of action HORIZON Coordination and Support Actions

Deadline model single-stage

Opening date 06 September 2022

Deadline date 24 January 2023 17:00:00 Brussels time

Sustainable and resource-efficient solutions for an open, accessible, inclusive, resilient and low-emission cultural heritage: prevention, monitoring, management, maintenance, and renovation (Built4People)

HORIZON-CL5-2022-D4-02-03

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status Forthcoming

Type of action HORIZON Research and Innovation Actions

Deadline model single-stage

Opening date 06 September 2022

Deadline date 24 January 2023 17:00:00 Brussels time

Smart-grid ready and smart-network ready buildings, acting as active utility nodes (Built4People)

HORIZON-CL5-2022-D4-02-04

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status Forthcoming

Type of action HORIZON Innovation Actions

Deadline model single-stage

Opening date 06 September 2022

Deadline date 24 January 2023 17:00:00 Brussels time

More sustainable buildings with reduced embodied energy / carbon, high life-cycle performance and reduced life-cycle costs (Built4People)

HORIZON-CL5-2022-D4-02-05

Call for proposal

Grant

Programme Horizon Europe (HORIZON)

Status Forthcoming

Type of action HORIZON Innovation Actions

Deadline model single-stage

Opening date 06 September 2022

Deadline date 24 January 2023 17:00:00 Brussels time





Designs, materials and solutions to improve resilience, preparedness & responsiveness of the built environment for climate adaptation (Built4People)

HORIZON-CL5-2022-D4-02-01

Call for proposal

Grant

Programme Horizon Europe (HORIZON)
Type of action HORIZON Innovation Actions
Opening date 06 September 2022

Status **Forthcoming**
Deadline model single-stage
Deadline date 24 January 2023 17:00:00 Brussels time

Solutions for the sustainable, resilient, inclusive and accessible regeneration of neighbourhoods enabling low carbon footprint lifestyles and businesses (Built4People)

HORIZON-CL5-2022-D4-02-02

Call for proposal

Grant

Programme Horizon Europe (HORIZON)
Type of action HORIZON Innovation Actions
Opening date 06 September 2022

Status **Forthcoming**
Deadline model single-stage
Deadline date 24 January 2023 17:00:00 Brussels time

CASSINI Prize for digital space applications

HORIZON-EUSPA-2022-MARITIME-PRIZE

Call for proposal

Grant

Programme Horizon Europe (HORIZON)
Type of action HORIZON Inducement Prize
Opening date 05 July 2022

Status **Open for submission**
Deadline model single-stage
Deadline date 03 May 2023 17:00:00 Brussels time





Hop-On Facility (1 of 2)

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-widera-2022-access-07-01>

- Chance for one additional participant from a Widening country to join a project (i.e. with a signed grant agreement) funded under the **Horizon Europe Pillar 2** or **EIC pathfinder** schemes, which does not already have a participant from a Widening country.
- To include the additional participant, an extra budget between 200,000 – 500,000 euro can be requested with up to 10% allocated to the coordinator of the consortium.
- Next cut-off date: 10 November 2022 (to be continued in 2023)
- List of eligible Horizon Europe Pillar 2 and EIC pathfinder projects (to contact coordinators):
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/horizon/hop-on>





Hop-On Facility (2 of 2)

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-widera-2022-access-07-01>

Quantum Control of Gravity with Levitated Mechanics

ID	101046973	Topic	HORIZON-EIC-2021-PATHFINDEROPEN-01-01
Acronym	QuCoM	Programme part	The European Innovation Council (EIC)

ulTRafast hOlograPHic FTIR microscopY

ID	101047137	Topic	HORIZON-EIC-2021-PATHFINDEROPEN-01-01
Acronym	TROPHY	Programme part	The European Innovation Council (EIC)

Energy Storage in Molecules

ID	101046364	Topic	HORIZON-EIC-2021-PATHFINDEROPEN-01-01
Acronym	ESiM	Programme part	The European Innovation Council (EIC)

Novel Opaque Scintillator Technology for Nuclear Industry Imaging based on Anti-Matter Detection

ID	101047028	Topic	HORIZON-EIC-2021-PATHFINDEROPEN-01-01
Acronym	AntiMatter-OTech	Programme part	The European Innovation Council (EIC)

Currently 165 projects listed including the following ...



Draft Work Programmes 2023-2024 for Clusters 4 and 5



Cluster 4 – Digital, Industry and Space

Preliminary list of ideas for discussion regarding potential topics for the Work Programme 2023-24, v 31/01/22

DISCLAIMER

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In particular, draft topics do not represent any commitment and do not necessarily include all aspects of the scope or address all cross-cutting aspects, such as international cooperation, social sciences and humanities, social innovation, gender, standardisation, synergies etc..

Contents

Cluster 4 – Digital, Industry and Space.....	1
DISCLAIMER.....	1
1. Destination: Climate neutral, Circular and Digitised Production.....	10
1.1 Manufacturing Industry.....	10
HORIZON-CL4-2023[2024]-TWIN-TRANSITION-01-01: Advanced manufacturing of bio-based technology (Made in Europe) (IA).....	10

Horizon Europe

Work Programme 2023-2024

Climate, Energy and Mobility

Version 28 January 2022

Please note that:

- This document is work in progress and subject to changes.
- Budgetary information included in this document is preliminary.
- Implementation aspects (calls, lump sums etc.) are not yet included.
- Actions may be added, removed, merged or changed in future versions.

See <https://sciencebusiness.net/news/horizon-papers-draft-work-programmes-leak-again> (March 2022) and/or ask for latest drafts from your institution's Research Administration Office or Horizon Europe NCPs.

