

Topic Preview 2023-2024

Horizon Europe Framework Programme

Cluster 4 “Digital”

Swiss Participation in Horizon Europe

Switzerland is as a non-associated third country to Horizon Europe. Restrictions to the participation of Swiss entities apply to some topics: **these topics are highlighted in red**. For more information refer to the [Euresearch website](#).

! On 2023-10-19, the EC announced the cancellation of topics HORIZON-CL4-2024-HUMAN-01-06 and HORIZON-CL4-2024-HUMAN-01-07, HORIZON-CL4-2024-DIGITAL-EMERGING-01-34, HORIZON-CL4-2024-DIGITAL-EMERGING-01-42 and HORIZON-CL4-2024-HUMAN-01-61. These be reworked or postponed and are expected to open in April 2024.

1. Work Programmes, Calls, and Topics

Horizon Europe is divided into several Work Programmes, calls, and topics. The following tables give a preview of the open and forthcoming topics.

HORIZON-CL4-2024-DATA-01 - World leading data and computing technologies

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL4-2024-DATA-01-01	AI-driven data operations and compliance technologies (AI, data and robotics partnership) (IA)	HORIZON-IA	single-stage	19.03.2024
HORIZON-CL4-2024-DATA-01-03	Piloting emerging Smart IoT Platforms and decentralized intelligence (IA)	HORIZON-IA	single-stage	19.03.2024
HORIZON-CL4-2024-DATA-01-05	Platform Building, standardisation and Up-scaling of the ‘Cloud-Edge-IoT’ Solutions (Horizontal Activities - CSA)	HORIZON-CSA	single-stage	19.03.2024

HORIZON-CL4-2024-DIGITAL-EMERGING-01 - Digital and emerging technologies for competitiveness and fit for the Green Deal

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL4-2024-DIGITAL-EMERGING-01-03	Novel paradigms and approaches, towards AI-powered robots– step change in functionality (AI, data and robotics partnership) (RIA)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-04	Industrial leadership in AI, Data and Robotics boosting competitiveness and the green transition (AI Data and Robotics Partnership) (IA)[https://www.europarl.europa.eu/RegData/etudes/STUD/2021/662906/IPOL_STU(2021)662906_EN.pdf]	HORIZON-IA	single-stage	19.03.2024

HORIZON-CL4-2024-DIGITAL-EMERGING-01-22	Fundamentals of Software Engineering (RIA)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-54	Smart photonics for joint communication & sensing and access everywhere (Photonics Partnership) (RIA)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-55	Photonics Innovation Factory for Europe (Photonics Partnership) (IA)	HORIZON-IA	single-stage	19.03.2024

HORIZON-CL4-2024-DIGITAL-EMERGING-01-CNECT - Digital and emerging technologies for competitiveness and fit for the Green Deal

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL4-2024-DIGITAL-EMERGING-01-21	Open Source for Cloud/Edge to support European Digital Autonomy (RIA)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-23	Public recognition scheme for Open Source (CSA)	HORIZON-CSA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-31	Pilot line(s) for 2D materials-based devices (RIA)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-34	Synergy with national and regional initiatives in Europe (CSA)	HORIZON-CSA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-42	Stimulating transnational research and development of next generation quantum technologies, including basic theories and components (Cascading grant with FSTP)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-DIGITAL-EMERGING-01-45	Quantum sensing and metrology for market uptake (IA)	HORIZON-IA	single-stage	19.03.2024

HORIZON-CL4-2024-HUMAN-01 - A human-centred and ethical development of digital and industrial technologies

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL4-2024-HUMAN-01-06	Explainable and Robust AI (AI Data and Robotics Partnership) (RIA)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-HUMAN-01-07	Collaborative intelligence – combining the best of machine and human (AI Data and Robotics Partnership) (RIA)	HORIZON-RIA	single-stage	19.03.2024
HORIZON-CL4-2024-HUMAN-01-34	Support for transnational activities of National Contact Points in the thematic areas of Digital, Industry and Space (CSA)	HORIZON-CSA	single-stage	19.03.2024
HORIZON-CL4-2024-HUMAN-01-61	Facilitate the engagement in global ICT standardisation development (CSA)	HORIZON-CSA	single-stage	19.03.2024

Digital-related Research in other Clusters

HORIZON.2.5 - Climate, Energy and Mobility

HORIZON-CL5-2024-D2-01 - Cross-sectoral solutions for the climate transition

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
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A competitive and sustainable European battery value chain

HORIZON-CL5-2024-D2-01-05	Furthering the development of a materials acceleration platform for sustainable batteries (combining AI, big data, autonomous synthesis robotics, high throughput testing) (Batt4EU Partnership)	HORIZON-RIA	single-stage	18.04.2024
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HORIZON-CL5-2024-D3-01 - Sustainable, secure and competitive energy supply

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
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Energy systems, grids & storage

HORIZON-CL5-2024-D3-01-11	AI Testing and Experimentation Facility (TEF) for the energy sector – bringing technology to the market	HORIZON-IA	single-stage	16.01.2024
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Energy systems, grids & storage

HORIZON-CL5-2024-D3-01-17	Development and integration of advanced software tools in SCADA systems for High, Medium and Low voltage AC/DC hybrid systems	HORIZON-IA	single-stage	16.01.2024
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HORIZON-CL5-2024-D3-02 - Sustainable, secure and competitive energy supply

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
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Global leadership in renewable energy

HORIZON-CL5-2024-D3-02-01	Digital tools for CSP and solar thermal plants	HORIZON-IA	single-stage	21.01.2025
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HORIZON-CL5-2024-D4-02 - Efficient, sustainable and inclusive energy use

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
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Highly energy-efficient and climate neutral European building stock

HORIZON-CL5-2024-D4-02-03	BIM-based processes and digital twins for facilitating and optimising circular energy renovation (Built4People Partnership)	HORIZON-IA	single-stage	21.01.2025
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HORIZON.2.6 - Food, Bioeconomy Natural Resources, Agriculture and Environment

HORIZON-CL6-2024-BIODIV-01 - Biodiversity and ecosystem services

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL6-2024-BIODIV-01-2	Digital for nature	HORIZON-IA	single-stage	22.02.2024

HORIZON-CL6-2024-BIODIV-01-5	Transformative action of policy mixes, governance and digitalisation addressing biodiversity loss	HORIZON-RIA	single-stage	22.02.2024
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HORIZON-CL6-2024-CIRCBIO-01 - Circular economy and bioeconomy sectors

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL6-2024-CircBio-01-6	Digital information systems for bio-based products	HORIZON-RIA	single-stage	22.02.2024

HORIZON-CL6-2024-GOVERNANCE-01 - Innovative governance, environmental observations and digital solutions in support of the Green Deal

Topic Identifier	Topic Title	Type of Action	Deadline model	Topic Deadline
HORIZON-CL6-2024-GOVERNANCE-01-7	Enhancing working conditions and strengthening the work force through digital and data technologies – the potential of robotics and augmented reality in agriculture	HORIZON-RIA	single-stage	28.02.2024

2. More Information on Calls and Topics

Funding and Tender Opportunities Portal

The [Funding and Tender Opportunities Portal](#) is the online entry point for Horizon Europe applicants. The portal provides the full topic texts, updates, links to regulations etc.

Work Programme (PDF Version)

In addition to the Funding and Tender Opportunities Portal, the PDF version of the Work Programme, available in the section “Topic conditions and documents” of the topic, provides further information on the topic texts (introduction to the policy background, budget overview etc.).

3. Types of Actions

Type of Action (Abbr.)	Type of Action	Funding Rate	Conditions*	Comment
RIA	Research & Innovation Actions	100%	≥ 3 legal entities from ≥ 3 MS/AC**	Establish new knowledge and/or explore the feasibility of a new or improved technology

IA	Innovation Actions	70% (100% for public & non-profit bodies)	≥ 3 legal entities from ≥ 3 MS/AC**	Produce plans & arrangements or designs for new, altered or improved products, processes or services
CSA	Coordination and Support Actions	100%	≥ 3 legal entities from ≥ 3 MS/AC**	Contribute to the objectives of the Horizon Europe Programme, excluding research and innovation activities
PCP	Pre-Commercial Procurement	≥ 100%	≥ 1 MS/AC Public Procurer(s) [≥ 1 MS/AC private and/or NGO procurer(s)]	Enable a transnational buyers' group to reinforce the public procurement of R&I (possibly with first deployment of new solutions)
PPI	Public Procurement of Innovative Solutions	≥ 50%	≥ 1 MS/AC Public Procurer(s) [≥ 1 MS/AC private and/or NGO procurer(s)]	Enable a transnational buyers' group to reinforce the early deployment of innovative solutions by overcoming the fragmentation of demand

* MS: Member State; AC: Associated Country

** Each consortium has to include at least one Member State

4. Partnering Services

Provider	Platform
Euresearch	Overview of Partnering Platforms
European Commission	Funding and Tender Opportunities Portal
European Commission	CORDIS
Enterprise Europe Network (EEN)	Swiss EEN - Innosuisse

5. Further Questions

Your Euresearch Office in the Region for questions regarding formal and administrative matters (proposal submission, eligibility criteria, budgeting, etc.)

[Office in your Region](#)

Your National Contact Point for questions concerning the scientific aspects of your proposal.

[National Contact Points](#)