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HR EXCELLENCE IN RESEARCH



Sapienza training offer on soft skill for PhD students – Course: “Collaborative project writing and networking in the context of Horizon Europe”

Rome, 5 November 2021

Emanuele Gennuso – Sapienza Grant
Office, Research and Technology
Transfer Division

Horizon Europe

Vision and objectives



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Horizon Europe, the ninth European Research and Innovation Framework Programme (2021-2027), is the EU's key funding instrument for research and innovation, with a budget of € 95.5 billions.



HORIZON EUROPE



fuel EU's **scientific and technological excellence** and the strengthen the European Research Area (ERA)

**Science
& technology**



tackle policy priorities, including **green and digital transitions** and Sustainable Development Goals

Society



boost Europe's **innovation uptake, competitiveness and jobs**

Economy

Specific Objectives

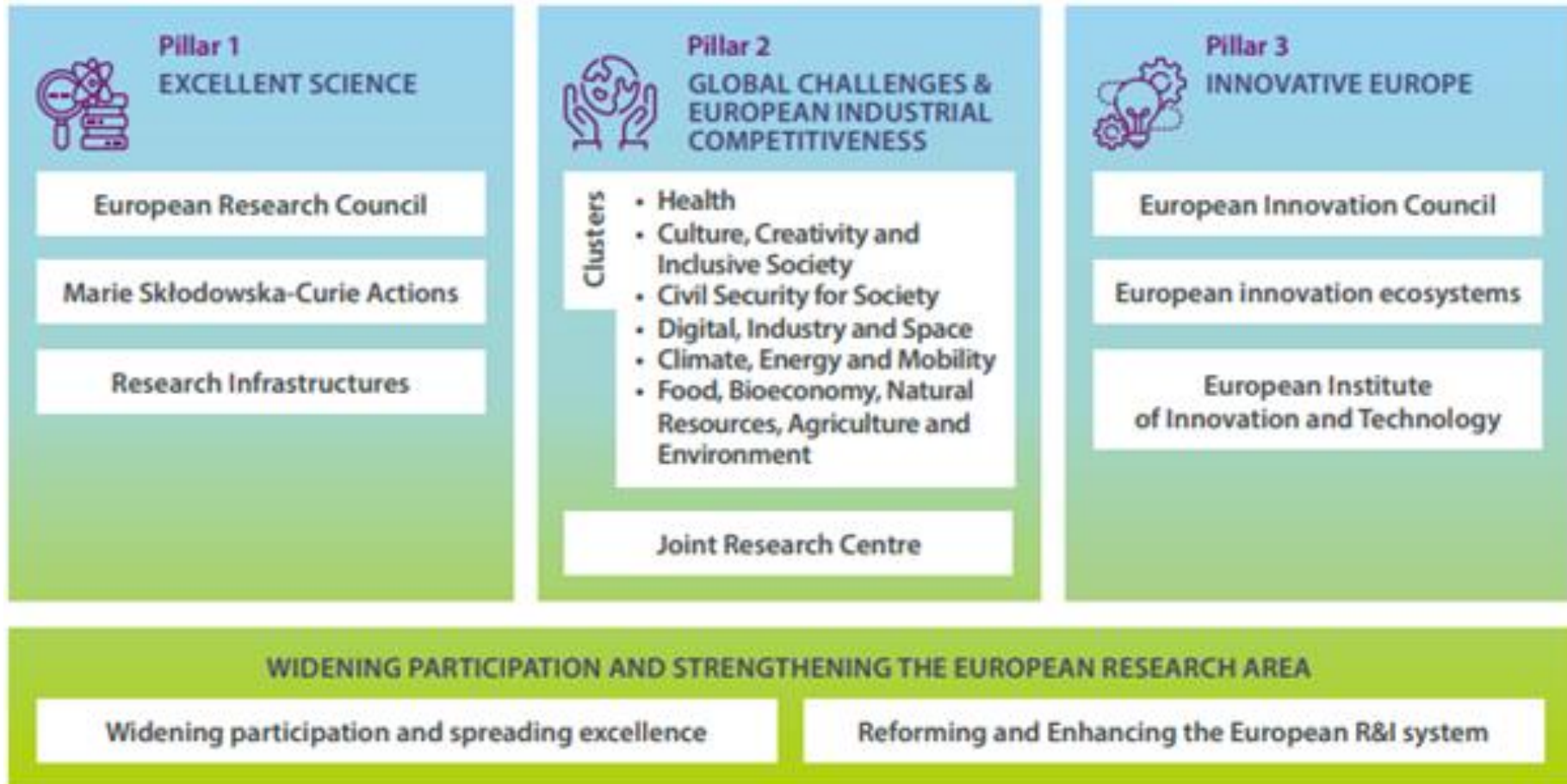
- Supports the creation and better diffusion of excellent knowledge and technologies
- Facilitates collaboration and strengthens the impact of R&I in developing, supporting and implementing EU policies while tackling global challenges (i.e. climate change)
- Helps to achieve the UN's Sustainable Development Goals
- Boosts the EU's competitiveness and growth
- Creates jobs, fully engages the EU's talent pool, boosts economic growth, promotes industrial competitiveness and optimises investment impact within a strengthened European Research Area.



Horizon Europe Structure



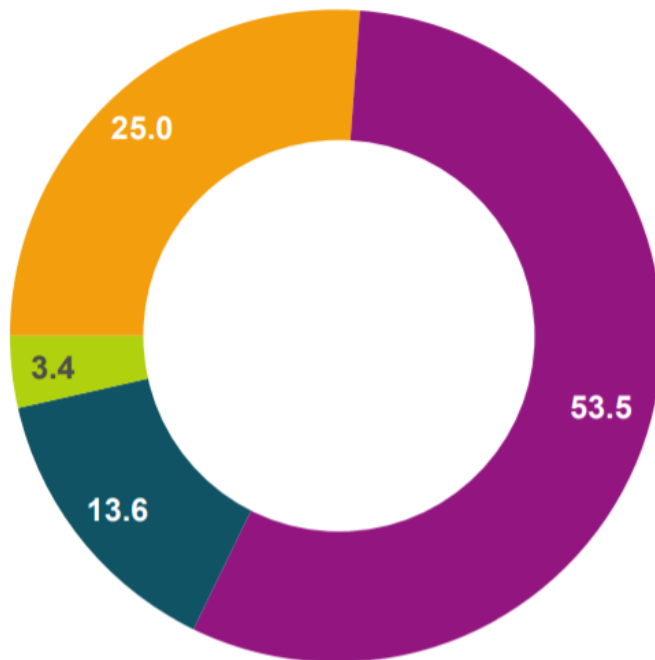
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Horizon Europe

Budget

Horizon Europe Budget: **€ 95.5 billion (2021-2027)**
including €5.4 billion from Next Generation Europe
Programme of EU



Political agreement December 2020
€ billion in current prices

- Excellent Science
- Global challenges and European ind. comp.
- Innovative Europe
- Widening Part and ERA



HORIZON EUROPE

Pillar I

EXCELLENT SCIENCE:

reinforcing and extending the **excellence of the Union's science base**

European Research Council

Frontier research by the best researchers and their teams

€16 billion

Marie Skłodowska-Curie Actions

Equipping researchers with new knowledge and skills through mobility and training

€6.6 billion

Research Infrastructures

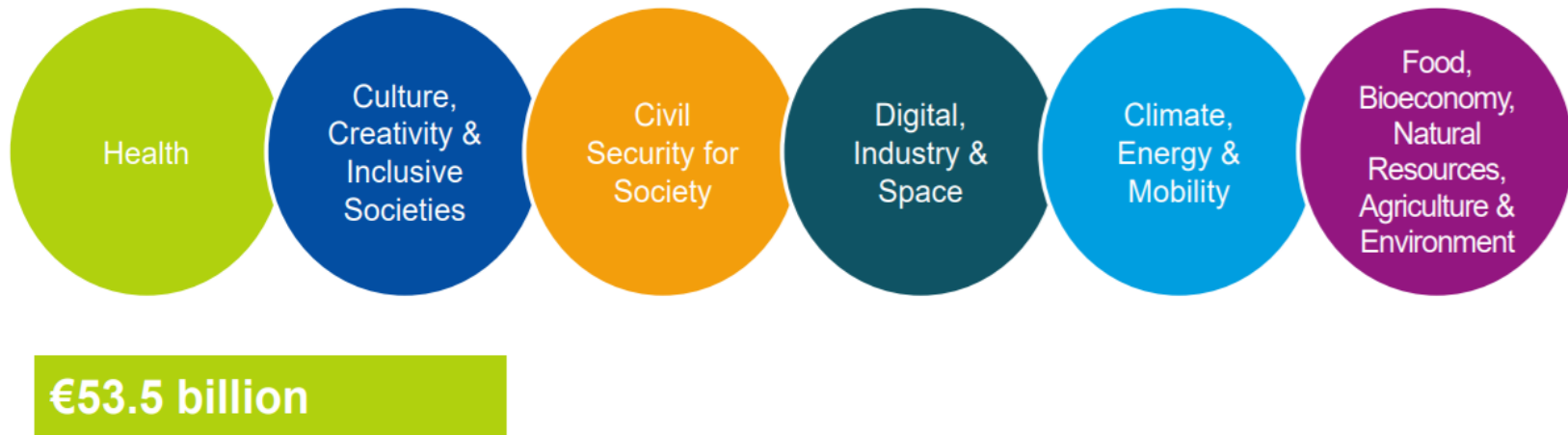
Integrated and inter-connected world-class research infrastructures

€2.4 billion

Pillar II - Clusters

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS:

boosting **key technologies** and solutions underpinning **EU policies & Sustainable Development Goals** (6 clusters and JRC – non-nuclear direct actions)



Pillar II

Budget for clusters & for JRC

in current prices

Cluster 1	Health	€8.246 billion (including €1.35 billion from NGEU)
Cluster 2	Culture, Creativity & Inclusive Societies	€2.280 billion
Cluster 3	Civil Security for Society	€1.596 billion
Cluster 4	Digital, Industry & Space	€15.349 billion (including €1.35 billion from NGEU)
Cluster 5	Climate, Energy & Mobility	€15.123 billion (including €1.35 billion from NGEU)
Cluster 6	Food, Bioeconomy, Natural Resources, Agriculture & Environment	€8.952 billion
	JRC (non-nuclear direct actions)	€1.970 billion

Horizon Europe

Pillar II - Destinations



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Health: health throughout the life course; environmental and social health determinants; non-communicable and rare diseases; infectious diseases; tools, technologies and digital solutions for health and care; health care systems

Culture, Creativity and Inclusive society: democracy and governance; cultural heritage; social and economic transformations.

Civil Security for Society: fighting crime and terrorism; border management; resilient infrastructure; increased cybersecurity; disaster-resilient societies.

Digital, Industry and Space: manufacturing technologies; key digital technologies; emerging enabling technologies; advanced materials; AI and robotics; next generation internet; advanced computing and Big Data; circular industries; low carbon and clean industries; space including earth observation

Climate, Energy and Mobility: climate science and solutions; energy supply; energy systems and grids; buildings and industrial facilities in energy transition; communities and cities; industrial competitiveness in transport; clean, safe and accessible transport and mobility; smart mobility; energy storage

Food, Bioeconomy, Natural Resources, Agriculture and Environment
environmental observation; biodiversity and natural resources; agriculture, forestry and rural areas; seas, oceans and inland waters; food systems; bio-based innovation systems in the EU's bioeconomy; circular system



EU Missions

R&I Missions

Relating EU's research and innovation better to society and citizens' needs; with strong visibility and impact

A mission is a portfolio of actions across disciplines intended to achieve a **bold and inspirational and measurable goal** within a set timeframe, with **impact** for society and policy making as well as relevance for a significant part of the European population and wide range of European citizens.

Horizon Europe defines mission characteristics and elements of governance, and **5 missions areas**. Specific missions will be programmed within the Global Challenges and European Industrial Competitiveness pillar, but may also benefit from actions carried out within other parts of the Programme as well as complementary actions carried out under other Union programmes.

Five Missions Areas



**Adaptation to
climate change,
including societal
transformation**



Cancer



**Healthy oceans,
seas, coastal &
inland waters**



**Climate-neutral
& smart cities**



**Soil health &
food**

Pillar III

INNOVATIVE EUROPE:

stimulating **market-creating breakthroughs** and **ecosystems** conducive to innovation

European Innovation Council

Support to innovations with breakthrough and market creating potential

The budget: **€10.6 billion**, incl. up to **€527 million** for ecosystems (including NGEU – Recovery Fund parts dedicated to EIC).

European innovation ecosystems

Connecting with regional and national innovation actors

European Institute of Innovation and Technology (EIT)

Bringing key actors (research, education and business) together around a common goal for nurturing innovation

circa **€3 billion**



European Innovation Council

Support to innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors **(70% of the budget earmarked for SMEs)**

**European
Innovation Council –
a one-stop-shop**

- Helping researchers and innovators create markets of the future, leverage private finance, scale up their companies
- Innovation centric, risk taking & agile, pro-active management and follow up
- Mostly 'bottom up', but also targeting strategic challenges
- EIC Programme Managers to develop visions for breakthroughs and steer portfolios

Complementary instruments bridging the gap from idea to market

PATHFINDER

R&I grants
(from early technology
to proof of concept)

TRANSITION

R&I grants
(proof of concept to
pre-commercial)

ACCELERATOR

Grants & investment (via EIC Fund) for
single SMEs & start-ups
(from pre-commercial to market & scale-up)

- Proposals for collaborative projects must be submitted by a consortium that includes at least **three independent legal entities**, each one established in a different Member State or Associated Country and with at least one of them established in a Member State.
- The legal entities may for example be universities, research organisations, SMEs, start-ups, industrial partners or natural persons
- The calls can include specific requirement conditions of eligibility, such as Technology Readness Level – TRL, Ethics, Security)
- For more information: [Horizon Europe General Annexes](#)

How to find a suitable call for proposal

- The Work Programmes (WP) announce the call for proposals, grouped by subject areas –“destinations” - based on the EU’s policy priorities and the desired impact.
- WPs identify, for each call, the overall budget, the expected EU contribution per project, the number of projects expected to be funded and the deadline.
- The calls for proposals give information on the research and innovation issues that applicants for funding should address in their proposals
- You can find all calls for proposals, the specific call topics, the deadlines and application forms on the [Funding & tenders portal](#).

Horizon Europe

How to find a suitable call for proposal

You may start your search by entering different keywords that characterize best your field of interest, and then refine the results with the help of further filters.



Horizon Europe (HORIZON)

SEARCH FUNDING & TENDERS ▾ HOW TO PARTICIPATE ▾ PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT ▾

technologies

☒ Match whole words only

☒ GRANTS ☒ TENDERS

Submission status

☐ Forthcoming ☒ Open for submission (22) ☐ Closed

Programming period

Select a Programme period...

Horizon Europe (HORIZON)

Programme part

Digital, Industry and Space

Funding and tenders (22)

[Need help?](#) Sort by:

Grant Basic Science for Quantum Technologies (RIA)

Open for submission

Programme	Horizon Europe (HORIZON)	Deadline model	single-stage
ID	HORIZON-CL4-2021-DIGITAL-EMERGING-02-16	Opening date	28 October 2021
Types of action	HORIZON Research and Innovation Actions	Deadline date	27 January 2022 17:00:00 Brussels time

Grant Quantum sensing technologies for market uptake (IA)


Open for submission

Programme	Horizon Europe (HORIZON)	Deadline model	single-stage
ID	HORIZON-CL4-2021-DIGITAL-EMERGING-02-20	Opening date	28 October 2021
Types of action	HORIZON Innovation Actions	Deadline date	27 January 2022 17:00:00 Brussels time

Grant Framework Partnership Agreement for developing large scale quantum simulation platform technologies (FPA)

Open for submission

Call Page includes: General information, Topic description, Destination, Conditions and documents, Partner search, Submission service, Topic related FAQ, Get support, Call updates

 SEARCH FUNDING & TENDERS ▾ HOW TO PARTICIPATE ▾ PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT ▾

Horizon Europe (HORIZON)

Basic Science for Quantum Technologies (RIA)

TOPIC ID: HORIZON-CL4-2021-DIGITAL-EMERGING-02-16

Grant

General information	General information		
Topic updates	Programme Horizon Europe Framework Programme (HORIZON)		
Topic description	Call Digital and emerging technologies for competitiveness and fit for the green deal (HORIZON-CL4-2021-DIGITAL-EMERGING-02)		
Destination	See budget overview		
Conditions and documents	Type of action HORIZON-RIA HORIZON Research and Innovation Actions	Type of MGA HORIZON Action Grant Budget-Based [HORIZON-AG]	Open for submission
Partner search	Deadline model single-stage	Opening date 28 October 2021	Deadline date 27 January 2022 17:00:00 Brussels time
Submission service			
Topic related FAQ			
Get support			

Horizon Europe

How to find a suitable call for proposal



General information

Topic updates

Topic description

Destination

Conditions and documents

Partner search

Submission service

Topic related FAQ

Get support

Call updates

 [Go back to search results](#)

Topic description

ExpectedOutcome:

Proposal results are expected to contribute to the following expected outcomes:

- Opening up new avenues for potential growth in the field of quantum technologies
- Novel concepts, leading to more advanced technologies continue to support the basic science research carried out by the Quantum Technologies Flagship, ensuring that it informs the Flagship's work in other quantum fields, and/or explores new directions within existing fields.

Scope:

Proposals should aim to explore new quantum effects and gain new knowledge that is not limited to the pillar activities, and which may contribute to new quantum technologies and applications in the long term. Areas of particular interest include

[show more...](#)

Destination

Digital and emerging technologies for competitiveness and fit for the Green Deal

This destination will directly support the following Key Strategic Orientations, as outlined in the Strategic Plan:

- KSO A, 'Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains to accelerate and steer the digital and green transitions through human-centred technologies and innovations.'
- KSO C, 'Making Europe the first digitally led circular, climate-neutral and sustainable economy through the transformation of its mobility, energy, construction and production systems

Proposals for topics under this Destination should set out a credible pathway to contributing to the following expected impact:

[show more...](#)

Topic conditions and documents

General conditions

1. **Admissibility conditions:** described in [Annex A](#) and [Annex E](#) of the Horizon Europe Work Programme General Annexes

DESTINATION – CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION..... 19

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HORIZON-CL4-2021-TWIN-TRANSITION-01-02: Zero-defect manufacturing towards zero-waste (Made in Europe Partnership) (IA)	28
HORIZON-CL4-2021-TWIN-TRANSITION-01-03: Laser-based technologies for green manufacturing (Photonics - Made in Europe Partnerships) (RIA)	29
HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio- based materials (Made in Europe Partnership) (RIA)	31
Advanced digital technologies for manufacturing	32
HORIZON-CL4-2021-TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, agile manufacturing (AI, Data and Robotics - Made in Europe Partnerships) (IA)	33
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A new way to build, accelerating disruptive change in construction	36
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How to submit your grant proposal

- Applications must be submitted electronically via the [Funding & Tenders Portal](#) electronic submission system
- Each user has to have an EU Login account to log in on the Portal. If you do not have an account yet, you need to create it by clicking on the REGISTER button
- You can start the submission and create a draft proposal via the call page

General information

Topic updates

Topic description

Destination

Conditions and documents

Partner search

Submission service


Topic related FAQ

Start submission

To access the Electronic Submission Service, please click on the submission-button next to the **type of action** and the **type of model grant agreement** that corresponds to your proposal. You will then be asked to confirm your choice, as it cannot be changed in the submission system. Upon confirmation, you will be linked to the correct entry point.

To access existing draft proposals for this topic, please login to the Funding & Tenders Portal and select the My Proposals page of the My Area section.

Please select the type of your submission:

 HORIZON Research and Innovation Actions [HORIZON-RIA], HORIZON Action Grant Budget-Based [HORIZON-AG]

Start submission

The application form will have two parts:

- **Part A** (to be filled in directly online) contains administrative information about the applicant organisations (future coordinator and beneficiaries and affiliated entities), the summarised budget for the proposal and call-specific questions;
- **Part B** (to be downloaded from the Portal submission system, completed and then assembled and re-uploaded as a PDF in the system) contains the technical description of the project. Annexes and supporting documents will be directly available in the submission system and must be uploaded as PDF files (or other formats allowed by the system).

Part A

- General information
- Participant
- Budget
- Ethics and security
- Other question

Part B - Applications are subject to the page limits set out in the call conditions (generally, 45 pages).

- Section 1 – Excellence (Objectives and ambition, Methodology)
- Section 2 – Impact (Project's pathways towards impact, Measures to maximise impact - Dissemination, exploitation and communication, Summary canvas)
- Section 3 – Implementation (Work plan and resources , Capacity of participants and consortium as a whole, Tables: List of WP, WP description, list of deliverables, ecc..)

Table 3.1b: Work package description

For each work package:

Work package number		Lead beneficiary						
Work package title								
Participant number								
Short name of participant								
Person months per participant:								
Start month				End month				
Objectives								
Description of work (where appropriate, broken down into tasks), lead partner and role of participants								
Deliverables (brief description and month of delivery)								

- **Read carefully the Guide for Applicants!!!**
- Start writing your proposal early, also in order to submit it to external opinions;
- Make your application easy to read;
 - Identify your aims and hypotheses right at the beginning.
 - Use tables and diagrams (legible in black and white).
 - Emphasise particularly important sentences using appropriate formatting and highlighting
- Be ambitious, but avoid sounding unrealistic;
- Follow the formatting rules and page limits;

- Make yourself familiar with the Electronic Proposal Submission Service;
- Find out, if possible, who has recently received funding in your field;
- Provide irrefutable evidence for impact and excellence;
- Provide a clear, concise work plan, giving details of intermediate goals. Use, if applicable, Work Package approach;
- Provide alternative strategies to mitigate risks;
- Clearly explain how you will manage your project and disseminate the results;
- Include a Gantt chart to illustrate the project schedule

Grant Office services:

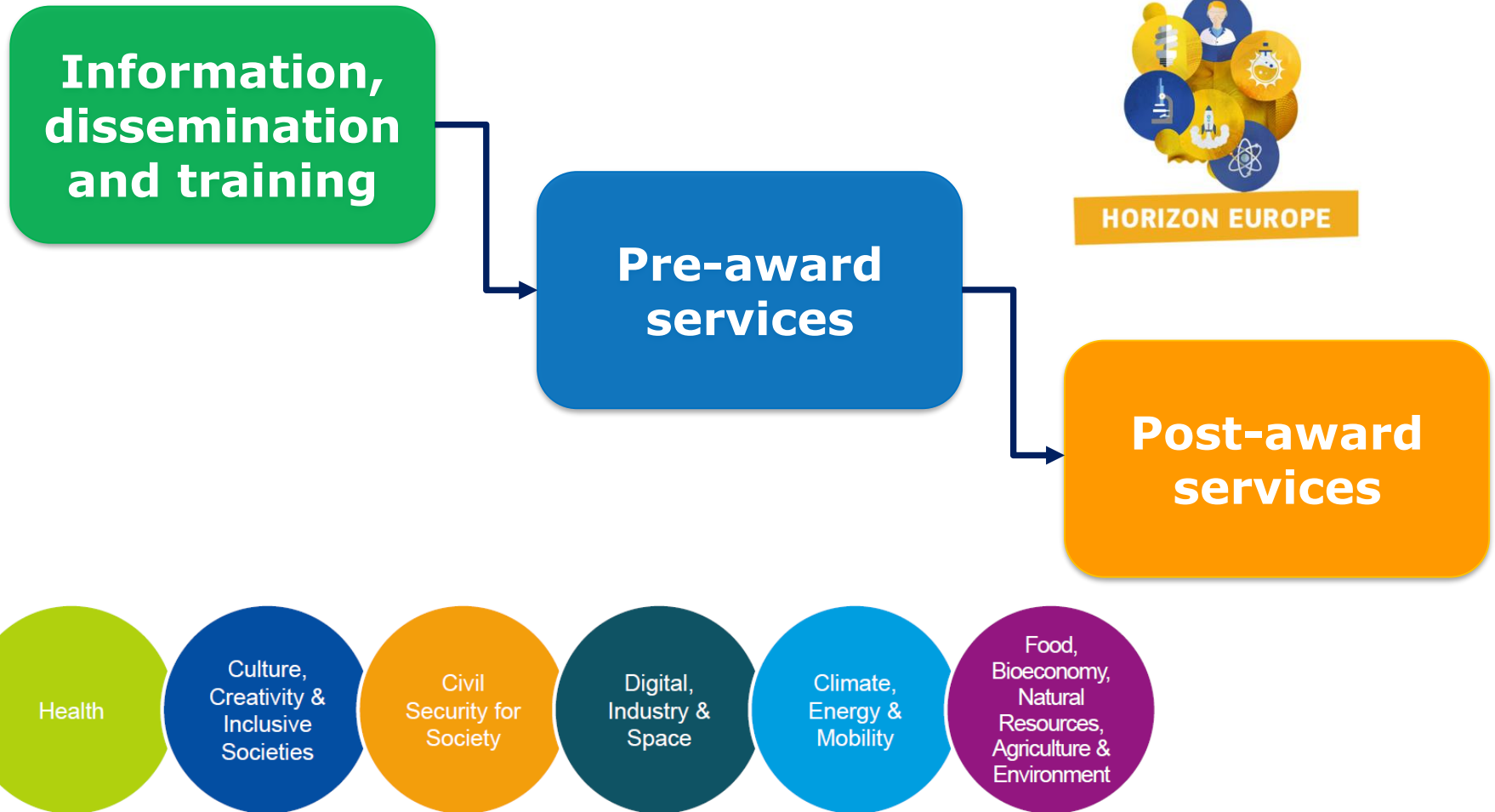
- **Information, dissemination and training services;**
- **Pre-award services** (supporting researchers interested in submitting application under European and international Programmes);
- **Post-award services** (supporting researchers and administrative staff in the management of projects funded by EU or international Institution);
- Support to the implementation and the monitoring of the **Human Resources Strategy for Researchers (HRS4R)**;
- Support to the participation in **national and international networks and working groups** (CIVIS, Codau, APRE, UNICA, ecc..).

Sapienza Grant Office

An overview of provided services



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Information, Dissemination and Training Services

- Organization of webinars, info-days and dissemination events;
- Meetings with researchers at Department or Inter-departmental research centres;
- Training courses on proposal writing for scientific community or administrative staff;
- Targeted e-mail ad-hoc communication;
- Front office activities.

Pre-award services

- Scouting and analysis of the call and the topic more suitable for the project idea;
- Technical assistance on Funding & Tender Portal;
- Support in drafting the administrative part of the proposal;
- Support in drafting the proposal budget;
- Pre-evaluation of the draft proposal;
- Analysis of the Evaluation Summary Report.

Post-award services

- Technical Assistance in the preparation phase of Grant Agreement and Consortium Agreement;
- Supporting in the adoption of the reporting procedures and accounting rules required by the financing authority;
- Technical assistance in the case of a financial audit.



"Coordination of Horizon Europe collaborative projects" call for proposals is part of the initiatives promoted to boost participation in Horizon Europe and it is aimed to finance activities for the preparation and the submission of collaborative project proposals coordinated by Sapienza under this Programme.

The amount contribution is up to a maximum of € 10,000.00, for eligible costs related to the purchase of consultancy services, the organization of working meetings among potential consortium partners and the participation in training activities

“Award Horizon Europe” call for proposals is aimed to award Horizon Europe collaborative project proposals that have already been positively evaluated by the European Commission, even if they have not received funding.

The Award is a financial contribution, the amount of which is defined as follows:

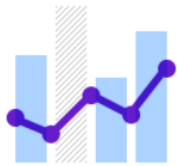
- Project Coordinator: up to 50,000.00 euro
- Scientific supervisor: up to 25,000.00 euros

The grant holder can use the contribution to cover the costs of research activities, preferably aimed to prepare a new Horizon Europe proposal

Funding Institutional is an online tool that allows scientific community to identify new international funding opportunities compatible with their career and research interests.



Funding
Institutional



Insights

Provides insight into the funding landscape by combining awarded grants, funder and funding opportunity data



Discovery

Identifies new funding sources through enhanced keyword or faceted search and tracking features



Decisions

Increases grant success rates with fact-based decision making and by identifying most eligible researchers and collaborators

Human Resources Excellence in Research Award



HR EXCELLENCE IN RESEARCH

The European Commission awarded Sapienza with the Human Resources Excellence in Research Award, implementing the principles of the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.

The award acknowledges the Sapienza's commitment to continuously improve its human resources policies in line with the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers.

RIS4CIVIS project, awarded by the European Commission under the Horizon 2020 “SWAFS” Programme, will support the Research and Innovation dimension of the CIVIS European University Alliance. The project will integrate the following dimensions as key conditions for successful cooperation between modern, forward-looking Universities:



- 1) Developing a Common Research and Innovation Strategy;
- 2) Sharing infrastructures;**
- 3) Reinforcing Academia-Business R&I Cooperation;
- 4) Strengthening Human Capital;
- 5) Mainstreaming of Open Science;
- 6) Embedding Citizens and Society



Thank you for your attention!

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