







Sapienza training offer on soft skill – Course: "Collaborative project writing and networking in the context of Horizon Europe"

Rome, 4 November 2022

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

### Vision and objectives

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  $\in$  95.5 billions.





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



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



boost Europe's innovation uptake, competitiveness and jobs

## Science & technology

## Society

### Economy

### "Collaborative project writing and networking in the context of Horizon Europe"

10/11/2022



### Vision and objectives

# Horizon Europe legislation defines three types of impact tracked through **Key Impact Pathways**



10/11/2022

### Structure





### WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

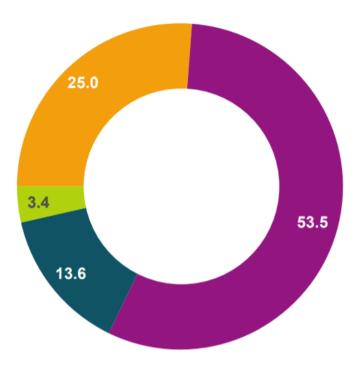
Widening participation and spreading excellence

Reforming and Enhancing the European R&I system

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



"Collaborative project writing and networking in the context of Horizon Europe"

10/11/2022

Page 5

Structure



# 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 interconnected world-class research infrastructures

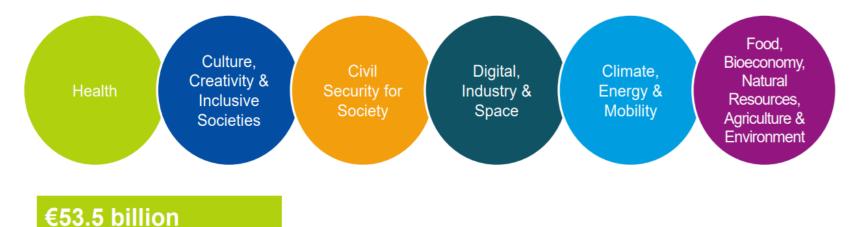
€2.4 billion

Structure



### 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)



Structure

### 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





### Pillar II – Cluster and Destinations

**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; biobased innovation systems in the EU's bioeconomy; circular system

Structure





**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.

## "Collaborative project writing and networking in the context of Horizon Europe"

### Horizon Europe Structure

## **Five Missions Areas**





Structure



stimulating market-creating breakthroughs and ecosystems conducive to innovation

### European Innovation Council

Support to innovations with breakthrough and market creating potential

## 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

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

### circa €3 billion





### Structure



# 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)

Z N

### Horizon Europe Structure

#### What is an EIT Knowledge and Innovation Community?

The EIT's Knowledge and Innovation Communities bring together businesses (industry and SMEs), research centres and universities as partners, creating an environment where creative thought and innovation flourishes.

They offer access to talent, knowledge, funding and new business sectors to:

train a new generation of entrepreneurs: develop your entrepreneurial skills with the EIT

develop innovative products and service: take your idea further by bringing it to the market

Kick-start companies: create or accelerate your venture with EIT support

EIT Climate-KIC	EIT Digital	EIT Food	EIT Health
innovation for climate action	for a strong digital Europe	addressing sustainable supply chains from resources to consumers	together for healthy lives in Europe
EIT InnoEnergy	EIT Manufacturing	EIT RawMaterials	EIT Urban Mobility
pioneering change in sustainable energy	leading manufacturing innovation is Made by Europe	developing raw materials into a major strength for Europe	smart, green and integrated transport





Europe's largest innovation community



Structure

### SAPIENZA Università di Roma

### Part

# Widening Participation & Strengthening the European Research Area (ERA):

## Widening Participation and Spreading Excellence

- Teaming, Twinning, ERA Chairs,
- European Cooperation in Science and Technology (COST)
- Boosting National Contact Points' (NCPs) activities, preproposal checks and advice
- Brain circulation
- Excellence initiatives:
- Possibility for entities from widening countries to join already selected collaborative R&I actions
- Recognition of participation
- Matchmaking services

### €2.96 billion

### Reforming and enhancing the EU R&I system

- Strengthening the evidence base for R&I policy
- Foresight
- Support for policy makers to the ERA development
- Support to national R&I policy reform, including Policy Support Facility
- Attractive researcher careers and links with higher education
- Open science, citizen science and science communication
- Gender equality
- Ethics and integrity
- Support to international cooperation
- Scientific input to other policies
- Support to the Programme implementation
- Support for National Contact Points
- Support to dissemination & exploitation

### €0.44 billion





Who can apply?

- 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: <u>Horizon Europe General Annexes</u>



How to apply

### 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 <u>Funding & tenders portal</u>.



### 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.

SEARCH FUNDING 8	TENDERS - HOW TO PARTICI	PATE 🔻 PROJECTS & RESUL	TS WORK AS AN EXPERT	SUPPORT 🔻		
Horizon Europe (HOF	RIZON)					
technologies		2	Funding and t	enders (22)	. [	Deed help?
Match whole words on	y .		Grant Basic Scie	ence for Quantum Technologies (RIA)		
GRANTS	TENDERS		Open for submission	•		
			Programme	Horizon Europe (HORIZON)	Deadline model	single-stage
			ID	HORIZON-CL4-2021-DIGITAL-EMERGING-02-16	Opening date	28 October 2021
Submission status			Types of action	HORIZON Research and Innovation Actions	Deadline date	27 January 2022 17:00:00 Brussels ti
Forthcoming	Open for submission (22)	Closed				
			Grant Quantum	sensing technologies for market uptake (IA)		
			Open for submission			
ogramming period			Programme	Horizon Europe (HORIZON)	Deadline model	single-stage
Select a Programme period	I	×	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 ti
Horizon Europe (HORIZON)		×				
Programme part			Grant Framewor	k Partnership Agreement for developing large scale qua	ntum simulation platform to	chaologies (EDA)
Digital, Industry and Space	се			k Partnersnip Agreement for developing large scale qua	intuin sinulation platform tex	chilologies (FFA)
			Open for submission			

"Collaborative project writing and networking in the context of Horizon Europe"

#### 10/11/2022

### How to find a suitable call for proposal



**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

R	r	•	n	t	
-				٠	

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

"Collaborative project writing and networking in the context of Horizon Europe"

10/11/2022

### Horizon Europe How to find a suitable call for proposal



General information	
Topic updates	Topic description
Topic description	ExpectedOutcome:
Destination	Proposal results are expected to contribute to the following expected outcomes:  Opening up new avenues for potential growth in the field of quantum technologies
Conditions and documents	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.
Partner search	Scope:
Submission service	Pronosals should aim to explore new quantum effects and gain new knowledge that is not limited to the nillar activities, and which may contribute to new quantum technologies and applications in the long term. Areas of narticular interest include
Topic related FAQ	
Get support	Destination
Call updates	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:
Go back to search results	• 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





### How to find a suitable call for proposal

### **DESTINATION – CLIMATE NEUTRAL, CIRCULAR AND DIGITISED** PRODUCTION......19 HORIZON-CL4-2021-TWIN-TRANSITION-01-01: AI enhanced robotics systems for HORIZON-CL4-2021-TWIN-TRANSITION-01-02: Zero-defect manufacturing towards HORIZON-CL4-2021-TWIN-TRANSITION-01-03: Laser-based technologies for green HORIZON-CL4-2021-TWIN-TRANSITION-01-05: Manufacturing technologies for bio-HORIZON-CL4-2021-TWIN-TRANSITION-01-07: Artificial Intelligence for sustainable, HORIZON-CL4-2021-TWIN-TRANSITION-01-08: Data-driven Distributed Industrial HORIZON-CL4-2021-TWIN-TRANSITION-01-10: Digital permits and compliance HORIZON-CL4-2021-TWIN-TRANSITION-01-11: Automated tools for the valorisation





How to apply

### How to submit your grant proposal

- Applications must be submitted electronically via the <u>Funding & Tenders Portal</u> 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	Start submission
Topic updates	To access the Electronic Submission Service, please click on the submission-button next to the <b>type of action</b> and the <b>type of model grant</b>
Topic description	<b>agreement</b> 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.
Destination	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.
Conditions and	
documents	Please select the type of your submission:
Partner search	HORIZON Research and Innovation Actions [HORIZON-RIA], HORIZON Action Grant     Budget-Based [HORIZON-AG]
Submission service	
	Start submission
Topio related EAO	



How to apply

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 reuploaded 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).

10/11/2022

## "Collaborative project writing and networking in the 10/11/2022 context of Horizon Europe"

- 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..)



### Horizon Europe

How to apply

Part A

### How to apply



Work package number   Lead beneficiary								
Work package title				J		I		
Participant number								
Short name of participant								
Person months per participant:								
Start month				End				
				month				
<b>Description of work</b> (where appropriate participants	ropriat	e, broken	down i	into tasks)	, lead	partner	and	role
Deliverables (brief description and a	month	of deliver	y)					





Hints and Tips

- 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;

SAPIENZA Università di Roma

Hints and Tips

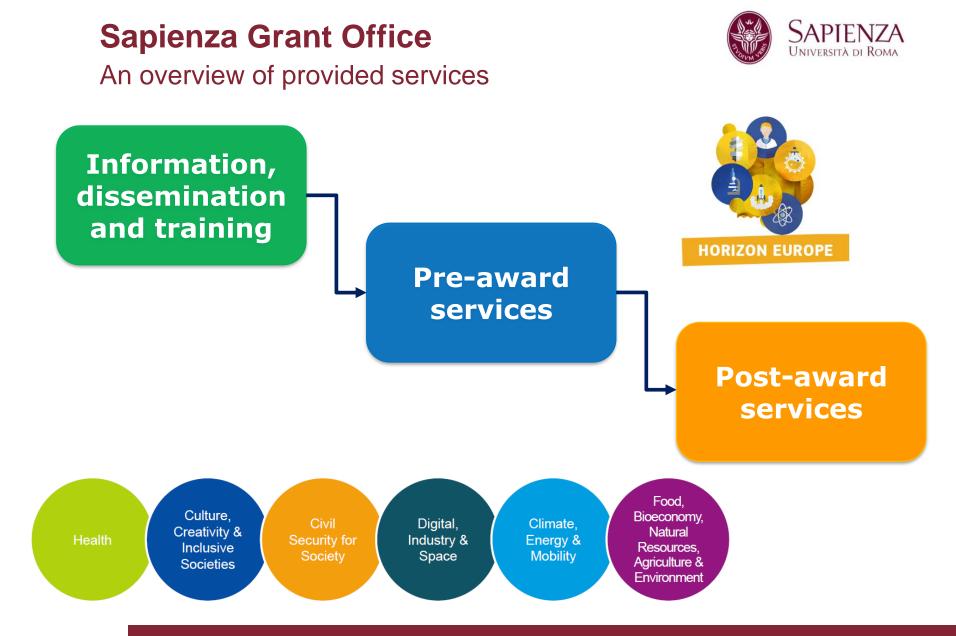
- Make yourself familiar with the Electronic Proposal Submission Service;
- Find out, if possible, who has recently received funding in your field;
- Provide irrefutable evidence for impact and excellence;
- Provide a clear, concise work plan, giving details of intermediate goals. Use, if applicable, 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

### Sapienza Grant Office An overview of provided services



### 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..).



"Collaborative project writing and networking in the context of Horizon Europe"





## 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.

## Sapienza Grant Office



An overview of provided services

## **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;
- Analisys of the Evaluation Summary Report.

### Sapienza Grant Office



An overview of provided services

## **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

Sapienza Grant Office An overview of provided services



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





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



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.



S4CIVIS

**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!

Emanuele Gennuso Sapienza University of Rome Research Promotion and Support Services Office Grant Office Unit

Contacts: <u>emanuele.gennuso@uniroma1.it</u> <u>grantoffice@uniroma1.it</u> Tel: 06 4991 0188 - 0322 - 0183