

PROJETOS de Investigação 2022



Information Session 02/02/2022

Projetos Semente | Seed Projects

- **3rd Edition**
- **5 Interdisciplinary scientific research** projects;
- Developed by **multidisciplinary teams, with diversity**;
- Lead by an Investigator (PI) of a UC R&D Unit with a **PhD degree** after the **1st of January 2012**;
- **New project, with great potential & with impact**;
- Topics @ **UC Strategic Areas (AEUCs)**;
- Responding to **Sustainable Development Goals (SDGs)** of the 2030 United Nations Agenda.

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ACESSO RÁPIDO Q ENTRAR

IIIUC APOIA

Projetos Semente de Investigação

PROJETOS de
Investigação
2022

Projetos Semente de Investigação

Projetos Semente de Investigação

As candidaturas para a edição 2022 já se encontram abertas!

PROJETOS de
Investigação
2022

PROJETOS de
Investigação
2021

PROJETOS de
Investigação
2020

EDIÇÃO 2021

EDIÇÃO 2020

EDIÇÃO 2022

PROJETOS de
Investigação
2022

New website



Strategic Research Areas of the University of Coimbra

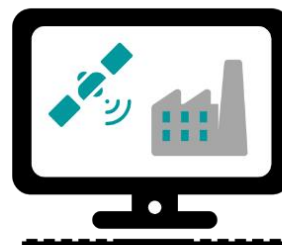
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2022



Climate, Energy and Mobility

AEUC

Strategic Areas
University of Coimbra



Digital, Industry and Space



Heritage, Culture and
Inclusive Society



Health



Natural Resources, Agrifood
and Environment

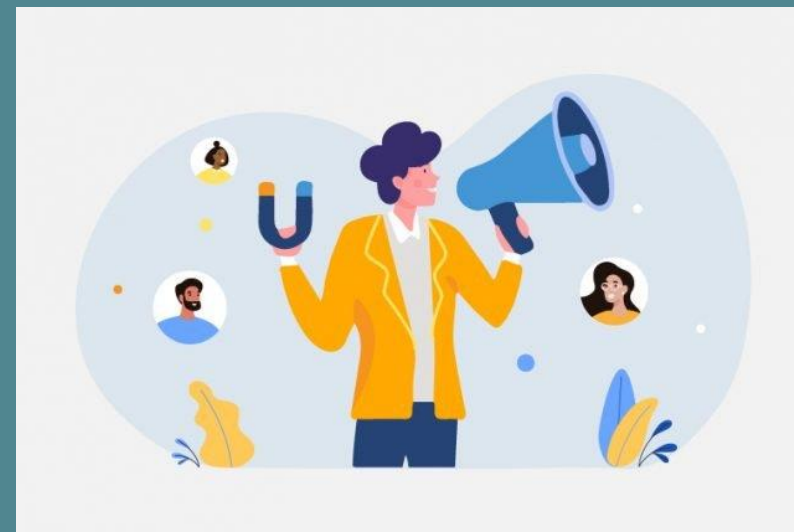
5 Interdisciplinary thematic areas where the UC has **considerable critical mass** and, at the same time, emerging areas with **visible international expansion**

articulated with **the clusters within Horizon Europe**



Norms and regulations

<https://ucpages.uc.pt/iii/iiiuc-apoia/projetos-semente-de-investigacao/edicao-2022/>



Applicants and Eligibility



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The Team:

- Researchers from, at least, 2 R&D Units of the UC Group from different scientific areas;
- Recommendation: diversity
- Cannot include any member of the PI's PhD thesis advisory team or members of the jury of this edition of the Seed Projects

The Principal Investigator (PI):

- Integrated member of a UC R&D Unit *
- PhD degree after the 1st of January 2012

* Supporting path to independent research



R&I Units and the distribution by Scientific areas

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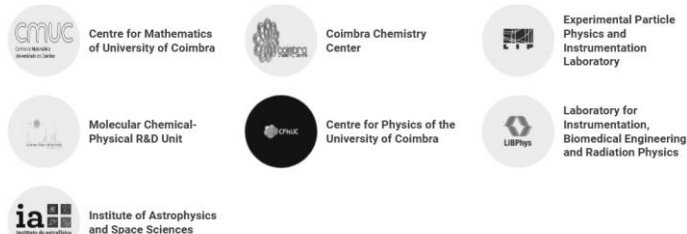
2022

*The project team must include researchers from **at least 2 R&D units** of the UC Group, from **different scientific areas**.

Health



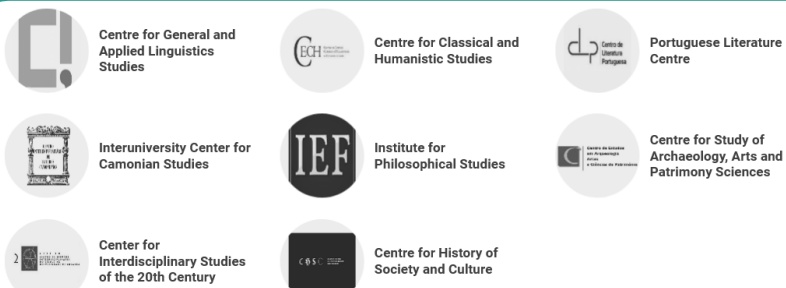
Exact Sciences



Natural Sciences



Arts and Humanities



Engineering and Technology Sciences



Social Sciences



Information [here](#)



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Non-discrimination and equal access policy

*The team composition needs to be in compliance with the UC Plan for Equality, Equity and Diversity 2019-2023.

UC Plan for Equality, Equity and Diversity 2019-2023

[English](#)

[Portuguese](#)

GEND^Equal
@UC **R**esearch



Impediments and Conflicts of Interest

Jury members

- Cannot participate in team of the projects
- They must refuse to participate in the evaluation of projects in which they are or will be, predictably, in a situation of conflict of interest, namely by:
 - Published scientific work with the PI in the 3 years prior to the opening date of the application period;
 - Ongoing scientific collaboration;
 - Family relationship with the PI or with a member of the team;
 - Scientific or personal conflict with the PI or with any member of the team;
 - Other situation that may raise doubts to themselves or to a third party.

Funding | Execution | Report



- The maximum funding for each project is **20.000 €**, one in each of the 5 strategic areas;
- Project funding must be executed until **31st December 2022**.
- The scientific implementation, exceptionally until 31st December 2023.
- **Final Report**, submitted by PI, up to **3 months** after the end of the project
 - most relevant results;
 - dissemination activities to non-scientific audience.

Evaluation Process

- 5 evaluation panels, one for each Strategic Area UC

Phase 1:

Evaluation of submitted proposal

Project Merit

- Scientific merit and innovative nature of the project (45%)
- Interdisciplinarity, contribution and alignment with the UC Strategic Areas (10%)
- Feasibility and budget reasonability (10%)
- PI's scientific merit and potential (25%)
- Team's scientific merit and diversity (10%)

5 projects
pre-selected
per AEUC
PM > 8

The jury may decide
that no project is
selected for the Final
Phase.

Phase 2

Interview + Discussion

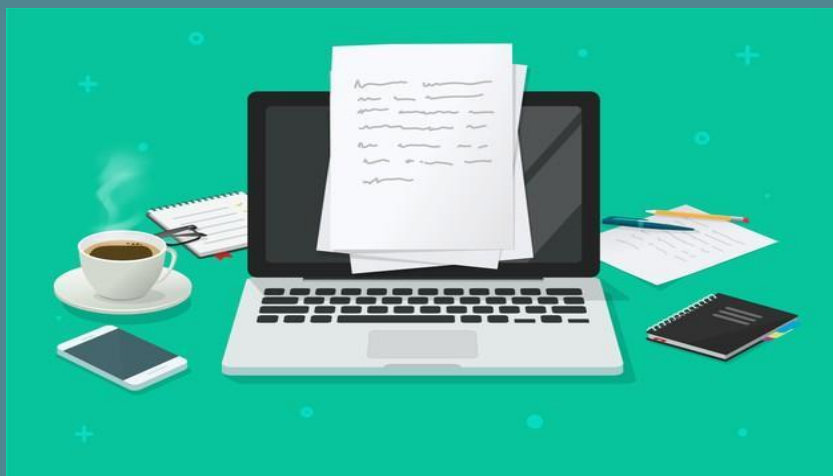
Final Score

Interview includes **short presentation** by PI of the project proposal

Deadlines



- Applications until **February 28**.
- Phase I / Evaluation of submitted proposal until **March 25**.
- Phase 2 / Interviews: **March 30 to April 5**.
- A public **award ceremony** will be held in date to be confirmed.



Application submission

Application Submission

I.1. Title;

I.2 Identification of the PI and all team members, including name, nationality, contacts (e-mail, mobile), R&D Unit, ORCID, CiênciaVitae;

I.3. Presentation of the team, including a description of the experience and contribution of each member to the completion of the project;

I.4 Identification and contact details of collaborators or partner institutions and the relevance of their involvement in the project;

I.5. Main Strategic Area and secondary Strategic Areas;

I.6. Abstract (up to 1500 characters);

I.7. Objectives (up to 1500 characters);

I.8. State of the Art (up to 3000 characters);

I.9. Work Plan and Tasks (up to 6000 characters)

I.10. Project timetable;

I.11. Expected results and impacts (up to 1500 characters);

I.12. Budget organised by items;

I.13. Indication and justification of the United Nations SDGs to which the project is related;

I.14. Communication and results dissemination plan (up to 250 words)

Attachments (Budget, Graphical abstract; only pdf files)

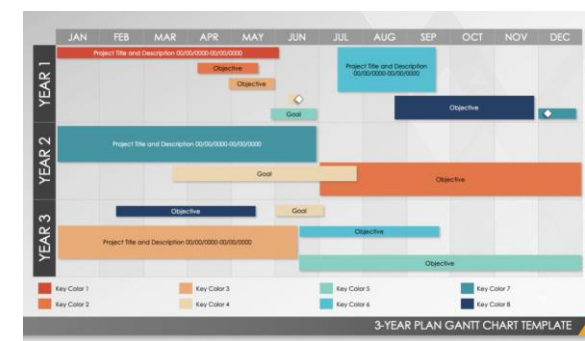
Application: Recommendations and best practices

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Applications WILL ONLY BE ACCEPTED IF submitted in Portuguese or in English through the application website: <https://ucpages.uc.pt/iii/iiiuc-apoia/projetos-semente-de-investigacao/>

Write for a
multidisciplinary
panel

Include a Project
timetable



Avoid jargon

Use a
scheme/diagram of
the project



Application

*Communication and results dissemination plan

Recommendations:

- **diverse audiences**, not only the scientific community but also general or other specific publics
- **type of public** reached
- **activities** (conferences, workshops, concerts, visit to school, European Researchers Night, others)
- **objectives**
- **tools/channels**



Ana Santos Carvalho - iiiUC

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iiiUC will support

- development of project visual identity
- development of project website
- support in the implementation of the Communication and Results Dissemination Plan



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Budget Form

PROJETOS de
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2022

Concurso	Concurso "Projetos Semente de Investigação Científica Interdisciplinar" - Financiamento Santander de Projetos da UC
Acrónimo e Título	
Código do projeto	
Instituição Proponente	Universidade de Coimbra

PERÍODO DE EXECUÇÃO

Data início	Duração (N.º Meses)	Data de fim
01/07/2021	6	31/12/2021
Restrições de duração (meses)	mínima	
	máxima	31/12/2021

ELABORAÇÃO DO ORÇAMENTO

Rubrica	Separador
Missões	Preencher Missões
Aquisição de bens e serviços	Preencher Outros investimentos
Aquisição de equipamento e software	Preencher Outros investimentos

RESUMO ORÇAMENTO

Descrição	TOTAL
Aquisição de bens e serviços	- €
Aquisição de equipamento e software	- €
Missões	- €
Total orçamento elegível	- €

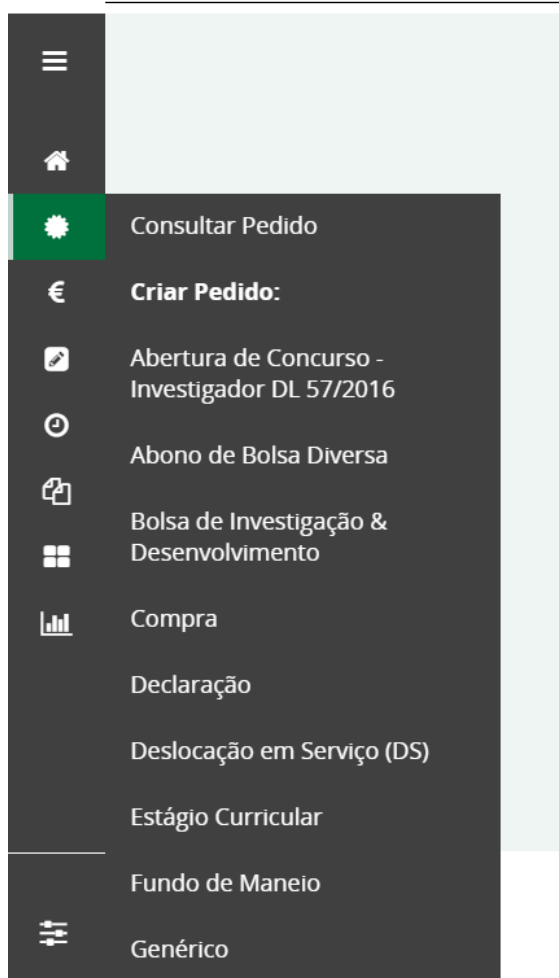


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Eligible Expenses



For the awarded projects, all expenses must be submitted a **Lugus orders in advance**:

- if the beneficiary has a contract with the UC “Compra”; “Deslocações em Serviço”
- if not, “Abonos de Bolsa Diversa”

No invoices before the public procurement process by the UC services is completed and the order form is sent.

1. Acquisition of goods and services;

(service provider to perform tasks; acquisition of laboratory materials; reagents; translation and printing services; analysis services; website development; books)

2. Acquisition of equipment and software;

(computers; laboratory equipment; software or computer licenses)

3. Missions.

(participation in conferences / congresses; fieldwork; participation in meetings with institutions within the scope of the project)

Q&A

AEUC - People

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2022



Natural Resources, Agrifood
and Environment



Digital, Industry and Space



Health

Isabel Neves

Natacha Leite

Maria João Neves



Heritage, Culture and
Inclusive Society



Climate, Energy and Mobility



Clara Barata

Shiva Saadatian



Strategic Research Areas of the University of Coimbra

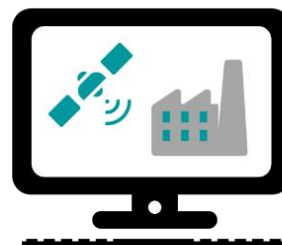
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Climate, Energy and Mobility

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Health



Natural Resources, Agrifood
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5 Interdisciplinary thematic areas where the UC has **considerable critical mass** and, at the same time, emerging areas with **visible international expansion**

articulated with **the clusters within Horizon Europe**



Horizon Europe: what? and how?



Horizon Europe

THE NEXT EU RESEARCH & INNOVATION
INVESTMENT PROGRAMME (2021 – 2027)

#HorizonEU

Based on the Commission Proposal for Horizon Europe, the
common understanding between co-legislators and the
Partial General Approach, both approved in April 2019

Research and
Innovation

Horizon Europe: Implementation

HORIZON EUROPE

EURATOM

SPECIFIC PROGRAMME: EUROPEAN DEFENCE FUND

*Exclusive focus on
defence research
& development*

Research
actions

Development
actions

SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT*

Exclusive focus on civil applications



Pillar I EXCELLENT SCIENCE

European Research Council

Marie Skłodowska-Curie

Research Infrastructures



Pillar II GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

Clusters

- Health
- Culture, Creativity & Inclusive Society
- Civil Security for Society
- Digital, Industry & Space
- Climate, Energy & Mobility
- Food, Bioeconomy, Natural Resources, Agriculture & Environment

Joint Research Centre



Pillar III INNOVATIVE EUROPE

European Innovation
Council

European innovation
ecosystems

European Institute of
Innovation & Technology*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

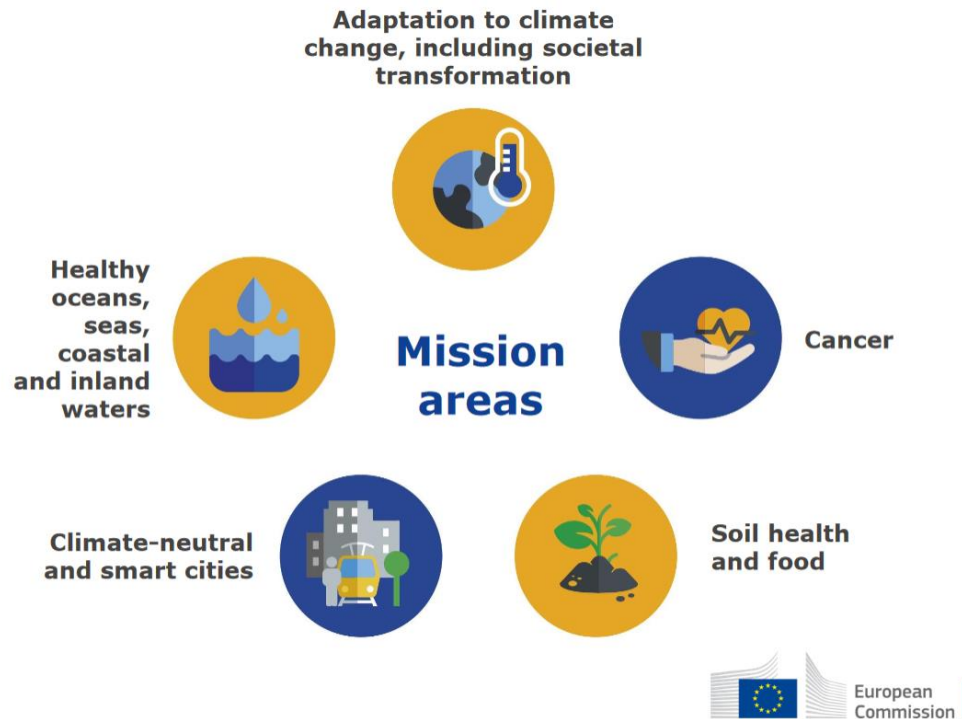
Fusion

Fission

Joint
Research
Center

* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Horizon Europe: Priorities



What are the missions?

Partially inspired in Apollo Mission 11 of placing a man on the moon, the european missions for research and innovation seek to provide **solutions to some of the greatest challenges** that our world faces.

Each mission is a mandate to solve an urgent challenge in society within a respective timeline and budget.

Work Program now available (mostly CSA)

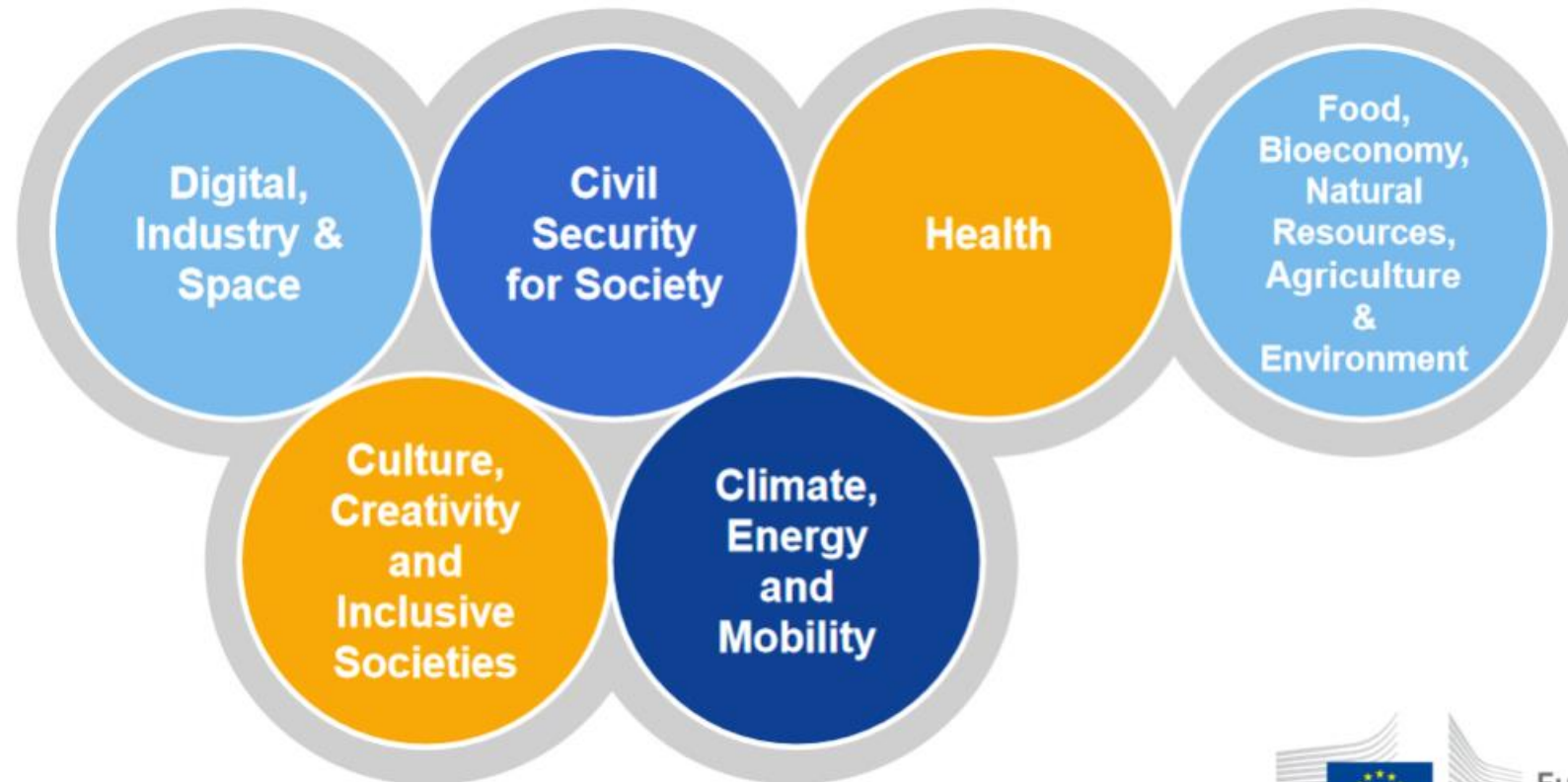
R&I Missions

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.

Pillar II - Six Clusters

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May 2019 | Version 25



The Work-Programme define **Destinations, Calls, and Topics** for funding over the next 2 years of Horizon Europe



Horizon Europe: Priorities

A sustainable, just and prosperous future for people and planet based on European values.

- **Fighting climate change** (35% budget target)
- Helping to achieve **Sustainable Development Goals**
- Boosting the **Union's competitiveness and growth**





health

Maria João Neves

PROJETOS de
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2022

Aim: to aggregate and enhance **basic and translational research** that crosses several areas of knowledge with the capacity to generate **new knowledge of excellence** to face challenges and factors related to health, contributing to the **understanding of diseases and health**, improving the average **healthy life expectancy**, and designing sustainable approaches to **digital transformation** and the provision of integrated and accessible health and care services for all populations.

Topics:

Lifelong health

Ageing

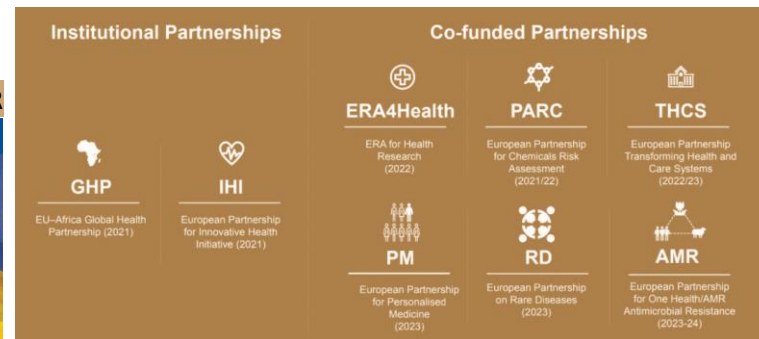
Environmental and social determinants of health

Noncommunicable Diseases, Rare Diseases, Infectious Diseases

Advanced, technological or digital therapies, **tools, technologies and solutions for health and care**, including personalized medicine

Global Health

Health Systems



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Aim: to aggregate and enhance research in order to contribute to the **knowledge, safeguarding and promoting of heritage and culture**. This strategic area will also contribute to respond to multifaceted **social, economic, technological and cultural changes** related to **democratic governance**, participation, **inclusion** and the **security of citizens**.



Mission:

- Adaptation to climate change including societal transformation

Partnerships: (cII open) EIT 2021-2027
KIC Cultural and Creative Industries.

Horizon Europe - Pilar II, Cluster 2; Cluster 3



digital, industry and space

Natacha Leite

PROJETOS de
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Aim: Gather and enhance research of excellence and innovation such as to promote the **transformation of our society and economy** through **digital and space technologies**, as well as the development of a **low-carbon, circular and clean industry**.

Research areas:

AI IoT HPC

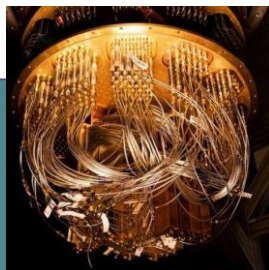
Robotics

eXtended Reality

From Cloud to Edge

Quantum

NGI.



green advanced manufacturing

resilient circular industry

sustainability-by-design
materials

climate-neutral industry

sustainable industry commons



Earth Observation

Space Weather Events

Use of Copernicus
Galileo

GOVSATCOM EGNSS

Mission areas



Horizon Europe - Pilar II, Cluster 4



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climate, energy and mobility

Shiva Saadatian

PROJETOS de
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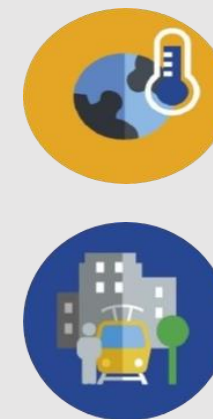
Aim: Gather and foster research and development of solutions to mitigate **climate change impacts**, and to make the **energy and transport sectors** more **climate and environment-friendly**, more **sustainable and competitive**, smarter, safer and more resilient.

Research Areas:

- Sustainable Cities and Communities;
- Climate Science and Solutions;
- Zero-Emission Transport Solutions;
- Renewable Energy Technologies;
- Energy Storage;
- Leading-edge Technologies in Battery Materials;
- Clean Energy Transition;
- Smart Mobility services;



Mission Areas





Isabel Neves

natural resources, agrifood and environment

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Aim: to aggregate and enhance the research and development of solutions to **reduce environmental degradation**, halt and reverse the decline of **biodiversity** and better manage **natural resources** while ensuring **food and water security** and accelerating the transition for more **sustainable human activities**.

Research areas:

- **biodiversity** and natural resources
- agriculture, forestry and **rural areas**
- seas, oceans and inland **waters**
- farming and **food systems**
- bio-based and **circular systems**
- bioeconomy
- **innovative governance** and supporting policies
- socio-economic models and **community engagement**
- **digital** solutions



Mission areas



Contacts

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2022

Q&A

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