



**PERIN** Portugal in Europe  
Research and Innovation Network

**FCT** Fundação  
para a Ciência  
e a Tecnologia



**AICIB** Erasmus+

**DGES**  
Direção-Geral do Ensino Superior

**CIÊNCIA VIVA**

## SESSION OUTLINE

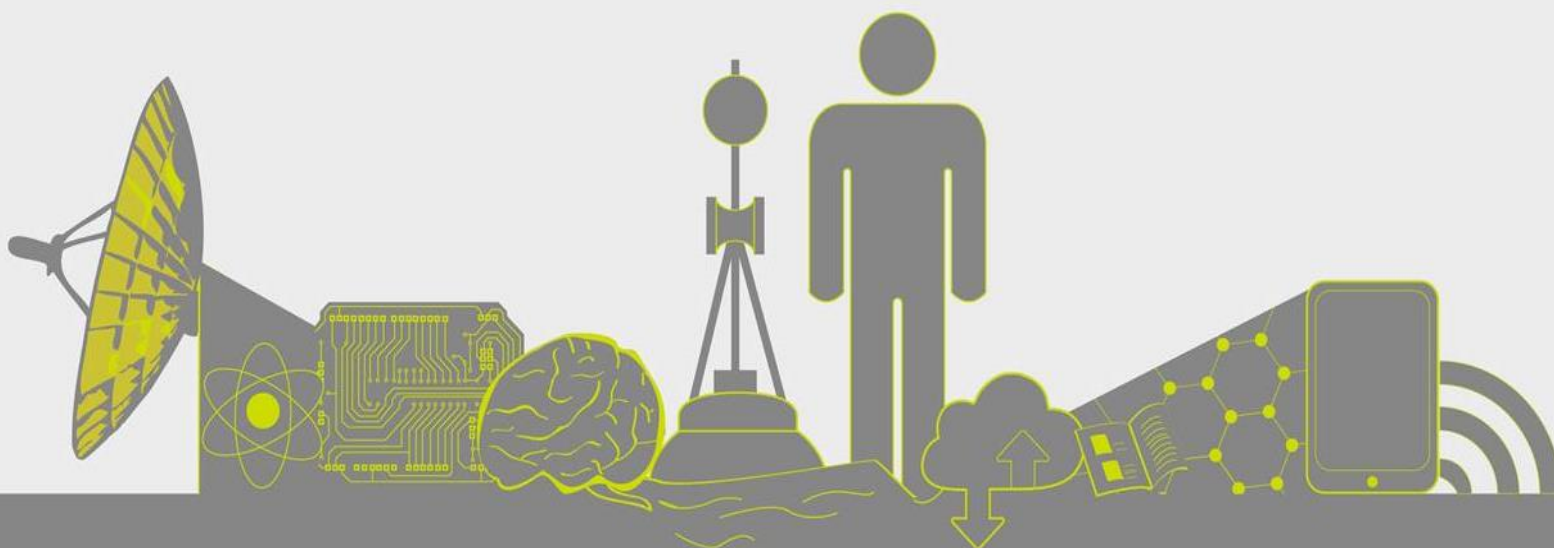
- Opening Remarks - *Helena Pereira, FCT*
- FCT and Portugal in Europe Research and Innovation Network (PERIN) – *Rui Munhá, FCT*
- Horizon Europe – Pillar I, European Research Council
  - *Rui Munhá/Luis Mota (NCPs), Marta Moita (F.Champalimaud), Pedro Camanho (FEUP)*
- Horizon Europe – Pillar I, Marie Skłodowska-Curie Actions
  - *Luis Mota/David Marçal (NCPs), Carlos Rodrigues (UA)*
- Horizon Europe – Pillar I, Research Infrastructures
  - *Marta Abrantes/Daniel Carapau (NCPs), Adelino Canário (UAlg)*

# Horizon Europe – Pillar I (Scientific Excellence)

European Research Council

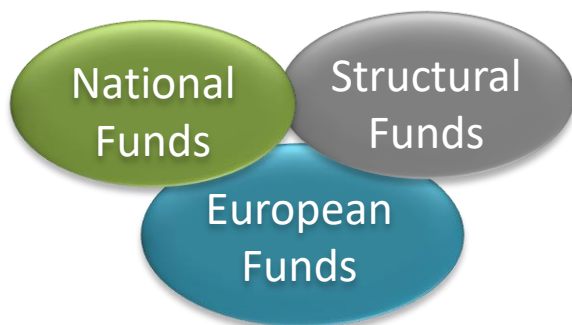
Marie Skłodowska-Curie Actions

European Research Infrastructures



# Opening Remarks: Strategic Outline

## Leverage Effect & Complementarity



## Targets



## Cooperation & Interlinkages



# Horizon Europe: 2021-2027

## Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie  
Actions

Research Infrastructures

## Pillar 2

Global Challenges and  
European Industrial  
Competitiveness

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

Joint Research Centre

## Pillar 3

Innovative Europe

European Innovation Council

European innovation  
ecosystems

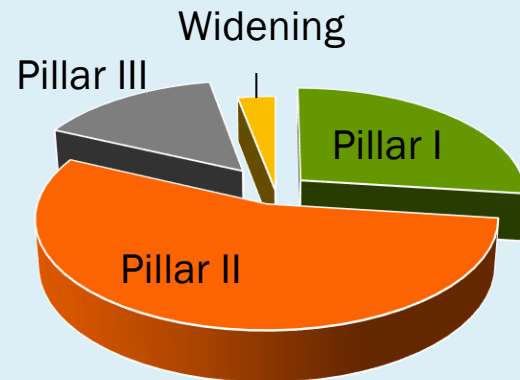
European Institute of  
Innovation  
and Technology

## Widening Participation and Strengthening the European Research Area

Widening participation and spreading excellence

Reforming and Enhancing the European R&I system

## Horizon Europe Budget Breakdown





# Horizon Europe: 2021-2027

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## FCT: NCPs and National Delegates



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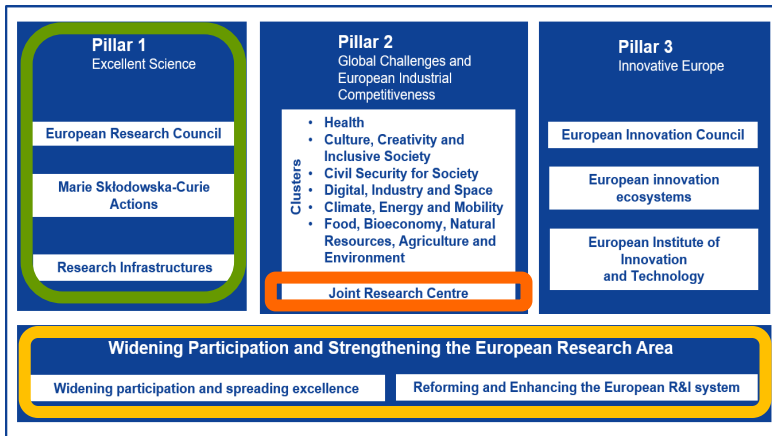
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EURATOM



# European Research Council

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**European Research Council**

Established by the European Commission

*Investigator-driven* programme supporting **frontier research** through a **bottom-up, pan-European** competition in **all fields** of science

## ERC GRANTS

- Develop your own ideas
- Financial autonomy
- Leadership and Independence to choose your research team and collaborators (without country restrictions)
- Negotiate working conditions with Host Institution
- Grant Portability inside the EU (and Associated Countries)
- Attract additional funding



## TYPE OF PROPOSALS

- Interdisciplinary research
- New and emerging research topics, beyond the current state-of-the-art, including applied research
- High risk / High gain approach
- Audacious, unconventional, innovative
- Viable and with sound implementation

## PRINCIPAL INVESTIGATOR

- All Nationalities
- All Ages
- All Genders
- All Career Stages

## HOST INSTITUTION

- Public or Private
- From an EU Member State or Associated Country
- Host institution is not an evaluation criterion

# European Research Council: Grants

## Starting Grants

Early Stage Career  
2-7 years after PhD.  
(≥ 50% commitment)  
**Up to 1.5 M€, 5 years**

## Consolidator Grants

Career Consolidation  
7-12 years after PhD.  
(≥ 40% commitment)  
**Up to 2.0 M€, 5 years**

## Advanced Grants

Significant track record  
Achievements in the last 10 years  
(≥ 30% commitment)  
**Up to 2.5 M€, 5 years**

## Proof-Of-Concept

Bridging research and earliest  
stage of marketable innovation  
150 K€ for ERC Grant Holders  
ONLY

## Synergy Grants

Joint breakthrough knowledge which cannot  
be achieved by a single PI  
**2-4 PIs, Up to 10 M€, 6 years**

# European Research Council: Calendar\*

*\*Provisional dates, depend on formal approvals*

CALENDAR

	Starting Grant	Consolidator Grant	Advanced Grant	Proof of Concept Grant
Call identifier	ERC-2021-StG	ERC-2021-CoG	ERC-2021-AdG	ERC-2021-PoC
Call Opens	12/01/2021	21/01/2021	20/05/2021	14/01/2021
Call closes (cut-off dates for PoC)	09/03/2021	20/04/2021	31/08/2021	16/03/2021
				17/06/2021
				20/10/2021
Indicative date for signature of grant agreements (by cut-off date for PoC)	19/04/2022	26/07/2022	10/09/2022	28/10/2021
				02/02/2022
				27/05/2022

# Contacts

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dedicated to ***Horizon Europe***

## Horizon Europe – Pillar I, ERC

- *Marta Moita (F.Champalimaud)*
- *Pedro Camanho (FEUP)*



# Marie Skłodowska-Curie Actions

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# Marie Skłodowska-Curie Actions: Introduction

## MSC Actions

- Based on mobility (international, intersectoral, interdisciplinary);
- All scientific domains;
- Strong focus on participation of industry, SMEs and non-academia partners;
- Level of involvement is proportional to the participant's needs.



# Marie Skłodowska-Curie Actions

## Doctoral Networks

*(Innovative Training Networks)*

*Integration of panels*

*360 PMs (+180 PMs for Industrial and Joint Doctorates)*

## Postdoctoral Fellowships

*(Individual Fellowships - IFs)*

*Integration of Panels*

*12-24 m. for European Fellowships;*

*24-36 m. for Global Fellowships*

*(+ 6 m. in non-academic partner)*

## Staff Exchange

*(Research and Innovation Staff Exchange – RISE)*

*Intersectoral secondments are privileged but interdisciplinary are possible within Europe*

## COFUND

*(COFUND)*

*Maximum of 10 M € and 60 months; minimum of 3 hired researchers*

*Focus on new beneficiaries*

## Citizens

*(European Researchers' Night)*

*Events up to 2 days*

*Focus on Green Deal*

# Marie Skłodowska-Curie Actions: Calendar

## PROVISIONAL CALENDAR OF CALLS *(MAY BE SUBJECT TO CHANGE)*

Action	Opens	Closes
Doctoral Networks	04 May 2021	16 Nov. 2021
Postdoctoral Fellowships	15 Apr. 2021	15 Sep. 2021
Staff Exchanges	15 Apr. 2021	22 Sep. 2021
COFUND	22 Apr. 2021	06 Oct. 2021
Citizens	17 Jun. 2021	16 Nov. 2021

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# Horizon Europe – Pillar I, Marie Skłodowska-Curie Actions

- *Carlos Rodrigues (UA)*

# Research Infrastructures

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# Research Infrastructures play a central role in the European Research Area

## Research infrastructure ecosystem:

- Resources and services for researchers and industry
- European AND national infrastructures
- Equipment / sets of instruments
- Collections, archives, datasets
- Computing networks
- Communication systems
- Single sited, distributed, virtual
- ...

- Curiosity driven frontier research
- Supporting innovation
- Creating (open) data
- Education
- Capacity building
- Innovation hubs
- Pan-European networks

## Contribution to EU key objectives:

- Green Deal (e.g. battery alliance)
- Recovery and Resilience (e.g. R&I services)
- Response to pandemics (e.g. COVID19 data platform)
- ERA objectives (e.g. education, innovation)
- EC priorities (e.g. open data platforms, innovation)

The **Research Infrastructure (RI) programme** aims at funding activities to ensure:

- joint planning and deployment of upgrades & new facilities;
- access for researchers across the EU, and training in RI services;
- continuous improvement of their services and align their offer to better tackle societal challenges;
- networking of national and European RIs;
- that European RIs continue to develop jointly services to achieve strategic objectives;
- national commitment and sustainable funding for RI operation;

Funding opportunities for RIs are not limited to Pillar 1 of Horizon Europe. **Missions, clusters, and partnerships in Pillar 2** provide numerous additional possibilities.

# Research Infrastructures in HORIZON EUROPE – what's new

The HE approach requires to shift the focus **from addressing a specific class of RIs** to **challenge-driven topics** and/or large scientific domains; HE RI topics are conceived to **involve different RIs**, even beyond those associated with their scientific domain, to ensure a **multidisciplinary approach** in addressing the identified challenge or in supporting curiosity-driven research.

The Work Programme (WP) is organized in **five Destinations**:

**Destination #1:** Developing, consolidating and optimising European Research Infrastructures landscape, maintaining global leadership

**Destination #2:** Enabling an operational, open and FAIR EOSC ecosystem

**Destination #3:** RI services to support health research, accelerate the green and digital transformation, and advance frontier knowledge

**Destination #4:** Next generation of scientific instruments, tools and methods and advanced digital solutions

**Destination #5:** Network connectivity - enabler for collaboration without boundaries



## Destination 1 – Developing, consolidating and optimising European Research Infrastructures landscape, maintaining global leadership

TOPICS – Calls for proposals	Expected proposal size (M€)	Type of action	Expected call year
RI concept development	1 - 3	RIA	2022
Preparatory phase of new ESFRI RI projects	1.5 - 3	CSA	2021
Support to ESFRI	1.5 - 2.5	CSA	2021
Strengthen the bilateral cooperation on RIs with Africa: improving the knowledge base on climate change	0.8 - 1.5	CSA	2021
Transition to digital/remote RI access and service provision: lessons learnt, needs and best practices	0.8 - 1.5	CSA	2021

## Destination 2 - Enabling an operational, open and FAIR EOSC ecosystem

SRIA objectives	TOPICS – Calls for proposals	Expected proposal size (M€)	Type of action	Expected call year
Open science practices and skills are rewarded and taught, becoming the 'new normal'	<b>Supporting an EOSC-ready digitally skilled workforce</b>	5-7	CSA	2021
	<b>Supporting the development and coordination of activities of the EOSC Partnership</b>	2-4	CSA	2021
	<b>Services and tools to underpin a research assessment system that incentivises open science practices</b>	2-3	RIA	2022
	<b>Improving &amp; coordinating technical infrastructure for institutional OA publishing across Europe</b>	3-5	RIA	2022
Sustainable and federated infrastructures enable open sharing of scientific results	<b>Deploying EOSC-Core components for FAIR</b>	7-10	RIA	2021
	<b>Innovative and customisable services for EOSC</b>	3-5	RIA	2021
Standards, tools and services allow researchers to find, access reuse and combine results	<b>Enabling discovery and interoperability of federated research objects across scientific communities</b>	7-10	CSA	2021
	<b>FAIR &amp; open data in support of European preparedness for infectious diseases</b>	5-10	RIA	2021
	<b>FAIR &amp; open data in support of “Mission Conquering Cancer: Mission Possible”</b>	5-10	RIA	2021
	<b>FAIR &amp; open data in support of “Mission Starfish 2030: Restore our Ocean and Waters”</b>	5-10	RIA	2022
	<b>Support for initiatives helping to generate global standards, specifications and recommendations for open sharing of FAIR data, publications &amp; software</b>	1-2	CSA	2022

## Destination 3 - RI services to support health research, accelerate the green and digital transformation, and advance frontier knowledge

<b>TOPICS – Calls for proposals</b>	<b>Expected proposal size (M€)</b>	<b>Type of action</b>	<b>Expected call year</b>
<b>RIs services for rapid research responses to infectious disease epidemics</b>	7 - 15	RIA	2021
<b>RIs services to support research addressing cancer</b>	7 - 15	RIA	2021
<b>RIs services for a sustainable and resilient agriculture and agro-ecological transitions</b>	7 - 15	RIA	2021
<b>RIs services for responding to climate-related risks on the environment</b>	7 - 15	RIA	2021
<b>RIs services enabling the development of materials for a circular economy</b>	7 - 15	RIA	2021
<b>RIs services for sustainable and inclusive Global Value Chain and EU recovery from socio-economic crisis</b>	7 - 15	RIA	2021
<b>Enabling RI services for better use of imaging data to address challenges in thematic research areas</b>	3 - 5	RIA	2022
<b>EBRAINS - Empowering neuroscience for health and brain inspired technology</b>	40	RIA	2022
<b>RIs services advancing frontier knowledge</b>	7 - 15	RIA	2021

## Destination 4 - Next generation of scientific instruments, tools and methods and advanced digital solutions

TOPICS – Calls for proposals	Expected proposal size (M€)	Type of action	Expected call year
R&D for the next generation of scientific instrumentation, tools and methods	5 – 10	RIA	2022
Interdisciplinary digital twins for modelling and simulating complex phenomena at the service of RI communities	10 - 15	RIA	2021



# Destination 5 - Network connectivity in Research and Education - Enabling collaboration without boundaries

TOPICS	Expected proposal size (M€)	Type of action
FPA for Research and Education Networks		FPA
Networking and collaboration services and investments in long-term capacity for Research and Education Networks in Europe	~40	SGA
Investments on international connectivity and collaboration	~40	SGA

AT THE HEART OF GLOBAL RESEARCH  
AND EDUCATION NETWORKING





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If you aim to collaborate or already collaborate with European Research Infrastructures or networks and want to know more about these funding opportunities, **contact us!**

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and at the ***FCT*** webpage  
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# Horizon Europe – Pillar I, European Research Infrastructures

- *Adelino Canário (UAlg)*

# Horizon Europe: 2021-2027

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