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 Sklodowska-Curie Actions
  • Luis Mota/David Marçal (NCPs), Carlos Rodrigues (UA)

• Horizon Europe – Pillar I, Research Infrastructures
  • Marta Abrantes/Daniel Carapau (NCPs), Adelino Canário (UA)
Horizon Europe – Pillar I (Scientific Excellence)
European Research Council
Marie Sklodowska-Curie Actions
European Research Infrastructures
Opening Remarks: Strategic Outline

**Leverage Effect & Complementarity**
- National Funds
- Structural Funds
- European Funds

**Targets**
- Participation Levels & Success Rates
- Internationalisation of the R&I Community
- Institutional Strengthening
- Research Careers
- Leverage and Defragmentation of Funds
- Knowledge: Production, Dissemination and Impact

**Cooperation & Interlinkages**
- Institutional Funding
- R&D Projects
- Horizon Europe
- Diaspora
- Cohesion & Regional Development
- Advanced Training
- Scientific Employment
Horizon Europe: 2021-2027

Pillar I
Excellent Science
- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

Pillar II
Global Challenges and European Industrial Competitiveness
- 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 III
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

- Pillar I
- Pillar II
- Pillar III
- Widening
Horizon Europe: 2021-2027

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EURATOM
European Research Council

PERIN
Portugal in Europe Research and Innovation Network

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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

- 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
European Research Council: Introduction

**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

<table>
<thead>
<tr>
<th>Call identifier</th>
<th>Starting Grant</th>
<th>Consolidator Grant</th>
<th>Advanced Grant</th>
<th>Proof of Concept Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ERC-2021-StG</strong></td>
<td><strong>ERC-2021-CoG</strong></td>
<td><strong>ERC-2021-AdG</strong></td>
<td><strong>ERC-2021-PoC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Call Opens</strong></td>
<td>12/01/2021</td>
<td>21/01/2021</td>
<td>20/05/2021</td>
<td>14/01/2021</td>
</tr>
<tr>
<td><strong>Call closes</strong></td>
<td>09/03/2021</td>
<td>20/04/2021</td>
<td>31/08/2021</td>
<td>16/03/2021</td>
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<tr>
<td>(cut-off dates for PoC)</td>
<td></td>
<td></td>
<td></td>
<td>17/06/2021</td>
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<tr>
<td></td>
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<td></td>
<td>20/10/2021</td>
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<tr>
<td><strong>Indicative date for signature of grant agreements</strong></td>
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<tr>
<td>(by cut-off date for PoC)</td>
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<tr>
<td>19/04/2022</td>
<td>26/07/2022</td>
<td>10/09/2022</td>
<td>28/10/2021</td>
<td>27/05/2022</td>
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<td>02/02/2022</td>
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</tbody>
</table>
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Visit us at perin.pt and at the FCT webpage dedicated to Horizon Europe
Horizon Europe – Pillar I, ERC

- Marta Moita (F.Champalimaud)
- Pedro Camanho (FEUP)
Marie Sklodowska-Curie Actions

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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*

<table>
<thead>
<tr>
<th>Action</th>
<th>Opens</th>
<th>Closes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctoral Networks</td>
<td>04 May 2021</td>
<td>16 Nov. 2021</td>
</tr>
<tr>
<td>Postdoctoral Fellowships</td>
<td>15 Apr. 2021</td>
<td>15 Sep. 2021</td>
</tr>
<tr>
<td>Staff Exchanges</td>
<td>15 Apr. 2021</td>
<td>22 Sep. 2021</td>
</tr>
<tr>
<td>COFUND</td>
<td>22 Apr. 2021</td>
<td>06 Oct. 2021</td>
</tr>
<tr>
<td>Citizens</td>
<td>17 Jun. 2021</td>
<td>16 Nov. 2021</td>
</tr>
</tbody>
</table>
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Horizon Europe – Pillar I, Marie Sklodowska-Curie Actions

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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
• ...

Contribution to EU key objectives:
• Curiosity driven frontier research
• Supporting innovation
• Creating (open) data
• Education
• Capacity building
• Innovation hubs
• Pan-European networks

• 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.
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

<table>
<thead>
<tr>
<th>TOPICS – Calls for proposals</th>
<th>Expected proposal size (M€)</th>
<th>Type of action</th>
<th>Expected call year</th>
</tr>
</thead>
<tbody>
<tr>
<td>RI concept development</td>
<td>1 - 3</td>
<td>RIA</td>
<td>2022</td>
</tr>
<tr>
<td>Preparatory phase of new ESFRI RI projects</td>
<td>1.5 - 3</td>
<td>CSA</td>
<td>2021</td>
</tr>
<tr>
<td>Support to ESFRI</td>
<td>1.5 - 2.5</td>
<td>CSA</td>
<td>2021</td>
</tr>
<tr>
<td>Strengthen the bilateral cooperation on RIs with Africa: improving the knowledge base on climate change</td>
<td>0.8 - 1.5</td>
<td>CSA</td>
<td>2021</td>
</tr>
<tr>
<td>Transition to digital/remote RI access and service provision: lessons learnt, needs and best practices</td>
<td>0.8 - 1.5</td>
<td>CSA</td>
<td>2021</td>
</tr>
</tbody>
</table>
### Destination 2 - Enabling an operational, open and FAIR EOSC ecosystem

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

<table>
<thead>
<tr>
<th>Destination 3 - RI services to support health research, accelerate the green and digital transformation, and advance frontier knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOPICS</strong> – Calls for proposals</td>
</tr>
<tr>
<td>RI services for rapid research responses to infectious disease epidemics</td>
</tr>
<tr>
<td>RI services to support research addressing cancer</td>
</tr>
<tr>
<td>RI services for a sustainable and resilient agriculture and agro-ecological transitions</td>
</tr>
<tr>
<td>RI services for responding to climate-related risks on the environment</td>
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<tr>
<td>RI services enabling the development of materials for a circular economy</td>
</tr>
<tr>
<td>RI services for sustainable and inclusive Global Value Chain and EU recovery from socio-economic crisis</td>
</tr>
<tr>
<td>Enabling RI services for better use of imaging data to address challenges in thematic research areas</td>
</tr>
<tr>
<td>EBRAINS - Empowering neuroscience for health and brain inspired technology</td>
</tr>
<tr>
<td>RI services advancing frontier knowledge</td>
</tr>
</tbody>
</table>
### TOPICS – Calls for proposals

<table>
<thead>
<tr>
<th>R&amp;D for the next generation of scientific instrumentation, tools and methods</th>
<th>5 – 10</th>
<th>RIA</th>
<th>2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interdisciplinary digital twins for modelling and simulating complex phenomena at the service of RI communities</td>
<td>10 - 15</td>
<td>RIA</td>
<td>2021</td>
</tr>
</tbody>
</table>

**Destination 4 - Next generation of scientific instruments, tools and methods and advanced digital solutions**
## Destination 5 - Network connectivity in Research and Education - Enabling collaboration without boundaries

<table>
<thead>
<tr>
<th>TOPICS</th>
<th>Expected proposal size (M€)</th>
<th>Type of action</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPA for Research and Education Networks</td>
<td></td>
<td>FPA</td>
</tr>
<tr>
<td>Networking and collaboration services and investments in long-term capacity for Research and Education Networks in Europe</td>
<td>~40</td>
<td>SGA</td>
</tr>
<tr>
<td>Investments on international connectivity and collaboration</td>
<td>~40</td>
<td>SGA</td>
</tr>
</tbody>
</table>
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!**

Visit us at **perin.pt**  
and at the FCT webpage dedicated to Horizon Europe
Horizon Europe – Pillar I,
European Research Infrastructures

- Adelino Canário (UAIG)
Horizon Europe: 2021-2027

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