# Portugal in Europe Research and Innovation Network

# European INNOVATION







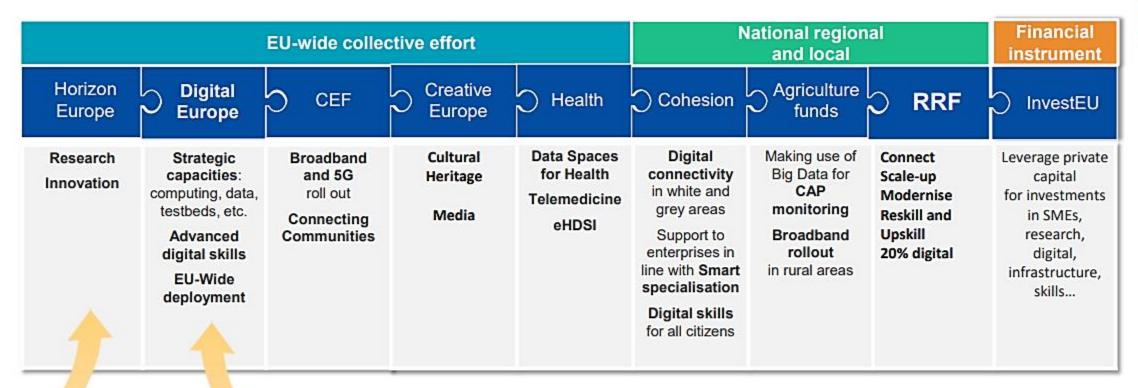




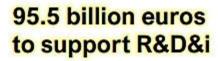




## **EU** funding programmes







7,5 billion euros to support Digital deployment



# HORIZONTE EUROPA







#### SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\*

Exclusive focus on civil applications



European Research Council

Marie Skłodowska-Curie

Research Infrastructures



#### Pillar II

GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL COMPETITIVENESS

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

Joint Research Centre



European Innovation Council

European innovation ecosystems

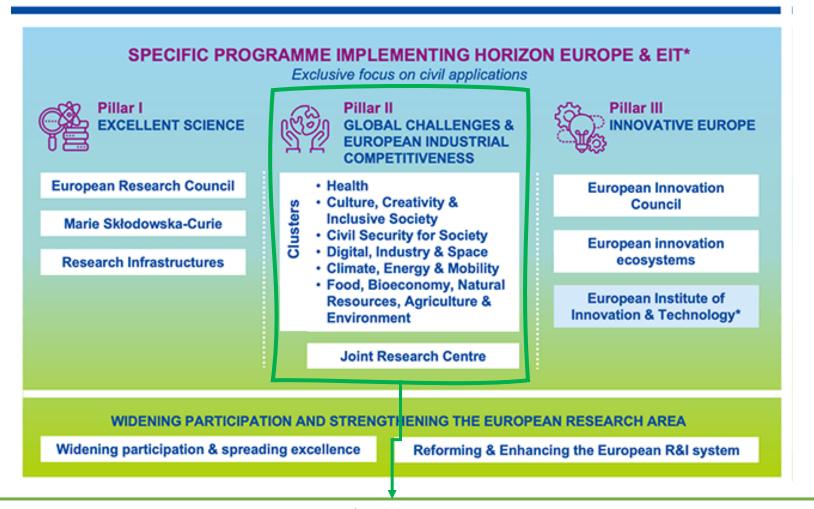
European Institute of Innovation & Technology\*

WIDENING PARTICIPATION AND STRENGTHENING THE EUROPEAN RESEARCH AREA

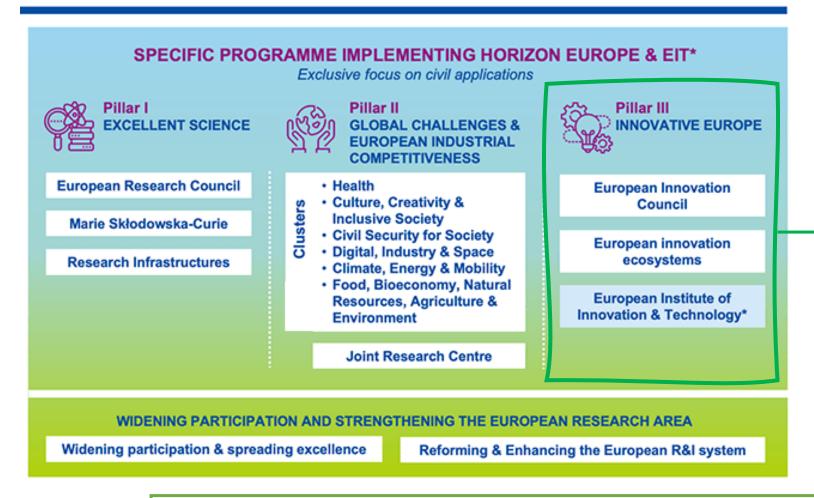
Widening participation & spreading excellence

Reforming & Enhancing the European R&I system

- Ciência de classe mundial para as tecnologias, empregos e bem-estar
- Desenvolver, atrair e reter talentos de investigação
- Melhor acesso às melhores infraestruturas



- Preocupações dos cidadãos e da sociedade / objetivos políticos da UE
- Desenvolver, testar, demonstrar soluções inovadoras em colaborações multidisciplinares
- Oportunidades Top-down



- Investimentos estratégicos em tecnologias-chave, disruptivas e emergentes
- Atrair mais investimento privado em investigação e inovação
- Inovação para pequenas e médias empresas (PMEs) para criar crescimento e empregos

#### SPECIFIC PROGRAMME IMPLEMENTING HORIZON EUROPE & EIT\*

Exclusive focus on civil applications



**European Research Council** 

Marie Skłodowska-Curie

Research Infrastructures



Clusters

#### Pillar II

**GLOBAL CHALLENGES & EUROPEAN INDUSTRIAL** COMPETITIVENESS

- Health
- · Culture, Creativity & Inclusive Society
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Joint Research Centre



**European Innovation** Council

European innovation ecosystems

European Institute of Innovation & Technology\*

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Widening participation & spreading excellence

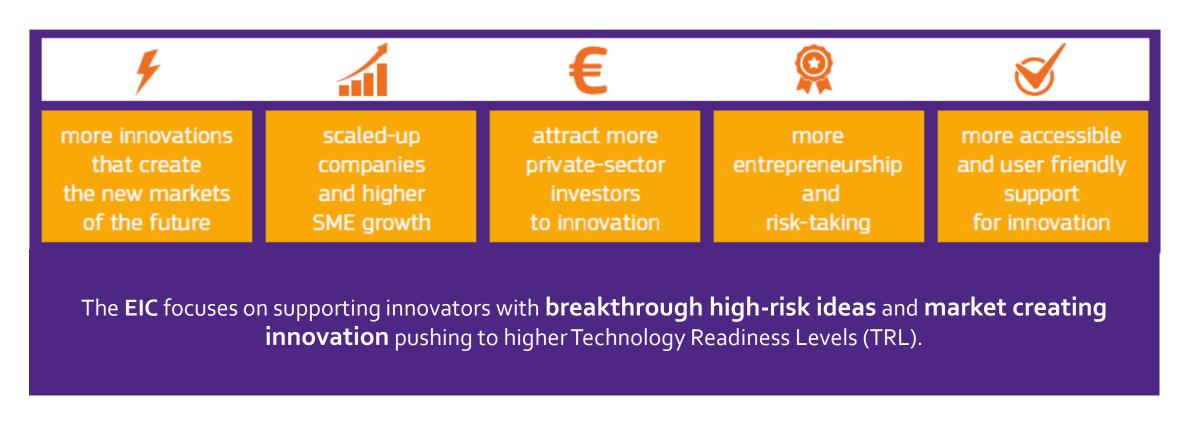
Reforming & Enhancing the European R&I system

https://eic.ec.europa.eu/index en





### THE EIC: EU LEADERSHIP IN THE NEXT WAVE OF INNOVATION







Communication



International network





Winning business models



IΡ



Regulation of international markets

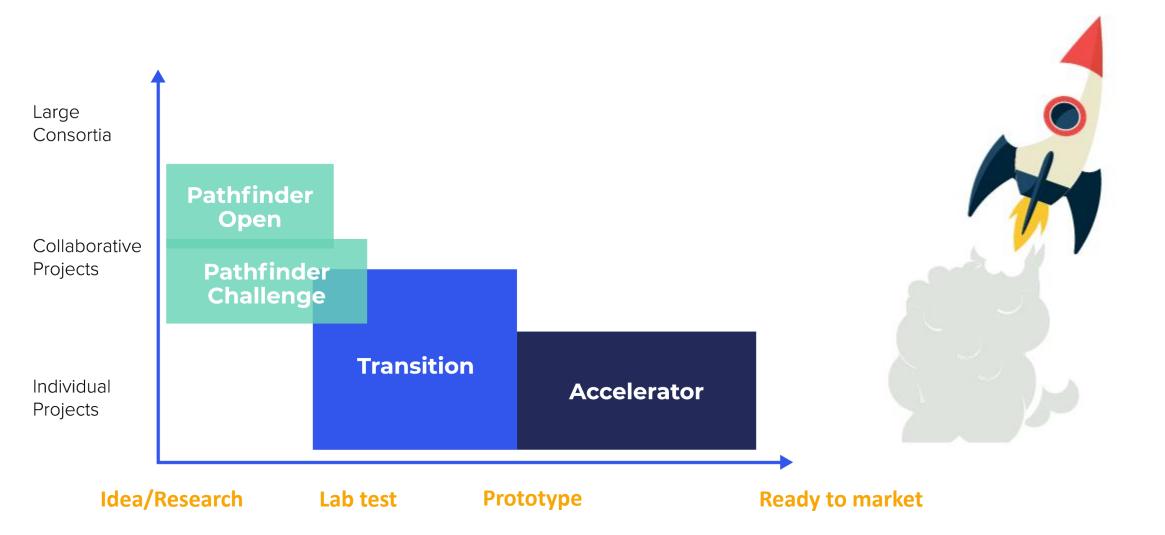


Deep Tech



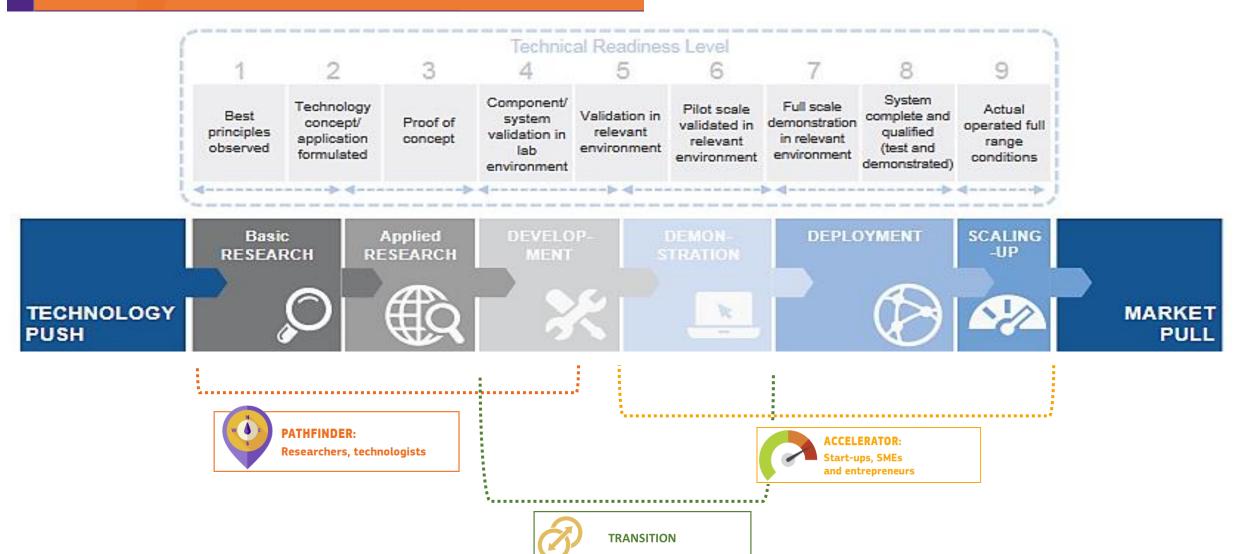


### **EIC INSTRUMENTS**





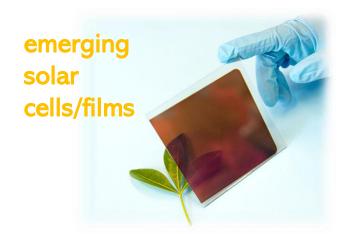
### **EIC INSTRUMENTS**

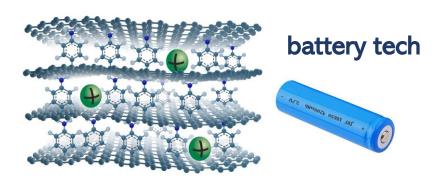


### ei Ei

## FROM IDEA TO MARKET

3D X-ray imaging





Quantum tech



electromagnetic energy

#### IS MY IDEIA WORTH IT?

https://eic.easme-web.eu/# or cordis



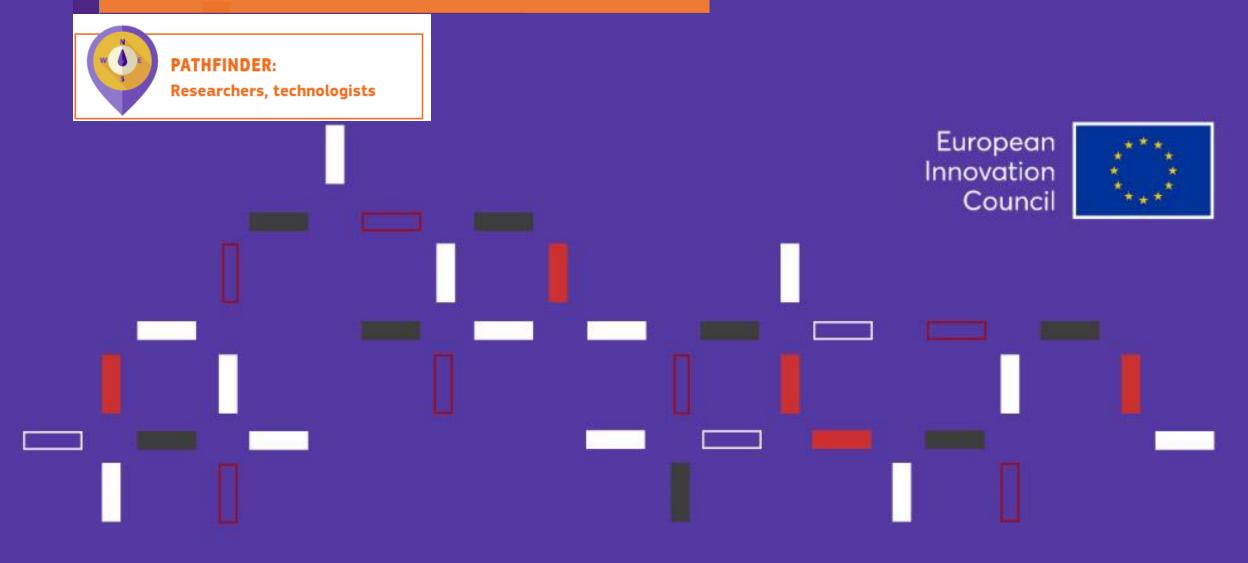
Biocompatible Medical devices

Microscale implants



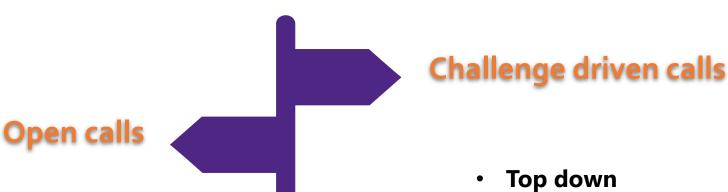
stem cell diabetes treatment







# Type of Calls



- **Bottom up**
- No predefined thematic priorities
- **Technologies and innovations in different** scientific, technological, sectoral and application fields or represent novel combinations.

- **Specific and predefined** technological and innovation breakthroughs that take into account priorities from (EU, stakeholders, experts and the EIC Board).



# OPEN



• Do you have a vision disruptive technology that could **make a real difference to our lives**? positive effect to our economy and society

• Do you see a plausible way of achieving the **scientific breakthrough** that will make this technology possible?

#### **WHAT**

- Can you imagine **collaborating** with an interdisciplinary team of researchers and innovators?
- Get to proof of principle and validate the scientific basis of the future technology?
- Ambitious vision for **radically new technology**, with potential to **create new markets**
- **High-risk/high-gain research** (e.g. research risk, market risk)







# OPEN



**WHO** 

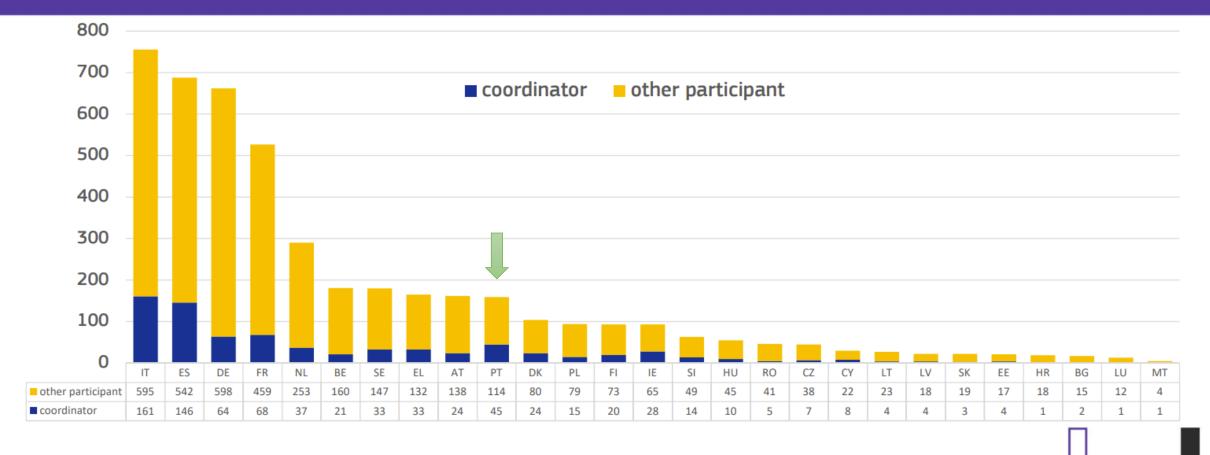
- academia
- research organisations
- start-ups
- SMEs
- industry interested in technological research and innovation

Collaborative interdisciplinary team of researchers and innovators

- Consortium that includes at least three independent legal entities, each one established in a different Member State (minimum 1) or associated country
- Consortium min 3 partners

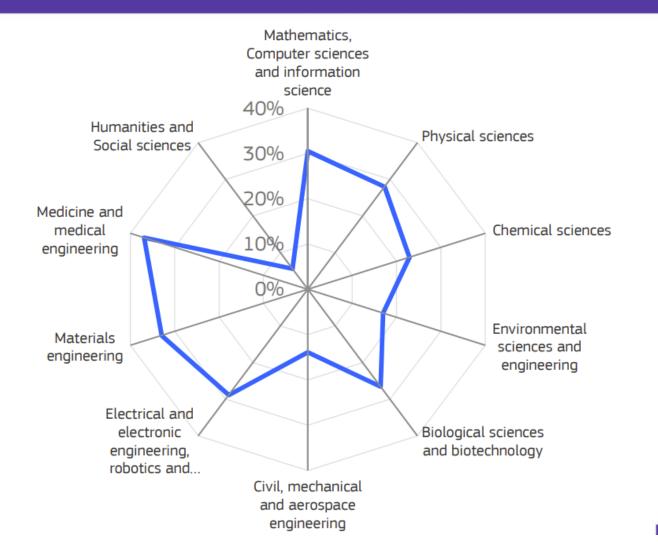
# EU countries' participation in submitted proposals PATHFINDER OPEN 25 May 2021 cut-off





# Disciplines coverage in submitted proposals PATHFINDER OPEN 25 May 2021 cut-off





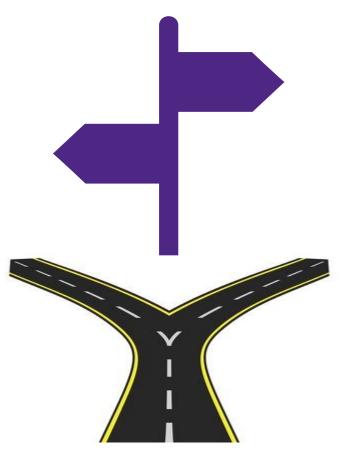


## **CALLS**

## **Open calls**

Grant up to: 3 M€

Call deadline: 04/May/2022 Indicative Budget: 183 M€



## Challenge driven calls

Grant up to: 4 M€

Call deadline: 19/Out/2022 Indicative Budget: 167 M€



# CHALLENGES



**WHAT** 

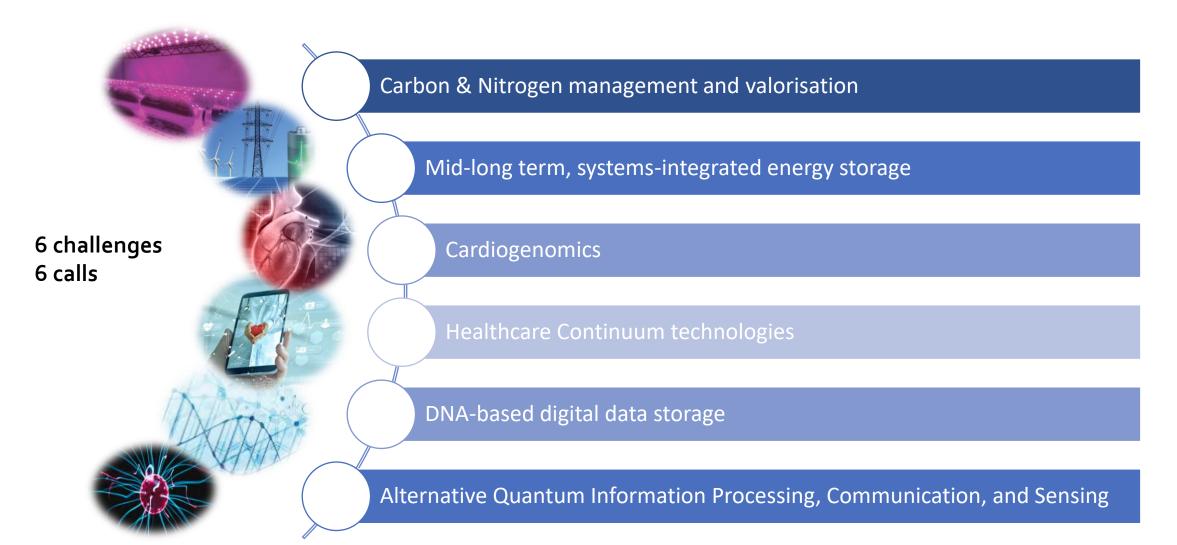
- Build on new, cutting-edge directions in science and technology to disrupt a field and a market
- EIC will establish a **portfolio of projects** that explore different perspectives, competing approaches or complementary aspects of the Challenge
- A dedicated **EIC Programme Manager**, who establishes a need-driven plan and actively steers the portfolio towards the goals of each Challenge
- You should apply if you have a potential project that would **contribute to the specific objectives of the respective Challenge.**







# CHALLENGES





# **EVALUATION CRITERIA**

aspects to be taken into account in the proposal

## the proposal is good, however...

the proposal presents a high-risk / high-gain research approach (...) However, (...) shortcomings related to the plausibility of the planned approach due to its limited description

the vision is ambitious, novel, and would represent a clear science to technology breakthrough on several fronts. However (...) the plausibility of the **high-risk / high gain** objectives to be limited by a lack of certain details and **specificity** in the proposal.

(...) the **technological objectives** and their **novelty** are not sufficiently substantiated.

(...) the proposal is not showing a **radically new technology**. The approach and methodology do not have a **high risk nature**, since the research is largely incremental.

The targeted science-to-technology breakthroughs appear realistic, but lack the expected transformational novelty and **high risk** character.

## the proposal is good, however...

(...) doubts on the transformative positive effect to our economy and society of this technology

The vision of the proposal is ambitious, but it does not demonstrate a **radical character**. The advances in the **state of the art** towards achieving the envisioned **science-towards-technology** breakthrough are insufficiently described

The long-term vision is clear, however, it is **not novel**.

The comparison of the **state-of-art** key-performance indicators is not well argued and the **science-towards-technology breakthrough is incremental**. The **high risk/high** gain of the planned research is insufficiently addressed

### **Excellence (Threshold: 4/5, weight 60%)**

#### Long-term vision and contributions:

- Contribution of the project and solution to the new visionary technology to in long term
- Transformative and positive effect in value chains, science, economy and society in long term
- Specific contributions and effects of the project, and not R&I in general in this field

#### **Science-towards-technology breakthrough:**

- concrete science-towards-technology breakthrough of the project
- relevant state-of-the-art in the field, pointing the project novelty and ambition
- contribution of the science-towards-technology breakthrough to the realization of the envisioned technology

#### Objectives, methods and results:

- objectives of the project clear, plausible, measurable, verifiable and realistically achievable within the duration of the project
- research approach and methodology including the concepts, models and assumptions, and why they are appropriate to overcome barriers and uncertainties
- Gender and sex dimension, and "do no harm" principle

#### **Interdisciplinarity**:

• interdisciplinary approach engaging contributions from different scientific and technological disciplines, and its importance

### Impact (Threshold: 3.5/5, weight 20%)

#### **Innovation potential**:

- Impacts, KPIs, and concrete measures and plans to maximize impacts of your project (different from long term vision in section 1)
- Strategy for exploitation for future translation of research results into innovations (potential business plan model?)
- Future steps to increase TRL, and get addicion support (grants, equity, investors, other instruments)
- Strategy to engage stakeholders and relevant value chain actors (suppliers, researchers, distributors, sellers)
- Value chain and markets to affect
- Strategy (only a strategy not activities) for the management of intellectual property (patents, design rights, copyright, trade secrets etc.)
- Measures to empower key actors and entrepreneurship (i.e. early career researchers, promising high-tech SMEs, start-ups)

#### **Communication and Dissemination:**

- Foreseen measures and plans for stakeholder and general public engagement
- Stakeholder and public communication, events, materials
- Publications, conferences
- Open science
- Plan for Research data management and management of other results

### Quality and efficiency of the implementation (Threshold 3/5, weight 20%)

#### **Quality of the consortium:**

- Expertise and capabilities of the consortium members relevant to the project
- Relevance and complementarity of each member to the project (avoid overlaps or gaps), including relevance in the interdisciplinarity

#### **Work plan:**

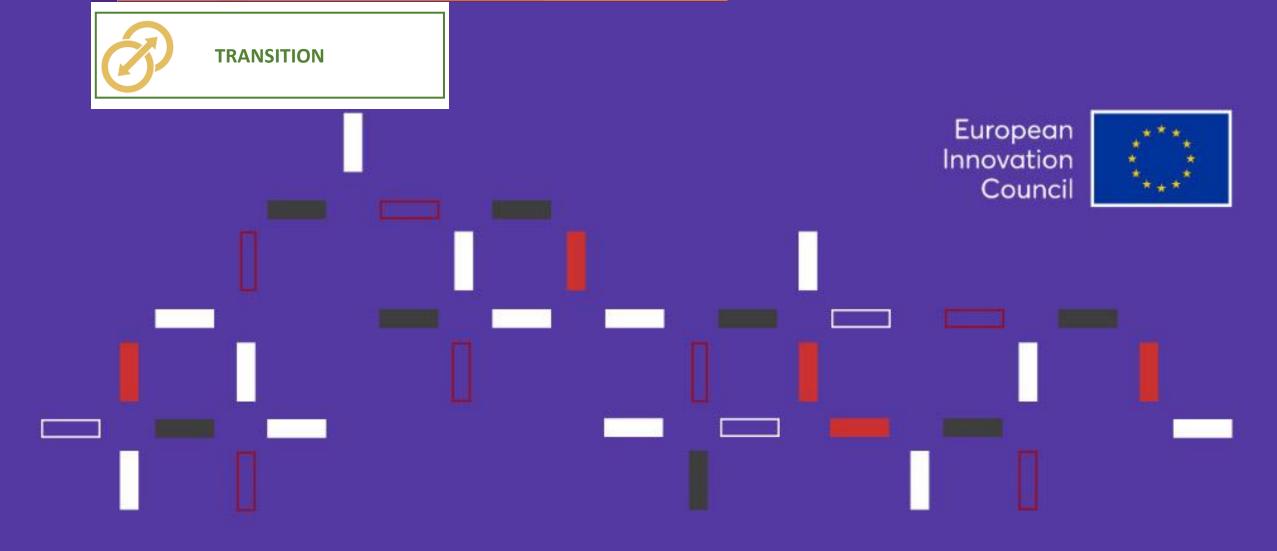
- Structure (overall WP and workflow, and gannt)
- work packages, tasks, deliverables, milestones, time-line, etc.
- risk mitigation measures in order to achieve the project objectives
- Get to the proof-of-concept!
- Be specific and concrete!

#### **Allocation of resources:**

Budget – RH, Equipment, Services, Travel, other goods.

# eic

# FROM IDEA TO MARKET





# OPEN



**WHAT** 

- Have you identified **EIC Pathfinder**, **FET** or **ERC Proof of Concept** project results that could be the basis for ground-breaking innovations and new businesses?
- Is this novel technology ready for the next steps towards its maturation and validation in some specific applications?
  - Do you envisage building a motivated and diverse team to develop the idea towards commercialisation?
- Address market readiness towards commercialisation and deployment (market research, business case, prospects for growth, intellectual property protection, competitor analysis etc.) and other relevant aspects of regulation, certification and standardisation, aimed at getting both the technology and the business idea investment-ready.





# OPEN



#### **WHO**

- academia
- research organisations
- start-ups
- SMEs
- industry interested in technological research and innovation

 EIC Transition is restricted to proposals based on results generated by the following eligible projects:

**EIC Pathfinder** projects (including projects funded under EIC pilot **Pathfinder**, **Horizon 2020 FET-Open**, **FET-Proactive**) and FET Flagships calls (including ERANET calls under the FET Work Programme), **European Research Council (ERC) Proof of Concept** projects.

(projects active for 12 months, or 24 months after its completion)

 Single entities (university, research, SME) or a consortium up to 5 partners (all institutions)



# **CALLS**

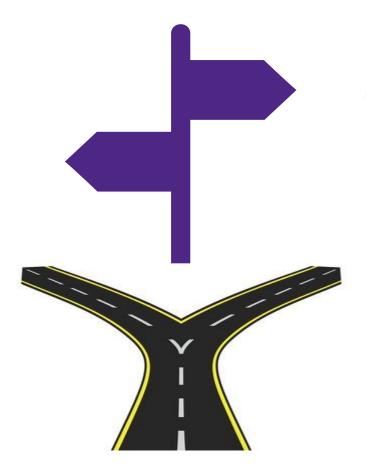
## **Open calls**

Grant up to: 0.5 – 2.5 M€

Call deadline: 4 May

28 Set

*Indicative Budget:* 70,9 M€



### Challenge driven calls

Grant up to: 0.5 – 2.5 M€

Call deadline: 4 May

28 Set

*Indicative Budget:* 60.5 M€



# CHALLENGES



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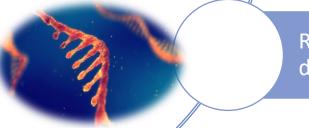
# CHALLENGES



Green digital devices for the future

3 challenges 3 calls

Process and system integration of clean energy technologies



RNA-based therapies and diagnostics for complex or rare genetic diseases















WHAT

- Do you have a high-impact innovative product, service or business model that could create new markets or disrupt existing ones in Europe and even worldwide?
- Are you a start-up or a small and medium-sized enterprise (SME) with the ambition and commitment to scale up?
- Are you looking for substantial funding but the risks involved are too high for private investors alone to invest?





### **FINANCING** - The EIC Accelerator provides blended finance

- An investment component usually in the form of direct equity or quasi-equity such as convertible loans.
  - EUR 0.5 up to 15 million investment component for scaling up and other activities.
- A grant component to reimburse eligible costs incurred for innovation activities
  - Up to EUR 2.5 million grant component for technology development (TRL 5/6 to 8);







**WHO** 

- start-ups
- SMEs
- small mid-caps

- The EIC Accelerator supports companies (principally SMEs, including start-ups) to scale up high impact innovations with the potential to create new markets or disrupt existing ones.
- Single start-ups and SMEs (including spin-outs), individuals (intending to launch a start-up/ SME) and in exceptional cases small mid-caps (fewer than 499 employees)



## **CALLS**

#### **Open calls**

Up to EUR 2.5 million grant component for technology development (TRL 5/6 to 8); EUR 0.5 up to 15 million investment component for scaling up and other activities.

Call deadline:

Short applications: continuous

Full Applications: 23 March

15 June 5 October

*Indicative Budget:* 539.6 M€



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## CHALLENGES



Technologies for Open Strategic Autonomy

2 challenges2 calls



Technologies for 'Fit for 55'

## ej.C

## FROM IDEA TO MARKET



#### **PATHFINDER:**

Researchers, technologists



#### **TRANSITION**



#### **ACCELERATOR:**

Start-ups, SMEs and entrepreneurs

European Innovation Council



## MORE ACTIONS









#### **EIC Community and Business Acceleration Services**

All the EIC awardees (i.e. EIC Accelerator, EIC Transition, EIC Pathfinder, and others) have access to BAS.

- Access to coaches, mentors, expertise and training
- Access to global partners (leading corporates, investors, procurers, distributors, clients)
- Access to innovation ecosystem and peers

#### Fast Track scheme to apply for the EIC Accelerator



The 'Fast Track' scheme provides for a specific treatment of **proposals that result from existing Horizon Europe or Horizon 2020 projects**. Applicants do not apply directly to the EIC Accelerator call, but a project review is carried out by the responsible funding body to assess the innovation or market deployment potential of an existing project, to decide whether the project is suitable for support under the EIC Accelerator.

#### Pilot Plug-in scheme to apply for the EIC Accelerator



Its process is equivalent to the Fast Track scheme's, except that it applies to **proposals that result from existing national or regional programmes**. Under the 'Plug-in' scheme, a project review is carried out to assess the innovation or market deployment potential of an existing project at national or regional level, to decide whether the project is suitable for support under the EIC Accelerator







TRANSITION

#### EIC Booster grants for EIC Pathfinder and EIC Transition awardees

The Awardees of EIC Pathfinder projects and of EIC Transition projects are eligible to receive EIC Booster grants with fixed amounts of up to **EUR 50 000**, as specified in the relevant call sections of this Work Programme.

These EIC Booster grants will fund either complementary activities to explore potential pathways to commercialisation or portfolio activities.

- definition of a commercialisation process;
- market and competitiveness analysis;
- technology assessment;
- verification of innovation potential;
- consolidation of IP rights;
- business case development;
- exploratory / preparatory work for creating start-ups or spin-offs.

**The European Innovation Procurement Awards** 

The European Social Innovation Competition

The European Capital of Innovation Awards (iCapital)

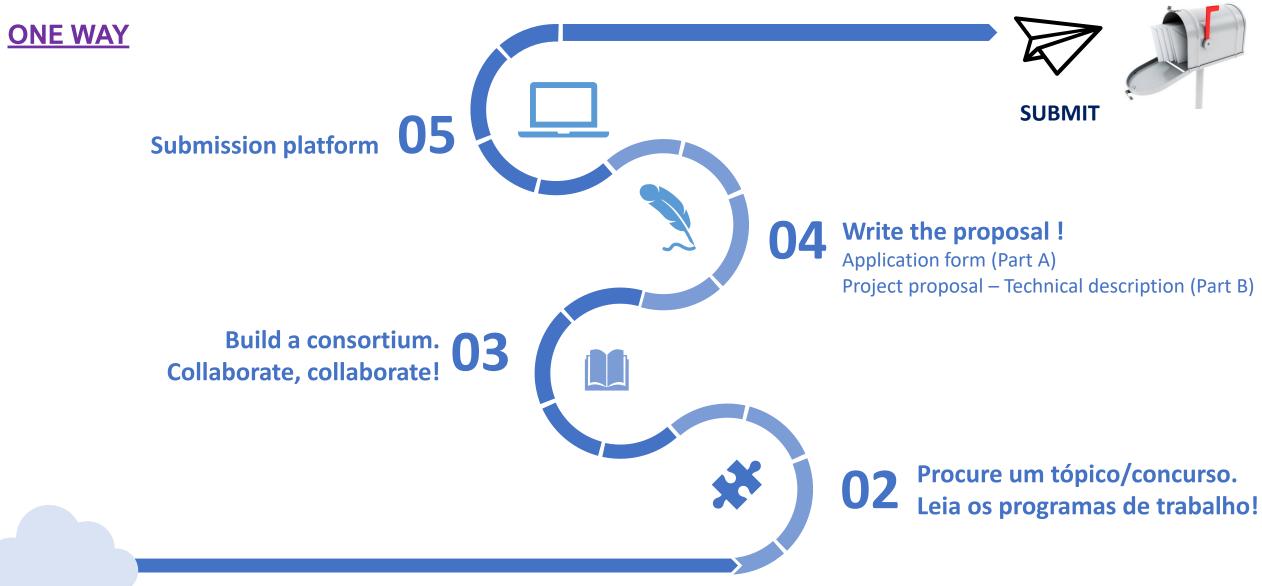
**EIC Prizes** 

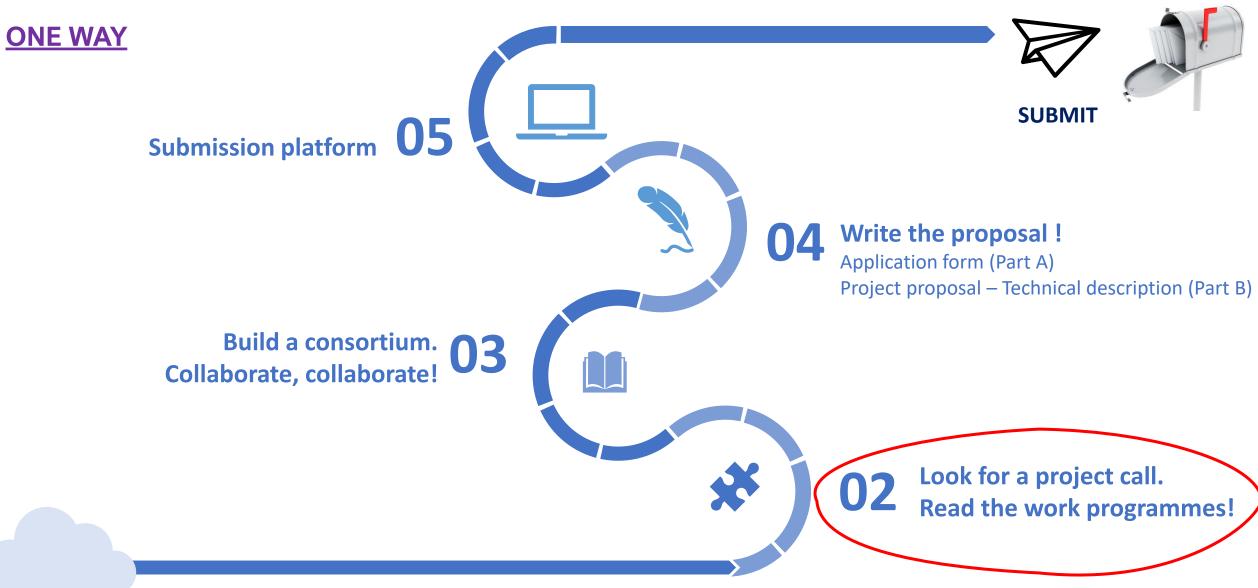
Know more at: <a href="https://eic.ec.europa.eu/index\_en">https://eic.ec.europa.eu/index\_en</a>



# SUBMISSION OF PROPOSALS

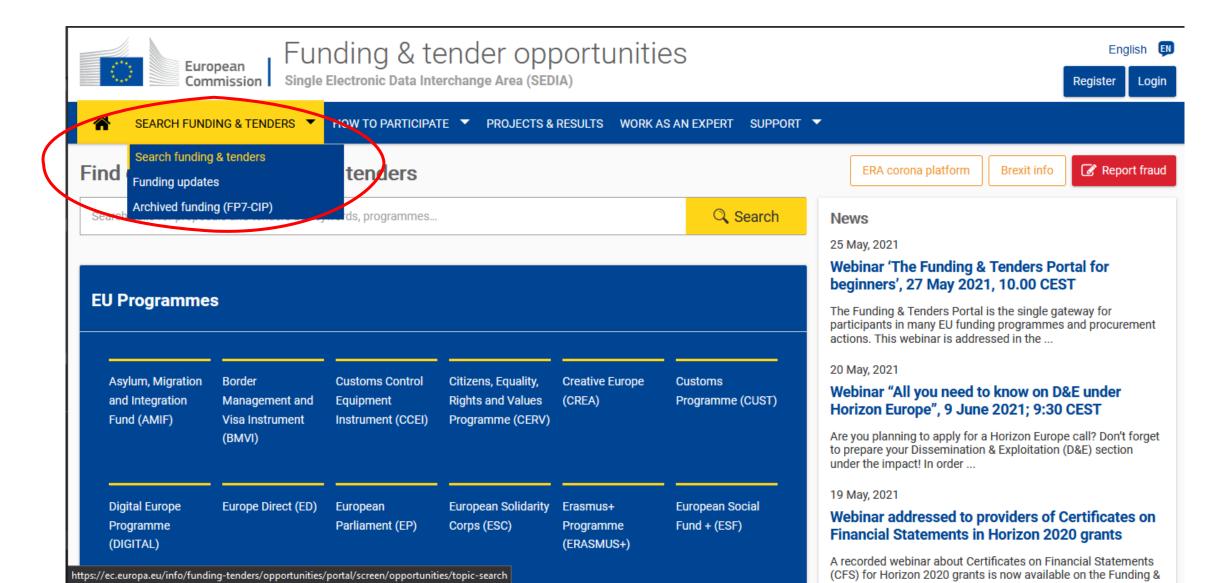






#### Funding and tenders homepage

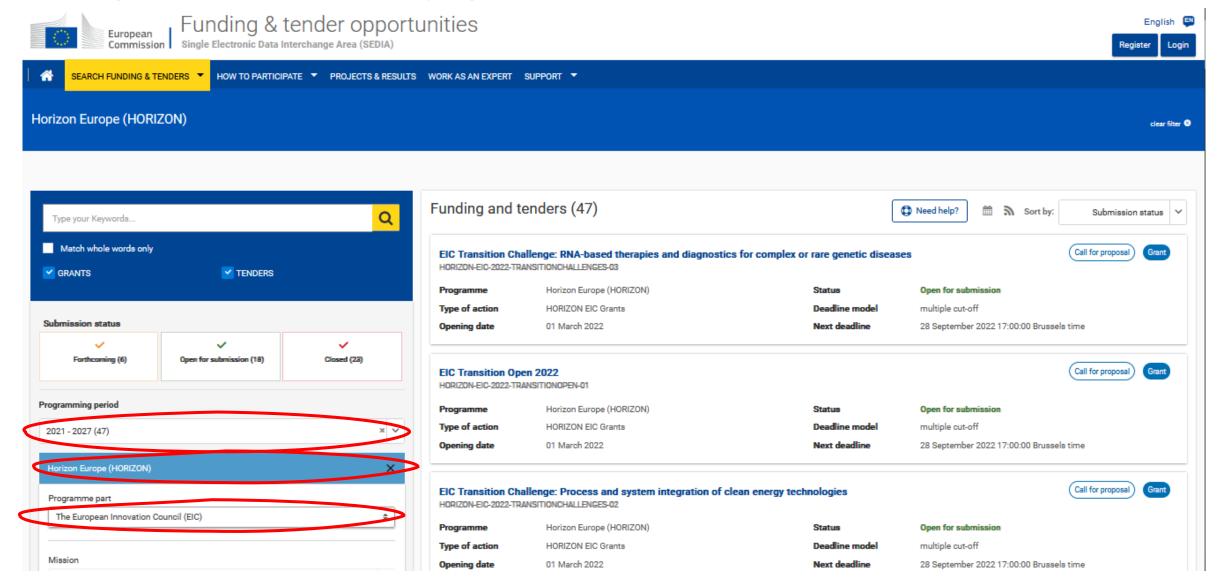
https://ec.europa.eu/info/fundingtenders/opportunities/portal/screen/home

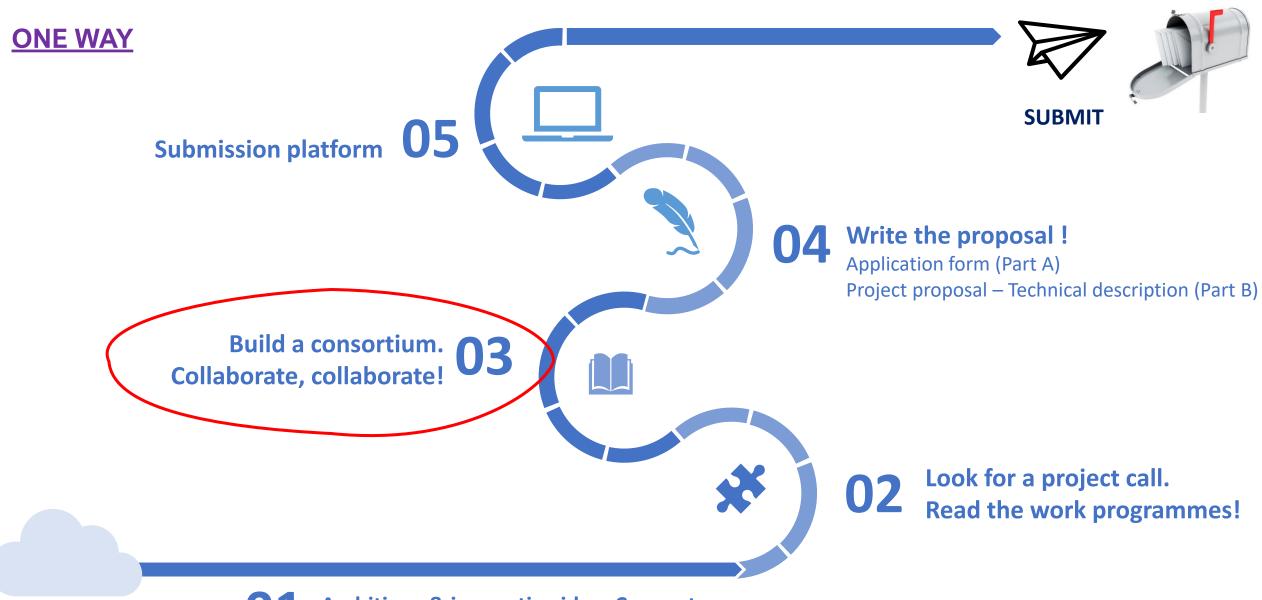


#### **OR** go trough the EIC webpage:

https://eic.ec.europa.eu/eic-funding-opportunities en

## Funding and tenders homepage





## **How to find project partners**

Be proactive!
Engage communication!
Look on your network! And outside!



- Known partners

- Clients



**Partnering** 

Annual Information
 Day & Brokerage
 event in Brussels

- Brokerage events organised by the Enterprise Europe Network



ongoing

and

of

**Databases** 

- <u>CORDIS project</u> database

- EIC hub

- <u>Eco-innovation</u> projects

LIFE projects

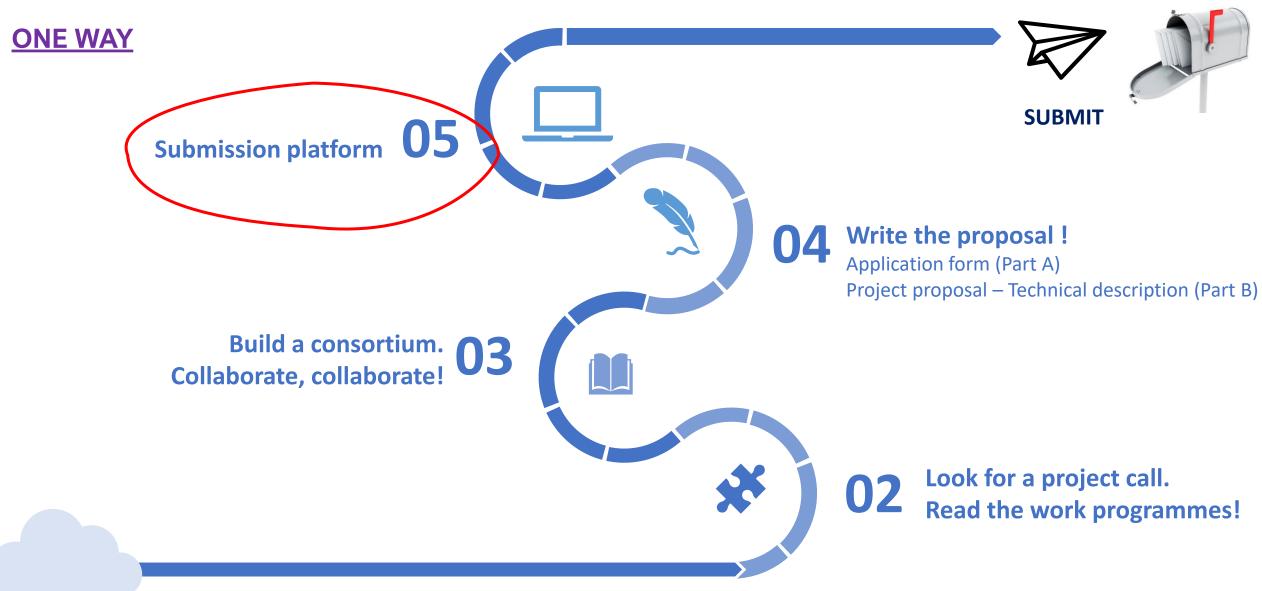


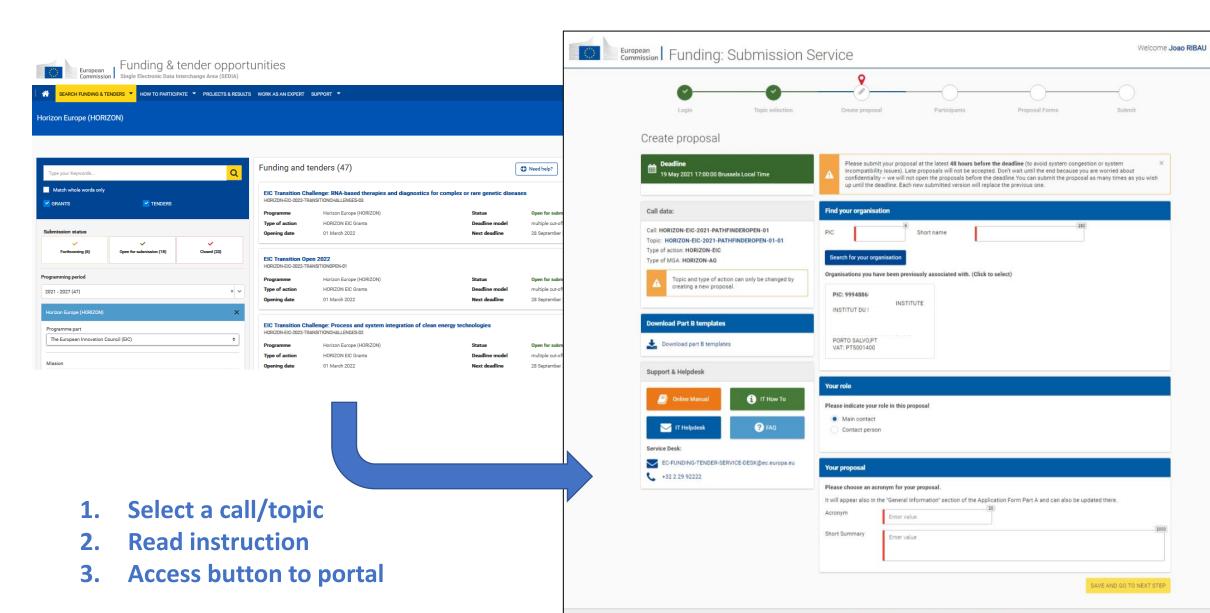
Partner

- <u>CORDIS partner</u> <u>search platform</u>

Enterprise Europe
 Network cooperation
 opportunities
 database

# Own network





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 EIC -Accelerator



**SOFIA BRAVO** 

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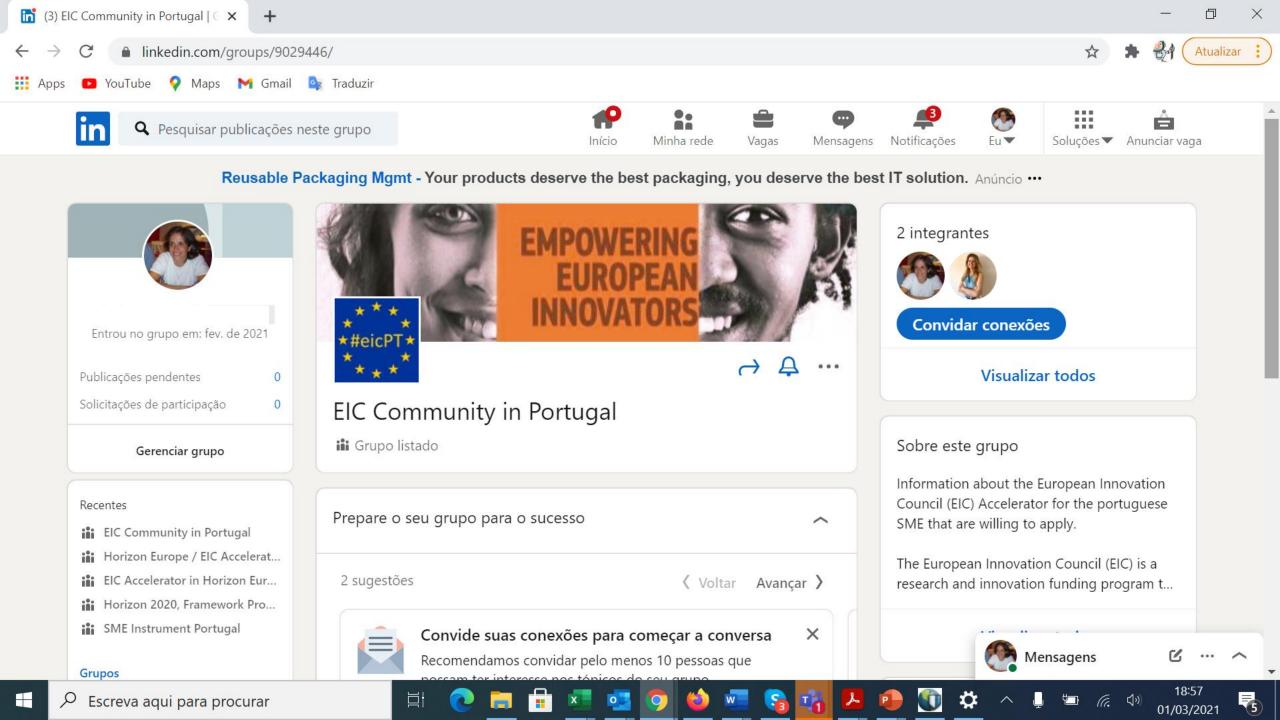
- EIT EIC
- Legal and financial issues











# Portugal in Europe Research and Innovation Network

EUROPEAN INNOVATION COUNCIL (EIC)













