

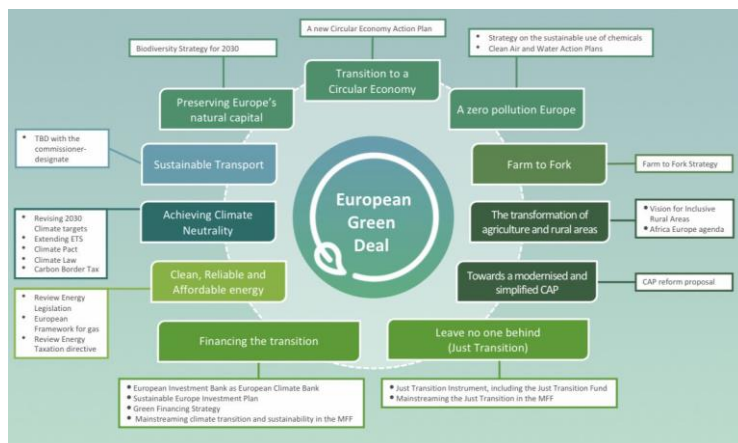
PERIN

Portugal in Europe
Research and Innovation Network

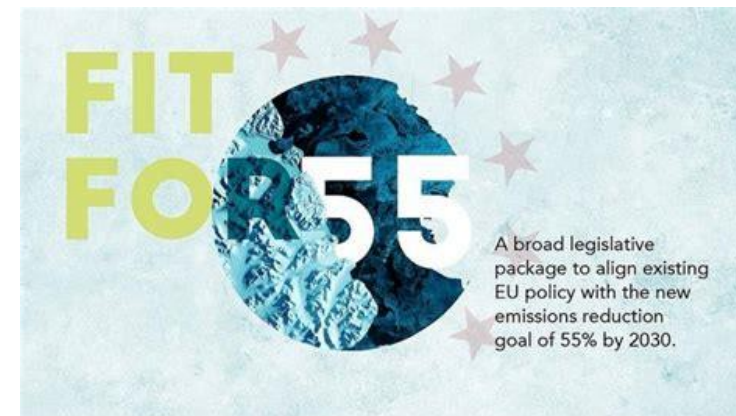


Mobilidade @ Horizonte Europa

7 dez 2021



European Green Deal



Fit for 55 package



2380

2392

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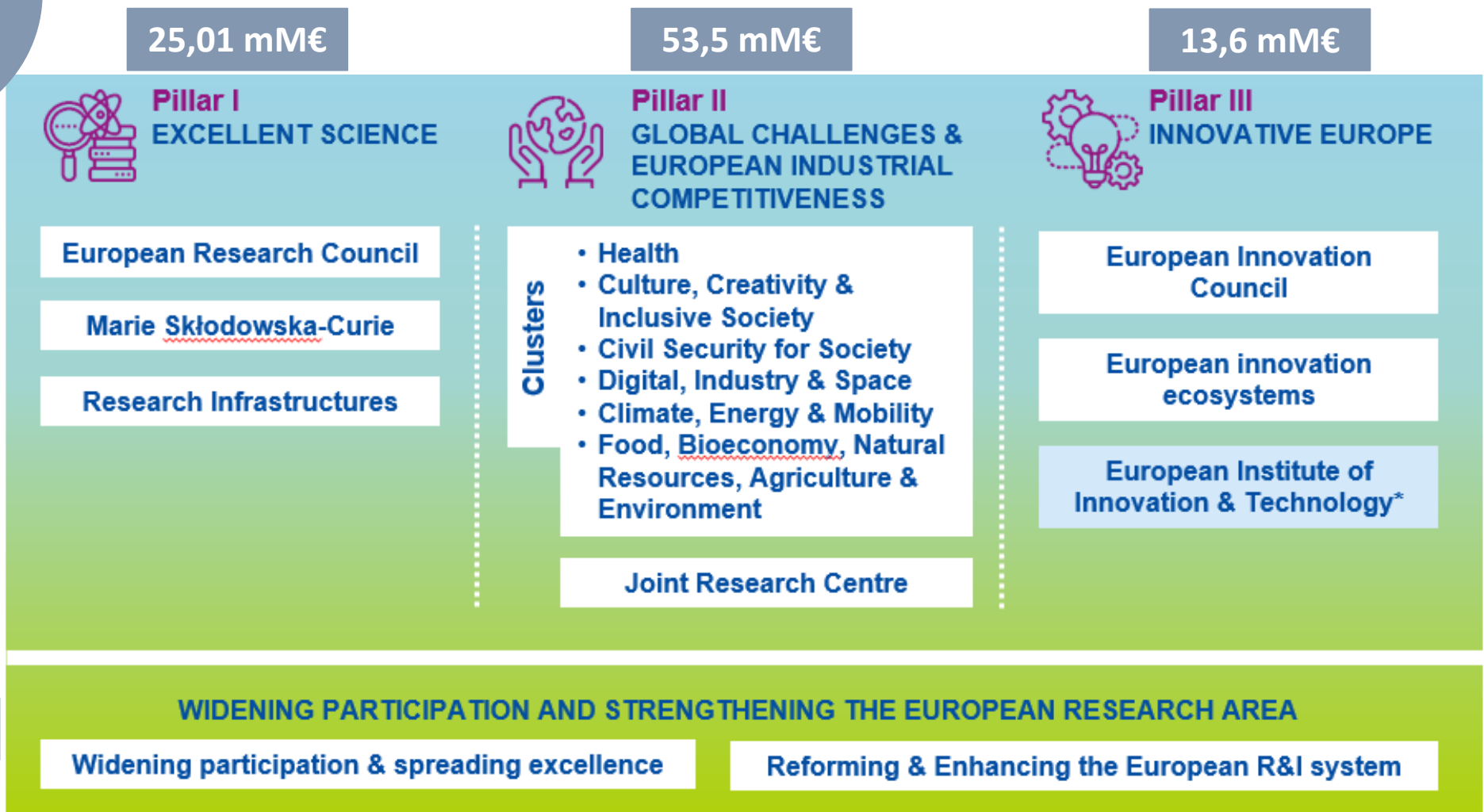
2384

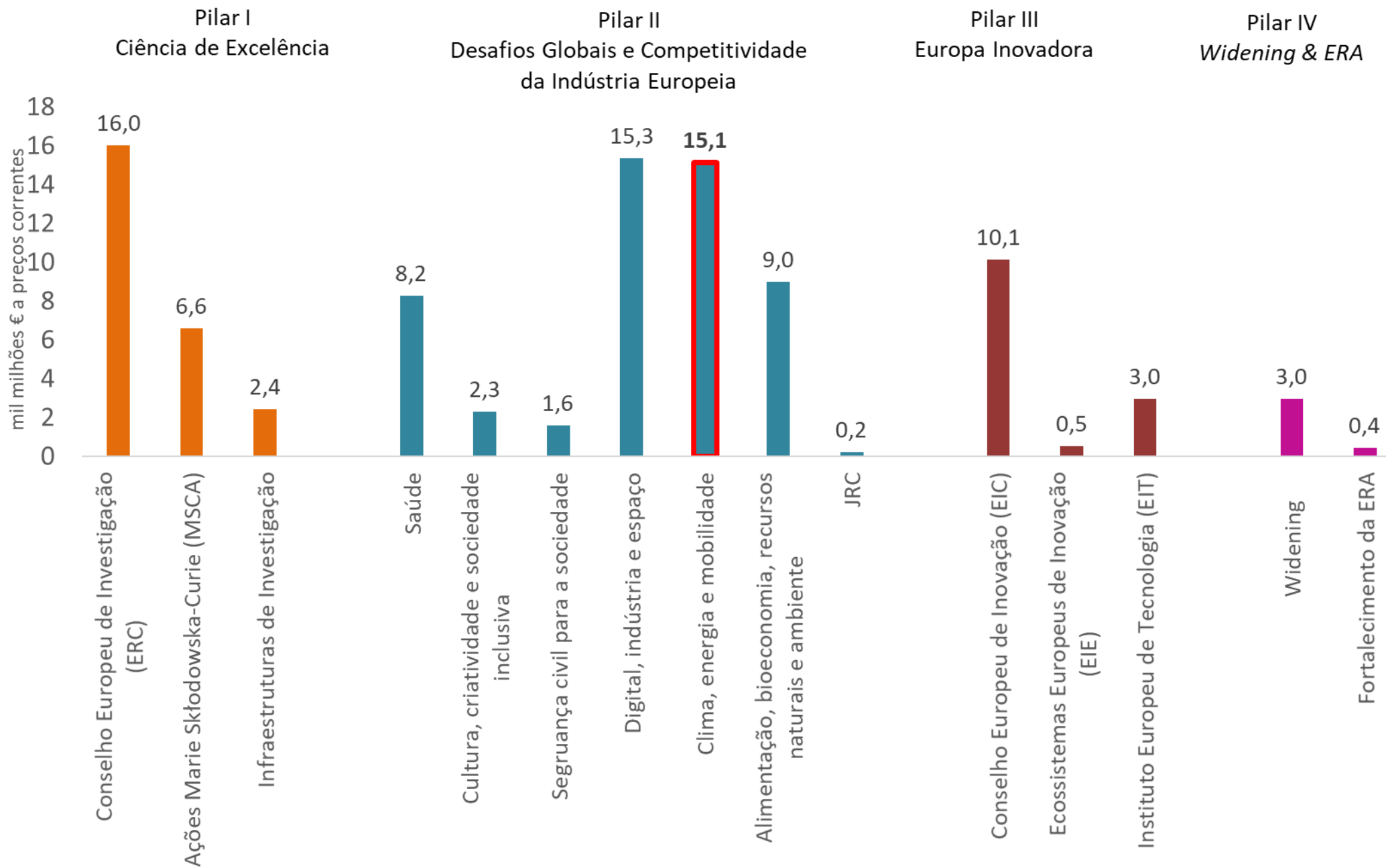
2396

2421

HE
95,5 mM€

Horizon Europe (2021-2027)





2022 Work Programmes – Mobility R&I in Pillar II

Mobility in Cluster 5:



- **Destination 2: Cross-sectorial solutions**
 - Batteries

- **Destination 5: Clean and competitive solutions for all transport modes**
 - Aviation
 - Waterborne transport (ZEWT)
 - Zero-emission road transport (2ZERO)
 - Impact of transport on environment and human health

- **Destination 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods**
 - Connected, Cooperative and Automated Mobility (CCAM)
 - Multimodal and sustainable transport systems for passengers and goods
 - Safety and resilience

- **Institutionalized partnerships (Art 187):**
 - [Clean Aviation](#)
 - [Clean Hydrogen for Europe](#)
 - [Transforming Europe's rail system](#)
 - [Integrated Air Traffic Management \(ATM\)](#)

Mobility in Cluster 5

Destination 2: Cross-sectorial solutions

Batteries



Issues covered in topics 2021-2022

- Raw material processing; advanced Li-ion batteries; solid-state batteries; new and emerging battery technologies; manufacturing value chain; digitalization; second use; recycling, etc.

Implementation

- 2021: 7 topics (total budget: 160 M€)
- **2022: 10 topics** (total budget: 133 M€)

Mobility in Cluster 5

Destination 5: Clean and competitive solutions for all transport modes

Aviation



Issues covered in topics 2021-2022

- Greenhouse emissions reduction technologies; digital technologies for new aviation business models; silent and ultra-low local air pollution aircraft, etc.

Implementation

- 2021: 2 topics (total budget: 54 M€)
- **2022: 3 topics** (total budget: 45 M€)



Waterborne transport (ZEWT)

Issues covered in topics 2021-2022

- Ammonia and hydrogen fuels; high power fuel cells; energy saving solutions; green ship operations; large battery electric power; renewable energy for shipping, etc..

Implementation

- 2021: 8 topics (total budget: 93,5 M€)
- **2022: 6 topics** (total budget: 96 M€)

Mobility in Cluster 5

Destination 5: Clean and competitive solutions for all transport modes

Zero-emission road transport (2ZERO)



Issues covered in topics 2021-2022

- Nextgen EV components; smart EV charging; sustainable circularity; zero-emission systems for heavy duty vehicles (BEV and FCEV); full electric urban and peri-urban Bus Rapid Transit systems, etc.

Implementation

- 2021: 4 topics (total budget: 94 M€)
- **2022: 4 topics** (total budget: 105 M€)



Impact of transport on environment and human health

Issues covered in topics 2021-2022

- Retrofit solutions for tailpipe and brake polluting emissions; assessment of noise and particle from real driving conditions; smog, etc.

Implementation

- 2021: 2 topics (total budget: 15 M€)
- **2022: 1 topic** (total budget: 7 M€)

Mobility in Cluster 5

Destination 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods

Connected, Cooperative and Automated Mobility (CCAM)



Issues covered in topics 2021-2022

- Decision-making technologies; connectivity and cooperation; cyber security; socio-economic and environmental impacts of autonomous vehicles; human behavioural models; demonstration pilots, etc.

Implementation

- 2021: 6 topics (total budget: 74 M€)
- **2022: 5 topics** (total budget: 88 M€)



Multimodal and sustainable transport systems for passengers and goods

Issues covered in topics 2021-2022

- Multimodal freight transport; delivery methods; resilient transport infrastructure; urban logistics; shared mobility services; construction, maintenance and and decommission of infrastructures, etc.

Implementation

- 2021: 3 topics (total budget: 53 M€)
- **2022: 7 topics** (total budget: 91 M€)

Mobility in Cluster 5

Destination 6: Safe, Resilient Transport and Smart Mobility services for passengers and goods

Safety and resilience



Issues covered in topics 2021-2022

- Safe lightweight vehicles; road safety in Africa; infection on large passenger ships; human factors in aviation; safer urban environment for vulnerable road users; containership fires, etc.

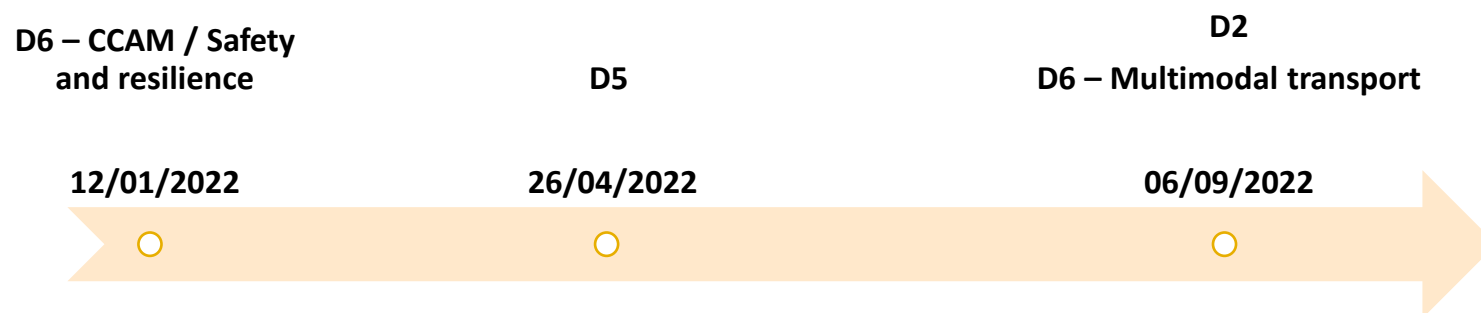
Implementation

- 2021: 4 topics (total budget: 40 M€)
- **2022: 3 topics** (total budget: 34 M€)

Mobility in Cluster 5

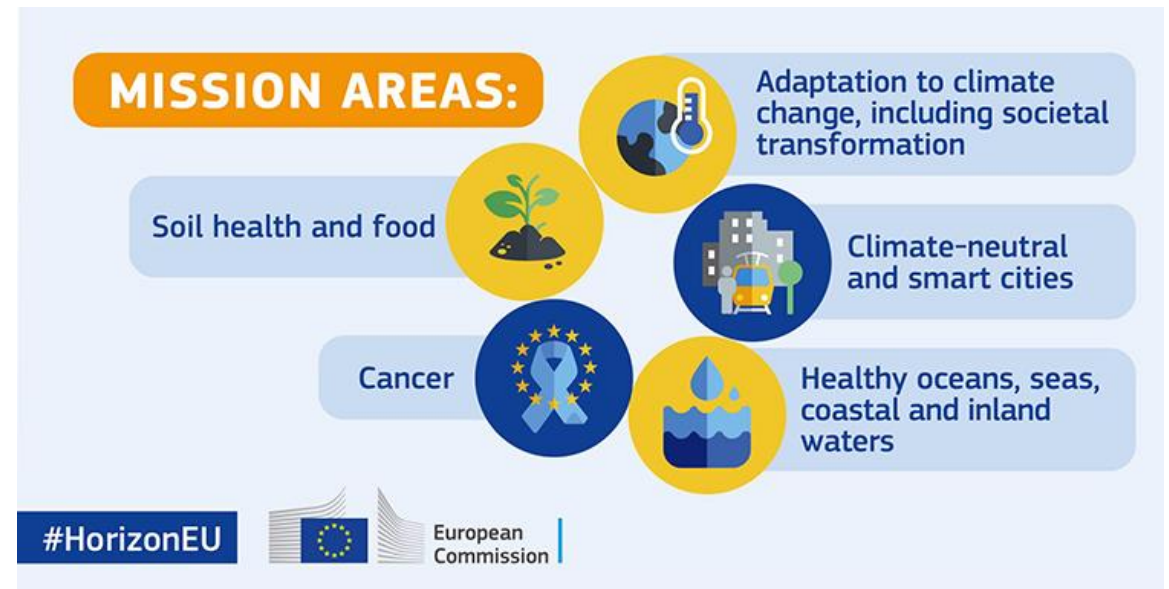
Deadlines for 2022 topics

Cluster 5 Clima, Energia e
Mobilidade



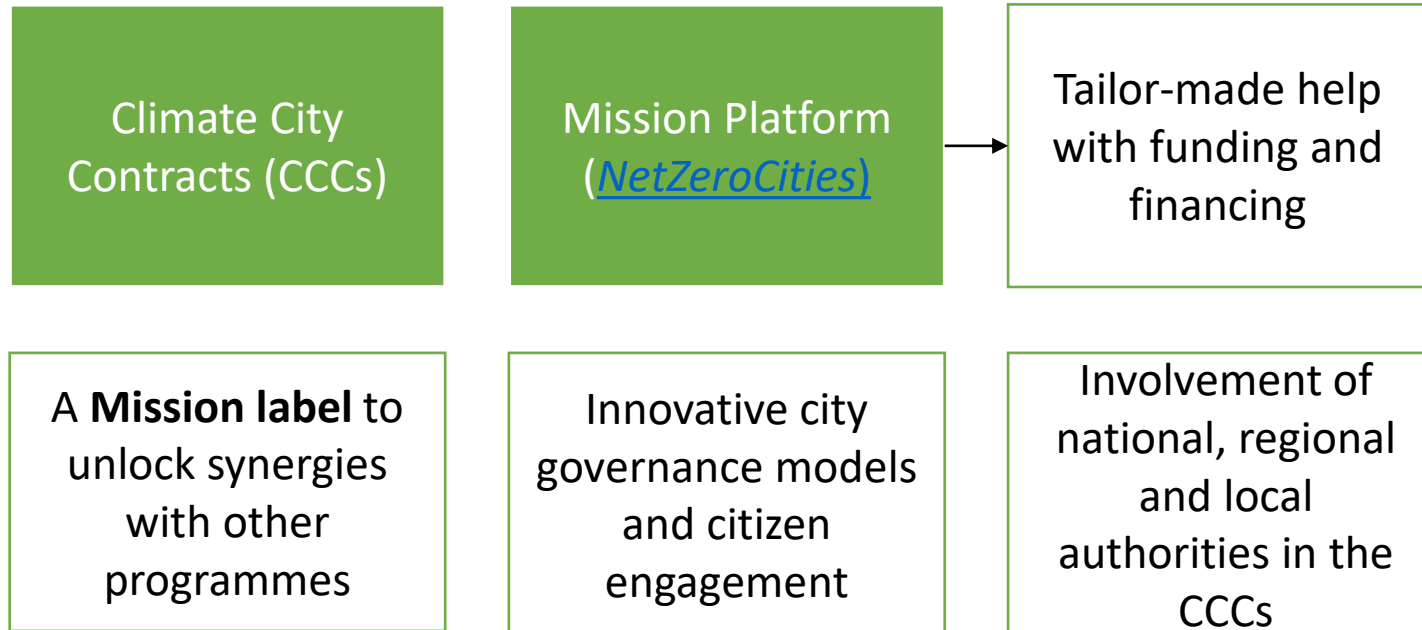
[Tópicos de I&I a concurso em 2022 nos Pilares II e III do Horizonte Europa](#)

EU Missions



Climate-neutral & Smart Cities Mission

Deliver at least **100** climate-neutral and smart EU cities by 2030



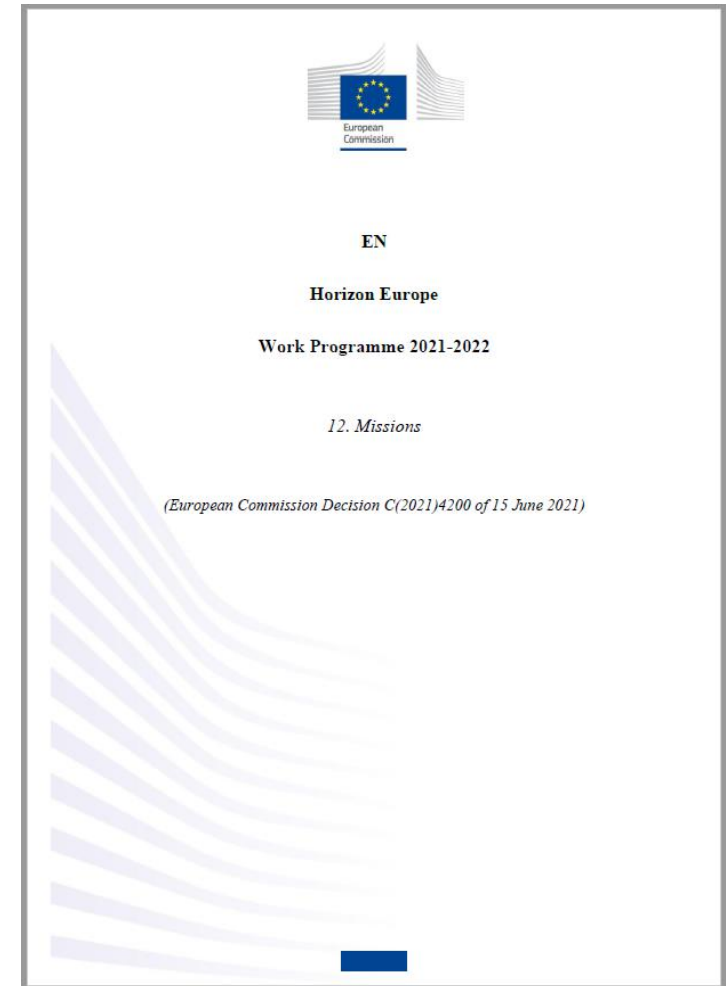
Climate-neutral & Smart Cities Mission

- Oct 2021: [InfoKit for Cities](#) to help cities prepare for the call
- **Nov 2021:** Launch of [Call for Expression of Interest](#)
(deadline: **31/01/2022**)
- Mar 2022: Selection of participating cities
- Mid 2022: Mission Platform works with first cities to develop Climate City Contracts



Missions' Work Programme

- **Jan 2022:** First calls (deadline April 2022)
- R&I projects that will support the Mission implementation
- **R&I highlights** → urban planning and design; innovation potential of public transport; Positive Clean Energy Districts; urban climate neutrality; urban mobility





Lessons learned/Tips

- **SUBMIT** a (next to) final version of your proposal **SEVERAL DAYS BEFORE THE DEADLINE!**
- **AVOID** editing (your part of) the proposal with **MORE THAN ONE USER** from your organisation at the same time!
- **DO NOT** edit the proposal in **MORE THAN ONE BROWSER TAB/WINDOW** at the same time!
- **SAVE** your changes **FREQUENTLY!** No data is saved until you click on **SAVE**.
- **DO NOT USE** file names containing **SPECIAL CHARACTERS** for files you upload. Only alphanumerical characters: A-Z, a-z, 0-9, _ (underscore), - (dash), . (dot) or space are allowed.
- **DO NOT ENCRYPT** or **DIGITALLY SIGN** your PDF files.
- **DOUBLE-CHECK AFTER UPLOAD** of files whether they can be opened without problems.
- **USE “VALIDATE”** button before submitting.



Where are the opportunities

**Pillar 1
EXCELLENT SCIENCE**

- European Research Council
- Marie Skłodowska-Curie Actions
- Research Infrastructures

**Pillar 2
GLOBAL CHALLENGES & 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

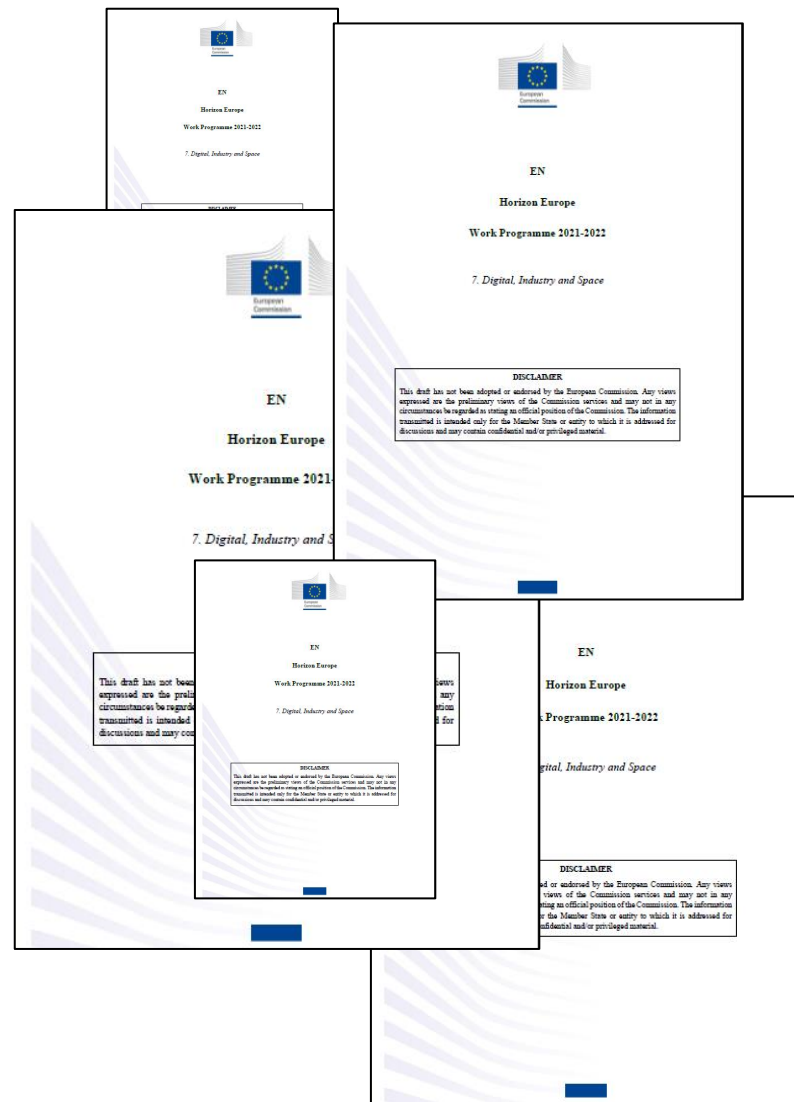
**Pillar 3
INNOVATIVE EUROPE**

- 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





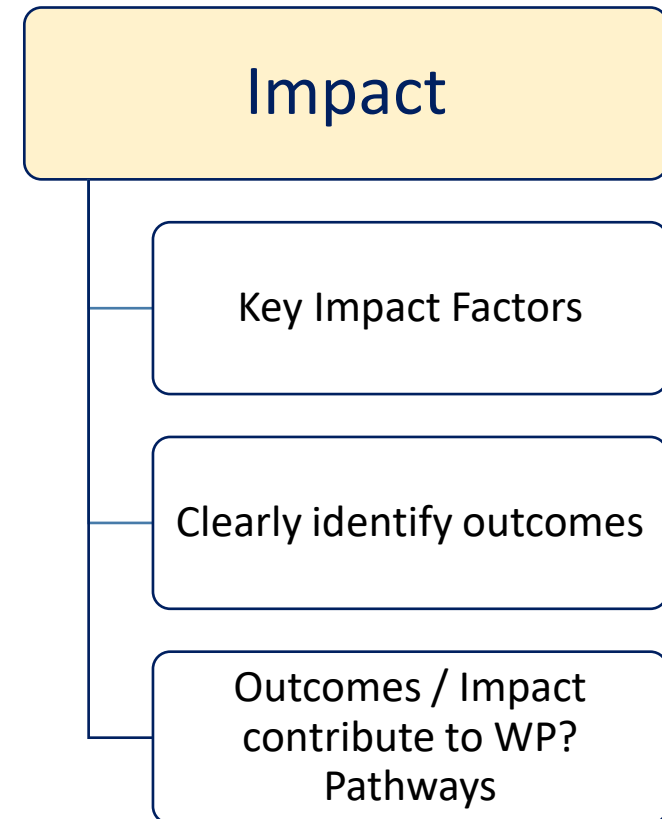
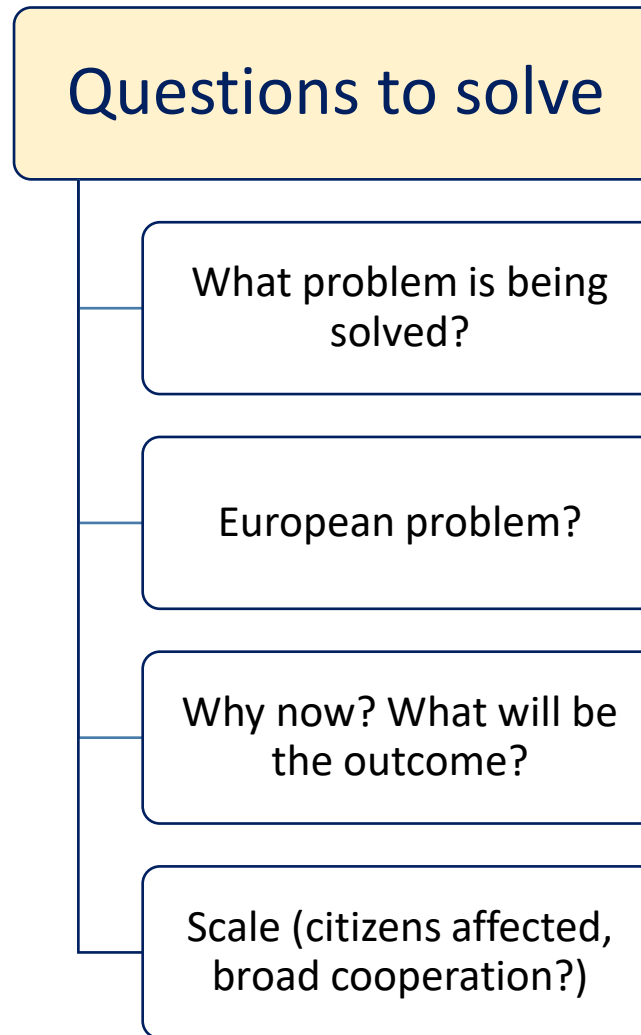
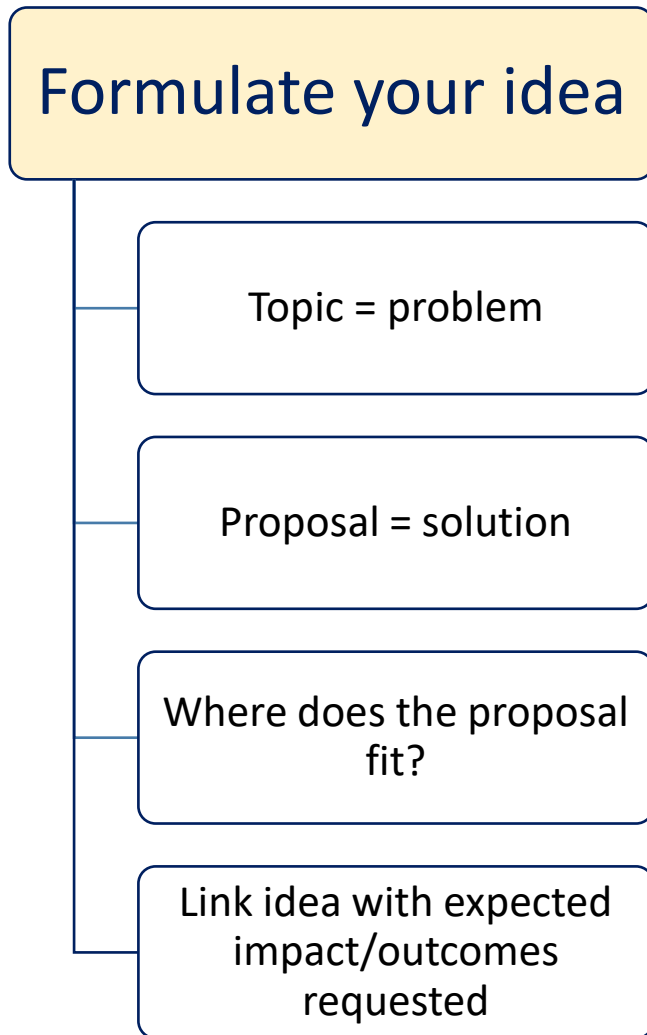
**Easiest way to
beat 50% of the
other proposers...**



Read the Work Programme!

(and follow it)





Evaluator

Call their attention – 1st
paragraph

Set out the outcome –
why you?

Simple & plain language
= NO jargon!

Clear reference within
the document



- ✓ Keep yourself up to date about calls and requirements
 - Register in [ANI's mailing list](#) and [GNAD](#) (i.e. newsletters, access to preliminar working documents)
 - [Horizon Europe NCP Portal](#)
 - Check the [Funding & Tenders Portal](#)
- ✓ [Register as a Commission's expert](#) (evaluator)
- ✓ Enlarge your network: conferences, participate in networking projects & initiatives (e.g. COST Actions), matchmaking/B2B/pitching/brokerage events & info days



Grupo nacional de apoio à discussão do Horizonte Europa

Manifestação de Interesse - Identifique a(s) área(s) do Horizonte Europa em que tem interesse e na(s) qual(is) gostaria de contribuir para a discussão.

Mai 2021 Newsletter #3



NOTÍCIAS

Publicação dos concursos dos Cluster 2 do Horizonte Europa
O lançamento dos concursos sofreu novo atraso e presentemente espera-se que a publicação seja realizada no final do mês de Maio. Mais informação brevemente.

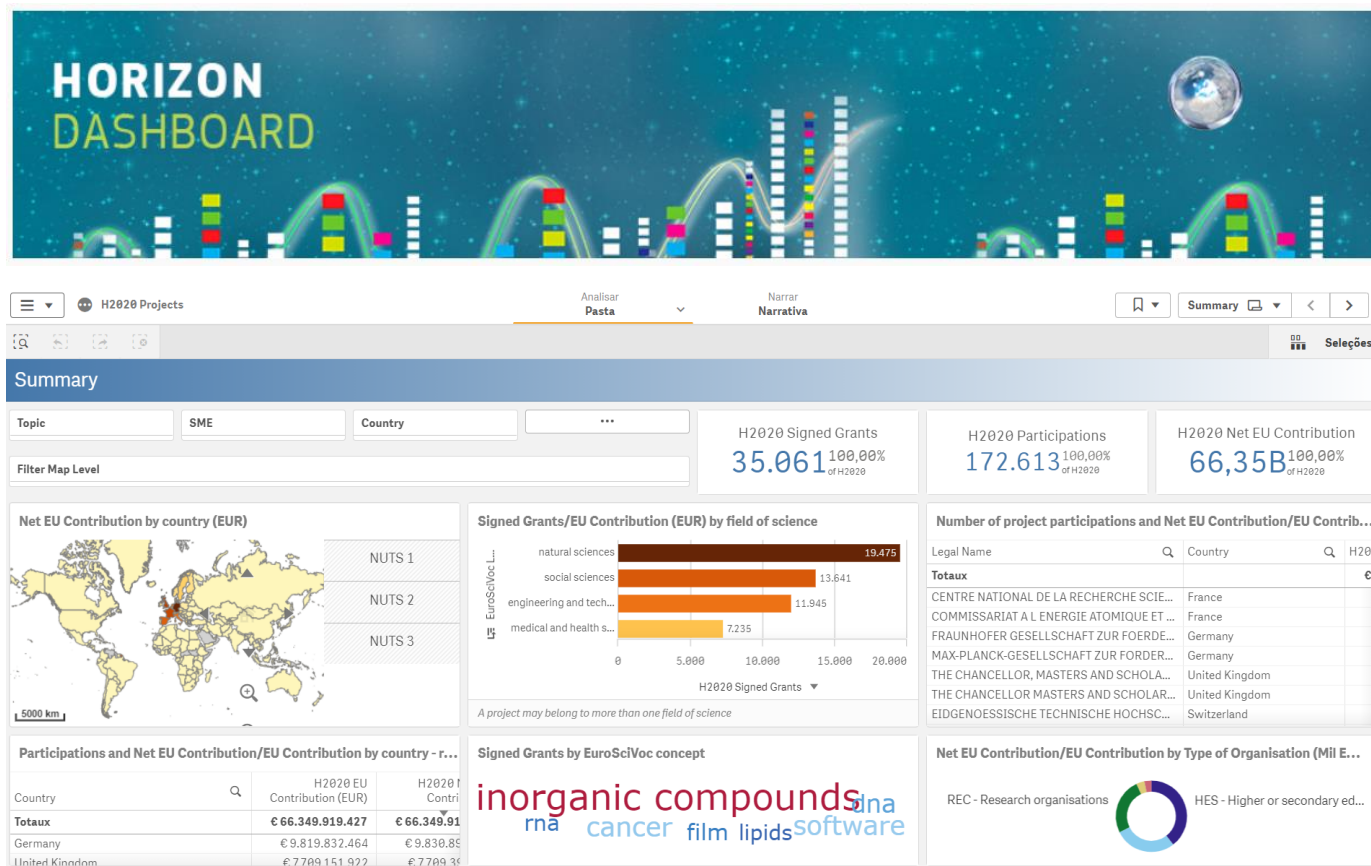


✓ Look for partners and join consortia

- [Commission's Partner search](#)
- **Reach out to your network**
- Search for leaders & experts in fields of expertise different from yours and introduce yourself and your idea



✓ Benchmarking: search for funded projects, e.g. through [CORDIS](#)



CORDIS provides information on all EU-supported R&D activities, including programs (H2020, FP7 and older), projects, results, publications

[CORDIS | European Commission \(europa.eu\)](#)

[What is Horizon Dashboard and How To Use It? - Webinar](#)

- Webinar on [How to prepare a successful proposal in Horizon Europe](#)
- Webinar on [A successful proposal for Horizon Europe: Scientific-technical excellence is key, but don't forget the other aspects](#)
- [Webinar on Webinar Funding & Tenders Portal for dummies](#)
- Webinar on [Dissemination & Exploitation in Horizon Europe](#)
- Webinar on [Social Sciences and Humanities in Horizon Europe: diving into opportunities](#)
- [Horizon Europe InfoDays 2021](#)



Horizonte Europa @ ANI

Pilares II & III

Contactos



MAFALDA
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MARQUES



ANA
SUTCLIFFE



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DANTAS



CRISTIANA
LEANDRO



CRISTINA
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FCT Fundação
para a Ciência
e a Tecnologia



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INVESTIGAÇÃO
CLÍNICA
E INOVAÇÃO
BIOMÉDICA

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DGES
Direção-Geral do Ensino Superior

CIÊNCIA VIVA