

# PERIN

Portugal in Europe  
Research and Innovation Network



## Clima @ Horizonte Europa

25.11.2021

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



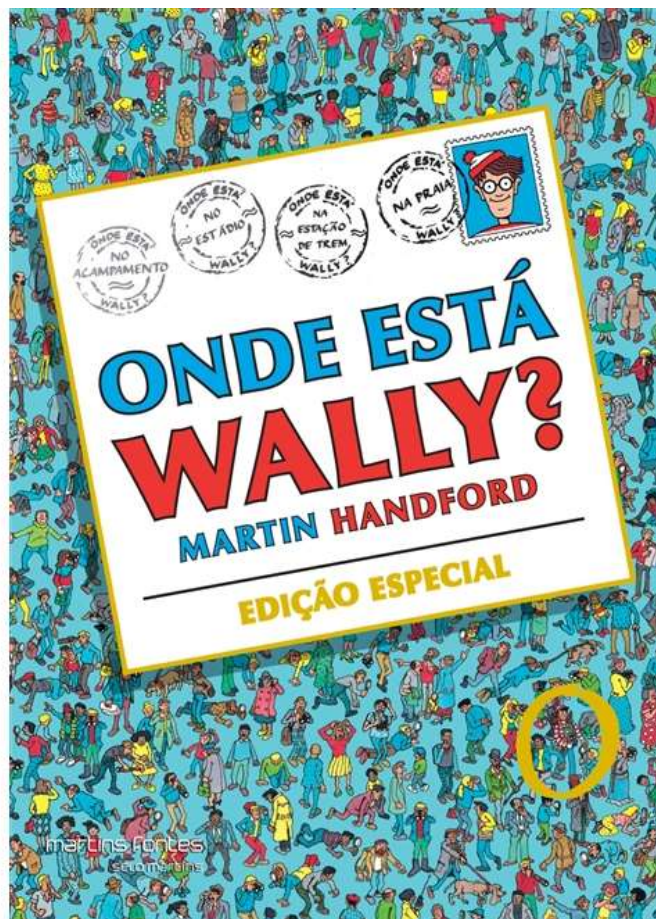
**PORTUGAL  
SPACE**

**AICIB** Agência de  
Inovação e  
Competitividade

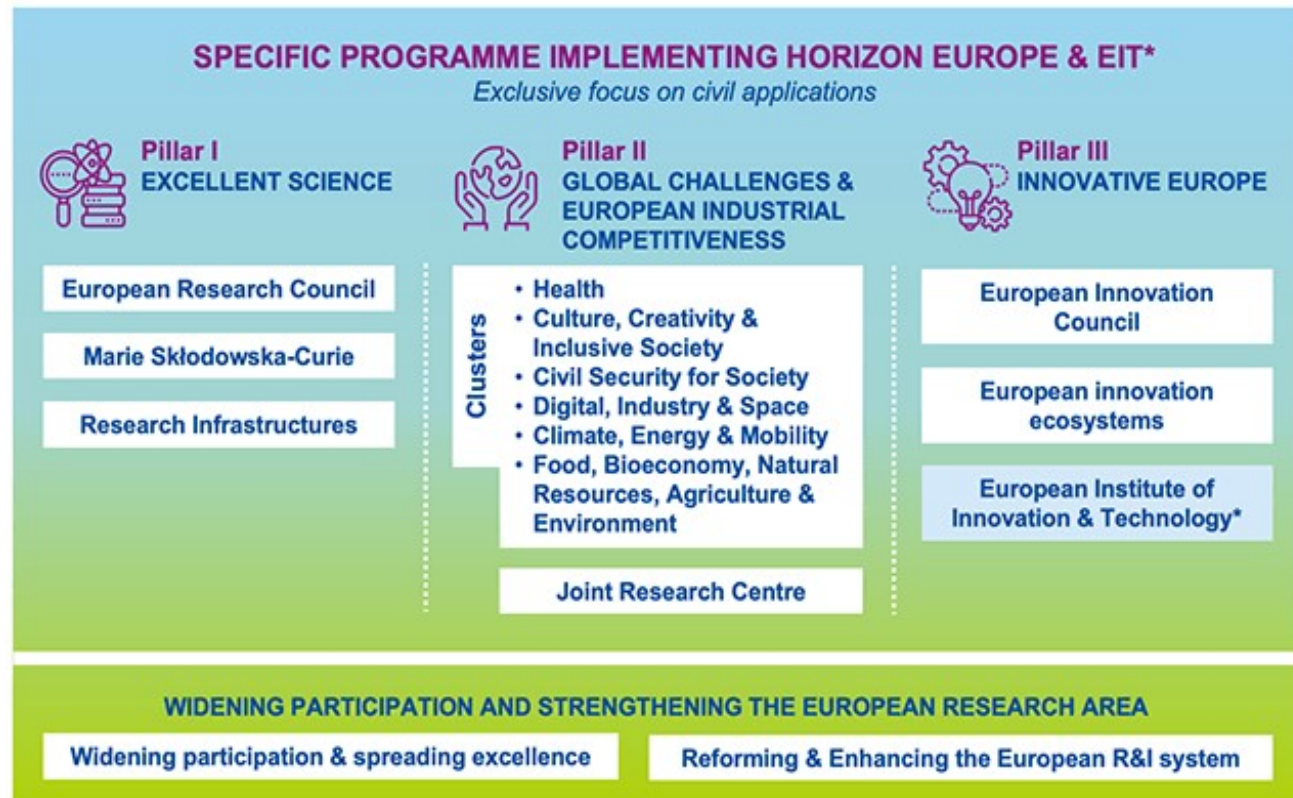
Erasmus+

**DGES**  
Direção-Geral do Ensino Superior

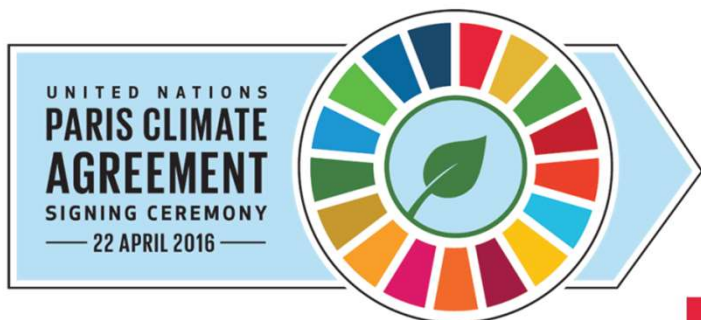
**CIÊNCIA VIVA**



## Clima no Horizonte (Europa)...



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



## SUSTAINABLE DEVELOPMENT GOALS







Horizonte Europa



PERIN

Portugal in Europe  
Research and Innovation Network



AGÊNCIA NACIONAL  
DE INOVAÇÃO



European Union

## European Climate Pact



## RESEARCH & INNOVATION TO DRIVE THE GREEN DEAL

#EUGreenDeal  
#ResearchImpactEU



## The European Climate Law

March 2020  
#EUGreenDeal



## Circular Economy Action Plan

The European  
Green Deal

March 2020  
#EUGreenDeal



## Putting the Blue into the Green

Sustainable Blue Economy

17 May 2021  
#EUGreenDeal  
#BeGreenGoBlue

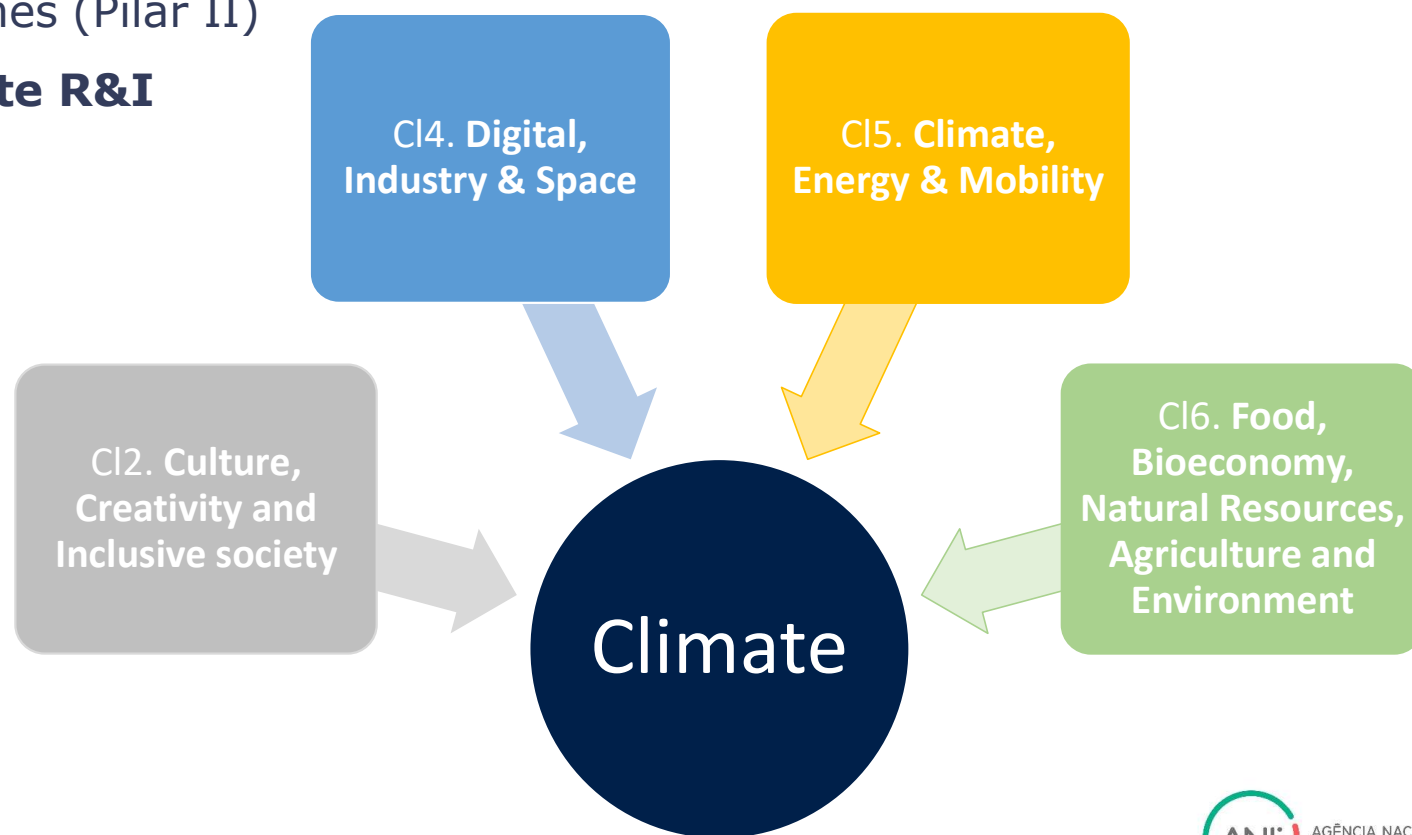
## Pillar II: Global challenges & European industrial competitiveness = +50% budget



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## 2022 Work Programmes (Pillar II)

> **50 topics #Climate R&I**

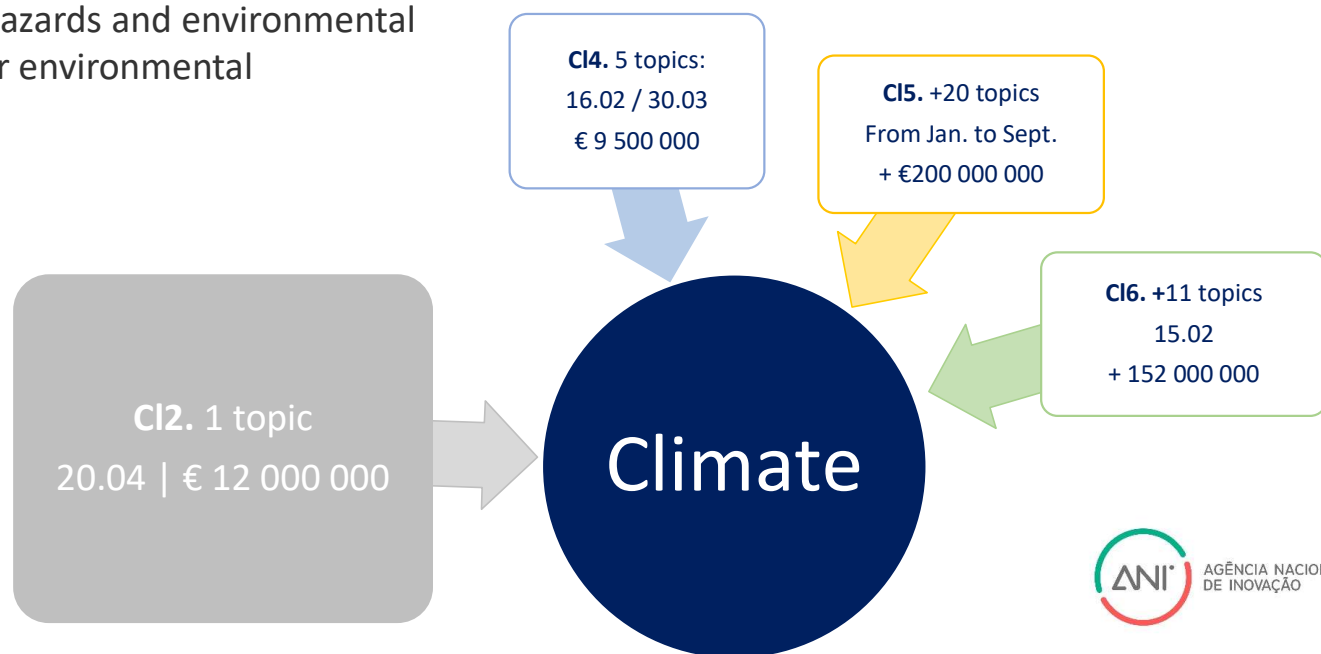


## Cluster 2 – Culture, Creativity and Inclusive society

### Effects of climate change and natural hazards on cultural heritage and remediation

Explore innovative and sustainable ways to protect monuments, historical buildings, archaeological sites and cultural landscapes from climate change effects<sup>[1]</sup>, natural hazards and environmental pollution, taking into consideration their environmental footprint<sup>[2]</sup> as well as users' comfort.

NCPs & Delegates  
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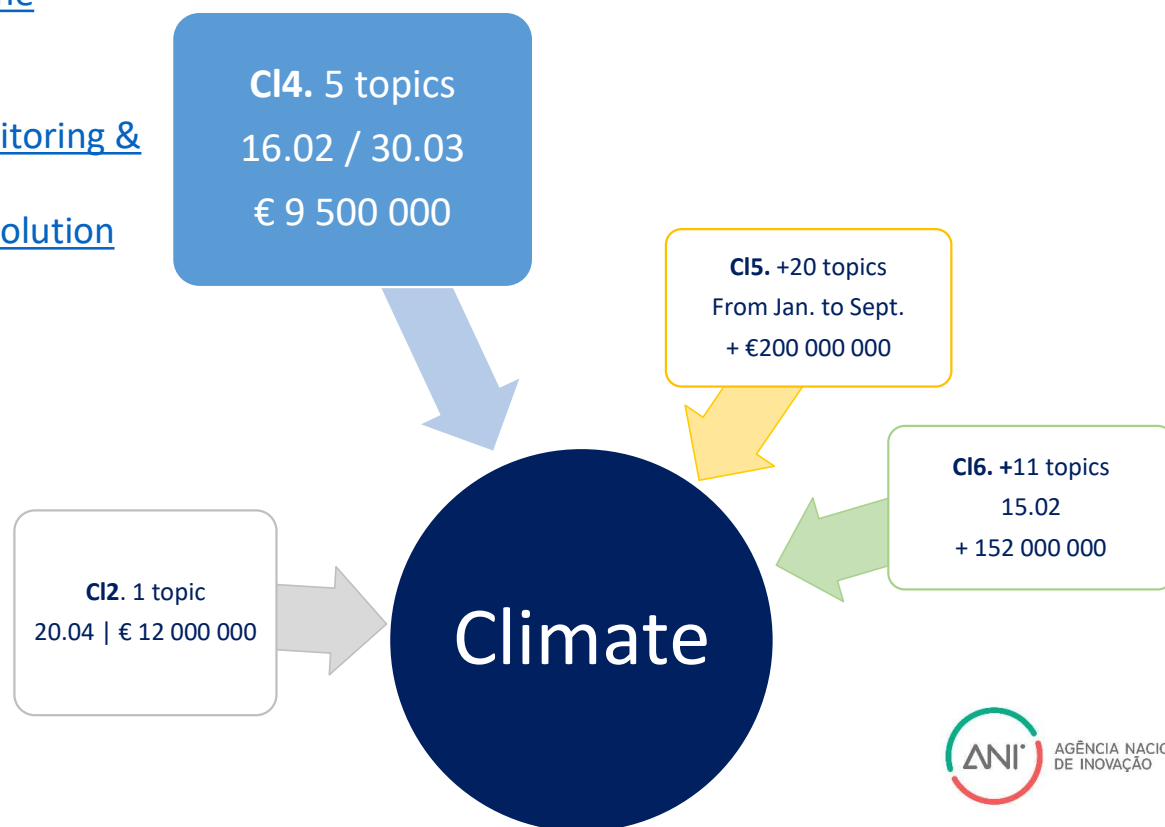


## Cluster 4 – Digital, Industry & Space

- [EGNSS and Copernicus applications fostering the European Green deal](#)
- [Copernicus Climate Change Service evolution](#)
- [Copernicus Anthropogenic CO<sub>2</sub> Emissions Monitoring & Verification Support \(MVS\) capacity](#)
- [Copernicus Atmosphere Monitoring Service evolution](#)
- [Space Weather](#)

### NCPs & Delegates

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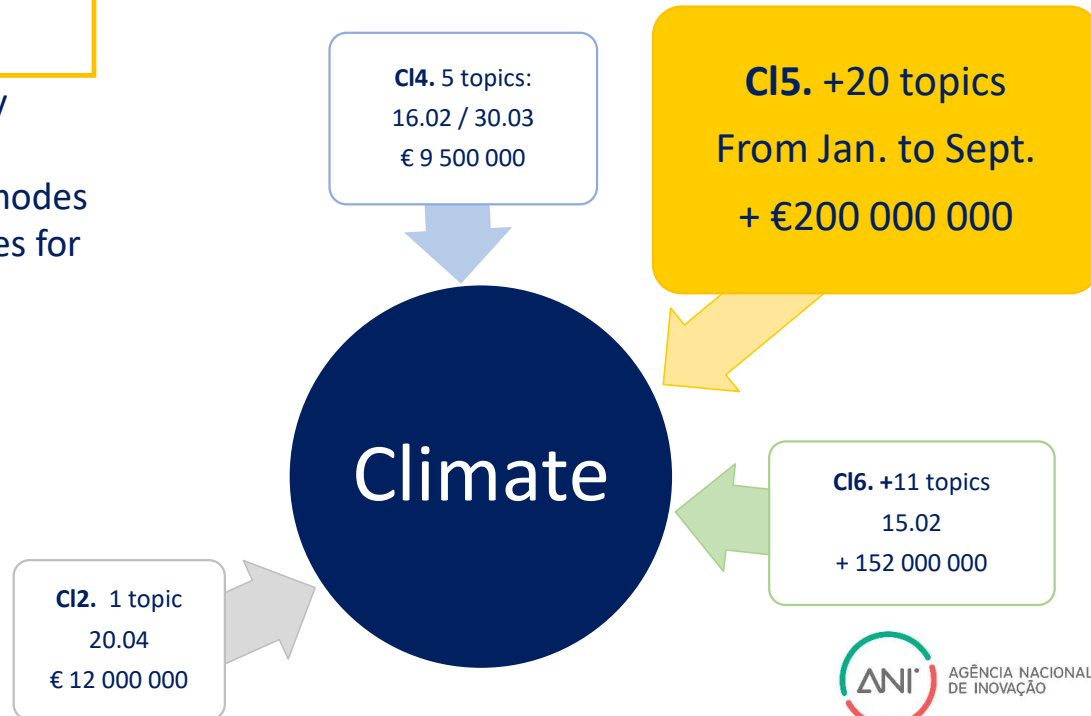
## Cluster 5 – Climate, Energy and Mobility

### Destinations

- 1. Climate sciences and responses for the transformation towards climate neutrality**
- 2. Cross-sectoral solutions for the climate transition**
3. Sustainable, secure and competitive energy supply
4. Efficient, sustainable and inclusive energy use
5. Clean and competitive solutions for all transport modes
6. Safe Resilient Transport and Smart Mobility services for passengers and goods

### NCPs & Delegates

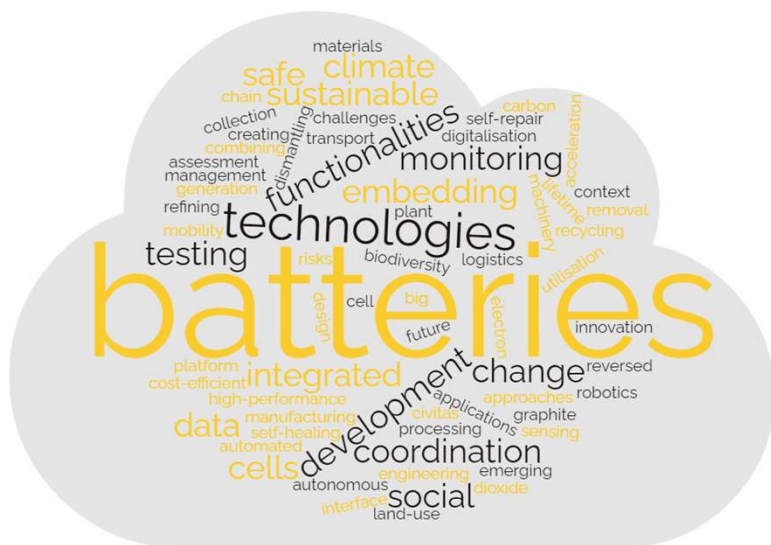
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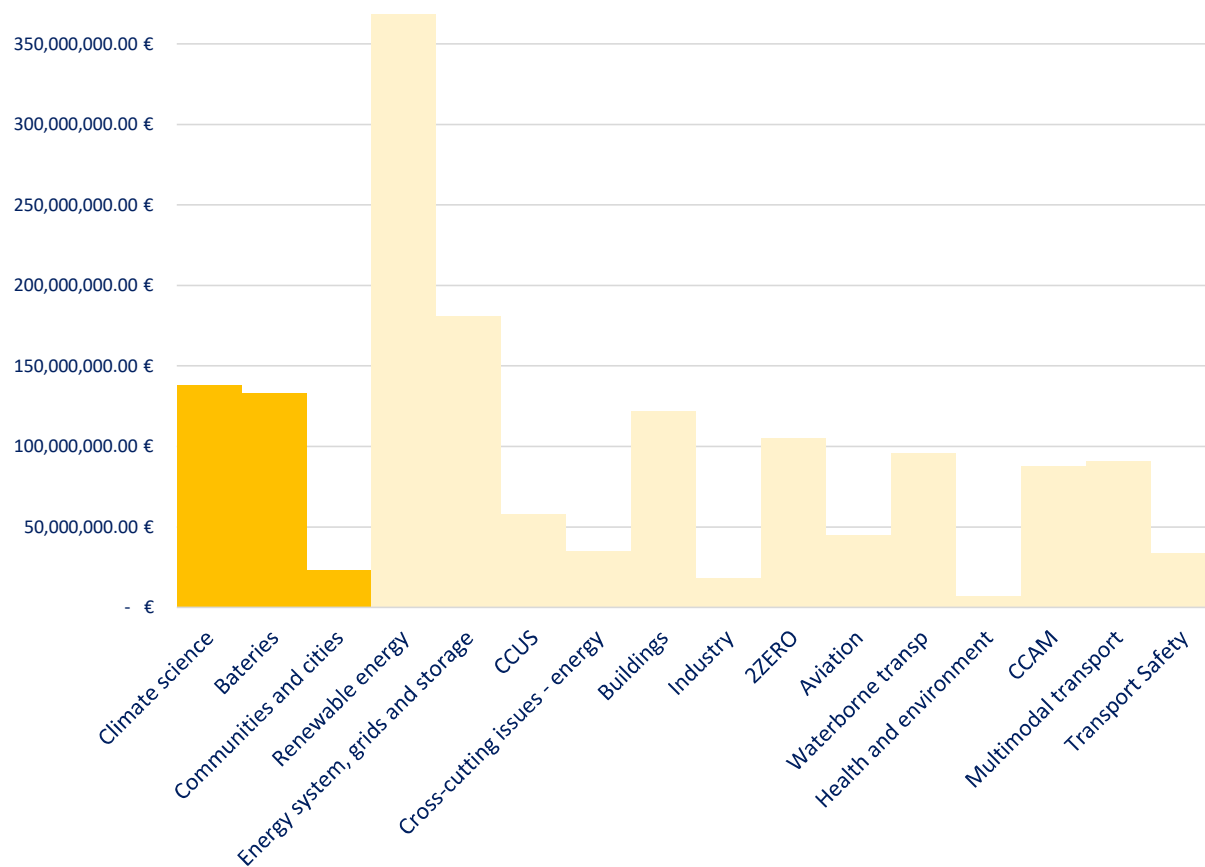
## Cluster 5 – Climate, Energy and Mobility

### Destinations

1. Climate sciences and responses for the transformation towards climate neutrality
2. Cross-sectoral solutions for the climate transition



Cluster 5 2022 budget



## Cluster 5 – Climate, Energy and Mobility

### Destinations

1. Climate sciences and responses for the transformation towards climate neutrality
2. Cross-sectoral solutions for the climate transition

- **Carbon Dioxide Removal (CDR)** approaches
- **Socio-economic** risks of climate change in Europe
- **Social** science for land-use strategies in the context of climate change and biodiversity challenges
- Verification and reconciliation of **estimates of climate forcers**
- Development of high-resolution **Earth system models** for global and regional climate change projections
- Improvement of **Integrated Assessment Models** in support of climate policies
- Supporting the formulation of adaptation strategies through **improved climate predictions** in Europe and beyond
- Let nature help do the job: **Rewilding** landscapes for **carbon sequestration, climate adaptation and biodiversity support**

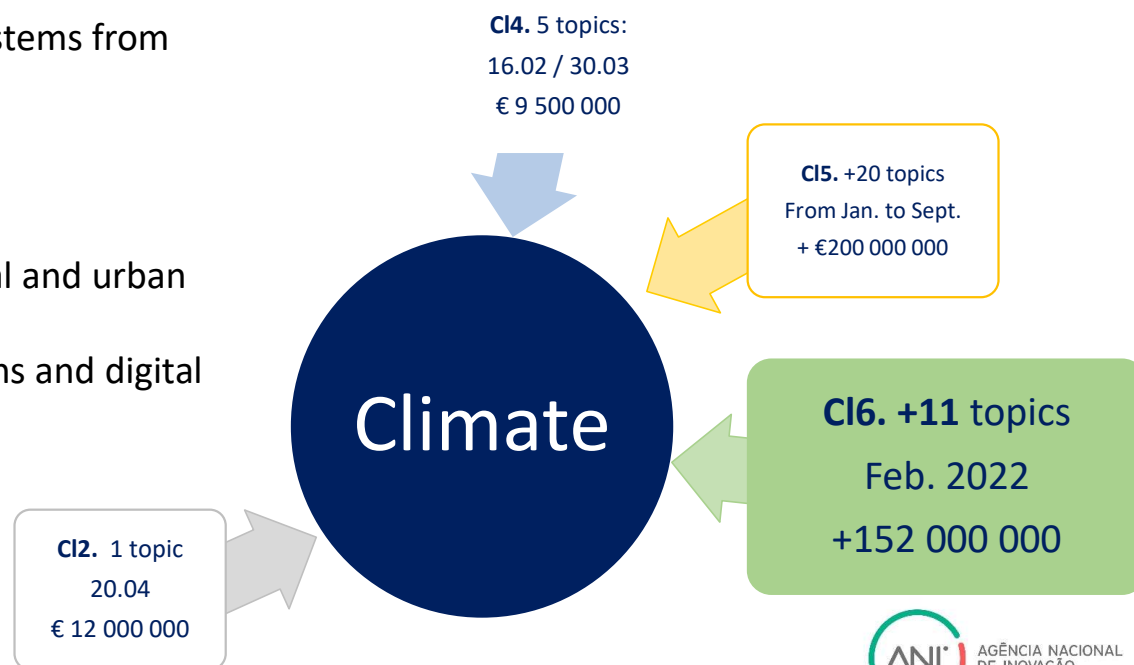
## Cluster 6 – Food, Bioeconomy, Natural Resources, Agriculture and Environment

### Destinations

1. Biodiversity and ecosystem services
2. Fair, healthy and environmentally-friendly food systems from primary production to consumption
3. Circular economy and bioeconomy sectors
4. Clean environment and zero pollution
- 5. Land, oceans and water for climate action**
6. Resilient, inclusive, healthy and green rural, coastal and urban communities
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal

### NCPs & Delegates

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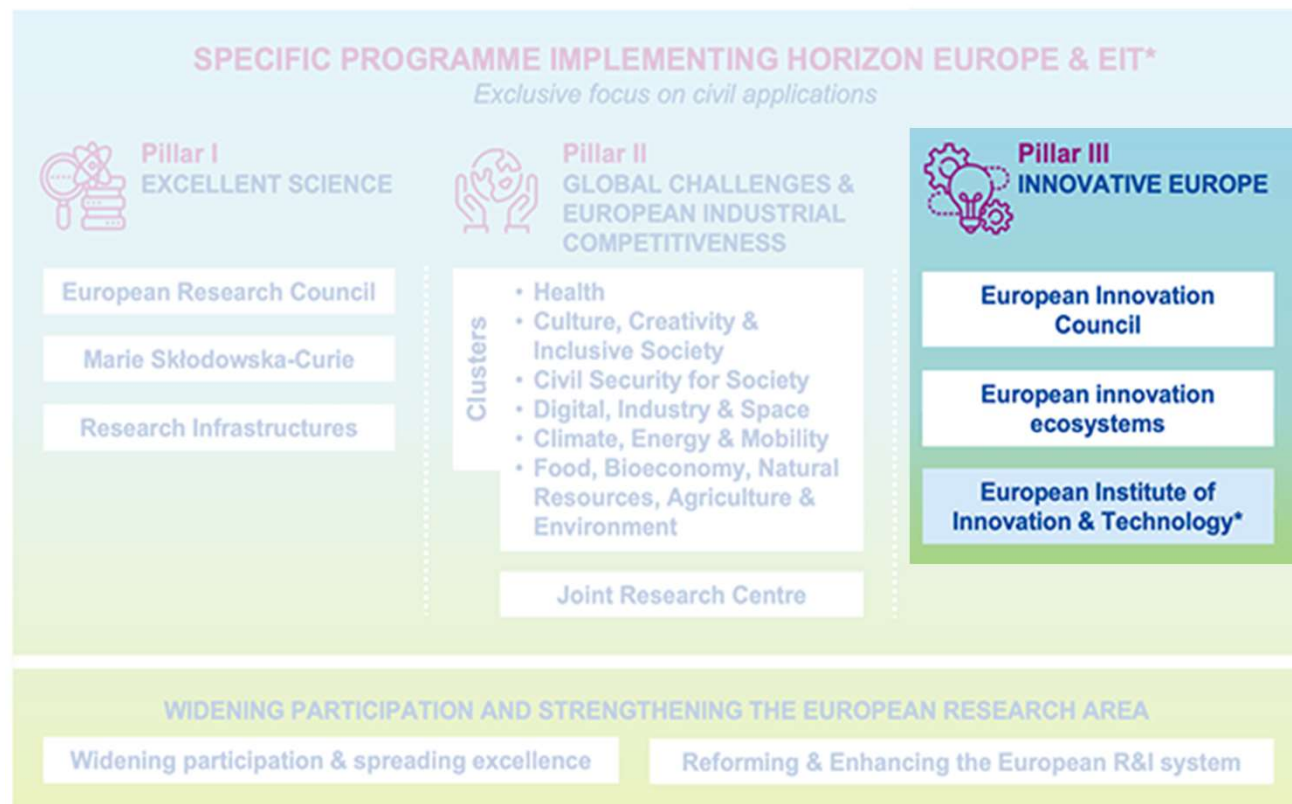
## Destination 5: Land, oceans and water for climate action

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16 topics focused on

- Impacts of climate change on land and marine environments, natural resources, agriculture and food systems
- Mitigation potential of ecosystems and sectors based on the sustainable management of natural resources
- Fresh water resources, safe operating space - includes European Partnership Water Security for the Planet (Water4All) starting in 2021 (Programme co-fund action)
- Strengthening the ocean and climate nexus
- Role of agriculture to reduce and mitigate GHG emissions and to enhance carbon sinks
- Focus on large-scale deployment and uptake of solutions

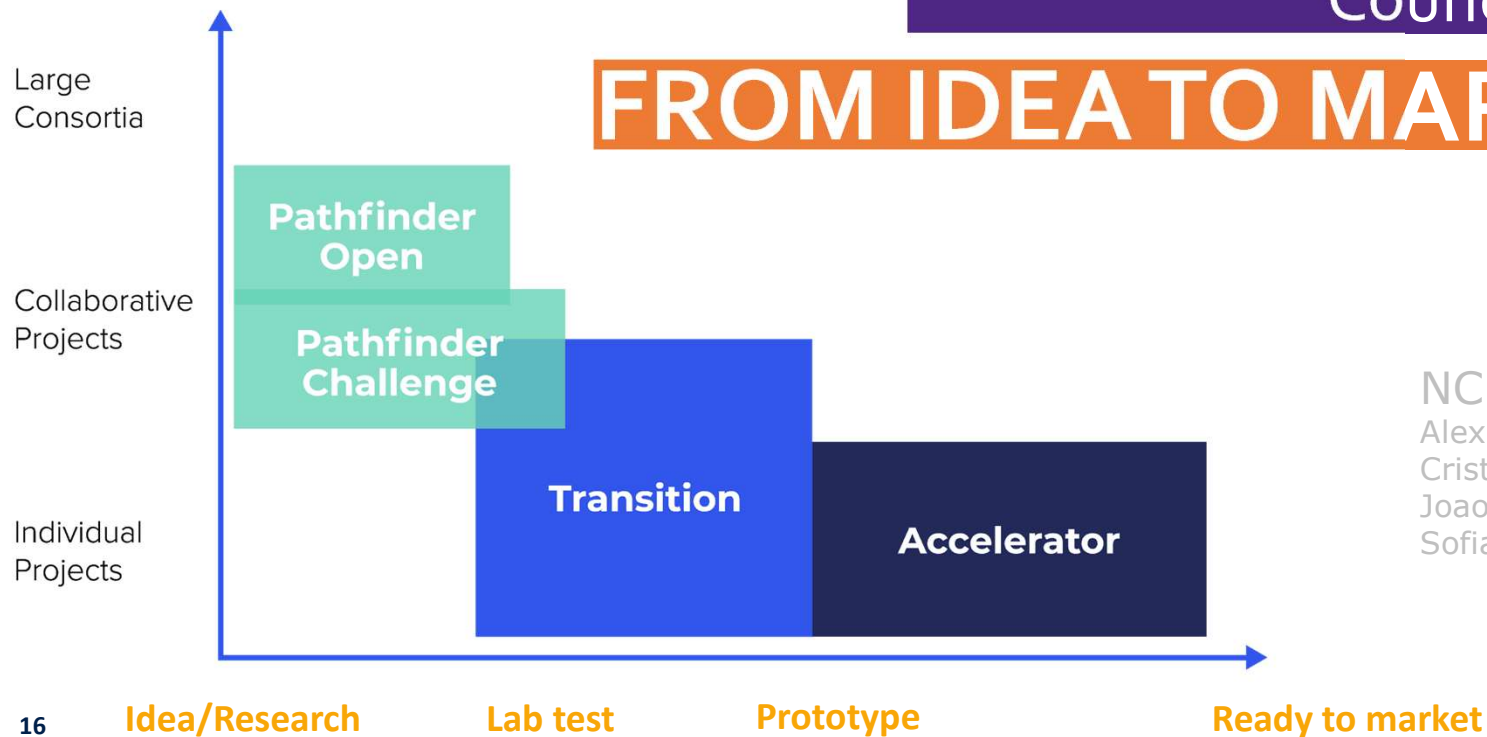
## Pilar III: Innovative Europe



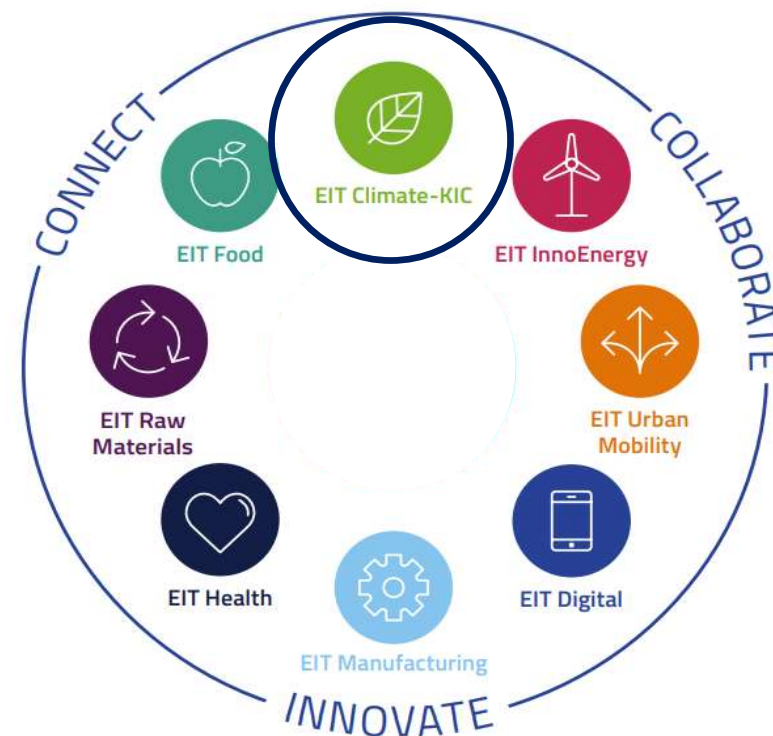
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## FROM IDEA TO MARKET



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EUROPEAN UNION

# EU MISSIONS



**Concrete solutions for our greatest challenges**

**#EUmissions #HorizonEU**



## Five Missions Areas



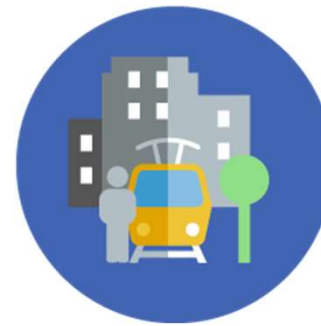
**Adaptation to  
climate change,  
including societal  
transformation**



**Cancer**



**Healthy oceans,  
seas, coastal &  
inland waters**



**Climate-neutral  
& smart cities**

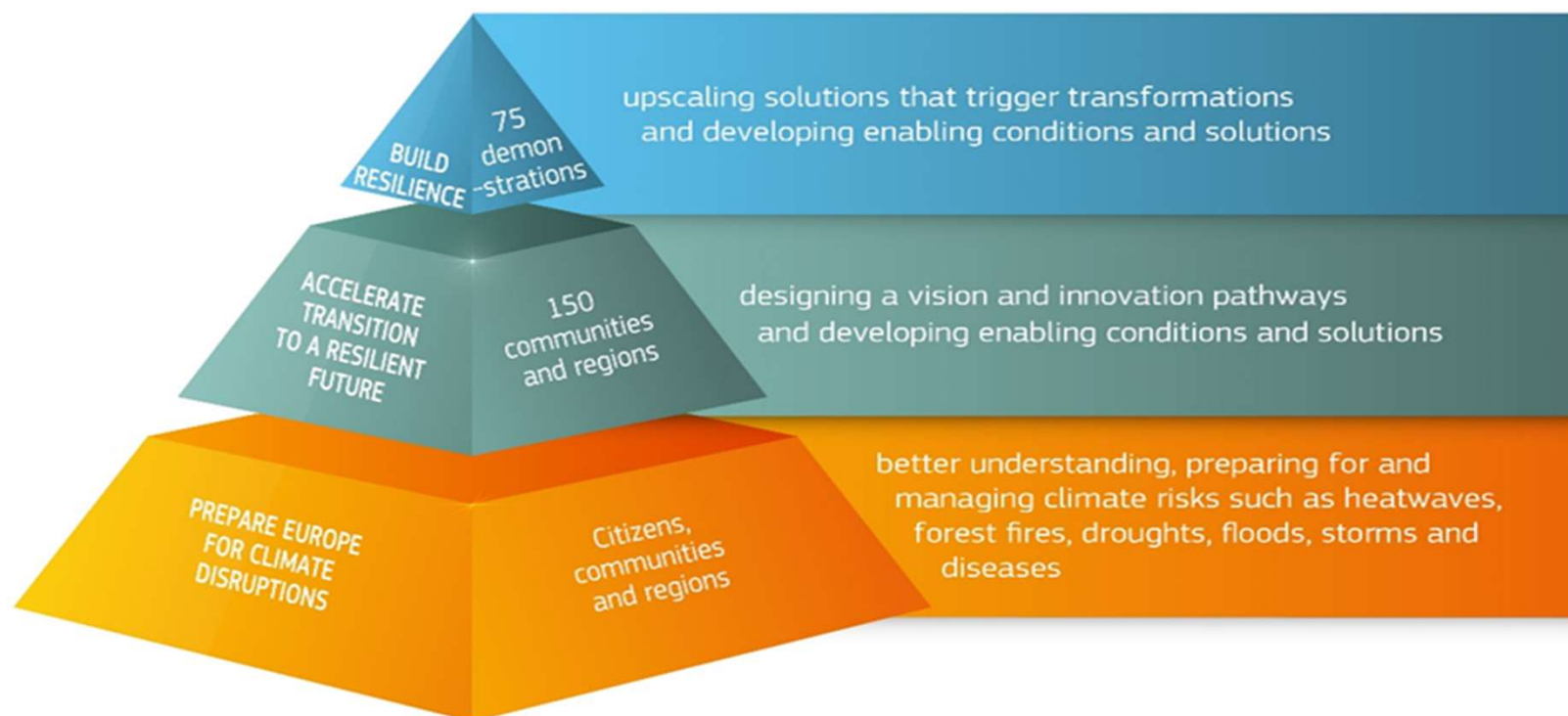


**Soil health &  
food**



# Objectives

***Overall objective: to support at least 150 European regions and communities in becoming climate resilient by 2030***



## Horizon Europe R&I topics



- **Jan 2022:** First calls (deadline april 2022)
- **R&I highlights** → climate change risk assessments; supporting regions towards climate resilience; large scale demonstrators of climate resilience; local engagement of for climate resilience



 **EUROPEAN UNION**

 **EU  
MISSIONS**

**CLIMATE-NEUTRAL & SMART CITIES**

**Concrete solutions for our greatest challenges**

**#EUmissions #HorizonEU #MissionCities**

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## Climate-neutral & Smart Cities Mission

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

Climate City  
Contracts

Mission Platform  
(*NetZeroCities*)

Tailor-made help  
with funding and  
financing

A **Mission label** to  
unlock synergies  
with other  
programmes

R&I action

Innovative city  
governance models  
and citizen  
engagement

## Climate-neutral & Smart Cities Mission

Oct 2021: [InfoKit for Cities](#) to help cities prepare for the call

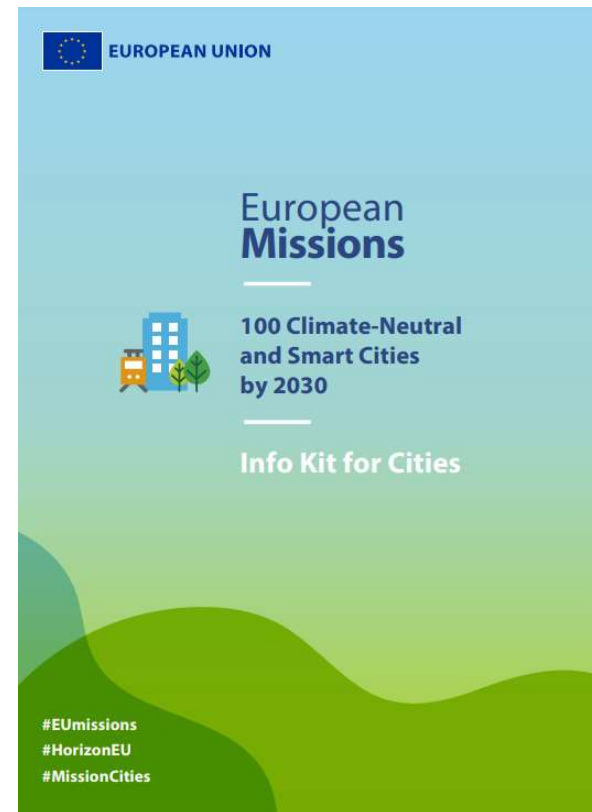
**Nov 2021:** [Pre-registration Call for Expression of Interest &](#)

publication of Call for Expression of Interest (deadline: **jan 2022**)

Mar 2022: Selection of participating cities

Mid 2022: Mission Platform works with first cities to develop

Climate City Contracts



## Missão Clima

Support at least 150 European regions and communities to move towards climate resilience by 2030

- **Jan 2022:** First calls (deadline april 2022)
- End 2022: signature of 1st grants and strat of projects
- [Information Session on the EU Mission Adaptation to Climate Change](#): 23 nov (13:30 – 15:00)

## Horizon Europe R&I topics supporting the Climate-neutral & Smart Cities Mission

- **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





## Formulate your idea

Topic = problem

Proposal = solution

Where does the proposal fit?

Link idea with expected impact/outcomes requested

## Questions to solve

What problem is being solved?

European problem?

Why now? What will be the outcome?

Scale (citizens affected, broad cooperation?)

## Impact

Key Impact Factors

Clearly identify outcomes

Outcomes / Impact contribute to WP? Pathways

# Evaluator

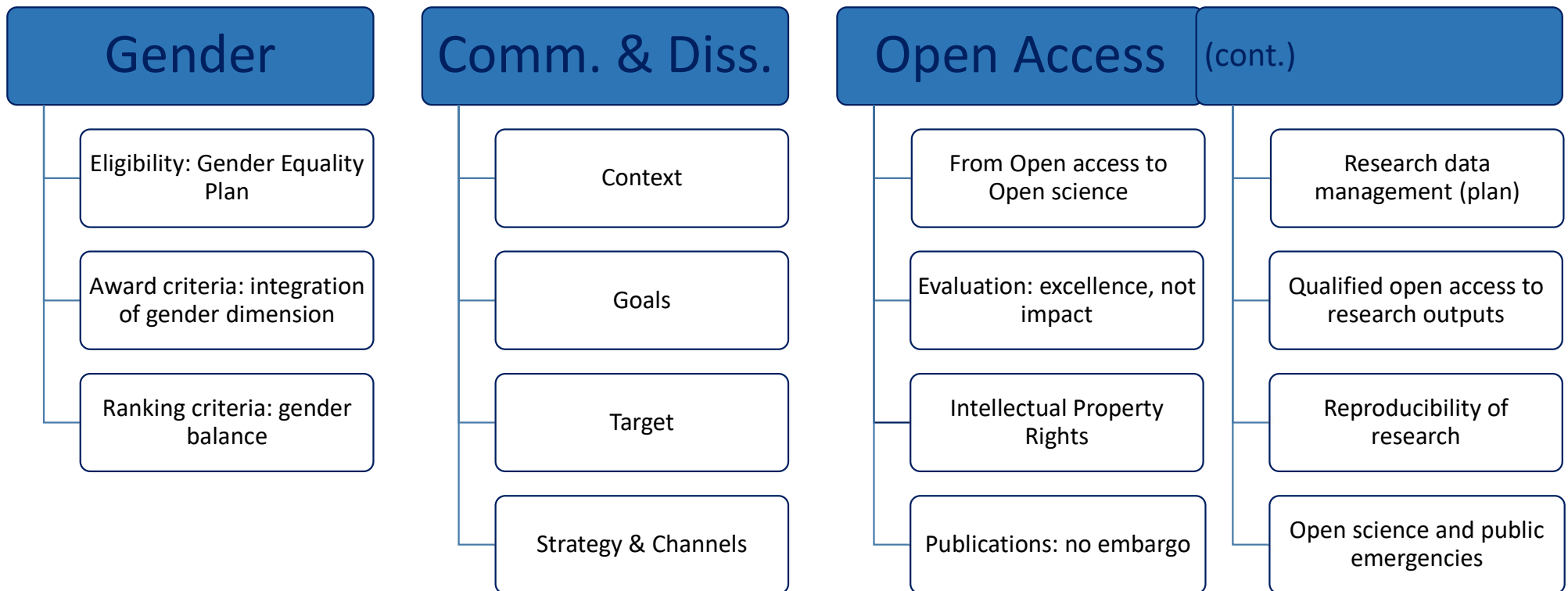
Call their attention – 1<sup>st</sup>  
paragraph

Set out the outcome –  
why you?

Simple & plain language  
= NO jargon!

Clear reference within  
the document





Best practices to submit your proposal: check this [FAQ](#) to find out some best practices to prepare the forms for your proposal and submit it.

- **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.

[Which pitfalls should I avoid in using the electronic proposal submission system? Funding & tenders \(europa.eu\)](#)

## Get Prepared

Participe nas discussões das prioridades de I&I

[Grupo Nacional de Discussão do Horizonte Europa  
Pilar II & Pilar III](#)

Mailing list para novidades sobre o Horizonte Europa

[Contact List](#)



## Contactos



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CRISTINA  
GOUVEIA



FRANCISCA  
EIRIZ



JOÃO  
RIBAU



LUÍS  
MAIA



MARGARIDA  
OLIVEIRA



MARGARIDA  
SANTOS



MARIA JOÃO  
FERNANDES



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DIAS



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