



Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÉNCIA, TECNOLOGIA E ENSINO SUPERIOR



AGÊNCIA NACIONAL
DE INOVAÇÃO

HORIZONTE 2020: Economia Circular e Cidades Sustentáveis

Prioridades 2018-2020 do Desafio Societal Ação Climática

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Pontos de Contacto Nacional do Horizonte 2020



FEUP FACULDADE DE ENGENHARIA
UNIVERSIDADE DO PORTO



10/07/2017

Principais iniciativas e políticas

Programa de Trabalhos 2018-2020 do Desafio Societal Ação climática, eficiência de recursos e matérias-primas

- *Circular Economy Package*
- *COP21 Paris Agreement*
- *UN's Sustainable Development Goals (SDGs)*
- *2030 Climate and Energy Framework*
- *Bioeconomy Strategy*
- *European Industrial Renaissance*



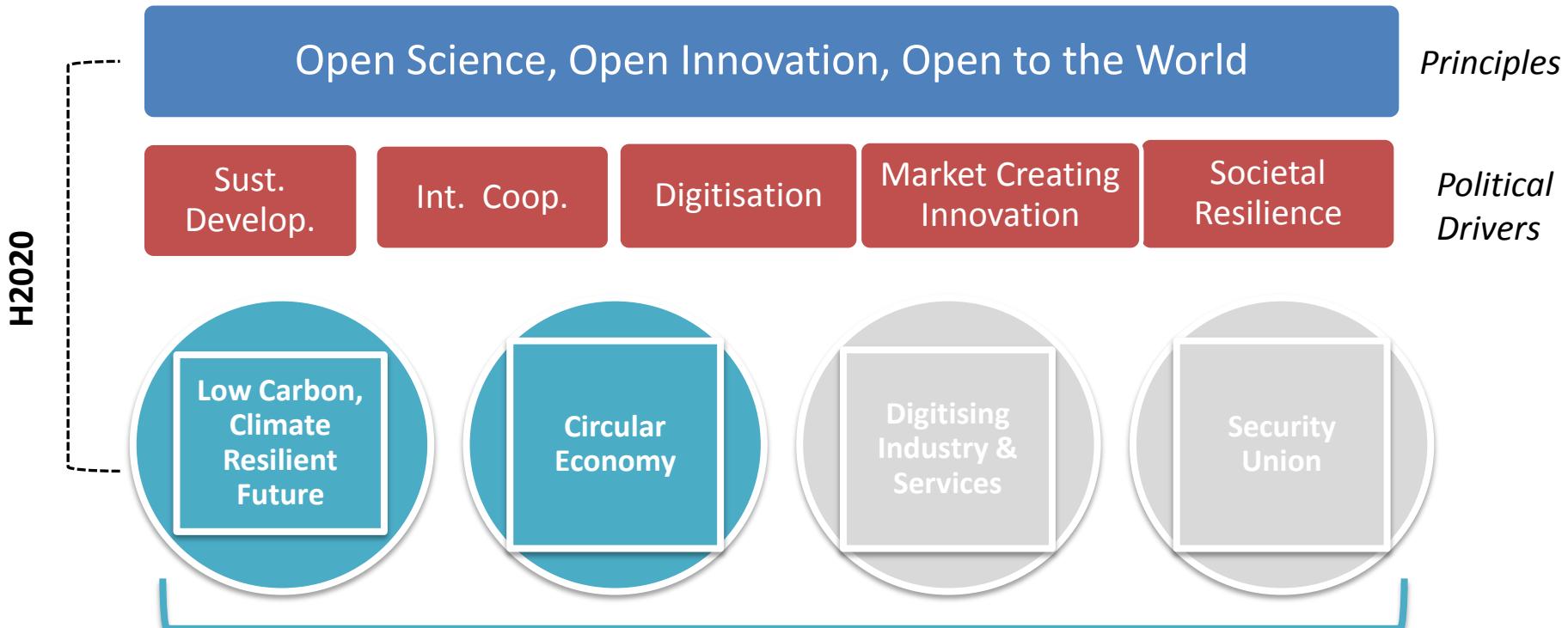
Orientações Programa de Trabalhos 2018-2020

Prioridades do Programa de Trabalhos

- *Climate Action in support of the Paris Agreement*
- *Circular Economy*
- *Water for our environment, economy and society*
- *Innovating Cities for sustainability and resilience*
- *Raw Materials*
- *Protecting and valorising our natural and cultural assets*
 - *Earth observation*
 - *Nature-based solutions, disaster risk reduction & natural capital accounting*
 - *Heritage alive*



Orientações Programa de Trabalhos 2018-2020



4 FOCUS AREAS em 2018-2020

DS Ação Climática contribui para 2 *focus areas*



Orientações Programa de Trabalhos 2018-2020

Building a low-carbon, climate resilient future:
Climate action in support of the Paris Agreement

2018 **123 M€**

2019 **111 M€**

2020 **192 M€**

Greening the economy in line with the Sustainable Development Goals (SDGs)

2018 **218.7 M€**

2019 **259 M€**

2020 **81 M€**



Orientações Programa de Trabalhos 2018-2020

*Call Building a low-carbon, climate
resilient future:
Climate action in support of the
Paris Agreement*

Decarbonisation

Climate adaptation, impacts and services

Inter-relations between climate change,
biodiversity and ecosystem services

The Cryosphere

Knowledge gaps

Earth Observation

*Call Greening the economy in line with
the Sustainable
Development Goals (SDGs)*

Connecting economic and environmental gains
– the circular economy

Raw materials

Water for our environment, economy and
society

Innovating cities for sustainability and resilience

Protecting and leveraging value the value of our
natural and cultural assets - Earth observation

Protecting and leveraging value the value of our
natural and cultural assets - NBS, disaster risk
reduction and natural capital accounting

Protecting and leveraging value the value of our
natural and cultural assets - Heritage alive

Call GREENING THE ECONOMY IN LINE WITH THE



<https://sustainabledevelopment.un.org/?menu=1300>



Call GREENING THE ECONOMY IN LINE WITH THE SDGs

– Connecting economic and environmental gains – the circular economy

*more circular economic model with products, processes and business models that are **designed to maintain the value and utility of materials and resources in the economy for as long as possible.***

*The circular economy solutions should combine a **strong environmental rationale** with a **convincing business logic***



Prioridades
(2018-2020)

Para conhecer os tópicos a concurso, por favor, contacte os NCPs do tema!



Call GREENING THE ECONOMY IN LINE WITH THE SDGs

– Raw materials

Deliver pilot actions demonstrating sustainable production of primary and secondary raw materials, particularly CRM or other scarce high-tech metals.



**Prioridades
(2018-2020)**

Para conhecer os tópicos a concurso, por favor, contacte os NCPs do tema!



Call GREENING THE ECONOMY IN LINE WITH THE SDGs – Water for our environment, economy and society

Accelerate the implementation of EU policies and initiatives relating to water, resource efficiency and water-dependent industries, while also contributing to policy relating to the Energy Union, climate action and the digital economy.

Prioridades
(2018-2020)

Para conhecer os tópicos a concurso, por favor, contacte os NCPs do tema!



Call GREENING THE ECONOMY IN LINE WITH THE SDGs – Innovating cities for sustainability and resilience

Enabling cities to design and implement transition pathways to becoming inclusive, resilient, sustainable, low-carbon and resource efficient by enhancing their innovation capacity and enabling them to act as hubs of innovation.

Prioridades
(2018-2020)

Para conhecer os tópicos a concurso, por favor, contacte os NCPs do tema!



START EARLY ... START NOW



- Planificar com antecedência
- Ler com atenção e cuidado
- Envolver-se
- Ser realista

COMO começar?



- **Tipo de Ação** (RIA, IA, CSA)
- **Explorar em profundidade o tópico** e o seu contexto político e prioridades
 - **Specific Challenge**: estabelece o contexto e o problema a ser abordado
 - **Scope**: explica o problema, especifica o enfoque, quem deve ser envolvido, a componente internacional e a necessidade de integrar as Ciências Sócio-Económicas e Humanidades (SSH) ou as questões de género
 - **Expected Impacts**: descreve oq eu deve ser atingido tendo em conta o desafio do tópico

COMO começar?



→ SÊ RELEVANTE

- Mostra que entendeste quais são os desafios

→ SÊ SIMPLES e CONVINCENTE

- Explica a tua mensagem numa linguagem simples e assertiva
- Convence o avaliador com factos e números
- Fundamenta os teus *statements*

→ SÊ CRITERIOSO

- Garante que reúnes todas as condições de admissibilidade e elegibilidade

CRITÉRIOS de AVALIAÇÃO

EXCELÊNCIA

3/5

- Clarity and pertinence of the objectives
- Soundness of the concept, and credibility of the proposed methodology
- Extent that the proposed work is beyond the state of the art, and demonstrates innovation potential (e.g. ground-breaking objectives, novel concepts and approaches, new products, services or business and organisational models)
- Appropriate consideration of interdisciplinary approaches and, where relevant, use of stakeholder knowledge

IMPACTO

3/5

- The extent to which the outputs of the project would contribute to each of the expected impacts mentioned in the work programme under the relevant topic;
- Any substantial impacts not mentioned in the work programme, that would enhance innovation capacity, create new market opportunities, strengthen competitiveness and growth of companies, address issues related to climate change or the environment, or bring other important benefits for society;
- Quality of the proposed measures to:
 - Exploit and disseminate the project results (including management of IPR), and to manage research data where relevant.
 - Communicate the project activities to different target audiences

IMPLEMENTAÇÃO

3/5

- Quality and effectiveness of the work plan, including extent to which the resources assigned to work packages are in line with their objectives and deliverables;
- Appropriateness of the management structures and procedures, including risk and innovation management;
- Complementarity of the participants and extent to which the consortium as whole brings together the necessary expertise;
- Appropriateness of the allocation of tasks, ensuring that all participants have a valid role and adequate resources in the project to fulfil that role.

TOTAL: 10/15

Orientações Programa de Trabalhos 2018-2020

RIA: *two-stage*
IA, CSA: *single-stage*

Building a low-carbon, climate resilient
future:
Climate action in support of the
Paris Agreement

Greening the economy in line with the
Sustainable
Development Goals (SDGs)

2018

27 Feb (Single and First Stage)
05 Sep (Second Stage)

2018

27 Feb (Single and First Stage)
05 Sep (Second Stage)

2019

19 Feb (Single and First Stage)
04 Sep (Second Stage)

2019

19 Feb (Single and First Stage)
04 Sep (Second Stage)



- *Pilar da Excelência Científica*
 - ERC
 - MSCA
 - Future and Emerging Technologies (FET)
 - Infraestruturas
- *Spreading excellence and widening participation*
 - Twinning (15 nov 2017)
 - ERA-CHAIRs (5 out 2017)

- *Calls transnacionais* lançadas pela FCT no âmbito das *ERA-NETs* e das *JPIs*
→ [FCT Cooperação Transnacional – ERA-NETs](#)
- *Calls for Tender* lançadas por Instituições Europeias
→ [Ted eTendering](#)



PORTO
INNOVATION WEEK.
WATER

24 SEPTEMBER TO 1 OCTOBER 2017

ALFÂNDEGA PORTO CONGRESS CENTRE, PORTUGAL



POWERED BY
 EIP Water
Unlocking opportunities—Innovating water



POWERED BY




POWERED BY
 waterlution

<http://www.portowaterinnovationweek.eu/>



SAVE THE DATE



Information day for

**HORIZON 2020 CLIMATE ACTION, ENVIRONMENT,
RESOURCE EFFICIENCY & RAW MATERIALS**

8-9 November 2017



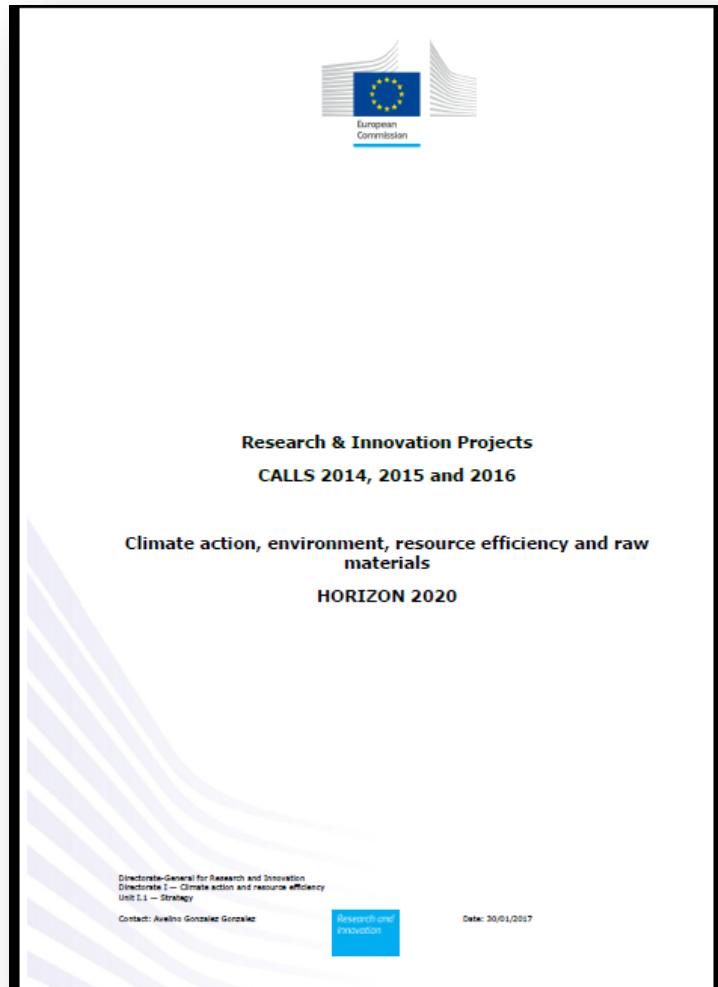
European
Commission

Onde podemos encontrar os melhores parceiros?

Catálogo com os projetos financiados
no Desafio Societal Ação climática
(sumário e consórcio)

Data Hub

<https://ec.europa.eu/easme/en/data-hub>



Catálogo de projetos financiados com participantes nacionais



Gabinete de Promoção do Programa Quadro ID&I



Fundação para a Ciéncia e a Tecnologia



AGÊNCIA NACIONAL
DE INOVAÇÃO

HORIZONTE 2020

Desafio Societal 5 - Ação Climática, Ambiente, Eficiéncia de Recursos e Matérias-Primas



PROJETOS APROVADOS com PARTICIPAÇÃO NACIONAL

(2014-2016)

[Catalogo online](#)



Rede de NCPs ao nível a UE- NCPs CaRE

<http://www.ncps-care.eu/>



Search in the website

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14th June 2017

GEOSSS and COPERNICUS – Earth observation systems

31st May 2017

Business Idea Competition in Raw

Materials

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Climate action, Environment, Resource Efficiency and Raw Materials

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Useful guides

dos-and-donts-for-applicants.pdf

DOs and DON'Ts for applicants

Criteria

Criteria	DO	DON'T
Excellence	<ul style="list-style-type: none">Define objectives clearly.Be ambitious, but stay realistic.Choose appropriate methodology.Choose relevant partners and reliable coordinator.Put effort on describing the state-of-art and proof of concept.Clear links with previous networks/projects and relevant policies.Engage interdisciplinary expertise.Stay accurate, concise throughout the proposalBring out the innovation potential.If something stays unclear, contact your NCP.	<ul style="list-style-type: none">Don't rush, poorly prepared proposal ruin even the most excellent plans.Don't repeat something that is already done.Don't forget to include partners from different regions, disciplines, stakeholder groups to compose a balanced consortium.Don't forget to show the credibility of your consortium.Don't hesitate to provide detailed description about your methodology, technical solutions etc. Superficial description of processes is often brought out as a major shortcoming.If you have a novel approach – don't forget to describe it thoroughly and to support it with relevant references

evaluators-recommendations-for-applicants.pdf

Main weaknesses, their improvement possibilities and main strengths highlighted by evaluators

Criterion	Excellence						
	<table border="1"><thead><tr><th>Main weaknesses in proposals</th><th>How to improve</th><th>Main strengths in proposals</th></tr></thead><tbody><tr><td><ul style="list-style-type: none">Lack of noveltyLack of originalityLack of clear objectivesLack of credibility of the proposed approachAmbitionPoor description of the state-of-the-artLack of precise indications of the advancement proposedLow TRLLack of clear cost calculationsNot fully covered scope of callRelation to the callNo link to industrial activityShort explanationsLack of tangible previous results specificationRepetition of already researched areas</td><td><ul style="list-style-type: none">Elaborate on evaluation criteriaMore interdisciplinary expertiseMore clear descriptionMore emphasis on impacts of technical features to business modelCloser cooperation with NCPsWider point of view of excellenceInclude more sub-criteria under excellenceEncourage new ideasTo have business or market related persons involved in writingFeasibility study should be attachedTo be more innovativeMore focus on the state-of-the-art and proof of conceptsShorter writing and more precise informationBetter guidelines on how to understand the scope of the callHiring the practical experience and know how in the field</td><td><ul style="list-style-type: none">Objectives and methodologyPartnershipVery detailed information - Relevant goalsTransdisciplinary considerationsInnovation potentialState of the artClear stated technical issuesHigh quality and linkages with previous or existing initiativesThe links with the Environmental EU / global challenges on energy/climate changeAbility to complement across countries and institutionsConcise, accurate and complete presentation</td></tr></tbody></table>	Main weaknesses in proposals	How to improve	Main strengths in proposals	<ul style="list-style-type: none">Lack of noveltyLack of originalityLack of clear objectivesLack of credibility of the proposed approachAmbitionPoor description of the state-of-the-artLack of precise indications of the advancement proposedLow TRLLack of clear cost calculationsNot fully covered scope of callRelation to the callNo link to industrial activityShort explanationsLack of tangible previous results specificationRepetition of already researched areas	<ul style="list-style-type: none">Elaborate on evaluation criteriaMore interdisciplinary expertiseMore clear descriptionMore emphasis on impacts of technical features to business modelCloser cooperation with NCPsWider point of view of excellenceInclude more sub-criteria under excellenceEncourage new ideasTo have business or market related persons involved in writingFeasibility study should be attachedTo be more innovativeMore focus on the state-of-the-art and proof of conceptsShorter writing and more precise informationBetter guidelines on how to understand the scope of the callHiring the practical experience and know how in the field	<ul style="list-style-type: none">Objectives and methodologyPartnershipVery detailed information - Relevant goalsTransdisciplinary considerationsInnovation potentialState of the artClear stated technical issuesHigh quality and linkages with previous or existing initiativesThe links with the Environmental EU / global challenges on energy/climate changeAbility to complement across countries and institutionsConcise, accurate and complete presentation
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ESR-analysis.pdf

General observations based on ESR analysis:

Surprisingly, a large proportion of shortcomings were due to carelessness, which most probably were due to last minute submissions/hurry or rush. Here come some examples: Carelessly read the call text, related documents and forms - e.g. avoid simple mistakes as using a wrong template, do not ignore required aspects (e.g. gender issues, number of quantifiable outcomes, including requested impact letters etc.). Also other common mistakes are inconsistencies between Work Packages (WP), only one of the expected impacts is addressed but not all, repeated activities in several WPs etc. This kind of mistakes would be the easiest to avoid. In addition, many applicants make mistakes, therefore it is very important to start proposal preparations as early as possible.

Demonstration of coordinator's reliability was brought out in many ESRs. It shows that it is very important to carefully choose your coordinator and that the coordinator makes efforts to communicate properly about the background and previous activities of this organisation/partner (in the template - full proposal/2nd stage – part 3 „Implementation“).

It is better to provide more explanation, but at the same time keep a very clear focus of your project if the focus is too wide and too complexly put, then there is a great risk that it is not understandable for the evaluator and it is not possible to ask questions or give additional explanations it can be seen as a major shortcoming. The evaluator has to get everything at once from the proposal.

All the numerical values should be supported by references, otherwise these are not convincing. Simultaneously try to keep the plane format (e.g. avoid too many footnotes).

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 642025

IGPQ



Inscreva-se como AVALIADOR do Desafio Societal Ação Climática



The slide features three icons side-by-side, each with a corresponding benefit text below it:

-  **25% new experts**
-  **Read excellent proposals**
-  **Network with fellows**

Below the icons, a bulleted list specifies the sectors involved:

- Academia (in particular eastern Europe)
- Private sector / innovation agencies
- Local / national authorities / agencies

<https://ec.europa.eu/easme/en/call-experts-climate-action-environment-resources-management>



“LIDERAR A TRANSIÇÃO: Plano de Ação para a Economia Circular em Portugal 2017-2020” - em consulta pública até 31 julho



Liderar a transição

[plano de ação para a economia circular em Portugal: 2017-2020]



Gabinete de Promoção do Programa-Quadro (GPPQ)

<http://www.gppq.fct.pt/h2020/>



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