



AGÊNCIA NACIONAL
DE INOVAÇÃO



Funding Innovation - Opportunities for Researchers

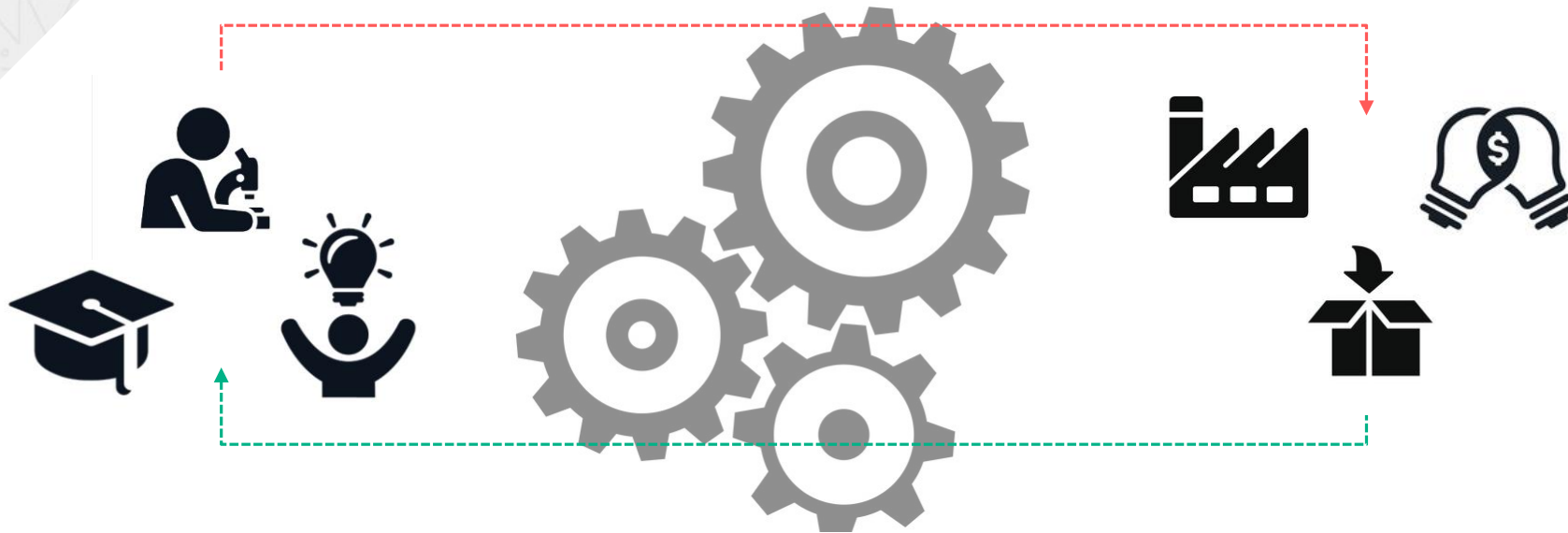
With a focus on the EU Green Deal

Eduardo Maldonado

NOVA SCIENCE DAY 2020

22nd SEPTEMBER

Collaborative innovation facilitator



Academia - Industry

COLLABORATION

Technology and knowledge Transfer

COMMERCIALIZATION & INNOVATION



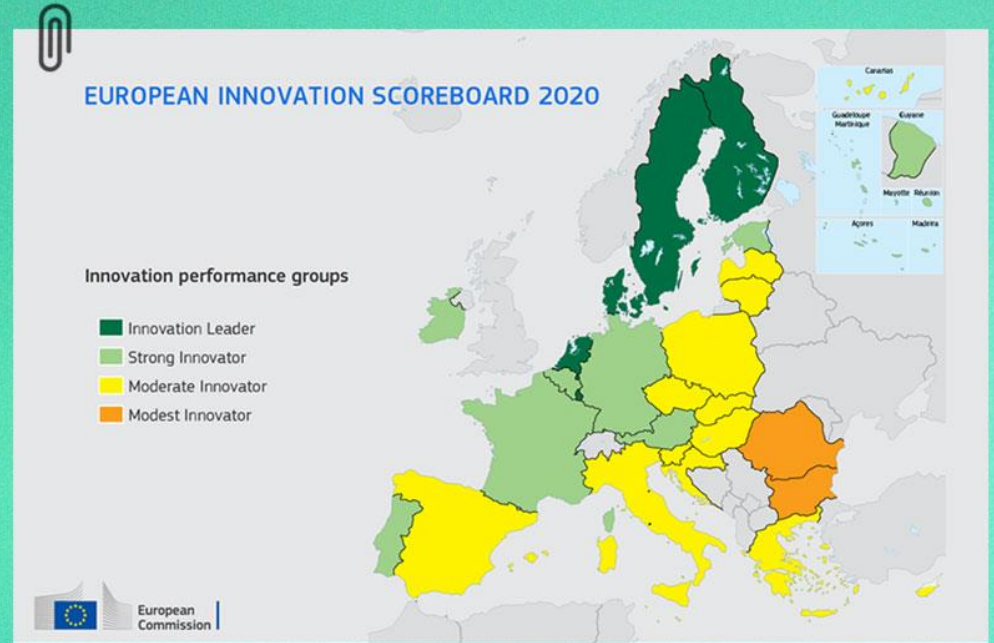
Support/Promote Technological & Industrial Innovation

- Increase **industrial investment in R&I**;
- Increase **knowledge transfer** from academia to the Economy;
- Promote favourable conditions towards **technology-based entrepreneurship**;
- Increase participation of the PT innovation ecosystem in **internacional R&I networks**
- Support industry towards **capacity-building their in-house R&I**



Portugal now belongs to the group of strong innovators of the EU for the first time.

2020 EU Innovation Scoreboard



PORTUGAL

"STRONG INNOVATOR" COUNTRY

12th most innovative country in European Union



MAIN INSTRUMENTS

- 1 - Cooperative projects within the Portuguese Structural Funds Programmes (**PT2020** and **PT2030**)
- 2 - **SIFIDE** - the industrial tax credit scheme in Portugal
- 3 - Support to **CoLAB** and **Industrial Intaface centres (CIT)**
- 4 - Portugal in the EU R&I FP
Horizon 2020
Horizon Europe
(Global Challenges and EIC, within PERIN - aiming at doubling EU competitive funding for Portugal 2021-2027)



PORTUGAL 2020 PROJECTS

ANI 2014 - 2020 - Portugal 2020 - Candidaturas aprovadas (21-06-2020)

Desenvolvido por



Proj. aprovados (n.º)

1,002

Investimento
aprovado (€)

1.357.7M

Incentivo público (€)

745.8M

Pagamentos
realizados (€)

239.1M

Promotores (n.º)

3,124

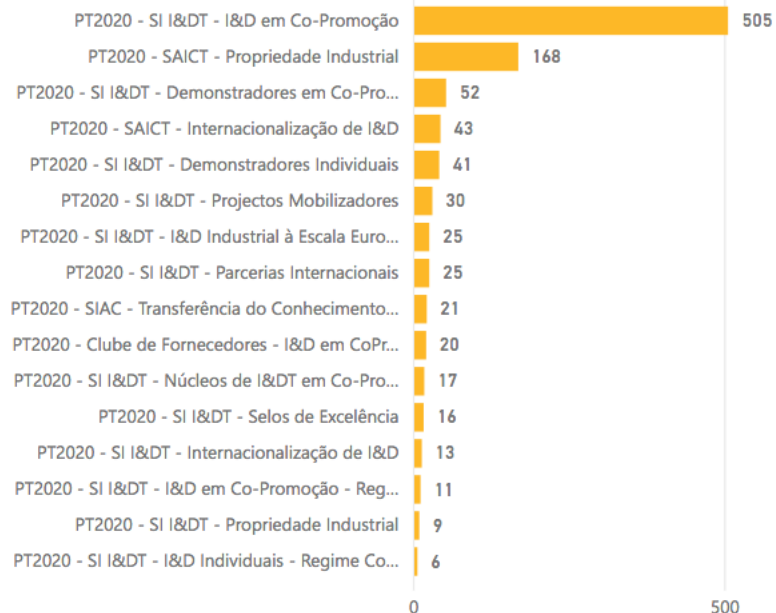
Média - Investimento
por projeto (€)

1.4M

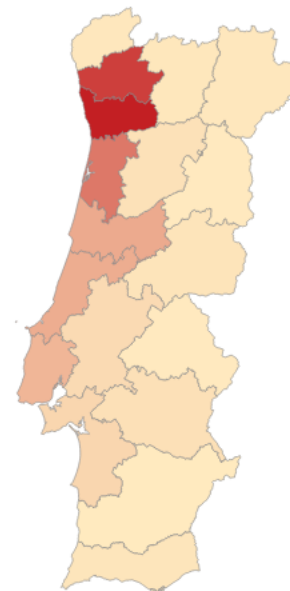
Média - Incentivo por
projeto (€)

744.3K

Número de Projetos por Medida de apoio



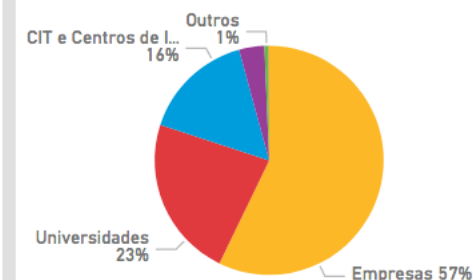
Incentivo Total por Distrito



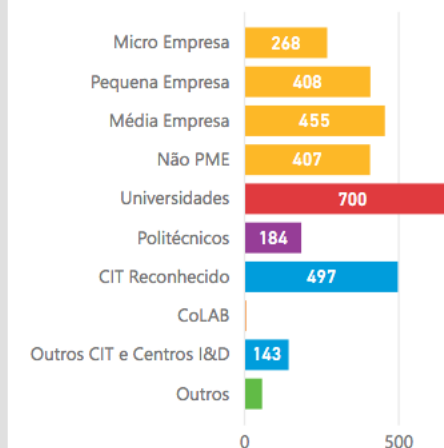
Tipo entidade

All

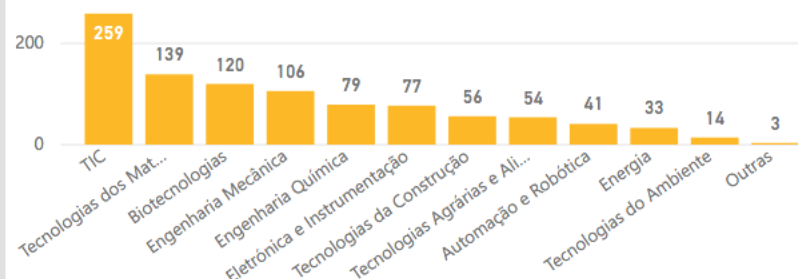
Incentivo Total por Tipo de entidade



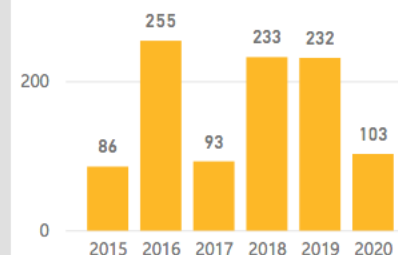
Número de participações por Tipo de entidade



Número de projetos por Área Tecnológica



Candidaturas aprovadas por Ano



SIFIDE - Sistema de Incentivos Fiscais à I&D - 2006 a 2019 (01-08-2020)

Desenvolvido por

Selecionar Ano Fiscal

All

Selecionar Dimensão da Empresa

All

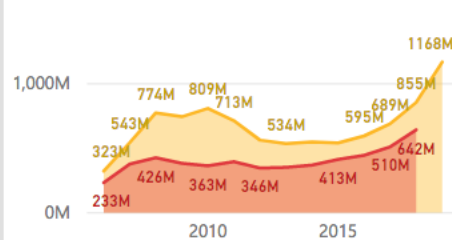
Selecionar Setor de Atividade

All

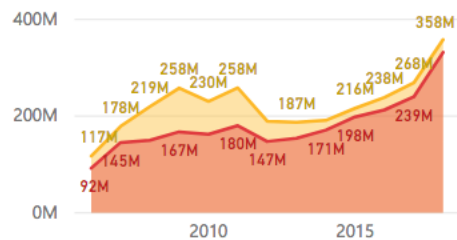
Candidaturas por Ano



Investimento em I&D
declarado vs. apurado



Crédito fiscal solicitado vs.
atribuído



● Inv. em I&D declarado ● Inv. em I&D apurado

● Crédito solicitado ● Crédito atribuído

Candidaturas
recebidas (n.º)

16,192

Empresas candidatas (n.º)

4,424

Contagem única

Investimento em I&D
declarado (€)

9,398.6M

Média - Investimento em
I&D declarado por
candidatura (€)

580.4K

Crédito Fiscal
solicitado (€)

2,908.0M

Média - Crédito Fiscal
solicitado por candidatura
(€)

179.6K

Candidaturas
aprovadas (n.º)

12,620

Empresas apoiadas (n.º)

3,193

Contagem única

Investimento em I&D
apurado (€)

5,250.6M

Média - Investimento em
I&D apurado por
candidatura (€)

416.1K

Crédito Fiscal
atribuído (€)

2,348.8M

Média - Crédito Fiscal
atribuído por candidatura
(€)

186.1K

Taxa de aprovação do
investimento* média (%)

66.7

*Investimento em I&D apurado /
Investimento em I&D declarado

Taxa de aprovação do
crédito fiscal* média (%)

85.7

*Crédito fiscal atribuído / Crédito fiscal
solicitado

Taxa de apoio* média (%)

44.7

*Crédito fiscal atribuído / Investimento em
I&D apurado



Collaborative Laboratories Network



70 M€ for 2018-2020

CoLAB AND CIT

	AEMITEQ	AIBILI	BLC3	CATIM	CCG ZGDV	CEIIA	CENTITVC	CENTIMFE	CITEVE	COTHN	COTR	CTCOR	CTCP	CTCV	CTIC	CVR	IBET	IEP	INEGI	INESC MN	INESC TEC	INL	INOV INESC	IPN	ISQ	IT	ITeCons	PIEP	RAIZ	UNINOVA	WAVEC
Automation and Robotics					●			●											●		●			●							
Electronics and Instrumentation							●											●				●	●	●		●	●			●	
ICT and Telecommunications					●	●		●												●	●		●	●		●				●	
Construction Technologies					●									●													●				
Production Technologies									●				●																		
Material Technologies	●			●		●	●	●	●			●	●	●	●				●			●		●			●	●	●		
Nanotechnology							●													●			●								
Mechanical Engineering						●		●											●			●					●				
Industrial Engineering					●																										
Energy			●		●									●	●				●	●				●			●				●
Health Chemistry Biotechnologies	●	●	●				●					●					●					●					●		●		
Environment Quality Safety Metrology	●		●	●								●		●	●	●		●	●			●			●						
Agricultural and Food Technologies			●							●	●	●					●					●									

32 M€ for 2018-2020



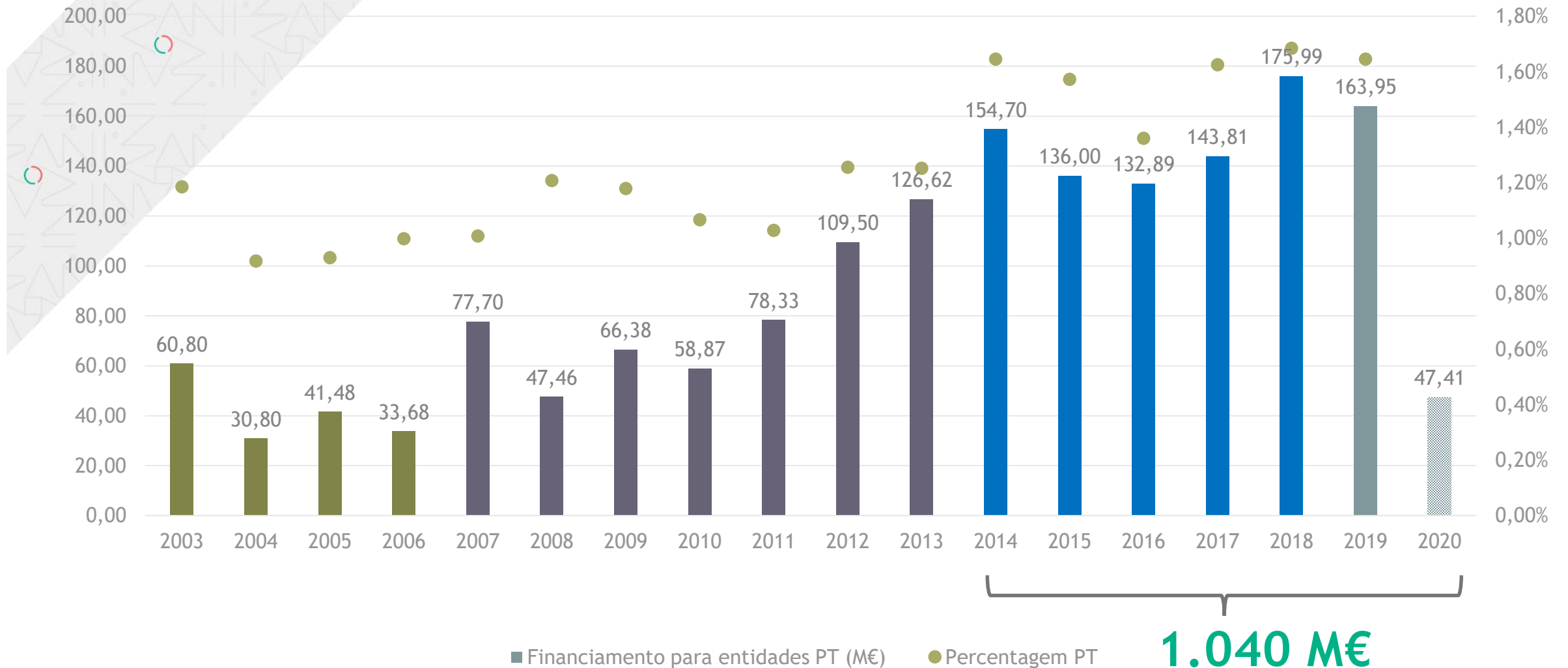
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HORIZON 2020 | 2014-2020

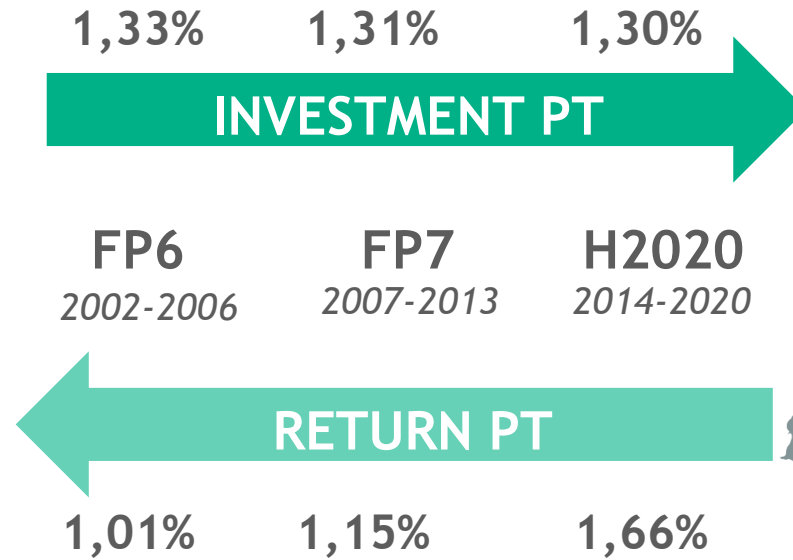
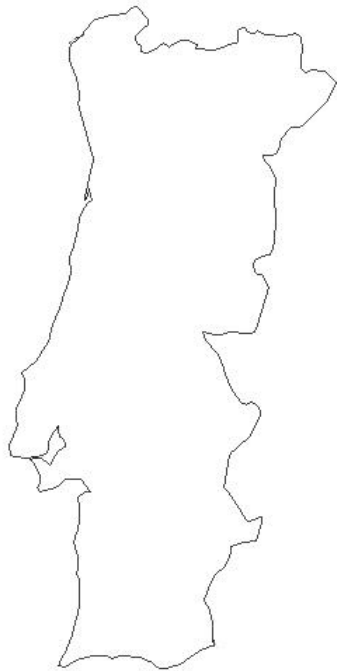


EVOLUTION OF PORTUGUESE PARTICIPATION





PORTUGAL IS A NET BENEFICIARY SINCE 2012





PORTUGUESE PARTICIPATION IN H2020 (2014 - 2020)

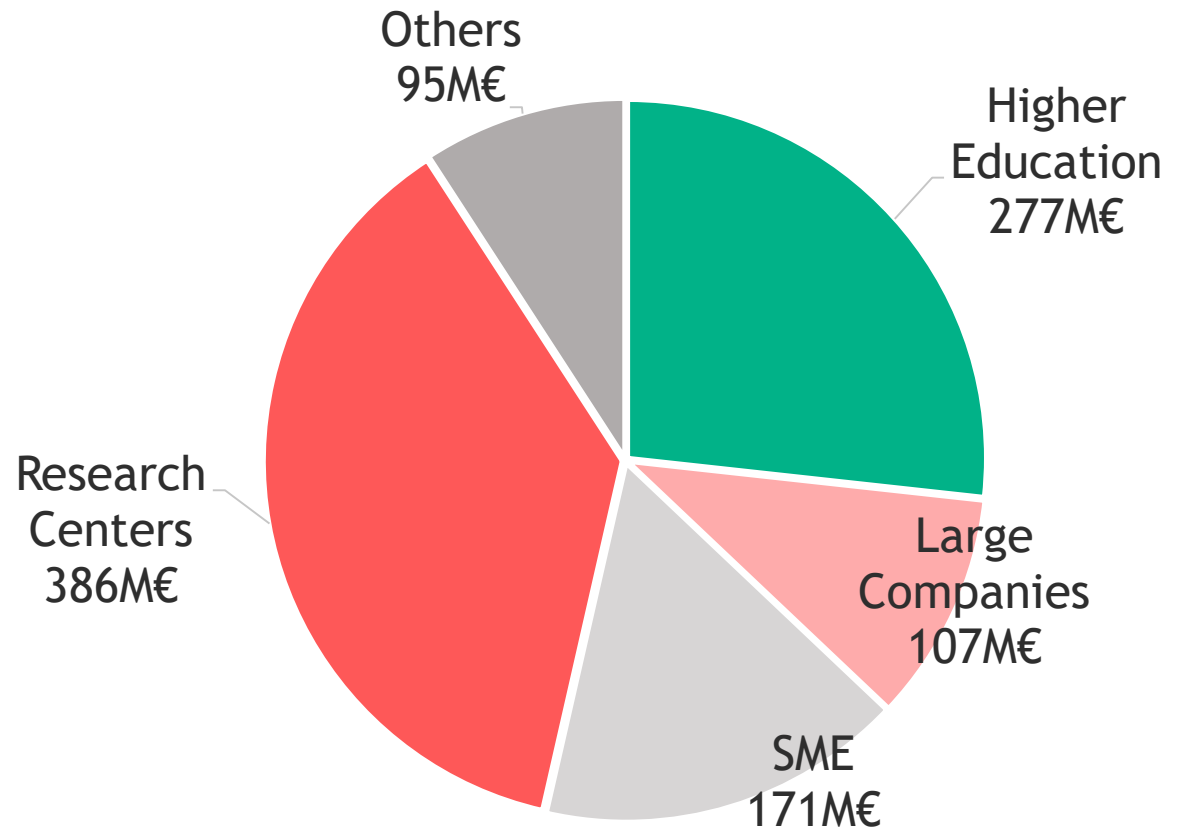
15120 Proposals

2180 Projects

613 Coordinations

3145 Participants

1040 M€



*dados provisórios



TOP 10 PORTUGUESE PARTICIPANTS IN H2020

Higher Education Institutions	Research Centres	Industry
<ol style="list-style-type: none">1. Universidade de Lisboa2. Universidade do Porto3. Universidade Nova de Lisboa4. Universidade de Coimbra5. Universidade de Aveiro6. Universidade do Minho7. Universidade de Évora8. Instituto Politécnico do Porto9. Universidade do Algarve10. Universidade dos Açores	<ol style="list-style-type: none">1. UNINOVA2. IMM3. INESC TEC4. Fundação Champalimaud5. ICETA6. INL7. NOVA ID FCT8. Fciências.ID9. Fundação Calouste Gulbenkian10. IBMC	<ol style="list-style-type: none">1. EDP2. SPI3. Unparallel Innovation4. CNET - Centre for New Energy Technologies5. Altice Labs6. UBIWHERE7. INOVAMAI8. PDM e FC9. Deimos Engenharia10. GMV Skysoft

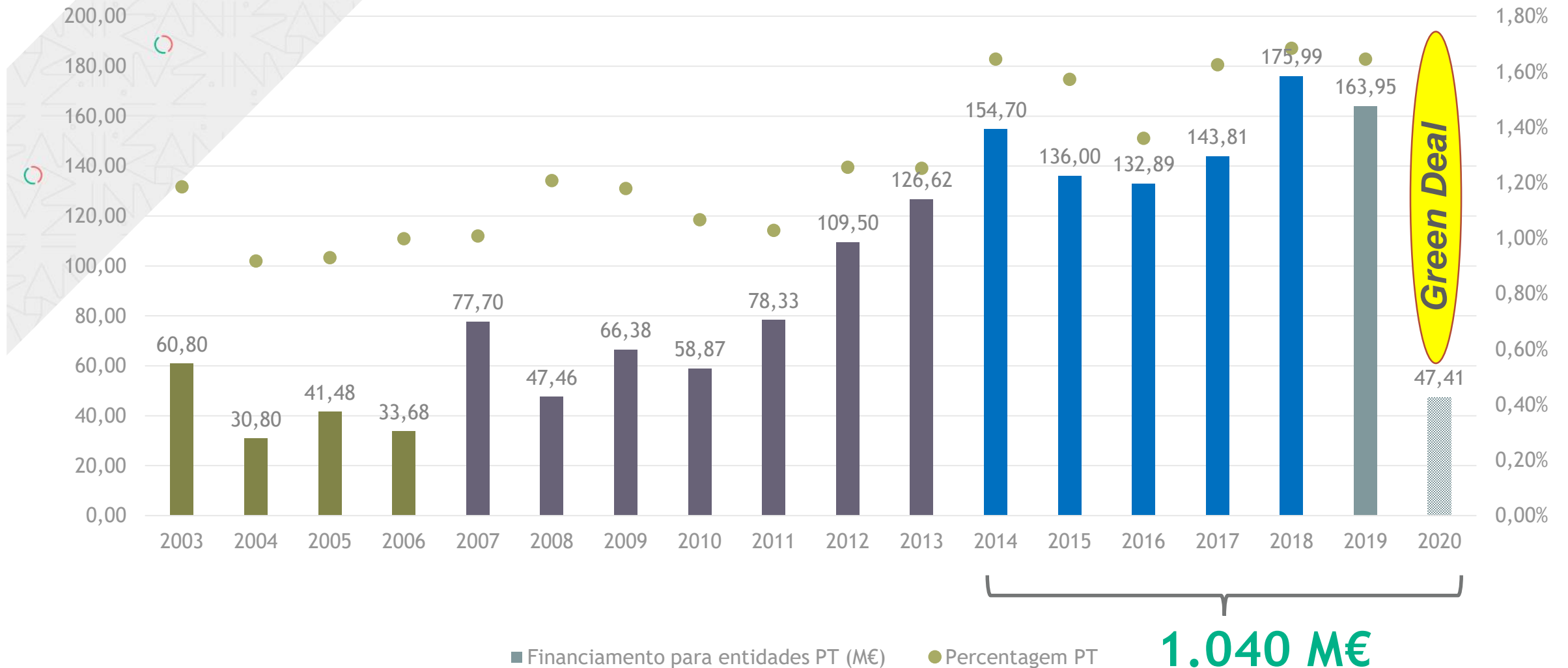
563
M€

60
M€

23 participants got **60%** of the total EU funding!



EVOLUTION OF PORTUGUESE PARTICIPATION





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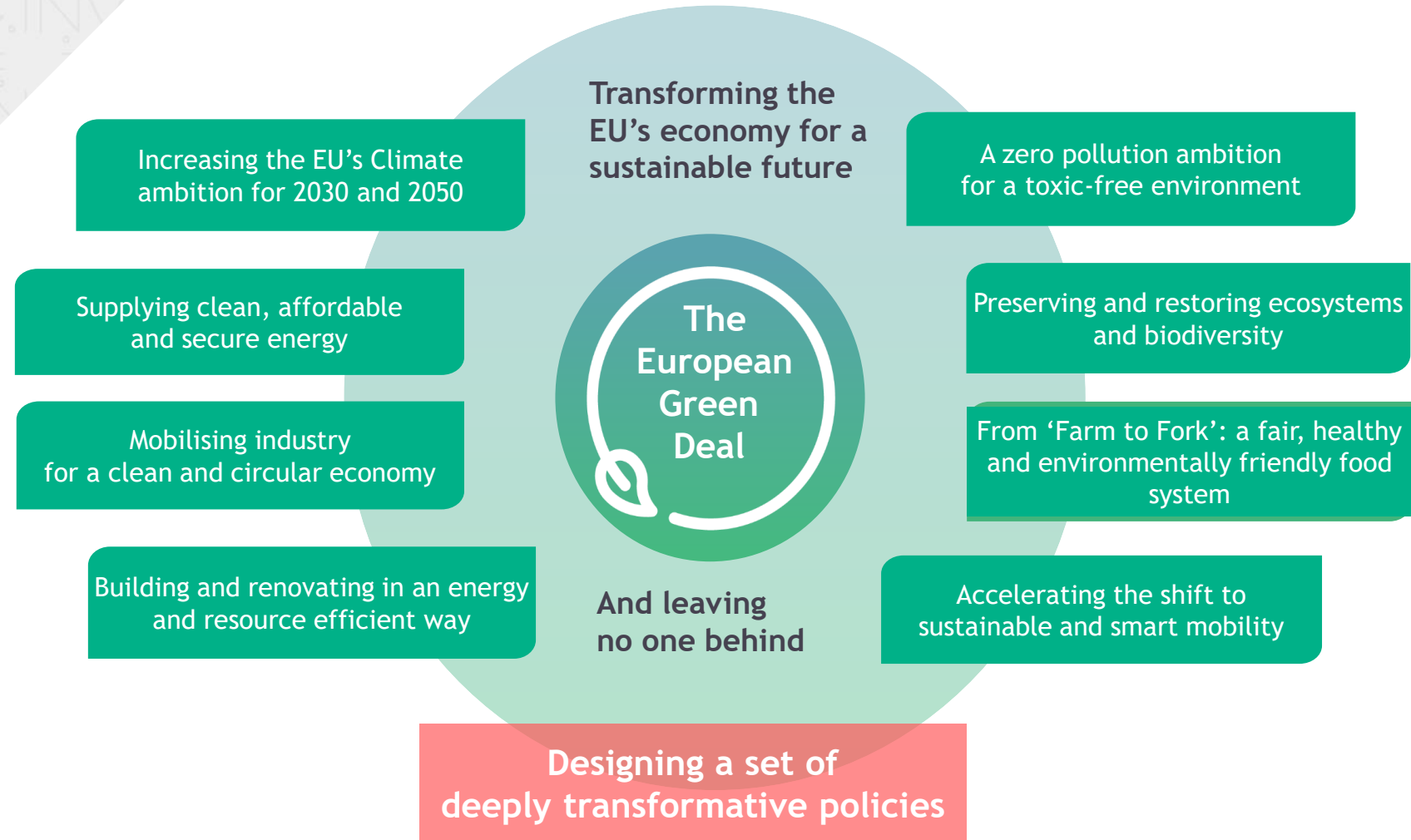


**EUROPEAN
GREEN DEAL CALL 2020**

NOW OPEN - CLOSES 26 JANUARY 2021!



THE EUROPEAN GREEN DEAL



***Our
European
Growth
Strategy***

U. v.d. Leyen

**THE EU AS A
GLOBAL LEADER**

**A EUROPEAN
CLIMATE PACT**



THE EUROPEAN GREEN DEAL CALL

1000 M€ | 19 topics I&I | Focus on big demonstration projects, that produce tangible results - visible to the citizens - in a relatively short time frame

Area 1:
Increasing
Climate Ambition:
Cross
sectoral
challenges

Area 2:
Clean,
affordable
and
secure
energy

Area 3:
Industry
for a
clean and
**circular
economy**

Area 4:
Energy
and
resource
**efficient
buildings**

Area 5:
Sustainable
and **smart
mobility**

Area 6:
**Farm to
Fork**

Area 7:
**Ecosystems
and
Biodiversity**

Area 8:
**Zero-
pollution,**
toxic free
environment

Area 9: Strengthening our **knowledge** in support of the European Green Deal

Area 10: **Empowering citizens** for the transition towards a climate neutral, sustainable Europe

Area 11: **International cooperation**

Launch of call: september 2020

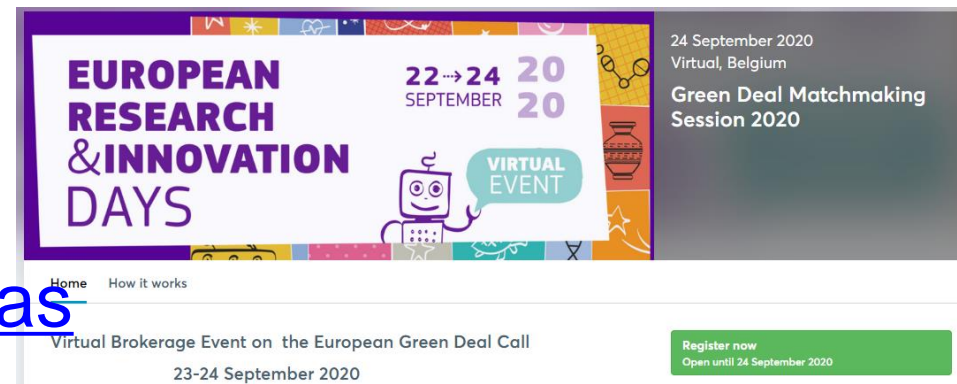
Deadline: 26 january 2021



TIMELINE AND DATES TO REMEMBER

- Launch of the call: 18 September 2020
- **Deadline of the call: 26 January 2021**
- Official Launch by the Commission at [R&I Days](#) - virtual event 22-24 Sept
- **InfoDay** dedicated to the EU Green Deal on the 23rd Sept
- **Brokerage event** dedicated to the EU Green Deal on the 24th Sept

[REGISTER and
make a pitch with your ideas](#)





CONTRIBUTION OF THE EU GREEN DEAL FOR THE MISSIONS IN HORIZON EUROPE

Adaptation to climate change, including
societal transformation

Board: Helena Freitas, UCoimbra
Assembly: Susana Viegas, ULisboa e Élio Sucena, ULisboa

Healthy oceans,
seas, coastal and
inland waters

Board: Tiago Pitta e Cunha, Fundação Azul

**Mission
Areas**

Cancer

Board: Pedro Pita Barros, UNova
Assembly: Fátima Carneiro, UPorto e
M^a Céu Machado, ULisboa

Climate-neutral and
smart cities

Board: Paulo Ferrão, IST

Soil health and food

Board: Teresa Pinto Correia, UÉvora
Assembly: Ana Marta Paz, INIAV



HORIZON EUROPE: MISSIONS

R&I Missions

Connecting to citizens: Missions will relate EU's research and innovation to society and citizens' needs, with strong visibility and impact

A mission will consist of a portfolio of actions intended to achieve **a bold and inspirational as well as measurable goal** within a set timeframe, with impact for science and technology, society and citizens that goes beyond individual actions.

Horizon Europe proposal defines mission characteristics and criteria

Specific missions will be **co-designed with Member States, stakeholders and citizens** and programmed within the Global Challenges and Industrial Competitiveness pillar (drawing on inputs from other pillars)





AGÊNCIA NACIONAL
DE INOVAÇÃO



HORIZON EUROPE | 2021-2027

get ready for the future horizon

HORIZON EUROPE (2021-2027)

+ missions
+ partnerships

Pillar 1

Excellent Science

European Research Council

Marie Skłodowska-Curie
Actions

Research Infrastructures

Pillar 2

Global Challenges and
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



HORIZON EUROPE: CLUSTERS IN PILLAR II

Clusters	Areas of intervention	
Health	<ul style="list-style-type: none">• Health throughout the life course• Non-communicable and rare diseases• Tools, technologies and digital solutions for health and care, including personalised medicine	<ul style="list-style-type: none">• Environmental and social health determinants• Infectious diseases, including poverty-related and neglected disease• Health care systems
Culture, creativity and inclusive society	<ul style="list-style-type: none">• Democracy and Governance• Social and economic transformations	<ul style="list-style-type: none">• Culture, cultural heritage and creativity
Civil security for society	<ul style="list-style-type: none">• Disaster-resilient societies• Protection and Security	<ul style="list-style-type: none">• Cybersecurity
Digital, Industry and space	<ul style="list-style-type: none">• Manufacturing technologies• Advanced materials• Next generation internet• Circular industries• Space, including Earth Observation• Emerging enabling technologies	<ul style="list-style-type: none">• Key digital technologies, including quantum technologies• Artificial Intelligence and robotics• Advanced computing and Big Data• Low-carbon and clean industry• Emerging enabling technologies
Climate, Energy and Mobility	<ul style="list-style-type: none">• Climate science and solutions• Energy systems and grids• Communities and cities• Industrial competitiveness in transport• Smart mobility	<ul style="list-style-type: none">• Energy supply• Buildings and industrial facilities in energy transition• Clean, safe and accessible transport and mobility• Energy storage
Food, bioeconomy, natural resources, agriculture and environment	<ul style="list-style-type: none">• Environmental observation• Agriculture, forestry and rural areas• Circular systems• Food systems	<ul style="list-style-type: none">• Biodiversity and natural resources• Seas, oceans and inland waters• Bio-based innovation systems in the EU Bioeconomy



HORIZON EUROPE: NOVELTIES

Lessons Learned from Horizon 2020 Interim Evaluation

Key Novelties in Horizon Europe



Support breakthrough innovation



European Innovation Council



Create more impact through mission-orientation and citizens' involvement



R&I Missions



Strengthen international cooperation



Extended association possibilities



Reinforce openness



Open science policy



Rationalise the funding landscape



New approach to Partnerships



HORIZON EUROPE: PARTNERSHIPS

New generation of objective-driven and more ambitious partnerships in support of agreed EU policy objectives

Key features

- Simple architecture and toolbox
- Coherent life-cycle approach
- Strategic orientation

Co-programmed

Based on Memoranda of Understanding / contractual arrangements; implemented independently by the partners and by Horizon Europe

Co-funded

Based on a joint programme agreed by partners; commitment of partners for financial and in-kind contributions & financial contribution by Horizon Europe

Institutionalised

Based on long-term dimension and need for high integration; partnerships based on Articles 185 / 187 of TFEU and the EIT-Regulation supported by Horizon Europe



HORIZON EUROPE: PARTNERSHIPS

Cluster 1	Cluster 4	Cluster 5	Cluster 6	Other
EU-Africa Global Health Partnership	High Performance Computing	Transforming Europe's rail system	Accelerating farming systems transition: agro-ecology living labs and research infrastructures	Innovative SMEs
Innovative Health Initiative	Key Digital Technologies	Integrated Air Traffic Management	Animal health: Fighting infectious diseases	European Science Cloud (EOSC)
European partnership for chemicals risk assessment	Smart Networks and Services	Clean Aviation	Environmental Observations for a sustainable EU agriculture	+ 8 existing EIT KICs
Pre-clinical/clinical health research	AI, data and robotics	Clean Hydrogen	Rescuing biodiversity to safeguard life on Earth	+ 2023 Cultural and Creative Industries
Large-scale innovation and transformation of health systems in a digital and ageing society	Clean Steel - Low Carbon Steelmaking	Built environment and construction	A climate neutral, sustainable and productive Blue Economy	
Personalised Medicine	European Metrology	Towards zero-emission road transport (2ZERO)	Safe and Sustainable Food System for People, Planet & Climate	
Rare Diseases	Made in Europe	Mobility and Safety for Automated Road Transport	Circular bio-based Europe	
+ AntiMicrobial Resistance	Carbon Neutral and Circular Industry	Batteries: Towards a competitive European industrial battery value chain	Water4All: Water security for the planet	
+ Pandemic Preparedness	Global competitive space systems	Clean Energy Transition	+ Smart Cities and communities	
		+ Zero emission waterborne transport		

44+5



HORIZON EUROPE: EUROPEAN INNOVATION COUNCIL (EIC)

The EIC will support innovations with breakthrough and disruptive nature and scale up potential that are too risky for private investors.

**European
Innovation Council**

Helping innovators create markets of the future,
leverage private finance, scale up their companies

Two complementary instruments bridging the gap from idea to investable project



Pathfinder: grants
(from early technology
to pre- commercial)

Accelerator:
grants & blended finance
(from pre-commercial
to market & scale-up)



HORIZON EUROPE: EUROPEAN INNOVATION COUNCIL (EIC)



PATHFINDER: **Researchers, technologists**

- ▶ For radically new technologies emerging from collaborative research
- ▶ Grant funding of up to €4 million (100% of costs)
- ▶ From proof of concept to demonstration of commercial viability
- ▶ Access to EIC coaching and mentoring services
- ▶ Majority of funding is open (no predefined themes). Strategic breakthrough technologies are also supported (challenge-based)



ACCELERATOR: **Start-ups, SMEs and entrepreneurs**

- ▶ For development and scaling up of high risk innovations by startups and SMEs
- ▶ Grant funding of up to €2.5 million (70% of costs)
- ▶ Option of equity investment of up to €15 million
- ▶ Access to EIC coaching and mentoring services, pitches with corporates, VCs, etc
- ▶ All funding is open (no predefined thematic areas)

*Research and
Innovation*

Out H2020/HE team!



MAFALDA
DOURADO



ANABELA
CARVALHO



ALEXANDRE
MARQUES



ANA
SUTCLIFFE



CRISTIANA
LEANDRO



CRISTINA
GOUVEIA



FERNANDO
CARVALHO



LUÍS
MAIA



MARGARID
A SANTOS



MARIA JOÃO
FERNANDES



MARTA
CANDEIAS



NATÁLIA
DIAS



SOFIA
AZEVEDO

SUPPORT TO THE HORIZON 2020
INFORM, ADVISE AND CONNECT

Do contact them!



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DE INOVAÇÃO



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