

FCT

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



HORIZONTE 2020: Economia Circular e Cidades Sustentáveis

Participação Nacional

Anabela Carvalho | Cristina Gouveia

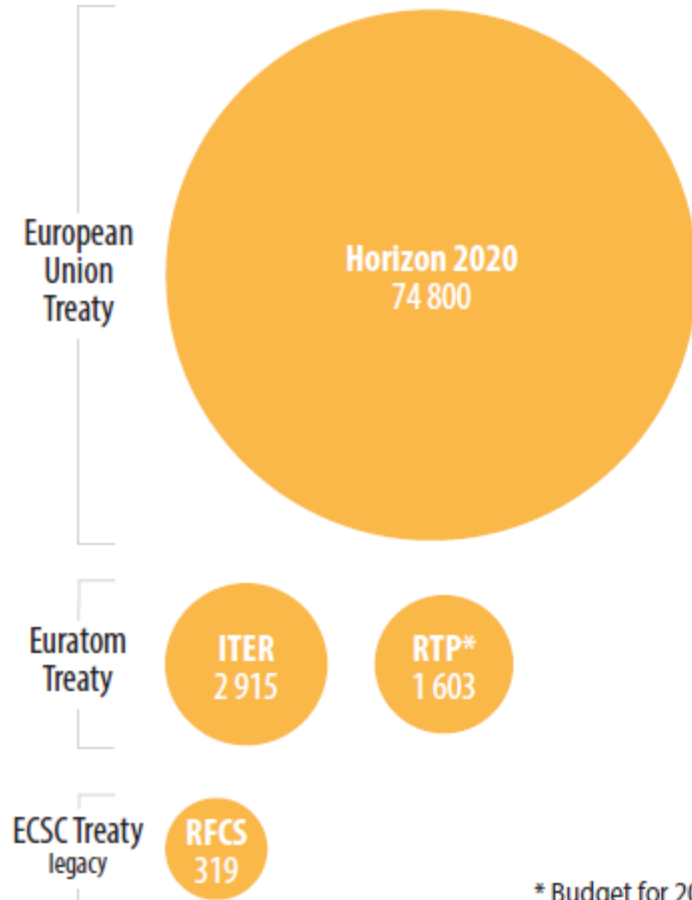
Pontos de Contacto Nacional do Horizonte 2020



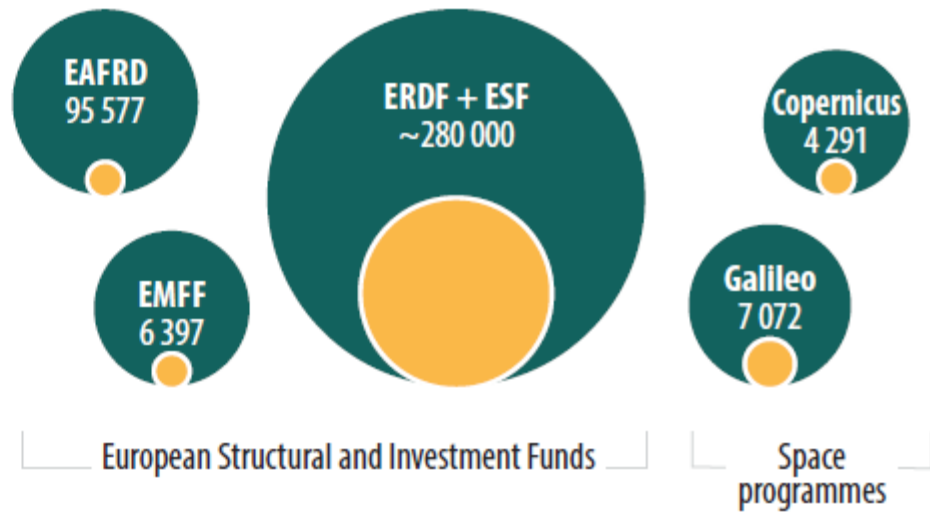
€120B of EC funding for research and
innovation activities 2014-2020

European Funding Programs for Research & Innovation

PROGRAMMES FULLY DEDICATED TO SUPPORTING R&I ACTIVITIES



PROGRAMMES INCLUDING FUNDS FOR R&I ACTIVITIES



PROGRAMMES CONNECTED TO R&I ACTIVITIES



THE EU FRAMEWORK PROGRAMME
FOR RESEARCH AND INNOVATION

HORIZON 2020



EXCELLENT SCIENCE
COMPETITIVE INDUSTRIES
BETTER SOCIETY



2380

2392

2405

2417

2422

2427

2381

2393

2406

2418

2423

2428

2382

2394

2407

2419

2424

2429

2383

2396

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2384

2397

2410

2421

2426

2431

Excellent Science ~ 24 400 M€

- **European Research Council**
Frontier Research by the best individual teams
- **Future and Emerging Technologies**
Collaborative research to open new fields of innovation
- **Marie Skłodowska-Curie Actions**
Opportunities for training and career development
- **Research Infrastructures**
(including e-infrastructure)
Ensuring access to world class facilities

Bottom up

Industrial Leadership ~ 17 800 M€

- **Leadership in enabling and industrial technologies**
Space, ICT, NMBP
(*nanotechnologies, advanced materials, biotechnology, manufacturing*)
- **Access to Risk finance**
Leveraging private finance and venture capital for research
- **Innovation in SMEs**
Fostering all forms of innovation in all types of SMEs

Top down

Societal Challenges ~ 29 700 M€

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture, marine and maritime research & the bioeconomy
3. Secure, clean and efficient energy
4. Smart, green and integrated transport
5. Climate action, environment, resource efficiency and raw materials
6. Inclusive, innovative and reflective societies
7. Security society

Top down

European Institute of Innovation and Technology (EIT) (~2700 M€)

Spreading Excellence and Widening Participation (~1900 M€)

Science with and for Society (~1600 M€)

Joint Research Centre (JRC)

Programa de Trabalho

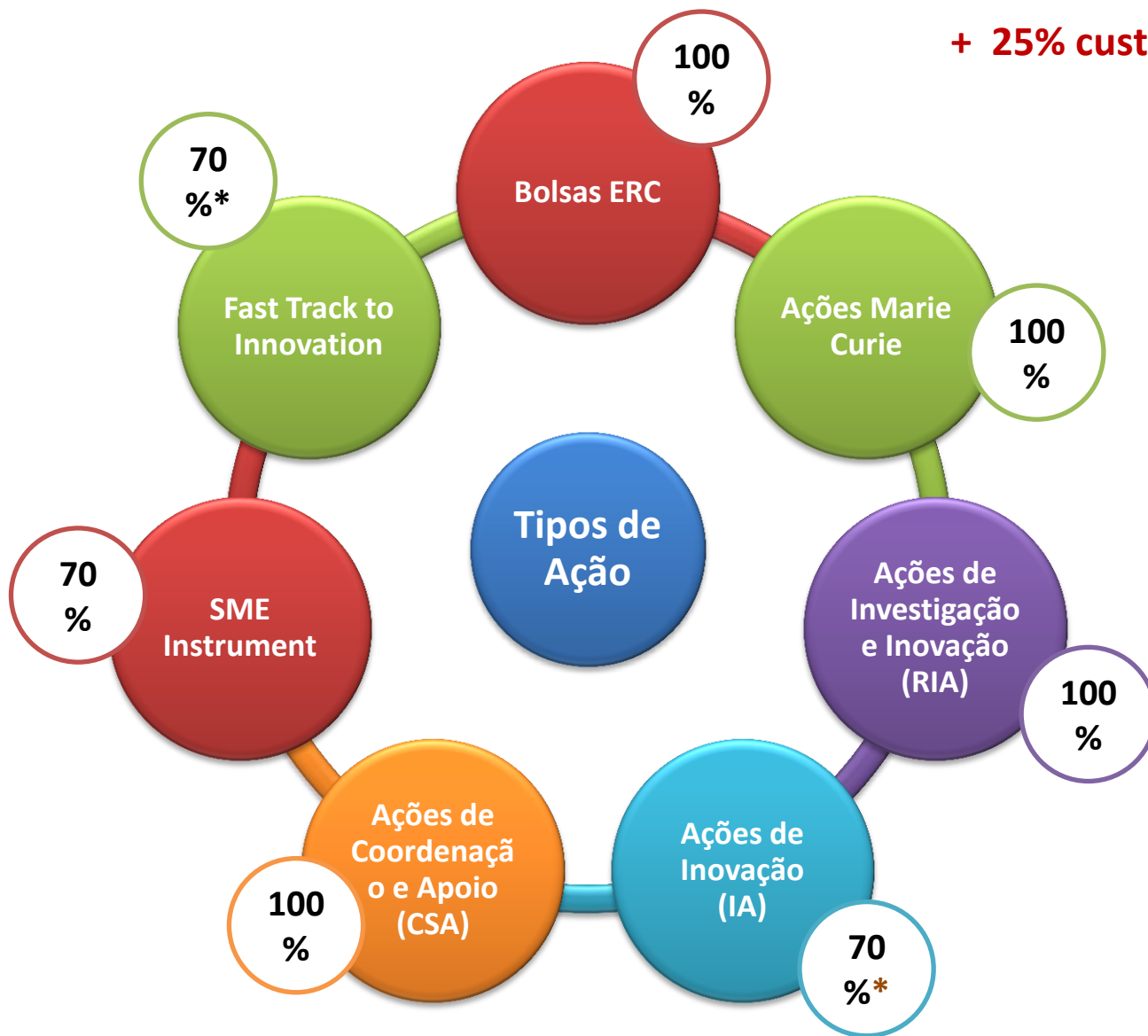
- Bienal (2018-2019 + 2020)

Tópicos

- Desafio**
- Foco**
- Impacte esperado**

TIPOS DE AÇÃO & TAXAS FINANCIAMENTO

+ 25% custos indiretos



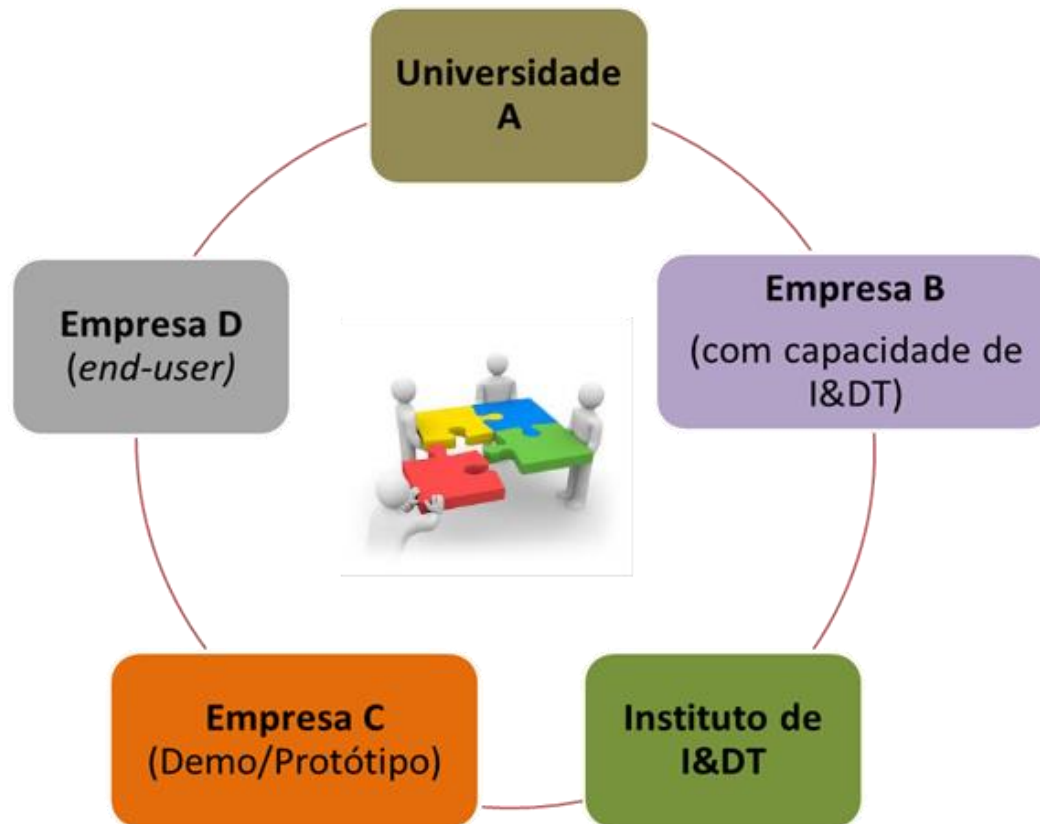
**Exceção: a taxa de financiamento para entidades sem fins lucrativos é 100%)*

Como Participar





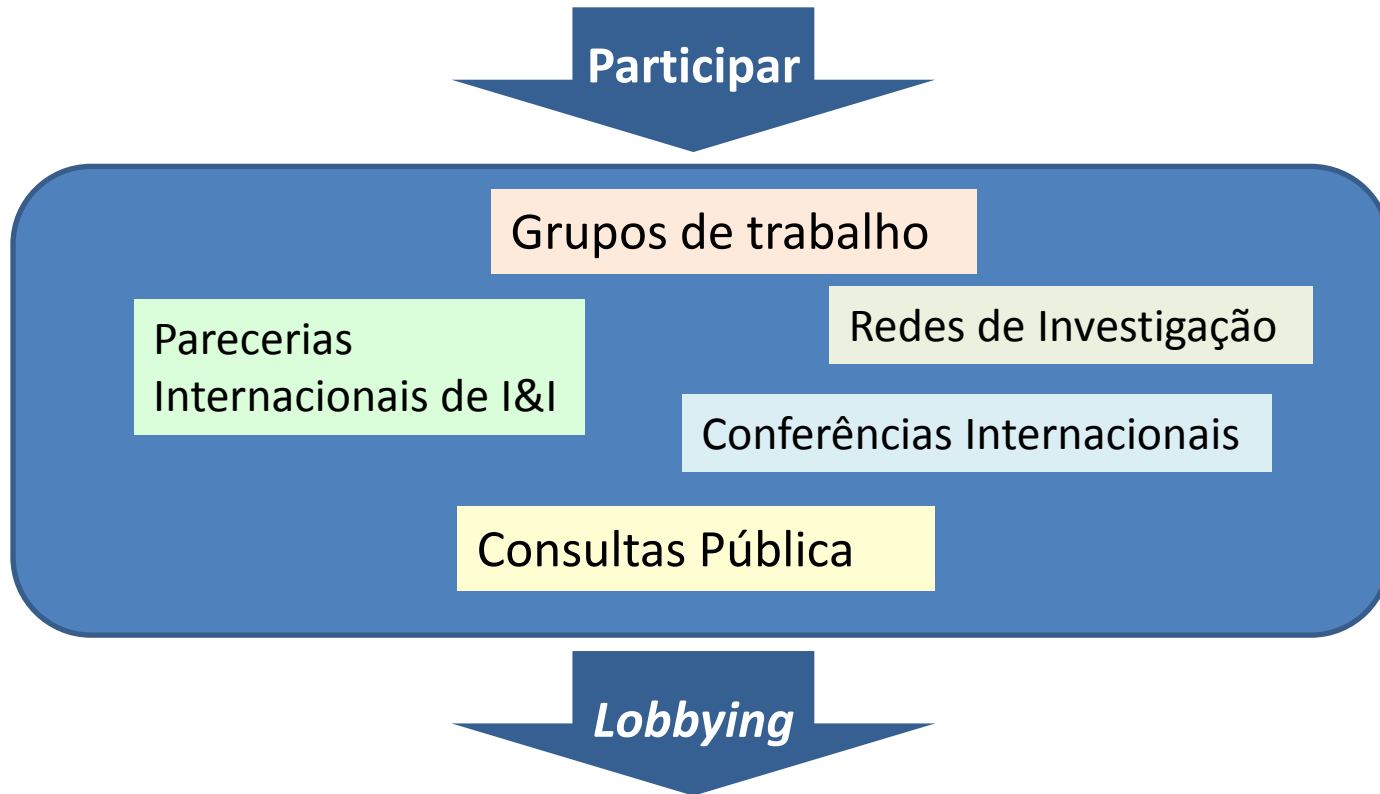
Mínimo de 3 entidades jurídicas independentes de 3 EM ou associados diferentes





Muito antes de pensar em financiamento deveríamos pensar em estratégias de internacionalização e networking

Construir activamente uma rede internacional de parcerias



Redação de *position papers* que influenciam as prioridades de financiamento da UE

Iniciativas que promovem o *networking* e influenciam os programas de trabalhos



- **COST Actions**

European Cooperation in Science and Technology

Ações COST na FCT

- **Mobilidade Transnacional**

Acordos Bilaterais da FCT

+ oportunidades de *lobbying*



- **EIP – Parcerias Europeias de Inovação**

- EIP Água (alicerçada em Grupos de Ação)

- EIP Matérias-Primas (alicerçada nos Ações de Compromisso)

- EIP Smart Cities and Communities

- **Grupos de Trabalho das JPI – Joint Programming Initiatives**

- JPI Água

- JPI FACCE (Agricultura, segurança alimentar e alterações climáticas)

- **ETP – Plataformas Tecnológicas Europeia**

- WssTP (Água e saneamento)

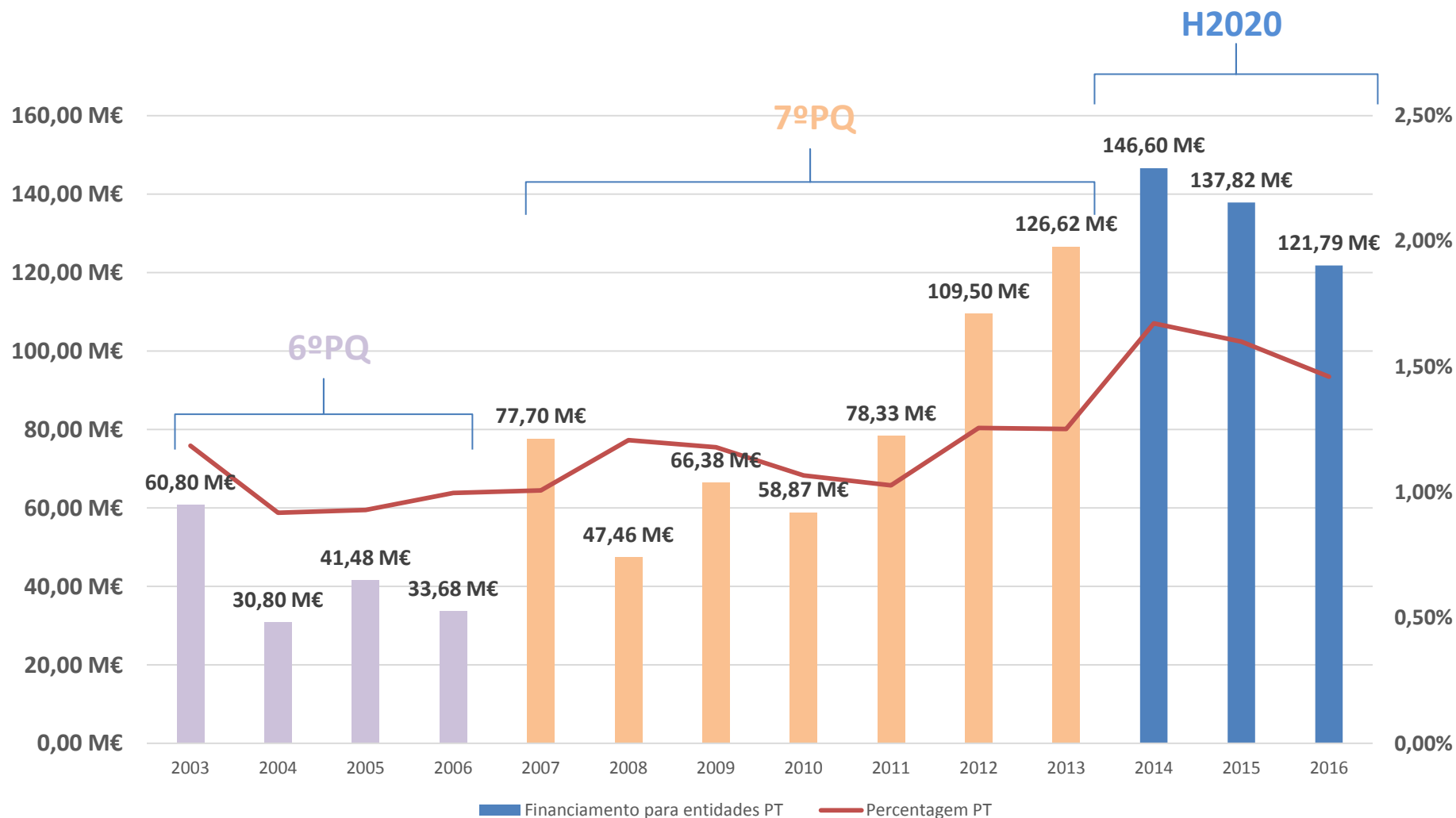
- Plants

- Forest-Based

- Organics

A Participação Nacional 2014-2017

PARTICIPAÇÃO PT: FP6 → H2020



Dados de Maio 2017

✓ **Propostas: 7203**

✓ **Projetos : 953**

✓ **Coordenações : 259**

✓ **Participações: 1387**

✓ **Total PT funding: 434,82 M€**

Dados: Calls 2014 – 2017*

* Primeiros resultados incluídos (Maio 2017)

113M€ para empresas nacionais

Dados: Calls 2014 – 2017*

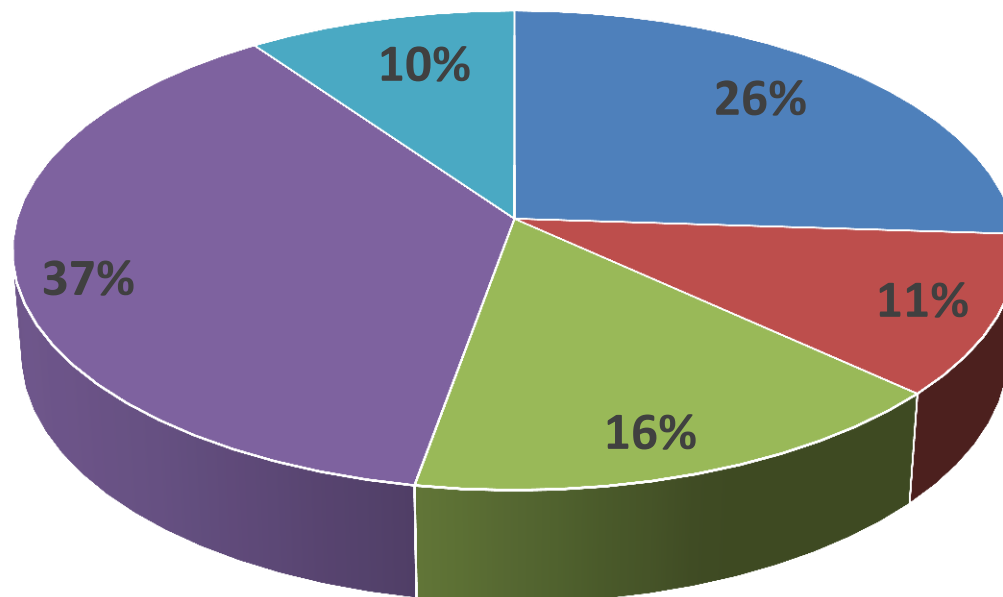
* Primeiros resultados incluídos (Maio 2017)



Gabinete de Promoção do Programa Quadro ID&I



DISTRIBUIÇÃO DO FINANCIAMENTO POR TIPO DE ENTIDADE



■ Ensino superior

■ Grandes empresas

■ PME

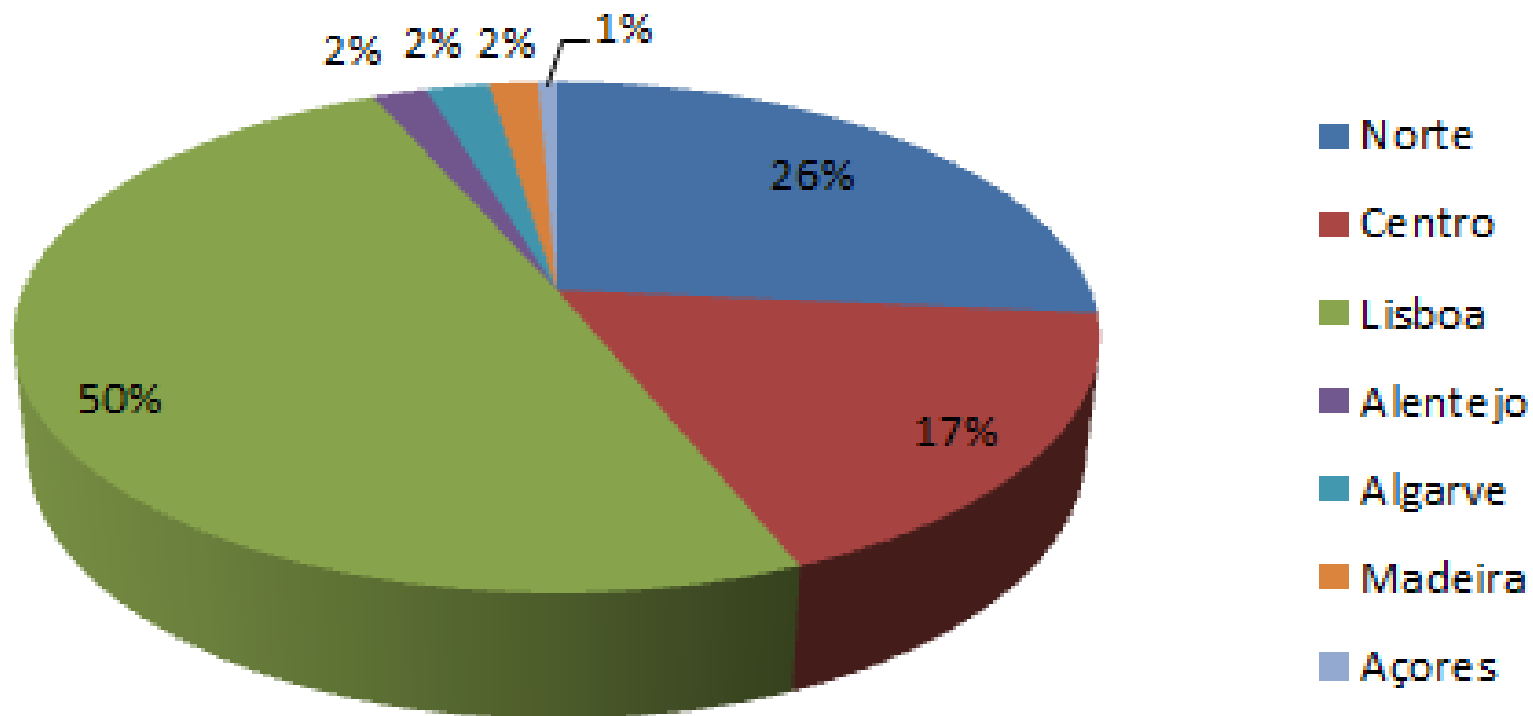
■ Centros de investigação

■ Outros

Dados Abril 2017

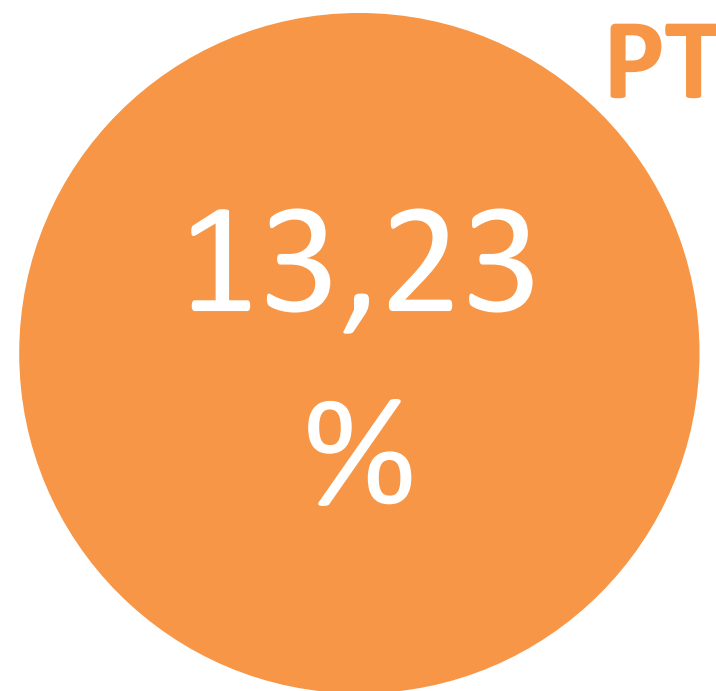
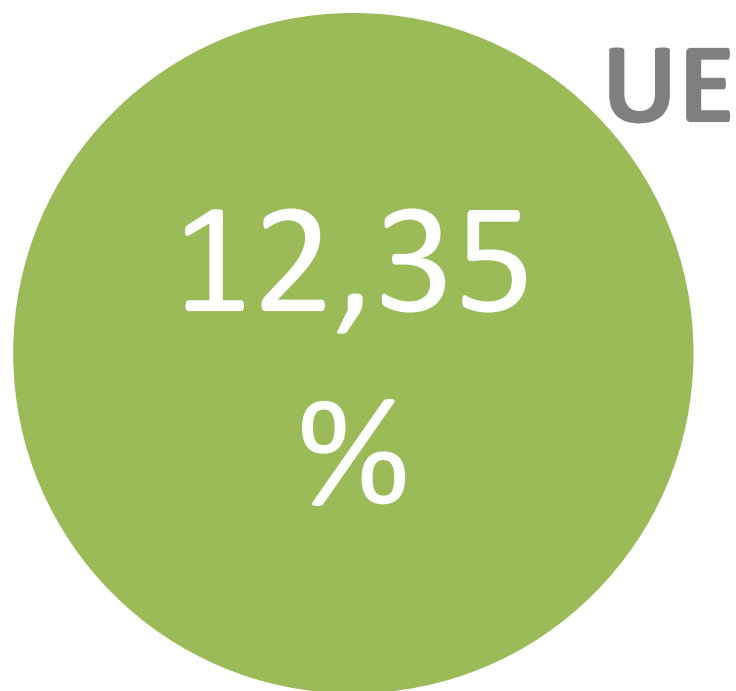
PARTICIPAÇÃO PT NO H2020 (2014 – 2016)

FINANCIAMENTO CAPTADO POR REGIÃO (% NUT II) 2014-2016



Dados Abril 2017

PARTICIPAÇÃO PT NO H2020 (2014 – 2017)



Taxa de sucesso – número de propostas

Dados Maio 2017



Economia Circular e Cidades Sustentáveis

Ao nível **Europeu, regional e nacional** existem vários programas que podem apoiar a I&I na área **economia circular e cidades sustentáveis**



Gabinete de Promoção do Programa Quadro ID&I



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Nanotechnologies, advanced materials, biotechnology, manufacturing

INDUSTRIAL SUSTAINABILITY:

- **SUSTAINABLE PROCESS INDUSTRY (SPIRE)**
- **CATALYSING THE CIRCULAR ECONOMY**
- **EDIFÍCIOS ENERGETICAMENTE EFICIENTES (EEB)**

TRANSFORMING EUROPEAN INDUSTRY

- **BIOTECHNOLOGY**



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Information and Communication Technologies



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**DIGITISING AND TRANSFORMING
EUROPEAN INDUSTRY AND SERVICES**

- **INTEROPERABLE AND SMART
HOMES AND GRIDS**
- **BIG DATA SOLUTIONS FOR
ENERGY**

Smart, green and integrated transport



Luís Maia

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- **MOBILITY FOR GROWTH**
- **CALL EUROPEAN GREEN VEHICLES INITIATIVE**

1. Food security, sustainable agriculture and forestry, marine, maritime and inland water research and the bioeconomy

- **SUSTAINABLE FOOD SECURITY**
 - **ENVIRONMENT AND CLIMATE-SMART FOOD PRODUCTION AND CONSUMPTION**
- **RURAL RENAISSANCE**
 - **ORGANIZING SUSTAINABLE FOOD AND NON-FOOD VALUE CHAINS UNDER CHANGING CONDITIONS**



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1. Secure, clean and efficient energy



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- **ENERGY EFFICIENCY**
 - **BUILDINGS**
 - **MARKET RENOVATION**
 - **HOME RENOVATION SERVICES**
 - **ENERGY SKILLS IN CONSTRUCTION**
 - **SMARTNESS IN BUILDINGS**
 - **ENERGY PERFORMANCE ASSESSMENT**
- **SMART CITIES AND COMMUNITIES**
 - **2 LIGHTHOUSE AND 5 FOLLOWER CITIES**

