



AGÊNCIA NACIONAL  
DE INOVAÇÃO



# NATIONAL PARTICIPATION IN HORIZON 2020

*PATRÍCIA CALADO*



# HORIZON 2020

**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*

**European Innovation Council (EIC)**

Pathfinder – FET OPEN, FET PROACTIVE  
Accelerator – SMEi2

*Bottom up*

**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)



# HOW TO PARTICIPATE?



## Individual

Grants - ERC

SME Instrument

Coordination and Support Actions (CSA)

Prizes

### Elegibility conditions:

- 1 independent legal entity from a Member State or Associated Country
- European Impact

## Collaborative projects

Marie Curie Actions

FET projects

Research and Innovation Actions (RIA)

Innovation Actions (IA)

FTI projects

### Elegibility conditions:

- At least 3 independent legal entities from different Member States or Associated Countries
- European Impact

All kind of legal entities can participate (academia, companies, associations, civil society....) unless otherwise mentioned in the call topic



# COSTS AND ACTIVITIES

## Direct costs:

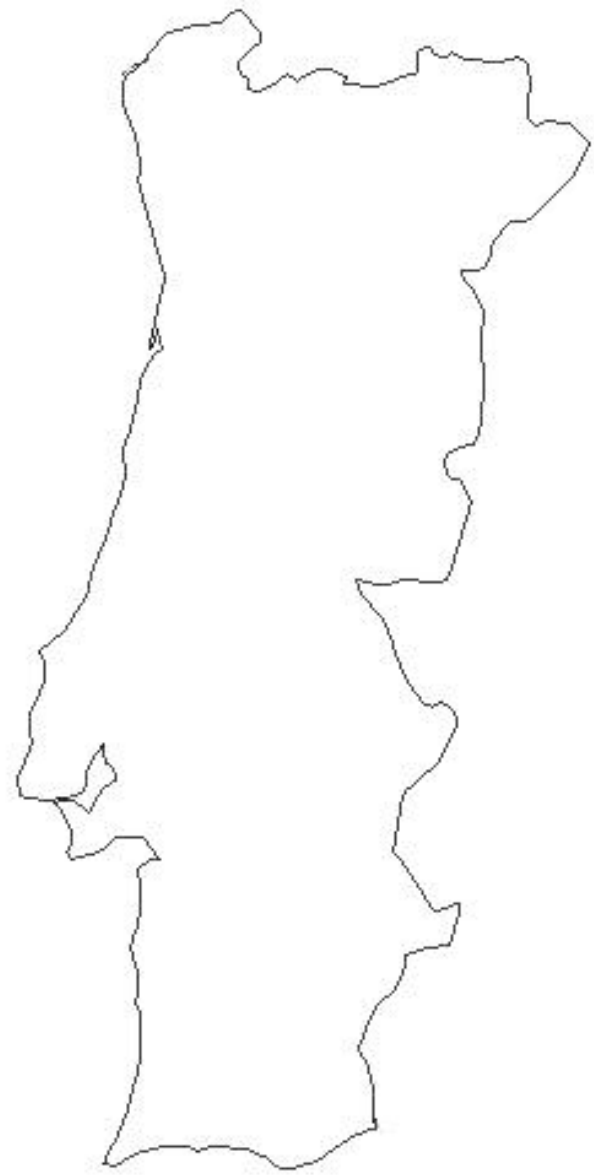
- Human Resources
- Travel
- Equipment (depreciation)
- Consumables



**25% Indirect Costs**

*\*Exception for non-profit organizations - 100%*

# PORTUGAL IS A NET BENEFICIARY OF H2020



**FP6**      **FP7**      **H2020**

**1,33%**      **1,31%**      **1,30%**

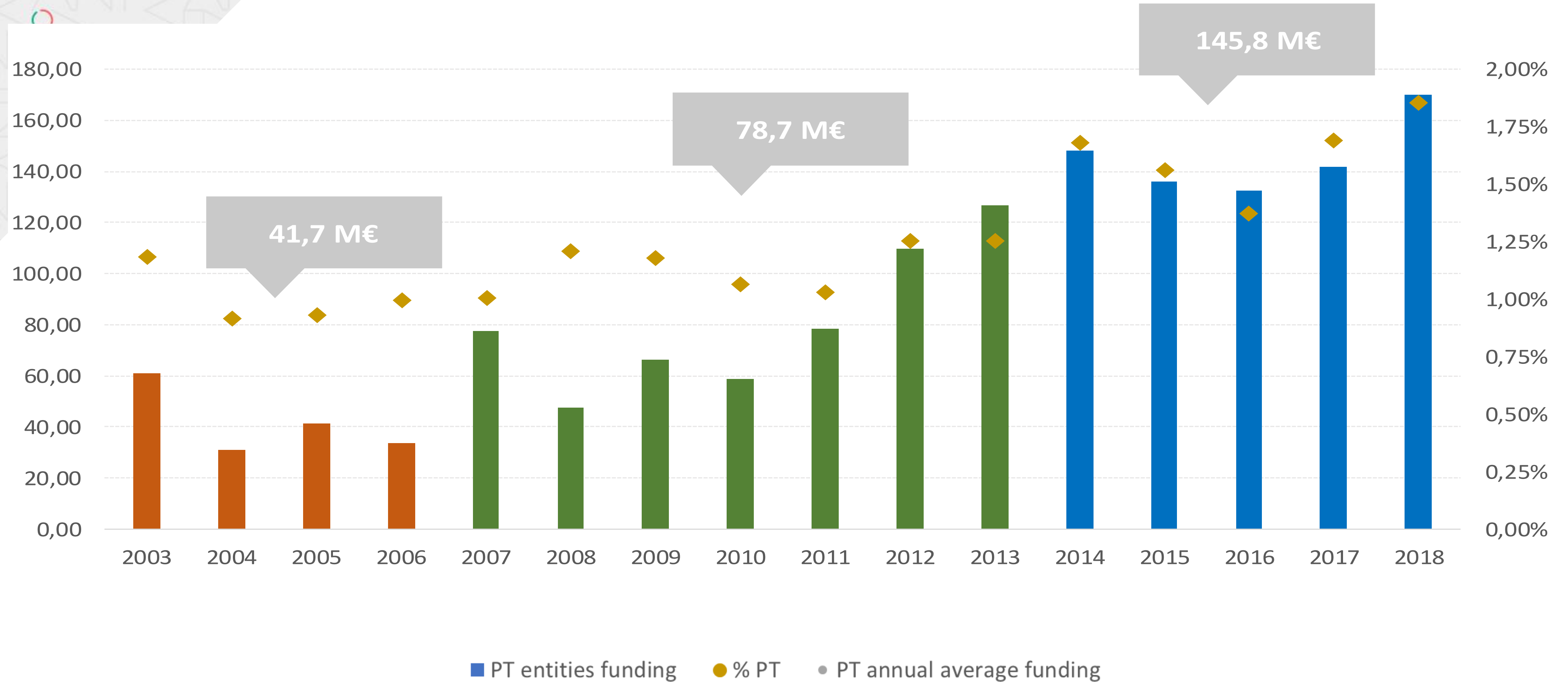
**1,01%**      **1,15%**      **1,65%**



***PT has been a net beneficiary since 2012, during the last 2 years of FP7.***



# PORTUGUESE PARTICIPATION





# PT RESULTS 2014-2018

Proposals: 11334

Projects: 1618

Coordinated projects: 473

Participations: 2348

PT Funding :

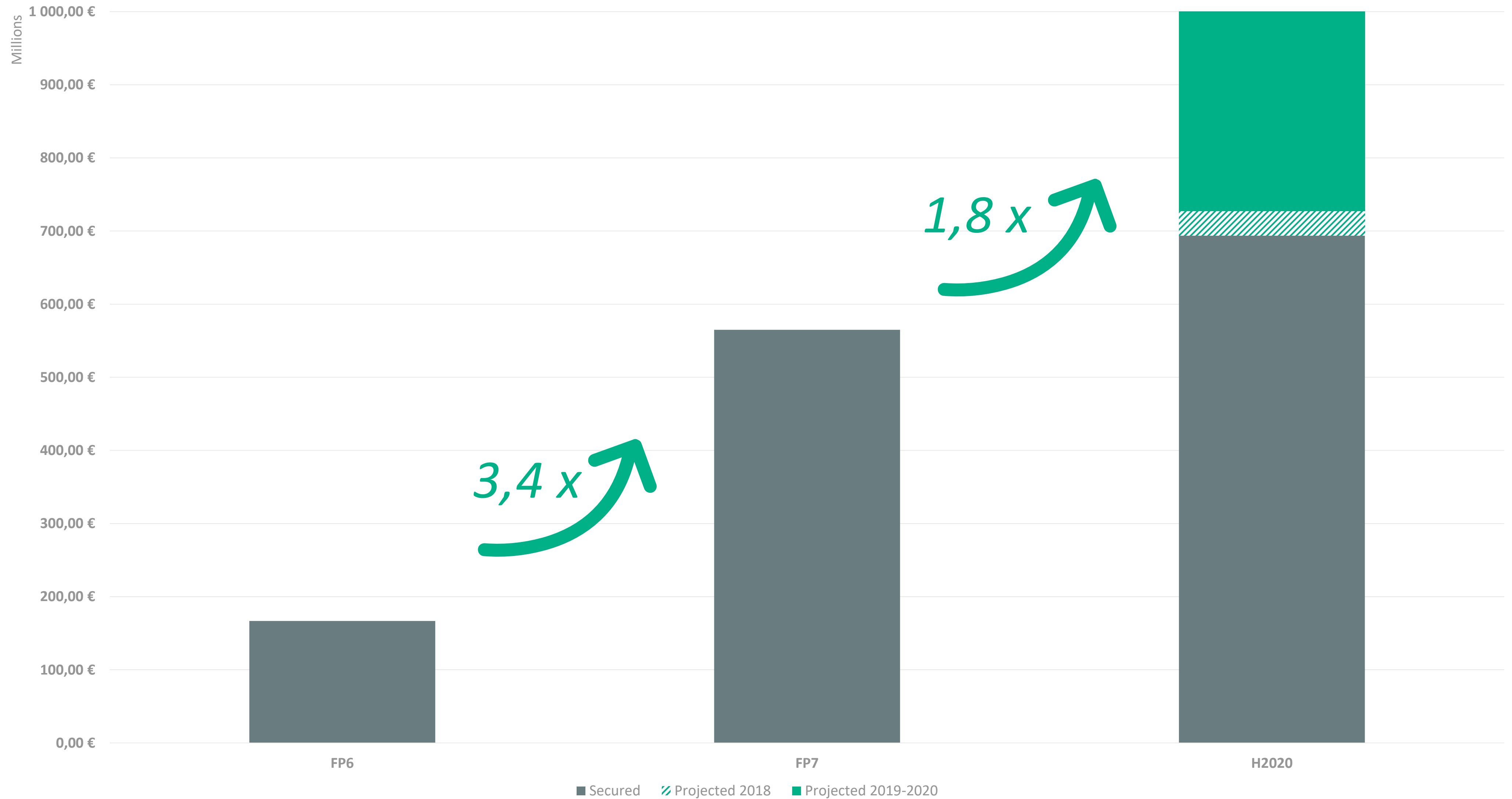
**% PT: 1,65**

**728,91  
M€**

|                  |                               |
|------------------|-------------------------------|
| Higher Education | 198,1 M€                      |
| Research Centers | 273,1 M€                      |
| Industry         | 193,8 M€<br>(SMEs : 117,9 M€) |



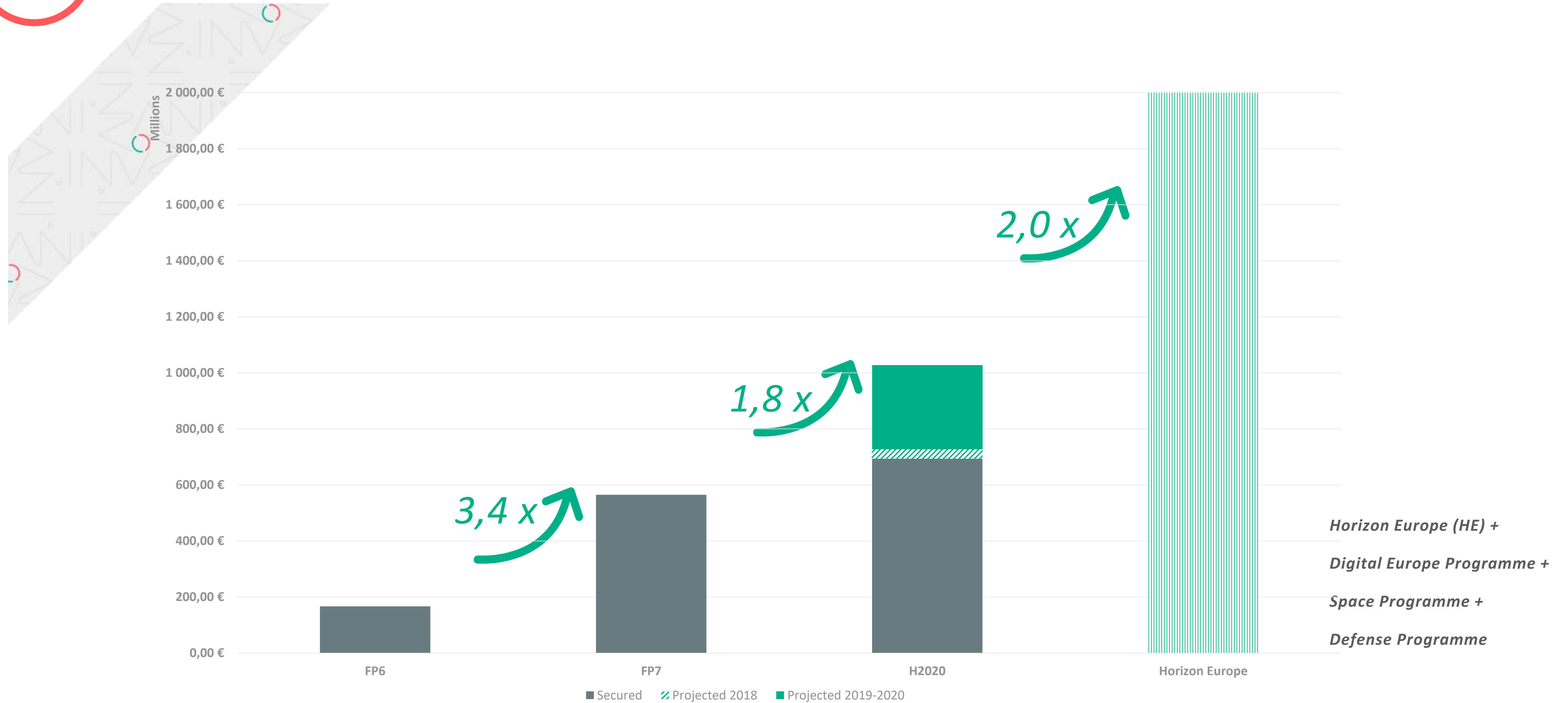
# PT PROJECTION FOR 2020





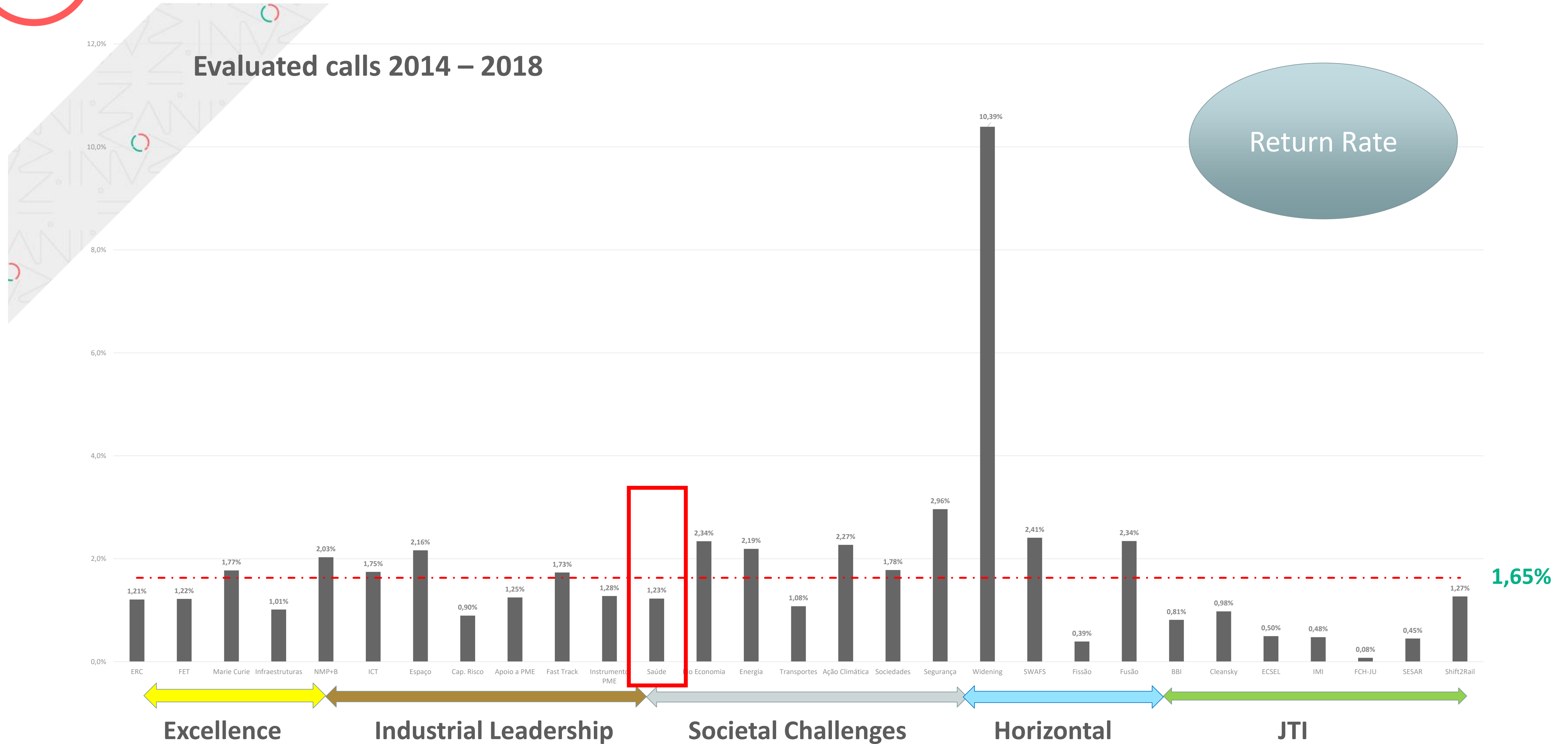


# PT PROJECTION FOR 2027





# PT RESULTS BY THEMATIC AREA





# PT HEALTH RESULTS 2014-2019

Proposals: 574

Projects: 70

Coordinated projects: 4

Participations: 107

Financiamento:

**32 M€**

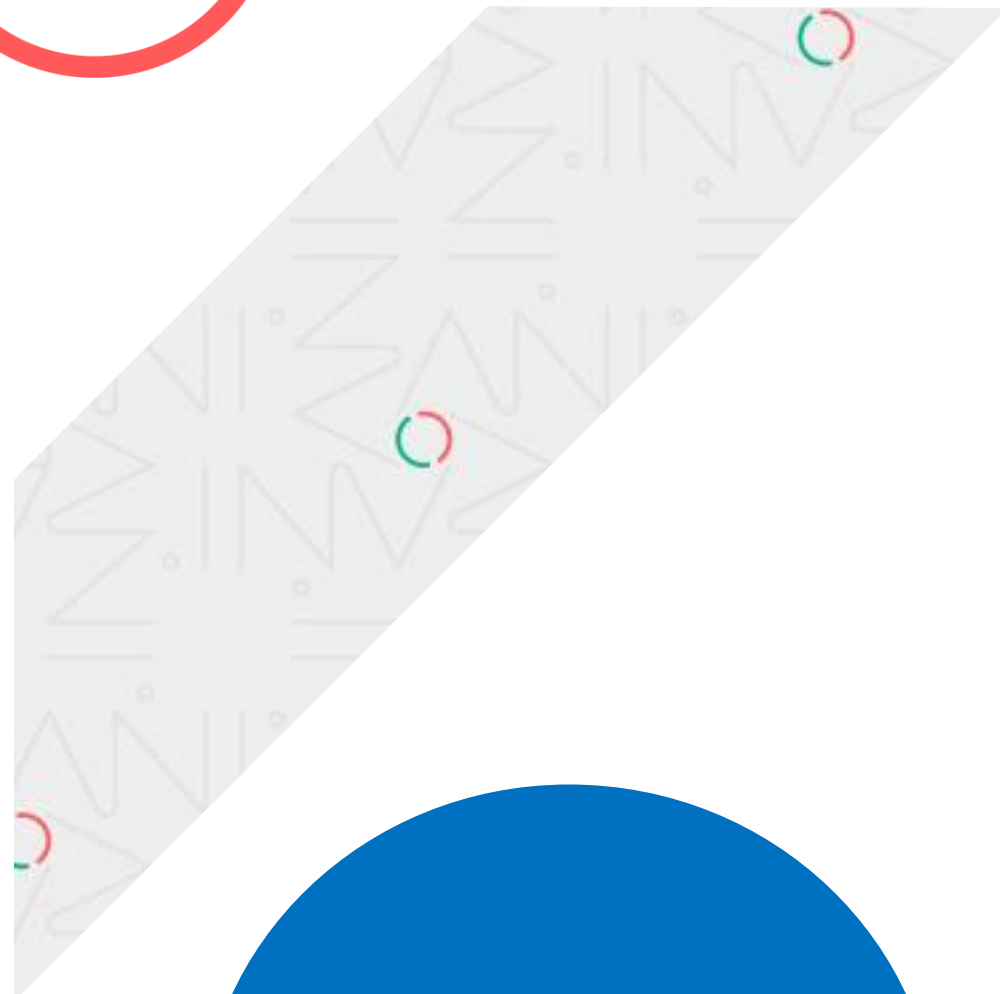
**% Funding: 1,23**

**Success rate: 12,2% (EU 11,4%)**





# HEALTH FUNDING DISTRIBUTION



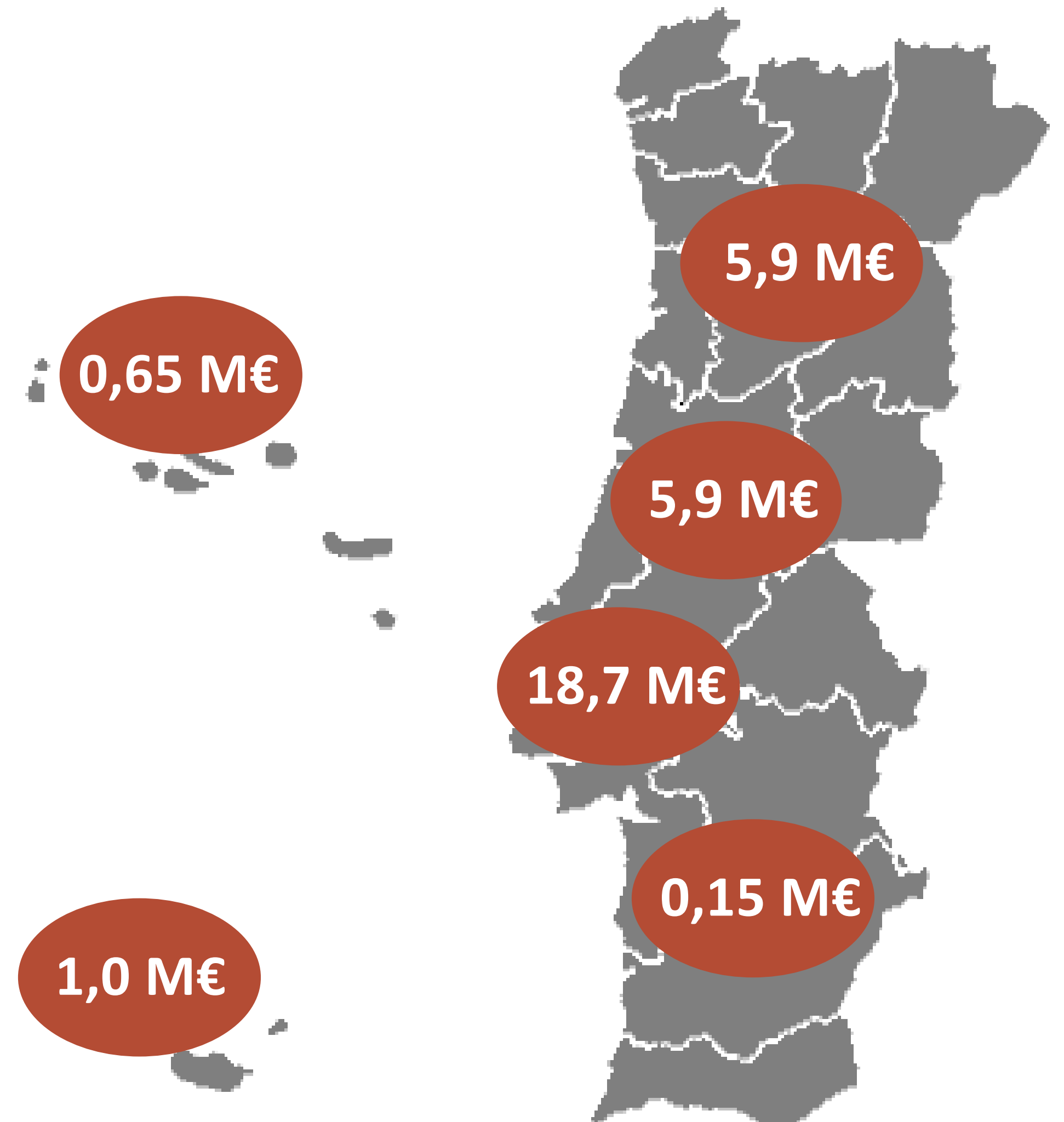
**32 M€**

Higher Education: 8,4 M€

Research Centers: 10,8 M€

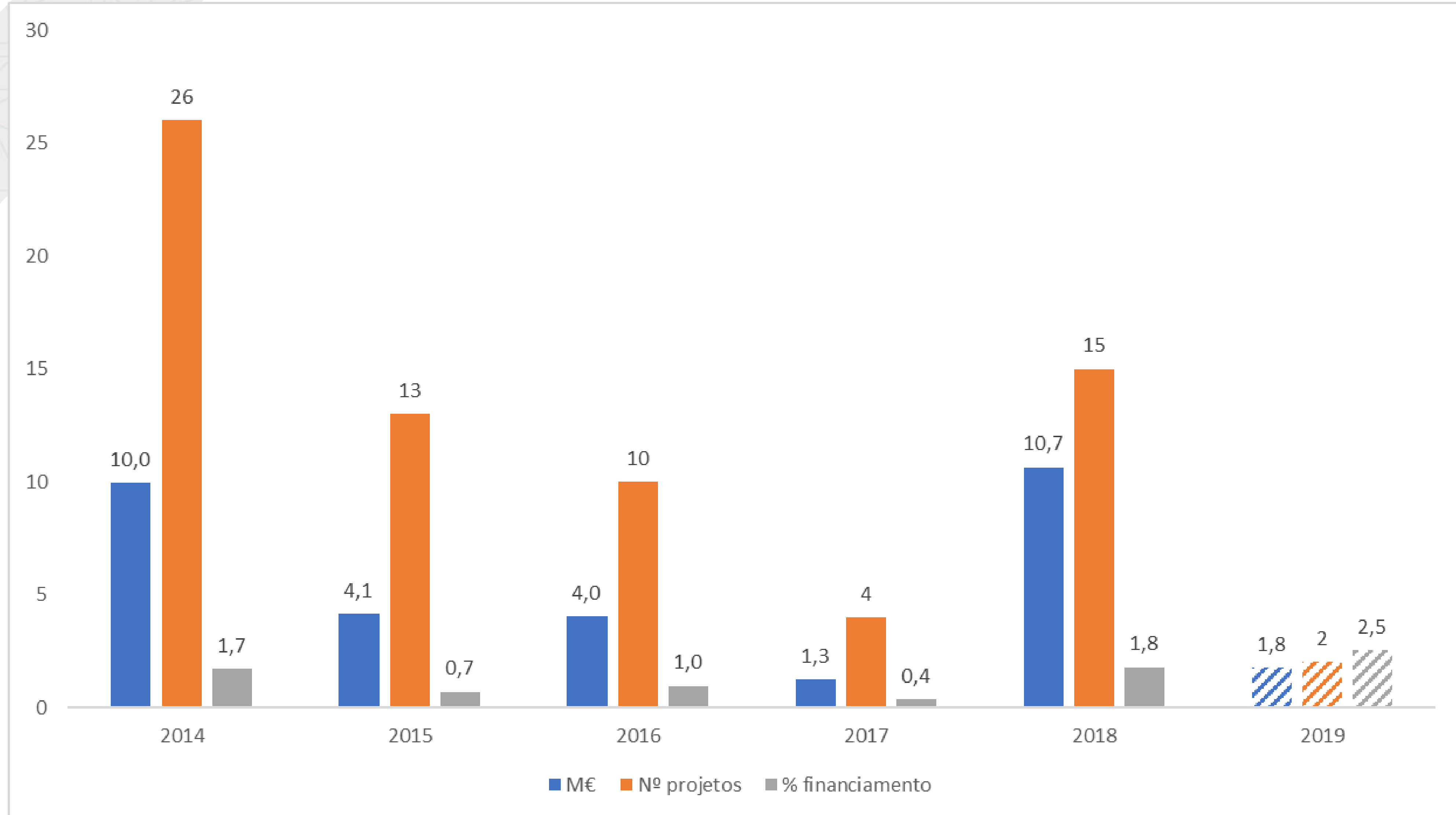
Industry: 6,7 M€ (SMEs : 5 M€)

Others: 5,9 M€





# PT HEALTH PARTICIPATION EVOLUTION





# PT HEALTH TOP PLAYERS

| Entidade        | Nr. Participações | Nr. Coordenações |
|-----------------|-------------------|------------------|
| FCT             | 12                | 0                |
| SPMS            | 6                 | 0                |
| UNL             | 5                 | 0                |
| UC              | 5                 | 2                |
| INESC TEC       | 4                 | 0                |
| INSA            | 4                 | 0                |
| SCMA            | 4                 | 0                |
| AIDFM           | 3                 | 0                |
| UP              | 3                 | 0                |
| ISPUP           | 3                 | 0                |
| CARITAS COIMBRA | 3                 | 0                |

| Entidade  | Contribuição H2020 | Nr. Coordenações |
|-----------|--------------------|------------------|
| UNINOVA   | 2 217 500,00 €     | 1                |
| UC        | 1 988 013,75 €     | 2                |
| IMM       | 1 979 977,46 €     | 1                |
| FCT       | 1 793 792,06 €     | 0                |
| INESC TEC | 1 706 500,00 €     | 0                |
| UNL       | 1 443 626,25 €     | 0                |
| SRETC     | 1 049 500,00 €     | 0                |
| AIDFM     | 1 031 395,31 €     | 0                |
| ISPUP     | 988 325,00 €       | 0                |
| SPMS      | 982 469,39 €       | 0                |
| UP        | 926 990,38 €       | 0                |
| IPATIMUP  | 910 162,50 €       | 0                |

INSA  
SCMA  
CARITAS COIMBRA

UNINOVA  
SRETC  
IPATIMUP

Academia

Social Sector

Hospitals?

Municipalities?

Research  
Institutes

SMEs?

Primary Care?

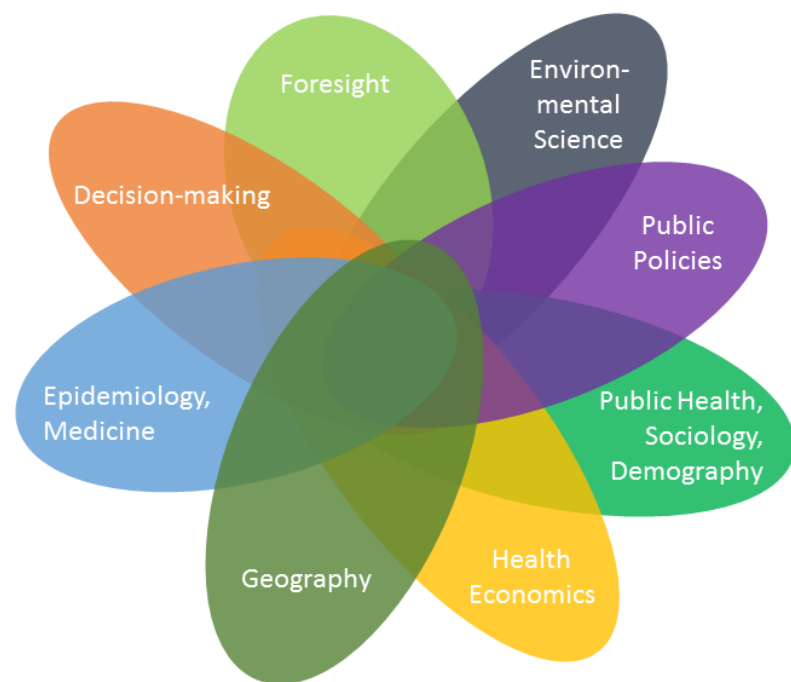


# PT HEALTH COORDINATORS



- Shaping EUROpean policies to promote HEALTH equity
- University of Coimbra
- Instrument: RIA
- Duration: 36 months
- Total EC contribution: 2.999.482 €

## POPULATION HEALTH APPROACH



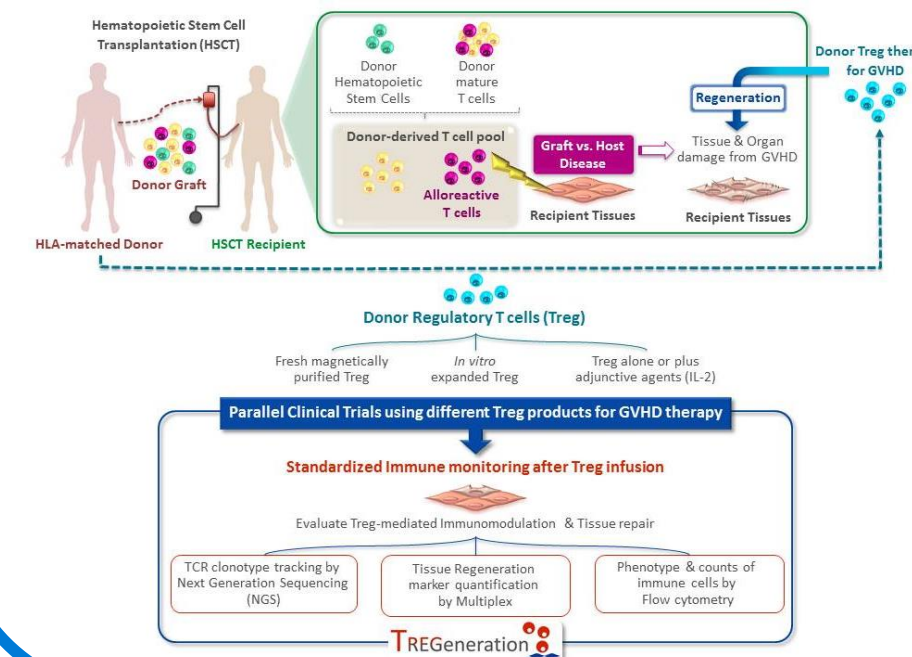
TransDisciplinarity



- GrowMeUp
- University of Coimbra
- Instrument: RIA
- Duration: 36 months
- Total EC contribution: 2.790.430 €



- Repair of tissue and organ damage in refractory chronic graft versus host disease after hematopoietic stem cell transplantation by the infusion of purified allogeneic donor regulatory T lymphocytes
- Institute of Molecular Medicine
- Instrument: RIA
- Duration: 60 months
- Total EC contribution: 5.899.250 €



- Citizen-centred EU-EHR exchange for personalised health
- UNINOVA
- Instrument: RIA
- Duration: 50 months
- Total EC contribution: 21.781.120 €





AGÊNCIA NACIONAL  
DE INOVAÇÃO



# HEALTH TOPICS FOR 2020

*PATRÍCIA CALADO*





# FUNDING AND TENDERS

Public Access

EU Login

Funding & tender opportunities (the Single Electronic Data Interchange Area) is the entry point for participants and experts in funding programmes and tenders managed by the European Commission and other EU bodies.

## Find calls for proposals and tenders

Search calls for proposals and tenders by keywords, programmes...

### Calls for proposals by EU Programme

|   |   |  |  |   |   |  |   |
|---|---|--|--|---|---|--|---|
| 3rd Health Programme (3HP)  | Asylum, Migration and Integration Fund (AMIF)           | Consumer Programme (CP)                    | Creative Europe (CREA)                   | European Defence Industrial Development Programme (EDIDP) | EU Aid Volunteers Programme (EUAID)     | Erasmus+ Programme (EPLUS)               | Europe For Citizens (EFC)                     |
| European Maritime and Fisheries Fund (EMFF)   | European Statistics (ESTAT)                             | HERCULE III (HERC)                         | Horizon 2020 Framework Programme (H2020) | Internal Security Fund Borders and Visa (ISFB)            | Internal Security Fund Police (ISFP)    | Justice Programme (JUST)                 | Pilot Projects and Preparatory Actions (PPPA) |
| Programme for the Competitiveness of Enterprises and small and medium-sized enterprises (COSME) | Programme for the Environment and Climate Action (LIFE) | Promotion of Agricultural Products (AGRIP) | Research Fund for Coal & Steel (RFCS)    | Rights, Equality and Citizenship Programme (REC)          | Union Civil Protection Mechanism (UCPM) | Programming Period 2007-2013 (FP7 - CIP) | Overview of EU funding                        |



# REGISTER AS AN EXPERT

**Improvements in My Expert Area**  
Based on your feedback, the **Dashboard** and **Payment** screens in 'My Expert Area' have been improved. A checklist has now been incorporated providing experts with a clear view on **where** they are in the payment process and **when** they can submit their payment request. Additionally, contextual help for each section has been made available. By clicking on the information icon, located at the top right hand side of the screen, a new screen will open containing a step by step guidance for that specific page. For more information about all features implemented with this release, please click [here](#).

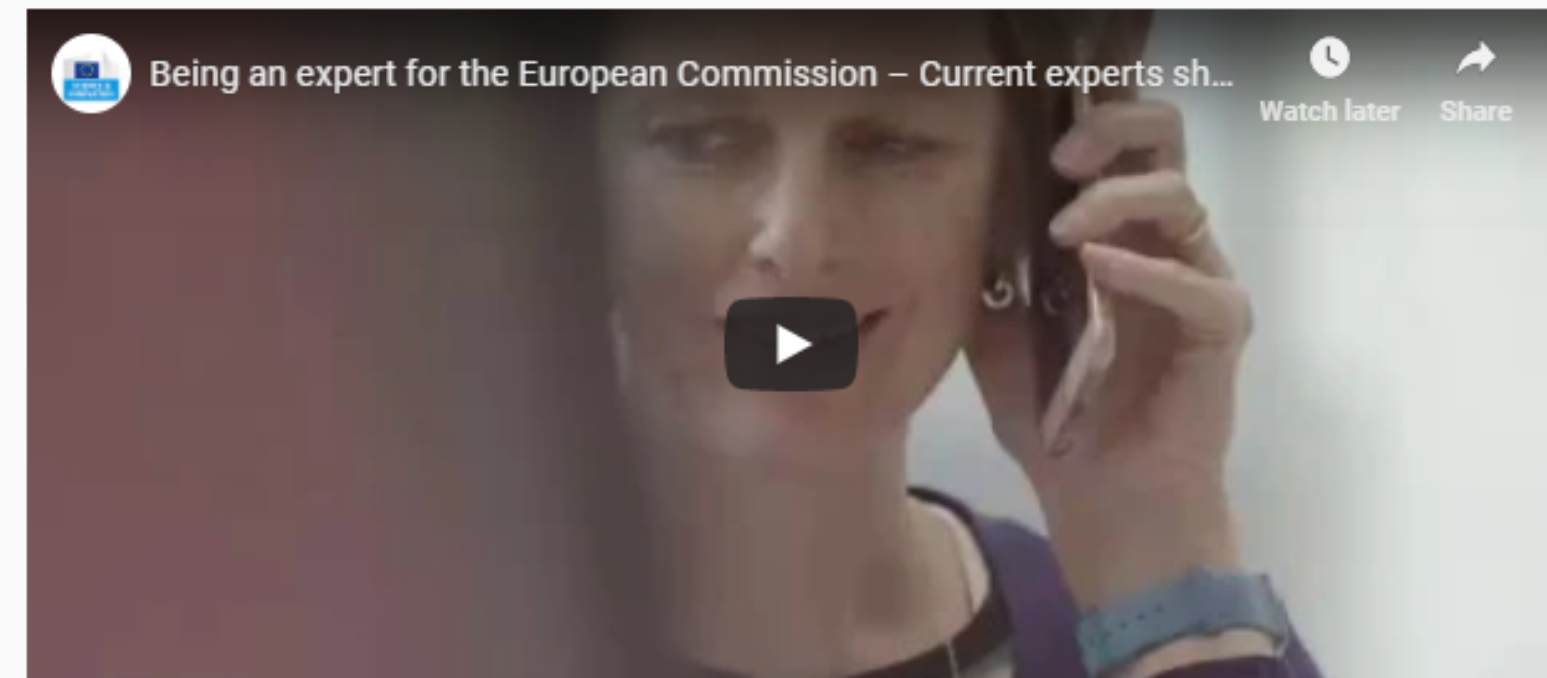
**LIFE programme added**  
For your information, the LIFE programme has been added to the list of programmes which can be found under "EU institutions and bodies". Please ensure that LIFE has been automatically selected and that your profile is now also available for this programme. Likewise, if you did not tick the box "other programme", it means LIFE was not selected and you need to login to your expert area, edit "Programme Selection/Who can see my profile" and update accordingly.

*The EC needs experts with ethics in medical & life sciences/bioethics expertise*

Online manual "Work as an Expert" IT HOW TO "Expert"

## Work as an expert

The European Union Institutions appoint external experts to assist in the evaluation of grant applications, projects and tenders, and to provide opinions and advice in specific cases.



- In particular, experts assist in:
- Evaluation of proposals, prize applications and tenders
  - Monitoring of actions, grant agreements, public procurement contracts

- In addition, experts provide opinion and advise on:
- Preparation, implementation and evaluation of EU programmes and design of policies.

In order to select experts, the European Union Institutions publish regularly calls for expression of interest (see list below) detailing the selection criteria, the required expertise, the description of the tasks, their duration and the conditions of remuneration.

Interested? Please join the database of external experts!

[Register as expert](#)

As new expert, you will be first requested to create your EU login account and register your profile.

Registered experts can update the profile via the My Expert Area after login.

## News

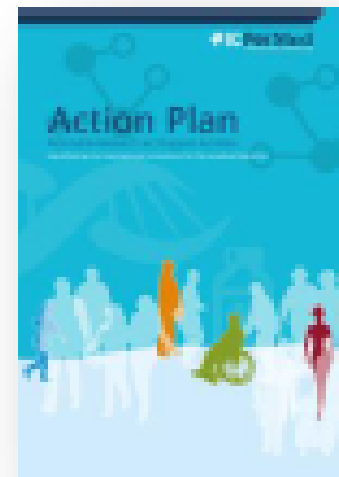
- Thursday, 4 April, 2019 - 00:00  
European Research and Innovation Days 24-26 September 2019 [More...](#)
- Friday, 22 March, 2019 - 00:00  
Call for experts on tasks for the LIFE Technical Assistance [More...](#)
- Thursday, 28 February, 2019 - 00:00  
Call for expression of interest for experts: Innovation Radar [More...](#)
- Tuesday, 19 February, 2019 - 00:00  
Call for volunteer Scientific Expert in business [More...](#)
- Tuesday, 29 January, 2019 - 00:00  
Call for experts to assist the European Defence Industrial Development Programme (EDIDP) [More...](#)
- Wednesday, 17 October, 2018 - 00:00  
Call for experts to assist the European Maritime and Fisheries Fund (EMFF) [More...](#)
- Thursday, 30 August, 2018 - 00:00  
New, improved "My Expert Area" released [More...](#)
- Tuesday, 5 June, 2018 - 00:00  
Expert evaluators needed: help us select high-potential (social) innovators [More...](#)



# HEALTH, DEMOGRAPHIC CHANGE AND WELL-BEING

## Health collaborative research

### 7 priorities for 2018-2020



Personalised medicine



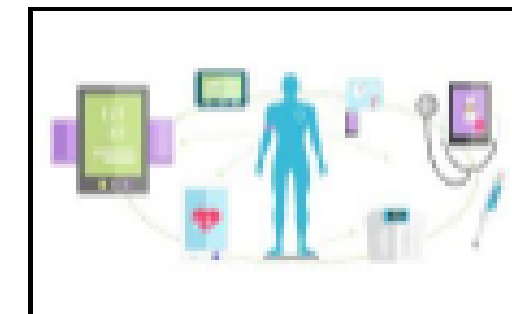
Decoding the role of the environment for health and well-being



Infectious diseases and improving global health



Innovative health and care industry



Innovative health, and care systems - Integration of care



Digital transformation in Health and Care



Trusted Big Data solutions and Cybersecurity for Health and Care



685 M€



# FUNDING SCHEMES

RIA

## **Research and Innovation Action (RIA)**

**100% direct costs | Indirect costs: 25% direct costs**

*Fundamental and applied research; Development and integration of technology; Testing and small prototype validation, in laboratory or relevant environment*

IA

## **Innovation Action [IA]**

**70% direct costs | Indirect costs: 25% direct costs**

*Exception for non-profit organizations (e.g., academia, public entities) - 100%. Prototyping, testing, demonstration activities, pilots; market replication.*

CSA

## **Coordination and Supporting Action [CSA]**

**100% direct costs | Indirect costs: 25% direct costs**

*Networking; policy dialogue, dissemination, communication, awareness, research and innovation alignment*



**BUT PLEASE READ THE WORK PROGRAMME!**

A word cloud of various terms related to research, innovation, and policy. The words are arranged in a roughly rectangular shape and vary in size and color. The colors used are teal, orange, and dark grey. The words include:

- SUSTAINABILITY
- AGEING
- RRRI
- ESFRI
- POLICY
- ERN
- ESIF
- EDGP
- HEALTHCARE
- STRATEGY
- PATIENTS
- CITIZENS
- IMPACT
- SSH
- EIP
- INCO
- SYNERGIES
- AAL
- AHA
- OPENSOURCE
- SDG
- CHALLENGES
- INEQUALITIES



# STRATEGIC PRIORITIES, OBJECTIVES, POLICY DRIVERS

## RELEVANT BACKGROUND

[2030 Agenda for Sustainable Development and its Sustainable Development Goals](#)

[COP211](#)

[Ostrava declaration on environment and health](#)

[Digital Single Market](#)

[European One Health Action Plan against Antimicrobial Resistance](#)

[Cross-border healthcare directive](#) (and its support to the European Reference Networks)

[Commission Communication on upgrading the single market](#)

[Council Conclusions on Personalised Medicine](#) and on [Pharmaceuticals](#)



# WP 2020: 3 CALLS FOR PROPOSALS

**BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS** 22

Personalised medicine 6

Innovative health and care industry 4

Infectious diseases and improving global health 7

Innovative health and care systems – Integration of care 3

Decoding the role of the environment, including climate change, for health and well-being 2

**DIGITAL TRANSFORMATION IN HEALTH AND CARE** 12

**TRUSTED DIGITAL SOLUTIONS AND CYBERSECURITY IN HEALTH AND CARE** 3





# **CALL BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS**

## **Priority 1.1 Personalised medicine**

### **Strategic goals :**

- Delivering personalised health and care solutions to benefit citizens;
- Generate and translate knowledge on disease aetiology and technological innovation into personalised health and care solutions;
- Areas of application include chronic, rare and communicable diseases;
- Any type of population, including children, the ageing population and high-risk groups;
- Relevant links with the European Reference Networks will be sought;
- Develop an understanding of the economic impact and the potential of personalised medicine to transform health systems.





# **CALL BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS**

## **Priority 1.2 Innovative health and care industry**

### **Strategic goals :**

- Turning innovative knowledge and technologies into practical applications benefiting citizens, healthcare systems and businesses;
- Areas of research include innovative diagnostics and therapeutics, including advanced therapies;
- SMEs are an important component and target of this priority;
- Actions must demonstrate clear exploitation potential and socioeconomic benefits for patients and sustainable health systems;
- Complementarity with activities under the SME Instrument, the Fast Track to Innovation and the Innovative Medicines Initiative.





# CALL BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

## Priority 1.3 Infectious diseases and improving global health

### Strategic goals :

- Tackle infectious diseases and the health of vulnerable groups;
- “One Health” and more personalised approach to target the improvement of risk assessment and surveillance tools, the development of innovative medical countermeasures addressing AMR, emerging and re-emerging infectious diseases and poverty-related and neglected diseases, low-vaccine uptake;
- Maternal and newborn health, global collaboration on NCD and brain research;
- Up-scaling interventions in specific diseases to populations in LMIC and in vulnerable populations of HIC;
- Connection between global health and extensive migration waves;
- Links to the EDCTP, the EU and WHO Global AMR action plans, the European One Health Action Plan against AMR, etc.





# CALL BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

## Priority 1.4 Innovative health and care systems - Integration of care



### Strategic goals :

- Developing effective, accessible and sustainable health interventions and integrated care systems;
- Particularly relevant in the context of personalised medicine, management of chronic diseases and health promotion;
- Development of health technology assessment methods and evaluation of community- and population-based intervention strategies;
- Management of elderly multimorbid patients;
- New financing and business models, requiring contributions from SSH;
- Intergation of the healthcare dimension by better coordinating primary and comunity care with the specific needs of the patient.



# CALL BETTER HEALTH AND CARE, ECONOMIC GROWTH AND SUSTAINABLE HEALTH SYSTEMS

## Priority 1.5 Decoding the role of the environment, including climate change, for health and well-being

### Strategic goals :

- Access the impact of environment on health and well-being, and the related socio-economic impacts;
- Development of new testing and screening methods to identify endocrine disrupting chemicals;
- Development of the 'human exposome', allowing the assessment of the totality of the life-long environmental influences that individuals are exposed to and their health impacts;
- Understanding the impact of micro- and nano-plastics on human health;
- Development of a European environment and health research agenda for the future;
- Innovative actions for improving urban health and wellbeing;
- Contribution to the Ostrava Declaration on Environment and Health and the EU chemical and other sectoral policies;
- Build on existing results from projects funded under previous EU research framework programmes and create links to the European Human Biomonitoring.





## CALL DIGITAL TRANSFORMATION IN HEALTH AND CARE



### Strategic goals :

- Supporting the management of health and wellbeing while empowering the participation of citizens and facilitating the transformation of health and care services to more digitised, person-centred and community-based care models;
- Enabling better access to healthcare and the sustainability of health and care systems;
- Secure and interoperable data as an enabler together with state of the art technologies such as Artificial Intelligence and Big Data analytics are essential building blocks for the digital transformation of health and care;
- Relevant to the Commission priorities 'A new boost for jobs, growth and investment' and 'A connected Digital Single Market' , as well as to the European Cloud Initiative and the European Free Flow of Data Initiative;
- Maximising the potential of the digital economy in the health and care sectors aiming at sustainable development to the benefit of society, environment and citizens.



## **CALL TRUSTED DIGITAL SOLUTIONS AND CYBERSECURITY IN HEALTH AND CARE**

### **Strategic goals :**

- ❑ Multidisciplinary technologies and solutions in health and care with a focus on Artificial Intelligence, High Performance Computing and cybersecurity to assure data privacy, security and protection of health and care infrastructures;
- ❑ Addresses the need for secure and user-driven ICT-based solutions in early risk detection and interventions with big data approaches that enable aggregation of a variety of new and existing data sources such as medical records, registries, social platforms and other environmental, physiological and behavioural data, including data from large scale pilots on smart living environments;
- ❑ Contribute to the Focus Areas on 'Digitising and transforming European industry and services' and 'Boosting the effectiveness of the Security Union'.





# HEALTH INFO DAY AND BROKERAGE EVENT

## 3 July

[Home](#) > [Research and Innovation](#) > [Events](#)

### Save the date! Open Info Day, Horizon 2020 - 'Health, demographic change and wellbeing'

Brussels (Charlemagne building), Belgium

## 4 July



4 July 2019  
Brussels, Belgium

Horizon 2020 Health  
Partnering Day 2019

[Home](#) [How it works?](#) [Timetable](#) [Flash presentations](#) [Venue](#) [Contact](#)

### Get involved in the next H2020 Health proposals!

The launch of the 2020 call is planned for June 2019; this will be the last call of Horizon 2020 before the new Framework Programme starts in 2021.

**The European action Health NCP Net 2.0, in partnership with Enterprise Europe Network, are organizing the next Horizon 2020 Partnering Day on the 2020 Health call for proposals.**

This international partnering event will help you to build your consortium for the upcoming 2020 calls of the 2018-2020 Health work programme, which will be open until April 2020.

Don't miss this opportunity!

This event will target a wide spectrum of companies, universities and researchers from Europe and beyond interested in sharing new project ideas.

One day before, on the 3rd of July 2019, the European Commission is organizing an **Open Info Day** dedicated to "Health, Demographic Change & Wellbeing (SC1)" challenge in Horizon 2020 and focusing on the 2020 call.

Do not miss an opportunity to attend both of these events and establish valuable contacts with other experts as well as European Commission representatives!

[Register now](#)  
Open until 31 May 2019

#### LOCATION

Crowne Plaza Brussels - Le Palace

#### ORGANISED BY







# HEALTH RELATED PROGRAMMES

(CO-FUNDED BY SC1)



EDCTP funds clinical research to accelerate the development of new or improved drugs, vaccines, microbicides and diagnostics against HIV/AIDS, tuberculosis and malaria as well as other poverty-related infectious diseases in sub-Saharan Africa, with a focus on phase II and III clinical trials.

Contact: [ricardo.pereira@fct.pt](mailto:ricardo.pereira@fct.pt)



AAL funds projects that work towards creating market-ready products and services for older people. Each project consists of SMEs, research bodies and end-user organisations. Time-to-market maximum 2-3 years after the end of the project.

Contact: [pedro.ruivo@fct.pt](mailto:pedro.ruivo@fct.pt)



IMI is a partnership between the European Union and the European pharmaceutical industry. IMI facilitates open collaboration in research to advance the development of, and accelerate patient access to, personalised medicines for the health and wellbeing of all, especially in areas of unmet medical need.

Contact: [patricia.calado@ani.pt](mailto:patricia.calado@ani.pt)



The EIP on AHA aims to promote healthy and active ageing. Its overarching target is to increase the average healthy lifespan of EU citizens by 2 years by the year 2020. It pursues a Triple Win for Europe:

- Improving the health and quality of life of Europeans with a focus on older people;
- Supporting the long-term sustainability and efficiency of health and social care systems;
- Enhancing the competitiveness of EU industry through business and expansion in new markets.



Last opportunities in H2020

# PATHFINDER PILOT BUILDS ON FET OPEN AND PROACTIVE!!

**Pathfinder**



> supports future and emerging breakthrough technologies with a **one-off grant**



> a project can apply for Accelerator funding **as it matures**

- Collaborative projects up to 3M€
- TRL 1-3/4 (RIA, 100%)
- Proposals 1+15 pages



FETOPEN SPIRIT: "LET'S TRY EVEN IF IT MAY FAIL!"



Sofia.Azevedo@ani.pt



AGÊNCIA NACIONAL  
DE INOVAÇÃO

*Thank you!*

*Patrícia Calado*

*patricia.calado@ani.pt*

