



Gabinete de Promoção dos Programas Quadro ID&I  
Fundação para a Ciência e Tecnologia | Agência de Inovação

# H2020

## Spreading Excellence and Widening Participation (widening)

Universidade da Madeira, Funchal,

**Mafalda Dourado**

10/12/2015



- **Spreading Excellence and Widening Participation – Widening**
- **Teaming**
- **Twinning**
- **ERA-Chairs**
- **COST**





- **Spreading Excellence and Widening Participation – Widening**
- Teaming
- Twinning
- ERA-Chairs
- COST



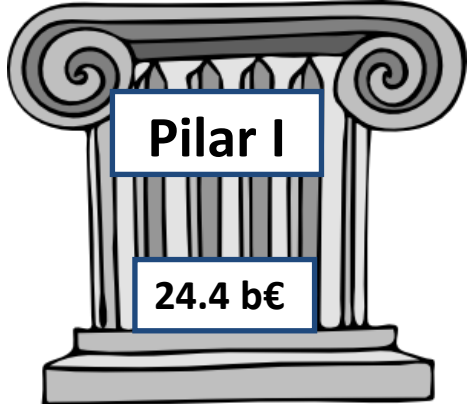
Gabinete de Promoção dos Programa Quadro ID&I



# Widening no H2020

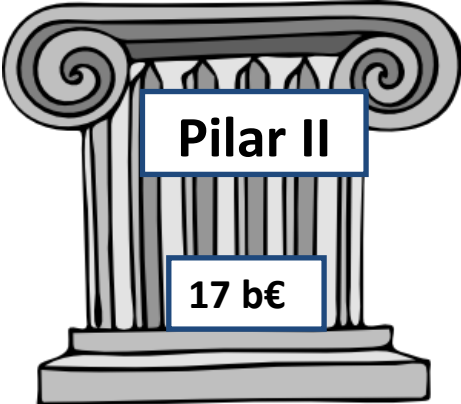
Apoiar a UE a tornar-se líder mundial em ciência

*Excelência Científica*



Fortalecer a liderança industrial em inovação

*Liderança Industrial*



Abordar as principais preocupações partilhadas por todos os europeus

*Desafios Societais*



Spreading Excellence – 0,8 B€

Science with and for Society– 0,5 B€

EIT 2,7 B€

JCR 1,9 B€

EURATOM 1,6 B€



Gabinete de Promoção dos Programa Quadro ID&I

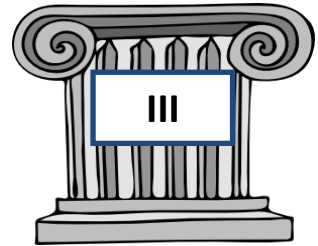
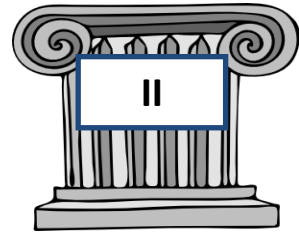
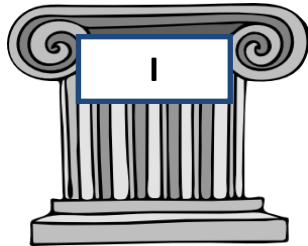


# Widening no H2020 - Pilares

- Conselho Europeu de Investigação (ERC)
- Tecnologias Futuras e Emergentes (FET)
- Ações Marie Skłodowska-Curie (MSCA)
- Infraestruturas de investigação

- Liderança em Tecnologias Facilitadoras e Industriais (LEIT) – NMP+B, ICT, KETs, Espaço
- Acesso a financiamentos de risco
- Inovação em PME

- Saúde
- Bioeconomia
- Energia
- Transportes
- Ação climática
- Sociedades inclusivas
- Sociedades seguras



Spreading Excellence and Widening Participation– 0,8 B€

Science with and for Society– 0,5 B€

EIT 2,7 B€

JCR 1,9 B€

EURATOM 1,6 B€



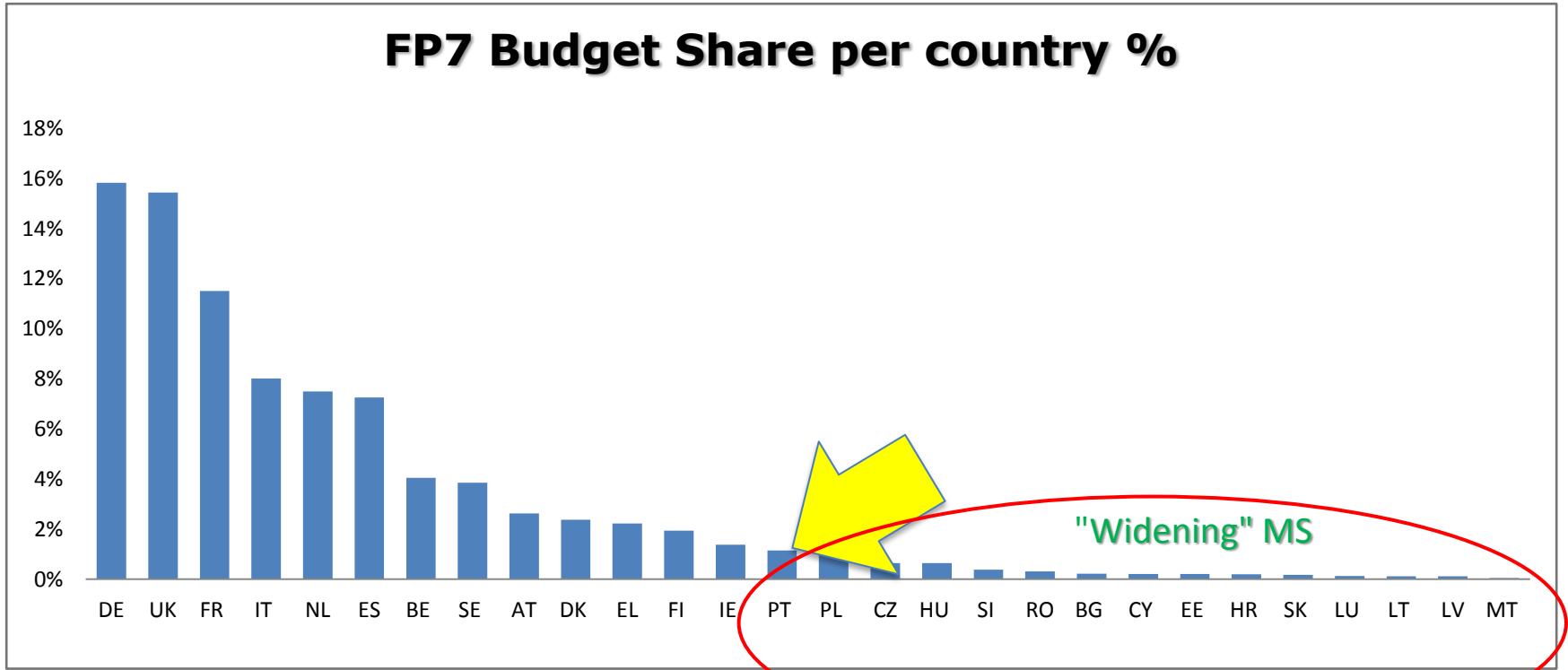
Gabinete de Promoção dos Programa Quadro ID&I



# Widening – background I

- Disparidades no desempenho das várias regiões europeias na investigação e no desenvolvimento: barreira à competitividade, crescimento e empregabilidade na Europa
- Alguns países com baixa participação nos programas quadro: :
  - insuficiente Investimento nacional em I&D;
  - Falta de sinergias entre sistemas de investigação nacionais e o panorama europeu para a investigação
  - Acesso reduzido a redes internacionais
  - Problemas com informação, comunicação e treino

# Widening – background II



# Widening – instrumentos no H2020

- Teaming (construção de uma instituição)
- Twinning (networking institucional)
- ERA Chairs (ponte entre instituições excelentes)
  
- NCPs (informação, comunicação e apoio)
- Policy Support Facility (apoio à conceção de políticas em I&D)
- COST ( estímulo a redes internacionais de ciência)

**Orçamento** H2020 ~ € 800 milhões



# Widening – critérios de elegibilidade

- objetivos politicos particulares no WIDENING H2020
- Abordagem focada no apoio à participação de participantes com baixa performance em I&D
- Texto legal refere >> “Estados membros e regiões low performing”
- Criterio de Elegibilidade : **The Indicador compósito para excelencia na investigação**  
Threshold: EM abaixo de 70% da média EU

## "Low RDI Performing" or "Widening" Countries:

**MS:** Bulgaria, Croata, Cyprus, Republic, Estonia, Hungary, Latvia, Lithuania, Luxembourg, Malta, Poland, **Portugal**, Romania, Slovakia and Slovenia

**AC:** Albania, Bosnia and Herzegovina, Faroe Islands, Former Yugoslav Republic of Macedonia, Moldova, Montenegro, Serbia, Turkey and Ukraine



- Spreading Excellence and Widening Participation
- Exemplo participação PT
- **Teaming**
- Twinning
- ERA-Chairs
- COST



# Teaming - objetivos

- Creation of new (or significant upgrade of existing) Centres of Excellence in low R&I performing or "Widening" countries

The Partnership: 2 parties in each Teaming project

- (1) the COORDINATOR from a "Widening" country (must be a national/regional authority, research funding agency, university or res. organisation)
- (2) a university or res. organisation with an international reputation in R&I excellence (from all EU28 or AC)

➤ **Implementation in 2 Phases**

# Teaming - funding scheme

**Phase 1:** Funding the development of a **Business Plan** for the new/upgraded Centre of Excellence facilitated by a teaming process with a leading counterpart in Europe

## Proposals (Phase 1):

- Demonstrate the long-term science and innovation strategy of the future Centre
- Outline how this strategy broadly fits with the RIS3 of the Widening country
- Demonstrate that the project is based on a true joint venture between the parties

**Phase 2:** Subject to the quality of the Business Plan, and the financial commitment for the project from other sources, the Commission may provide further substantial financial support for the **first steps of implementation** of the Centre

## Proposals (Phase 2):

- Business Plan (Phase 1 deliverable) with robust financial commitments (national/ESIF/IPA/private funds)
- **IMPORTANT:** Access to Phase 2 is only available to those proposals already supported in Phase 1!

# Teaming – WP 2016-17

## Phase 1 Call : Business Plan for a Centre of Excellence (CoE)

Budget: €12 million

Call publication: 14 October 2015

Call opening: 11 May 2016

Call deadline: 15 November 2016

Project Size: €400,000 (eligibility condition)

Project Duration: 12 months (eligibility condition)

Funding for: Business Plan

Implementation: Coordination and Support Action

## Phase 2 (Restricted) Call in 2018: Start-up/Implementation of the CoE

Project size & duration: ~ €15 million & 5-7 years

Implementation: Coordination and Support Action

Funding for: Substantial support for the start-up phase of the CoE (administrative, personnel and operational costs as well as very limited support for equipment and consumables)

➤ **More information for Phase 2 in the future 2018 Work Programme**

# Call Teaming- news

- FPA/SGA concept dropped
- Standard call in Phase 1 – Restricted call in Phase 2
- Clarity in WP on organisation type for the coordinator >> EC to provide a template of a letter of intent in case coordinator not a public authority
- Broad alignment with RIS3 or equivalent growth strategy (ACs) – Specific evaluation sub-criterion under Excellence
- IPA II mentioned explicitly as a potential source of complementary funding for Phase 2 (Associated Countries)

# Teaming – 2014

- **167** eligible proposals submitted from 20 countries (15 MS & 5 AC)
- Requested budget: **€73.8M** with €11.85M foreseen in the WP
- Average requested EU contribution per proposal: **€ 430.000**
- **31** proposals selected for funding from 14 "Widening" countries
- Most funded proposals in the area of **Physics & Chemistry** and **Medicine & Life Sciences**
- **Frequent 'advanced' partners** in proposals: DE (136) and UK (67)
- **Successful 'advanced' partners** - DE (21), AT (6), FI (6)

# Teaming - proposals by country

	Member States	Proposals received	Proposals funded	Advanced partners (proposals received)
1	Bulgaria	11	2	AT, BE, DE, DK, HR, HU, IL, IT, SE
2	Croatia	6	0	AT, BE, CH, DE, ES, FR, IT, NL, UK
3	Cyprus	14	3	AT, CH, DE, ES, EL, FR, IL, IT, NL, PT, SE, UK
4	Czech Republic	10	3	AT, DE, CH, IT, UK
5	Estonia	5	2	ES, FI, UK
6	Hungary	9	3	AT, BE, DE, ES, NL, UK
7	Latvia	7	1	AT, CH, DE, DK, ES, FI, FR, IT, NL, SE
8	Lithuania	3	1	DE, DK, FR, FI, IE, SE, UK
9	Luxembourg	1	0	FR
10	Malta	5	1	DE, NL
11	Poland	19	3	BE, CZ, DE, DK, EL, FI, FR, LU, NL, SE, SL
12	<b>Portugal</b>	<b>9</b>	<b>4</b>	<b>AT, BE, DE, NL, UK</b>
13	Romania	24	1	AT, BE, CH, CZ, DE, DK, ES, IE, FR, IL, IT, HU, NL, PT, SE, UK
14	Slovakia	13	4	AT, BE, DE, EL, ES, IE, IT, FI, FR, NL, SK, UK
15	Slovenia	11	2	AT, CH, DE, ES, FR, IT, SE
	<b>Total MS</b>	<b>147</b>	<b>30</b>	
	<b>Associated Countries</b>			
1	Albania	1	0	ES
2	Faroe Islands	1	0	DE, UK
3	Montenegro	1	0	IT, SL, RS
4	Serbia	15	1	CZ, DE, EL, ES, IE, IT, NL, PL, SL, UK
5	Turkey	2	0	AT, DE, EL, IT
	<b>Total AC</b>	<b>20</b>	<b>1</b>	
	<b>Grand Total</b>	<b>167</b>	<b>31</b>	



# Teaming - lessons learned

## Successful proposals marked by:

- Clear objectives / vision /excellence, engaging strategically in a path of innovative growth
- Well-chosen, carefully structured partnership & strong engagement from parties
- Long term science and innovation strategy
- Broad alignment with national/regional Smart Specialisation Strategies
- Long term financial commitments from relevant authorities
- Clear strategy on handling resources

## For the next call proposers should:

- Clarify better their vision
- Make clear pointers to integration with medium to long term growth strategies
- Have clear plans on organisational and resource related issues

# Links :

Horizon 2020 Participant Portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/index.html>

Teaming 2014 Call press release:

[http://europa.eu/rapid/press-release\\_IP-15-3885\\_en.htm](http://europa.eu/rapid/press-release_IP-15-3885_en.htm)



- Spreading Excellence and Widening Participation
- Exemplo participação PT
- Teaming
- **Twinning**
- ERA-Chairs
- COST



# Twinning – goal and partnerships

## Aim of the action:

Strengthen a defined field of research in a university or research organisation from a Widening country by linking it with at least two internationally-leading research institutions in other Member States or Associated Countries.

## Main objectives:

- Enhance the S&T capacity of the institutions-Focus on institution in Widening country
- Raise the research profile of the institution and of its research staff

## The Partners: (Minimum Conditions)

- **ONE** institution located in a "Widening" MS/AC (**COORDINATOR**)
- A **minimum of TWO** additional partners from two different MS or AC other than the country of the coordinator.

# Twinning – proposal design and impact

## **Proposals:**

- Scientific strategy for excellence and innovation in a defined area of research;
- Outline the scientific quality of the partners;

## **Activities supported:**

- Short term staff exchanges; expert visits and short-term training; workshops; conference attendance; dissemination and outreach activities.

## **Expected Impact:**

- Research excellence, in particular, in the selected field of research;
- Improved capability to succeed in competitive research funding;
- Enhanced reputation, attractiveness and networking;
- The expected potential impact of the project illustrated by a number of indicators.

## Twinning: Costs & Call 2017 details

### Eligible Costs:

- Coordination and networking;
- Dissemination and outreach activities.

Infrastructure, equipment & research costs will NOT be funded.

### **Twinning Call 2017:**

Budget: €20 million

Call publication: 14 October 2015

Call opening: 11 May 2017

Call deadline: 15 November 2017

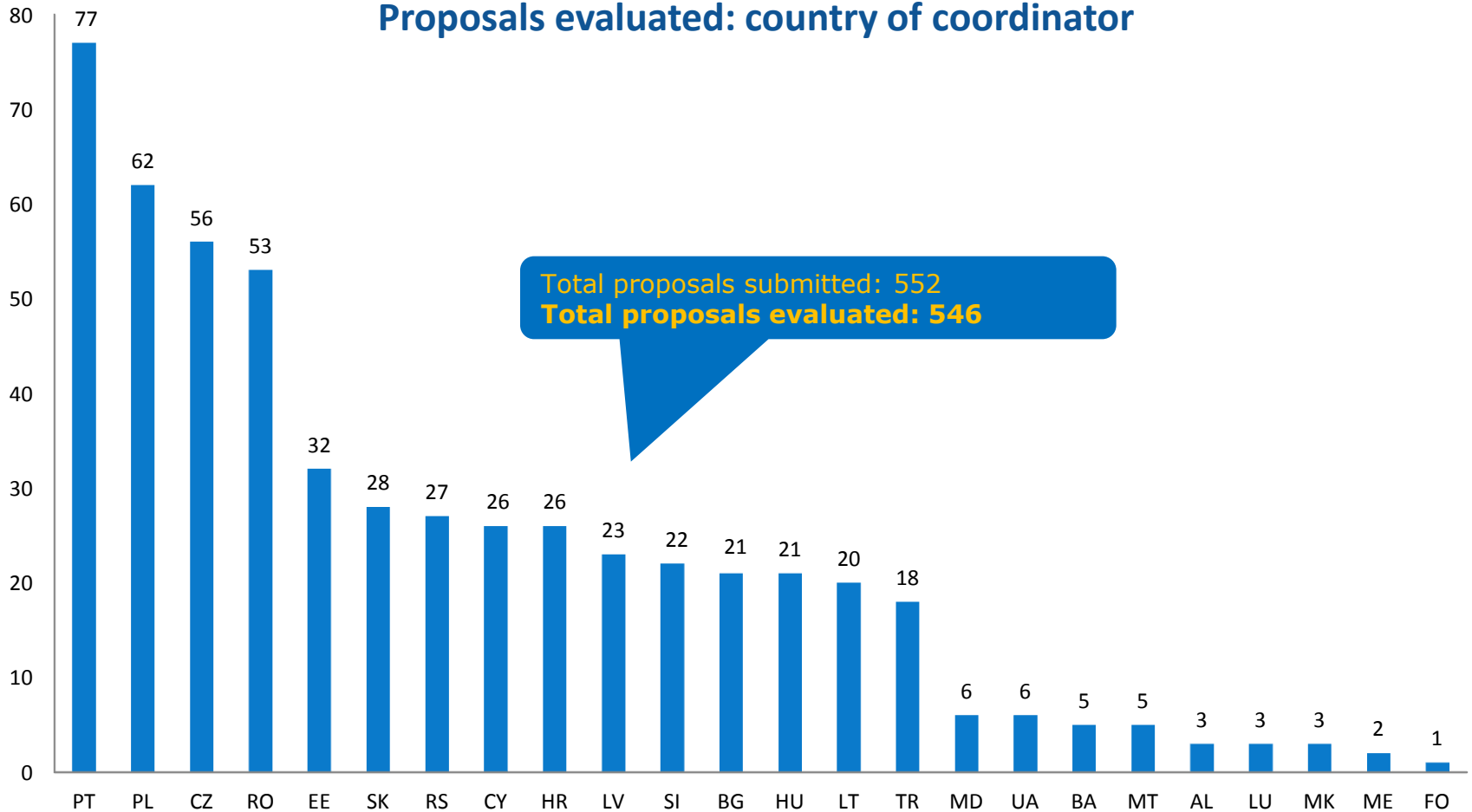
Project Size: up to €1 million (eligibility condition)

Project Duration: up to 3 years (eligibility condition)

Implementation: Coordination and Support Action

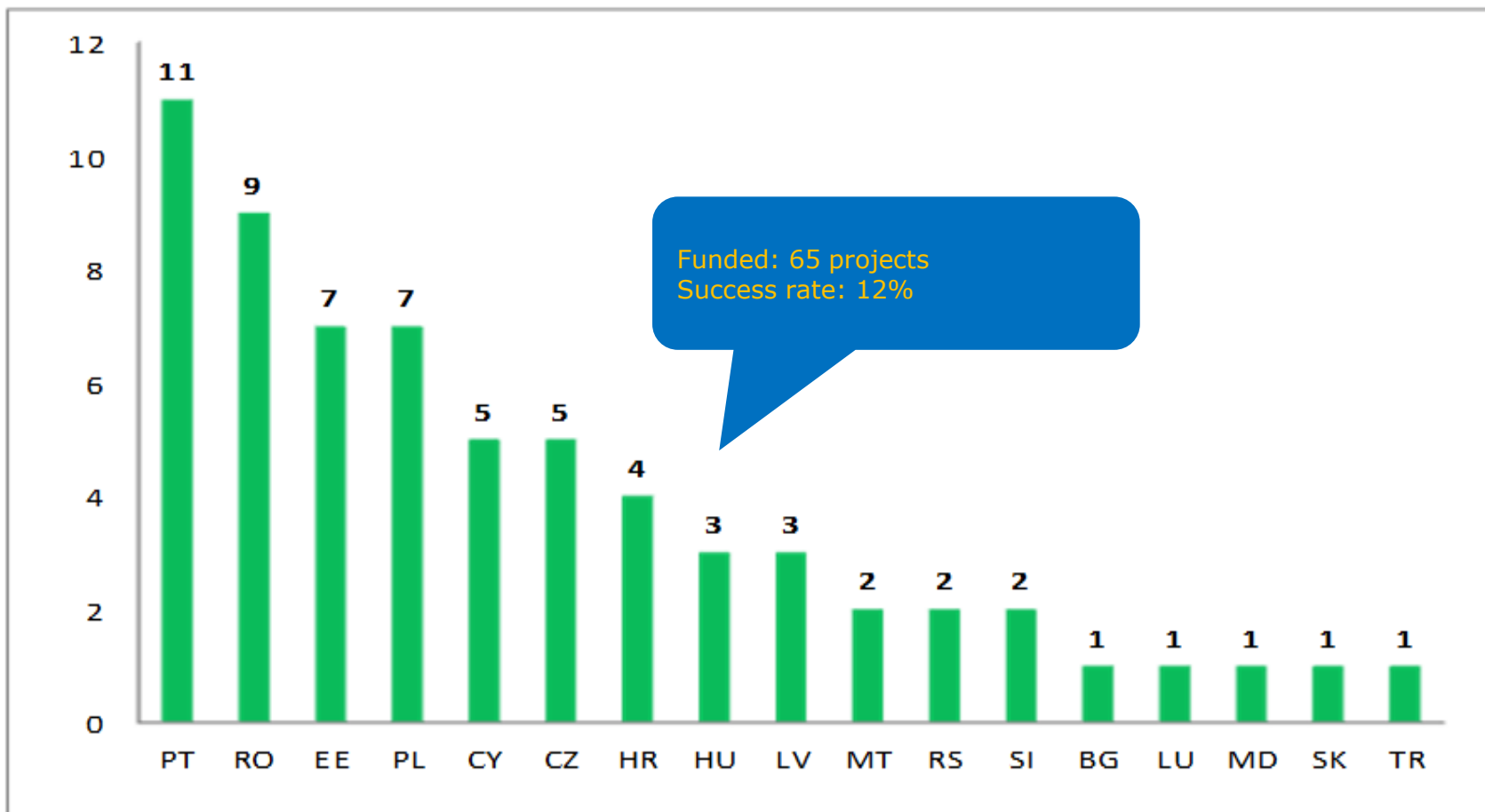
## Twinning: 2015 call statistics

### Proposals evaluated: country of coordinator



## Twinning: 2015 call statistics

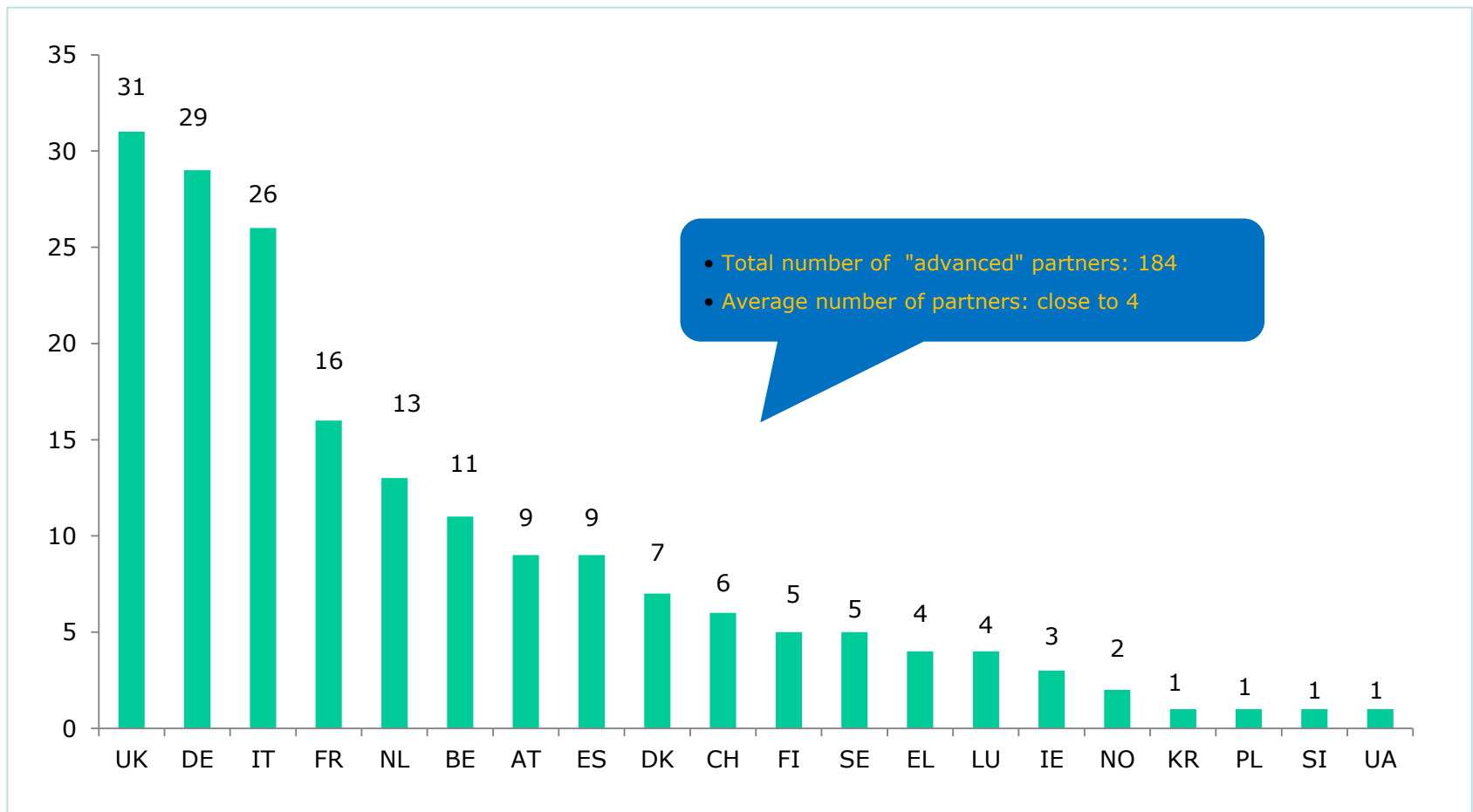
### Successful Proposals: country of coordinator





## Twinning: 2015 call "advanced" partners

### Successful Proposals: "advanced" partners by country



## Twinning: Lessons learned

### Lessons learned for future calls:

- Clear definition of the scientific strategy towards excellence in the relevant research field;
- Better illustration of the scientific qualities of "advanced" partners and their added value to the project;
- Outline the expected impact of the twinning exercise on the institution in the Widening country (and even at the national/regional level) based on specific indicators.

Link:

Horizon 2020 Participant Portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/index.html>



- Spreading Excellence and Widening Participation
- Exemplo participação PT
- Teaming
- Twinning
- **ERA-Chairs**
- COST



## ERA Chairs - Objectives

### Objectives of the action:

- Bring high quality researchers and managers (**the ERA Chair and his/her team**) to universities and other research organisations with the potential for research excellence.
- Institutions should implement structural changes to achieve excellence on a sustainable basis.

### Participants

- **One single applicant** (mono-beneficiary action) located in a **Widening country**.

## ERA Chairs: Proposal Design & Impact

### Proposals:

- Bottom-up approach but connected with the **ERA Chair holder expertise** to fully capitalise on his/her presence;
- Include measures to foster **ERA priorities** (open recruitment, peer review, gender balance, Charter & Code);
- Include a plan to increase **Research Capacity** - if infrastructures foreseen present a strategy for funding (including possible from use of **ESIF funding**).

### Expected Impact:

- Increased **attractiveness** of institution and region for excellent researchers;
- Research **excellence** in the fields covered by the ERA Chair;
- Improved capability of the institution to succeed in **competitive** research funding;
- Institutional changes to comply with **ERA priorities**.

## ERA Chairs: The ERA Chair holder

- The ERA Chair should be an **outstanding** researcher and research manager with a proven record of **leadership**;
- The ERA Chair appointment must follow an **open and merit-based recruitment process** - to be subjected to monitoring by the European Commission;
- ERA Chair holder should be appointed in a **full time position but part-time arrangements are possible**;
- The institution should ensure **autonomy** for the Chair and his/her team;
- ERA Chairs can be of **any nationality**;

## ERA Chairs: Costs & Call 2017 details

### Eligible Costs:

- **Salaries** of ERA Chairs and his/her team.
- Contribution towards measures aimed at facilitating structural changes at the institution: - **ERA priorities;**
  - **Costs** including training, meetings, publication and patenting costs, equipment (minor part of budget and duly justified);

The grant will **not cover** for **infrastructures and research costs!**

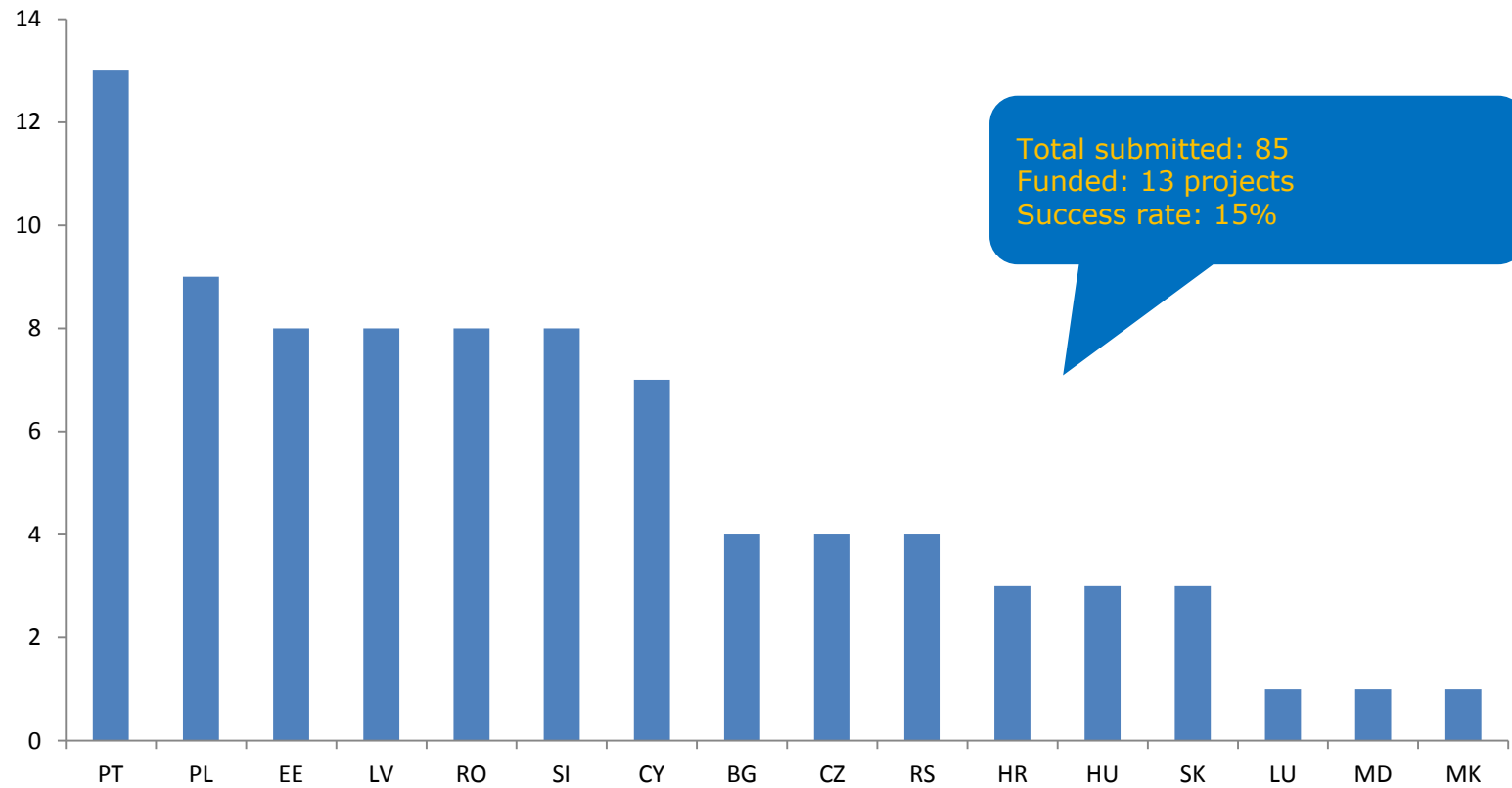
### ERA Chairs Call 2017:

Budget: €33.91 million  
Call publication: 14 October 2015  
Call opening: 12 April 2017  
Call deadline: 5 October 2017  
Project Size: up to €2.5 million (eligibility condition)  
Project Duration: up to 5 years (eligibility condition)  
Implementation: Coordination and Support Action



## ERA Chairs: 2014 call statistics

### Proposals per Country



## ERA Chairs 2014 call – Successful proposals

Institution Country	Proposals per Country in the main list
<b>PT</b>	<b>4</b>
<b>EE</b>	<b>3 (+1)</b>
<b>CY</b>	<b>2</b>
<b>PL</b>	<b>2</b>
<b>HR</b>	<b>1</b>
<b>RO</b>	<b>1</b>
<b>Total</b>	<b>13</b>

## ERA Chairs: Lessons learned

### Lessons learned for future calls:

- Clearly define objectives towards **institutional changes**
- Demonstrate the role and **autonomy** of the ERA Chair holder
- Work Packages should be consistent and contribute to an **overall Action Plan**
- Management structures need to be **well defined** and **simple**.

# links:

Horizon 2020 Participant Portal:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/index.html>

ERA Chairs 2014 Call press release:

<http://ec.europa.eu/research/index.cfm?pg=newsalert&year=2015&na=na-090213>



- Spreading Excellence and Widening Participation
- Exemplo participação PT
- Teaming
- Twinning
- ERA-Chairs
- **COST**

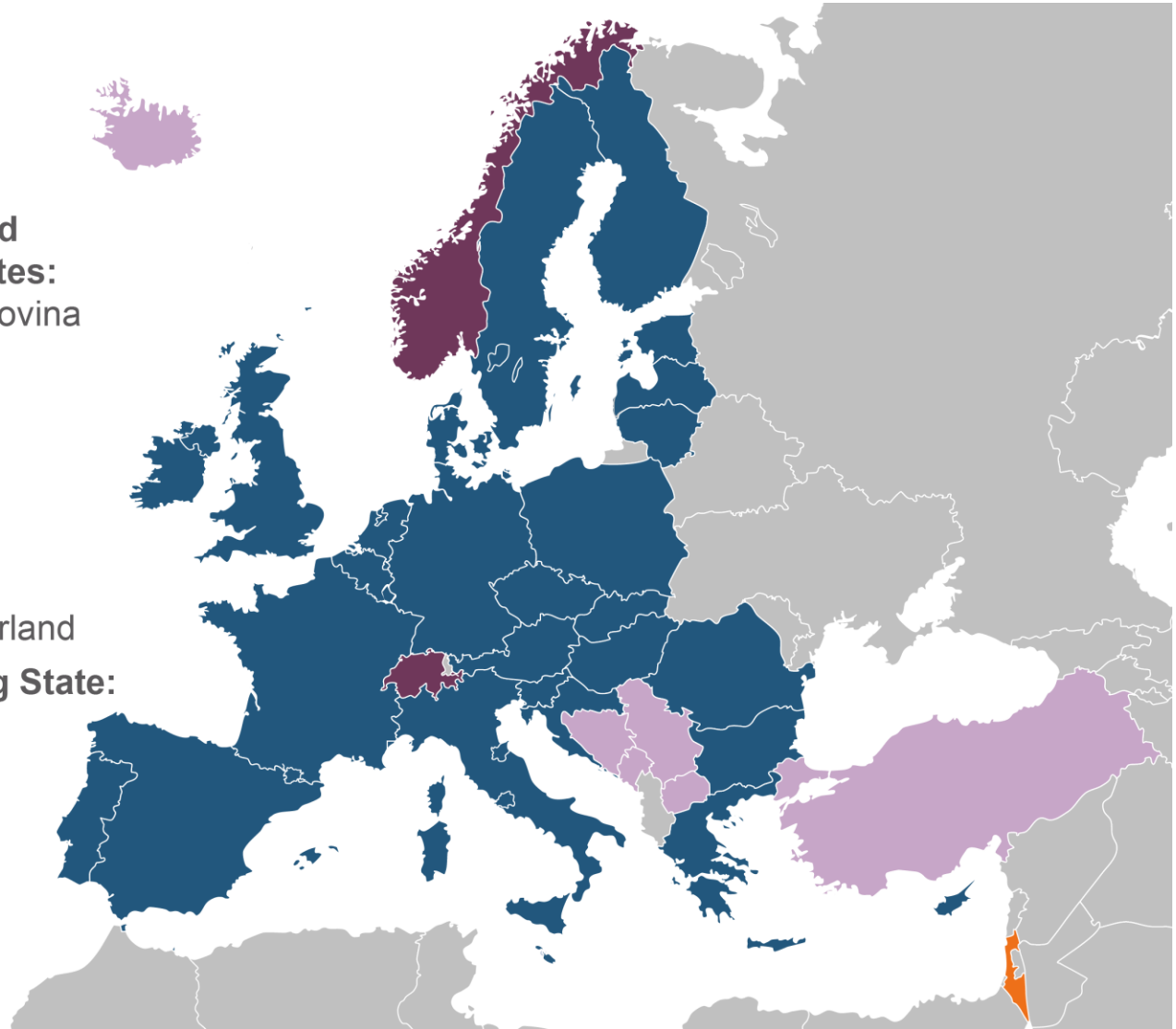


## COST– Facts and Figures :

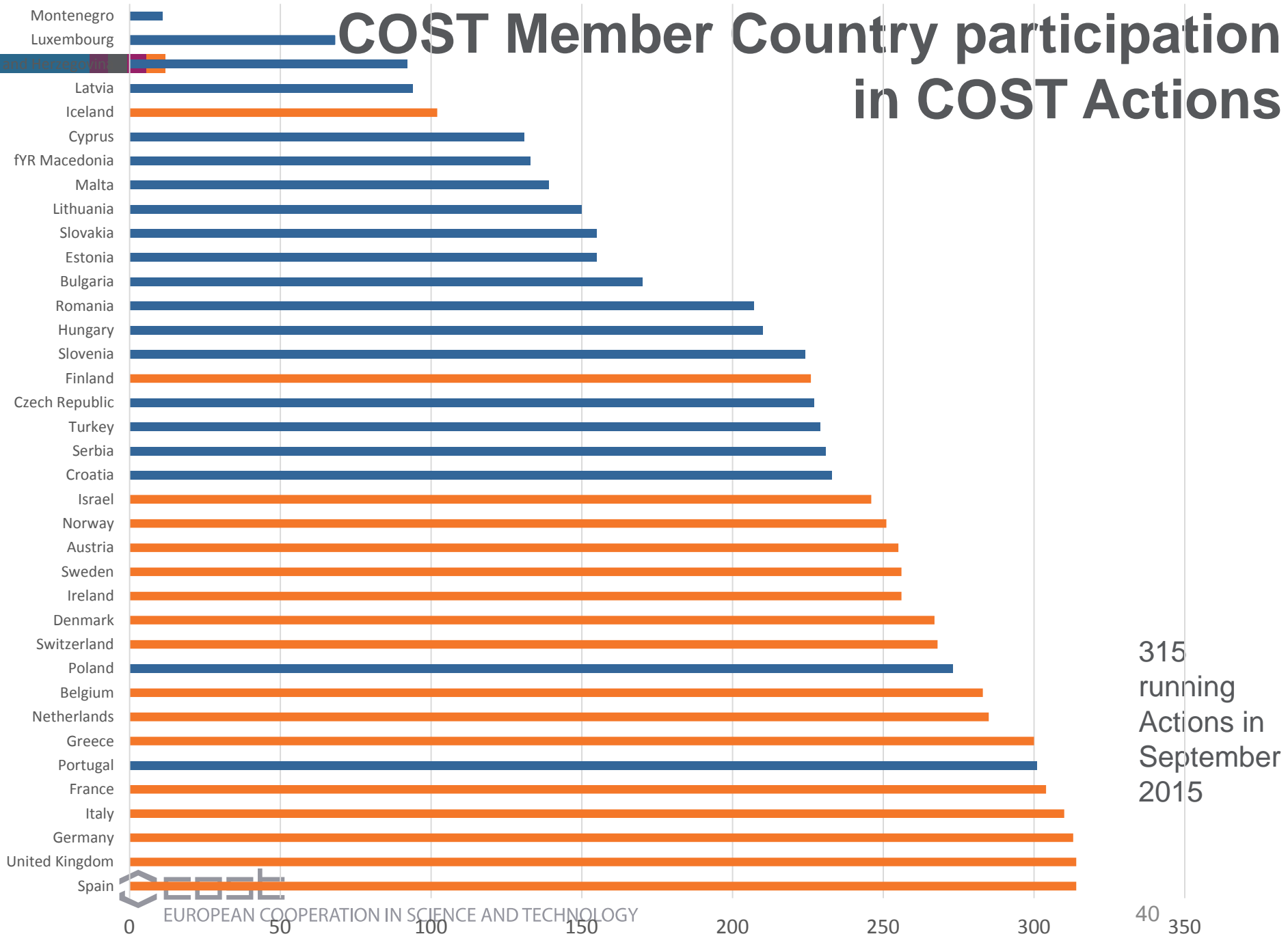
- Intergovernmental Framework for transnational **C**ooperation in **S**cience and **T**echnology
- Success story since 1971
- Networking of nationally funded research projects-> up-scaling and leveraging effects
- bottom-up and excellence principle -> open to all disciplines, science and technology (S&T) ideas and to all categories of partners
- Reaches far beyond EU-> 36 COST Member States + Near Neighbourhood Countries + International Partners
- On average 20 countries per networking action, duration 4 years
- EU funding 250 Million € under FP7 and 300 Million under H2020 (tentatively)
- Aligned with H2020 work programmes on "Widening Participation and Spreading Excellence" & "Europe in a Changing world – inclusive, reflective and innovative societies"
- New implementing structure -> COST AISBL (international non-profit association)
- New submission, evaluation and selection system and single scientific committee

# COST Member Countries

- EU 28
- EU Candidates and Potential Candidates:  
Bosnia and Herzegovina  
fYR Macedonia  
Montenegro  
Iceland  
Republic of Serbia  
Turkey
- Other Countries:  
Norway and Switzerland
- COST Cooperating State:  
Israel



# COST Member Country participation in COST Actions







# COST Policies

**COST Policies** aim at creating cooperation opportunities for researchers, engineers and scholars from all COST Member Countries (and cooperating state)

- Researcher-driven, **bottom-up**, open to any novel and original idea **leading to new concepts and products**
- **COST Excellence & Inclusiveness Policy** with special focus on its Inclusiveness Target Countries, giving more visibility to:
  - Geographical balance
  - Young talents and next generation leaders
  - Gender balance
- **Industrial Dimension** leading to **Innovation** with special focus on SME participation
- **International Openness** with special focus to Near Neighbour Countries



# COST Implementation

- New set of **COST Implementation Rules** and **Vademecum** and set of Guidelines
- **Open Call** with **two Collection Dates per year** (Spring and Autumn)
- **Open to all fields in Science and Technology**
- New **Submission, Evaluation, Selection and Approval (SESA) Rules and Procedure**
  - **Submission:** Main Proposer on behalf of a network of proposers (minimum five COST countries)
  - **Evaluation:** Remote evaluation by independent External Experts and revision by ad-hoc Review Panels
  - **Selection:** COST Scientific Committee (SC)
  - **Approval:** Committee of Senior Officials (CSO)
- **Participate:** [http://www.cost.eu/participate/open\\_call](http://www.cost.eu/participate/open_call)



# Who can participate?

Researchers, engineers and scholars from:

- **COST Member Countries** and Cooperating State
- Near Neighbour Countries
- International Partner Countries
- European Commission and EU Agencies
- European RTD Organisations
- International Organisations



# How to participate?

- Joining a running COST Action
- Becoming an expert
- Submitting a proposal for implementing a COST Action

# How to Find a running Action?

## ▶ All Actions

- ▶ Biomedicine and Molecular Biosciences (BMBS)
- ▶ Chemistry and Molecular Sciences and Technologies (CMST)
- ▶ Earth System Science and Environmental Management (ESSEM)
- ▶ Food and Agriculture (FA)
- ▶ Forests, their Products and Services (FPS)
- ▶ Individuals, Societies, Cultures and Health (ISCH)
- ▶ Information and Communication Technologies (ICT)
- ▶ Materials, Physics and Nanosciences (MPNS)
- ▶ Transport and Urban Development (TUD)
- ▶ Trans-Domain Proposals

## All Actions

This section gives an overview of all past and running Actions with descriptions provided by the Actions directly. Click on the Action of your interest. Alternatively, use the detailed search option in the top right corner of your screen or visit the Domain pages below.

### Search for COST Action

Full text search <input type="text"/> <input type="checkbox"/> search in title only all Domains <input type="button" value="Submit"/>	Action number <input type="text"/> <input type="button" value="Submit"/>
	Start date from <input type="text"/> End date until <input type="text"/> <input type="button" value="Submit"/> e.g. 28/04/2010

Page 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

▶ show all Actions on one page

Sort by Action No  Name of Action  Start date  End date

- ▶ MP1406 | Multiscale in modelling and validation for solar photovoltaics (MultiscaleSolar) | 07 May 2015 - 07 May 2019
- ▶ MP1404 | Simulation and pharmaceutical technologies for advanced patient-tailored inhaled medicines (SimInhale) | 04 May 2015 - 04 May 2019
- ▶ MP1405 | Quantum structure of spacetime (QSPACE) | 30 April 2015 - 30 April 2019
- ▶ IS1408 | Industrially Contaminated Sites and Health Network (ICSHNet) | 29 April 2015 - 29 April 2019
- ▶ IS1410 | The digital literacy and multimodal practices of young children (DigiLitEY) | 24 April 2015 - 24 April 2019
- ▶ MP1407 | Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS) | 23 April 2015 - 23 April 2019
- ▶ TD1407 | Network on technology-critical elements - from environmental processes to human health threats | 15 April 2015 - 15 April 2019
- ▶ IS1407 | Ancient European languages and writings (AELAW) | 13 April 2015 - 13 April 2019
- ▶ FA1408 | A European Network for Foodborne Parasites (Euro-FBP) | 30 March 2015 - 30 March 2019

[http://www.cost.eu/COST\\_Actions/all\\_actions](http://www.cost.eu/COST_Actions/all_actions)

# Become a COST Expert!

As a COST Expert, you will have the opportunity to:

- Contribute to the evaluation of COST Open Call proposals
- Participate in the assessment of Action results and outcomes
- Be invited to take part in the assessment of COST strategic activities

New experts can express their interest via the COST Expert online registration form:

[www.cost.eu/experts](http://www.cost.eu/experts)

An updated Curriculum Vitae with a list of publications is required to demonstrate competence in specific areas of expertise.

More on COST Experts:

[www.cost.eu/participate/experts](http://www.cost.eu/participate/experts)





# COST OPEN CALL

One-stage submission process (on line tool)

New **Submission, Evaluation, Selection and Approval (SESA)** procedure follows the subsequent phases:

- **SUBMISSION:** by a **Main Proposer** on behalf of a network of proposers
- **EVALUATION :**
  - External Remote Evaluation by **Individual External Experts**
  - Revision and Quality Check by *Ad hoc* **Review Panels**
- **SELECTION:** **COST Scientific Committee (SC)**
- **APPROVAL:** **COST Committee of Senior Officials (CSO)**



# Network of Proposers

- **At least 5 proposers** (one Main Proposer plus at least 4 Secondary Proposers)
  - affiliated to legal entities based in at least 5 different COST Countries and/or Cooperating State
- Main Proposer acts as **coordinator and contact point** for the COST Association
  - also in charge of inviting and accepting Secondary Proposers to the Network
- All proposers must have a registered and updated **e-COST profile** and specify their scientific expertise
  - <http://www.cost.eu/ecost>



# GPPQ – dupla tutela

---

**FCT**

Fundação para a Ciência e a Tecnologia  
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA



AGÊNCIA NACIONAL  
DE INOVAÇÃO



# GPPQ – Quem somos

---

**21 full time professional NCPs** coming from the academia and industry/business with a deep knowledge of their respective R&D sector, players and available capacities in Portugal



**All NCPs are experts in the Programme Committee**

---

# FCT

Fundação para a Ciência e a Tecnologia  
MINISTÉRIO DA EDUCAÇÃO E CIÊNCIA



AGÊNCIA NACIONAL  
DE INOVAÇÃO





## Gabinete de Promoção dos Programa Quadro ID&I