



Gabinete de Promoção dos
Programa Quadro ID&I

European Research Council (ERC): Challenges and Opportunities

Instituto Politécnico de Bragança

Bragança

16 Setembro 2015



European Research Council

**Supporting top researchers
from anywhere in the world**

ERC - Since 2007... A success story!

- ✓ Highly recognized by the research community
- ✓ Over 5000 top researchers funded (celebration on 16 Jun)
- ✓ Growing number of articles in scientific journals and prizes
- ✓ Highly competitive (success rate ~10%)
- ✓ Efficient and fast grant management
- ✓ Eleven Nobel Prize Laureates



HORIZON 2020



Three pillars

Excellent Science

Industrial Leadership

Societal Challenges



ERC - Grant schemes

Starting Grants
(2-7 years after PhD)
up to € 2.0 Mio
for 5 years

Consolidator Grants
(7-12 years after PhD)
up to € 2.75 Mio
for 5 years

Advanced Grants
track-record of
significant research
achievements in
the last 10 years
up to € 3.5 Mio
for 5 years

General aspects

The PI may be of any age and nationality and may reside in any country in the world at the time of the application

Research must be conducted in a public or private research organization (Host Institution/HI) **located in one of the EU Member States or Associate Countries**

Portability: It is expected that the PI establishes and concludes the funded research project in association with the original host. However, the ERC grants allow PIs to transfer their projects from one host to another in the course of the project.

Research teams are headed by a **single Principal Investigator (PI)** + additional team members (6 members average) - it is neither a network, nor a 'research consortium'

What kind of research can be funded?

Any field of research with particular emphasis on the frontiers of science, scholarship and engineering

ERC encourages:

- Proposals of an interdisciplinary nature which cross the boundaries between different fields of research
- Pioneering proposals addressing new and emerging fields of research
- Proposals introducing unconventional, innovative approaches and scientific inventions

What kind of research can be funded?

Any field of research with particular emphasis on the frontiers of science, scholarship and engineering

Research with a high-gain/high-risk pioneering projects

If successful, the payoffs will be very significant, but there is a higher-than-normal risk that the research project does not entirely fulfil its aims

*Evaluators will pay particular attention to the **ground-breaking** nature of the research project and the **feasibility** of the outlined scientific approach*

Starting and Consolidator Grants

Starting Grant	Consolidator Grant
The PI must have been awarded his/her first PhD at least 2 and up to 7 years prior to the publication date of the call for proposals	The PI must have been awarded his/her first PhD at least 7 and up to 12 years prior to the publication date of the call for proposals
Extensions to this period may be allowed in case of eligible career breaks	
Up to € 1.5 million (in some circumstances up to € 2 million) (100% direct costs + 25% indirect costs)	up to € 2 million (in some circumstances up to € 2.75 million) (100% direct costs + 25% indirect costs)
Duration: up to 5 years	
PIs expected to spend a minimum 50% of their total working time on the ERC project and a minimum of 50% of their total working time in an EU Member State or Associated Country	
<ul style="list-style-type: none">• Maternity (18 months for each child born <u>before or after</u> the PhD award); NO LIMITS!!!!• Paternity (documented amount of paternity leave actually taken for each child born <u>before or after</u> the PhD award);• Long-term illness, clinical training or national service (the effective elapsed time since the award of the first PhD documented of leave actually taken by the PI for each incident which occurred <u>after</u> the PhD)	

What makes a competitive candidate?

Competitive Starting Grant

Must have already shown the potential for research independence and evidence of maturity. e.g.: **at least one** important publication without the participation of their PhD supervisor

Competitive Consolidator Grant

Must have already shown research Independence and evidence of research maturity. e.g.: **several** important publications without the participation of their PhD supervisor

Promising **track-record of early achievements** appropriate to their research field and career stage.

e.g.: significant publications (main author) in major international peer-reviewed multidisciplinary scientific journals, or in the leading international peer-reviewed journals of their respective field; invited presentations in well-established international conferences, granted patents, awards, prizes etc.

“Applicants are encouraged to evaluate their track-record and leadership potential against the above-mentioned benchmarks that have been adopted by the Scientific Council, in order to decide for themselves their likelihood for success, thus avoiding to invest effort in proposals that are very unlikely to succeed.”

Application Form

Part A To be filled out online	Administrative information about the project and the Principal Investigator	
Part B – Section 1 PDF to be uploaded <i>To be evaluated in step 1</i>	<i>Extended Synopsis</i> <i>5 pages</i>	Concise presentation of the scientific proposal , with particular attention to the ground-breaking nature of the research project and the feasibility of the outlined scientific approach.
	<i>Curriculum Vitae</i> <i>2 pages</i>	Standard academic and research record and succinct ‘funding ID’
	<i>Early achievements track-record</i> <i>2 pages</i>	publications; invited presentations in well-established international conferences, granted patents, awards, prizes etc
Part B - Section 2 PDF to be uploaded <i>To be evaluated in step 2</i>	<i>Scientific Proposal</i> <i>15 pages</i>	<ol style="list-style-type: none">State of the art and objectivesMethodologyResources (incl. project costs)Ethical and Security sensitivity Issues

Advanced Grants

Advanced Grant

Applicants must be **scientifically independent** and have a recent research track-record and profile which identifies them as **leaders in their respective field(s) of research**

up to € 2.5 million per grant
(in some circumstances up to € 3.5 million per grant)
(100% direct costs + 25% indirect costs)

Duration: up to 5 years

PIs expected to spend a minimum **30%** of their total working time on the ERC project and a minimum of **50%** of their total working time in an EU Member State or Associated Country

Application Form

Similar to Starting and Consolidator, except:

Part B – Section 1
10-year track-record
2 pages

Activity over the past 10 years (dated from the deadline of the call):

1. Highlight ten **representative publications**, as senior author
- 2.3 **major research monographs**, chapters in collective volumes and any translations thereof
- 3.5 granted patents (if applicable)
- 4.10 **invited presentations** to peer-reviewed, internationally established conferences and/or international advanced schools (if applicable)
- 5.3 research expeditions that the applicant has led (if applicable)
- 6.3 **organisation of International conferences** in the field of the applicant (membership in the steering and/or programme committee) (if applicable)
7. International **Prizes/Awards/Academy** memberships (if applicable)
8. Major contributions to **early careers of excellent researchers** (if applicable)
9. Examples of leadership in industrial innovation (if applicable)

Evaluation

Excellence is the sole criterion for selection



Under revision

Evaluation Panels

25 peer review evaluation panels (ERC panels), subdivided into three main research domains:

- ✓ Physical Sciences and Engineering (10 Panels)
- ✓ Life Sciences (9 Panels)
- ✓ Social Sciences and Humanities (6 Panels)

Panel chair and members chosen by the **Scientific Council**

Ações Marie Slodowska-Curie

Oportunidades de financiamento no Horizonte 2020

16 Setembro 2015

Instituto Politécnico de Bragança



Gabinete de Promoção do Programa Quadro ID&I

FCT
Fundação para a Ciência e a Tecnologia



AGÊNCIA NACIONAL
DE INOVAÇÃO



Marie Skłodowska-Curie actions for every step of your career

Considering a doctoral degree?

Experienced researcher looking for international experience to boost your career?

Looking for partnerships between academic and non-academic organisations or staff exchanges?

Keen on outreach activities?



There is a Marie Skłodowska-Curie action for you!

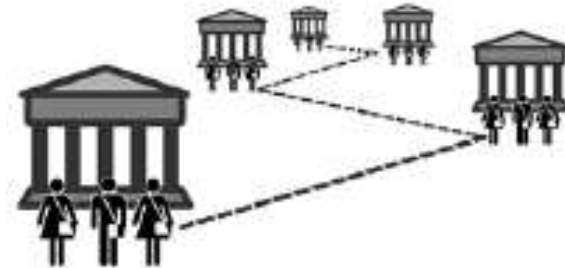
Post-doctoral Fellowships

Staff Exchange (managerial, technical)



IF

Individual Fellowships



RISE

Research and Innovation
Staff Exchange

Doctoral degrees



ITN

Innovative Training Networks



COFUND

Also for post-doctoral programmes

Marie Skłodowska-Curie actions

Support the research career

Mobility, cross-border and cross-sector

- Opportunities **to work and train** with the best researchers in Europe and worldwide
- Exchanges between academia/industry (*staff exchange*)

Charter & Code - European Charter for Researchers & Code of Conduct for the Recruitment of Researchers

Horizon 2020

European Union programme
for research and innovation
2014-2020



- responding to the economic crisis to invest in jobs and growth
- addressing people's concerns about their livelihoods, safety and environment
- strengthening the EU's global position in research, innovation and technology

Marie Skłodowska-Curie actions

Aim: develop new knowledge / enhance skills of people behind research and innovation

Operate in a 'bottom-up' basis , covering **all scientific domains**

Level of **involvement is proportional to the participant's needs**

Strong accent on **participation of industry, SMEs and non-academia**
overall

What can be funded?

1) Organisational costs

Research, networking and training costs

Management and indirect costs

2) Costs of researchers and seconded staff

Living allowance or Top-up allowance

Mobility allowance

Family allowance

- ✓ 100% in ITN, IF and RISE
- ✓ 50% in Co-funding for doctoral and fellowship programmes

Who applies?

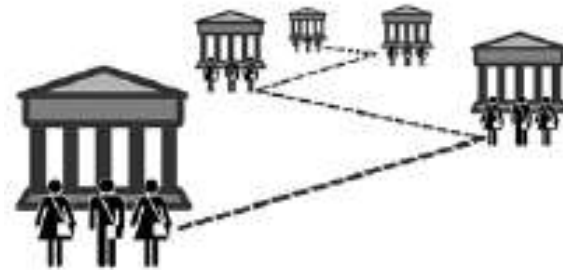
Individual with organisation



IF

Individual Fellowships

Hosts (consortium)



RISE

Research and Innovation
Staff Exchange

Hosts (consortium)



ITN

Innovative Training Networks

Funder



COFUND

Innovative Training Networks (ITN)

- ✓ **Raise excellence and structure research and doctoral training**
- ✓ Train a new generation of **creative, entrepreneurial and innovative early-stage researchers**
- ✓ Trigger **cooperation and exchange of best practice** among participants
- ✓ **Enhance researchers' employability** and provide them with new career perspectives
- ✓ **Triple 'i' dimension** of mobility and particular **focus on innovation skills**
- ✓ **Budget: € 370 Million** in 2015 (EID: 25 Mio, EJD 28 Mio)

**European
Industrial
Doctorates (EID)**

**European
Training
Networks (ETN)**

**European
Joint
Doctorates (EJD)**

Innovative Training Networks (ITN)

Country 1



Inter-sectoral partnerships for doctoral training

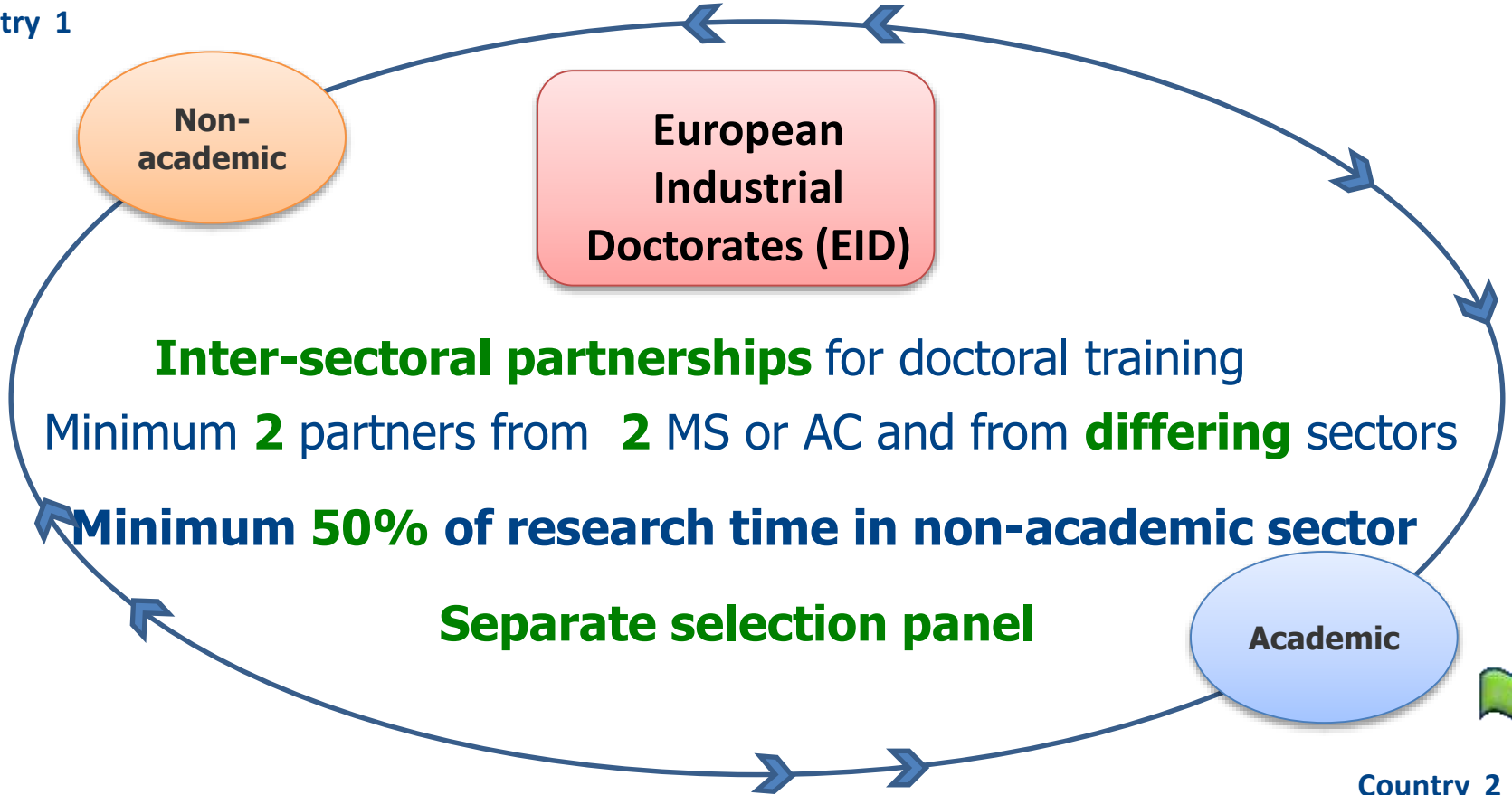
Minimum **2** partners from **2** MS or AC and from **differing** sectors

Minimum **50%** of research time in non-academic sector

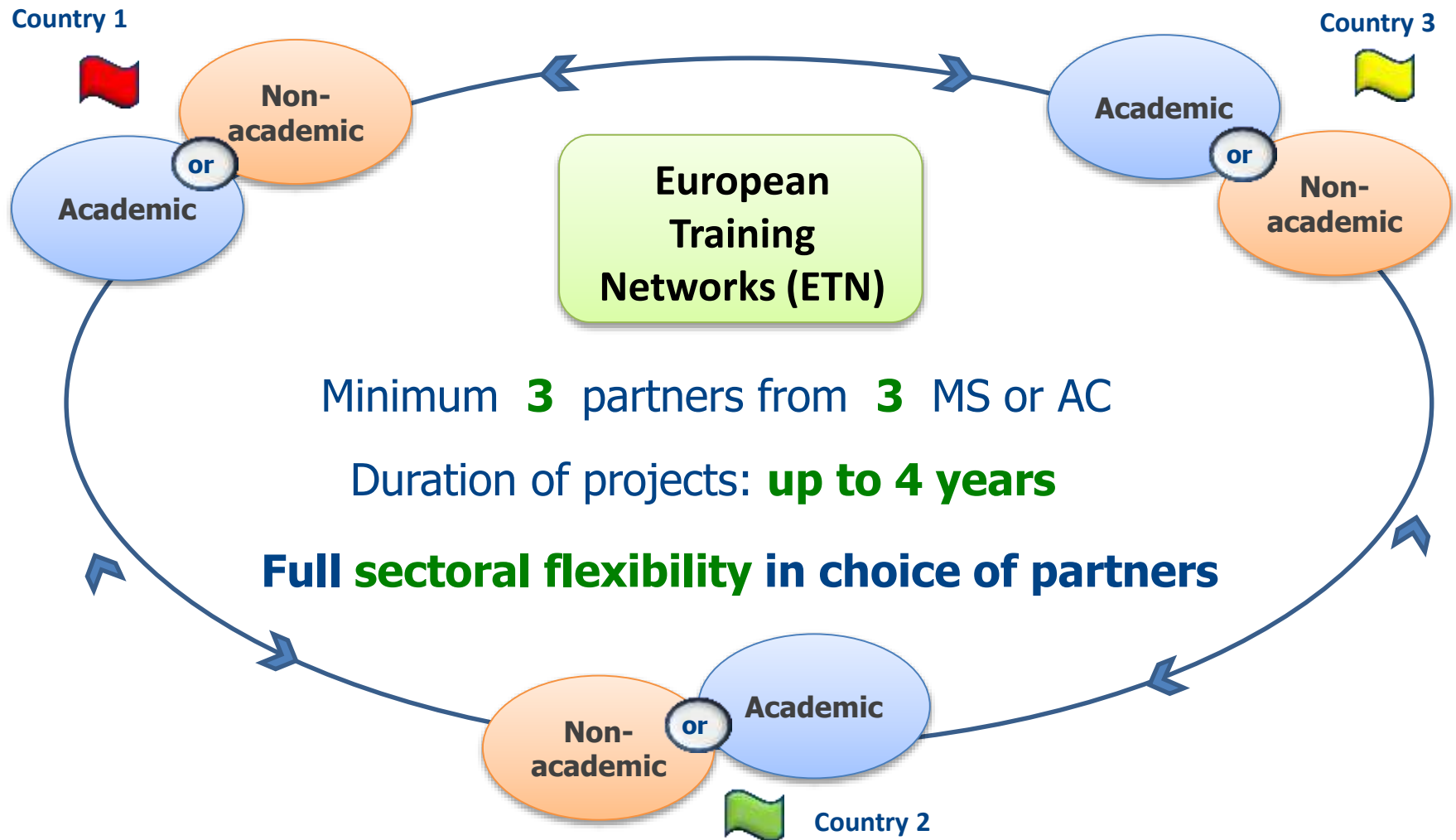
Separate selection panel



Country 2



Innovative Training Networks (ITN)



Innovative Training Networks (ITN)

Country 1



Academic

Country 2



Academic

European
Joint
Doctorates (EJD)

Collaboration between **academic** organisations entitled to award doctoral degrees

Minimum **3** partners from **3** MS or AC

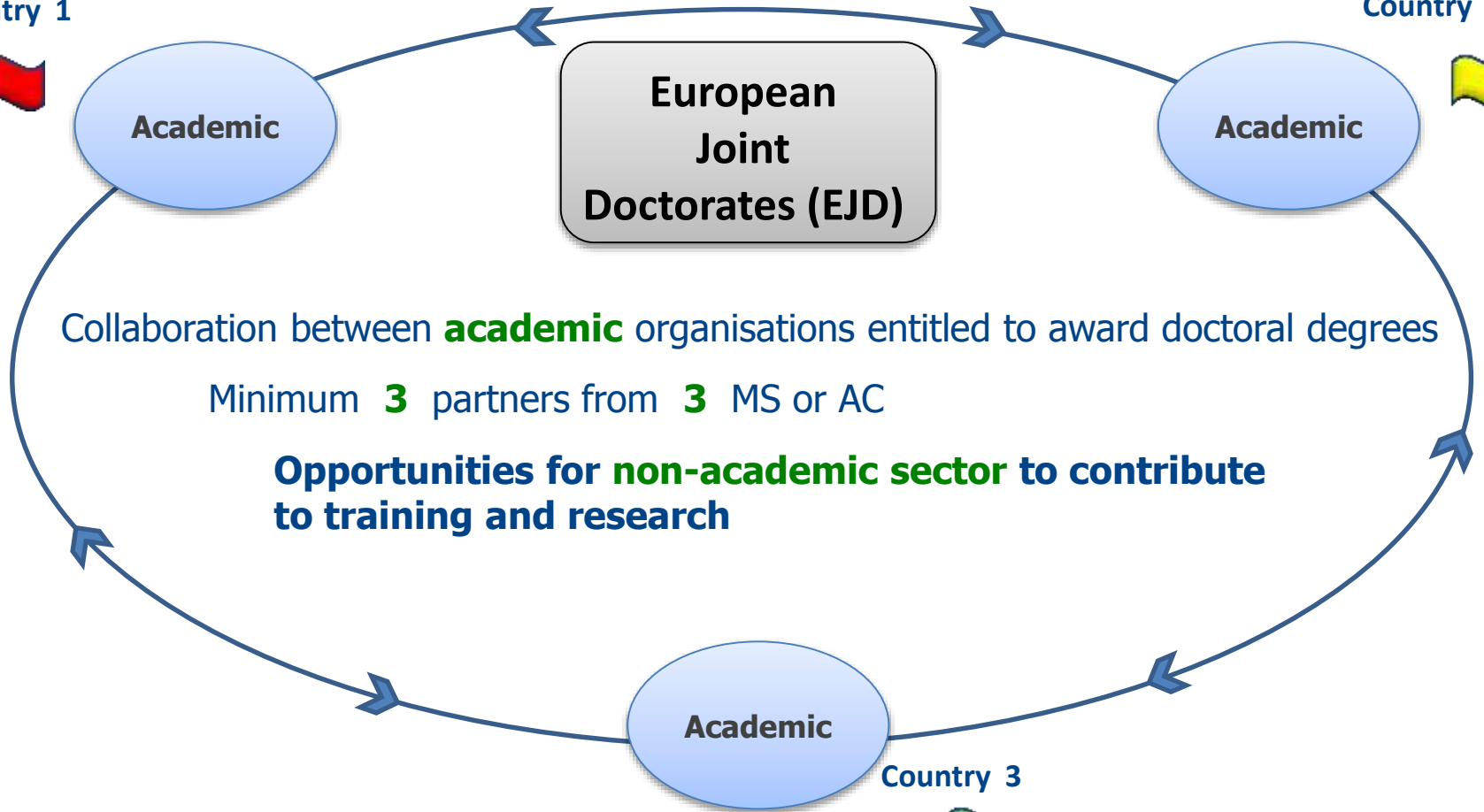
Opportunities for non-academic sector to contribute to training and research

Academic

Country 3



Education
and Culture



ITN – Financial Dimension



ITN
Innovative Training Networks

Unit costs expressed in person-months

Research, networking, training costs	1800 €
Management and indirect costs	1200 €

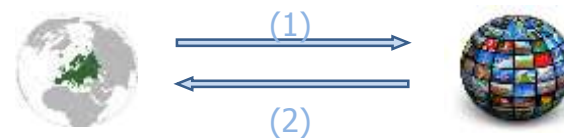
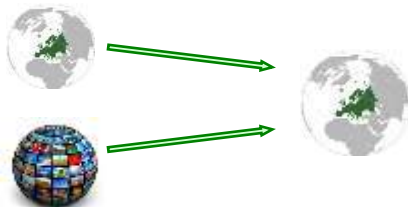
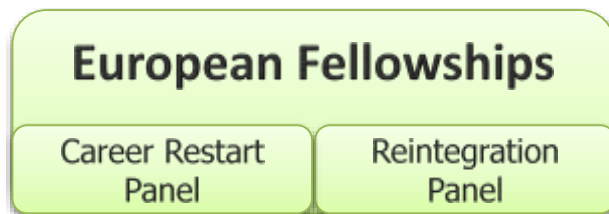
Living allowance*	3110 [§] €
Mobility allowance	600 [§] €
Family allowance	500 [§] €

- The living allowance base rate is multiplied by Country Correction Coefficient

§ Amount quoted is gross amount before deductions

Individual Fellowships (IF)

- ✓ enhance the creative and innovative potential of **experienced researchers**
- ✓ provide opportunities to **acquire new knowledge, work on research projects in a European context or outside Europe**
- ✓ catalyse significant **development in their careers** in both sectors
- ✓ **strengthen the network** of the researcher and the host organisation
- ✓ **Budget: € 215 Million** in 2015 (Global Fellowships: 27 Mio)



IF – Financial Dimension



IF

Individual Fellowships

Unit costs expressed in person-months

Research, networking, training costs	800 €	Living allowance*	4650 [§] €
Management and indirect costs	650 €	Mobility allowance	600 [§] €
		Family allowance	500 [§] €

- The living allowance base rate is multiplied by Country Correction Coefficient

§ Amount quoted is gross amount before deductions

COFUND

- ✓ by **co-funding** new or existing regional, national, and international programmes
- ✓ Promote **international, intersectoral and interdisciplinary research training**, as well as transnational and cross-sector **mobility** of researchers at all stages of their career
- ✓ Mono-beneficiary: **organisation funding or managing doctoral or post- doctoral programmes**
- ✓ **Leverage funding** and combat fragmentation (possible synergies with ESIF)
- ✓ **Spread MSCA best practices**
- ✓ **Budget: € 80 Million** in 2015 (Doctoral Programmes: 30 Mio)

Doctoral
Programmes

ESR

Fellowship
Programmes

ER



COFUND

COFUND – Financial Dimension

Unit costs expressed in person-months
(co-funding rate of 50%)

Management costs	650* €	Living allowance <i>Early-stage researchers</i>	3710* €
		Living allowance <i>Experienced researchers</i>	5250* €

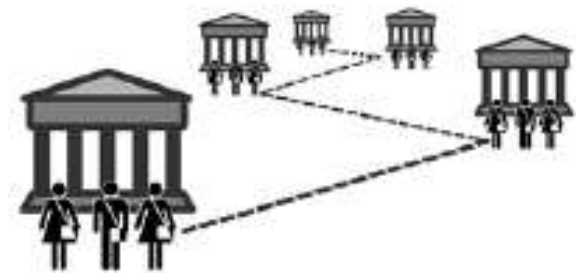
- co-funding rate of 50%



COFUND

RISE – Research and Innovation Staff Exchange

- ✓ Strengthen the interaction between academic and non-academic organisations, and between Europe and third countries, through **research and innovation staff** exchanges
- ✓ International and inter-sector **transfer of knowledge** and sharing of ideas and of R&I culture
- ✓ At least **3 independent** participants in **3 different countries**
 - At least 2 participants from 2 different MS/AC (international)
 - If all in MS/AC: at least 1 academic and 1 non-academic
- ✓ Common **research and innovation project**
- ✓ Highly skilled research and innovation staff



RISE

Research and Innovation
Staff Exchange

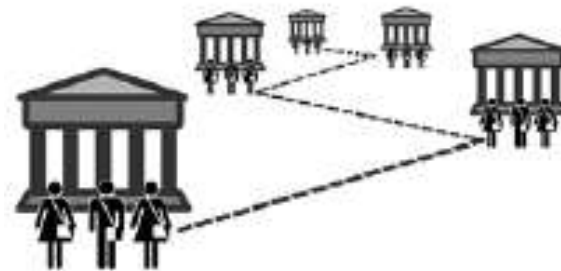
RISE – Financial Dimension

Unit costs expressed in person-months

Seconded staff

Research, networking, training costs	1800* €	Staff member Top-up allowance	2000* €
Management and indirect costs	700* €		

- Funding rate of 100%



RISE

Research and Innovation
Staff Exchange

Responsible Research and Innovation

Open science (obligation)

Gender (always mention in proposal)

Ethics (always consider in proposal)

Public engagement (iterative and inclusive participatory multi-actor dialogues)

Science education

Outreach and communication

Outreach

- is an activity of providing information to populations who might not otherwise have access to this information
- explains the benefits of research to a larger public (the tax payers who fund your research) there is an engagement and a two-way communication between the researcher and the public
- includes school presentations, workshops, public talks and lab visits, etc.

Communication

- refers to articles in mainstream newspapers and magazines, or on TV and radio channels
- requires a clear language and attractive scientific subject with outstanding results that can catch the media's attention

Dissemination targets a scientific audience that may be interested in the research results

Participant portal



RESEARCH & INNOVATION

European Commission

Participant Portal

European Commission > Research & Innovation > Participant Portal > Calls

HOME

FUNDING OPPORTUNITIES

HOW TO PARTICIPATE

EXPERTS

SUPPORT

Search PP



LOGIN



REGISTER

EU Programmes 2014-2020

Search Topics

Call Updates



Calls



H2020

Research Fund for Coal & Steel

COSME

3rd Health Programme

Consumer Programme

Calls for Proposals



Horizon 2020

Advanced search for topics
Calls for tenders on TED

- Excellent Science
 - European Research Council (ERC)
 - Future and Emerging Technologies (FET)
 - Marie-Sklodowska-Curie Actions
 - Research Infrastructures
- Industrial Leadership
 - Leadership in enabling and industrial technologies (LEIT)
 - Information and Communication Technologies

Status

Forthcoming

Open

Closed

MSCA

FILTER

Sort by

(Planned) Opening Date

Deadline

Call title

Call identifier

Excellent Science
COFUND - Co-funding of Regional,

Excellent Science
Individual Fellowships (IF)

Participant portal

Call description

Call documents

Get support

Call summary

Objective:

The goal of Individual Fellowships is to enhance the creative and innovative potential of experienced researchers

+ More

Call updates

- 22-05-2015 16:45:53

Please note that a revised version of the Guide for Applicants has been uploaded.

+ More

Topics and submission service

To access the **Submission Service**, please **select the TOPIC** of your interest and then open the Submission Service tab.

To access **existing draft proposals**, please login to the portal and select My Proposals from the My Area menu.

Topic: [MSCA-IF-2015-EF: Marie Skłodowska-Curie Individual Fellowships \(IF-EF\)](#)

Topic: [MSCA-IF-2015-GF: Marie Skłodowska-Curie Individual Fellowships \(IF-GF\)](#)

Participant portal

[Call description](#)

[Call documents](#)

[Get support](#)

A proposal is submitted to a specific topic. The full set of information for preparing a proposal for a topic (eligibility and evaluation conditions, proposal templates, evaluation forms, etc.) is available on the topic conditions page. Select a topic from the call description page or go to [Search Topics](#).



Download all documents

(EN only, incl. the additional docs.)

[Legal basis - Specific Programme H2020 en](#)

[Legal basis - Framework Programme H2020 en](#)

[WP H2020 - 1. Introduction en](#)

[WP H2020 - 3. Marie Skłodowska-Curie Actions \(MSCA\) en](#)

[Legal basis - Rules for Participation en](#)

[WP H2020 - 19. General Annexes en](#)

[Frequently Asked Questions IF 2015 en](#)

[Guide for Applicants IF 2015 en](#)

[MSCA List of Descriptors IF 2015 en](#)

[Ethics - Guidance to complete the ethics self-assessment en](#)

Participant Portal FAQ – Submission of proposals

National Contact Points (NCP)

Enterprise Europe Network – national contact points' advice to businesses with focus on SMEs. The support includes guidance on the EU research funding.

Research Enquiry Service – ask questions about any aspect of European research and EU R&I programmes

IT Helpdesk – contact the IT helpdesk for questions such as forgotten passwords, access rights and roles, technical aspects of submission of proposals, etc.

Ethics – for compliance with ethical issues, see the [Participant Portal](#) and [Science and Society Portal](#)

European IPR Helpdesk assists you on intellectual property issues

The European Charter for Researchers and the Code of Conduct for their recruitment

CEN and **CENELEC**, the European Standards Organisations, advise you how to tackle standardisation in your project proposal. Contact CEN-CENELEC Research Helpdesk at research@cencenelec.eu.

Partner Search Services help you find a partner organisation for your proposal

H2020 Online Manual your online guide on the procedures from proposal submission to managing your grant

Award Criteria

Excellence	Impact	Implementation
Quality, innovative aspects and credibility of the research (including inter/multidisciplinary aspects)	Enhancing research- and innovation-related human resources, skills and working conditions to realise the potential of individuals and to provide new career perspectives	Overall coherence and effectiveness of the work plan, including appropriateness of the allocation of tasks and resources
Clarity and quality of transfer of knowledge/training for the development of researcher in light of the research objectives	Effectiveness of the proposed measures for communication and results dissemination	Appropriateness of the management structures and procedures, including quality management and risk management
Quality of the supervision and the hosting arrangements		Appropriateness of the institutional environment (infrastructure)
Capacity of the researcher to reach or re-enforce a position of professional maturity in research		Competences, experience and complementarity of the participating organisations and institutional commitment
Weighting		
50%	30%	20%
Priority in case of <i>ex aequo</i>		
1	2	3

MSCA Calls 2016*

ITN	30/09/2015 – 12/01/2016	EUR 370 million
IF	12/04/2016 – 14/09/2016	EUR 218 million
RISE	16/12/2015 – 28/04/2016	EUR 80 million
COFUND	14/04/2016 – 29/09/2016	EUR 80 million
NIGHT	30/09/2015 – 12/01/2016	EUR 8 million

* To be officially approved

MSCA Workflow

Application

Find a
Call

Find Partners
or Apply as
Individual

Create your
account on the
Participant Portal

Register your
organisation

Submit
your
proposal



NCP

Evaluation

3 independent experts



Grant Agreement

For successful applicants : TIME-TO-GRANT = 8 MONTHS



Electronic signature of GA via the Participant Portal

New structure of GA: legal provisions all in 1 document

Reporting

Periodic Report: *technical and financial*

and/or

Final Report: *technical and financial*

**Start today on
your application!**

margarida.santos@gppq.pt
mafalda.dourado@gppq.pt

[**http://www.gppq.fct.pt/h2020/**](http://www.gppq.fct.pt/h2020/)

