

MSCA in Horizon 2020 ... and beyond...

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DG EAC

Marie Skłodowska-Curie Actions
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Reminder: MSCA in Horizon 2020

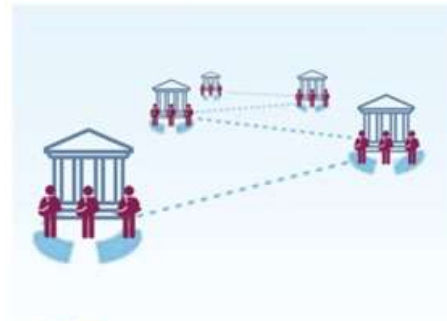
- Supporting researcher training and career development
- Funding excellent research, bottom-up
- Promoting researcher mobility
- Stimulating international, inter-sectoral and interdisciplinary cooperation
- Impacting researcher careers, organisations, structures



ITN
Innovative
Training Networks



IF
Individual
Fellowships



RISE
Research and Innovation Staff
Exchange



COFUND
Co-Funding of Regional, National and
International Programmes

European
Researchers'
Night

MSCA in Horizon 2020



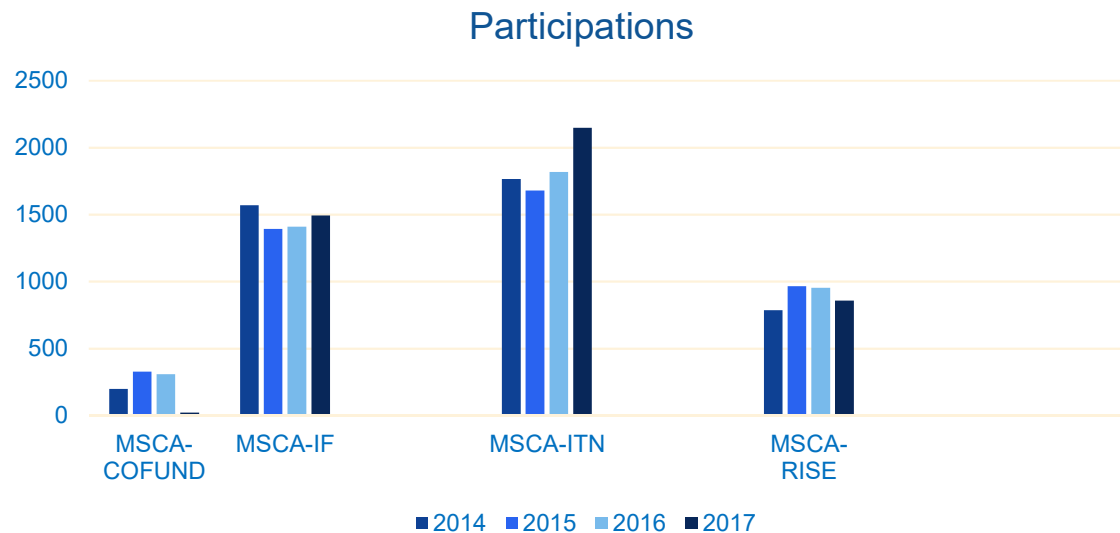
EUR 6.16 billion



Support for 65,000 researchers, among them 25,000 PhDs



More than 30,000 participations



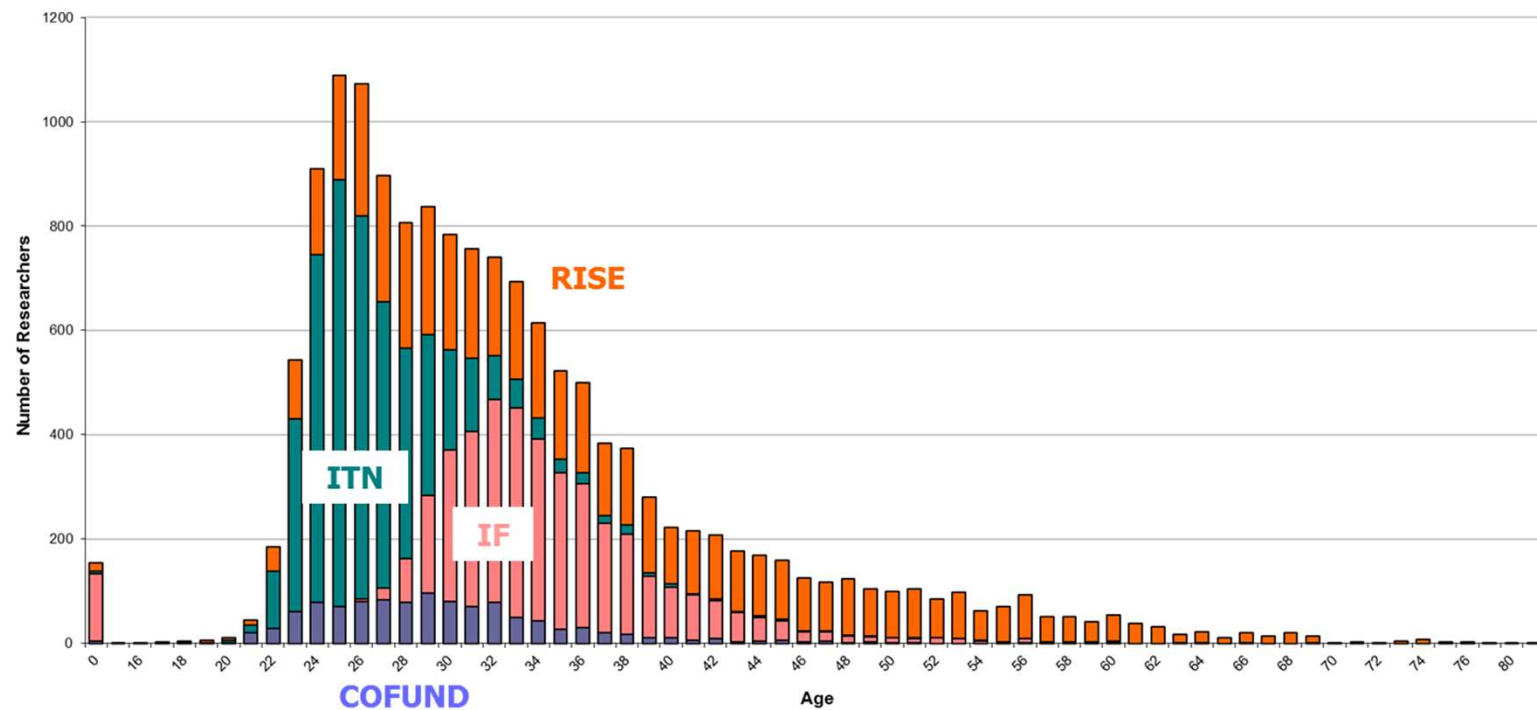
H2020 Interim Evaluation Assessment of MSCA

- attractive, efficiently run
- providing real EU added value (on careers, institutions, society)
- open to the world, gender-balanced
- widely appreciated, systematically oversubscribed

Several recommendations already taken on board in H2020

MSCA – who participates?

- Complementarity: ITN > ESR, IF > ER, RISE & COFUND > all
- MSCA for young researchers below 40 years
- Gender balance – almost there...



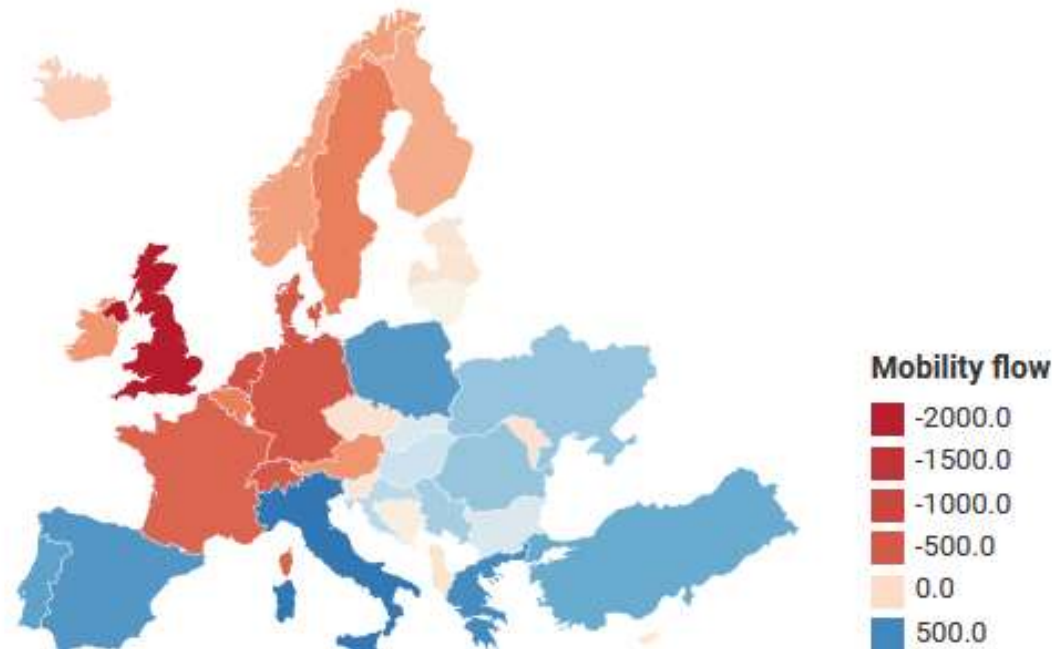
ESR = early-stage researcher
ER = experienced researcher

MSCA – promoting researcher mobility

- Increase in variability and strength of flows
- Regional imbalances remain - North-West vs. South-East
- United Kingdom – a special case today and tomorrow

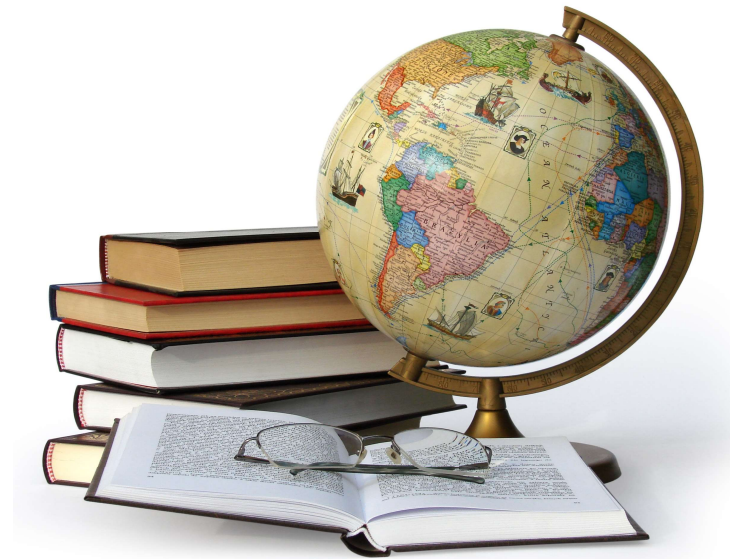
Mobility flow of MSCA fellows

Difference between nationality of MSCA fellows and country of the host institutions



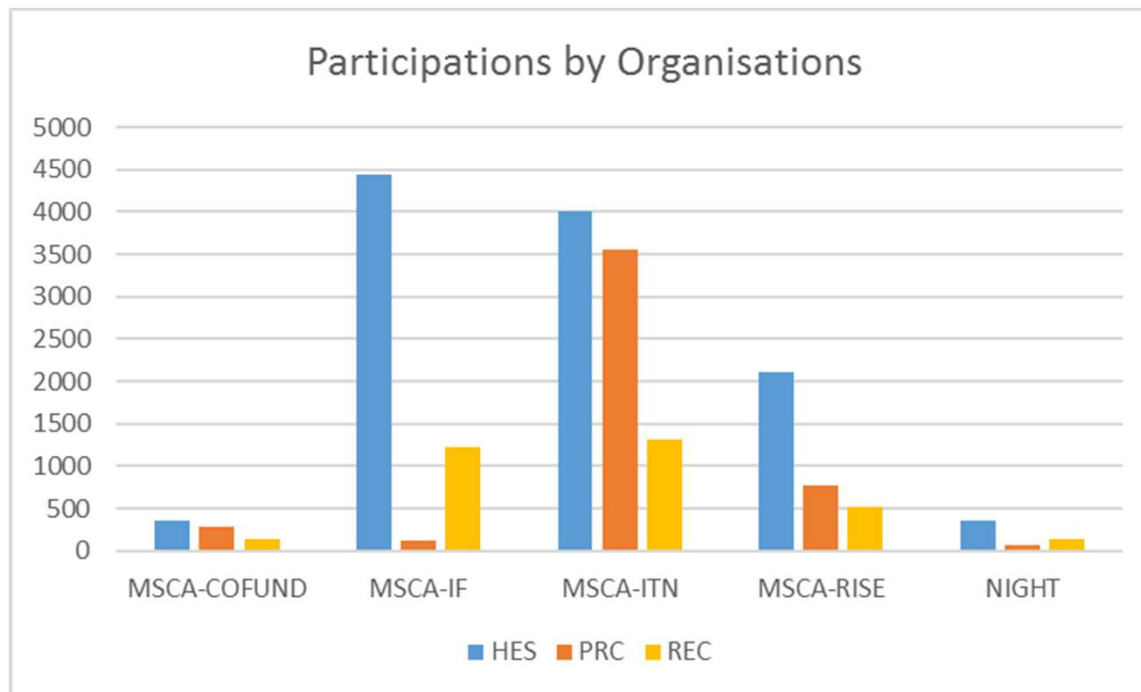
Horizon 2020's most international programme

- Strong integration of Associated Countries
- More than half of all Third Country participations in H2020
- 80% of all US participations
- MSCA funding for 140 nationalities
- 1/4 of MSCA fellows from beyond EU MS/AC
- Imbalances between Third Countries remain

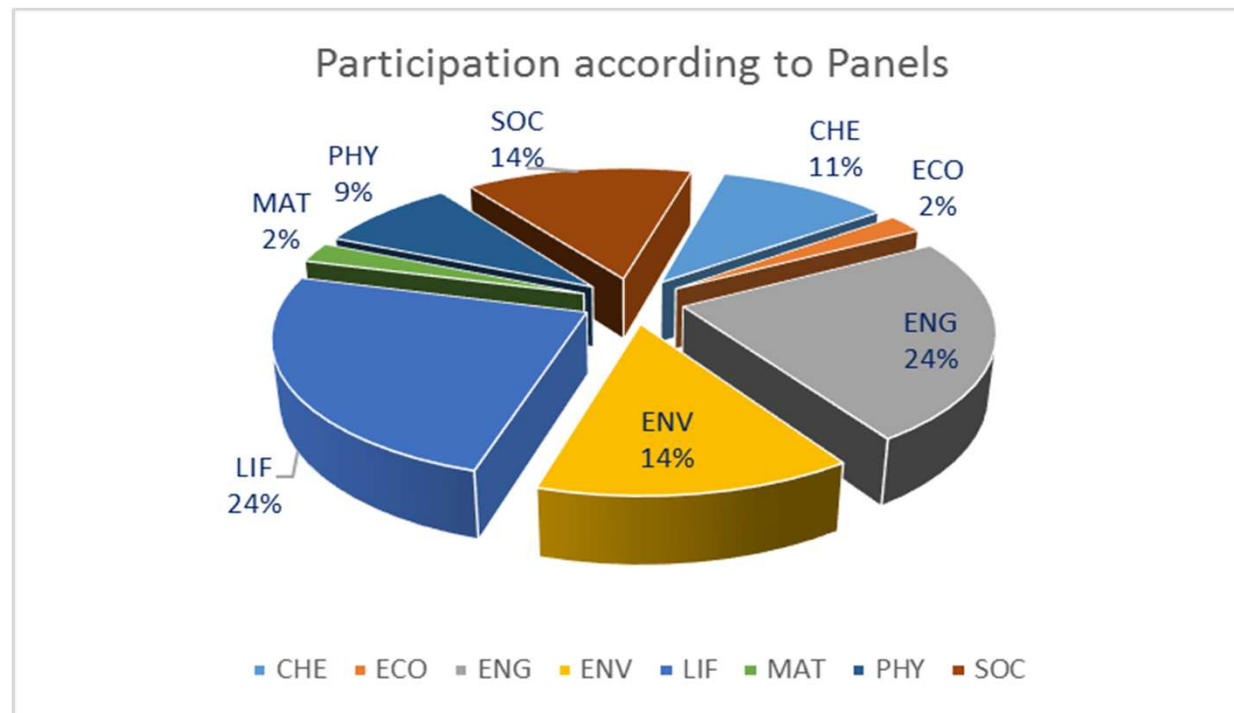


MSCA – bridging the intersectoral gap

- MSCA projects increasingly linking academic to non-academic partners
- 25% of MSCA participations (beneficiary and partner) by private companies.
- ITN and RISE creating strong links, IF mainly in Higher Education



MSCA – bottom up and interdisciplinary



- Even distribution of panels – a question of awareness?
- MSCA a leading support for Social Sciences and Humanities
- Increasing number of interdisciplinary projects, but potential for growth

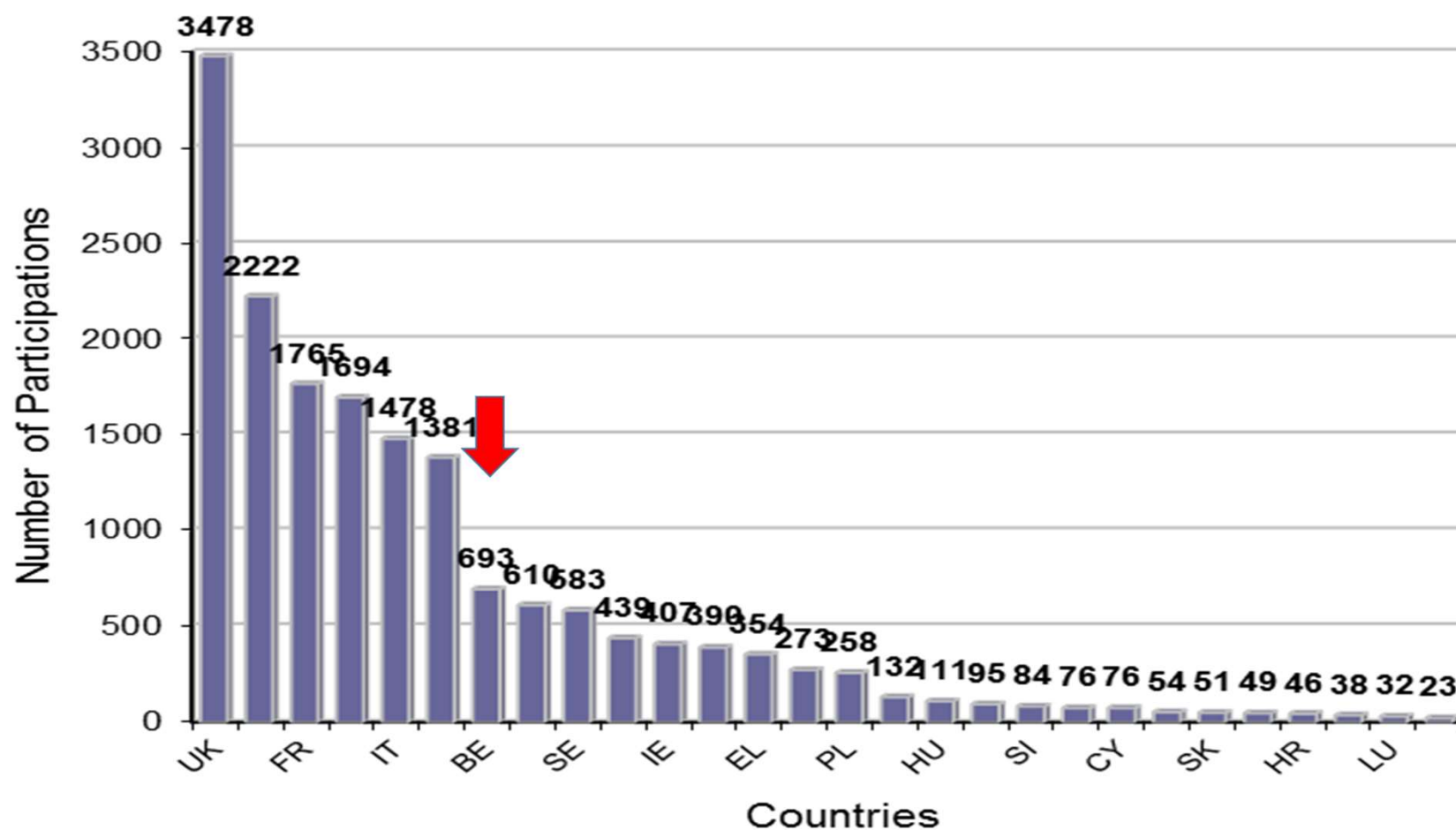
MSCA - impacts

- On Researchers***
- Boost for scientific career
 - New professional skills
 - Perspectives for non-academic career paths

- On Institutions***
- Opportunities for new scientific networks
 - Resources for fostering research excellence
 - New links between academia and private sector

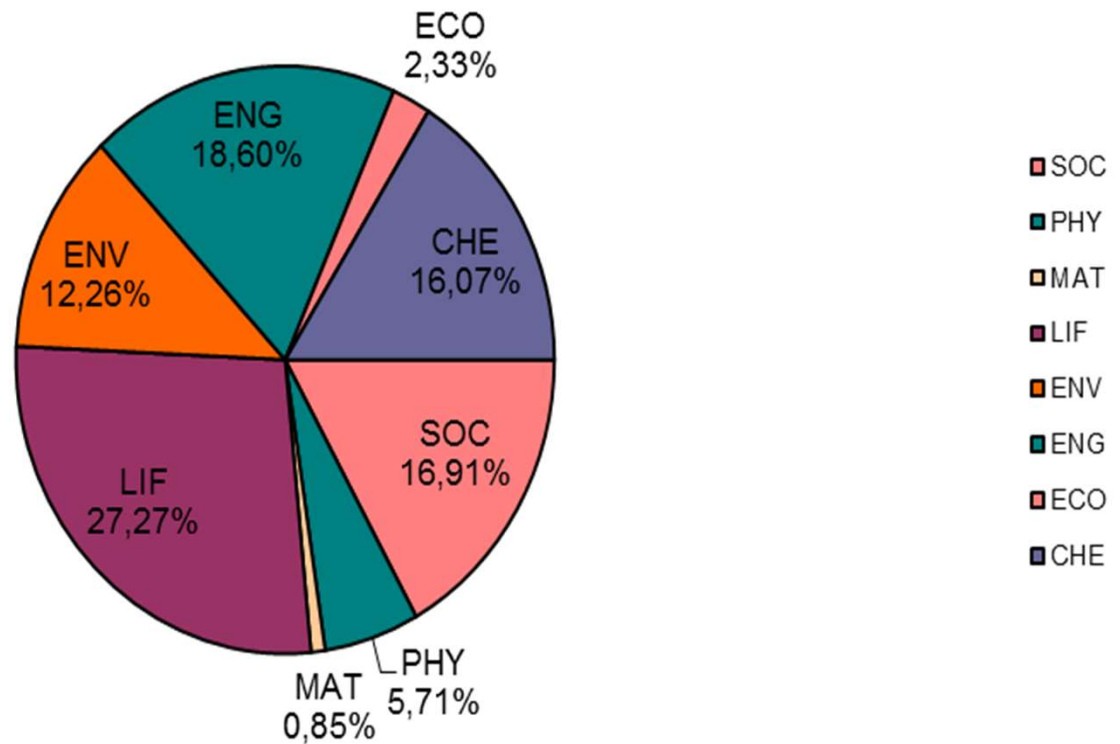
- On Structures***
- Opening up to global exchanges of scientific excellence
 - Catching up to global standards and best practices (i.a. Charter & Code)
 - Impetus for national policies on career management and intersectoral exchanges

Belgium in MSCA: figures (1)



Belgium in MSCA: figures (2)

Project distribution by scientific panel



Belgium in MSCA: figures (3)

Actions	Participations of BE organisations	BE Researchers involved	Researchers going to BE organisations	Number of Projects
IF	186	101	181	185
COFUND	20	31	0	15
ITN	443	79	335	248
RISE	44	55	112	55
Total:	693	266	628	488

Ranking (among MS):

Success Rate rate of BE applicants* : 12.16 % MS average: 13.39 %

Place	Ranking	BE		MS
7	No of applicants	6 366	4,51 %	141 090
8	EU contribution share (EUR million)	158.97	4,49 %	3 541.38
7	No of Participations of BE organisations	693	4,10 %	16 892

* Success rate is determined by dividing the number of successful organisation participations to the number of eligible applying organisations.

MSCA in Horizon 2020 – lessons learned

- Remain focussed on scientific excellence, mobility, career development
- Keep the bottom-up approach
- Support novelty and innovation
- Address demand management
- Increase synergies with other programmes
- Clarify, simplify, ensure internal coherence



Let's do something about it in Horizon Europe!

MSCA and Horizon Europe - Objectives

HORIZON EUROPE objectives and structure

Support the creation and diffusion
of high-quality knowledge

Strengthen the impact of R&I
in supporting EU policies

Foster all forms of innovation and
strengthen market deployment

Optimise the Programme's delivery for impact in a strengthened ERA



Pillar 1
Open Science

European Research Council

Marie Skłodowska-Curie Actions

Infrastructures



Pillar 2
Global Challenges and
Industrial Competitiveness

Clusters

- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and natural resources

Joint Research Centre



Pillar 3
Open Innovation

European Innovation Council

European innovation ecosystems

European Institute of Innovation
and Technology

Strengthening the European Research Area

Sharing excellence

Reforming and Enhancing the European R&I system

A **EUR 100 billion** package investing in research and innovation for seven years (2021-2027), including Euratom

MSCA in Horizon Europe

- Investing in **the people behind R&I**, delivering talents and improving careers
- Overall: **continuation**
- Bottom-up, competition-based research programme
- Creating impact on researchers, institutions, structures
- 5 broad lines of activity:
 - *mobility of researchers*
 - *training of researchers*
 - *strengthening human capital across the ERA*
 - *facilitating synergies*
 - *promoting public outreach*



MSCA in Horizon Europe, supporting:



1. Doctoral Training Networks
2. Postdoctoral Fellowships
3. Staff Exchanges
4. Synergies
5. Science Festivals

→ *PhD students*

→ *postdocs*

→ *any type of research staff*

→ *co-funding training programmes*

→ *public outreach events*

MSC Actions in HE – Ideas

Evolution in the implementation

- **Streamlined actions**
- Continuation of simplified form of grants
- **Simpler rules, fine-tuned definitions**, harmonised conditions
- Demand management
- Internal coherence & external synergies

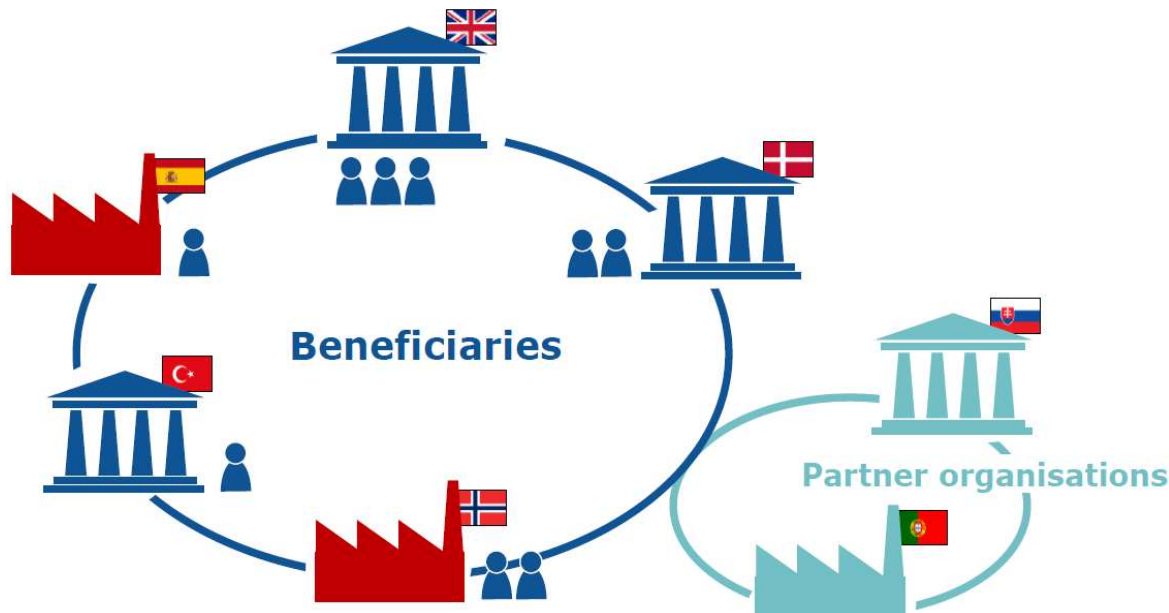


Managing the demand

- **Highly attractive programme, systematically oversubscribed**
 - Success rates decrease (7% for ITN in 2017)
 - Number of applications increase (>9,800 for IF in 2018)
- **Consequently:**
 - Increasing number of top quality applications remain unfunded (ITN, IF)
 - Increasing complexity to manage the proposal evaluation (IF)
- Exploring options to better manage the demand



Reminder: Innovative Training Networks (ITN)



Budget for 2018 call:

ETN: €375 M

EID: €32 M

EJD: €35 M

≥ 3 partners from MS/AC,
joint research programme
duration: 48 months
~ 15 PhD students

Exposure to non-academic
sector is strongly encouraged
Secondments possible
up to 6 months

European Industrial Doctorate
≥ 2 partners from different
sectors; *fellows ≥50% in non-*
academic sector

European Joint Doctorate
≥ 3 partners from MS/AC
Joint, double, or multiple
doctoral degree as deliverable

1. Doctoral Training Networks in HE

- **MSCA** will continue to support doctoral candidates
- Clarify and simplify
- Integrating objectives into a single action
- Manage demand, **improve success rates**



Reminder: Individual Fellowships (IF)

European Fellowships

For fellows coming to or moving within Europe
duration: 12-24 months (exceptionally to 36 months)

Standard (ST)

Career Restart Panel (CAR)

Re-integration Panel (RI)

Society & Enterprise Panel (SE)



1 host in Europe

Global Fellowships

For fellows from Europe going to Third Country
(12-24 months) & returning to Europe (12 months)



1 host in Europe + 1 partner organisation in Third Country

Budget for 2018 call:
EF: €228 M; GF: €45 M

2. Postdoctoral Fellowships in HE

- Continue supporting post-doctoral researchers
- Introduce focus on the **scientifically younger generation**
- Clarify and simplify, single action
- Deliver highly-skilled talents
- Contribute to closing the R&I divide

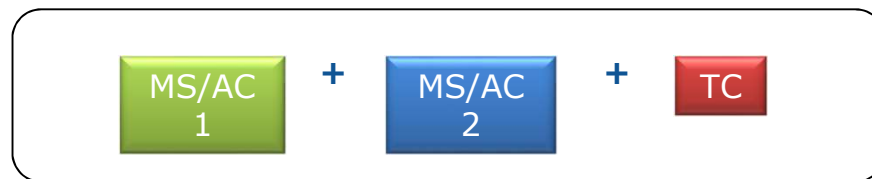


Reminder: Research and Innovation Staff Exchange (RISE)

- Two possible set-ups

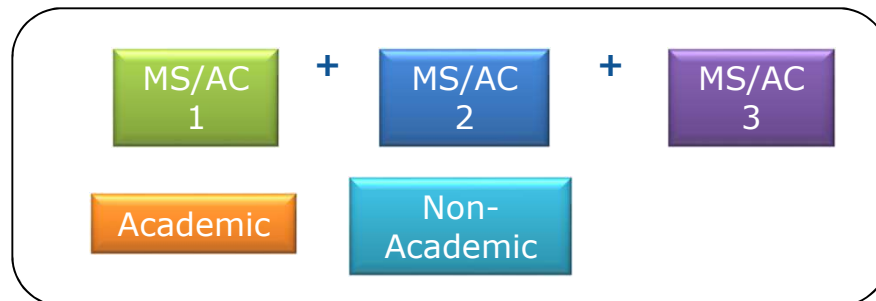
"International"

Secondments can be *intra-* or *inter-*sectoral



"European"

Secondments must be inter-sectoral



**Budget for
2018 call:
€80 M**

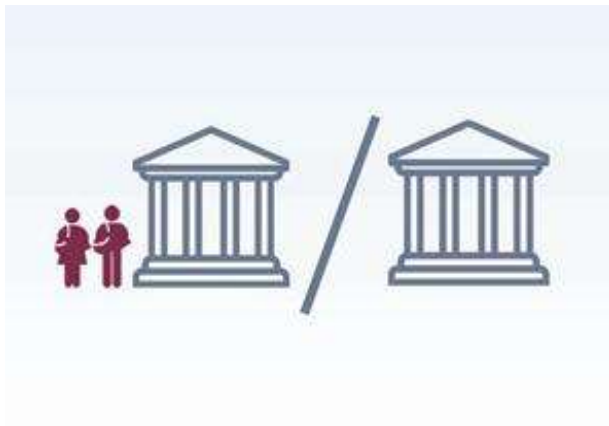
3. Staff Exchanges in HE

- Continue supporting staff exchanges, **open to any type of staff**
- Emphasis on the **added-value of the collaboration** itself
- Lean and flexible tool to support collaboration
- I³ approach



Reminder: COFUND

- Co-funding new or existing regional, national, and international doctoral and post-doctoral training & mobility programmes
- Mono-beneficiary action
- Aim: leverage funding and combat fragmentation



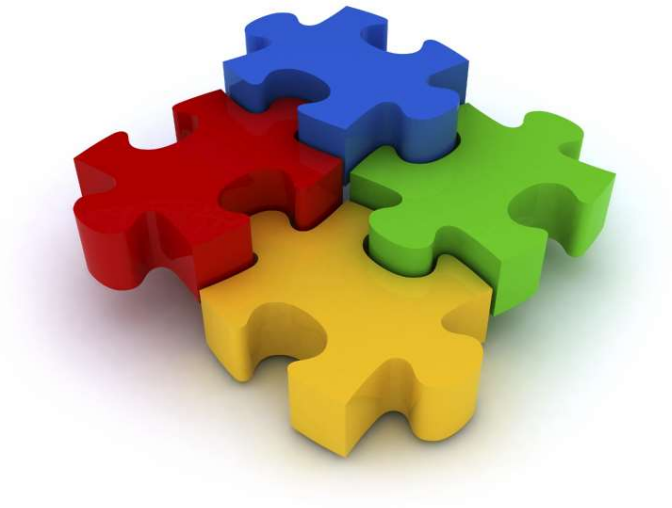
Budget for 2018 call:

Postdoctoral Programmes: €50 M

Doctoral Programmes: €30 M

4. Synergies in HE

- Continue **co-funding** national, regional, institutional schemes for
- Increase in total EU contribution
- Greater **focus on new beneficiaries** and new training programmes
- Facilitating synergies with Structural Funds



Internal coherence and external synergies

- **Synergies with other parts of Horizon Europe**
 - Linking with global challenges
 - Facilitating access to innovation/entrepreneurial activities
 - Strengthening the ERA
- **Synergies with other EU programmes**
 - Structural Funds
 - Education policies

Sharing excellence

- Maintain competition-for-excellence principle
- Contribute to strengthening the ERA
 - **Seal of Excellence**
 - **Widening Fellowships** pilot 2018-2020
 - Suggested novelty: **brain circulation** fellowship





Enjoy the discussions !

#HorizonEU

<http://ec.europa.eu/horizon-europe>