



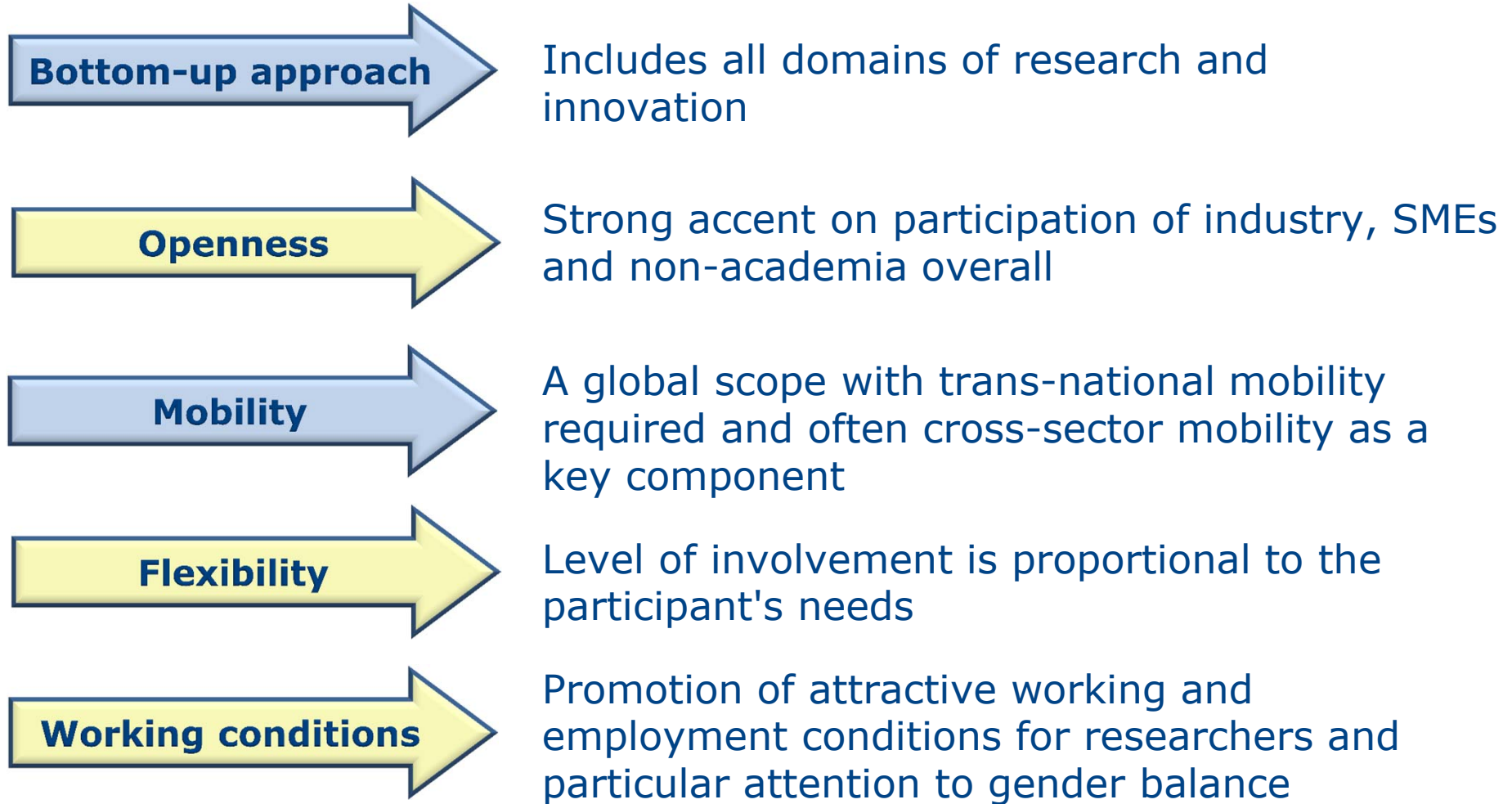
# Marie Skłodowska-Curie actions and Open Science

*EURODOC, OA Academy & FOSTER  
webinar "Winning Grant Proposals  
with Open Science"*

Julie SAINZ  
DG Education and Culture  
Brussels, 7 March 2016

HORIZON 2020

# MSCA Key Features



# MSCA Funding Schemes

**Innovative Training Networks - ITN**

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**Individual Fellowships - IF**

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**Research and Innovation Staff Exchange -  
RISE**

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**Cofunding of regional, national, and  
international programmes - COFUND**

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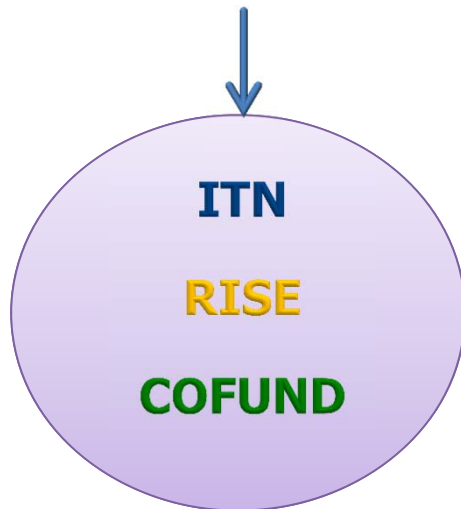
**European Researchers' Night - NIGHT**

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# Supported researchers

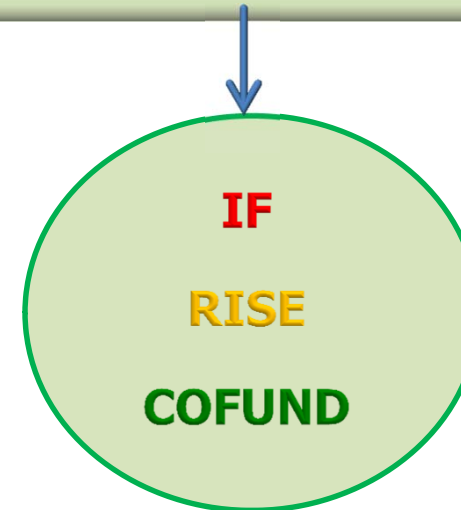
## Early-stage Researchers (ESR)

Less than four years of research experience and no doctoral degree



## Experienced Researchers (ER)

At least four years of research experience and / or a doctoral degree



# What can be funded?

## 1) Costs of researchers and seconded staff

Living allowance or Top-up allowance

Mobility allowance

Family allowance

## 2) Organisational costs

Research, training and networking costs

Management and indirect costs

# Open Science

## View of Commissioner Moedas



*"There is a revolution happening in the way science works. Every part of the scientific method is nowadays becoming an open, collaborative and participative process"*

*Speech at "A new start for Europe" Conference, 22 of July, 2015, Brussels*



Priorities of Commissioner Moedas

- > Open Science as part of an open approach:
- Open Innovation
- Open Science
- Open to the World

# Open Science in MSCA Work Programme



EN

Horizon 2020

Work Programme 2016 - 2017

*3. Marie Skłodowska-Curie Actions*

**Important notice on the second Horizon 2020 Work Programme**

This Work Programme covers 2016 and 2017. The parts of the Work Programme that relate to 2017 are provided at this stage on an indicative basis. Such Work Programme parts will be decided during 2016.

*(European Commission Decision C (2015)6776 of 13 October 2015)*

# Open Science in MSCA

HORIZON 2020 – Work Programme 2016-2017  
Marie Skłodowska-Curie Actions

dimensions, ensuring the access to research outcomes and encouraging formal and informal science education. All applicants to the Marie Skłodowska-Curie calls are encouraged to adopt an [RRI approach](#) into their proposals.

The ethical dimension of the activities undertaken should be analysed and taken into account, including relevant socio-economic implications. This implies the respect of ethical principles and related legislation during the implementation. Whenever possible, the activities should also include in their objectives a better understanding and handling of the ethical aspects as well as the promotion of the highest ethical standards in the field and among the actors and stakeholders.

The Marie Skłodowska-Curie actions pay particular attention to gender balance. In line with the Charter and Code, all Marie Skłodowska-Curie proposals are encouraged to take appropriate measures to facilitate mobility and counter-act gender-related barriers to it. Equal opportunities are to be ensured in the implementation of the actions by a balanced participation of women and men, both at the level of supported researchers and that of decision-making/supervision/management structure. In research activities where human beings are involved as subjects or end-users, gender differences may exist. In these cases the gender dimension in the research content has to be addressed as an integral part of the proposal to ensure the highest level of scientific quality.

As training researchers on gender issues serves the policy objectives of Horizon 2020 and is necessary for the implementation of R&I actions, applicants may include in their proposals such activity.

To further enhance dissemination and public engagement, beneficiaries of the Marie Skłodowska-Curie actions are required to plan suitable public outreach activities. In this way, they can also contribute to the cross-cutting objectives of Horizon 2020, such as climate action, sustainable development and biodiversity.

A novelty in Horizon 2020 is the Pilot on Open Research Data which aims to improve and maximise access to and re-use of research data generated by projects. Applicants to the Marie Skłodowska-Curie actions may participate in the Open Research Data Pilot on a voluntary basis. Participation in the Pilot is not taken into account during the evaluation procedure. In other words, proposals will not be evaluated favourably because they are part of the Pilot.

A further new element in Horizon 2020 is the use of Data Management Plans (DMPs) detailing what data the project will generate, whether and how it will be exploited or made accessible for verification and re-use, and how it will be curated and preserved. The use of a DMP is required for projects participating in the Open Research Data Pilot. Other projects are invited to submit a DMP if relevant for their planned research. Only funded projects are required to submit a DMP.

Further guidance on the Pilot on [Open Research Data](#) and [Data Management](#) is available on the Participant Portal.

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"...All applicants to the MSC calls are encouraged to adopt an **RRI approach** into their proposals."

"...Applicants to the MSCA may participate in the **Open Research Data Pilot** on a **voluntary basis**. Participation in the Pilot is not taken into account during the evaluation procedure..."



# Open Science in MSCA

*HORIZON 2020 – Work Programme 2016-2017  
Marie Skłodowska-Curie Actions*

## Marie Skłodowska-Curie Innovative Training Networks

*H2020-MSCA-ITN-2016*

### MSCA-ITN-2016: Innovative Training Networks

**Objective:** The Innovative Training Networks (ITN) aim to train a new generation of creative, entrepreneurial and innovative early-stage researchers, able to face current and future challenges and to convert knowledge and ideas into products and services for economic and social benefit.

ITN will raise excellence and structure research and doctoral training, extending the traditional academic research training setting, incorporating the elements of Open Science and equipping researchers with the right combination of research-related and transferable competences. It will provide enhanced career perspectives in both the academic and non-academic sectors through international, interdisciplinary and intersectoral mobility combined with an innovation-oriented mind-set.

**Scope:** ITN supports competitively selected joint research training and/or doctoral programmes, implemented by partnerships of universities, research institutions, research infrastructures, businesses, SMEs, and other socio-economic actors from different countries across Europe and beyond.

Partnerships take the form of collaborative European Training Networks (ETN), European Industrial Doctorates (EID) or European Joint Doctorates (EJD).

Each programme should have a clearly identified supervisory board co-ordinating network-wide training and establishing active and continuous communication and exchange of best practice among the partners to maximise the benefits of the partnership.

The programme should exploit complementary competences of the participating organisations, and enable sharing of knowledge, networking activities, the organisation of workshops and conferences.

Training responds to well identified needs in defined research areas, with appropriate references to inter- and multidisciplinary fields and follows the [EU Principles for Innovative Doctoral Training](#). It should be primarily focused on scientific and technological knowledge through research on individual, personalised projects.

In order to increase the employability of the researchers, the research training should be complemented by the meaningful exposure of each researcher to the non-academic sector.

Secondments of the researcher to other beneficiaries and partner organisations are encouraged.

Substantial training modules, including digital ones, addressing key transferable skills common to all fields and fostering the culture of Open Science, innovation and entrepreneurship will be supported.

## Innovative Training Networks

"ITN will raise excellence and structure research and doctoral training, extending the traditional academic research training setting, incorporating the elements of **Open Science ...**"

"Substantial training modules, including digital ones, addressing key transferable skills common to all fields and **fostering the culture of Open Science**, innovation and entrepreneurship will be supported."



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# Open Science in MSCA

HORIZON 2020 – Work Programme 2016-2017  
Marie Skłodowska-Curie Actions

In order to reflect on the changing nature of research, training should prepare early-stage researchers for an increased research collaboration and information-sharing made possible by new technologies (e.g. collaborative tools, open access, raw data, etc.).



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A Career Development Plan should be established jointly by the supervisor(s) and the early-stage researcher recruited by the selected network. In addition to research objectives, this plan comprises the researcher's training and career needs, including planning for publications and participation in conferences.

Attention is paid to the quality of supervision and mentoring arrangements as well as career guidance. Joint supervision of the researchers is mandatory for EJD and for EID, and encouraged in ETN. In EID, the joint supervision of the researcher must be ensured by at least one supervisor from the academic sector and one supervisor from the non-academic sector. These arrangements will be taken into account during the evaluation of the proposal.

In EID and EJD, fellowships offered to early-stage researchers should lead to a doctoral degree. EJD result in joint<sup>3</sup>, double or multiple doctoral degrees<sup>4</sup> awarded by institutions from at least two different countries.

In EID and EJD, enrolment in a doctoral programme and the creation of a joint governance structure - with joint admission (EJD only), selection, supervision, monitoring and assessment procedures - is mandatory. These arrangements will be taken into account during the evaluation of the proposal.

#### Expected Impact:

##### At researcher level:

- Increased set of skills, both research-related and transferable ones, leading to improved employability and career prospects both in and outside academia (leading in the longer-term to more successful careers)
- Increase, in the longer-term, in higher impact R&I output, more knowledge and ideas converted into products and services
- Greater contribution, in the longer term, to the knowledge-based economy and society

##### At organisation level:

- Enhanced cooperation and better transfer of knowledge between sectors and disciplines
- Improvement in the quality of training programmes
- Creation of new networks and enhanced quality of existing ones
- Boosting R&I capacity among participating organisations
- Increased internationalisation of participating organisations

<sup>3</sup> Joint degree – a single diploma issued by at least two higher education institutions offering an integrated programme and recognised officially in the countries where the degree-awarding institutions are located.

<sup>4</sup> Double or multiple degree - two or more national diplomas issued by two or more higher education institutions and recognised officially in the countries where the degree-awarding institutions are located.

# Open Access in MSCA

- open access to **PUBLICATIONS**

  - ⇒ **mandatory** under H2020

- open access to **RESEARCH DATA**

  - ⇒ **on a voluntary basis** under H2020

# Open Science in MSCA: what future?

- *Should Open Science be further embedded in MSCA?*
- *If Yes, to which extent and how?*

- **MSCA Advisory Group**
- **Stakeholders with expertise in Open Science**
- **Members States**

# Open Science in MSCA: what future?

## New ways of doing research

- *How to ensure that MSCA fellows are trained to the new ways of doing research, including Open Science?*
- *...while at the same time ensuring that MSCA participants understand:*
  - Responsible Research & Integrity*
  - Participatory processes combined with scientific rigor*
  - Data protection, when appropriate*
  - IPR*

**Thank you for your attention**

**<http://ec.europa.eu/msca>**



*« Nothing in life is to be feared, it is only to be understood. »*

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