Horizon 2020

An integrated programme coupling research to innovation:

- Responding to the economic crisis to invest in future jobs and growth
- Addressing people’s concerns about their livelihoods, safety and environment
- Strengthening the EU’s global position in research, innovation and technology

The three pillars of H2020
Objectives:

- Ensure the optimum development and dynamic use of Europe’s intellectual capital
- Generate new skills, knowledge and innovation
- Develop attractive career opportunities for competitive and interdisciplinary R&I environment

Budget 2014-2020:

- 6 162 million € (current prices)
MSCA Key Features

Includes **all domains** of research and innovation from **basic** research up to **market take-up** and **innovation services**

MSCA are **open to** researchers of **any nationality**, at **all career stages**, hosted in both academic and non-academic sectors

**Cross-border** mobility is the key requirement
**Cross-sector** mobility is strongly promoted

Promotion of **gender balance**, **open recruitment** procedures and excellent **working and employment conditions** for researchers
Global scope

Mobility
Requirement in all projects

Global reach
130 nationalities, 80 countries
• 9/10 top R&D investors in Europe participated in MCA

• Shanghai top 500 - 2/3 participated in MCA

• SMEs play a major role: in FP7 IAPP and ITN they account for >50% of business participants

• 86% beneficiaries strengthened existing R&I collaborations with partner organisations

• 73% of participant organisations observe or expect improvement in the quality of training
FP7 MSCA Achievements

- **~ 50 000 researchers** financed in FP7 MCA
- **~ 9 400 projects** funded
- **> 18 000 participations of various host organisations**
- **> 1928 participations from the private sector**, making up **>10% of total participants**, with **44.6% in IAPP** and **20.8% in ITN**
- **37%** of MSCA participants are women

All scientific areas covered: bottom-up approach
Swiss participation in FP7 MCA

- **267.9 million EUR** allocated to Swiss institutes
- **732 participations** in FP7 MCA projects
- **168 Swiss researchers** funded
- **1379 researchers** coming to Switzerland with MCA fellowships
Swiss participation in FP7 MCA

Switzerland – the 6th most active country in terms of EU contribution granted to the FP7 MCA projects

15 first nationalities of researchers coming to Switzerland
MSCA programme

Innovative Training Networks - ITN

Individual Fellowships - IF

Innovation

Intersectoral partnerships

Infrastructure

SMEs

Skills

Public engagement

Training

Excellence

Collaboration

Mobility

Bottom-up

European Researchers Night

Research and Innovation Staff Exchange - RISE

Education and Culture
What is ITN?

- Structured doctoral training for early-stage researchers based on cross-border and cross-sector partnerships (consortia)

A new generation of researchers

- Creativity
- Excellence
- Entrepreneurship
- Innovation
- Skilled
- Employable
- Mobile
**Budget:**
- € 405.18 Million in 2014 (EID: 25.5 Mio, EJD: 30 Mio)
- € 370 Million in 2015 (EID: 25 Mio, EJD 28 Mio)

**Main features:**
- **Exposure to the non-academic sector** as elementary part of the training
- **Joint supervision** with business (including SMEs) or other non-academic partners
- Project of **up to 4 years** duration and **fellowships of 3-36 months**
- Maximum **540 researcher-months** per consortium (or 180 for EID with 2 partners)
Consortia in ITN: ETN

European Training Networks

Minimum 3 partners from 3 MS or AC

Duration of projects: up to 4 years

Full sectoral flexibility in choice of partners
Consortia in ITN: EID

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 environment

Separate selection panel
Minimum 3 partners from 3 MS or AC

Based on collaboration between academic organisations entitled to award doctoral degrees

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

Separate selection panel
What is IF?
- Individual trans-national fellowships to the best and most promising experienced researchers

What is on offer?
- Open to hosts from both academic and non-academic sectors
- Secondments to / from the non-academic sector: 3 – 6 months
- Career development with an inter-sectoral dimension
- Strengthening networking capabilities both for researchers and for organisations involved
Budget:

- € 240.50 Million in 2014 (Global Fellowships: 29 Mio)
- € 213 Million in 2015 (Global Fellowships: 27 Mio)

Objectives and expected impact

✓ Enhance the creative and innovative potential of post-doctoral researchers

✓ Provide support to experienced researchers of any nationality

✓ Focus on career development

✓ Catalyse significant development in researchers' careers in both the academic and non-academic sectors
IF – European and Global

For fellows coming to or moving within Europe

European Fellowships

For fellows from Europe going to Third countries and returning

Global Fellowships
What is RISE?

- International and inter-sector collaboration programme based on transfer of knowledge through exchange of staff

Objectives:

- Developing a shared culture of research and innovation
- Stimulate commercialisation and transfer of knowledge and ideas
- Foster interaction between academic and non-academic organisations
RISE - Details

Budget:

- € 70 Million in 2014
- € 80 Million in 2015

Funding details:

- Duration of projects: **4 years maximum**
- Funding cap: **€ 2.43 million per project** (540 researcher-months)

Secondments (1-12 months):

- **Eligibility requirement:** staff member spent at least 6 months at the sending institution
- Within Europe: **only inter-sectoral secondments**
- No secondments between institutions outside Europe or within the same MS/AS
Consortia in RISE

Country 1 - MS or AC
- Academic
- Non-academic

Country 2 - MS or AC
- Academic
- Non-academic

Country 3 - MS or AC or TC
- Academic
- Non-academic

Exchanges between MS/AC:
- Partners need to be from different sectors

Exchanges with Third countries:
- Any combination is possible

At least 2 partners from MS or AC
RISE consortia require a minimum of 3 partners
Third and further partners can be from any country

Staff:
- Research
- Managerial
- Administrative
- Technical

Education and Culture
What is COFUND?

- Funding for funders: EU/AC based organisations or international European interest organisations that fund or manage doctoral or fellowship programmes

Possibilities:

- Funding for **doctoral** and **fellowship** programmes
- Mono-beneficiary
- Regional, national or international scope
- Private and public organisations may apply

Objectives:

- Develop and exploit synergies between EU actions and other programmes
- Combat fragmentation of funds
- Improve employment conditions for researchers
COFUND - Details

Budget:

- € 80 Million in 2014 (€ 30 Mio for Doctoral Programmes)
- € 80 Million in 2015 (€ 30 Mio for Doctoral Programmes)

Projects:

- Duration of projects: **maximum 5 years**
- Maximum funding: **€ 10 million** per applicant per call

Recruitment:

- Opportunities for researchers from **all countries**
- Researchers are recruited for **minimum 3 months**
- EU unit cost contribution to **living allowances for researchers** and **management costs**
- **Inter-sectoral mobility** is strongly encouraged
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<tbody>
<tr>
<td>ITN</td>
<td>11/12/2013 – 09/04/2014 02/09/2014 – 13/01/2015</td>
<td>EUR 405.18 million</td>
<td>EUR 370.00 million</td>
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<tr>
<td>RISE</td>
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<td>EUR 70.00 million</td>
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EU contributions

How does the MSCA funding work?

- Contributions are **based fully on unit costs** (person-month) -> MSCA calls
- **Country coefficients** are applicable to living allowances in ITN and IF
- Two broad dimensions of units costs: **researcher** and **institutional**
- **Dedicated allowances** for research, training and networking costs
- Dedicated units cost for **management and indirect costs**
<table>
<thead>
<tr>
<th>Categories of eligible costs</th>
<th>Costs of researchers / seconded staff member (1)</th>
<th>Institutional costs (2)</th>
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<tbody>
<tr>
<td><strong>Marie Skłodowska-Curie action</strong></td>
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<tr>
<td>ITN (100%)</td>
<td>Living allowance (a)</td>
<td>3 110</td>
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<td>IF (100%)</td>
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<td>RISE (100%)</td>
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<td>COFUND (50%)</td>
<td>ESR: 3 710</td>
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The assessment criteria

EXCELLENCE

Overall score: 0 - 5
Weight: 50%
Priority 1

IMPACT

Overall score: 0 - 5
Weight: 30%
Priority 2

IMPLEMENTATION

Overall score: 0 - 5
Weight: 20%
Priority 3
MSCA
Expected impact

2014

✓ ~65,000 researchers to be supported, including 25,000 PhD candidates
✓ ~200,000 scientific publications in high impact peer-reviewed journals
✓ ~1,500 patent applications
✓ ~100 spin-offs created

2020

✓ ~350-400 new programmes at regional / national / international level targeting international and intersectoral training, and career development of R&I staff
Marie Skłodowska-Curie Actions Website
http://ec.europa.eu/msca

Horizon 2020
http://ec.europa.eu/programmes/horizon2020

Participant Portal (applications)
http://ec.europa.eu/research/participants/portal

Marie Skłodowska-Curie Alumni Association
https://www.mariecuriealumni.eu