Marie Skłodowska-Curie actions

Bridging Business and Research

Athens, 10 March 2014

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European Commission
DG Education and Culture
Marie Skłodowska-Curie actions: opportunities for cross-sector collaboration

Involvement of non-academic sector in MCA: focus in Greece

Marie Skłodowska-Curie actions:
- New opportunities under Horizon 2020
- Funding
FP7 MCA Achievements

• ~ 80 000 researchers financed since creation of MCA
• ~ 9 400 projects funded so far* in FP7 (€4.4 billion)
• > 18 000 participations of host organisations in 82 countries (46 TC)
• SMEs play a major role: in IAPP & ITN account for >50% of all businesses participating
• 2/3 of the universities from the Shanghai top 500 list participated in the host-driven MCA in 2011
• 9/10 top R&D investors in Europe participated in the host-driven MCA in 2010 and 2011
• 86% beneficiaries strengthened existing R&I collaborations with partner organisations

* Status on 16 January 2014 - All calls excluding those in 2013

All scientific areas covered - bottom-up approach
MSCA opportunities

RESEARCHERS:

• **Right skills** offered to the new generation of researchers for turning best ideas into new business opportunities

• Researchers receive top-level research training with **exposure to both academic and non-academic sector** through secondments, recruitments and workshops

• Marie Skłodowska-Curie actions **inspire** researchers
  ✓ how to **innovate** by participating in world-class research projects
  ✓ how to **start businesses** by being entrepreneurial
  ✓ how to **protect ideas** and **inventions**
BUSINESSES (and other socio-economic actors):

• Find **alternative paths** to innovation – risk research without the risk

• Collaborate and benefit from the **experience** and **knowledge** of academic partners

• Take advantage from **state-of-the-art** and **high quality equipment** of universities and research institutions

• **Access to R&I talents**

• Actively direct research projects **towards the needs** of the company
ACADEMIA:

- Create a **bridge** and build **long-term partnerships** with non-academic partners
- Gain **access** to the technological expertise of industries
- Exploit the **business potential** of your discoveries
- Alternative **career opportunities** (value new generation of researchers appropriately)
- Increased funding potential through **new networks**
Involvement of non-academic sector in MCA: Host organisations

Status on January 2014
Involvement of non-academic sector in MCA

Distribution of participations & budget from the non-academic in MCA funded projects by EU MS/AC

- Participations
- Budget

Status on January 2014
Involvement of non-academic sector in MCA

Distribution of participations & budget from the non-academic in MCA funded projects by third country

Participations:
- SME
- Non-SME

Budget:
- SME
- Non-SME

Status on January 2014
Host organisations participations in EU/AC: Country distribution

649 MC Researchers to EL

393
EU contribution in EU/AC: Country distribution

€83.6 million
## Greek participation in MCA: Overview

<table>
<thead>
<tr>
<th>Marie Curie Actions (2007-2013)</th>
<th>Number of organisation participations</th>
<th>Budget (€ million) allocated to Greek organisations</th>
<th>Number of Projects</th>
<th>Greek Researchers</th>
<th>Researchers going to Greek organisations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Training Networks (ITN)</td>
<td>102</td>
<td>38.3</td>
<td>85</td>
<td>296</td>
<td>194</td>
</tr>
<tr>
<td>Industry-Academia Partnerships and Pathways (IAPP)</td>
<td>64</td>
<td>21.1</td>
<td>42</td>
<td>279</td>
<td>280</td>
</tr>
<tr>
<td>International Research Staff Exchange Staff Scheme (IRSES)</td>
<td>52</td>
<td>3.4</td>
<td>45</td>
<td>1318 Months</td>
<td>1071 Months 4</td>
</tr>
<tr>
<td>Co-funding of regional, national and international programmes (COFUND)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>45</td>
<td>1</td>
</tr>
<tr>
<td>Intra-European Fellowships for career development (IEF)</td>
<td>38</td>
<td>6.6</td>
<td>38</td>
<td>135</td>
<td>38</td>
</tr>
<tr>
<td>International Incoming Fellowships (IIF)</td>
<td>111</td>
<td>9.14</td>
<td>110</td>
<td>160</td>
<td>110</td>
</tr>
<tr>
<td>International Outgoing Fellowships (IOF)</td>
<td>10</td>
<td>1.8</td>
<td>10⁵</td>
<td>7</td>
<td>10</td>
</tr>
<tr>
<td>Reintegration Grants (CIG + ERG + IRG + RG)</td>
<td>16⁵</td>
<td>3.5</td>
<td>16</td>
<td>27</td>
<td>16</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>393</strong></td>
<td><strong>84</strong></td>
<td><strong>346</strong></td>
<td><strong>949¹</strong></td>
<td><strong>649¹</strong></td>
</tr>
</tbody>
</table>

* Actual data not yet available: these are the number of researcher-months expected to be exchanged in projects funded so far.
Most active organisations in Greece participating in MCA (≥15 times)

Panel distribution of all 346 projects involving 71 ≠ EL organisations

- ENG 37%
- LIF 22%
- ENV 10%
- SOC 6%
- CHE 10%
- ECO 1%
- MAT 3%
- PHY 12%
- EC 10%

Projects

- FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS
- NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA
- NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"
- ARISTOTELIO PANEPISTIMIO THESSALONIKIS
- NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS
- UNIVERSITY OF PATRAS
- PANEPISTIMIO KRITIS (UNIVERSITY OF CRETE)
- BIOMEDICAL RESEARCH FOUNDATION, ACADEMY OF ATHENS
- CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS
Most highly funded organisations in Greece participating in MCA

Type of MCA distribution of all 346 funded projects involving 71 ≠ EL organisations

Contribution

- Foundation for Research and Technology Hellas
- National Center for Scientific Research "Demokritos"
- National Technical University of Athens - NTUA
- National and Kapodistrian University of Athens
- Aristotleion Panepistimio Thessalonikis
- University of Patras
- Biomedical Sciences Research Center Alexander Fleming
Most active non-academic organisations in Greece participating in MCA (≥2 times)

Panel distribution of 30 funded projects involving 23 EL non-academic organisations

Participations

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Participations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anonimi Etairia Ereunias, Kainotomias kai Anaptiksis, Texitematikis Texnologias - VIDAVO A.E.</td>
<td>3</td>
</tr>
<tr>
<td>SINGULARLOGIC ANONYM EI TAIARIA PLIROFORIAKON SISTIMATON..</td>
<td>2</td>
</tr>
<tr>
<td>Global Nanotechnologies S.A.</td>
<td>2</td>
</tr>
<tr>
<td>LAVIPHARM SA</td>
<td>2</td>
</tr>
<tr>
<td>ADVANCED ENERGY TECHNOLOGIES AE REUNAS &amp; ANAPIKYSI YLIKON &amp; ...</td>
<td>2</td>
</tr>
<tr>
<td>BIOMEDCODE ELLAS ANONIMI ETNIA EPISTEMONIKIS KAI TEXNOLOGIKIS ...</td>
<td>2</td>
</tr>
<tr>
<td>Prisma Electronics ABEE</td>
<td>2</td>
</tr>
</tbody>
</table>

Panel distribution: ENG 55%, LIF 16%, ENV 10%, PHY 6%, SOC 6%, CHE 10%
Horizon 2020

Supporting our excellent science base

Providing training & career development opportunities

€6162 million

THE EU FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

THREE KEY PILLARS

Excellent Science

Industrial leadership

Societal Challenges
MSCA Objective

Ensure the optimum development and dynamic use of Europe’s intellectual capital in order to generate new skills, knowledge and innovation

**Budget 2014-2020:** 6 162 million € (current prices)

€800 million granted to 2014 Marie Skłodowska-Curie calls
**Definitions**

- **Academic sector**: public or private HEI awarding academic degrees, public or private non-profit research organisations, international European interest organisations.

- **Broad definition of the non-academic sector**: any socio-economic actor not included in the academic sector definition.

- **Staff members** in RISE: researchers, managers, administrative and technical personnel supporting research and innovation activities of the project.
# MSCA

## Scope of activities

<table>
<thead>
<tr>
<th>Innovative Training Networks</th>
<th>ITN</th>
<th>International and interdisciplinary consortia for doctoral and early-stage research training</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Fellowships</td>
<td>IF</td>
<td>Grants for post-doctoral researchers undertaking international and inter-sector mobility</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dedicated support for career restart and reintegration of researchers</td>
</tr>
<tr>
<td>Research and Innovation Staff Exchange</td>
<td>RISE</td>
<td>International and inter-sector cooperation and transfer of knowledge through the exchange of staff</td>
</tr>
<tr>
<td>Co-funding of programmes</td>
<td>COFUND</td>
<td>Co-funding of regional, national and international programmes</td>
</tr>
<tr>
<td>Policy support actions</td>
<td>NIGHT NCP</td>
<td>European Researchers' Night (NIGHT) NCP support</td>
</tr>
</tbody>
</table>
MSCA - main EU programme for structured doctoral training

**Objective**
- raise excellence and **structure research and doctoral training**
- train a new generation of creative, entrepreneurial and innovative early-stage researchers

**Scope**
- International networks, interdisciplinary projects, **intersectoral collaboration**
- Scientific **excellence** with **innovation-oriented approach**
- Particular focus on **entrepreneurial skills** and **employability of researchers**
- Collaboration and **exchange of best practice** among participating organisations
ITN – Main features

- **Budget**: € 405.18 Million in 2014 (EID: 25.5 Mio, EJD: 30 Mio)
  € 370 Million in 2015 (EID: 25 Mio, EJD 28 Mio)

- European Training Networks, European Industrial Doctorates and European Joint Doctorates

- Exposure to the **non-academic sector** as **elementary part of the training**: secondments, internships and placements

- **Joint supervision** with the non-academic sector

- **Mentorship** by the non-academic sector

- Participation of the **non-academic sector mandatory in EID** (PhD candidate to spend >50% of fellowship at industry)

- Fellowships of 3-36 months
Objective

- 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, resume a career or return to Europe

Scope

- Individual, trans-national fellowships awarded to the best or most promising researchers
- European Fellowships or Global Fellowships
- Career Restart Panel and Reintegration Panel

Expected Impact

- release the full potential of researchers and to catalyse significant development in their careers in both the academic and non-academic sectors
- strengthen the contact network of the researcher and the host organisation
IF – Main features

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

- Support to experienced researchers of any nationality

- Focus on **career development**, not necessarily experience

- **Non-academic sector** hosting and / or providing secondments

- 3 or 6 month **secondment option**, within Europe, preferably in the non-academic sector
Objective

✓ promote international and inter-sector collaboration through research and innovation staff exchanges
✓ foster a shared culture of research and innovation, stimulate commercial exploitation of research results

Scope

✓ RISE – powerful instrument for new ways of collaboration
✓ Transfer of knowledge and sharing of ideas
✓ Common research and innovation project
✓ Highly skilled research and innovation staff
✓ Mobility, research and networking costs covered

Expected Impact

✓ strengthen the interaction between organisations in the academic and non-academic sectors, and between Europe and third countries
RISE – Main features

- **Budget**: € 70 Million in 2014
  € 80 Million in 2015

- Duration of projects: maximum 4 years

- Maximum funding: 2.43 million € per project (540 person-months)

- Support to *secondments of staff members* (1-12 months)

- **Eligibility condition** for staff member: 6 month at the sending institution prior to the first secondment

- **Within Europe**: only inter-sector secondments

- No secondments between institutions located outside Europe or within the same MS/AC
Objective
✓ stimulate regional, national or international programmes (both public and private) to foster excellence in researchers' training, mobility and career development

Scope
✓ innovative research training, as well as transnational and cross-sector mobility of researchers
✓ opportunities for researchers from all countries
✓ intersectoral mobility strongly encouraged

Expected Impact
✓ exploit synergies between EU actions and those at regional, national, and international level
✓ enhance excellent career opportunities and employment conditions of researchers
COFUND – Main features

✓ **Budget**: € 80 Million in 2014 (Doctoral Programmes: 30 Mio)
   € 80 Million in 2015 (Doctoral Programmes: 30 Mio)

✓ Maximum **€ 10 Million per single applicant** per call

✓ **Duration of projects**: maximum 5 years

✓ **Doctoral programmes** and **fellowship programmes**

✓ **Researchers** recruited for **minimum 3 months**

✓ **EU unit cost contribution to living allowances for researchers** and **management costs**
EU contribution

- Contribution fully based on unit costs (person-month) → MSCA calls
- Country coefficients applicable to living allowances in ITN and IF
- Two broad dimensions of unit costs: researcher and institutional
- Dedicated allowances for research, training and networking costs
- Dedicated unit cost for management and overheads
## EU contribution – amounts

<table>
<thead>
<tr>
<th>Categories of eligible costs</th>
<th>Costs of researchers/seconded staff member (1)</th>
<th>Institutional costs (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Living allowance (a)</td>
<td>Mobility allowance (b)</td>
</tr>
<tr>
<td>Marie Skłodowska-Curie action</td>
<td>3 110</td>
<td>600</td>
</tr>
<tr>
<td>ITN (100%)</td>
<td>4 650</td>
<td>600</td>
</tr>
<tr>
<td>IF (100%)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>RISE (100%)</td>
<td>ESR: 3 710</td>
<td>ER: 5 250</td>
</tr>
</tbody>
</table>
## MSCA Calls 2014-2015

<table>
<thead>
<tr>
<th>Program</th>
<th>Start Date</th>
<th>End Date</th>
<th>2014 Funding</th>
<th>2015 Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITN</td>
<td>11/12/2013</td>
<td>09/04/2014</td>
<td>EUR 405.18 million</td>
<td>EUR 370 million</td>
</tr>
<tr>
<td></td>
<td>02/09/2014</td>
<td>13/01/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IF</td>
<td>12/03/2014</td>
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<td>EUR 240.50 million</td>
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</tr>
<tr>
<td></td>
<td>12/03/2015</td>
<td>10/09/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RISE</td>
<td>11/12/2013</td>
<td>24/04/2014</td>
<td>EUR 70.00 million</td>
<td>EUR 80.00 million</td>
</tr>
<tr>
<td></td>
<td>06/01/2015</td>
<td>28/04/2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COFUND</td>
<td>10/04/2014</td>
<td>02/10/2014</td>
<td>EUR 80.00 million</td>
<td>EUR 80.00 million</td>
</tr>
<tr>
<td></td>
<td>14/04/2015</td>
<td>01/10/2015</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Marie Skłodowska-Curie actions:
- Website: http://ec.europa.eu/mariecurieactions
- Facebook: https://www.facebook.com/Marie.Curie.Actions

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

Participant Portal (applications): http://ec.europa.eu/research/participants/portal/
- Intellectual Property Rights (IPR) helpdesk: http://www.iprhelpdesk.eu/
  including SME corner: http://www.iprhelpdesk.eu/SME_Corner