Marie Skłodowska-Curie actions

Bridging Business and Research

Athens, 10 March 2014

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European Commission
DG Education and Culture

HORIZON 2020

Outline

➢ **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

European Commission

MSCA Budget in EUR million
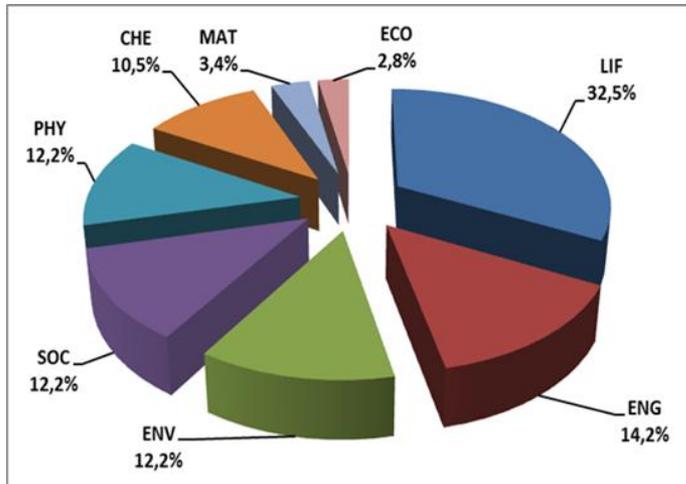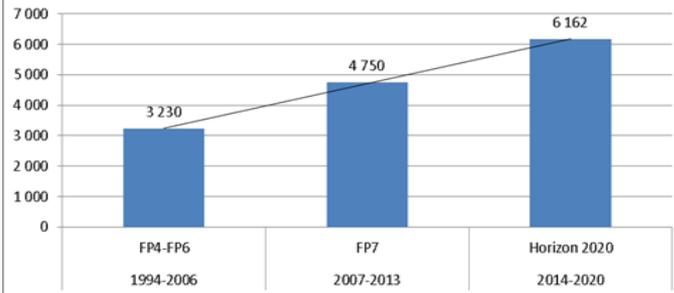
All scientific areas covered - bottom-up approach

- ~ **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

Education and Culture

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**

MSCA opportunities

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

MSCA opportunities

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
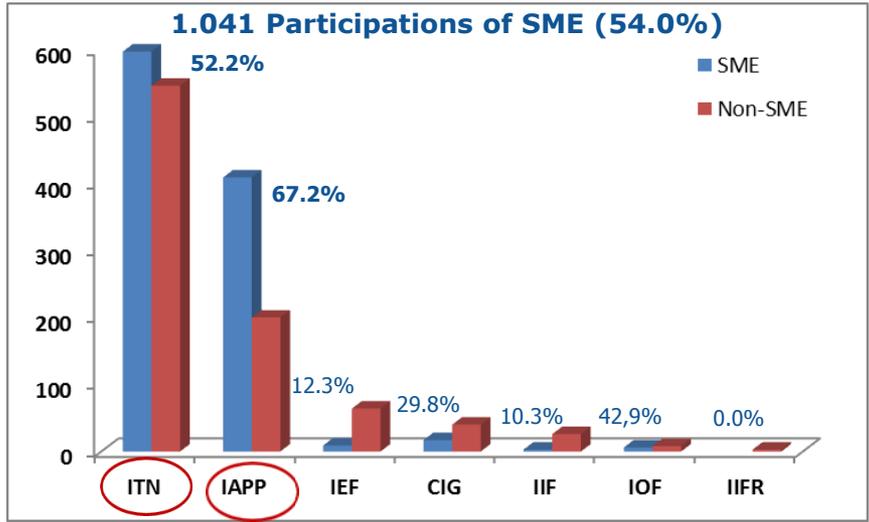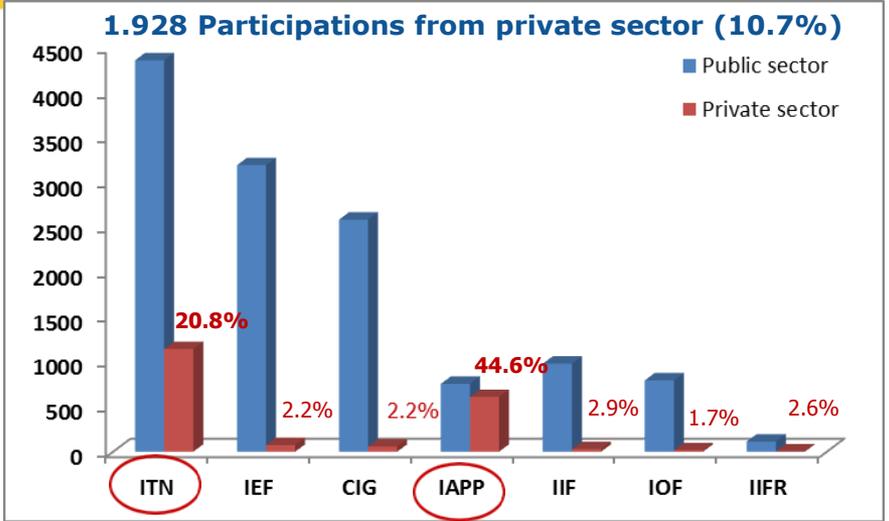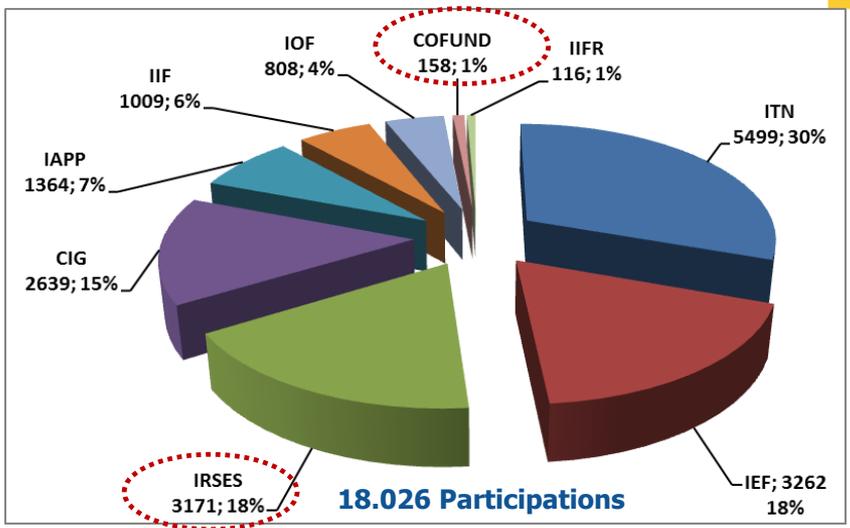
18.026 Participations

Pie chart segments:
- ITN 5499; 30%
- IEF; 3262 18%
- IRSES 3171; 18%
- CIG 2639; 15%
- IAPP 1364; 7%
- IIF 1009; 6%
- IOF 808; 4%
- COFUND 158; 1%
- IIFR 116; 1%

1.928 Participations from private sector (10.7%)

- Public sector
- Private sector

ITN 20.8%
IEF 2.2%
CIG 2.2%
IAPP 44.6%
IIF 2.9%
IOF 1.7%
IIFR 2.6%

1.041 Participations of SME (54.0%)

- SME
- Non-SME

ITN 52.2%
IAPP 67.2%
IEF 12.3%
CIG 29.8%
IIF 10.3%
IOF 42,9%
IIFR 0.0%

Involvement of non-academic sector in MCA

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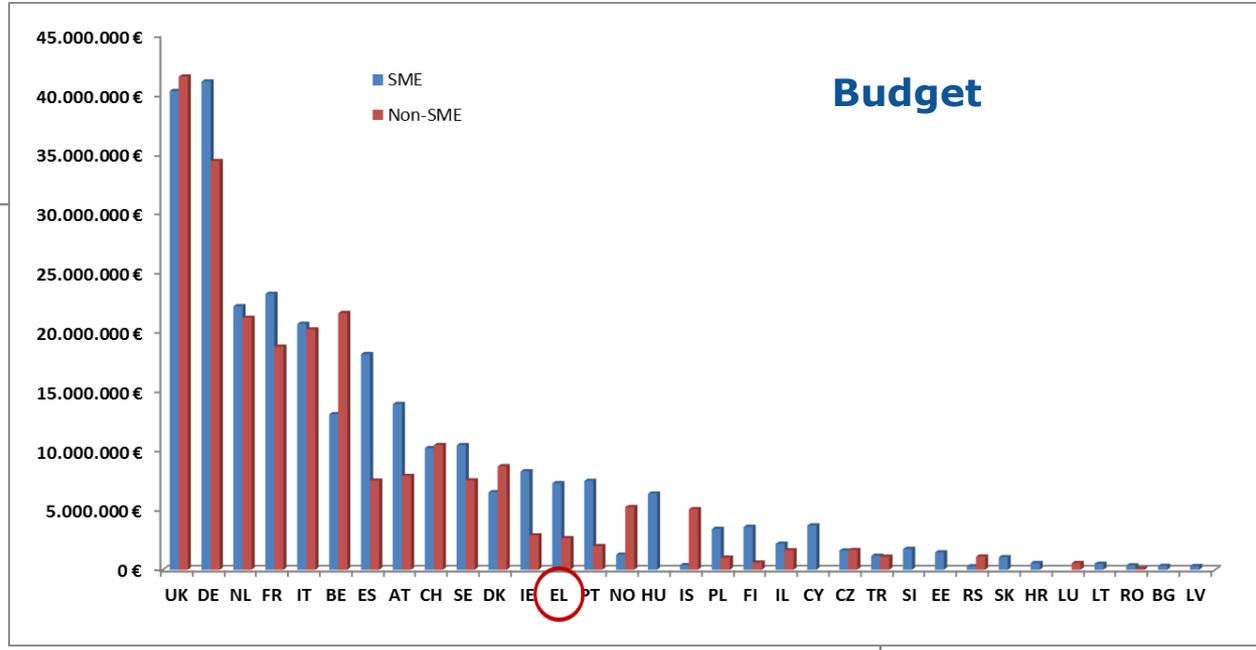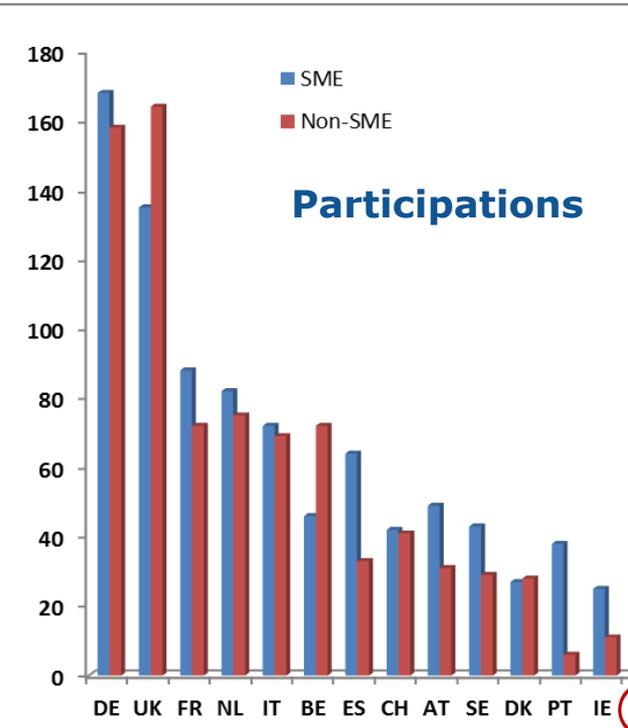
Budget

Participations

Involvement of non-academic sector in MCA

Distribution of participations & budget from the non-academic in MCA funded projects by third country
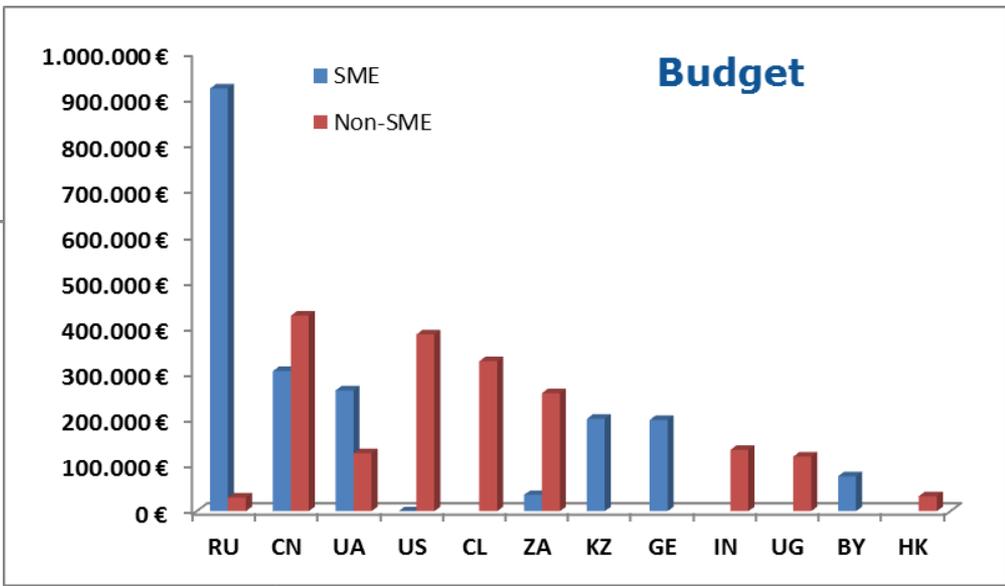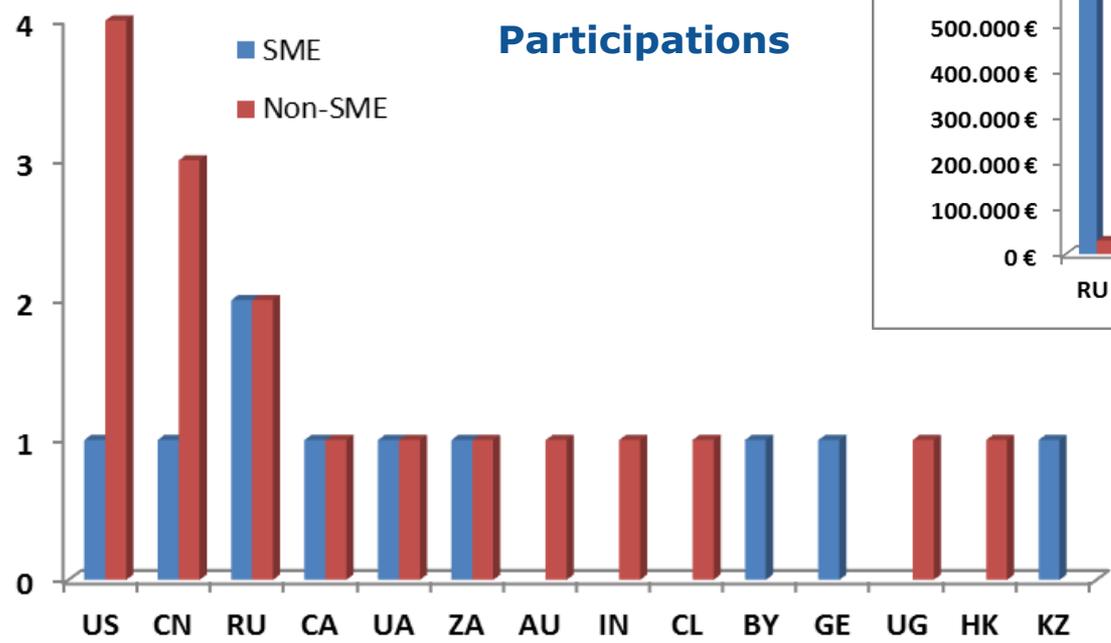
Host organisations participations in EU/AC: Country distribution

649 MC Researchers to EL

393

Legend: ITN, IRSES, IOF, IIFR, IIF, IEF, IAPP, COFUND, CIG

Countries: UK DE FR ES IT NL CH BE SE IL DK EL AT PT IE TR PL FI NO HU CZ RO SI CY BG IS SK EE HR LT RS LV LU MD MT MK LI
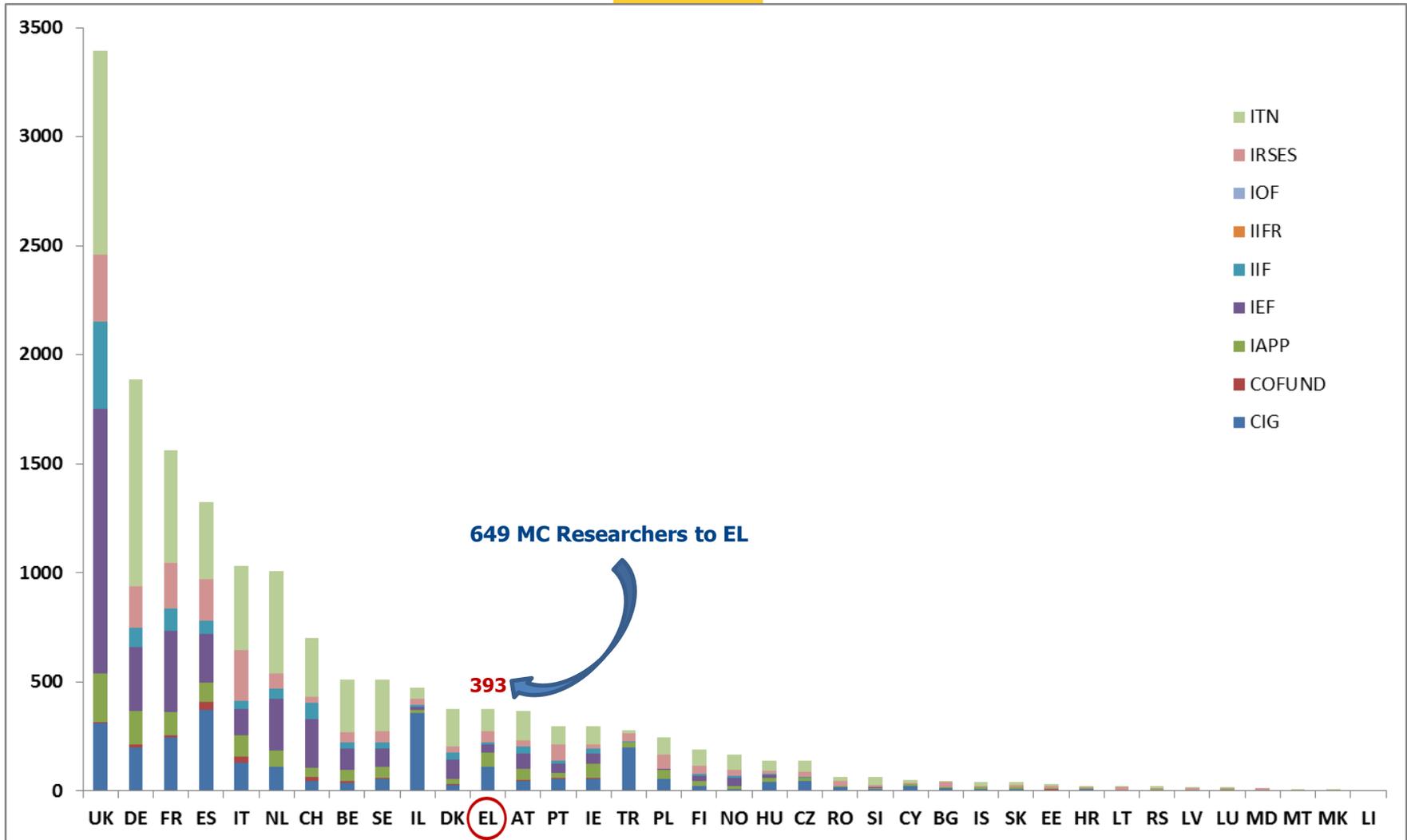
EU contribution in EU/AC: Country distribution

€83.6 million

Education and Culture
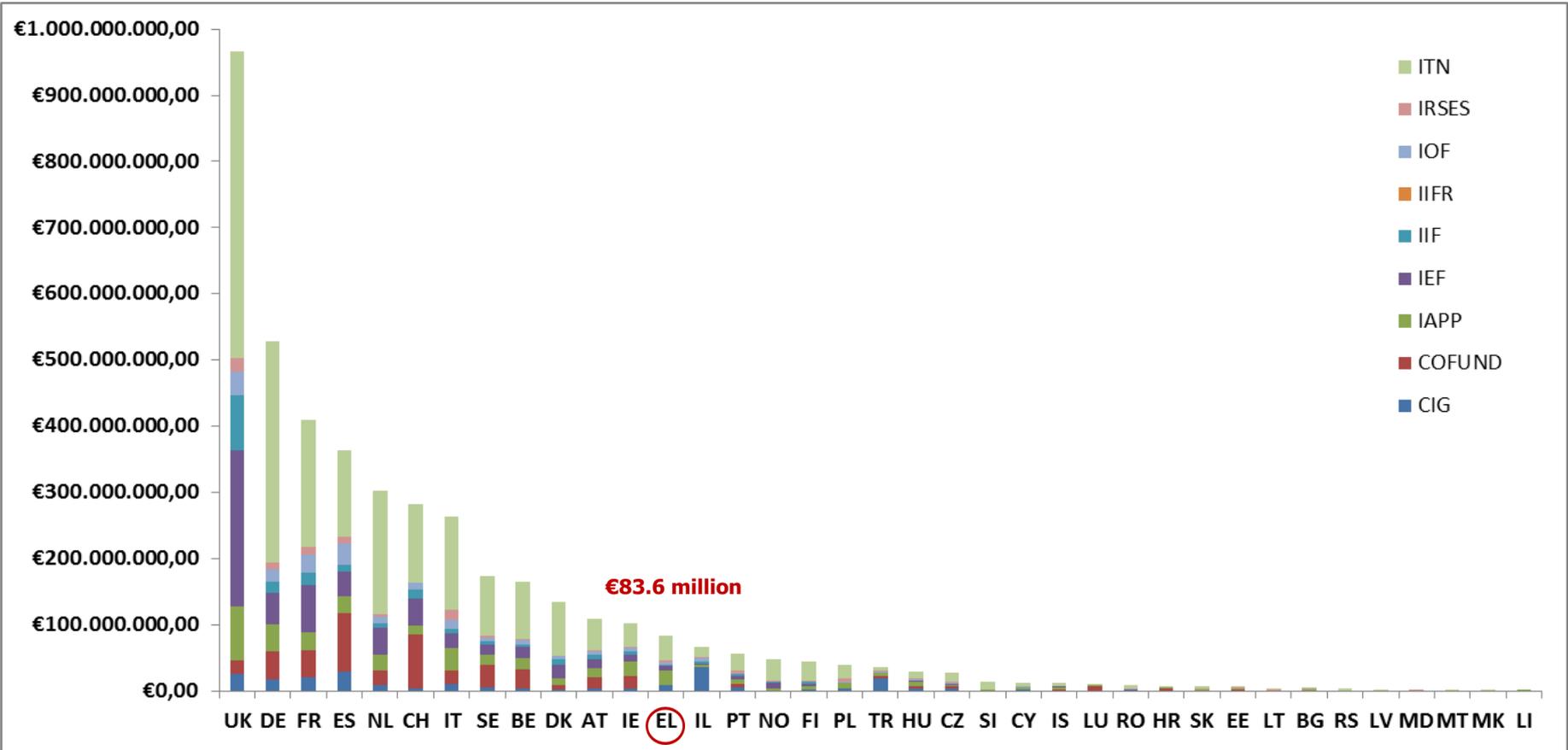
MC Researchers funded in EU/AC: Distribution by nationality

949*

Legend:
- ITN
- IOF
- IIFR
- IIF
- IEF
- IAPP
- COFUND*
- CIG

Y-axis: 0, 500, 1000, 1500, 2000, 2500

X-axis: IT ES DE FR EL UK PL NL AT PT IL TR BE HU IE SE RO CZ CH FI BG DK RS SK HR CY SI EE LT IS NO LU MD LV AL MK MT BA ME LI
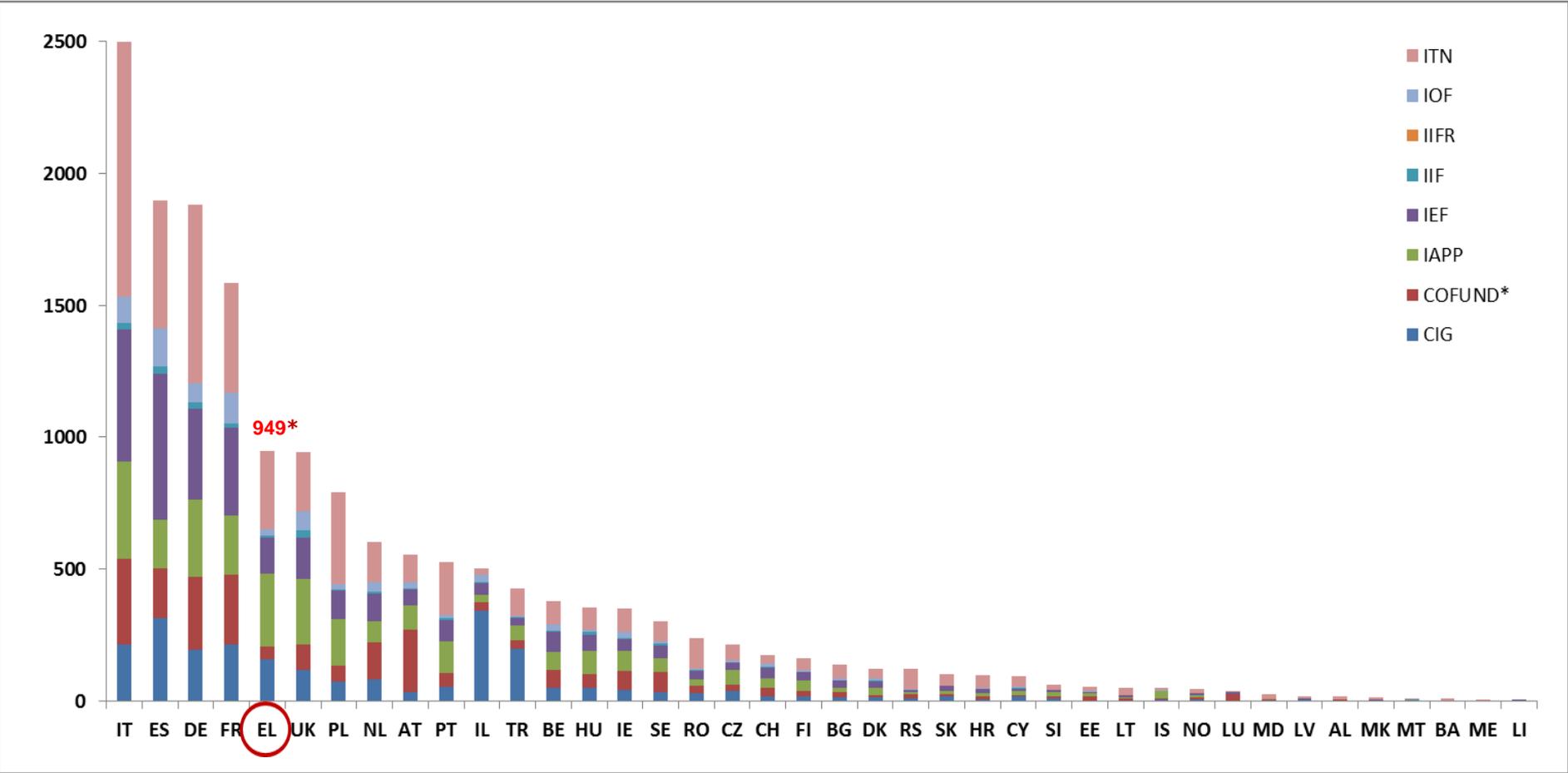
***IRSES not included;
COFUND only partial data**

Education and Culture

Greek participation in MCA: Overview

European Commission

| Marie Curie Actions (2007-2013)	Number of organisation participations	Budget (€ million) allocated to Greek organisations	Number of Projects	Greek Researchers	Researchers going to Greek organisations
Initial Training Networks (ITN)	102	38.3	85	296	194
Industry-Academia Partnerships and Pathways (IAPP)	64	21.1	42	279	280
International Research Staff Exchange Staff Scheme (IRSES)	52	3.4	45	* 1318 Months	* 1071 Months [4]
Co-funding of regional, national and international programmes (COFUND)	0	0	0	45	1
Intra-European Fellowships for career development (IEF)	38	6.6	38	135	38
International Incoming Fellowships (IIF)	111	9.14	110	160	110
International Outgoing Fellowships (IOF)	10	1.8	10[5]	7	10
Reintegration Grants (CIG + ERG + IRG + RG)	16[5]	3.5	16	27	16
Total	393	84	346	949[1]	649[1]

* Actual data not yet available: these are the number of researcher-months expected to be exchanged in projects funded so far.

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Most active organisations in Greece participating in MCA (≥15 times)

European Commission

Panel distribution of all 346 projects involving 71 ≠ EL organisations

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

Projects

Bar chart (Projects):
- FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS: ~67
- NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA: ~29
- NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS": ~26
- ARISTOTELIO PANEPISTIMIO THESSALONIKIS: ~26
- NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS: ~25
- UNIVERSITY OF PATRAS: ~18
- PANEPISTIMIO KRITIS (UNIVERSITY OF CRETE): ~18
- BIOMEDICAL RESEARCH FOUNDATION, ACADEMY OF ATHENS: ~16
- CENTRE FOR RESEARCH AND TECHNOLOGY HELLAS: ~16

Education and Culture

Most highly funded organisations in Greece participating in MCA

European Commission

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

Pie chart: ITN 26%, CIG 28%, IAPP 16%, IEF 10%, IIF 3%, IOF 4%, IRSES 13%

Contribution

Bar chart categories: FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS, NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS", NATIONAL TECHNICAL UNIVERSITY OF ATHENS - NTUA, NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS, ARISTOTELIO PANEPISTIMIO THESSALONIKIS, UNIVERSITY OF PATRAS, BIOMEDICAL SCIENCES RESEARCH CENTER ALEXANDER FLEMING
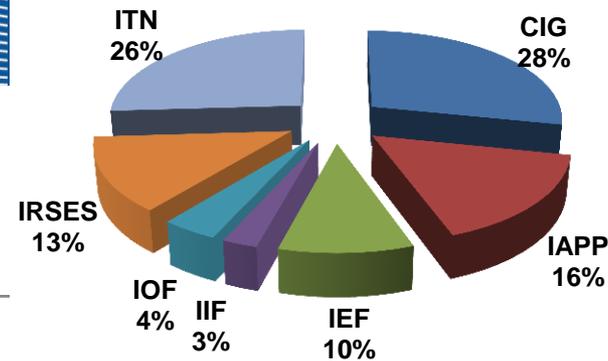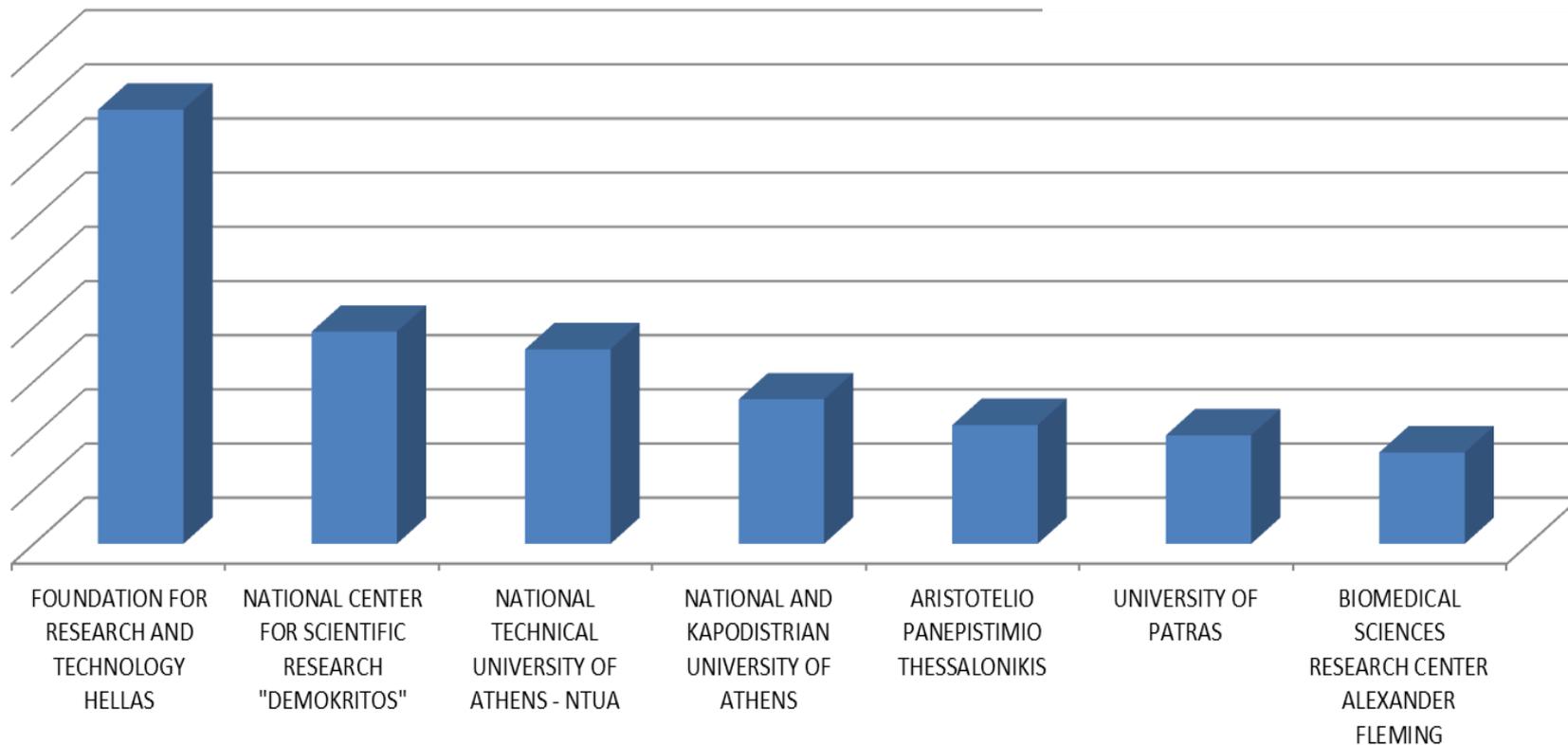
Most active non-academic organisations in Greece participating in MCA (≥2 times)
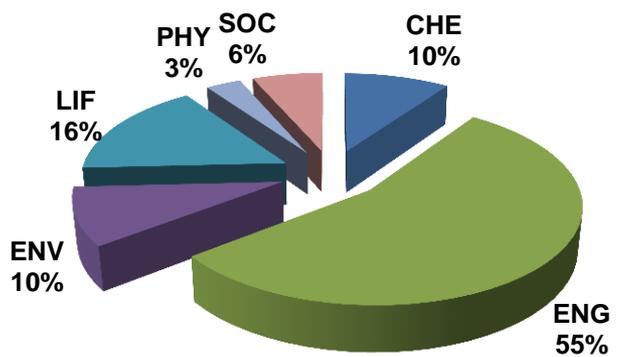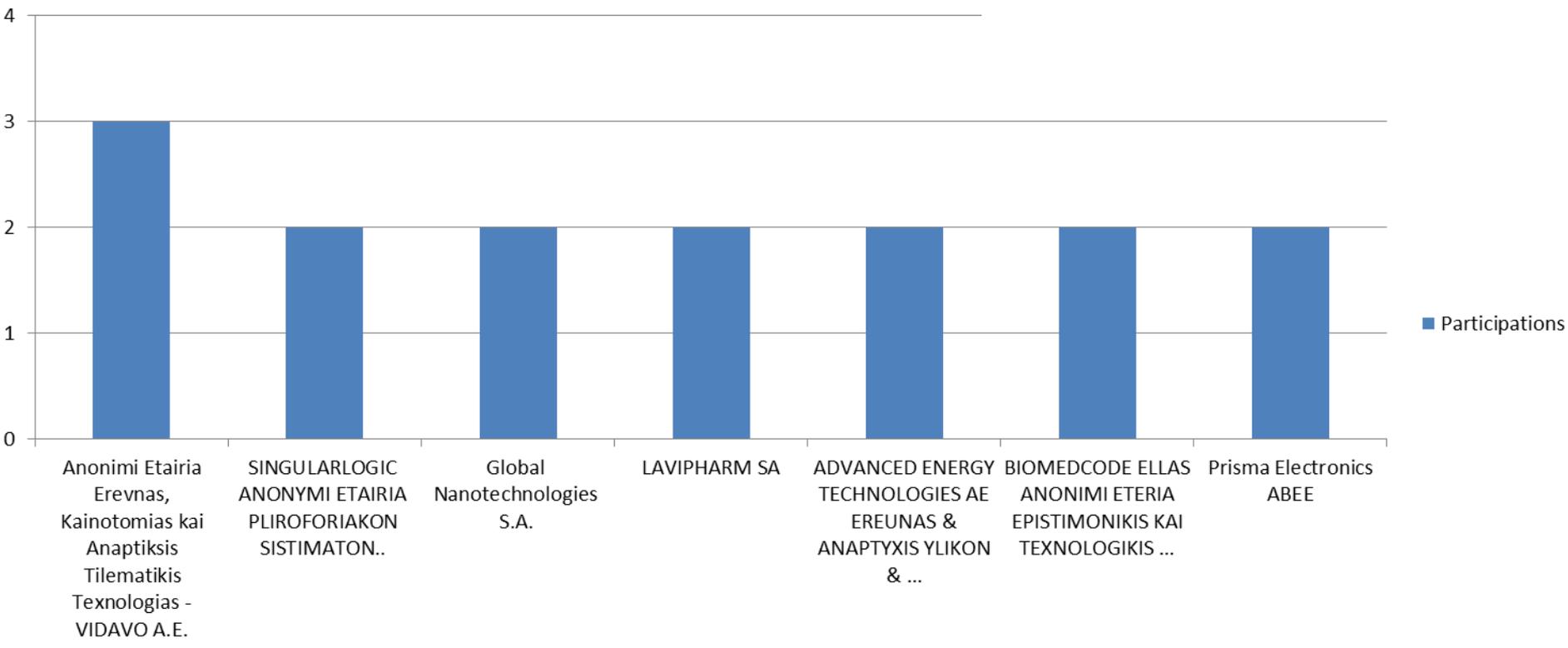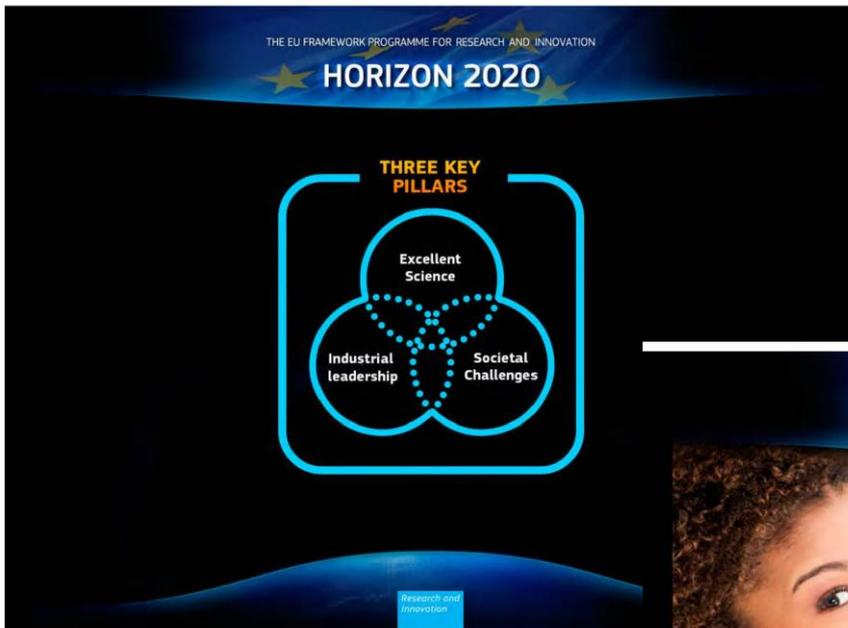
European Commission

Pie chart:
- PHY 3%
- SOC 6%
- CHE 10%
- LIF 16%
- ENV 10%
- ENG 55%

Participations

Bar chart — Participations:
- Anonimi Etairia Erevnas, Kainotomias kai Anaptiksis Tilematikis Texnologias - VIDAVO A.E.: 3
- SINGULARLOGIC ANONYMI ETAIRIA PLIROFORIAKON SISTIMATON..: 2
- Global Nanotechnologies S.A.: 2
- LAVIPHARM SA: 2
- ADVANCED ENERGY TECHNOLOGIES AE EREUNAS & ANAPTYXIS YLIKON & ...: 2
- BIOMEDCODE ELLAS ANONIMI ETERIA EPISTIMONIKIS KAI TEXNOLOGIKIS ...: 2
- Prisma Electronics ABEE: 2

Education and Culture

Horizon 2020

European
Commission

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

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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

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

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

Individual Fellowships (IF)

European Commission

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

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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

Research and Innovation Staff Exchange (RISE)

European Commission

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

COFUND

European Commission

MSCA to foster excellence throughout Europe

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

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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

European Commission

Education and Culture

EU contribution – amounts

Categories of eligible costs Marie Skłodowska-Curie action	Costs of researchers/seconded staff member (1)				Institutional costs (2)	
	Living allowance (a)	Mobility allowance (b)	Family allowance (c)	Top-up allowance (d)	Research, training and networking costs (a)	Management and indirect costs (b)
ITN (100%)	3 110	600	500	--	1 800	1 200
IF (100%)	4 650	600	500	--	800	650
RISE (100%)	--	--	--	2 000	1 800	700
COFUND (50%)	ESR: 3 710 ER: 5 250	--	--	--	--	650

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MSCA Calls 2014-2015

ITN	**11/12/2013 – 09/04/2014** 02/09/2014 – 13/01/2015	**EUR 405.18 million in 2014** EUR 370 million in 2015
IF	12/03/2014 – 11/09/2014 12/03/2015 – 10/09/2015	EUR 240.50 million in 2014 EUR 213.00 million in 2015
RISE	**11/12/2013 – 24/04/2014** 06/01/2015 – 28/04/2015	**EUR 70.00 million in 2014** EUR 80.00 million in 2015
COFUND	10/04/2014 – 02/10/2014 14/04/2015 – 01/10/2015	EUR 80.00 million in 2014 EUR 80.00 million in 2015

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

SME Area: http://ec.europa.eu/programmes/horizon2020/en/area/smes

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