



MARIE CURIE ACTIONS

European Industrial Doctorates

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AGENDA

- Objectives of Marie Curie Actions
- Main achievements so far
- Policy context
- The future...





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Excellence, mobility and skills for researchers





Towards a smart and knowledge-based society



- Promote mobility of researchers
- Strengthen link between academia and industry
- Key **skills** matching both public and private sectors



Excellence, mobility and skills for researchers





Some basic about Marie Curie Actions:

- Addressed to researchers at all stages of their careers
- Open to all domains of research (bottom-up)
- Mobility (international, intersectoral, interdisciplinary)
- Application through competitive calls for proposals
- Selection criteria:
 - S&T quality, Training/ToK, Implementation, Impact
- Budget covers generally:
 salary, mobility and research budget for the researcher

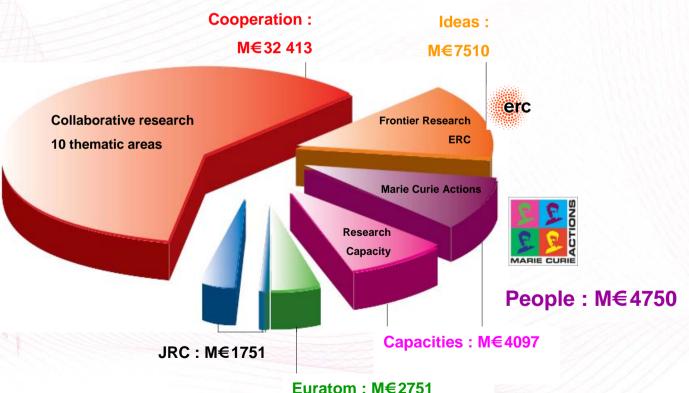




Where the money comes from?

Total FP7 budget: M€50 521

FP7 breakdown (€million) - 2007-2013



Nuclear research





Marie Curie Action		Objective
Initial training of researchers (1900 M€)	Initial Training Networks (ITN)	Improve career perspectives of early stage researchers in both public & private sector
Life-long training and career development (1170–1400 M€)	Intra-European Fellowships (IEF)	Career development of experienced researchers by e.g.: diversification skills/competencies; integrate a stable position after mobility
	Career Integration Grants (CIG)	
	Co-funding of regional, national, international programmes (COFUND)	
Industry dimension (250-450 M€)	Industry-Academia Partnerships and Pathways (IAPP)	Open and foster dynamic pathways between public research organisations and private commercial enterprises
International dimension "World fellowships" (1170–1400 M€)	International Outgoing Fellowships (IOF)	Reinforce extra-European dimension of the ERA through mobility through training, knowledge transfer and cooperation
	International Incoming Fellowships (IIF)	
	International Research Staff Exchange Scheme (IRSES)	





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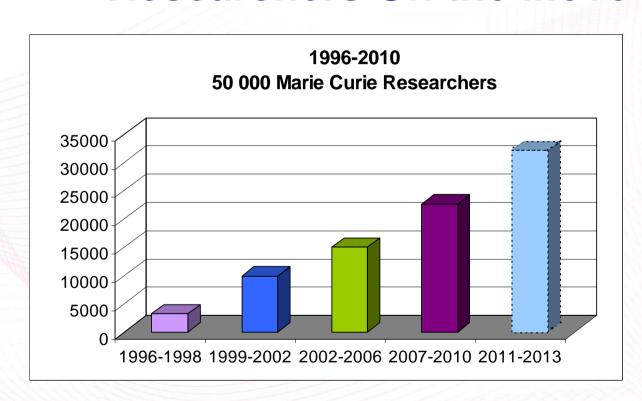




Researchers On the Move



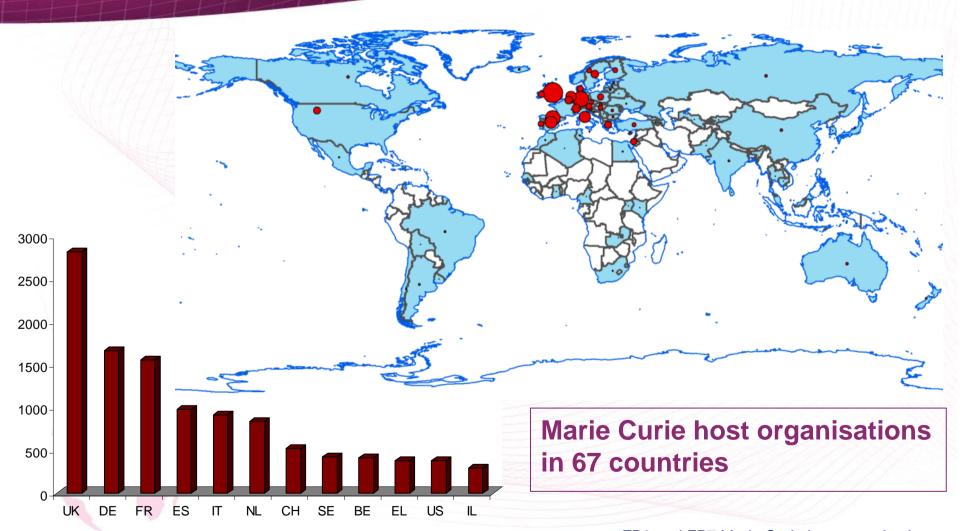
Pierre and Marie Curie honeymoon, 1895



- 50.000 researchers from over 120 nationalities since 1996
- 40% women







12 MAIN DESTINATIONS

FP6 and FP7 Marie Curie host organisations

Excellence, mobility and skills for researchers







Enhancing Excellence in Science & Training

- Excellence in Science:
 - All top 100 European universities participate (Shanghai ranking)
 - Nobel prize and other laureates involved in training Marie Curie researchers
- Excellence in Training:
 - Focused on creative and innovative skills development
 - Entrepreneurship, business management, language, communication
- Excellent environment:
 - Attractive salaries and employment conditions

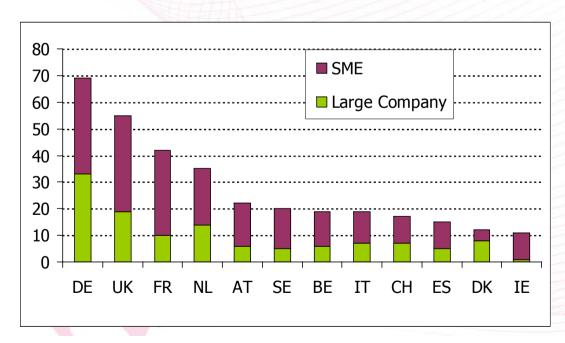
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Strengthening Innovation

- Focus on university, research organisation and business cooperation
 - 2007-2013: Businesses involved in the training of 10.000 PhDs



- Mobility of ~6000 researchers between industry and academia through staff exchange
- Small and Medium enterprises
 to benefit from about €300
 million

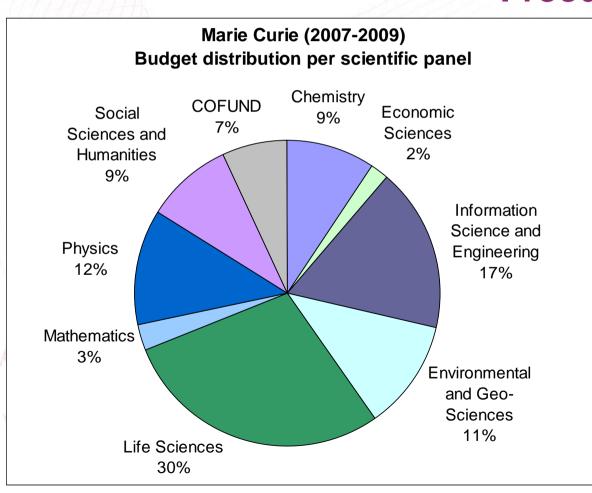
2007-2009: top 12 country distribution of participating enterprises

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Marie Curie Actions Freedom of research



2007-2009:

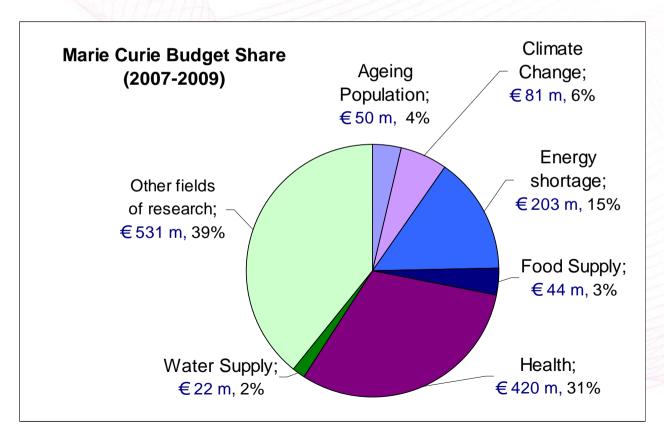
- ➤ EU contribution of €1350 million
- 3705 research projects funded
- Research topics freely chosen by applicants

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Supporting researchers in key areas for the future



2007-2009:
 1550 training
 research projects
 addressing
 directly
 major societal
 challenges





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- Europe 2020 strategy: smart/sustainable/inclusive growth
- Marie Curie Actions support 3 flagship initiatives:

✓ "Innovation Union":

- 1 million new research jobs needed
- to attract and train young people to become researchers
- quality of doctoral training, with businesses involvement
- offer internationally competitive research careers
- attractive employment conditions, gender balance



✓ "Youth on the move":

mobility of researchers across countries, disciplines and sectors



✓ "An agenda for new skills and jobs":
better skills for better jobs

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2 Implementation Modes

3 Implementation Modes

2011

2012

Multi-ITNs

Multi-ITNs

Mono-ITNs

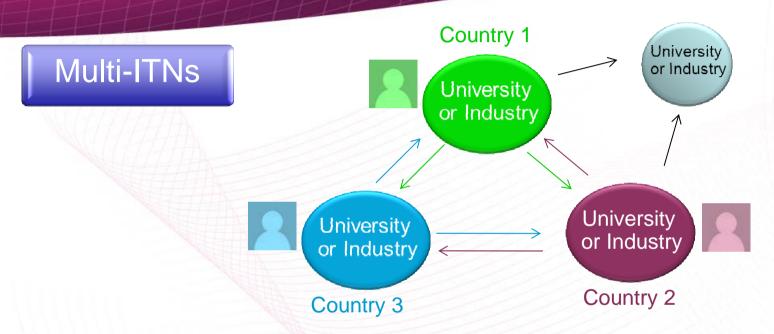
European Industrial Doctorates

MC Initial Training Networks

Innovative
Doctoral
Programmes







- > 3 participants + possible associated partners
- Short-term secondments
- Network activities

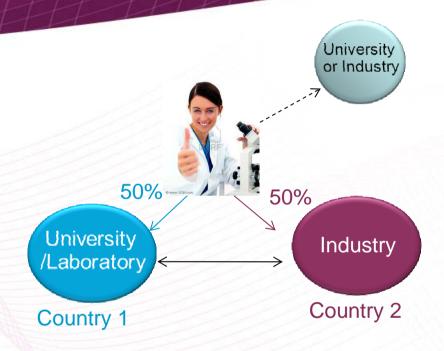
Innovative skills

Results driven





European Industrial Doctorates



- 2 participants + possible associated partners
- Long-term collaboration
- Innovative skills
- Joint supervision

Market driven

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a win-win for both sectors

Industry:

- Alternative paths to innovation risk research without the risk
- Actively directing the research towards the need of the company
- Identifying commercial opportunities and developing them within the academic environment
- Acquiring know-how and skilled research staff

Academia:

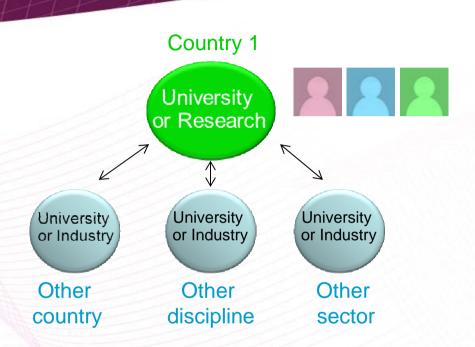
- Alternative career opportunities
- Value new generation of researchers appropriately
- Easier commercialisation of new ideas
- Increased funding potential through new collaborations
- Funded researchers

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Innovative
Doctoral
Programmes



- 1 participant + possibility of associated partners
- Short-term secondments

Critical mass

Innovative skills

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Shaping the future

- Streamlining MCA actions, further simplification of rules
- Support European Industrial Doctorates
- Support European Innovative Doctoral Programmes
- Extend the co-financing principle to early stage researchers
- New Alumni services

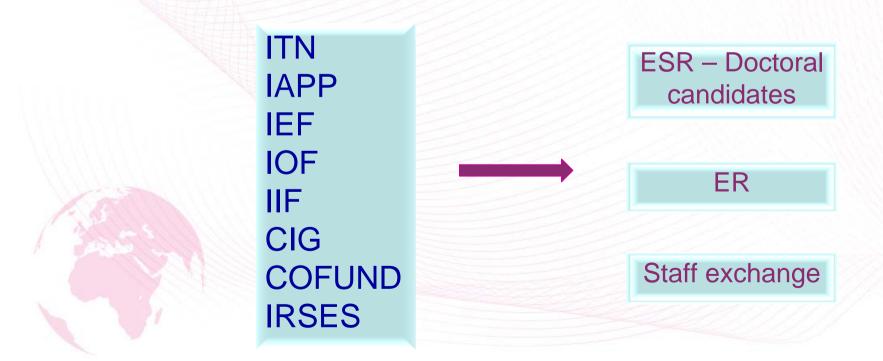
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FOR YOUR

ATTENTION



