Mobilnost istraživača u Hrvastkoj

Prof.dr.sc. Neven Duić

Euraxess Croatia
Nacionalni koordinator
hrvatske mreže mobilnosti

Rijeka, 13.6.2013

Eduard Slavoljub Penkala

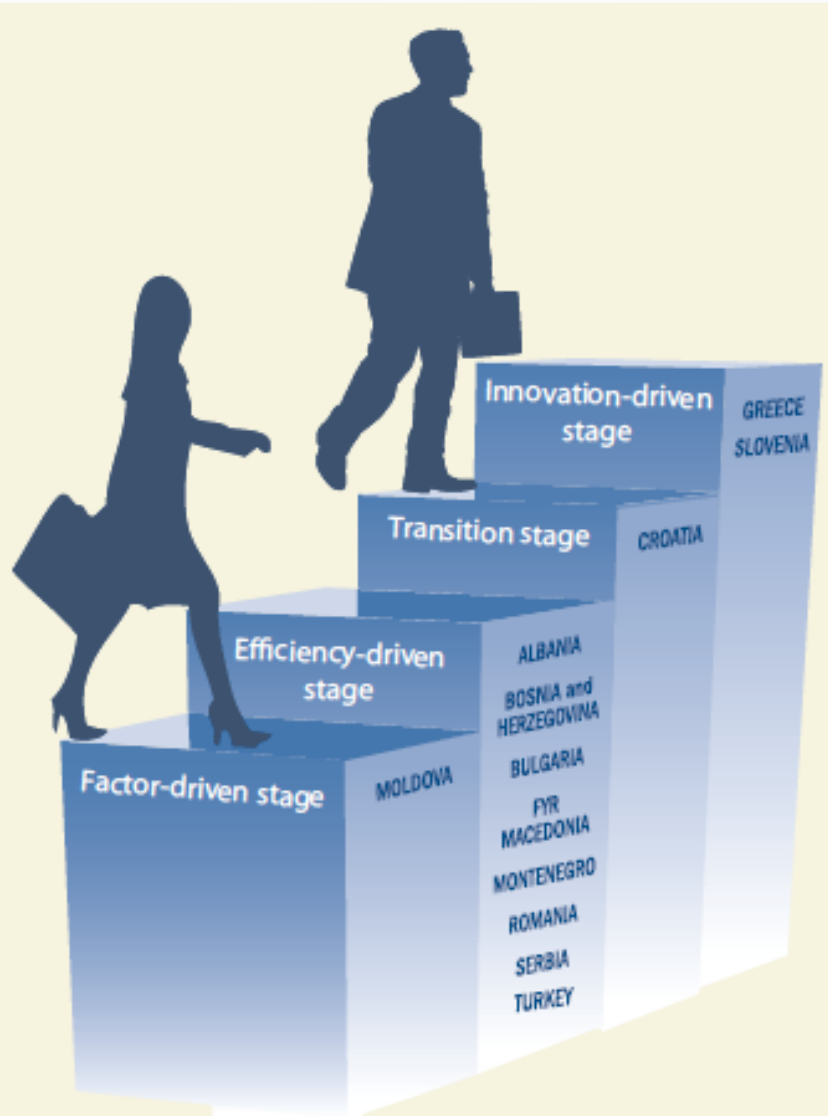
Liptovský Mikuláš, Slovačka, 1871. - Zagreb, 1922.

- Polish-Dutch
- Born in Slovakia
- Educated at University of Vienna and Technical University in Dresden
- Lives and works in Zagreb
- Cca 80 patents
- Penkala – pen

EU Researchers' Mobility Policy Background

- Researchers: 0.56% in the EU as against 0.93% and 1.06%in the US and Japan
- EU share of top 10 % most cited scientific publications is 37.5 % against a US share of 48.9 %
- Only 8 of the 76 universities in the world with the highest citation impact are located in the EU; 67 are located in the US
- In 2000, 2% of persons employed in S&T occupations in the EU were of non-EU origin, while the share of foreign-born in US S&E jobs was 22%; out of 400000 foreign researcher in US, 100000 was born in EU
- In a number of countries over 40% of the highly qualified workforce is aged 45-64, while those aged 25-34 represent only about 25

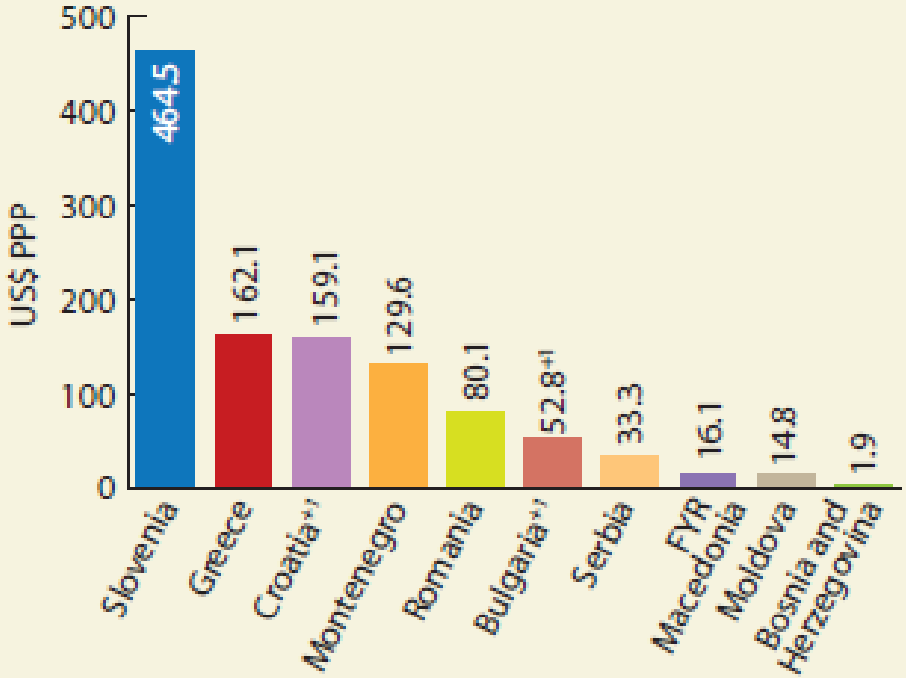
UNESCO Science Report 2010



- *The bottleneck caused by little domestic demand for R&D and a weak private sector in all but Slovenia is likely to remain a major structural weakness for Southeast European R&D systems for years to come.*

UNESCO Science Report 2010

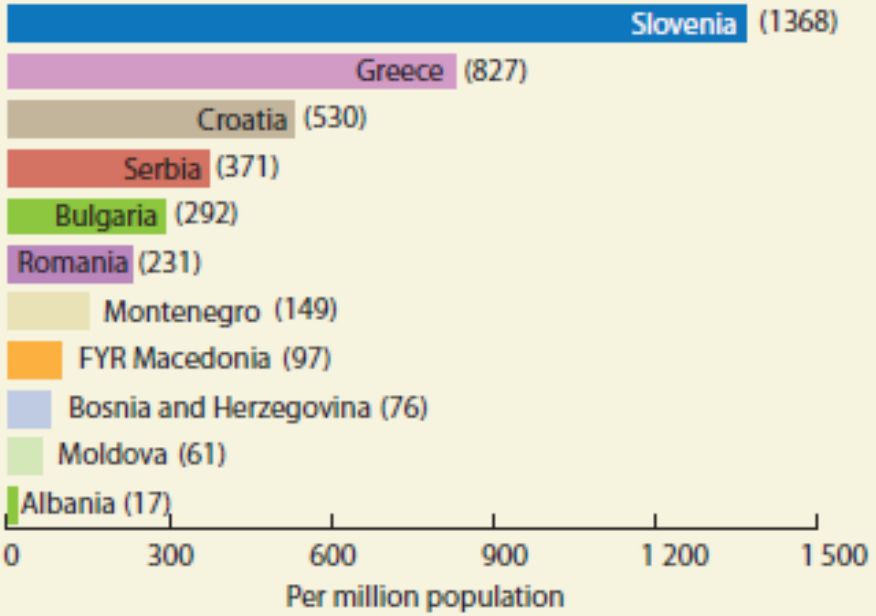
Figure 3: GERD per capita in Southeast Europe, 2007



+*n* = data refer to *n* years after reference year

Source: UNESCO Institute for Statistics database, August 2010

Figure 9: Scientific papers per million population in Southeast Europe, 2008



Source: Thomson Reuters (Scientific) Inc. Web of Science. (Science Citation Index Expanded), compiled for UNESCO by the Canadian Observatoire des sciences et des technologies. Population data from Eurostat and World Bank, March 2009

EU Researchers' Mobility Policy
Lisbon strategy and first steps

- The need for adequate human resources for R&D has been identified as a key challenge since the launch of the Lisbon Strategy in 2000 – Presidency Conclusions Lisbon European Council 23-24 March 2000
- The Commission proposed measures to increase the mobility of researchers across the ERA in 2001 and for their career development in 2003:
  - "A mobility strategy for the European Research Area" COM (2001) 331, 20.06.2001
  - "Researchers in the European Research Area: one profession, multiple careers" COM (2003) 436, 18.07.2003
- 3% of GDP in research set by the Barcelona European Council –> 600000-700000 additional researchers - Presidency Conclusions of 15-16 March 2002

EU Researchers' Mobility Policy
C&C and Scientific visa

- In 2005 the Commission adopted the **European Charter for Researchers** and a **Code of Conduct for the Recruitment of Researchers** setting out the roles and responsibilities of researchers and their employers and funders, and ways to make recruitment fairer and more transparent
- The "scientific visa" package adopted in 2005 aimed to allow fast-track admission and residence of third country researchers
  - Council Directive 2005/71/EC of 12 October 2005 on a specific procedure for admitting Third-country nationals for the purposes of scientific research ('Scientific visa') O.J. L 289/15 of 3.11.2005
- Researchers' mobility and careers were supported by funding from the FP6 (Marie Curie), further increasing in FP7 (People)

EU Researchers' Mobility Policy

Realising a single labour market for researchers

- Communication: Better Careers and More Mobility: A European Partnership for Researchers, COM(2008)317 final:
  - systematically open recruitment;
  - meet the social security and supplementary pensions needs of mobile researchers;
  - provide attractive employment and working conditions; and
  - enhance the training, skills and experience of researchers.

Charter & Code

- Acceded by (100%)
- Internal analysis (60%)
- Strategy (40%)
- Acknowledged (18%)
- 40% jobs published on EURAXESS
- More than 70 foreign researchers hosted

EURAXESS/NCP PEOPLE
staff

- Ana Grdović – expert for financial matters, head
- Manda Japunčić – jurist, expert for legal matters
- Bojana Grubišin

http://www.euraxess.hr

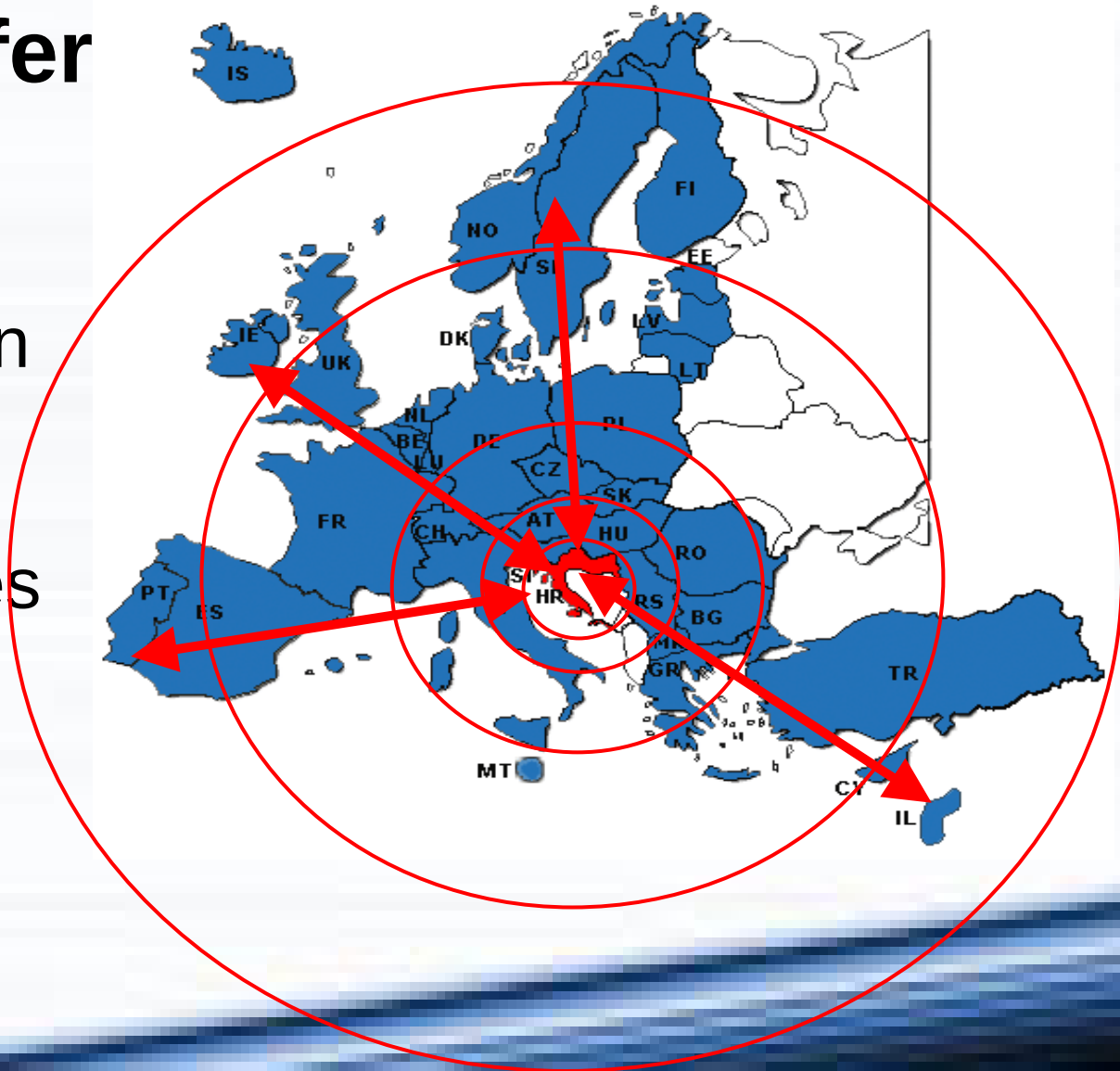
Agency for Mobility and EU Programmes (since 2007)

- EURAXESS - The European network of mobility centres, 200 mobility centres
- The European Researcher's mobility Portal, http://ec.europa.eu/euraxess
- Jobs, Rights, Services

ERA-MORE
European Network of Mobility Centres

EURAXESS Service Centres offer

- Visas
- Work permits
- Accommodation
- Legal issues
- Social security, health and taxes
- Everyday life
- Family support
- and MORE…



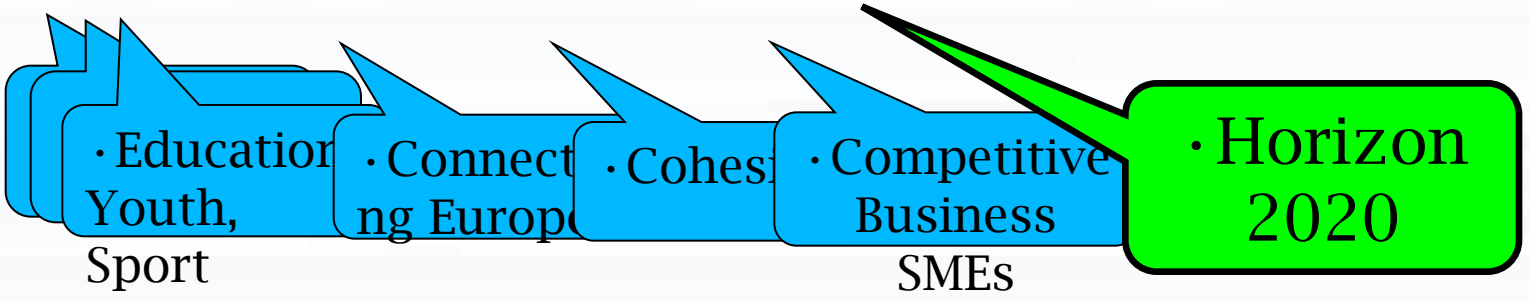
HORIZON 2020

the EU framework programme for research and innovation

The Multiannual Financial Framework 2014-2020:

Commission's proposals of 29 June 2011

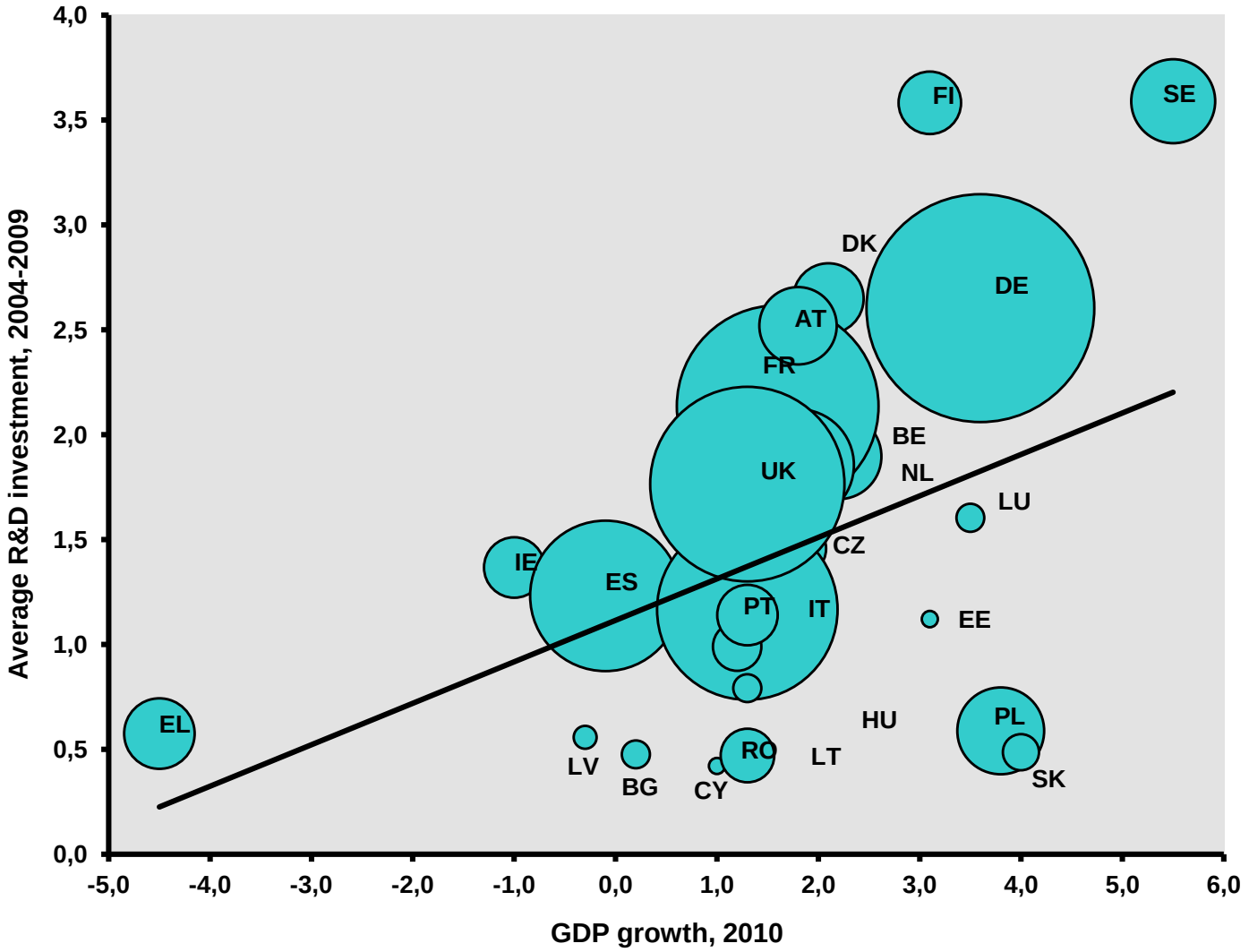
1. **Smart & inclusive growth (€491bn)**



- **2. Sustainable growth, natural resources (€383bn)**
- **3. Security and citizenship (€18.5bn)**
- **4. Global Europe (€70bn)**
- **5. Administration (€62.6bn)**

· Total:
· € 1,025bn

Impact of R&D on economic recovery



What is Horizon 2020

- Commission proposal for a 80 billion euro research and innovation funding programme (2014-20)
- Part of proposals for next EU budget, complementing Structural Funds, education, etc.
- A core part of Europe 2020, Innovation Union & European Research Area:
  - **Responding to the economic crisis** to invest in future jobs and growth
  - **Addressing peoples' concerns** about their livelihoods, safety and environment.
  - **Strengthening the EU's global position** in research, innovation and technology

•What's new

- **A single programme *bringing together three separate programmes/initiatives:***
  - ***The 7th research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)***
- **More innovation, *from research to retail, all forms of innovation***
- **Focus on societal challenges *facing EU society, e.g. health, clean energy and transport***
- **Simplified access, *for all companies, universities, institutes in all EU countries and beyond.***

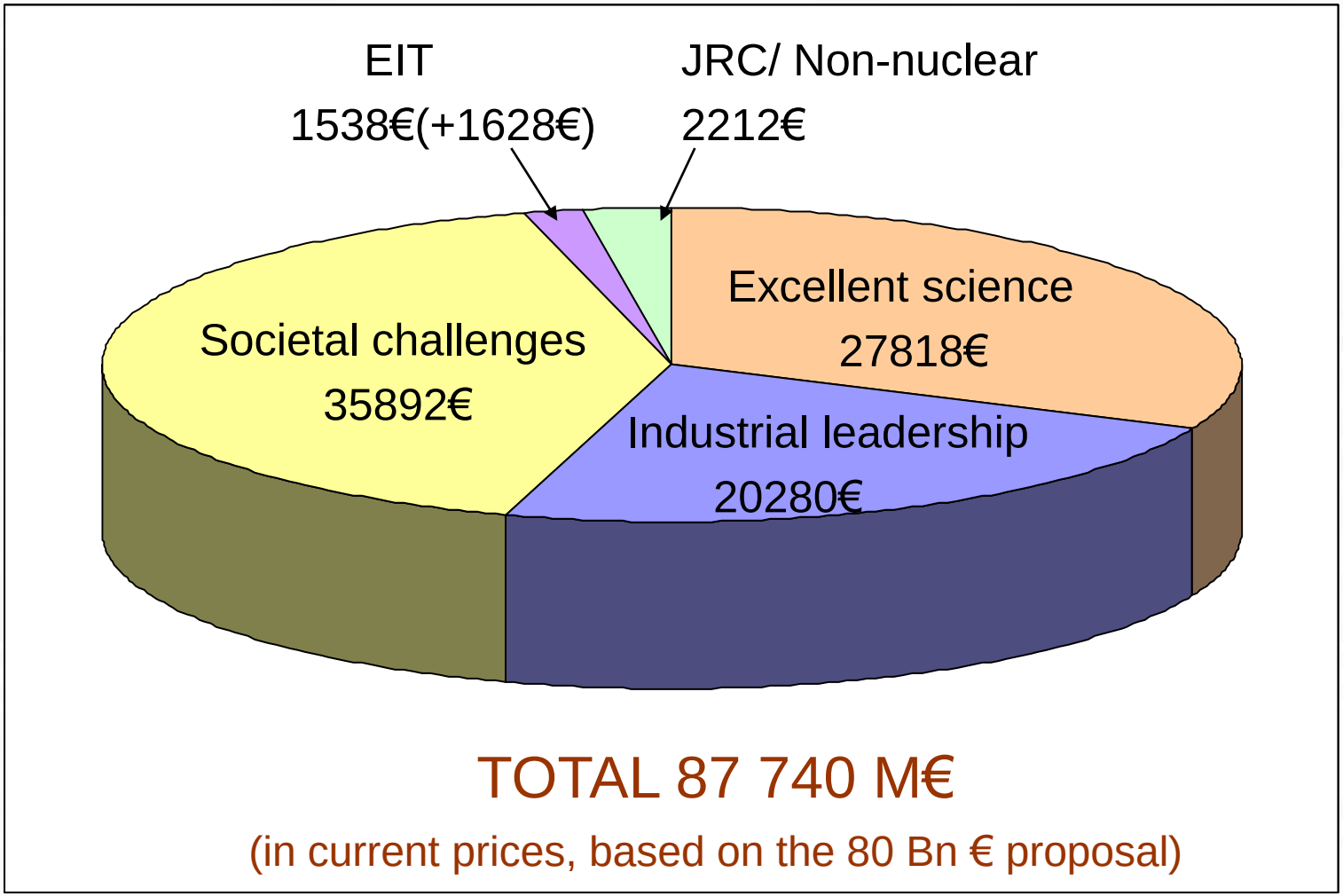
- **Three priorities of Horizon2020:**

1 Excellent science

2 Industrial leadership

3 Societal challenges

Horizon 2020: indicative budget breakdown



TOTAL 87 740 M€

(in current prices, based on the 80 Bn € proposal)

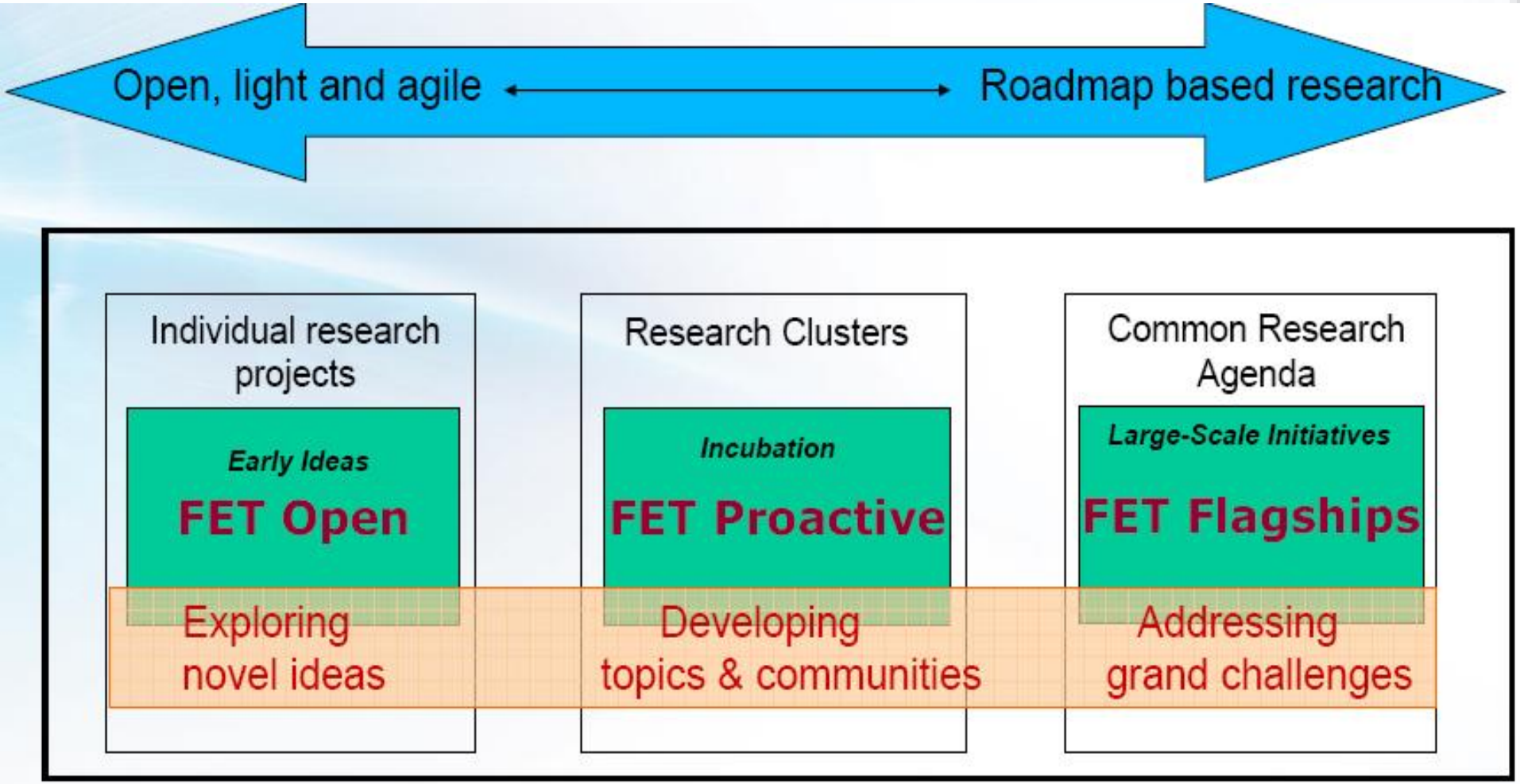
Priority 1 Excellent science

Why:

- World class science is the foundation of tomorrow's technologies, jobs and wellbeing
- Europe needs to develop, attract and retain research talent
- Researchers need access to the best infrastructures

European Research Council *Frontier research by the best individual teams*	13 268
Future and Emerging Technologies *Collaborative research to open new fields of innovation*	3 100
Marie Curie actions* *Opportunities for training and career development*	5 752
Research infrastructures (including e-infrastructure) *Ensuring access to world-class facilities*	2 478

FET in H2020: 3 complementary, inter-linked approaches



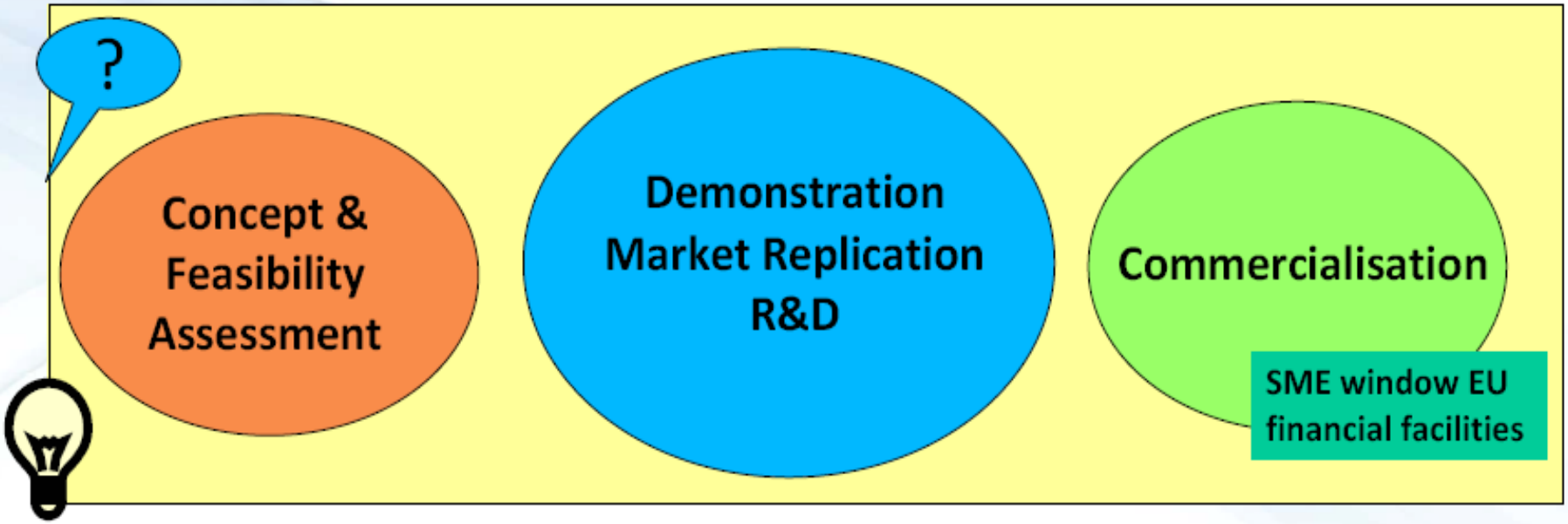
Priority 2 Industrial leadership

Why:

- Europe needs more innovative SMEs to create growth and jobs
- Strategic investments in key technologies (e.g. advanced manufacturing, micro-electronics) underpin innovation across existing and emerging sectors
- Europe needs to attract more private investment in research and innovation

Leadership in enabling and industrial technologies (*ICT, nanotechnologies, materials, biotechnology, manufacturing, space)*	13 781
Access to risk finance *Leveraging private finance and venture capital for research and innovation*	3 538
Innovation in SMEs *Fostering all forms of innovation in all types of SMEs*	619

SME instrument



Idea to concept, risk assessment, technological & commercial feasibility

Demonstration, prototyping, testing , market replication, scaling up, miniaturisation, research

Quality label for successful projects, acess to risk finance, indirect support

IDEA — continued support throughout the project — MARKET

Priority 3 Societal challenges

Why:

- EU policy objectives (climate, environment, energy, transport etc) cannot be achieved without innovation
- Breakthrough solutions come from multi-disciplinary collaborations, including social sciences & humanities
- Promising solutions need to be tested, demonstrated and scaled up

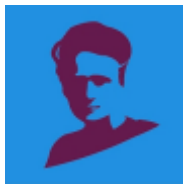
Health, demographic change and wellbeing	8 033
Food security, sustainable agriculture, marine and maritime research & the bioeconomy	4 152
Secure, clean and efficient energy*	5 782
Smart, green and integrated transport	6 802
Climate action, resource efficiency and raw materials	3 160
Inclusive, innovative and secure societies	3 819

•*Additional €1 050m for nuclear safety and security from the Euratom Treaty activities (2014-18). Does not include ITER.

FP6
MARIE CURIE ACTIONS
IxF
deadline: 14.8.2013

“PEOPLE” PROGRAMME
~€4.75 Billion

- **Initial training (~40% budget)**
  - Initial Training Networks (ITN)



- **Life-long training and career development (~25-30% budget)**
  - Intra-European Fellowships (IEF)/ Career Integration Grants (CIG)
  - Co-funding of regional/national/international programmes (COFUND);

- **Industry dimension (~5-10% budget)**
  - Industry-Academia Partnerships and Pathways (IAPP)

- **World fellowship (~25% budget)**
  - International Outgoing & Incoming Fellowships (IOF & IIF); International Staff Exchange Scheme (IRSES)

- **Policy support actions (~1% budget)**
  - Mobility and career enhancement actions

INTRA-EUROPEAN FELLOWSHIPS (IEF)

EXPERIENCED RESEARCHERS active in MS or AC

DIVERSIFICATION in skill aquisition at multi- or **interdisciplinary** level - **inter-sectoral** mobility

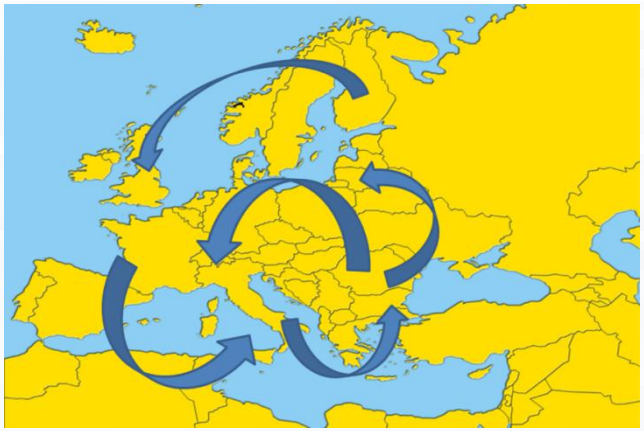
Stregthening a LEADING INDEPENDENT position

RESUMING a career in research

12 to 24 months

Application - researcher together with the host organization

Personal Career Development Plan (training needs, transferable skills)



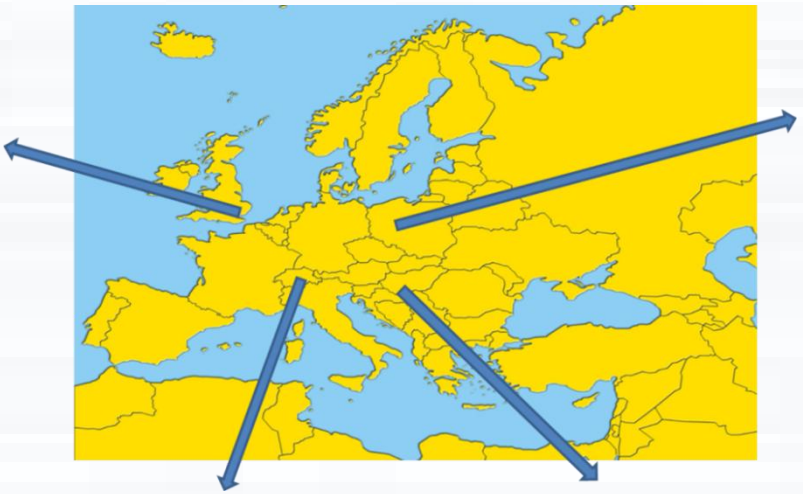
'Associated countries‘ = Croatia, Albania, Iceland, Israel, Liechtenstein, the Former Yugoslav Republic of Macedonia, Montenegro, Moldova, Norway, Serbia, Switzerland and Turkey.

INTERNATIONAL OUTGOING FELLOWSHIPS (IOF)

Outgoing phase - 12 to 24 months in a high-level research organisation (PARTNER ORGANIZATION) in an Other Third Country.

Return phase - 12 months in a HOST ORGANIZATION established in MS or AC.

Project proposals - submitted by ER with a **HOST ORGANIZATION** represented by the scientist in charge who will supervise the researcher during the whole duration of the project and acts as a **COORDINATOR**.



Personal career development plan (with supervisor)

IOF - develop fellow's competences (multi- or interdisciplinary expertise, inter-sectoral experience and complementary skills)

Other Third Countries: neither EU members nor associated to FP7 (Associated Countries)

INTERNATIONAL INCOMING FELLOWSHIPS (IIF)

IIF funding is provided for a research project which will **TRANSFER KNOWLEDGE** into **HOST ORGANISATION** building or enhancing collaborations between Europe and the rest of the world.

It should advance the career of the fellow

Financial support is provided for 12-24 months (full-time equivalent).

Funding allows to:

- join a European research team that doesn't have

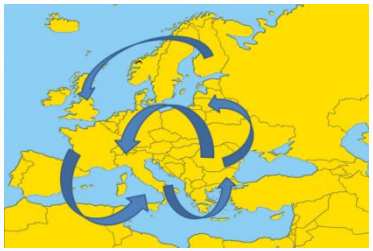
fellows experience

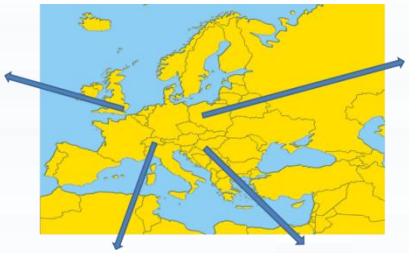
- **establish an international collaboration** through a research project

- gain new knowledge in a European lab.

IIF may also cover a **return phase** of up to one year (contribution to research cost) to ICPC.

FINANCES





Living allowance	€58500 per year (ER 4-10 years of experience)
Monthly mobility allowance	€700 or €1000 (family status)
Contribution to training expenses	€800 per month
Overheads and management	€700 per month

- Correction factor for Croatia: 0.83

CAREER-INTEGRATION GRANT (CIG)

EXPERIENCED RESEARCHER who is offered **a stable research post in Europe after a period of mobility**.

Career-integration grant is a **flat-rate payment of €25000 per researcher per year (2-4 years).**

Host institution must ensure integration of the fellow for at least the duration of the grant.

Transfer of knowledge aquired prior to CIG.

Intergration host organisation must provide the researcher with a full time employment contract with a salary.

Cooperation with the scientific or industial environment of the country from which they have moved.

Deadline: 18.09.2013.

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European Commission

RESEARCH & INNOVATION
Marie Curie Actions

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Marie Curie COFUND – reaching further: Bridging the gap between European, regional, national and international fellowship programmes

NEWFELPRO, the 100th COFUND Fellowship Programme goes to CROATIA! – Congratulations! Read more

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Open calls

FP7-PEOPLE-2013-IEF
Deadline:14/08/2013

FP7-PEOPLE-2013-IOF
Deadline:14/08/2013

FP7-PEOPLE-2013-IIF
Deadline:14/08/2013

FP7-PEOPLE-2013-CIG
Deadline:18/09/2013

- See all open calls

Marie Curie Actions - Research Fellowship Programme

Marie Curie Fellowships are European research grants available to researchers regardless of their nationality or field of research. In addition to generous research funding scientists have the possibility to gain experience abroad and in the private sector, and to complete their training with competences or disciplines useful for their careers. Read more about various funding schemes and requirements for applying.

- Discover more about Marie Curie Actions fellowships
- Check the open calls available for you
- Find the latest jobs and traineeship opportunities

JOB VACANCIES for you

WHICH ACTIONS are suited for me?

IPR Helpdesk Intellectual Property Rights

GETTING MORE INFORMATION

· PART B WRITING and EVALUATION

· **B1 RESEARCH AND TECHNOLOGICAL QUALITY (maximum 8 pages)**

· **Weighting: 25%**

· **Threshold: 3/5**

· Research and technological quality, interdisciplinary and multidisciplinary aspects

· Appropriateness of research methodology and approach

· Relation to ‘state of the art‘ - Originality and innovativness

· Timeliness and relevance of the project

· Host research expertise in the field, quality of the scientist in charge

· PART B WRITING and EVALUATION

· **B3 RESEARCHER (max 7 pages includes CV and main achievements)**

· **Weighting: 25%**

· **Threshold: 4/5**

· Research experience

· Research results including patents, publications, teaching (level of experience)

· Independent thinking and leadership qualities

· Match between the fellow's profile and project

· Potential for reaching professional maturity and acquiring new knowledge

· **B4 IMPLEMENTATION (max 6 pages)**

· PART B WRITING and EVALUATION

- **B5 IMPACT (max 4 pages)**
- **Weighting: 20%**
- **Threshold: 3.5/5**
- Impact of competencies acquired during the fellowship on the future career (transferable skills training including industry sector)
- Contribution to career development: short and long term
- Benefit of the mobility to the European Research Area
- Development of lasting cooperation and collaboration with other countries
- Contribution to European excellence and

SOME MCA STATISTICS

Overall European success rate of the last evaluated calls:

IEF: 18%

IOF: 19%

IIF: 16%

CIG: 30%

Croatian participation 2010-2012:

IEF (incoming): 5.2% (1/19)

IEF (outgoing): 21% (12/57)

IOF: 6.7% (1/15)

IIF: 0% (0/4)

CIG: 38% (5/13)

WINNERS PROFILE

- Scores over 87%
- Obtained PhD in less than 5 years
- Coming from scientifically strong groups, good publication record
- Going to scientifically strong groups (experienced in FP6, FP7 proposal writing), leaders in the field
- Proposals with no mistakes

· What will happen to Marie Curie Actions after 2014?

„TRIPLE – I – DIMENSION" international, interdisciplinary and inter-sectoral mobility

· Under **Horizon 2020 Marie Skłodowska-Curie Actions (MSCA)** will become the main EU programme offering support for excellent doctoral training, supporting 25 000 PhDs (industrial doctorates, joint doctorates, and other innovative forms of research training), nurturing excellence by cross-border and cross sector mobility for ER.

· Emphasis on combining research with skills that **maximise employability**.

NEWFELPRO

International Fellowship Mobility Programme for ER in Croatia of the Government of the Republic of Croatia and the Ministry of Science, Education and Sport (MSES) for the period from 2013 until 2017.

Co-financed through the Marie Curie FP7-PEOPLE-2011-COFUND program.

€7 million (60% from national sources).

NEWFELPRO will launch three open calls for proposals

- The first call is expected in **July 2013**, and will be open for a period of 90 days, **until October 2013**.
- E-mail**: newfelpro@mzos.hr**

Thank you for your attention!

Neven.Duic@fsb.hr