



JLU

DAS LEBEN STUDIEREN  
DIE WELT ERFORSCHEN

# European Research Funding

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Forschung

# Horizon 2020 – Framework Programme for Research and Innovation

## Part I – Excellent Science

1. European Research Council (ERC)
2. Future and Emerging Technologies (FET)
3. Marie Skłodowska-Curie Actions (MSCA)
4. European Research Infrastructures, including e-infrastructures

## Part II – Industrial Leadership

1. Leadership in Enabling & Industrial Technologies (LEIT)
  - Information and Communication Technologies
  - Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing and Biotechnology
  - Space
2. Access to Risk Finance
3. Innovation in SMEs

## Part III – Societal Challenges

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture, marine, maritime and inland water research and the bioeconomy
3. Secure, clean and efficient energy
4. Smart, green and integrated transport
5. Climate action, environment, resource efficiency and raw materials
6. Inclusive, innovative and reflective societies
7. Protecting freedom and security

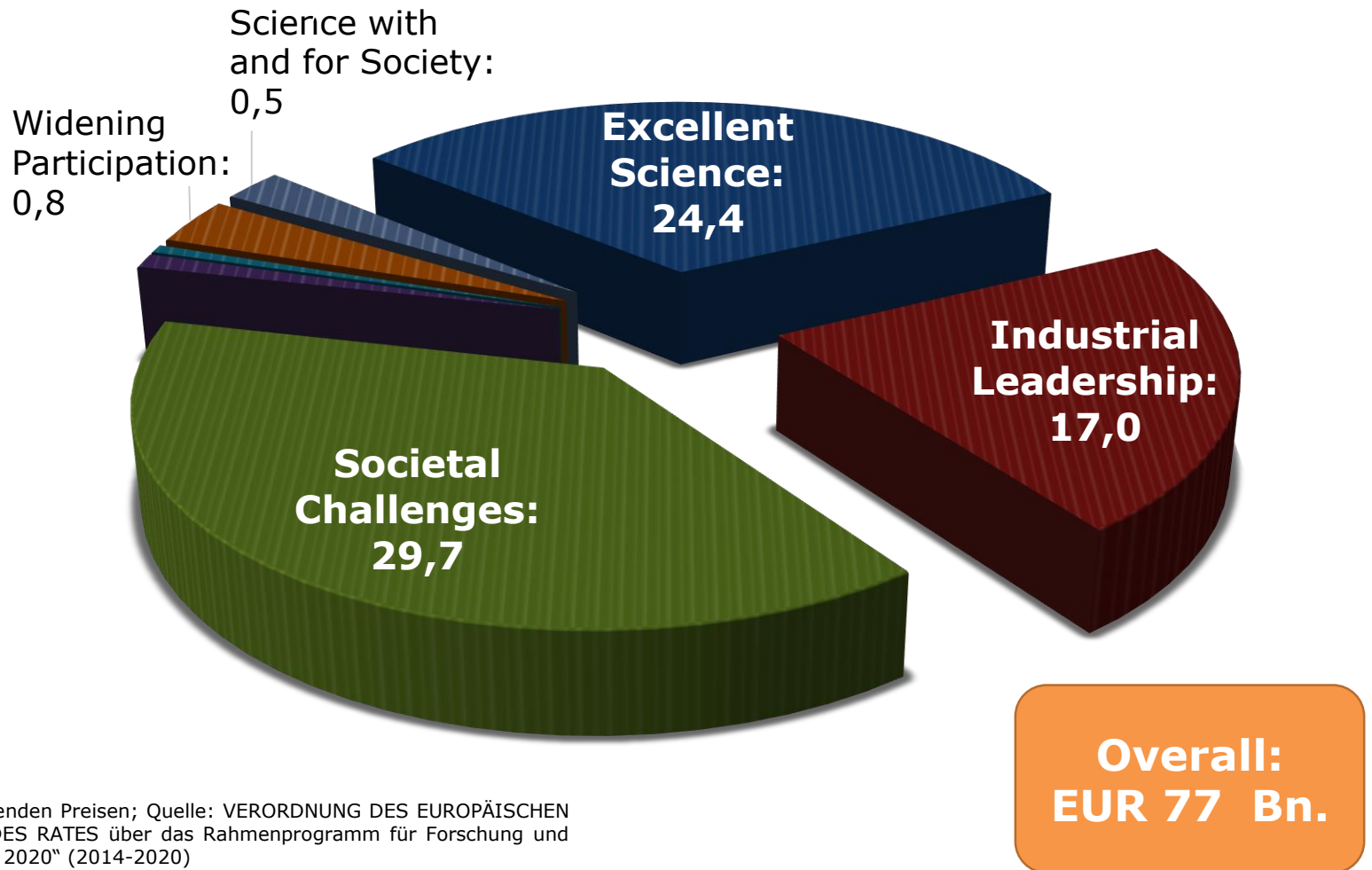
**Part IV  
Spreading excellence &  
widening participation**

**Part V  
Science with &  
for Society**

**Non-nuclear direct  
actions of the Joint  
Research Centre (JRC)**

**The European  
Institute of Innovation  
and Technology (EIT)**

# Horizon 2020 Budget (in bn. EUR)



Alle Angaben in laufenden Preisen; Quelle: VERORDNUNG DES EUROPÄISCHEN PARLAMENTS UND DES RATES über das Rahmenprogramm für Forschung und Innovation „Horizont 2020“ (2014-2020)

# Excellent Science (EUR 24.43 billion)\*

European Research Council (ERC)	EUR 13.09 billion
Future and Emerging Technologies	EUR 2.70 billion
Marie Skłodowska-Curie Actions (MSCA)	EUR 6.16 billion
European Research Infrastructures	EUR 2.49 billion

\*current prices, figures rounded

# ERC – Principals & funding modalities

- European funding of **basic** research (“frontier research”)
- Open to all fields of research: **bottom-up**, investigator-driven
- Open for researchers of any age and nationality
- ⇒ **Scientific excellence** as sole criterion for evaluation!
  - **Project**: Ground-breaking nature, ambition and feasibility, as well as the
  - **PI**: Intellectual capacity, creativity and commitment.
- **Funding of individuals: Principal Investigator + project**
- **Funding: 100% + 25%**
  - All direct project costs: living allowance, travel expenses, consumables, publication and research-related costs, purchase of major equipment within the limits of depreciation rules
  - Additional financing of indirect costs: 25% overhead

# Starting and Consolidator Grants 2017 – Overview

Target group	Researchers 2-7/7-12 years after PhD, date as indicated on the PhD certificate until January 1, 2017 (extensions in exceptional cases possible; special rules for MD)
Nationality	Researchers of any nationality
Funding	max. EUR 1.5/2.0 million for max. 5 years (+ EUR 500.000/ 750.000 e.g. for major equipment & PIs from Third Countries)
Topic	Open to all areas of research (bottom up)
Time commitment	≥ 50% (StG) respectively 40% (CoG), both: ≥ 50% in Europe
Application/evaluation	Single submission of full proposal (24 pages) / two-step evaluation (incl. Interview)/ 25 panels
Call for proposals	StG: Publication: July 2016 Deadline: November 2016 CoG: Publication: October 2016 Deadline: February 2017

# Prolonged eligibility

- **Calculation of the eligibility time window:**
  - Time elapsed between date on the PhD certificate and **1 January 2017**
- **Prolonged eligibility for maternity/paternity leave**
  - **Mothers: 18 months for each child** born after or before PhD award
  - **Fathers: actual documented amount of paternity leave** for each child born after or before PhD award
- **Other reasons:**
  - Documented elapsed time for long-term illnesses (> 90 days) of the PI or a close family member, clinical training and national service after PhD



# Medical Doctor (MD)

- **Principal Investigators who are MDs have to have:**
  - **Additional PhD**
- OR
- Appointment that requires **doctoral equivalency** (postdoc fellowship, professorship, ...)
- AND
- **Research experience** (in any case)
- **Eligibility time-window:**
  - 4-9 years past MD for Starting Grants
  - 9-14 years past MD for Consolidator Grants

# Evaluation process – Peer review

- **Selection of panel members through the Scientific Council**
- **Domain specific evaluation panels: panel chair and 10-15 panel members**
- **Three scientific domains:**
  - Physical Sciences & Engineering (PE): 10 Panels
  - Life Sciences (LS): 9 Panels
  - Social Sciences & Humanities (SH): 6 Panels
- **Applicants choose panel and indicate one or more keywords**
- **Interdisciplinary proposals evaluated by regular panels and external expertise**
- **Panels are assisted by external reviewers**

# Proposal – Structure

- **Administrative forms (Part A)**
  - A1: General Information (abstract proposal, primary/secondary panel)
  - A2: PI and Host institution
  - A3: Budget
  - A4: Ethics
  - A5: Call specific questions (academic training of PI, exclusion of experts)
- **Research proposal (Part B)**
- **Annexes**
  - Commitment of the host institution (host support letter)
  - StG/CoG: PhD certificate (and supporting documentation)
  - Ethical Issues Annex (if applicable)
  - Security Aspects Letter (if applicable)

# Evaluation steps and Proposal – Overview

Maximum 24 pages (excl. References)

## B1 – Evaluation in step 1

Extended synopsis

5 S.

CV

2 S.

Track Record

2 S.

Funding ID

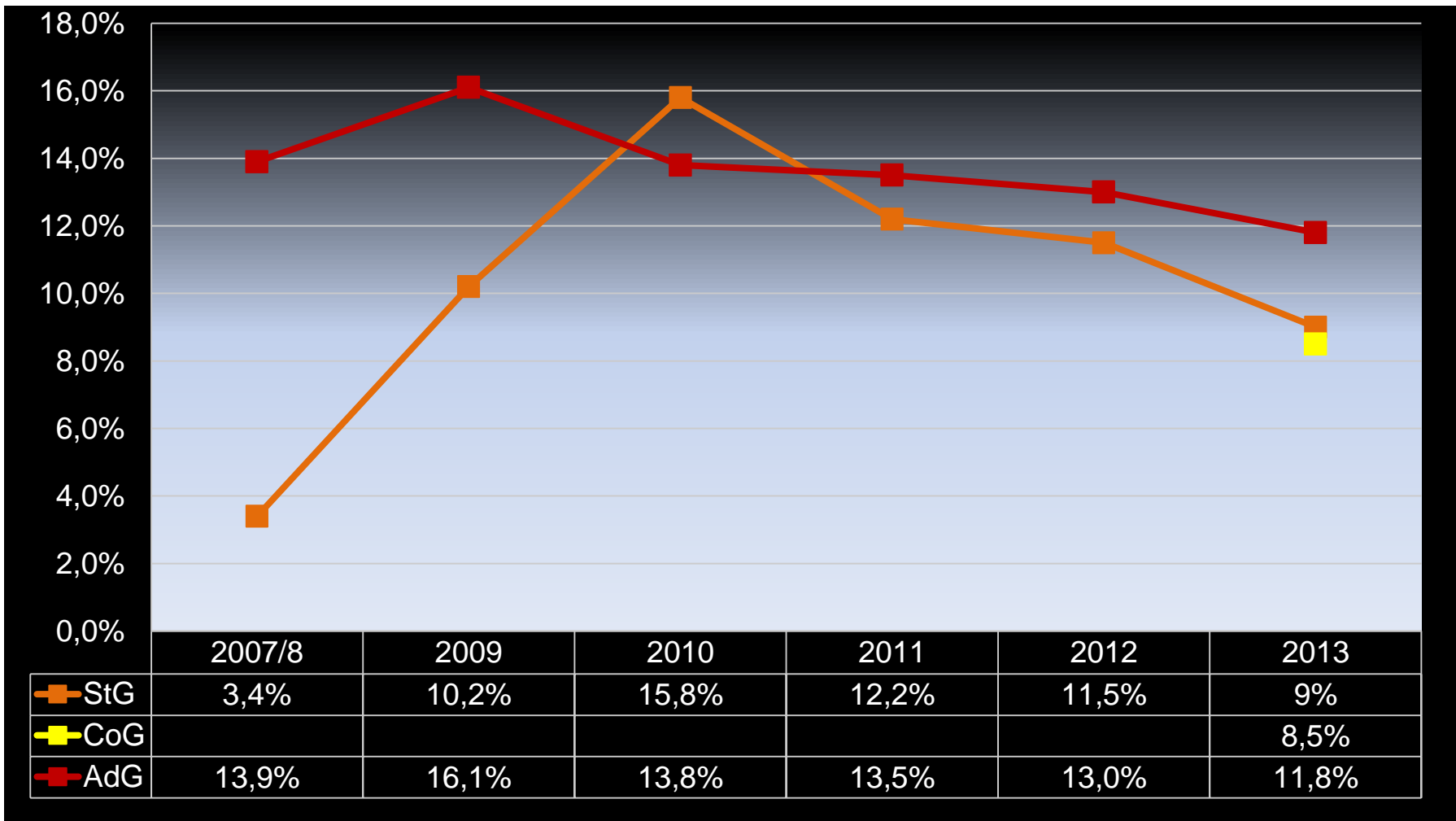
## B2 – Evaluation in step 2

Scientific proposal

15 S.

**Both steps: Ranking list of proposals established**

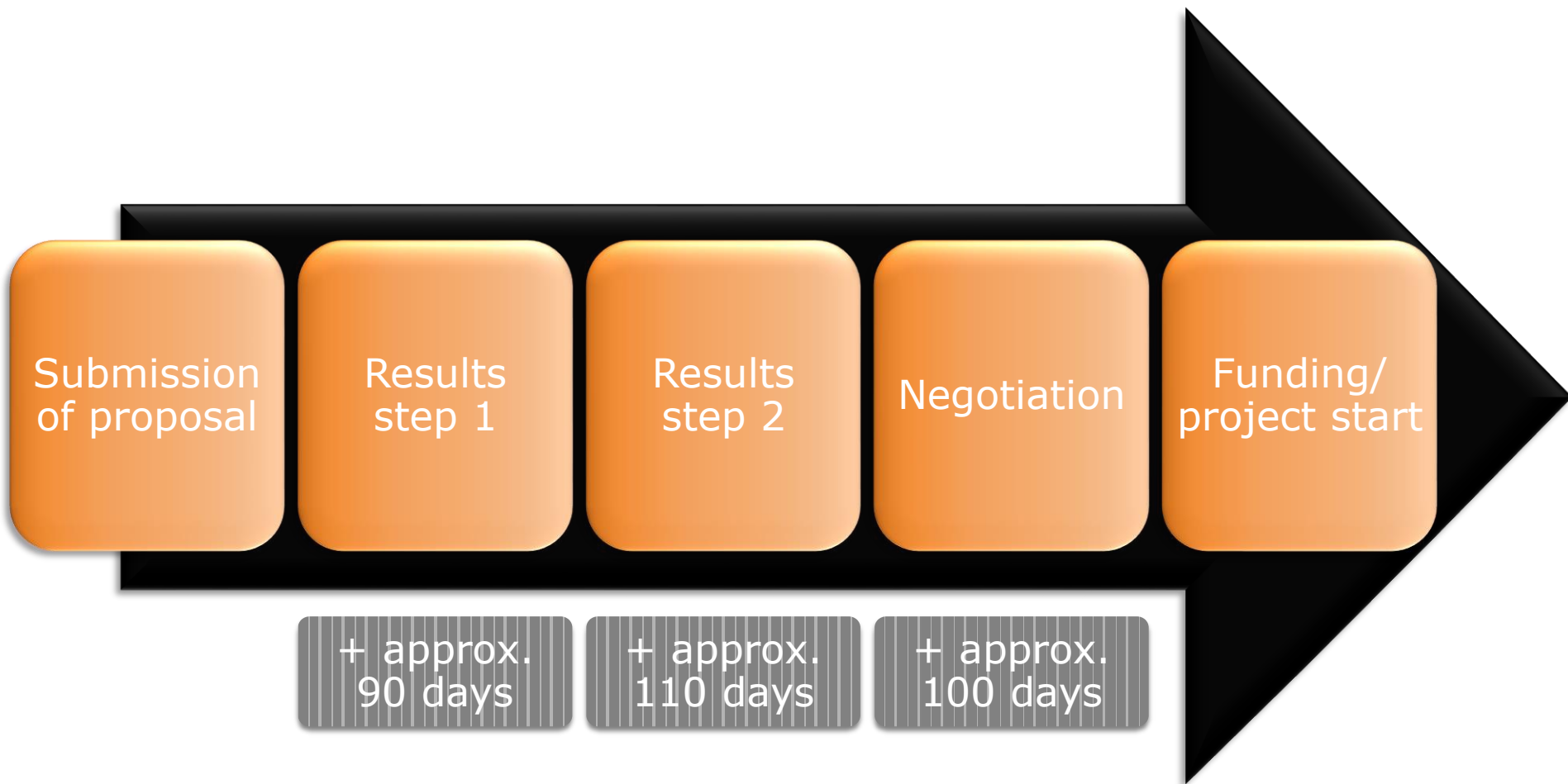
# ERC success rates



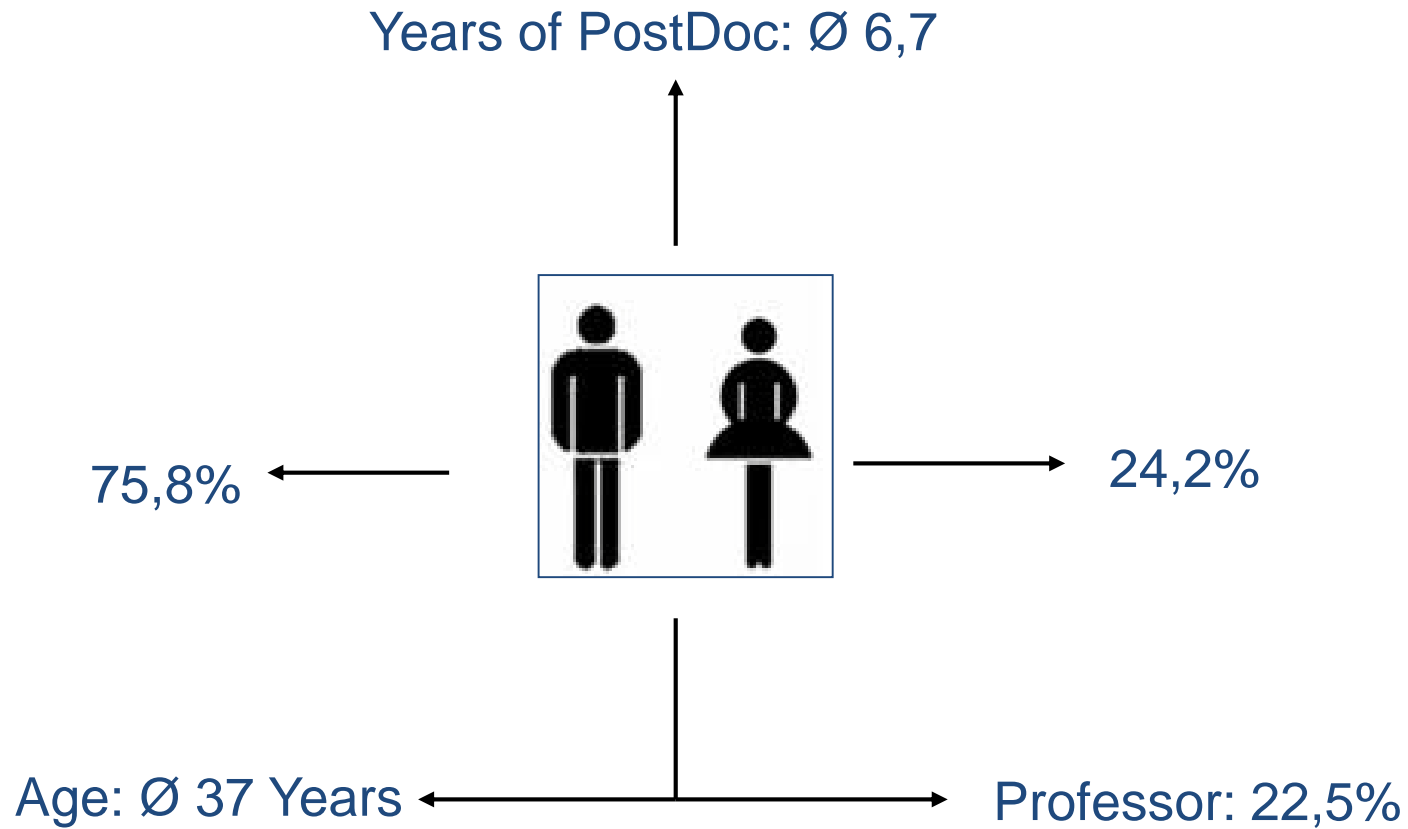
# ERC Grantees – Profile features

- **(Several) mobility experiences**
- **Solid third-party funding**
- **Publications in top-ranked international journals**
- **Memberships in academies and editorial boards, review activities**
- **Distinct (inter)national research cooperation with leading researchers**
- **Supervision of early stage researchers**

# From submission to funding $\approx$ 10 months



# Profile of successful ERC Starting Grantees





# General principals of the Marie Skłodowska-Curie Actions

Transnational & intersectoral mobility

No age limits, but research experience

Bottom up – funding

Individual career path of the researcher

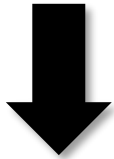
# Classification of Research Experience

MSCA classification	Status	Research experience after graduation
<b>Early Stage Researchers</b>	PhD student	< 4 years
<b>Experienced Researchers</b>	Postdoc	≥ 4 years <u>or</u> PhD

Fellow must **not** have spent **more than 12 months** in the last **3 years** in the future host country

# Marie Skłodowska-Curie Actions – Instruments

Structured  
Doctoral  
Training



**Innovative Training Networks (ITN)**  
**European Training Networks (ETN)**  
**European Industrial Doctorates (EID)**  
**European Joint Doctorates (EJD)**

Individual  
Fellowships  
(Postdocs)



**Individual Fellowships (IF)**  
European Fellowship (EF)  
Global Fellowship (GF)

Staff Exchange



**Research and Innovation Staff  
Exchange (RISE)**  
(international & intersectoral mobility)

COFUND

# Individual Fellowships – Overview

Aim	Realisation of individual research projects in liaison with a host institution in a MS, FP-AC or third country
Eligibility	Postdocs or researchers of any nationality with $\geq 4$ years of research experience
Criteria	<ul style="list-style-type: none"><li>• Mobility rule</li><li>• Submission with host institution (<i>academic/non-academic</i>)</li><li>• Optional: intersectoral secondment (in Europe)</li></ul>
Duration	EF: 12 – 24 months GF: 12 – 24 months, mandatory return phase of 12 months
Funding	Living/mobility/family allowance (as a rule: work contract), contribution to training & research costs, management & overhead
Topic	Open to all areas of research („bottom up”) basic research → market uptake → innovation services
Proposal/Evaluation	Electronic submission (max. 10 p. plus CV, annexes), one-step evaluation in 8 panels
Publication	12 April 2016
Deadline	14 September 2016 (5 pm Brussels local time)

# Financing – IF 2016/7

- Living allowance (*country correction coefficient)	<b>Fellow</b>	4.650 * 12 M
- Mobility allowance		600 * 12 M
- Family allowance		500 * 12 M
- Research, training and networking costs	<b>Host</b>	800 * 12 M
- Management & Overhead		650 * 12 M
<b>Total</b>		<b>86,400 EUR</b>

**Employer's gross**

Example country correction coefficient 100%

**EUR/M 5,750**

**EUR/Y 69,000**

Example Germany (\*country correction coefficient 98.8%) = EUR/M 5,694.20

# One-step Evaluation: criteria and panels

## **Excellence**

(Weighting: 50%)

## **Impact**

(Weighting: 30%)

## **Implementation**

(Weighting: 20%)

- At least 3 reviewers evaluate a proposal

## **Eight main evaluation panels:**

- **Chemistry (CHE)**
- **Social Sciences and Humanities (SOC)**
- **Economic Sciences (ECO)**
- **Information Science and Engineering (ENG)**
- **Environment and Geosciences (ENV)**
- **Life Sciences (LIF)**
- **Mathematics (MAT)**
- **Physics (PHY)**

## Zuständigkeiten Stabsabteilung Forschung (StF)

### Nationale, internationale Förderung sowie interne Forschungsförderung

Dr. Gunther Gerlach (Tel. 12112), N.N. (Tel. 12113),  
Andreas Schulte. M.A., Dipl.-Journ. (Tel. 12114)

### EU -Forschungsförderung

Dr. Christian Veldman (Tel. 12117)

### Forschungsinformationssystem

PD Dr. Fred Jopp (Tel. 12104)

### Preise und Auszeichnungen

M.A. Jörg Fischer (Tel. 12111)

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