





The European Research Council (ERC) in Horizon 2020

Stefanie Schelhowe EU-Bureau of the BMBF National Contact Point ERC Garching, 26 November 2013







Excellence as sole criterion

All research fields

European Research Council

"Bottom-Up"



Investigator-driven

Portability of grants

Groundbreaking Frontier Research

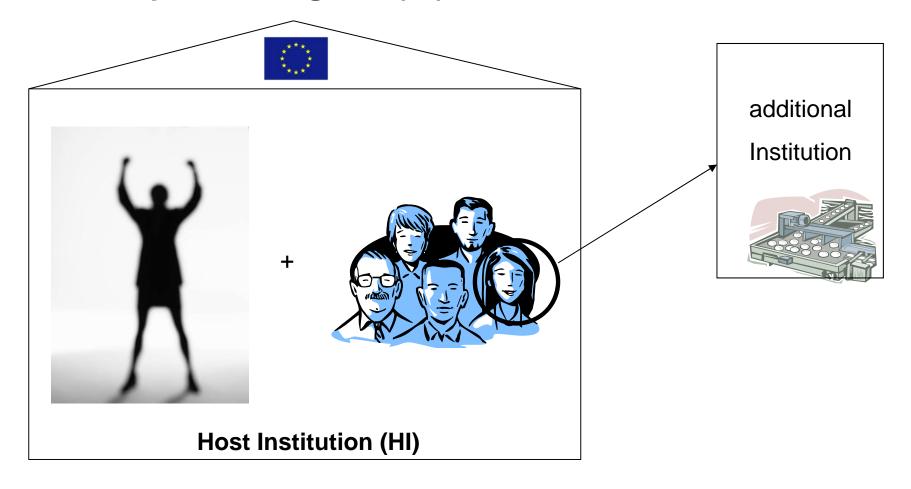
Scientific Autonomy







Principal Investigator (PI) + Team









ERC Funding Schemes & Deadlines

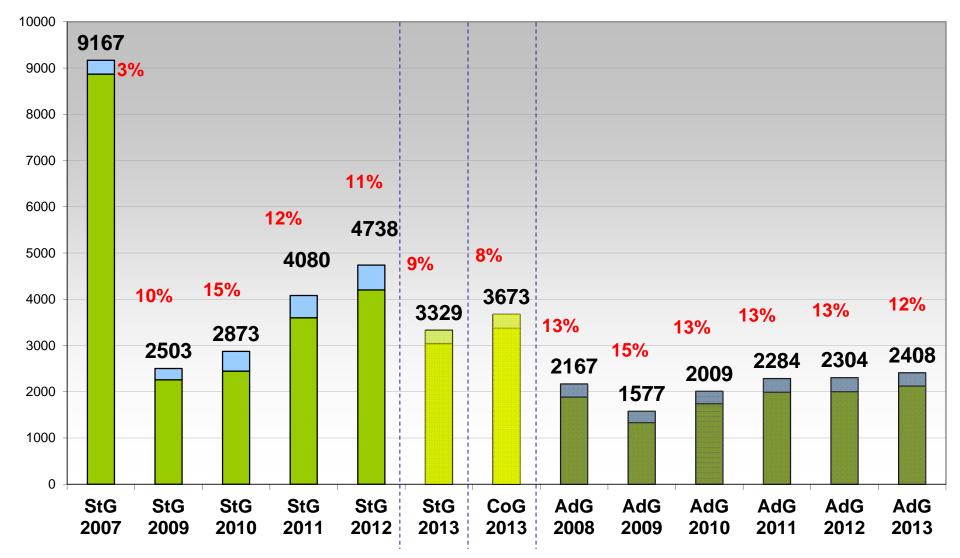
	Starting Grants StG	Consolidator Grants CoG	Advanced Grants AdG	Synergy Grants SyG	Proof of Concept
Target group	Scientists 2-7 years after PhD	Scientists 7-12 years after PhD	established scientists	2-4 scientists as PI's	Successful ERC- Grantees
Max. duration	5 years	5 years	5 years	6 years	12-18 months
Max. budget	1.5 M€ (2 M€)*	2 M€ (2.75 M€)*	2.5 M€ (3.5 M€)*	15 M€	150 000 €
Indicative Deadlines	25 March '14 3 Feb '15	20 May '14 12 March '15	21 Oct '14 2 June '15	No Call in 2014!	April & Oct







ERC Calls in FP7 – submissions and success rates

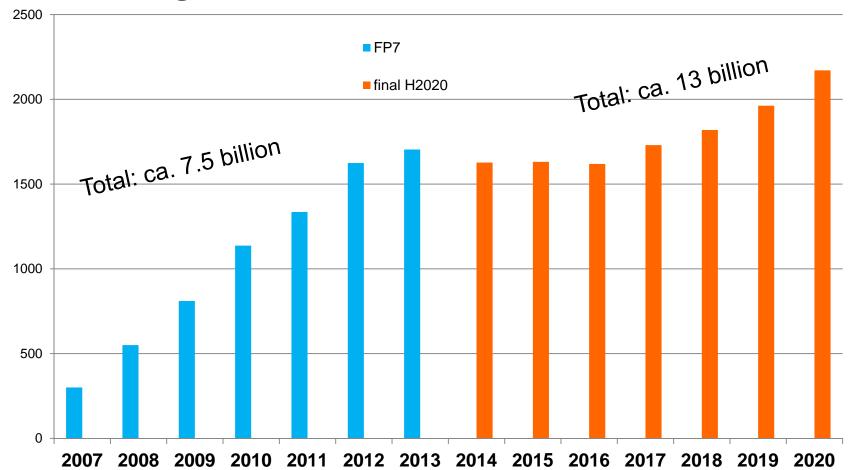








ERC Budget FP7 & Horizon 2020

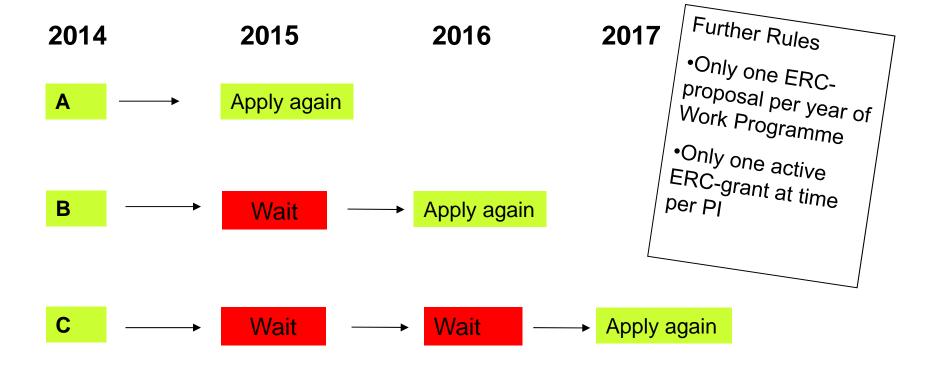








New Re-application Rules









StG / CoG: eligibility



2-7 or 7-12 years after first PhD - strict

- Date on PhD certificate -> publication date of the Call
- Certain career breaks accepted
 - birth of children (female researcher): 18 months per child
 - paternity leave: exact number of days taken
 - military/civil service after PhD
 - long-term illness after PhD (>90 days)
 - "clinical training"









Profile of Principle Investigator (PI)

Soft (peer-review evaluation)

- Promising Track Record
- At least one (Starting) or several (Consolidator) important publications without PhD supervisor

At least 50% of working time on the ERC project







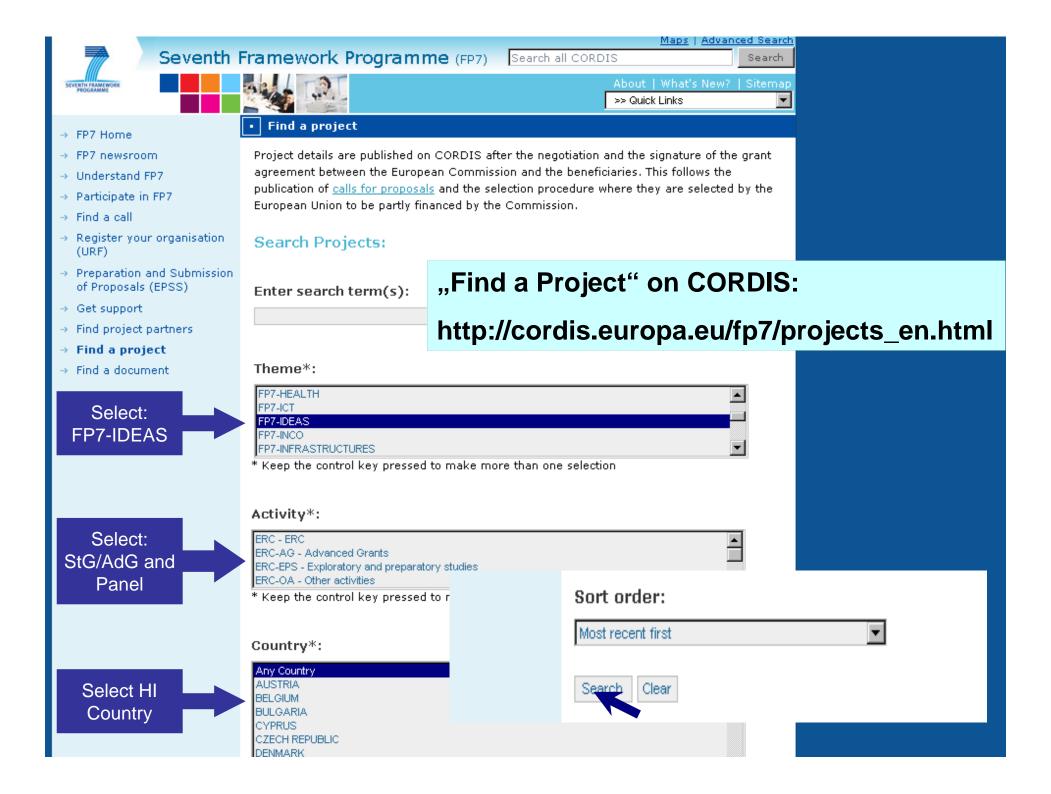


Advanced Grants: eligibility & profile

- No formal requirements!
- Outstanding achievements in the previous 10 years
 - Publications as senior author in renown international journals
 - Conference Invitations, Prizes, Patents

At least 30% working time on the ERC project







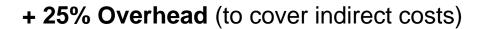




Funding

Direct Costs – 100% covered

- (part of) PI's salary
- PostDocs, PhD Students, Technicians etc.
- Consumables
- Equipment Costs (depreciation rates)
- Travel Costs
- Publications Costs (incl. OpenAccess)
- Subcontracts
- Other





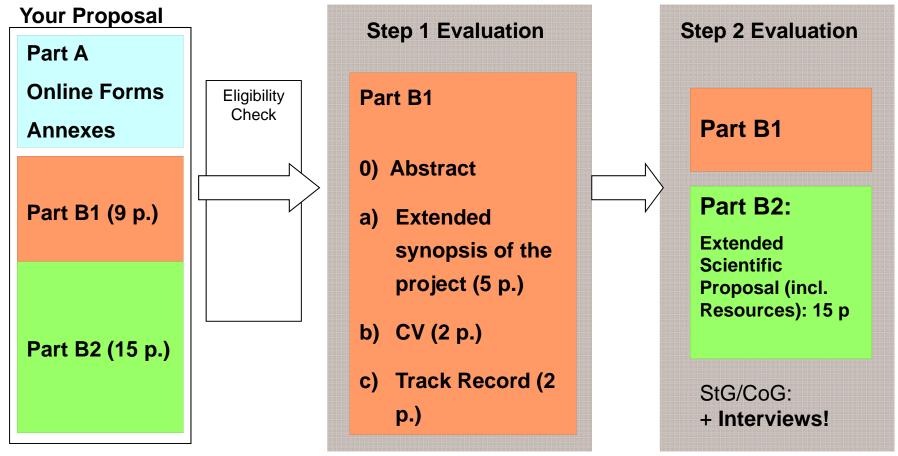
Contact your Host Institution!!







Application / Evaluation (StG, CoG, AdG)



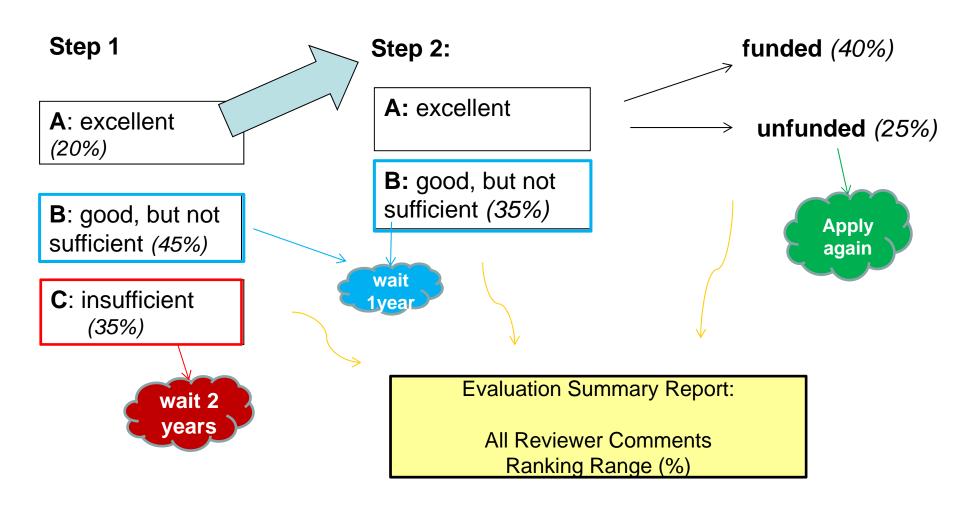
Proposals in step 2: max. 3x of panel budget







Marking & Feedback









Choosing a topic

- "Propose a project that comes from your heart"
- "Be excited about your project"
- Creative, innovative, feasible
- An important challenge of your field
- Balance between "not ambitious enough" and "too ambitious" fitting to your profile
- opportunity to define your research field
- Unique selling proposition







Choosing the right panel...

- 25 panels
 - 10 Physical Sciences and Engineering (PE)
 - 9 Life Sciences (LS)
 - 6 Social Sciences and Humanities (SH)
- "primary panel" & if applicable: "secondary panel"
- Check
 - panel descriptors / key words
 - funded projects
 - panel members of previous Calls









Panel Chairs and Members

European Research Council
Scientific Council

Council

Panel Chairs of the ERC Peer Review Panels ERC Starting Grant Panel 2011

The list below includes the panel chairs in the third ERC Starting Grants peer review process, identified and invited by the ERC Scientific Council. There are in total 25 panels, divided between the 3 domains as follows: 9 panels in Life Sciences (LS), 10 panels in Physical Science and Engineering, and 6 panels in Social Sciences and Humanities (SH).

Note to applicants:

This information is given for reasons of transparency. Under no circumstances should panel chairs be contacted by applicants, potential applicants or potential host institutions.

Questions can be addressed to:

- ERC Helpdesk http://ec.europa.eu/research/index.cfm?lg=en&pg=enquiries
- ERC National Contact Points http://erc.europa.eu/ncp

LS1 Molecular and Structural Biology and Biochemistry:

LIFE SCIENCES

LS ₂	Genetics, genomics, bioinformatics and systems biology:	Prof. Marja Makarow
LS3	Cellular and Developmental Biology:	Prof. Christer Betsholtz
LS4	Physiology, Pathophysiology and Endocrinology:	Prof. Ole H. Petersen
LS5	Neurosciences and neural disorders:	Prof. Andrea Kleinschmidt
LS6	Immunity and infection:	Prof. Maria Grazia Roncarolo
LS7	Diagnostic tools, therapies and public health:	Prof. Hans Bräuner-Osborne
LS8	Evolutionary, population and environmental biology:	Prof. Lars Chittka
LS9	Applied life sciences and biotechnology:	Prof. Francisco Tomás-Barberán

Prof. Reinhard Jahn

SOCIAL SCIENCES AND HUMANITIES

SH1	Individuals, institutions and markets:	Prof. Jordi Galí
SH ₂	Institutions, values, beliefs and behaviour.	Prof. Ronald Rogowski
SH3	Environment and society:	Prof. Mark Rounsevell
SH4	The human mind and its complexity:	Prof. Luciano Fadiga
SH5	Cultures and cultural production:	Prof. Simon Goldhill
SH6	The study of the human past:	Prof. Jane Burbank

DOMAIN PHYSICAL SCIENCE AND ENGINEERING

00111	THE THORE SOLLIGE THE ENGINEERING	
PE1	Mathematical foundations:	Prof. Janusz Grabowski
PE2	Fundamental constituents of matter:	Prof. Sune Svanberg
PE3	Condensed matter in physics:	Prof. Yvan Bruynseraed
PE4	Physical and Analytical Chemical sciences:	Prof. Philippe Sautet
PE5	Material and synthesis:	Prof. Jeffrey Alan Hubbe
PE6	Computer science and informatics:	Prof. Stefan Jähnichen
PE7	Systems and communication engineering:	Prof. Palle Jeppesen
PE8	Products and process engineering:	Prof. Ulrich Stimming
PE9	Universe sciences:	Prof. Georges Meylan
PE10	Earth system science:	Prof. Daniel Conley

 Names of panel members of previous Calls:

http://www.eubuero.de/erc-dokumente.htm#reviewer

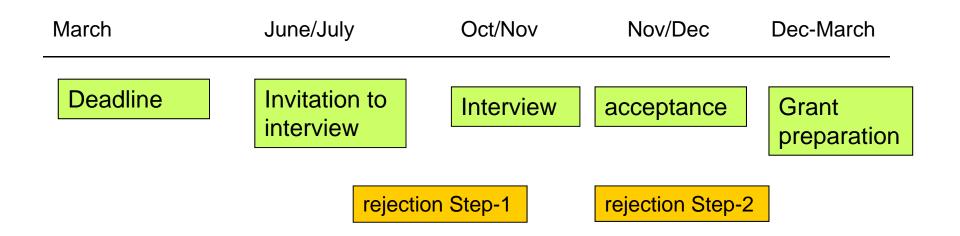
- NB: in 2014 new composition of StG and CoG panels
- Names published after Call evaluation
- Names of Panel Chairs published before Deadline







Indicative Timeline Starting Grants 2014



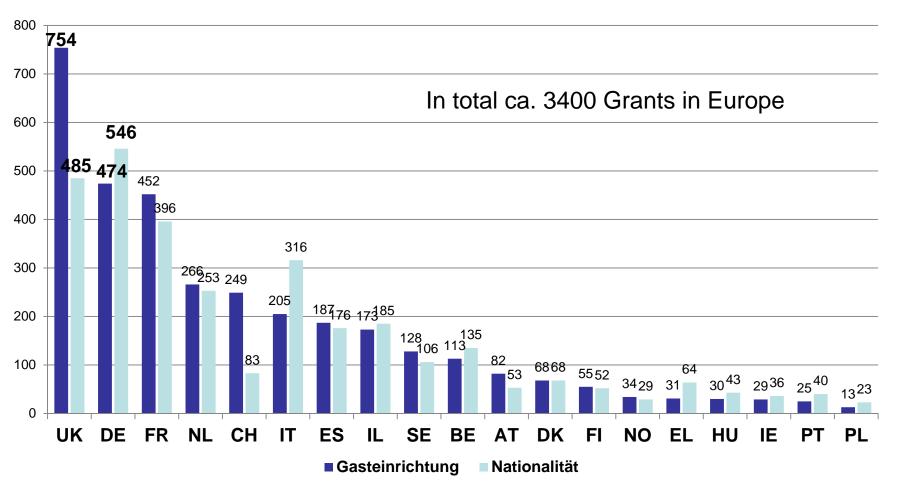
Project start date: latest 6 months after invitation to grant preparation







FP7 ERC StG/AdG-Grants: Host Institution & Nationality



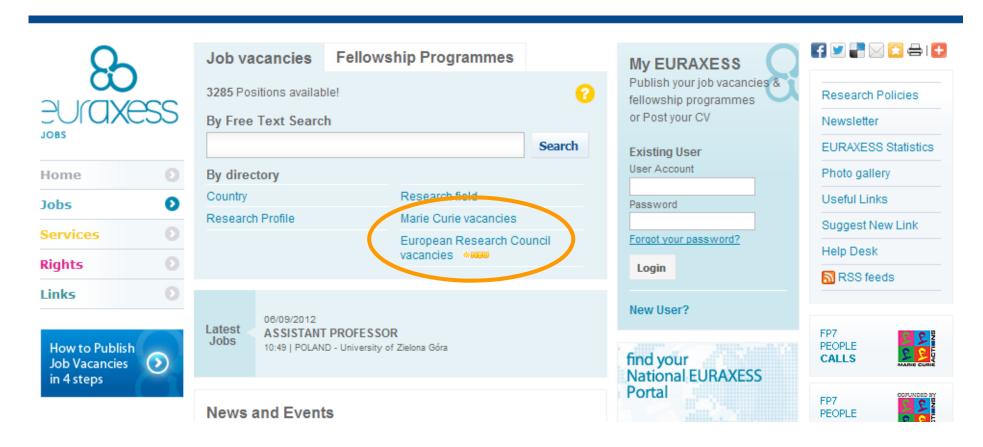
Source: ECORDA database as of June 2013; only signed grant agreements; most successful countries







Job Search / Recruiting Team member









Further Information

Homepage National Contact Point: <u>www.nks-erc.de</u>

English: http://www.erc-germany.de

German: http://www.nks-erc.de

• Newsletter: http://www.eubuero.de/newsletter.htm

• ERC-Homepage http://erc.europa.eu

Horizon 2020: http://www.horizont2020.de









National Contact Point ERC

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Web: www.nks-erc.de







Additional Slides







Proposal Writing - Contents

- State clearly your objectives on page 1
- What is the international state-of-the art in your field? Where are the gaps?
- What will be changed after you successfully completed your project?
 What is your vision?
- Why is your project new and unconventional?
- High-Risk / High-Gain Balance
- Check the evaluation criteria, i.e. with help of colleagues







Nice to have: Readability

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Readability

- Paragraphs
- Concise title, headings, sub-headings
- Bullet points
- Format important statements in bold
- Use tables, graphics, diagrams (readable in black/white)
- Methodology: time chart, responsibility of team members etc.
- short, simple sentences









Abstract

- Groundbreaking Nature of Research
- Frontier Research: new & visionary
- Impact on research field / society
- State of the Art vs Knowledge Gaps
- Risks / Challenges
- Interdisciplinarity (if applicable)

Gaps

Gaps

Successful proposal starts with a successful proposal starts with successful proposal starts with a successful proposal starts wit







B2: The Scientific Proposal (max. 15 pages)

- Respect the given structure:
 - a) State of the art and objectives
 - b) Methodology
 - c) Resources (incl. project costs)
 - d) Ethical and Security Sensitivity Issues (Tabelle)
- Respect formal parameters
 - Times New Roman
 - Size: at least 11
 - Single line-spacing
 - Margins: 2 cm side, 1,5 bottom

Use B1/B2 templates!







a. Extended Synopsis (max. 5 pages)

- Assessed in Step 2 (evaluators have no access to Part B2!)
- Short stand-alone version of your project description
 - Ground-breaking vs. state of the art
 - Arousing curiosity
 - All relevant aspects (incl. feasibility)
 - Including few references to key literature (page limit!)
- Understandable for non-specialists







b. Curriculum Vitae (max. 2 pages)

Standard Academic Record

- Clear distinction (i.e. education, work experience / positions, memberships, supervision / teaching ...)
- Optional: Number of children / marital status / contact details
- Not: hobbies / kindergarten / language courses / partnership details

Funding ID

- Aim: see what you have achieved / prevent double funding / see you have at least 50% time for ERC project
- Distinguish: 'previous funding', 'current funding', 'ongoing applications'
- List project title & topic, duration, budget, role of PI
- Mention significant career breaks & unconventional paths

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Section b : Curriculum Vita (max 2 pages)

Personal Information

Firstname- Lastname	
Gender	
Date and Place of Birth	
Current laboratory address	
Website	

Model CV's for all three **Domains** (PE, LS, SH)

Education and Degrees

Years	Degree	Institution	Field of study
	PhD		
	Master		

Guidance, no obligation!

Research Career

Years	Position	Institution	Field of research
	present		

Output in numbers

- articles in peer-reviewed international journals :
- invited presentations at international conferences :

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Project Title	Funding source	Amount	Period

Supervision

Teaching

Administration and Management

Organisation of International Conferences

Dinstinctions and Awards

Bundesministerium für Bildung und Forschung

Model CV's for all three Domains (PE, LS, SH)

Guidance, no obligation!







c. Early Achievements Track Record (max. 2 pages)

- Highlight best 5 (StG) or best 10 (CoG) publications
- Indicate number of citations (if applicable)
- Distinguish publications with & without PhD supervisor
- Don't forget: conferences, patents, prizes and awards!
- "Examples of leadership in industrial innovation"
- Add: total number of publications and h-index

Cost category			TOTAL EURO (please ensure that these values match the figures you provided in A3 submission form)
		Principal Investigator ¹	-
		Senior staff	
	Personnel	Post docs	
		PhD students	
		Other	
Direct	i. Total Direct	personnel costs (Euro)	0
costs		Equipment	
		Consumables	
	Other direct costs	Travel	
	COSIS	Publications, etc.	
		Other	
ii. Total Ot	ii. Total Other	direct costs (Euro)	0
A: Total Direct costs (i+ii), Euro		0	
B: Indirect costs (up to 25% of total direct costs), Euro 0.00%		0	
C: Subcontracting costs (no overheads), Euro			
Total estimated eligible costs (A+B+C), Euro			0
Requested EU contribution, Euro			



Budget Table







Resources - Justification

- Explain roles and (required) profiles of team members
- Explain your own role and your time commitment
- Explain **need of equipment**, intensity of its planned use
- Explain what resources are already available at your institution
- In case of "additional institutions": explain scientific added value

Non-justified costs can be reduced from your budget by reviewers!







Ethical Issues

- Ethical Issues Table (all applicants)
- B2 Ethical Issues Annex, in case of
 - Research on Human Embryo/ Foetus
 - Research on Humans / Informed Consent
 - Privacy
 - Research on Animals
 - Research Inolving Developing Countries
 - Dual Use (potential military/terrorist application)
 - Environment

http://cordis.europa.eu/fp7/ethics_en.html