The European Research Council: Funding opportunities for Frontier research

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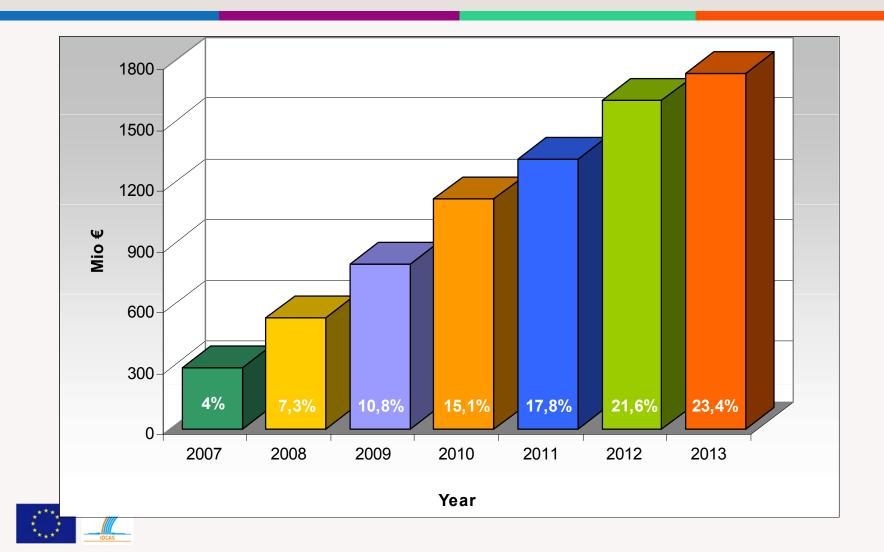
ERC's main features

- First European funding body supporting frontier research through open and direct competition.
- Excellence only selection criterion
- In all fields of research
- Bottom-up approach (no predetermined themes)
- Support to individual scientists (no networks)
- International peer-review



ERC Budget 2007 – 2013 : € 7.51 bn

Annual budget evolution (prospective schedule)



ERC Funding schemes

Two complementary funding schemes

ERC Starting Grant (StG):

• Researchers starting or consolidating their own independent research team (up to 12 years after phd)

• Transition from working under a supervisor to an independent research leader €1.5M over 5 years (up to 2 certain circumstances)

ERC Advanced Grant (AdG):

- Established independent research leaders
- Excellent track record over the last 10 years

•€2.5M over 5 years (up to 3.5M)



ERC Funding schemes

Who can apply? – General requirements

- Researcher
 - Any nationality, age or current place of work
- In conjunction with a Host Institution
 - Based in EU or associated countries
- Frontier Research project
 - All fields of research are eligible (investigatordriven, bottom-up)
 - All domains: Physical Sciences & Engineering, Life Sciences, and Social Sciences & Humanities Associated States
- Individual research team
 - Researcher has freedom to choose national or transnational team, if scientific added value proven



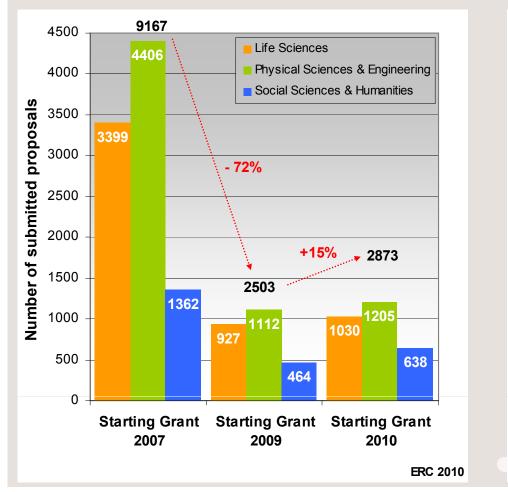
ERC Starting & Advanced grant calls 2007 - 2010 Submitted proposals by domain

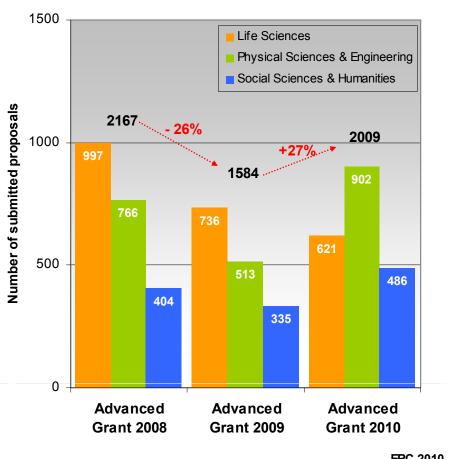
European Research Council



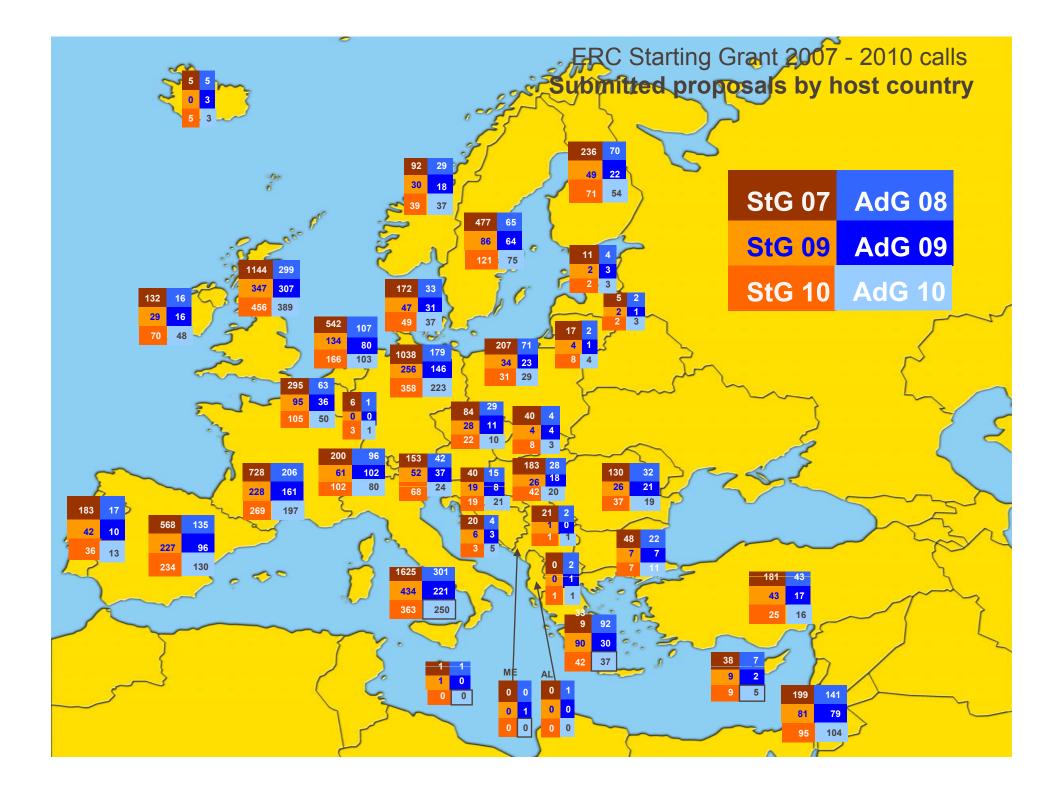
Starting Grant Calls

Advanced Grant Calls



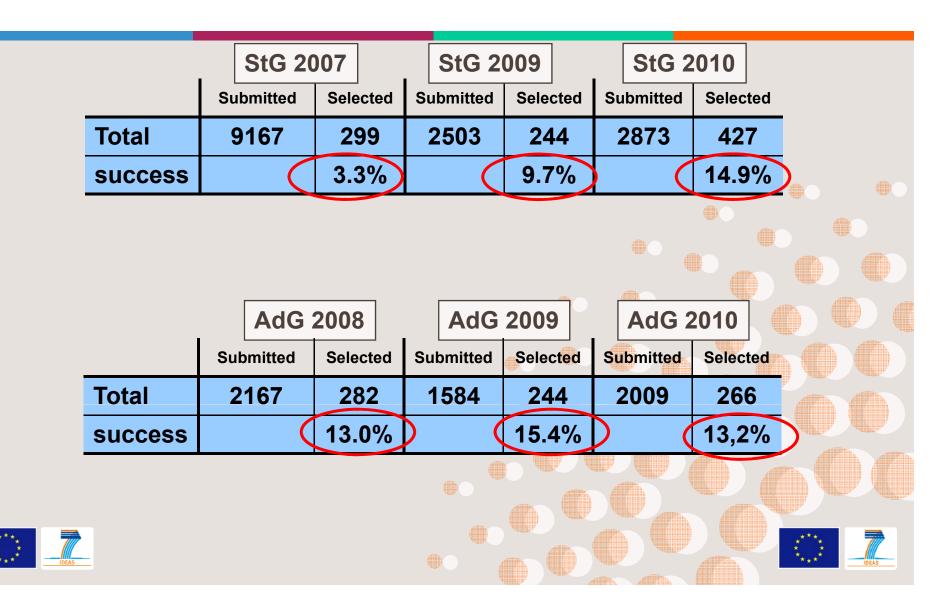


ERC 2010





Success rates





Advanced Grant: Application & Evaluation



Panel structure



- 3 domains 25 panels
 - → 10 PE panels (Physical Sciences and Engineering)
 - → 9 LS Panels (Life Sciences)
 - 6 SH Panels (Social Sciences and Humanities)
- Some changes in panel descriptors for 2011 calls
- Each panel consisting of 10-15 panel members



Timetable 2010-2011



• Advanced Grant 2011 deadlines:

- PE domain: 09/02/2011
- → LS domain: 10/03/2011
- → SH domain: 06/04/2011
- Next starting grant call will be published in summer 2011, with deadlines in the autumn 2011



Call budget for 2011 calls



- Total budget for Starting Grant and Advanced Grant:
 €661.4 Million each, i.e. a total of €1.323 Billion
- Indicative call budget
 - Physical Sciences 40%
 - Social Sciences 15%
 - Life Sciences 35%
 - + 10% for Interdisciplinary Cross Panel / Cross domain
 - -)
- Within each domain, budget is broken down according to total funding requested per panel (equal chance in each panel)



Submission is to Panels



- Applicant submits to a *Targeted Panel* (of PI choice)
 - Can flag one "Alternative Review Panel"
- Applicant chooses his/her panel, that panel is "responsible" and takes ownership for the evaluation of that proposals
- Only switch proposals between panels in case of clear mistake on part of applicant
- Switching proposals between domains (deadlines) not possible
- But: In case cross-panel or cross-domain proposals, evaluation by members of other panels possible



Evaluation Criteria



Excellence as sole criterion, to apply to:

1. Principal Investigator

- Intellectual capacity and creativity: Track-record, capacity to go significantly beyond the state of the art. For StG: To what extent would ERC grant make a significant contribution to the establishment or consolidation of independence?
- Commitment: Willing to devote a significant part of PI's working time
- **2.** Quality of the research project
 - Ground-breaking nature of the research: Important challenge? Substantially beyond the current state of art?
 - Potential impact: Possibility of a major break-through?
 - Methodology: Feasibility, high-gain/high-risk balance



ERC Advanced Grant (AdG)



Researcher's profile

- Active researchers (any age, nationality, and current place of work)
- Track-record of significant research achievements (last 10 years, extension in case of career breaks possible)
- Exceptional leaders in terms of the originality and significance of their research contribution
- Freedom to choose team members (national or trans-national character, according to scientific added value)
- → In case of combination of knowledge and skills from different fields (interdisciplinary proposals) → a team member can be identified as Co-Investigator



Submission of proposals



- Single submission
 - → "1 stage, 2 step" evaluation
- Electronic submission via EPSS only
- Deadlines strictly enforced
- Proposals have two parts:
 - Part A: Administrative forms
 - → Part B: Scientific proposal itself



Proposal structure: Part A



- Part A: "Administrative forms" containing
 - → A1 Information on PI
 - A2 Information on Host Institution
 - → A3 Budget breakdown by year and partner
 - Not detailled



Proposal Structure: Part B





- Section 1 = "The PI" [30% of time on project, 50% in Europe]
 - Scientific Leadership profile (1 page)
 - CV (including "funding ID") (2 page)
 - 10-year track record (or "early achievements" for StG) (2 page)
 - Extended synopsis (5 page)
- Section 2 = Full Scientific proposal (15 page)
- Ethical Review information (where appropriate)
- Separate additional document:
 - Host Institution Support Letter (compulsory StG + AdG)
 - → Copy of Ph.D. (compulsory StG)
 - Documents to prove extension to 10 year eligibility window (StG)



Two step evaluation



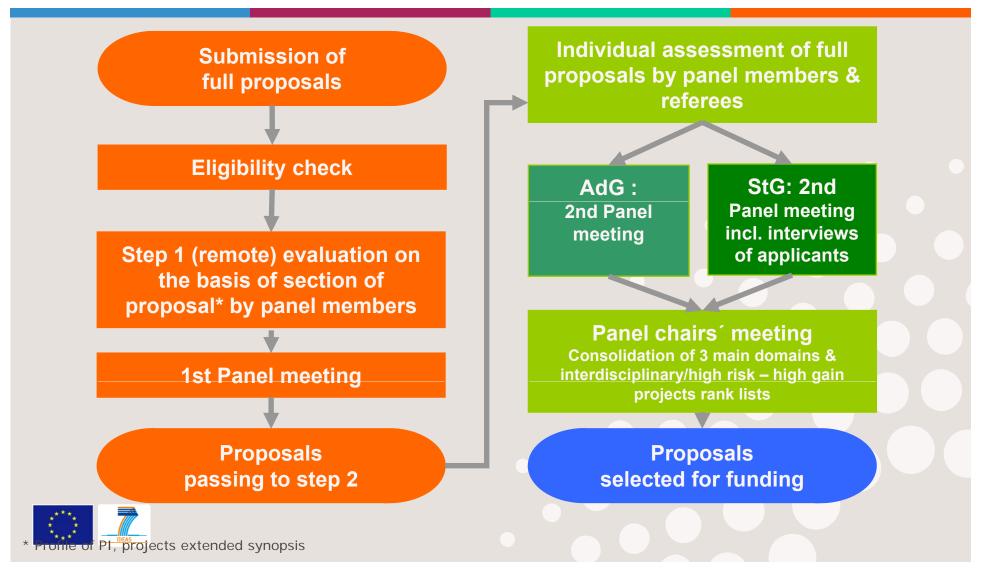
• Step 1:

- Section 1 of Part B evaluated against Criterion 1 (PI) and 2 (Research Project)
- Proposal needs to pass threshold for <u>both criteria</u> to pass to second step
- Evaluated by Panel Members
- Step 2:
 - Sections B1 + B2 evaluated
 - Evaluated by Panel Members + Remote Referees



ERC Grants: Submission, evaluation and selection





Interdisciplinary Proposals



- Primary approach for Interdisciplinary proposals: "mainstreaming"
- Proposal submitted to a <u>target panel</u> primarily responsible for its evaluation
- Both Step 1 and Step 2:
 - Assigned for reviews from PMs outside primary panel, if necessary
- Step 2:
 - Remote reviewers: any reviewer in the world (hence any domain)
- Interdisciplinary Research domain (cross-domain & crosspanel) → indicative budget of 10% total budget
- Decision taken by combined panel of all Panel Chairs



WP 2011 main changes

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- Cross panel proposals (10% of budget)
- Further emphasis on supporting high-risk/ high-gain proposals
- The removal of the research environment criterion
- Simplified evaluation criteria overall
- Progressive removal of resubmission restrictions (StG and AdG now aligned)
- Extension of the StG to 2-12 years to support mid-career researchers (2-7 for "starters", 7-12 for "consolidators")
- Overall simplification of the text



Key Documents & Information Sources



- → ERC 2009 Work Programme
- Call Text
- Rules for Submission
- Guide for Applicants

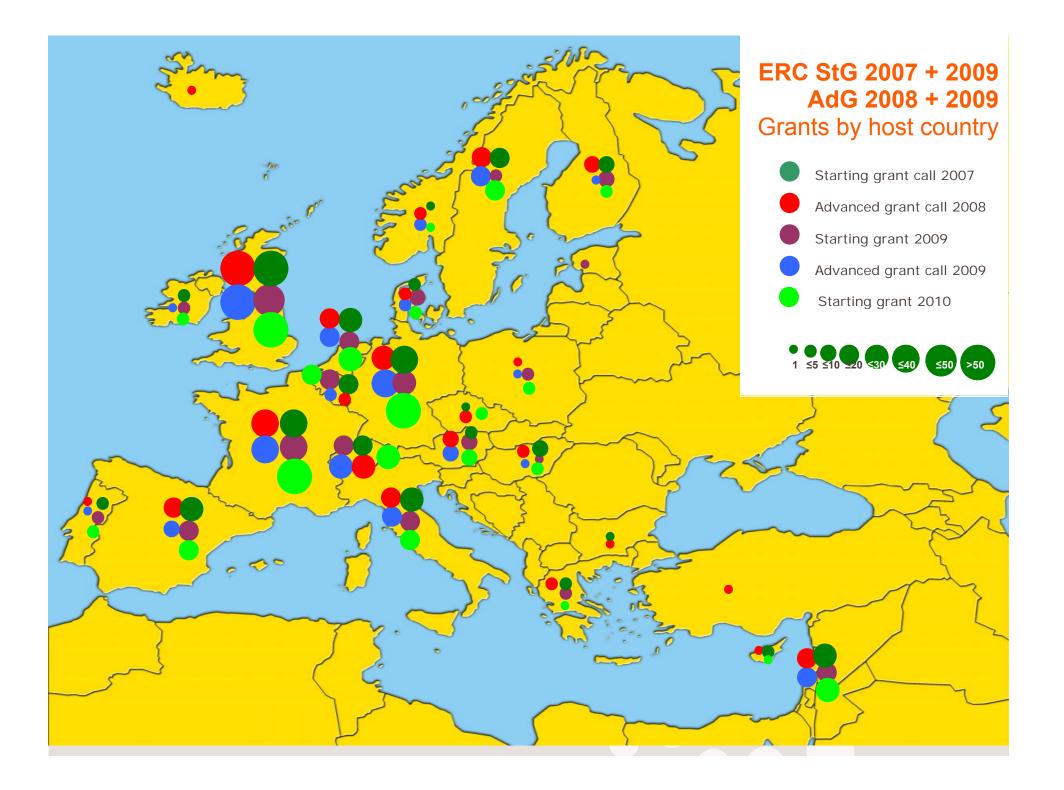
All of the above documents can be downloaded at <u>http://erc.europa.eu</u>



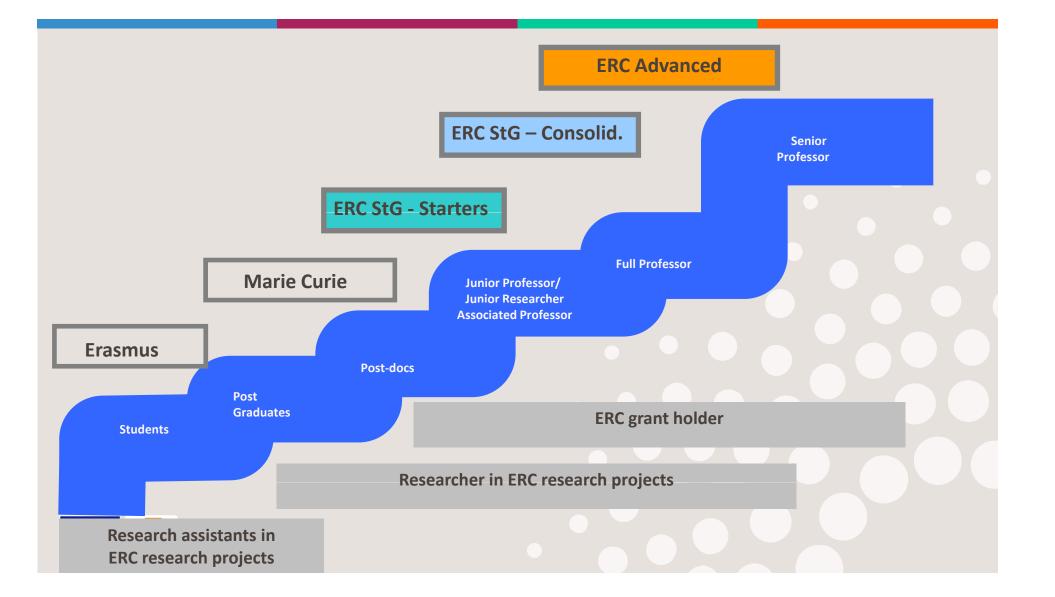


Thank you for your attention!





Researchers Career development



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ERC Starting Grant (StG)



Researcher's profile

- Potential for research independence: at least one publication without the participation of the PhD supervisor
- Promising track-record of early achievements (including significant publications as main author)
- First PhD awarded between 2 and 12 years prior to the call publication date – extensions allowed for eligible career breaks (max 14,5 years after PhD)
- Specific career stage: Starters (2 to 7 years after PhD award) and Consolidators (7 to 12 years after PhD award), two streams to accommodate different career stages.



/ariable R&D intensity (as % of GDP)

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