

The “Ideas” Programme

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Overview

1. Background & Evolution
2. Aim & Strategy
3. Funding Schemes & Activities
4. Organisation & Management
5. In brief: 1st call & applicant services

Basic / Frontier research in the Europe



- **National activities:**
 - Research councils (DFG-1920, CNR-1923, CNRS-1939, SNF-1952), academies, etc.
- **Intergovernmental activities:**
 - CERN (1953), ESO (1962), ESA (1962/1975), EMBO (1963), ILL (1967), COST (1971), ESF (1974), EMBL (1978), Eureka (1985), ITER (1988), ESRF (1988), INTAS (1993)
- **EU activities (“supranational”):**
 - ECSC – Euratom – EC (1957), JRC (1959), JET (1973), FP1 (1984) ... FP7 (2006-2013)
 - European Research Area – ERA (2000)
 - **FP7 (2006-2013): Ideas/ERC, Marie Curie fellowships, research infrastructures, thematic priority areas**



ERC, “Ideas” and FP7

- A new “institution”
- Which is also part of the “family” of FP7:
 - Co-operation
 - **Ideas**
 - People
 - Capacities
- Complementary to other FP7 support to **targeted research** (bottom-up vs. targeted research)





FP7 Ideas Programme

- **Creates ERC**
- **Provides funding**
 - Budget (2007-2013) : € 7.51 bn (around 15% of FP7 budget)
 - Average budget: € ~1 bn per year
- **Sets overall objectives for research and operating principles**



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Strategic Aims Overview



Boost European excellence in frontier research

- by investing in the best researchers and ideas
- through competition at European level
- on the basis of excellence as the sole criterion
- raising incentives towards quality and aspirations of individual researchers
- providing benchmarks and leverage towards broader (structural) improvements in European research



Strategy & Activities

ERC Scientific Council

- **Retain – Repatriate – Recruit**
- Favour “**brain gain**” and “**reverse brain drain**”
 - increase **competition, recognition and international visibility** for excellent individual scientists and scholars in Europe
 - **ERC Advanced Grant**: attract & reward established independent research leaders
- **Keep (young) researchers in Europe**
 - improve **career opportunities and independence** - especially for young researchers
 - **ERC Starting Grant**: attract & retain the next generation of independent research leaders

ERC budget 2007-2013

- **Total (FP7 Ideas budget): € 7.51 bn**
 - ≈1/3 Starting Grants, ≈ 2/3 Advanced Grants
 - Less than 5% for operational ERC management
- **1st Call**
 - StG only, Jan 2007, € 300 Mio.
 - Budget allocated to three areas (for operational reasons)
- **2nd Call**
 - AdG only, August 2007, € 550 Mio.
- **3rd call onwards:**
 - StG + AdG ≈ € 1.0 bn per year

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ERC Grants

Strategic principles

- **All fields of science and scholarship are eligible**
 - ☞ investigator-driven, bottom-up
- **Excellence is the only valid criterion**
 - ☞ individual team + research project
- **Investment in research talent**
 - ☞ Attractive, flexible grants, up to five years
 - ☞ under control of the lead researcher (PI)
- **Independent individual teams in Europe**
 - ☞ nationality of researchers is not relevant
 - ☞ host organisation to be located in EU or AS



ERC Grants

Operational Principles

- **Application in response to calls for proposals**
- **Two-step application Procedure**
due to large number of expected applications
- **ERC peer review evaluation process based panels**
panels select proposals to be funded and applicable budgets

ERC Grants

Who can apply ?

- Individual Research Teams:
 - headed by a single **“Principal Investigator”** (team leader)
 - of any nationality
 - if necessary, including additional team members.
- The “Principal Investigator” has the freedom to choose the **research topic** and the power to assemble his/her **research team** meeting the needs of the project.
- Teams can be of **national or trans-national** character.

ERC Grant Schemes

Two grant schemes are available:

- 1. ERC Starting Independent Researcher Grant scheme (ERC Starting Grant)**
 - 1st call for proposals published, deadline 25 April 2007
- 2. ERC Advanced Investigator Researcher Grant scheme (ERC Advanced Grant)**
 - 1st call for proposals published later in 2007



ERC Advanced Grant

(ERC Advanced Investigator Researcher Grant)

- Designed to support excellent investigator-initiated research projects by **established independent research leaders**
- Complement the ERC Starting Grant scheme by targeting researchers who have already established their independence as team leaders
- **~100'000-500'000 Euro per grant per year**
- **for up to 5 years, i.e. ~500'000-2'500'000 Euro per grant**
- ~ € 600M per call (~ $\frac{2}{3}$ of ERC annual budget, annual calls)
- ~ 300 Advanced Grants per year





ERC Starting Grant

(ERC Starting Independent Researcher Grant)

- support researchers at the start of their independent research career and **establishing or consolidating their own independent research team** (or research programme)
- provide a structure for transition from working under a supervisor to an independent research leader
- **~100'000 – 400'000 Euro per grant per year**
- **for up to 5 years, i.e. ~500'000-2'000'000 Euro per Grant**
- ~ €300M per call (~ 1/3 of ERC annual budget, annual calls)
- ~200 Starting Grants per year, ~1400 Starting Grants over 7 years of FP7 (2007-2013)



ERC Starting Grant Requirements

→ PI

- 2-9 years since completion of PhD: Special circumstances will be taken into account, such as maternity/paternity leave, military/civil service (+3 years max.)

→ PI and team members

- Any nationality
- One ERC Grant per investigator only may be active at any one time

→ Hosting institution

- Located in a EU member state or associated country
- Intra-European grant portability allowed

ERC Starting Grant Submission of Proposals



- **Two-step application procedure** (risk of oversubscription)
 - 1st stage - Outline Proposal: max 8 Pages
 - 2nd stage – Full Proposal: max 16 Pages
- **Electronic Submission** only (via EPSS)
- **Pre-registration** (via EPSS)
 - Providing ERC with indication on number & area of proposals
- **Proposal Components**
 - a) CV + self-evaluation + funding ID (3 / 4 pages)
 - b) Description of research project (4 / 10 pages)
 - c) Description of scientific environment + resources (1 / 2 pages)





ERC Starting Grant

20 peer review panels in 3 domains

Area 1: Physical Sciences, Engineering Sciences, Universe and Earth Sciences (8 panels)

Area 2: Biological and Life Sciences (7 panels)

Area 3: Social Sciences and Humanities (5 panels)

- Each panel consists of one Panel Chair and 10-12 panel members
- Panel Chair oversees evaluation process for the proposals assigned to his/her panel in collaboration with the ERC staff
- The Panel Chair gives high level stamp of credibility and visibility to the whole evaluation process



Evaluation Criteria

Scientific Excellence is the sole Criterion

- 1. Potential of Principal Investigator**
- 2. Quality of research project**
- 3. Research Environment and Resources**
 - Referees and panels evaluate and score criteria under Heading 1 and Heading 2 numerically which will result in the ranking of the projects:
 - 0-5 points, in increments of 0.5
 - Threshold 8 / 10
 - Criteria under Heading 3 will be considered as "pass/fail" and commented but not scored

ERC Starting Grant

Budget Allocation



- ERC covers **all fields of science, engineering and scholarship**
- For operational reasons the ScC agreed on **3 main research domains**:
 - **Physical Sciences & Engineering**
 - **Biological & Life Sciences**
 - **Social Sciences and Humanities**
- The **first call budget for ERC Starting Grants** has been **pre-allocated to these areas** as follows:
 - **45% - 40% - 15%**



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ERC Actors

The Scientific Council

Independent scientific governance

The Agency

Practical implementation and management of operations

The European Union

Providing the financial means



The Scientific Council

Members & Role

- **22 most respected researchers** reflecting the full scope of European research and scholarship
 - proposed by an independent identification committee
 - appointed by the Commission (for 4 years, renewable once)
- **Role:**
 - **Establishes overall scientific strategy**
establishes annual work programmes (incl. calls for proposals, evaluation criteria); defines peer review methodology; ensures selection and accreditation of experts
 - **Controls quality of operations and management**
 - **Ensures communication with the scientific community**



The Scientific Council Organisation

- 22 Members of the Scientific Council elected the **Chair** and **Vice-Chairs**
 - One Chair: **Prof. Fotis Kafatos**
 - Two Vice-Chairs: **Prof. Helga Nowotny** and **Dr Daniel Estève**
- + Regular Plenary Meetings (every 1-2 months)
 - + Secretariat of the ScC (Directorate S)



The ERC Secretary-General



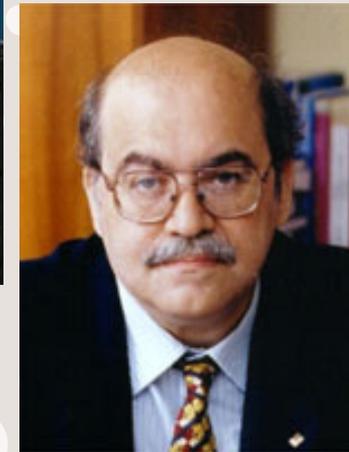
The 22 Members of the Scientific Council appointed a Sec. Gen.

→ **Prof. Ernst-Ludwig Winnacker**

(Jan 2007 – June 2009)

→ **Prof. Andreu Mas-Colell**

(July 2009 – Dec 2011)



Role

- to ensure the integrated operation of ERC
- to monitor the implementation of the ScC's strategy and position as executed by the dedicated implementation structure
- to participate in the ERC board



The Agency

- **Executes annual work programme**
as established by the Scientific Council
- **Implements calls for proposals**
and provides information and support to applicants
- **Organises peer review evaluation**
- **Establishes and manages grant agreements**
- **Administers scientific and financial aspects**
and follow-up of grant agreements



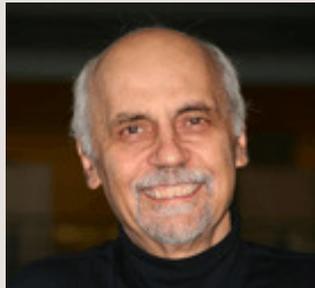
The European Union (represented by the European Commission)

- **Provides financing**
through the EU framework programmes
- **Guarantees autonomy**
of the ERC
- **Assures the integrity and accountability**
of the ERC
- **Adopts annual work programmes**
as established by the Scientific Council



The ERC Board

Prof. Fotis Kafatos
President of the ERC



Jack Metthey
Director of ERC DIS
(EC RTD Directorate S)



Prof. Helga Nowotny
Dr Daniel Esteve
Vice-Presidents of the ERC



Prof. Ernst-Ludwig Winnacker
ERC Secretary-General



The first home for the ERC



- **Madou Plaza – Tour Madou**
- **Brussels**
- 2 dedicated floors (5th/6th)
- 140 work places
- 5 meeting rooms
- 1 auditorium (192 seats)

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1st Call in Brief

- **ERC Starting Grants only**
- **What? Any field of science, engineering and scholarship**
- **Who? Principal Investigator (Individual Team) + Hosting Organisation**
- **By when ? Deadline Stage 1 submission: April 25, 2007**
- **How? Consult « ERC Guide for Applicants »**
- **Note:**
 - ➔ Submission via EPSS only (no paper submission)
 - ➔ Respect page limits and format
 - ➔ Indicate keywords describing the subject area (panel assignment)
 - ➔ Stage 2 submission: on invitation only if stage 1 proposal evaluated positively



Documentation

- **Specific text of “Call for Proposal”**
- **ERC Work Programme 2007**
- **ERC Guide for Applicants**
- **ERC Grant agreement**

Other:

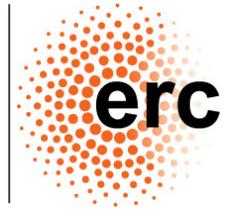
- ERC Guide for Grant Holders
- ERC Guide for Peer Reviewers
- ERC Rules on submission, evaluation, selection and award procedures

Applicants Services

- **ERC National Contact Points**
inform, raise awareness and provide advice on ERC funding opportunities, application, follow-up
- **ERC helpdesk**
support to ERC NCPs
- **EPSS helpdesk**
technical support on electronic proposal submission
- **ERC website: <http://erc.europa.eu>**

→ News Alert, Publicity Material





Thank you !

