THE EUROPEAN RESEARCH COUNCIL



Max Weber Programme-Academic Careers Observatory, EUI

Research Funding Opportunities, 28 January 2020

What is ERC?













The ERC supports excellence in frontier research through a bottom-up, individual-based, pan-European competition

Budget: € 13 billion (2014-2020) - 1.9 billion €/year € 7.5 billion (2007-2013) - 1.1 billion €/year

egislation.

- Scientific governance: independent Scientific Council with 22 members including the ERC President; full authority over funding strategy
- ➤ Support by the ERC Executive Agency (autonomous)
- > Excellence as the only criterion

Stratedy

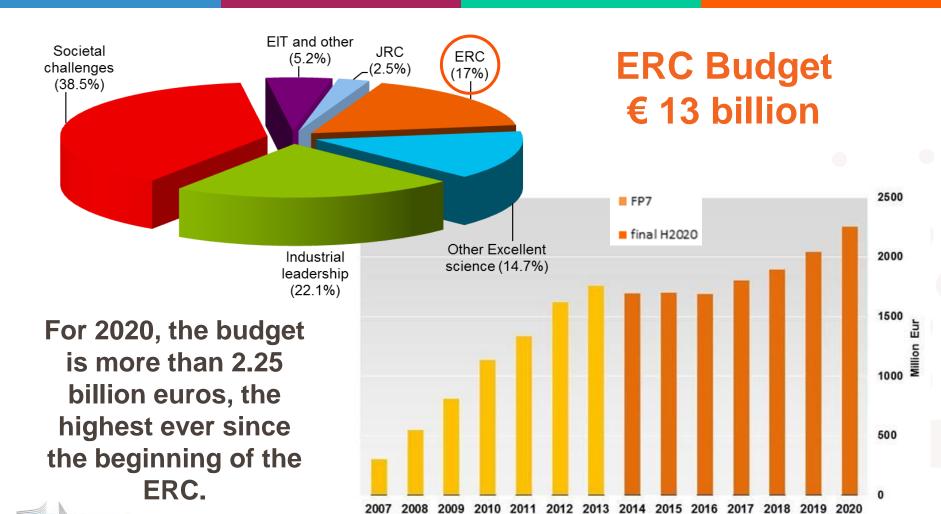
- Support for the individual scientist no networks!
- ➤ Global peer-review
- No predetermined subjects (bottom-up)
- Support of frontier research in all fields of science and humanities

ERC H2020 Budget

European



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ERC Basics



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European Research Council

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ERC offers independence, recognition & visibility

- to work on a research topic of own choice, with a team of own choice
- to gain true financial autonomy for 5 years
- to negotiate with the host institution the best conditions of work
- to attract top team members (EU and non-EU) and collaborators
- to move with the grant to any place in Europe if necessary (portability of grants)
- to attract additional funding and gain recognition; ERC is a quality label



Funding Structure

ERC Grant schemes



Starting (StG)
2-7 years after PhD

up to € 1.5m (+1m) for up to 5 years

Consolidator (CoG) 7-12 years after PhD

up to € 2m (+1m) for up to 5 years

Advanced (AdG) significant research achievements (last 10y)

up to € 2.5m (+1m) for up to 5 years

Proof-of-Concept

to bridge the gap between research & the earliest stage of marketable innovation

Lump sum €150,000 <u>for ERC grant</u> holders

Synergy

to address ambitious research problems jointly, enabling transformative research 2 – 4 Principal Investigators up to € 10m (+4m) for up to 6 years

NEW from 2019 - 1 PI can be based outside EU/AC



Reasons for Additional budget



"Additional funding up to the amounts set out in the table below can be requested in the proposal to cover the following eligible costs when these are necessary to carry out the proposed work:

- (a) "start-up" costs for Principal Investigators moving to the EU or an Associated Country from elsewhere as a consequence of receiving the ERC grant and/or
- (b) the purchase of major equipment and/or
- (c) access to large facilities and/or
- (d) other major experimental and field work costs, excluding personnel costs." (WP2020, page 22)



Evaluation Panel Structure (WP2020)

Covering all areas of science – descriptors are not priorities Each panel: Panel Chair and 12-16 panel members



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Life Sciences

- LS1 Molecular Biology, Biochemistry,
 Structural Biology and Molecular Biophysics
- LS2 Genetics, 'Omics', Bioinformatics and Systems Biology
- LS3 Cellular and Developmental Biology
- LS4 Physiology, Pathophysiology and Endocrinology
- LS5 Neurosciences and Neural Disorders
- LS6 Immunity and Infection
- LS7 Applied Medical Technologies,
 Diagnostics, Therapies and Public Health
- LS8 Ecology, Evolution and Environmental Biology
- LS9 Applied Life Sciences, Biotechnology and Molecular and Biosystems Engineering

WP 2021: Contours of panels redefined, descriptors enriched (especially LS), two new panels (PE11, SH7)

Physical Sciences & Engineering

- PE1 Mathematics
- PE2 Fundamental Constituents of Matter
- PE3 Condensed Matter Physics
- PE4 Physical and Analytical Chemical Sciences
- PE5 Synthetic Chemistry and Materials
- PE6 Computer Science and Informatics
- PE7 Systems and Communication Engineering
- PE8 Products and Process Engineering
- PE9 Universe Sciences
- PE10 Earth System Science

Social Sciences and Humanities

- SH1 Individuals, Markets and Organisations
- SH2 Institutions, Values, Environment and Space
- SH3 The Social World, Diversity, Population
- SH4 The Human Mind and Its Complexity
- SH5 Cultures and Cultural Production
- SH6 The Study of the Human Past



What is the ERC looking for?



Frontier of science, scholarship and engineering, i.e.

✓ Multi- or interdisciplinary proposals which crossboundaries between different fields of research,



or

✓ Pioneering proposals addressing new and emerging fields of research,

or

✓ Proposals introducing unconventional, innovative approaches and scientific inventions.



Evaluation of proposals

Excellence is the sole evaluation criterion



Excellence of the Research Proposal

- Ground breaking nature
- Ambition
- Feasibility
- ✓ Synergy Grants: goes beyond what PIs could do alone? Combination of scientific elements crucial to address scope and complexity of problem?

Excellence of the Principal Investigator

- Intellectual capacity
- Creativity
- Synergy Grants: Group brings together necessary elements?



Evaluation process

(StG, CoG, AdG)



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STEP 2 STEP 1 Remote assessment by Panel members and Remote assessment by Panel members and Remote Reviewers (specialists) of full Cross Panel Reviewers of ONLY section 1 proposals (Part B1+B2) Synopsis and CV (Part B1) **Panel meeting** (with interview for StG + CoG **Panel meeting** foreseen also for AdG as of WP 2021 **Proposals retained** Ranked list of for step 2 proposals Feedback to

applicants

Preparing your proposal: Part B1 – 5 pages + CV and track record



- Project: innovative? new aspects/solutions/theories?
- Current state of play? Know your competitors.
- Beyond the state of the art VS incremental?
- Highlight the high-risk & high-gain character!
- Goals realistic? Risk mitigation?
- Concise and clear: also for generalists!
- Coherence of proposed project?
- Feasibility (scientific approach)



Preparing your proposal: Part B2 15 pages + CV and track record



- Do not repeat the synopsis
- Extensive methodology and work plan
- Go into more detail with the state of the art
- Provide strategies to mitigate risks
- Explain involvement of team members
- Justify requested resources
- Ask funding for Open Access (mandatory)



Preparing your proposal: Choosing your panel



Descriptors are not exhaustive, not a classification

Any topic/field is equally welcome, whether mentioned in panel structure or not

Descriptors and free keywords used by panel chair to assign reviewers – choose carefully

If crosspanel proposal: reviewers from both panels used. Explain why proposal is crosspanel (part B1)



In a nutshell (1/2)



- Be ambitious and "daring", think big; panels are instructed to seek out high-risk/high gain research
- Grab interest and attention of reviewers
- Remember: Part B1 seen by "generalists" (panel members)
- If you make it to Step 2, reviewers (incl. "specialists" external) see both B1 and B2 - do not repeat B1 in B2
- Do not include unnecessary partners and collaborators; it is not supposed to be a "consortium"
- Get agreement from collaborators to be named in proposal



In a nutshell (2/2)



- For interviews:
 - Get panel members interested in you and what you are doing
 - Practice thoroughly; typically a 5-10 minute presentation + 20-25 minutes of questions
 - Panels want to see that these are your ideas, not those of your supervisor
 - It is normal to be nervous...



Contrary to what you may think.....



- ✓ ERC funds "frontier research", including applied research.
- ✓ The budget is distributed among the scientific panels as a function of demand.
- ✓ The panel descriptors do not represent ERC scientific priorities.
- ✓ The success rate is virtually flat across the eligibility window (StG, CoG).
- ✓ Publication record is not decisive in selection decisions.
- ✓ The Host Institution is not an evaluation criterion.





Key points...

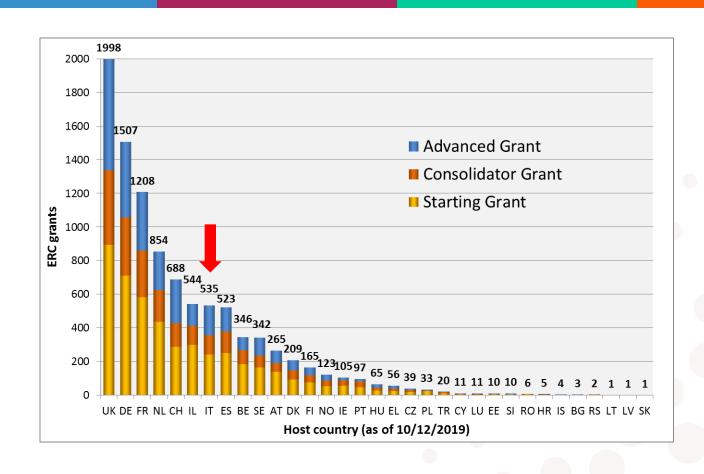


- Proposals shorter than five years/below max. budget are equally welcome. The project needs determine the budget.
- Quality/potential of applicant is evaluated in view of concrete career stage and local conditions (access to facilities etc.).
- Already having an ERC grant does not guarantee obtaining another one; each proposal is evaluated on its own merit.
- Resubmissions have a significantly higher success rate.
 Feedback from panels is valuable to advance own research
- Look at funded projects in your area (search tool on ERC website), testimonials, tutorials, previous panel composition



ERC Grants in ItalyBy funding scheme

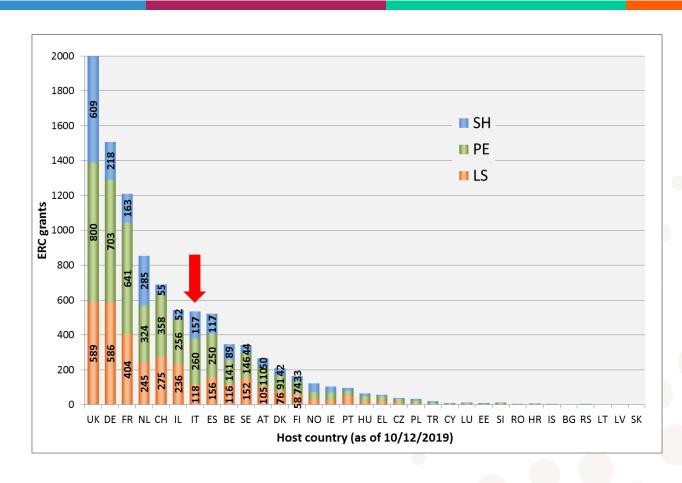






ERC Grants in Italy By scientific area



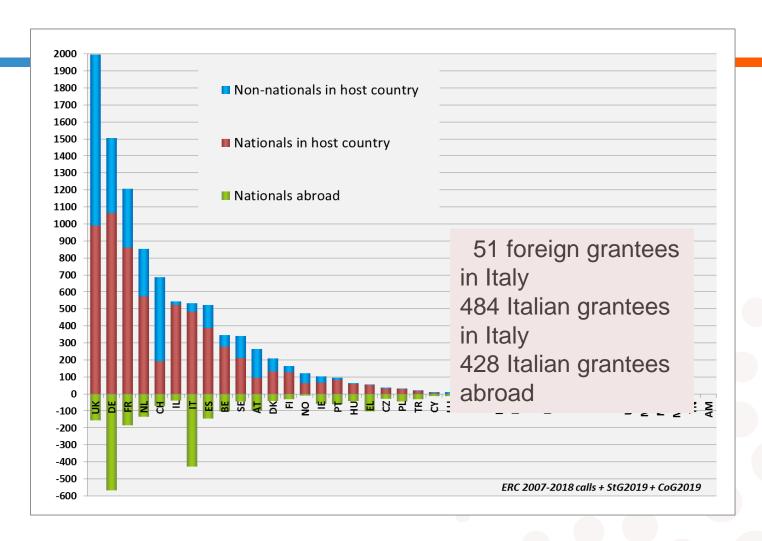




Grantees at Home and Abroad



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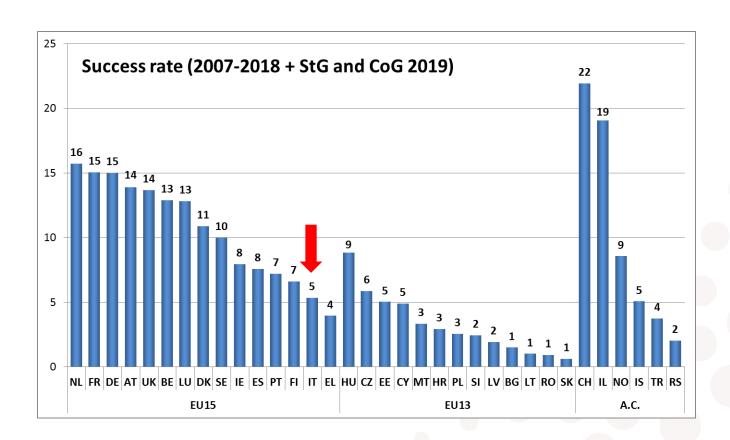






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Success rate in ERC calls

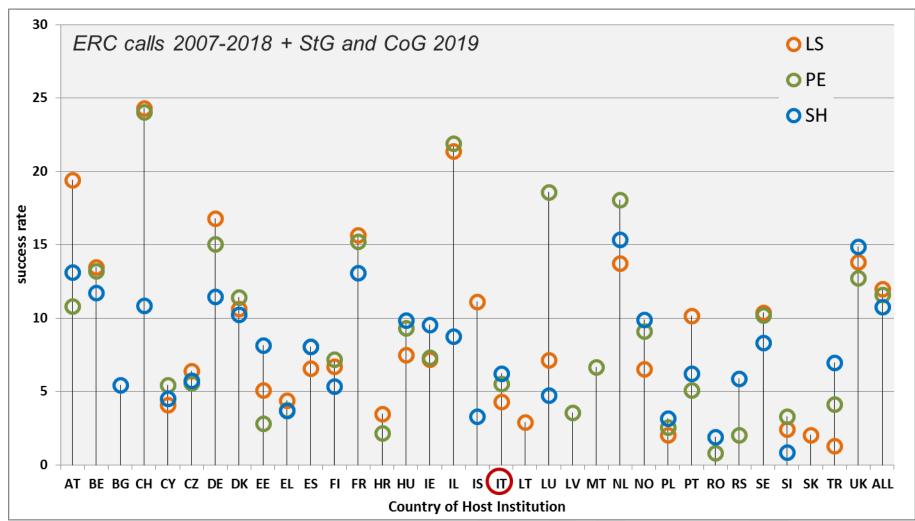




Success Rates by Domain



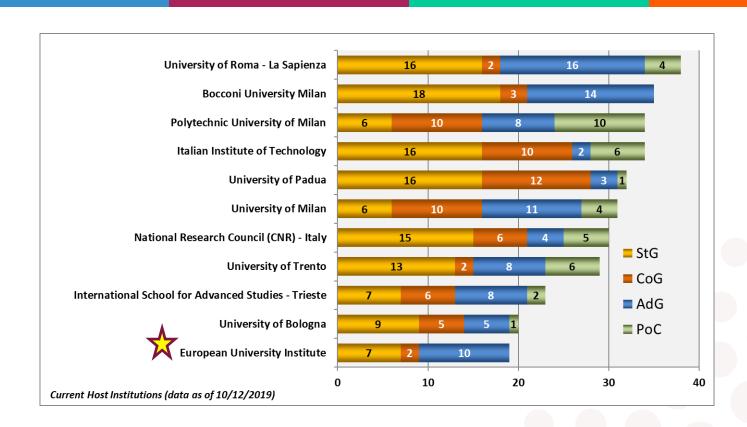
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Top Host Institutions in Italy





What is an ERC PoC?

- Support for initial steps to turn research outputs into a commercial or socially valuable proposition
- ➤ A 150.000€ /18 months grant with the objective to verify the innovation potential of an idea
- Only ERC grantees are eligible to apply

Evaluation PoC criteria

1. Excellence in innovation potential

 Analysis whether expected outcomes are innovative or distinctive as compared to existing solutions

2. Impact

- Ability to generate benefits to economy, society, culture, public policy, services

3. Quality & efficiency of implementation

- Sound project management plan; demonstrate qualification of persons; appropriate resources





Call dates – Work Programme 2020

	Starting Grant	Consolidator Grant	Advanced Grant	Synergy Grant	Proof of Concept Grant
Call identifier	ERC-2020-StG	ERC-2020-CoG	ERC-2020-AdG	ERC-2020-SyG	ERC-2020-PoC
Call Opens	17/07/2019	24/10/2019	14/05/2020	18/07/2019	15/10/2019
Call closes (cut-off dates for PoC)	16/10/2019	04/02/2020	26/08/2020	05/11/2019	21/01/2020 23/04/2020 17/09/2020



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Thank you!

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