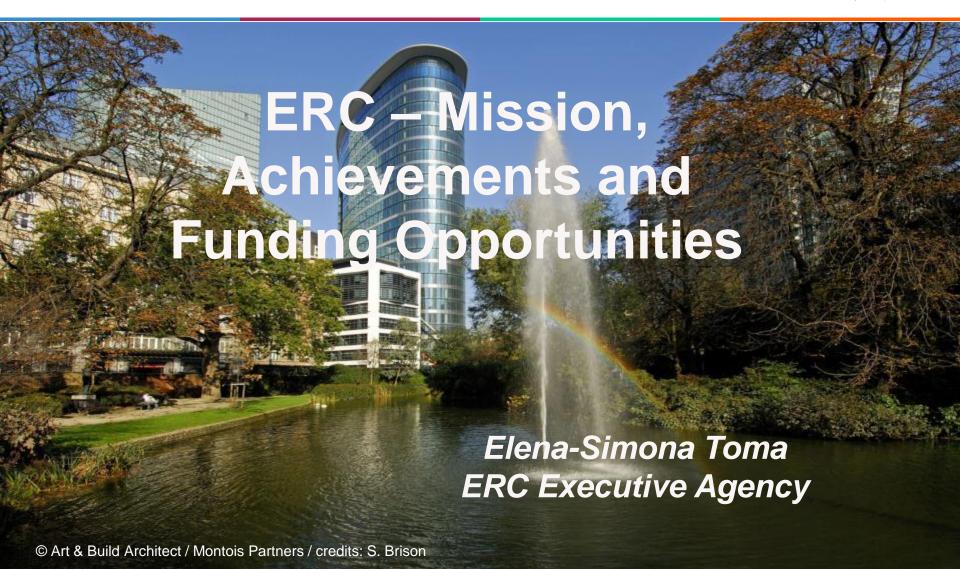
The European Research Council



Established by the European Commission



ERC in Horizon Europe



Established by the European Commission







Widening participation and strengthening the European Research Area

Joint Research Centre

Widening Participation and Spreading Excellence

Reforming and Enhancing the European R&I system



What is ERC?













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

Budget: € 16 billion (2021-2027) – 2.3 billion €/year € 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

Scientific Governance by the ERC Scientific Council



- Prof. Geneviève ALMOUZNI (Biology)
- Prof. Paola BOVOLENTA (Neurobiology)
- Prof. Margaret BUCKINGHAM (Biology)
- Prof. Eveline CRONE (Psychology), ERC Vice-President
- Prof. Ben L. FERINGA (Organic Chemistry)
- Prof. Mercedes GARCIA-ARENAL (History)
- Prof. Gerd GIGERENZER (Psychology)
- Prof. Maria LEPTIN (Biology), ERC President
- Prof. Liselotte HØJGAARD (Medicine)
- Prof. Dirk INZÉ (Plant Biology)
- Prof. Andrzej JAJSZCZYK (Electronics and Communication Engineering), ERC Vice-President
- Prof. Eystein JANSEN (Earth Science)
- Prof. Michael KRAMER (Astrophysics)
- Prof. Rodrigo MARTINS (Materials, Nanotechnologies, Electronics)
- Prof. Kurt MEHLHORN (Computer Science)
- Prof. Barbara ROMANOWICZ (Geophysics)
- Prof. Nicola SPALDIN (Materials Theory)
- Prof. Jesper SVEJSTRUP (Biology)
- Prof. Nektarios TAVERNARAKIS (Molecular Systems Biology), ERC Vice-President
- Prof. Alice VALKÁROVÁ (Nuclear and Particle Physics)
- Prof. Milena ŽIC FUCHS (Linguistics)

After More than 14 Years, a Success Story

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Over **10,000** top researchers funded since the ERC's creation in 2007



Over **200,000** articles from ERC projects published in prestigious scientific journals



Over **75,000** researchers and other professionals employed in ERC research teams



> 850 research institutions hosting ERC grantees – universities, public or private research centres in the EU or associated countries



€ 16 billion

ERC budget for 2021-2027 under Horizon Europe



85nationalities of grant holders



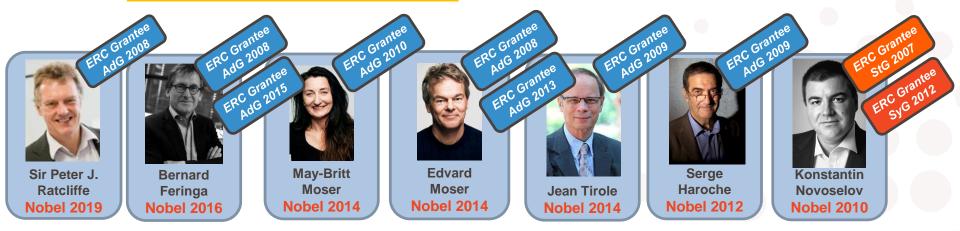
Nobel Prizes to ERC Grantees



ERC Granto AdG 2010 ERC Grantee ERAdG 2015

Benjamin List Nobel 2021 The Nobel Prize in Chemistry 2021 was awarded jointly to Benjamin List and David W.C. MacMillan "for the development of asymmetric organocatalysis".

Giorgio Parisi Nobel 2021 The Nobel Prize in Physics 2021 was awarded jointly to Syukuro Manabe, Klaus Hasselmann and Giorgio Parisi "for ground-breaking contributions to our understanding of complex physical systems".

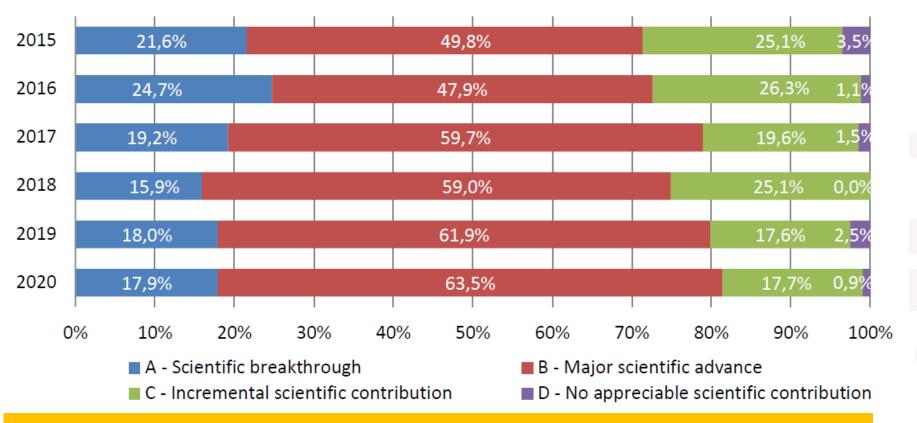


- 7 other ERC grantees received the Nobel prize in 2010, 2012, 2014, 2016 and 2019
- Other 7 ERC grantees were already Nobel laureates at the moment they received the ERC grant

20% of the ERC-funded Projects Deliver Scientific Breakthroughs



Qualitative evaluation of completed ERC projects Overall results for the organized exercises



ERC Funds the Best Research of All Major Funders in the World

Table 2. The 50 most frequently acknowledged funders in the Web of Science sorted by category normalised citation impact, 2007-16⁶

"The ERC had the highest category
normalised citation impact, the highest
percentage of papers in the world's top
1% and the highest percentage of
papers involving international co-
authorship of the 50 funders most
frequently acknowledged by authors in
the Web of Science between 2007 and
2016. Of the 100 most frequently
acknowledged funders, only three (all
large pharmaceutical companies) have
a higher citation impact – though not
substantially higher."
(Clarivate Analytics - "The European
Research Council - The first 10 years",

Name	Papers	Category normalized citationimpact	Percentage top 1% papers	Percentage internationally collaborative papers
European Research Council (ERC)	40,422	2.46	4.84%	59.24%
Wellcome Trust	41,040	2.10	3.60%	55.62%
United States Department of Energy (DOE)	123,864	2.09	3.92%	39.39%
NIH National Cancer Institute (NCI)	55,496	2.08	3.68%	29.69%
Medical Research Council UK	38,442	2.08	3.76%	48.81%
NIH National Heart Lung & Blood Institute (NHLBI)	30,092	1.95	3.27%	28.81%
Swiss National Science Foundation	50,598	1.90	3.01%	59.03%
Federal Ministry of Education & Research (BMBF)	43,462	1.75	2.68%	48.12%
National Institutes of Health (NIH) – USA ⁷	617,950	1.73	2.61%	28.37%
National Science Foundation (NSF)	380,893	1.73	2.76%	36.36%
National Health and Medical Research Council of Australia	40,898	1.70	2.31%	42.24%
Australian Research Council	65,631	1.65	2.26%	50.65%
French National Research Agency	41,385	1.62	2.04%	47.65%
Ministry of Science and Technology, China	32,098	1.61	2.49%	28.98%
Swedish Research Council	41,161	1.60	2.09%	57.87%
Engineering & Physical Sciences Research Council (EPSRC)	60,697	1.58	2.07%	43.01%

ERC Grant Schemes



Starting Grants

starters (2-7 years after PhD) up to € 1.5 Mio for 5 years

Consolidator Grants

consolidators (7-12 years after PhD) up to € 2 Mio for 5 years

Advanced Grants

track-record of significant research achievements in the last 10 years up to € 2.5 Mio for 5 years

Proof-of-Concept

of marketable innovation lump sum €150,000 for ERC grant holders Synergy Grants (re-launched 2018)

2 – 4 Principal Investigators up to € 10.0 Mio for 6 years 1 PI can be based outside EU/AC



Creative Freedom to Individual Grantee



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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



Evaluation Panel Structure (2021-2022)



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Life Sciences

- LS1 Molecules of Life: Biological Mechanisms, Structures and Functions
- LS2 Integrative Biology: From Genes and Genomes to Systems
- LS3 Cellular, Developmental and Regenerative Biology
- LS4 Physiology in Health, Disease and Ageing
- LS5 Neuroscience and Disorders of the Nervous System
- LS6 Immunity, Infection and Immunotherapy
- LS7 Prevention, Diagnosis and Treatment of Human Diseases
- LS8 Environmental Biology, Ecology and Evolution
- LS9 Biotechnology and Biosystems Engineering

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
- PE11 Materials Engineering

Social Sciences and Humanities

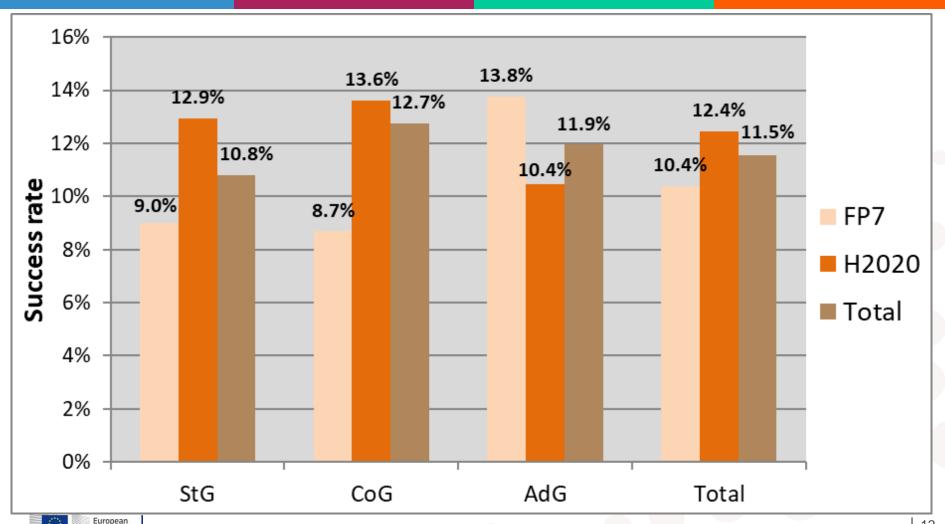
- SH1 Individuals, Markets and Organisations
- SH2 Institutions, Governance and Legal Systems
- SH3 The Social World and Its Diversity
- SH4 The Human Mind and Its Complexity
- SH5 Cultures and Cultural Production
- SH6 The Study of the Human Past
- SH7 Human Mobility, Environment, and Space



Success Rate by Scheme and Programmeerc

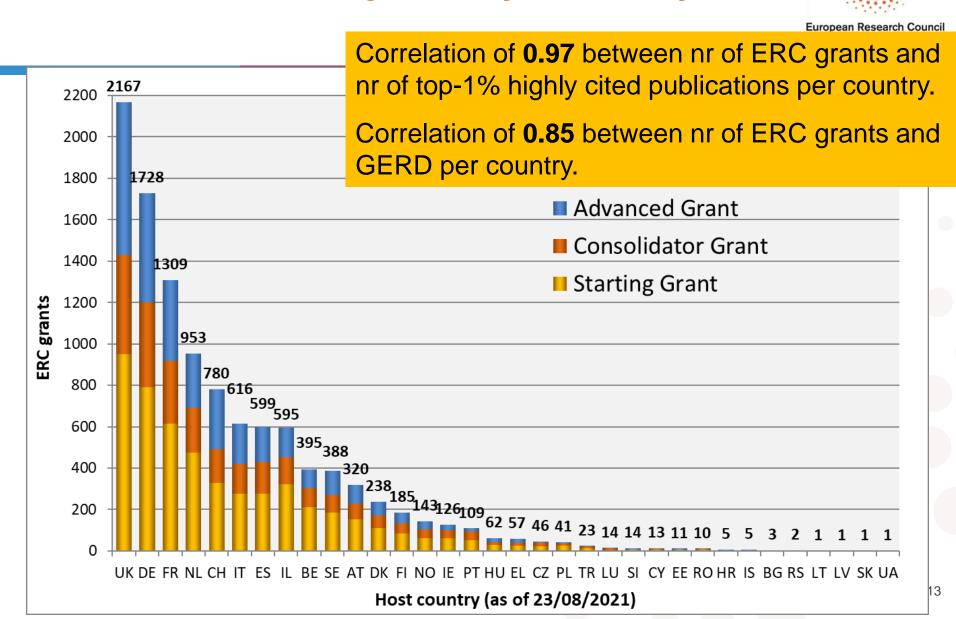
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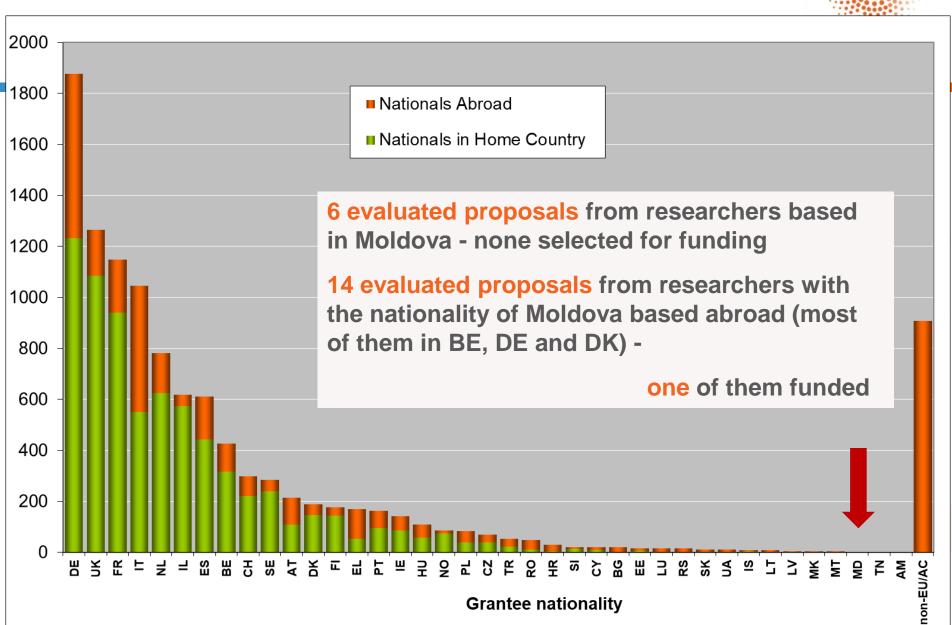
ERC Funded Projects by Country of HI





Researchers from Moldova at ERC





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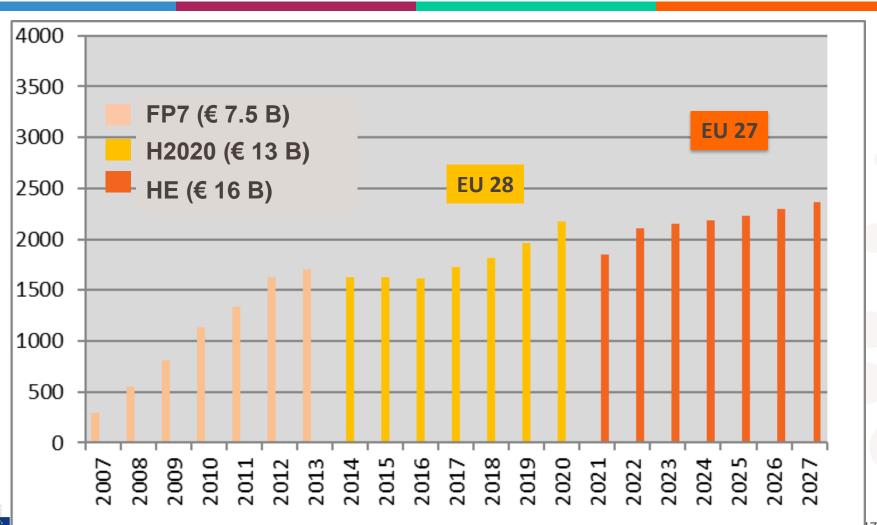


ANNEX



ERC Budget





ERC Funding Schemes Evaluation Criteria





Excellence of the Research Project

- Ground breaking nature
- Potential impact
- Scientific Approach

Excellence of the Principal Investigator

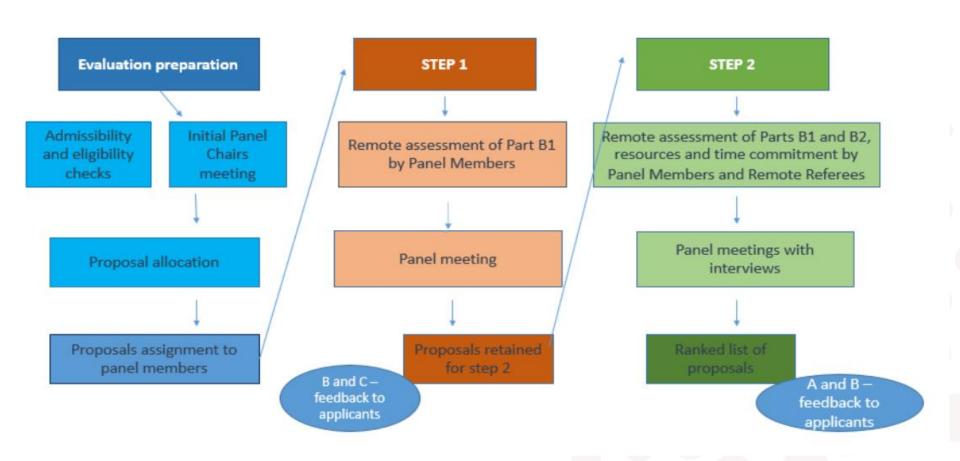
- Intellectual capacity
- Creativity
- Commitment



ERC Evaluation Process (StG/CoG/AdG) erc

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Where to Find More Information





Videos - ERC Classes

- What to consider before applying
- How to fill in the application
 (Part B1 and B2)
- The interview
- How the evaluation works

https://www.youtube.com/wat ch?v=xbFbzkVWgCU&list=P Ltv6FnsXqnXAYRk6HCErwM xwML0ZKoMcy

