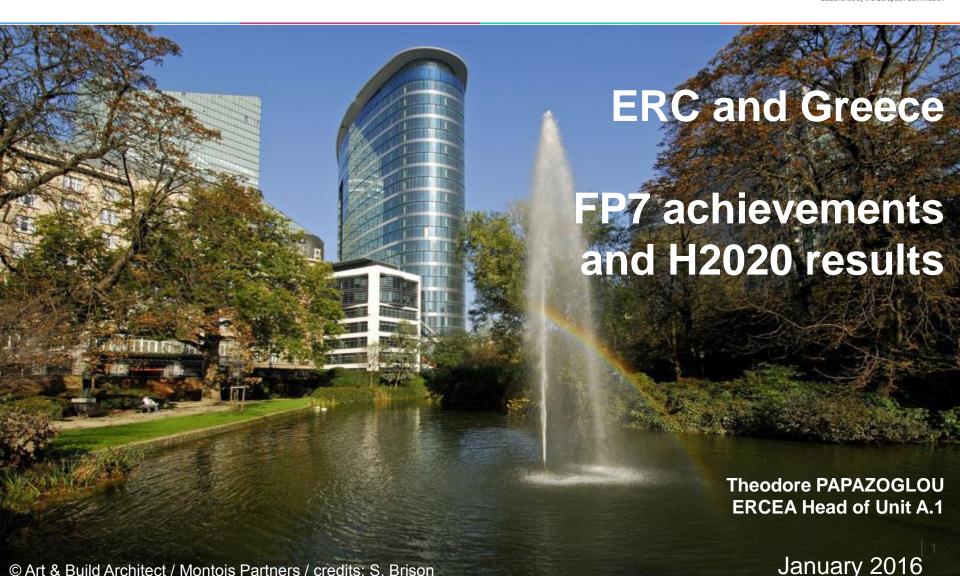
The European Research Council



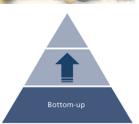


What is ERC?













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

- 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

- 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 Structure



Established by the European Commission



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 Scientific Council

- 22 prominent researchers proposed by an independent identification committee
- Appointed by the Commission (4 years, renewable once)
- Establishes overall scientific strategy; annual work programmes (incl. calls for proposals, evaluation criteria); peer review methodology; selection and accreditation of experts
- Controls quality of operations and management
- Ensures communication with the scientific community



The ERC Executive 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
- Carries out communications activities and ensures information dissemination to ERC stakeholders

ERC in the H2020 Structure



The HORIZON 2020 main components:

- Excellent Science
 - → World class science is foundation of technologies, jobs, well-being
 - → Europe needs to develop, attract, retain research talent
 - → Researchers need access to the best infrastructures
- Industrial leadership
- Societal challenges

Excellent Science:

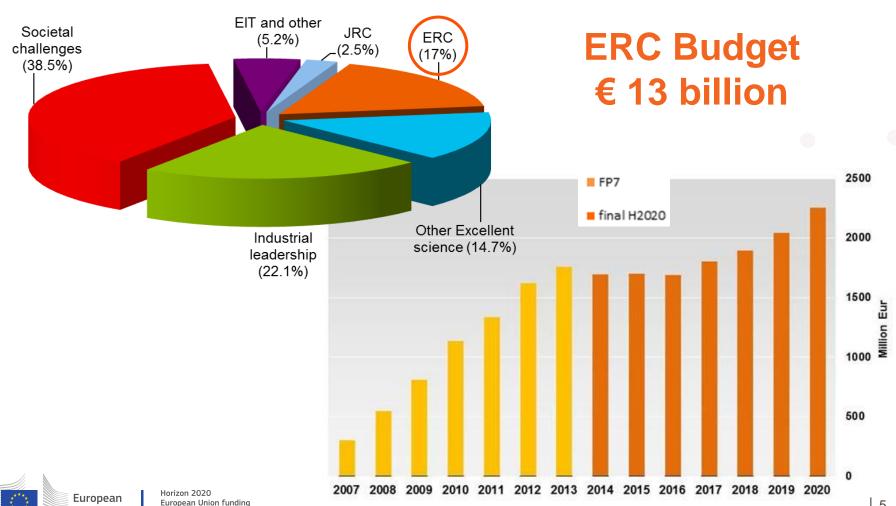
- European Research Council (budget under H2020: € 13 billion)
- Future and Emerging Technologies
- Marie Skłodoswka Curie Actions
- Research Infrastructures



ERC H2020 Budget



Established by the European Commission

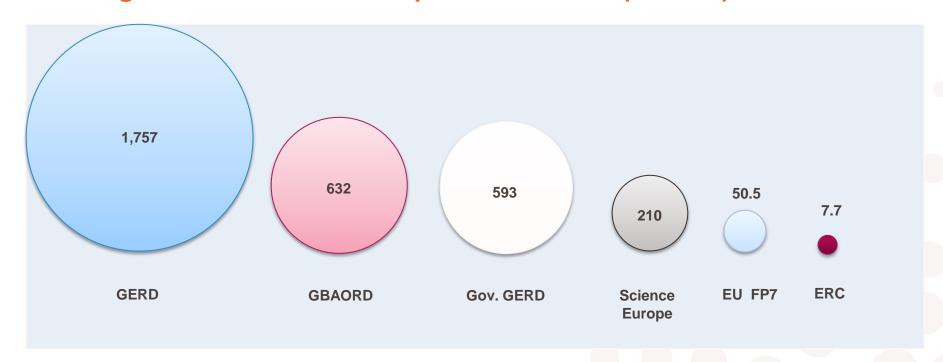


Commission

Putting ERC Budget in some context - 1



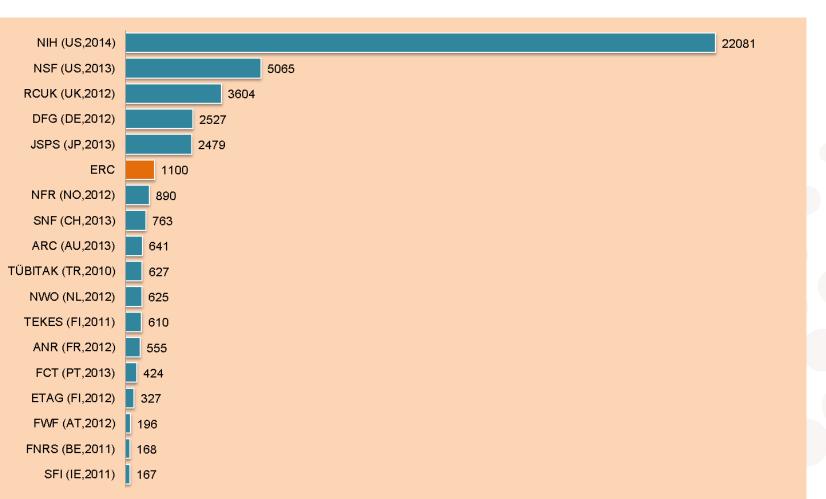
ERC budget in FP7 vs. Public expenditure in MS (in € bil.)



Putting ERC Budget in some context - 2



ERC in FP7 vs. other research funding agencies



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 € 2.0 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

bridging gap between research - earliest stage of marketable innovation up to €150,000 for ERC grant holders



Creative Freedom to Individual Grantee



European Research Council

Established by the European Commission

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 (WP2016)



European Research Council

Established by the European Commission

Life Sciences

- LS1 Molecular and Structural Biology and Biochemistry
- LS2 Genetics, Genomics, Bioinformatics and Systems Biology
- LS3 Cellular and Developmental Biology
- LS4 Physiology, Pathophysiology and Endocrinology
- LS5 Neurosciences and Neural Disorders
- LS6 Immunity and Infection
- LS7 Diagnostic Tools, Therapies and Public Health
- LS8 Evolutionary, Population and Environmental Biology
- LS9 Applied Life Sciences and Non-Medical Biotechnology

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

Proposal Structure



Administrative forms (Part A)

1 – G Sformation

2 – Admi e data of particip anisations

3 – Budget

4 – Ethics

5 - Call specific que

<u>Annexes</u>

Commitment of the host institution

Part B1 (submitted as pdf)

Evaluated in Step 1 & Step 2

Text box - Cross-panel explanation

a – Extended synopsis 5 pages

b – Curriculum vitae 2 pages

c - Track-record 2 pages

Appendix – Funding ID

Part B2 (submitted as pdf)

Not evaluated in Step 1 (Step 2 only)

Scientific proposal 15 pages

a - State-of-the-art and objectives

b – Methodology

c – Resources

Guidelines and Recommendations in the Information for Applicants



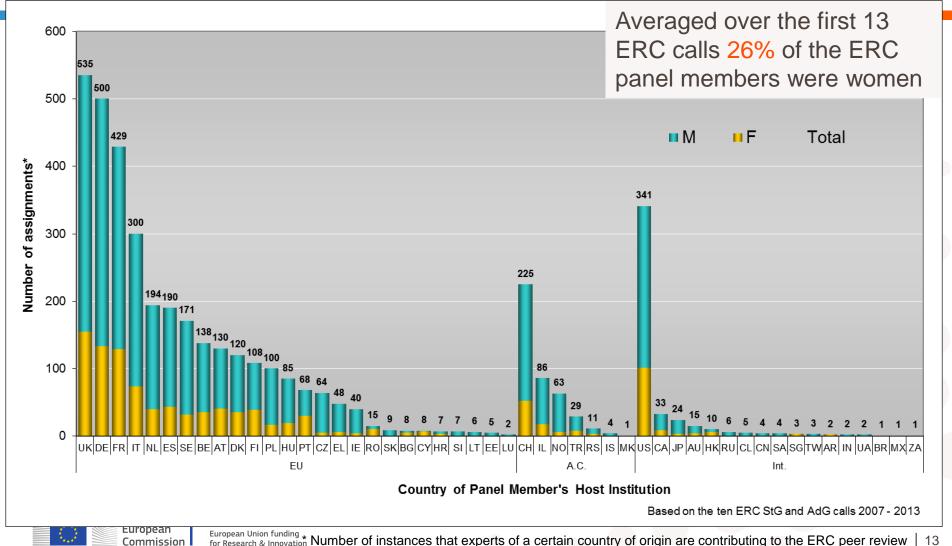
How Are the Proposals Evaluated? Single Submission, but a Two-step Evaluation

European Union funding for Research & Innovation



STEP 1 STEP 2 Remote assessment by Panel Remote assessment by Panel members members and reviewers of full of section 1, part B1: synopsis and PI proposals: part B1+ B2 Panel meeting Panel meeting StG & CoG: Interviews Proposals retained Proposals rejected Ranked list of proposals (score B & C) for step 2 (score A) (scores A & B) Feedback to Redress applicants Horizon 2020 European

FP7 ERC erc Panel Members by Country of HI and Gend



FP7 ERC & H2020 Panel Members from Greece



40 Individual Panel Members (27 from Athens area research organizations/universities)

91 instances* (from 1 to 5 calls per panel member)

4 Panel Chairpersons (from 1 to 3 calls)

206 Evaluations of individual proposals as remote referees (typically 1, up to 6 over multiple calls)



After 8 Years, a Success Story





Over **5,000** top researchers funded since the ERC's creation in 2007



Over 30,000 articles featuring ERC projects published in prestigious scientific journals



Over 40,000 researchers and other professionals employed in ERC research teams



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



€13 billion
ERC budget for 2014-2020 under
Horizon 2020



66
nationalities of grant holders



Figure 6.13: Evaluated* and funded applicants by nationality DEKRIT LIESES SCHKLAFFT HIEN CALURUN CT PRYNGRACUS NEUS SBK DE UK ES FR NL L ELE SE FI US PLAT PK **European Research Council** Established by the European Commission ■ StG ■ CoG AdG RO CH HU IE R U Z O B S C C I A S C H J D R L E A S Z R S X R L MX LT RS CR LV IR BY SG MY TW EG AL MT CU ZA CL TN MΑ BR IS SK EC CM GE VE PK CO TN MK ZA MT ΜK LK ΑM MY LV IR CO MD 16

200

300

400

500

600

100

7,000

6,000

1,000

2,000

3,000

4,000

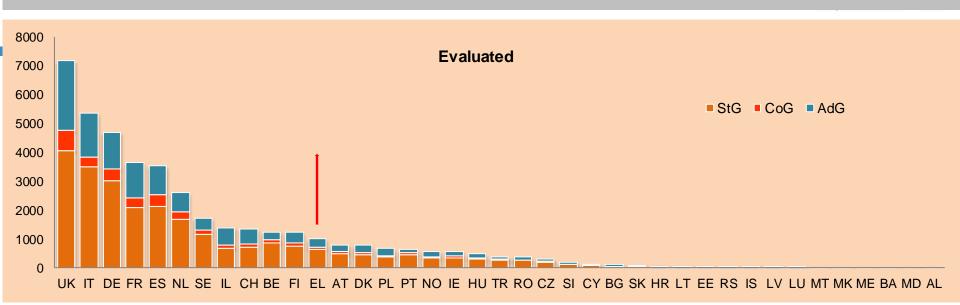
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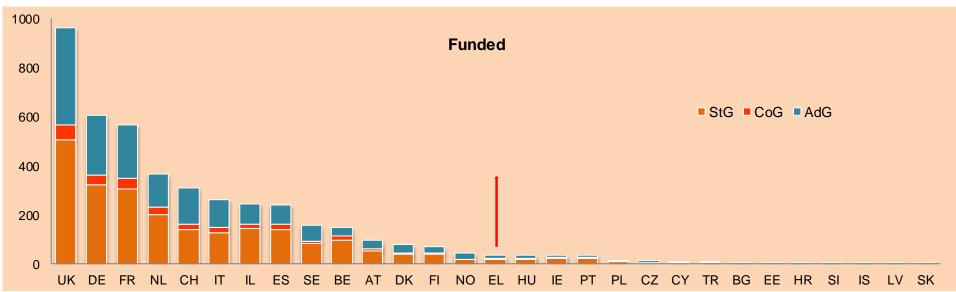
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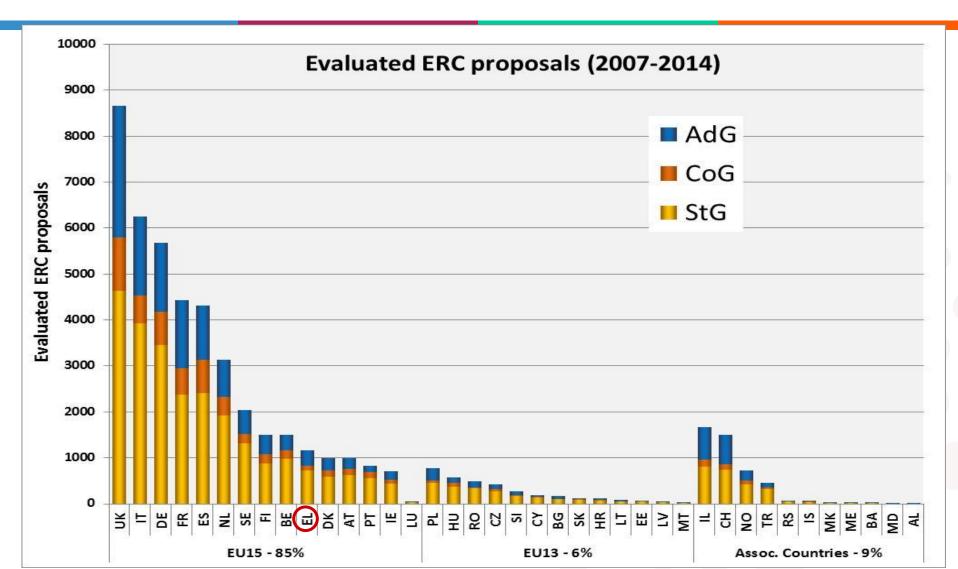
Figure 8.01: Evaluated and funded applicants by host country at application stage (StG, CoG and AdG)





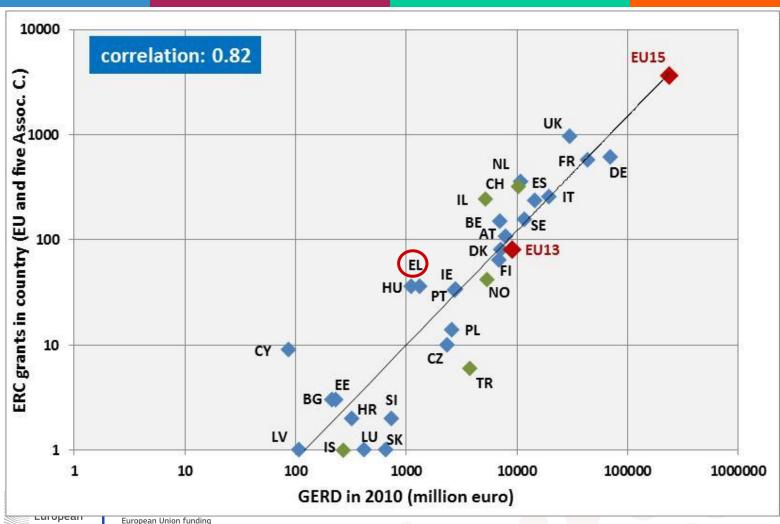
ERC Calls 2007 - 2014 Evaluated Proposals



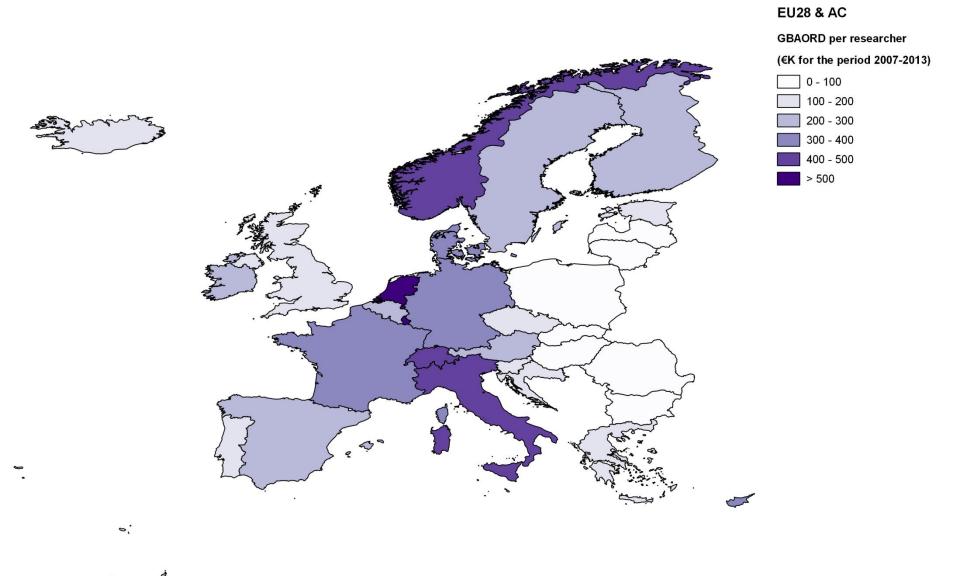


FP7 ERC Grant Distribution vs. R&D Expenditure

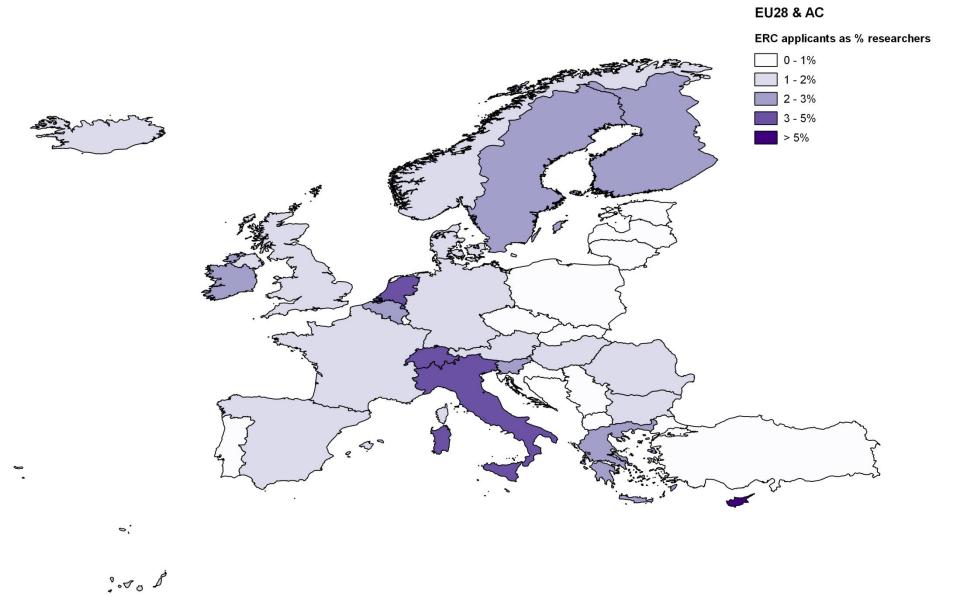




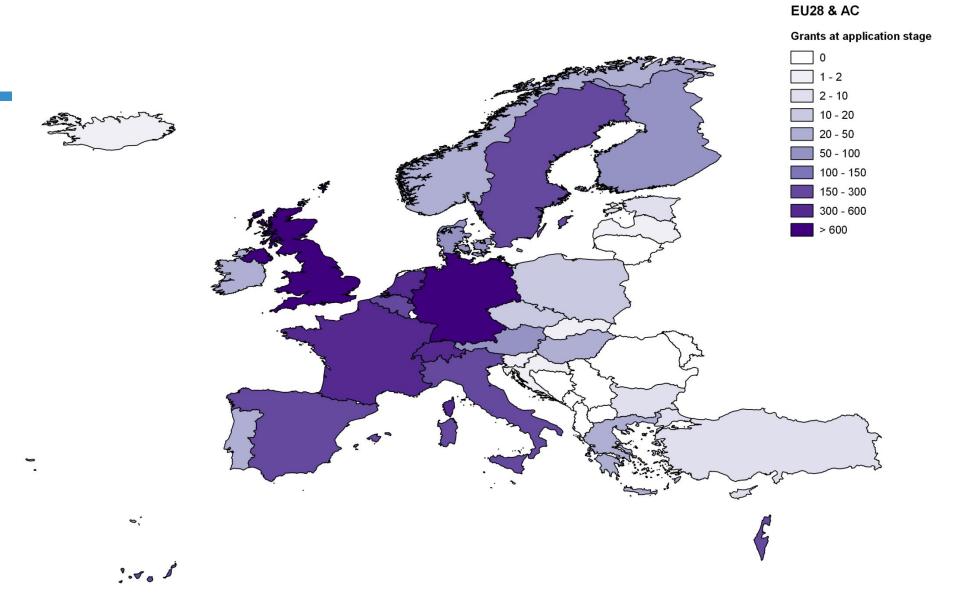




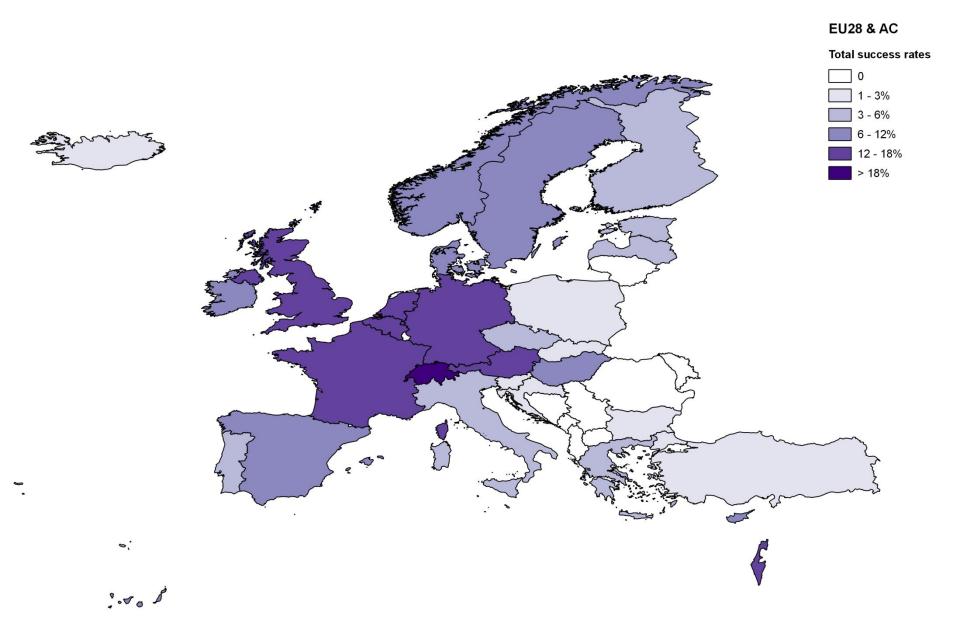






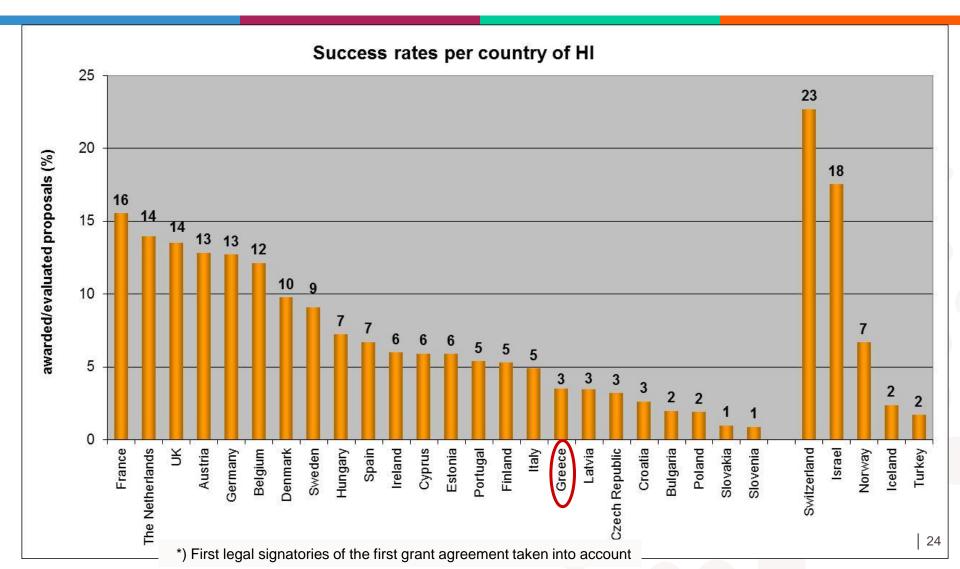




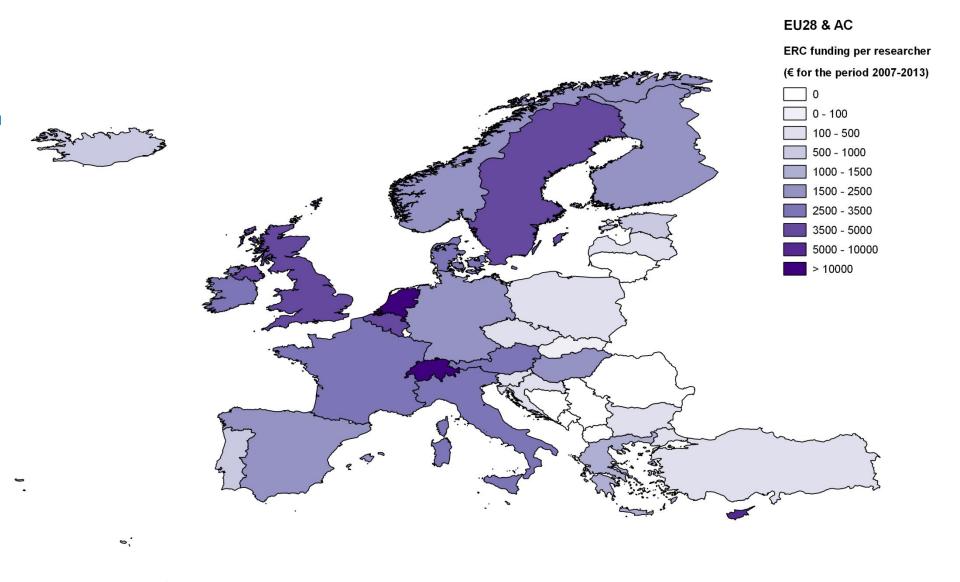


FP7 - Success Rates Per Country of Host Institution





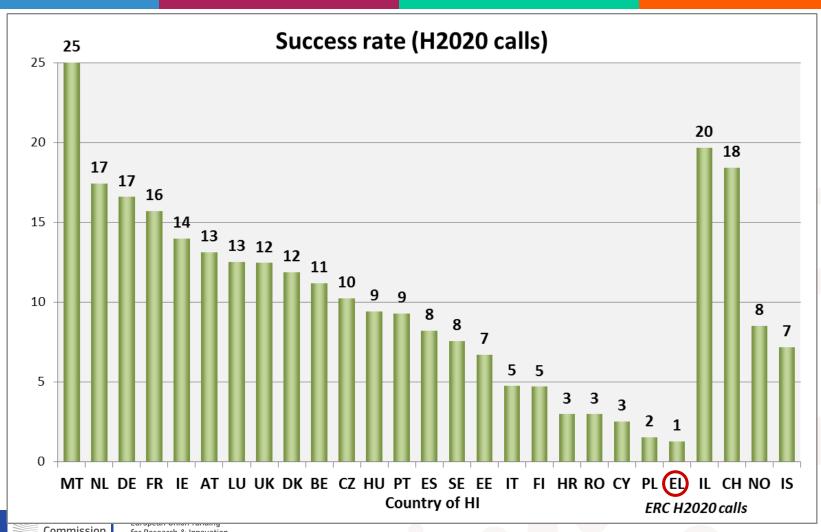




H2020 ERC – Success Rate by HI Country

European Research Council

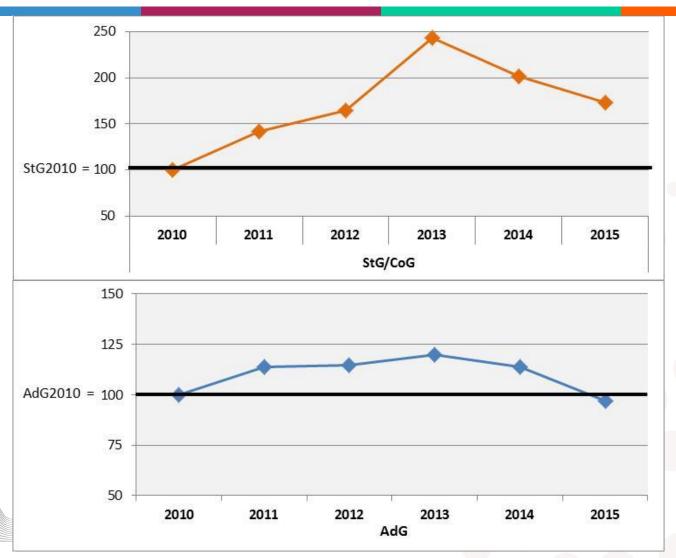
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Submitted Proposals Compared to 2010

European Research Council

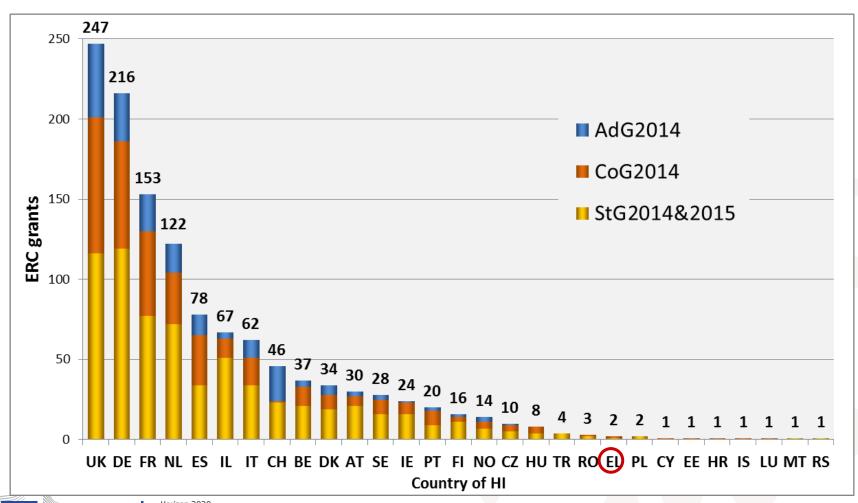
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H2020 ERC Funded Projects by Country of HI

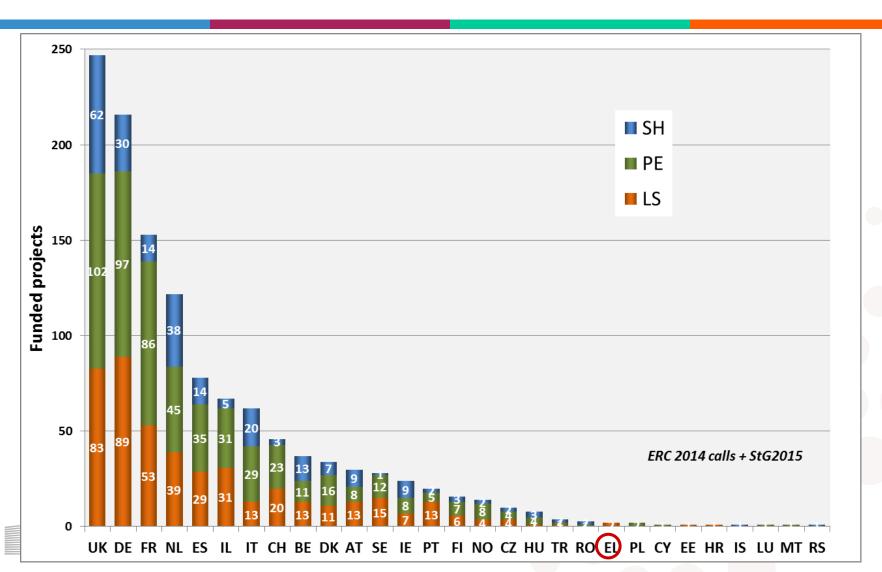






H2020 ERC Funded Projects by Domain

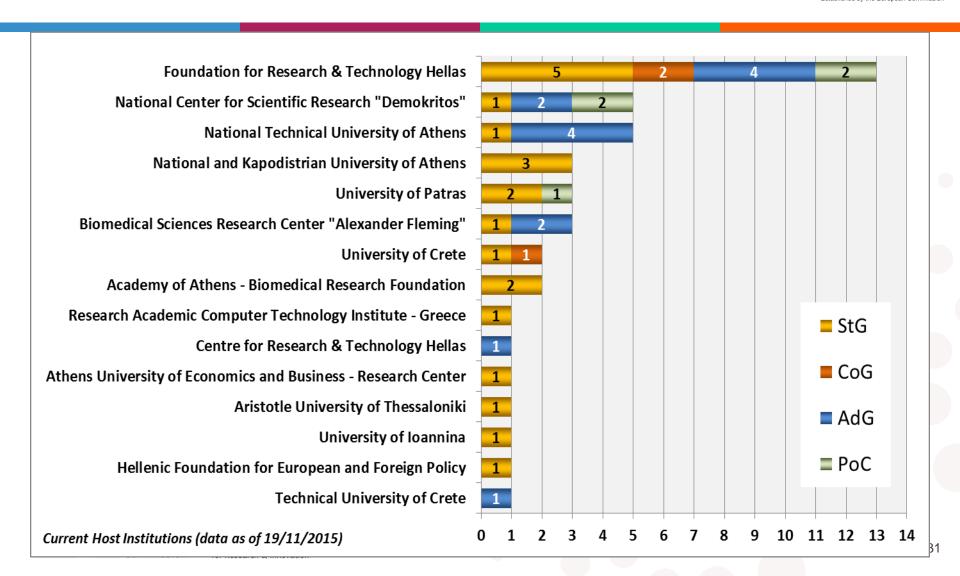




Country	Higher-Education Institution	No	StG	CoG	AdG	Total	LS	PE	SH	Тор
UK	University of Cambridge	1	72	21	60	153	58	70	25	<u></u>
UK	University of Oxford	2	68	17	65	150	45	63	42	European
	University College London	3	58	16	33	107	50	28	29	Institutions
	Weizmann Institute	4	51	13	30	94	54	38	2	Hosting
	Swiss Federal Institute of Technology Zurich (ETH Zurich)	5	34	4	54	92	30	58	4	
	Swiss Federal Institute of Technology Lausanne (EPFL)	6	47	2	42	91	27	62	2	at least 35
	Hebrew University of Jerusalem	7	47	6	31	84	38	32	14	ERC
	Imperial College	8	45	4	24	73	28	45		Grantees
	University of Edinburgh	9	26	8	27	61	19	25	17	
	University of Amsterdam	10	28	8	18	54	3	18	33	by Funding
	Tel Aviv University	11	37	2	14	53	21	28	4	Schemes
	University of Copenhagen	11	29	9	15	53	19	22	12	
	University of Leuven	12	28	8	16	52	14	25	13	ERC calls 2007-2014
	University of Munich (LMU)	13	24	2	25	51	19	20	12	
	University of Bristol	14	22	5	21	48	8	29	11	
	Radboud University Nijmegen	15	29	4	13	46	20	12	14	Current signatories
	Delft University of Technology	16	22	8	12	42	5	32	5	of the grant
	Technion - Israel Institute of Technology	16	29	5 3	8 19	42 41	14 26	27 6	9	agreement
	University of Zurich Leiden University	17 17	19 24	3	14	41	20	19	22	Determine
	Utrecht University	18	20	7	12	39	7	19	13	Data as of 19/11/2015
	University of Manchester	19	19	1	15	38	10	20	8	19/11/2013
	Free University and Medical Center Amsterdam (VU-VUmc)	20	18	6	13	37	9	11	17	
	University of Warwick	20	18	7	12	37	1	28	8	
	Lund University	21	18	4	13	35	15	18	2	
	University of Geneva	21	14	4	17	35	22	11	2	
Country	Research Organisation	No	StG	CoG	AdG	Total	LS	PE	SH	
	National Centre for Scientific Research (CNRS)	1	163	41	73	277	82	161	34	
	Max Planck Society	2	75	13	58	146	79	59	8	
	National Institute of Health and Medical Research (INSERM)	3	38	16	19	73	67	3	3	
	French Alternative Energies and Atomic Energy Commission	4	38	3	11	52	8	43	1	
	Spanish National Research Council (CSIC)	5	23	10	15	48	18	25	5	
	National Institute for Research in Computer Science and Automatic Control	6	24	2	12	38		38		

FP7 – H2020 ERC Calls Host Institutions in Greece





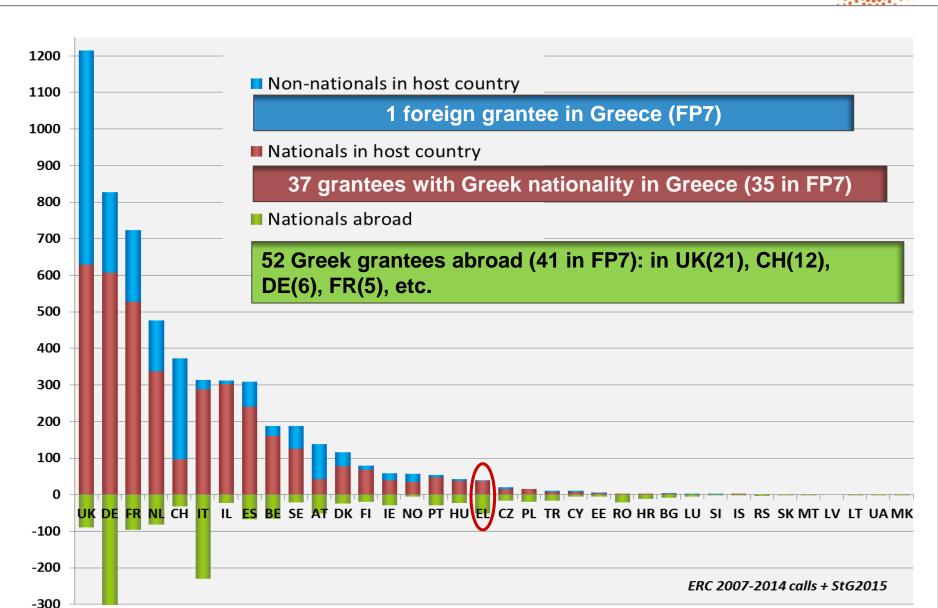




European Research Council
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Grantees at Home and Abroad

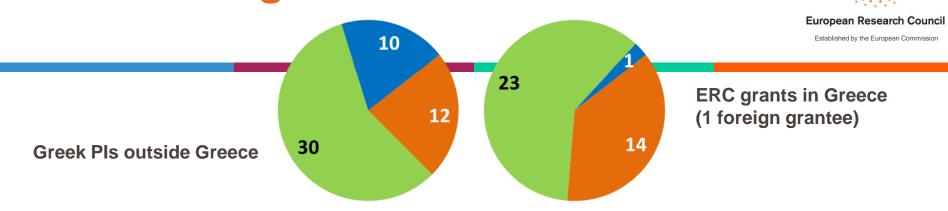




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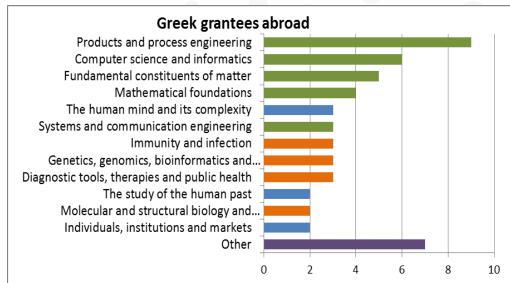
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Greek ERC grantees outside Greece



Greeks applying with a HI outside Greece	evaluated	grantees	s.rate	Greeks applying with a HI in Greece	evaluated	grantees	s.rate
resident in Greece	41	3	7%	resident in Greece	1124	32	3%
resident in other ERA countries	502	46	9%	resident in other ERA countries	23	1	4%
resident outside ERA	12	2	17%	resident outside ERA	47	5	11%
Total	555	51	9%	Total	1194	38	3%

Host institution	Greek PIs
University of Oxford	5
Imperial College	5
ETH Zurich	4
University of Cambridge	4
EPFL	4
University of Geneva	3
CNRS	3
Other	24
TOTAL	52



Frontier Research and Innovation: ERC Proof of Concept



- Initiated to help ERC grant-holder to bridge the gap between their research and the earliest stage of a marketable innovation
- Supporting grant-holders during the pre-demonstration
- → Up to 150.000 Euro per grant

	2011	2012	2013	TOTAL in FP	7	2014	2015-1	2015-2
Submitted	151	143	292	586	Submitted	442	96	107
Evaluated*	139	120	279	538	Evaluated*	426	90	101
Funded	51	60	67	178	Funded	120	45	44

^{*} withdrawn and ineligible proposals not taken into account



European Union funding for Research & Innovation

^{*} withdrawn and ineligible proposals not taken into account

WP2016 - Calls Planning



ERC calls	Budget	Call Publication	Submission Deadline(s)		
Starting Grants ERC-2016-StG	485 M€	29 July 2015	17 November 2015		
Consolidator Grants ERC-2016-CoG	605 M€	15 October 2015	2 February 2016		
Advanced Grants ERC-2016-AdG	540 M€	24 May 2016	1 September 2016		
Proof of Concept ERC-2016-PoC	20 M€	22 October 2015	DL1: 16 February 2016 DL2: 26 May 2016 DL3: 4 October 2016		

Preparing an Application Hints and Tips (Generalities)



- Register early, get familiar with the system and templates and start filling in the forms
- A submitted proposal can be revised until the call deadline by submitting a new version and overwriting the previous one
- Follow the formatting rules and page limits.
- Make use of the help tools and call documents (Information for Applicants, Work Programme, Frequently asked questions) to prepare your proposal
- Talk to the National Contact Points and your Institution's grant office



The European Research Council



- More information: erc.europa.eu
- National Contact Point: erc.europa.eu/national-contactpoints
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