

Researcher Mobility

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ERC Korea NCP

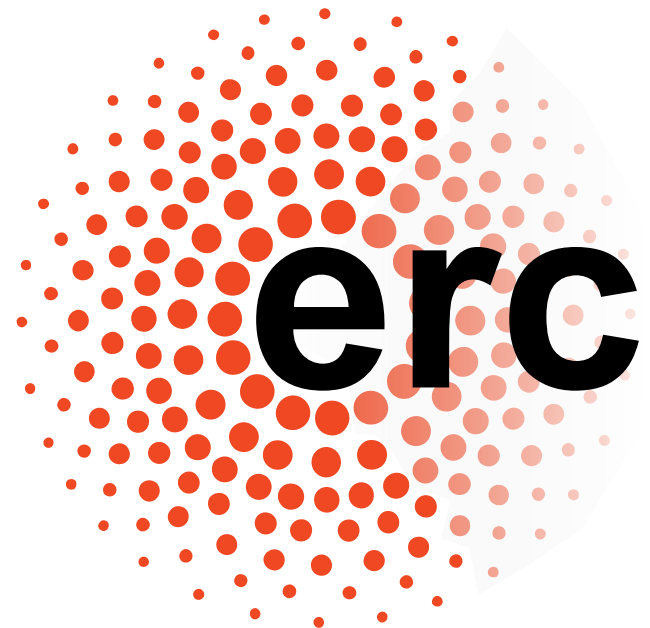
Principal Research Scientist

Korea Research Institute of Standards & Science

November 24th 2017

2017 EU R&I Day

Four Seasons Hotel, Seoul



European
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Horizon 2020
European Union funding
for Research & Innovation

Researcher Mobility: ERC

- Through 2 ways
 1. European Research Council Grants
 - Independent PI with ERC Grant for 5 years
 - Join ERC grantee's team (long-term)
 2. Through ERC Implementation Arrangements
 - Join ERC grantee's team (short & long term)
 - Direct contact with ERC PI or MSIP funding

ERC: Work in Europe for a while!



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"Destination Europe": why?

- Scientific excellence
- Funding opportunities
- Innovation and business
- Culture
- Working life



What is ERC?

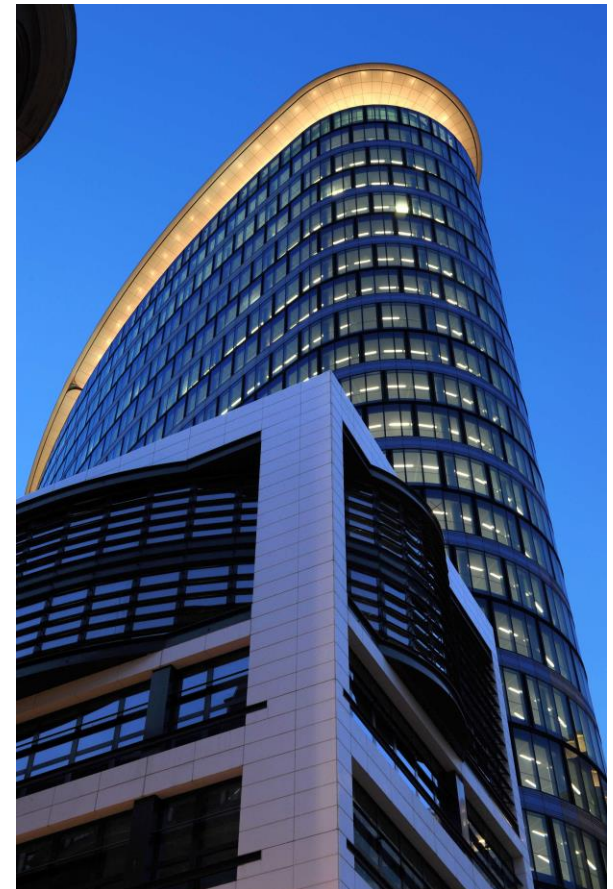
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- An autonomous funding body set up by the EU in 2007 and **led by scientists**
- Funding **excellent researchers of any nationality**
- To carry out frontier research in **all fields** of science and humanities
- **1 researcher, 1 Host Institution, 1 project, 1 selection criterion**
- Substantial grants and a **recognised label of excellence** (success rate: ~15%)
- International, top level **peer-review**

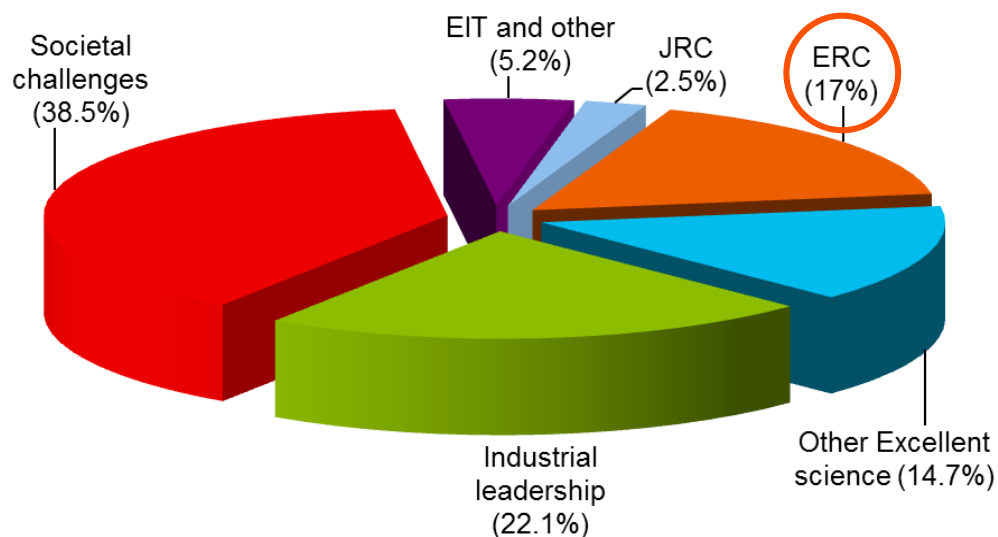


ERC Budget in H2020 - Excellent Science

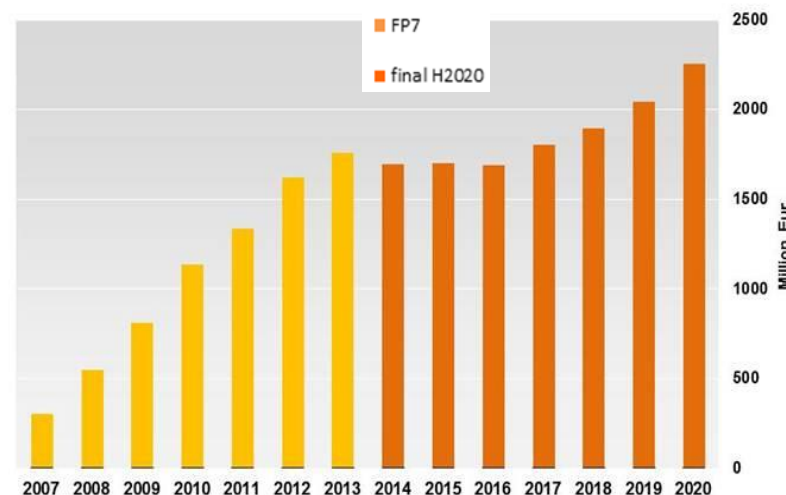


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H2020 budget € 77 billion
ERC budget € 13 billion

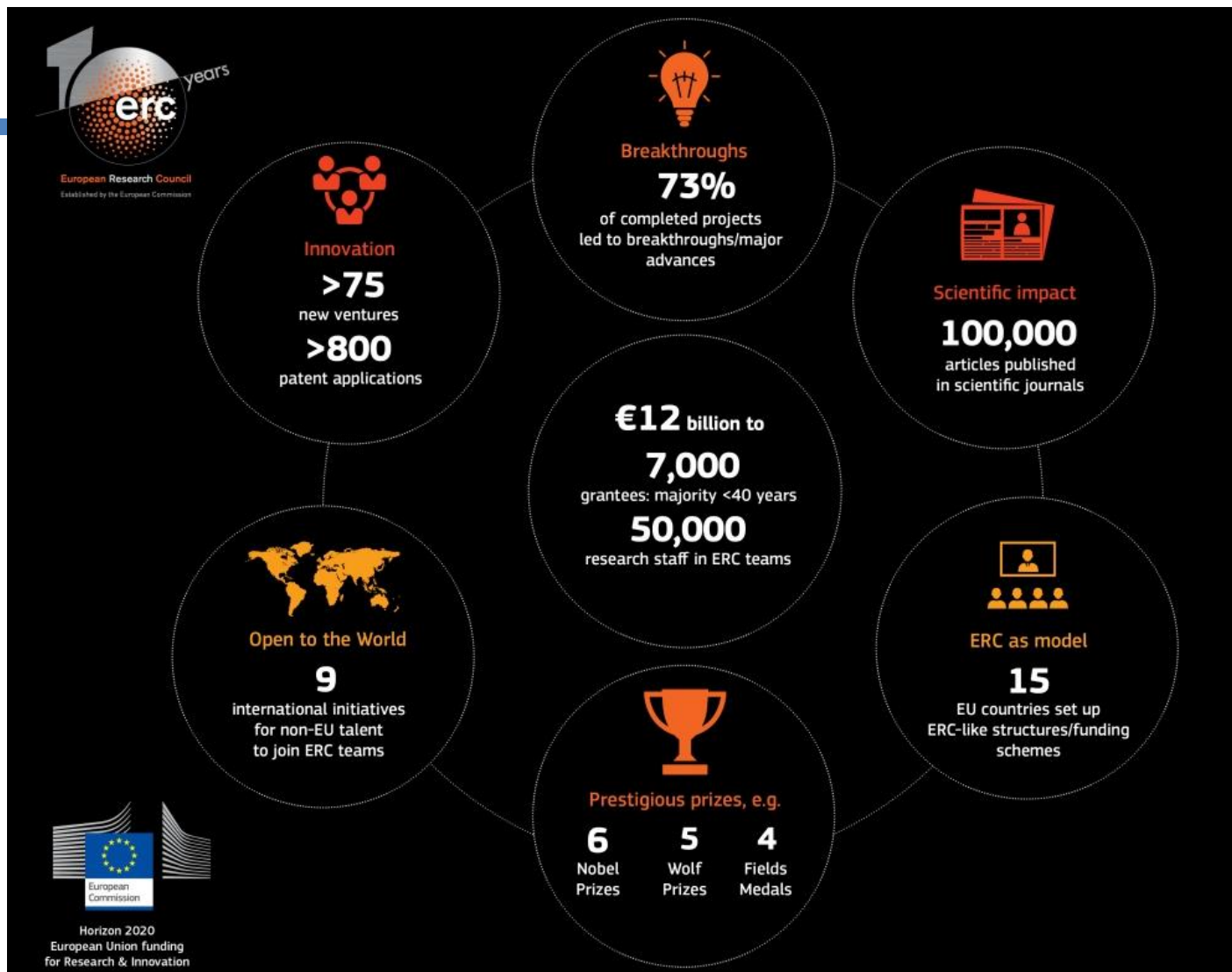


ERC's Success Story After 10 Years



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What does ERC offer?

Creative Freedom of the Individual Grantee



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ERC offers selective grants, independence, recognition & visibility

- Work on a topic of **own choice**, with a team of **own choice**
- Gain true **financial autonomy** for 5 years
- Negotiate **best work conditions** with the host institution
- Attract **top team members** (EU and non-EU)
- Move with the grant to any place in Europe
(**portability of grants**)
- **Attract additional funding and gain recognition**

ERC is a quality label



Who can apply?



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- **Excellent** Researchers with ground-breaking ideas
- **Any nationality, any age** or any current place of work
- In conjunction with a Host Institution based in Europe
EU or associated countries



Attracting Researchers from Outside Europe: Koreas' case



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- 66 proposals from applicants with Korean nationality have been evaluated by the ERC
- 8 Principal Investigators from Korea have obtained an ERC grant
- 150 Korean researchers are engaged as team members in ERC research teams all over Europe

ERC Grant Schemes: 5 types

Starting Grants

starters
2-7 years after PhD
up to **€1.5 Million**
for 5 years

Consolidator Grants

consolidators
7-12 years after PhD
up to **€2 Million**
for 5 years

Advanced Grants

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

Synergy Grants

Ambitious joint programs for 2-4 PIs
x-fertilization & interface research
complementarities, synergies &
added value
up to **€10,000,000** for 6 years

Proof of Concept

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

Attractive features for researchers from outside Europe



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- Grantee can **keep affiliation** with home institute outside Europe
- **Work time in Europe**, at least **50%**
- Team members can be based outside Europe
- Grantee can **move within Europe** with the grant
- **Additional funding** for scientists moving to Europe
 - €500 000 for Starting
 - €750 000 for Consolidator
 - €1 Million for Advanced and
 - €4 Million for Synergy grantees



ERC Panels for Evaluation and Selection



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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 & Public Health
- **LS8** Evolutionary, Population and Environmental Biology
- **LS9** Applied Life Sciences and Biotechnology

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

Physical Sciences & Engineering

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



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Summary of 2018 main calls & budget



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Calls	Call opens	Deadline(s)	Budget € million (estimated grants)
Starting Grant ERC-2018-StG	03 Aug 2017	17 Oct 2017	581 (391)
Consolidator Grant ERC-2018-CoG	24 Oct 2017	15 Feb 2018	550 (287)
Advanced Grant ERC-2018-AdG	15 May 2018	30 Aug 2018	450 (194)
Synergy Grant ERC-2018-Syg	30 Aug 2017	14 Nov 2017	250 (30)
Proof of Concept ERC-2018-PoC	06 Sep 2017	16 Jan 2018 18 Apr 2018 11 Sep 2018	20 (130)

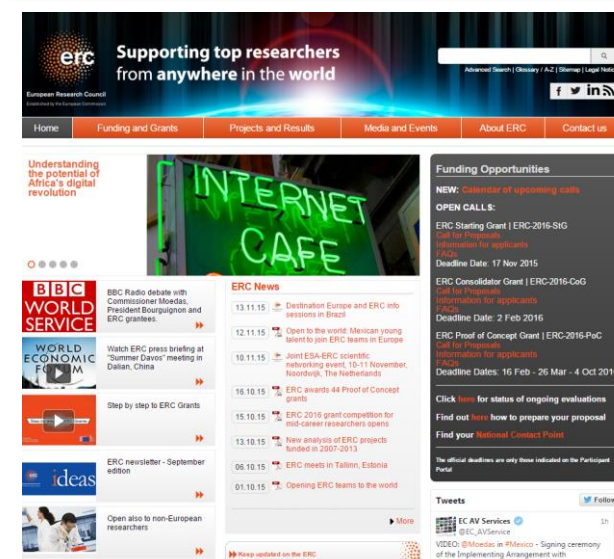
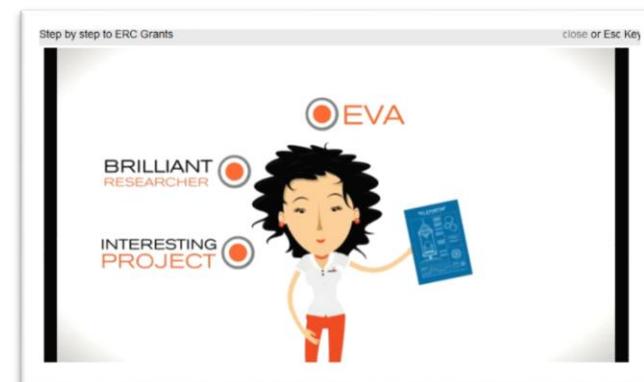
Some Useful Information



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- Read **Information for Applicants** and **Work Programme**
- Any doubts about your eligibility or any other questions, contact your **National Contact Point:**
Hyong-Ha Kim- kimhh@kriss.re.kr
- View the **step-by-step video** Introduction to application process, including tips & tricks for the interview
<https://vimeo.com/94179654>
- Consult **ERC website** for latest funding opportunities, view ERC funded projects



More Useful Information

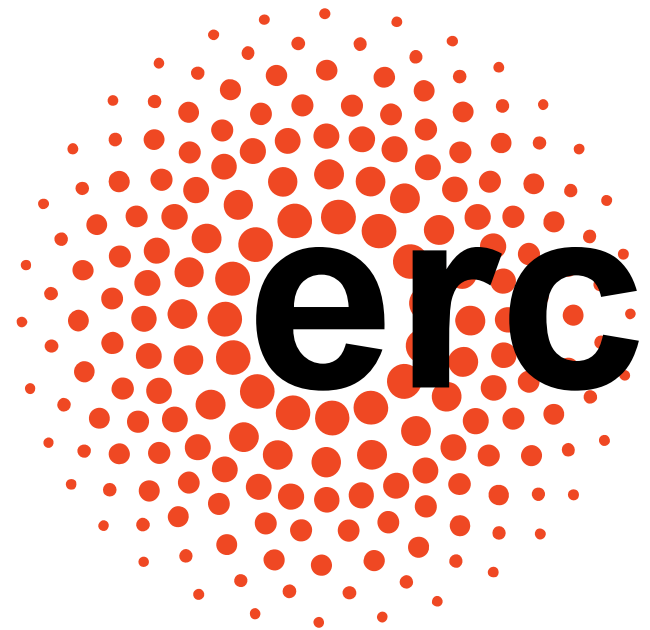


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- Acknowledgements: ERC Executive Agency Communications Unit

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Implementing Arrangements



Implementing arrangements

- Implementing arrangements - provide opportunities in Europe for scientists supported by non-EU funding agencies to temporarily join a research team run by an ERC grantee.
- **Nine countries** participate, including:
 - USA
 - Republic of Korea (2nd country to sign agreement, 2013)
 - Argentina
 - China
 - Japan
 - South Africa
 - Mexico
 - Brazil
 - Canada

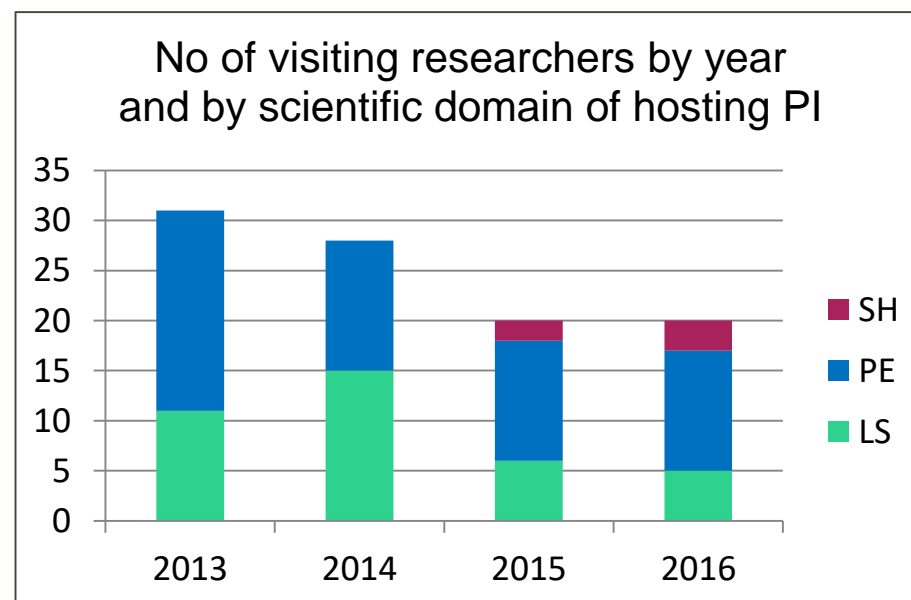
Implementing Arrangements: Results of Previous Calls



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- Since 2013, ~1500 ERC Principal Investigators (PIs) have expressed interest in temporarily hosting a Korean researcher in their team
- ~ 100 have been supported by MSIP-NRF (yearly budget for approx. 40)

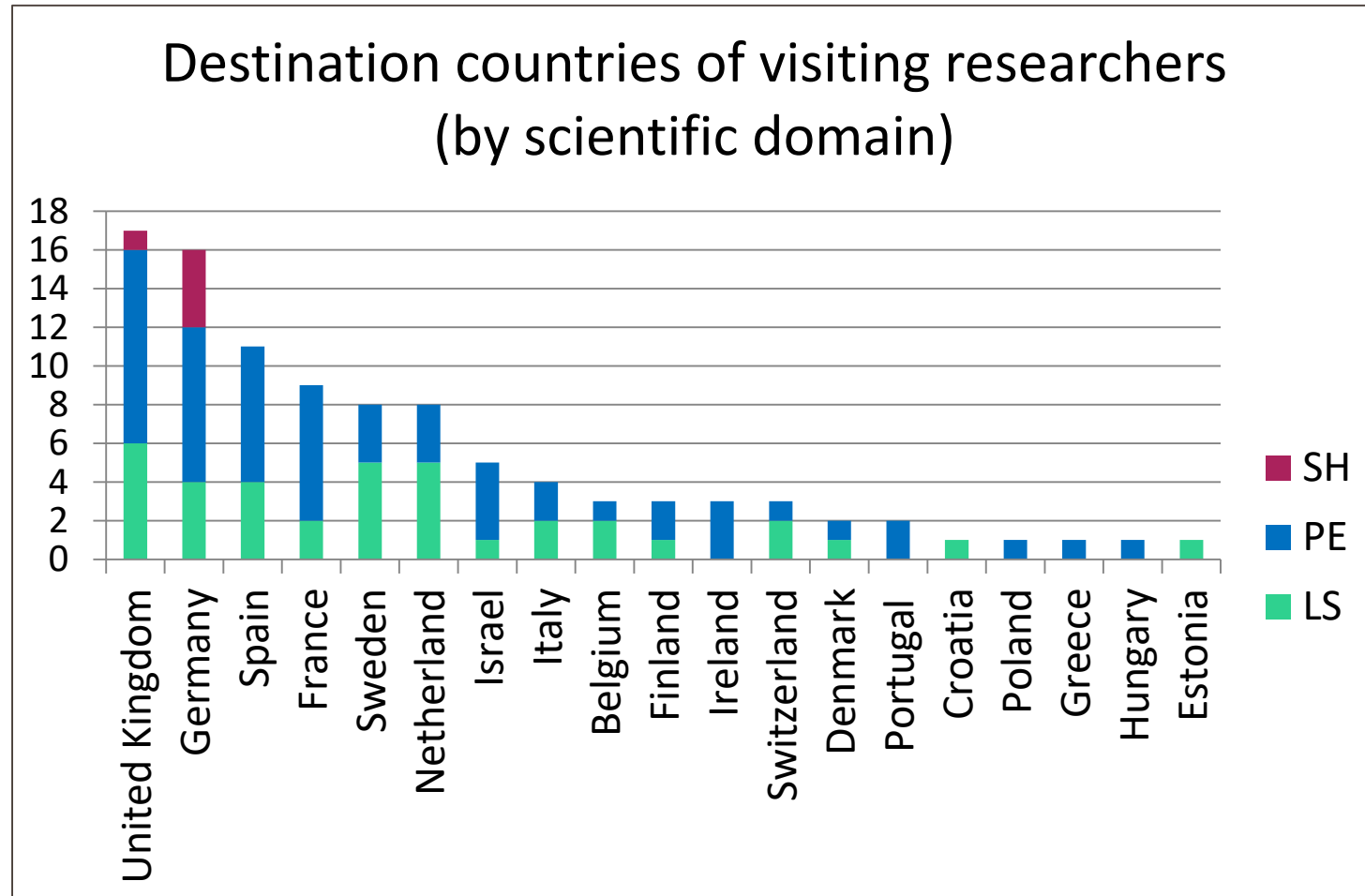
Year	No of ERC PIs expressing interest in hosting a visitor	No of Korean research visitors (YR/CA)
2013	492	31 (17/14)
2014	351	28 (19/9)
2015	298	20
2016	319	20 (+?)
Total	1460	99



Implementing Arrangements: Destinations of Korean Researchers



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Implementing Arrangements: Outcome



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- Additional visits in both directions
- Joint research launched
- Scientific publications & Patent applications
- Scientific talks and presentations
- Search for additional joint funding programs
- Other collaborations

*Survey & Data Compilation: Courtesy of NRF Advanced Research Program Team

Korea researchers' visit to ERC projects



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Types of visits

MSIP-EC agreement (signed on 8 Nov 2013): cooperation between KR- and EU-based scientists through research visits to ERC funded projects.

Provides opportunities for researchers funded by the MSIT to pursue research collaboration with ERC grantees on single long-term (6-12 months) or multiple short-term visits.

- M**
 - **MSIT Career Awardees**
 - Single and long-term (6-12 mos) or
 - Multiple short-term visits: should aggregate to an agreed-upon minimum (e.g., 6 mos).
- S**
- I**
- T**
 - **Young Researchers**
 - Single and long-term research visits (6-12 months).
- E**
- C**
 - **ERC Principal Investigators**
 - Hosts the KR-based scientist as a member of the research team

Korea researcher' visits to ERC projects



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Conditions

■ For Career Awardees

- **ERC grant** covers **subsistence costs**: *per diem* or any other applicable modality of the Host Institution.
- The **salary** is covered by own affiliation/NRF.
- **If Selected for MSIP-ERC IA support:**
- **NRF** provides **travel expenses** of the visiting researcher and accompanying family members in case of long-term visits.
- **NRF** provides **visiting-research expenses** for the European visit period.

■ For Young Researchers

- The **salary** and any applicable **social/health coverage expenses** is covered from the **ERC grant**.
- **If Selected for MSIP-ERC IA support:**
- **NRF** provides **travel expenses** of the visiting researcher and accompanying family members in case of long-term visits.
- **NRF** provides **visiting-research expenses** for the European visit period.



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MSIT (NRF) funds & Other Approaches for IA



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- 2016: 319 ERC grantees interested in hosting NRF grantees
- MSIT ensures budget of approx. 300K euros for ERC IA (40/yr)
 - Competitive, Prestigious Grantees (approx. 5,000/yr)
- MSIT & NRF 2017 Call: 2 times/year (March/September)
 - This year's selection process is on-going
 - Selection (November) & Dispatch (start from December)
- **2018 IA Funding Process**
 - **October 2017** - call for expression of interest for ERC PIs
 - **March 2018** – submission of Korean researchers' application at NRF
- Personal Contact is also possible: List of ERC PIs published on NRF Homepage
 - Contact to express interest (even without NRF support) like the other 150

Implementing Arrangements



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Acknowledgements

MSIT Basic Research Promotion Division

NRF Advanced Research Program Team

ERC Executive Agency Scientific Department

& Ms. Maarja Adojaan, Mr. Jean-Jacques VIALA

Support and information:

erc-implementing-arrangements@ec.europa.eu

<https://erc.europa.eu/funding-and-grants/opening-erc-teams-world>

Marie Skłodowska Curie Actions (MSCA)



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- Bottom-up Mobility Program
- > Half of 3rd country participation in H2020
- 1 in 4 researchers are attracted to Europe from outside
- 4 programmes
 - ITN: Innovative training Networks
 - IF: Individual Fellowships
 - RISE: Research & Innovation Staff Exchange
 - Cofund: Co-funding of regional, national & International Programmes

Marie Skłodowska Curie Actions (MSCA)



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Calls	Call opens	Deadline(s)	Budget € million	*Specifics
MSCA-ITN-2018 ETN/EID/EJD	12 Oct 2017	17 Jan 2018	442 375/32/35	
MSCA-IF-2018 EF/GF	18 Apr 2018	12 Sep 2018	273 228/45	**GF
MSCA-RISE-2018	22 Nov 2017	13 Mar 2018	80	**NRF
MSCA-COFUND-2018 DP/FP	18 Apr 2018	12 Sep 2018	80 30/50	
MSCA-NIGHT-2018 CSA	07 Nov 2017	14 Feb 2018	12 12	