



Delegation of the European Union
駐日欧州連合代表部



HORIZON 2020

***EU-Japan research cooperation opportunities through
Marie Skłodowska-Curie Actions and
European Research Council
under EU's Horizon 2020 programme***

Boost Your Career: Grants In Practice!

25.7.2016

Tom Kuczynski

Science and Technology

EU Delegation to Japan



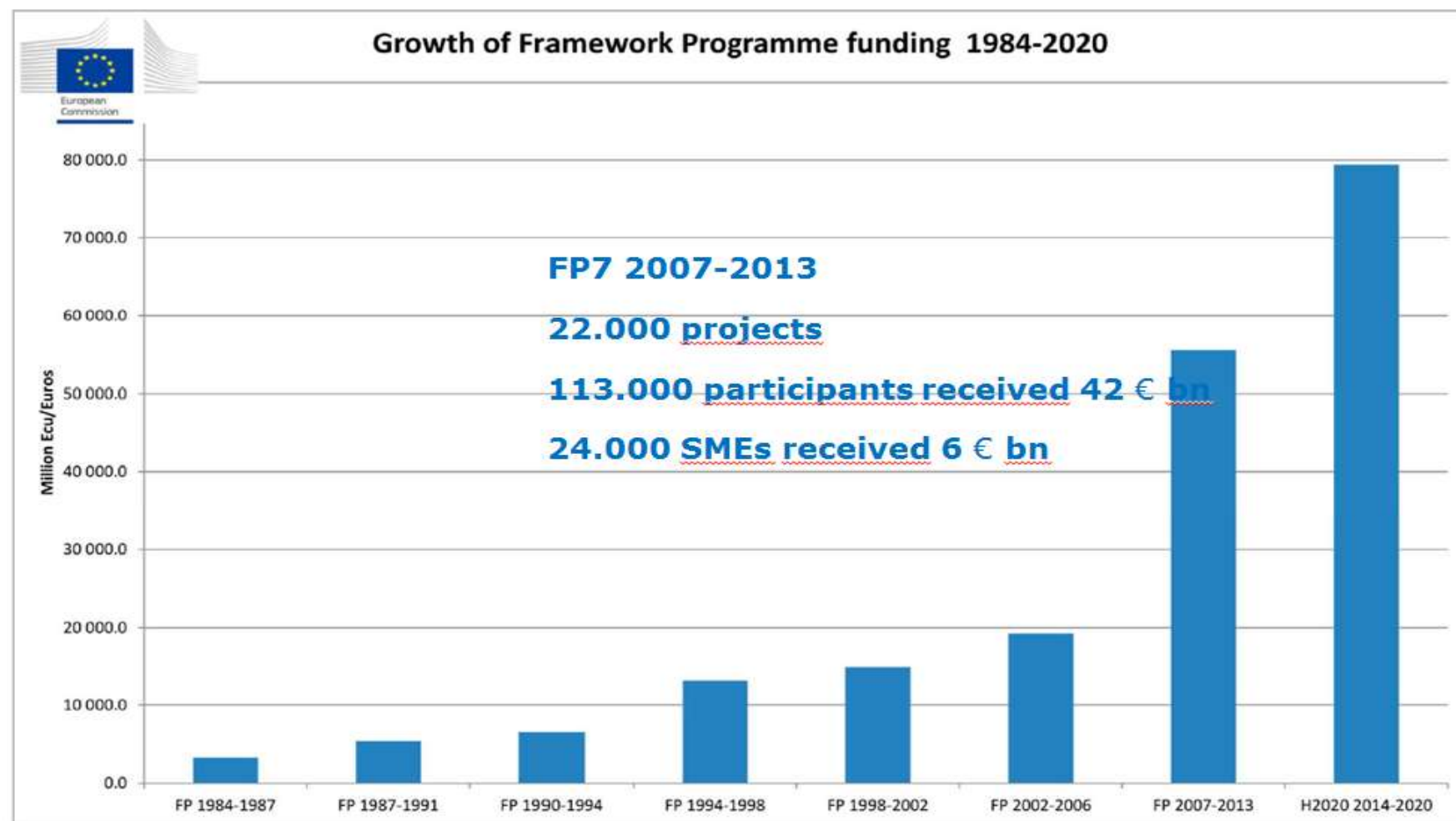
WHAT IS HORIZON 2020?

- *A single programme:
€80 billion research and
innovation funding programme
(2014 -2020)*
- *A response to economic crisis by
investing in future jobs and
growth*
- *Coupling research with
innovation: 'from lab to market'*
- *Focus on societal challenges:
health, clean energy, transport,
etc.*
- *Open to participation: companies,
universities, institutes in the EU
and beyond*





How has EU Research and Innovation funding evolved over recent years?





HORIZON 2020

Work Programme
2014-15

WP 2016-17

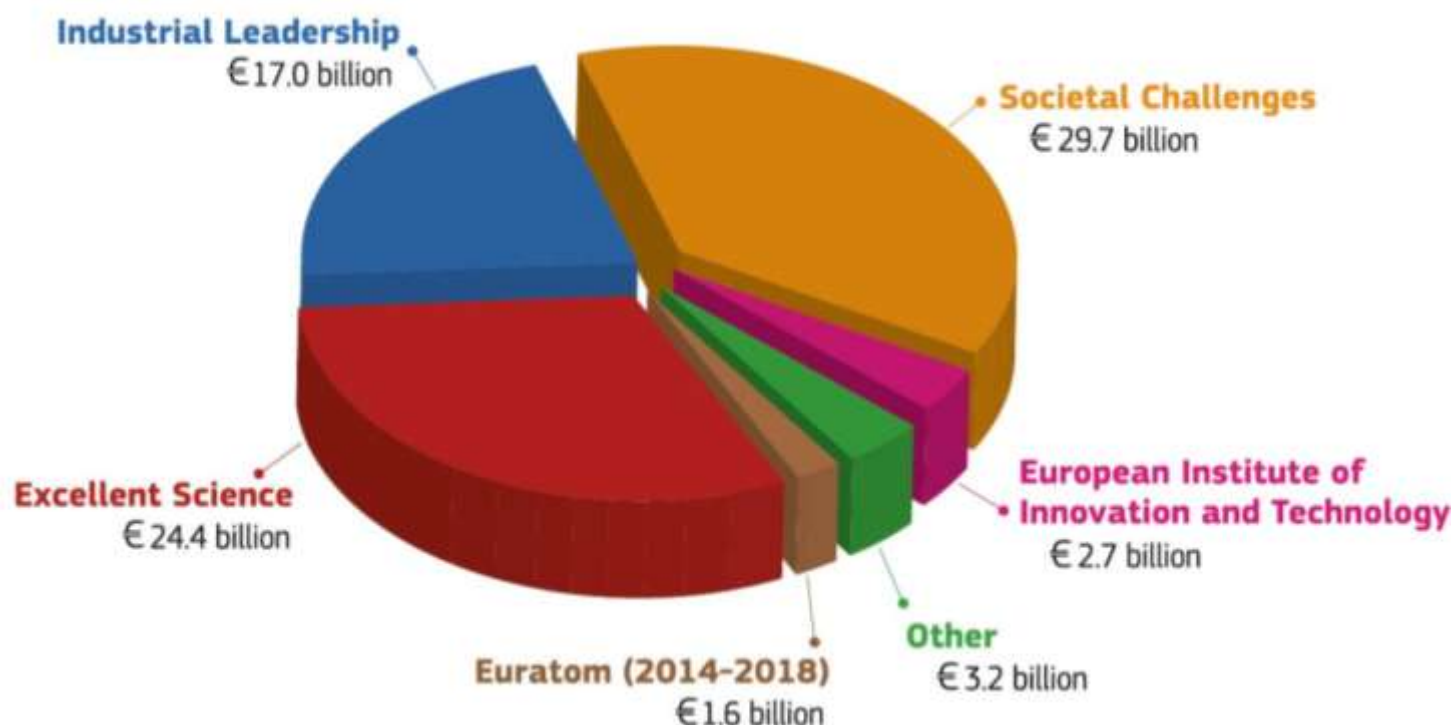
WP 2018-2020

- Budget of nearly **EUR 16 bn**
- **63 Calls, nearly 600 topics** and other activities
- **23 topics** explicitly inviting cooperation with Japanese researchers
- In 2016 alone, about **1000 ERC grants and 10,000 MSCA fellowships**
- About **EUR 2 bn funding** > 2000 innovative SMEs





Horizon 2020 budget (2014-2020)





Excellent science



- **European Research Council**

Supporting top researchers from anywhere in the world to work in Europe

- **Future and Emerging Technologies**

Supporting visionary thinking through collaborations between science and engineering

- **Marie Skłodowska-Curie actions**

Providing opportunities for training and career development of individual researchers

- **Research infrastructures- including e-infrastructure**

Ensuring access to world-class facilities

Marie Skłodowska-Curie Actions

- **Mobility** of researchers from **all over the world**
- Focus on **training** and **career development** of researchers
- Participation of **non-academic sector** strongly encouraged, especially industry and SMEs
- For researchers at **every stage** of their career
- Coverage for all domains of research (**bottom-up approach**)
- promotion of **attractive working and employment** conditions (financing rate of 100%)





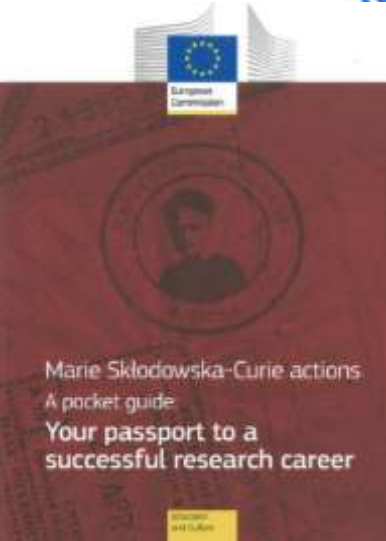
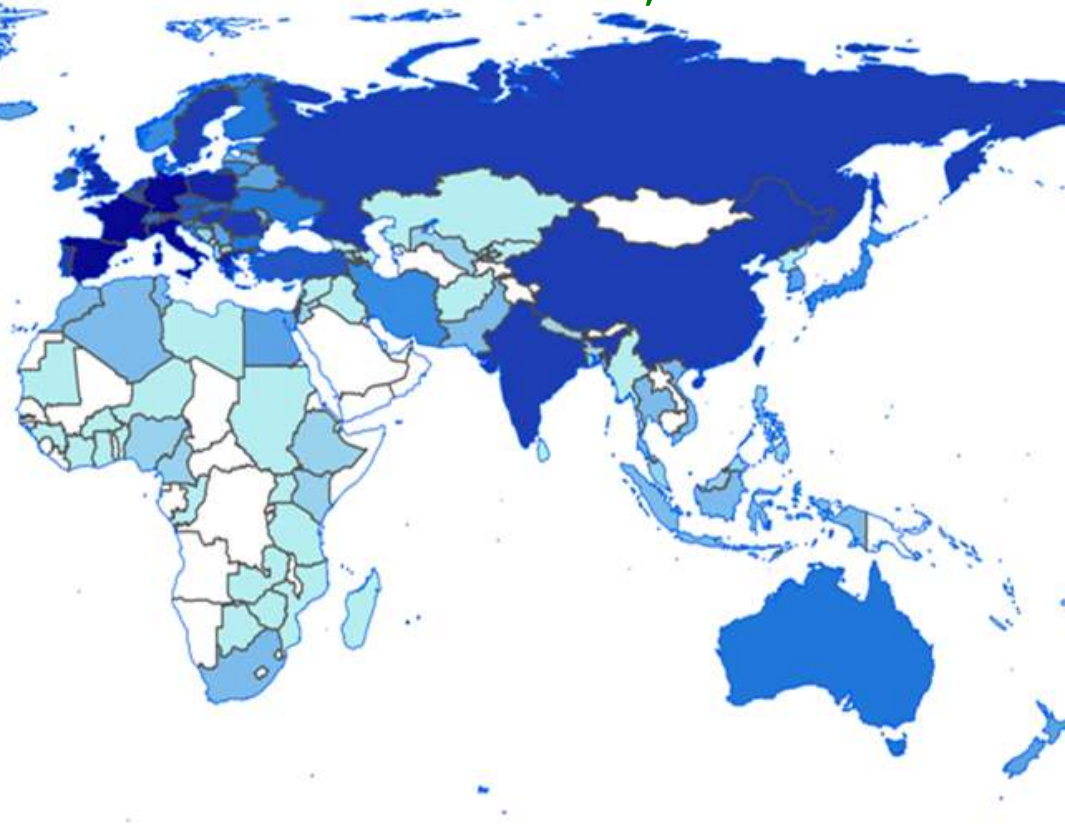
Mobility

Requirement in all projects



Global reach

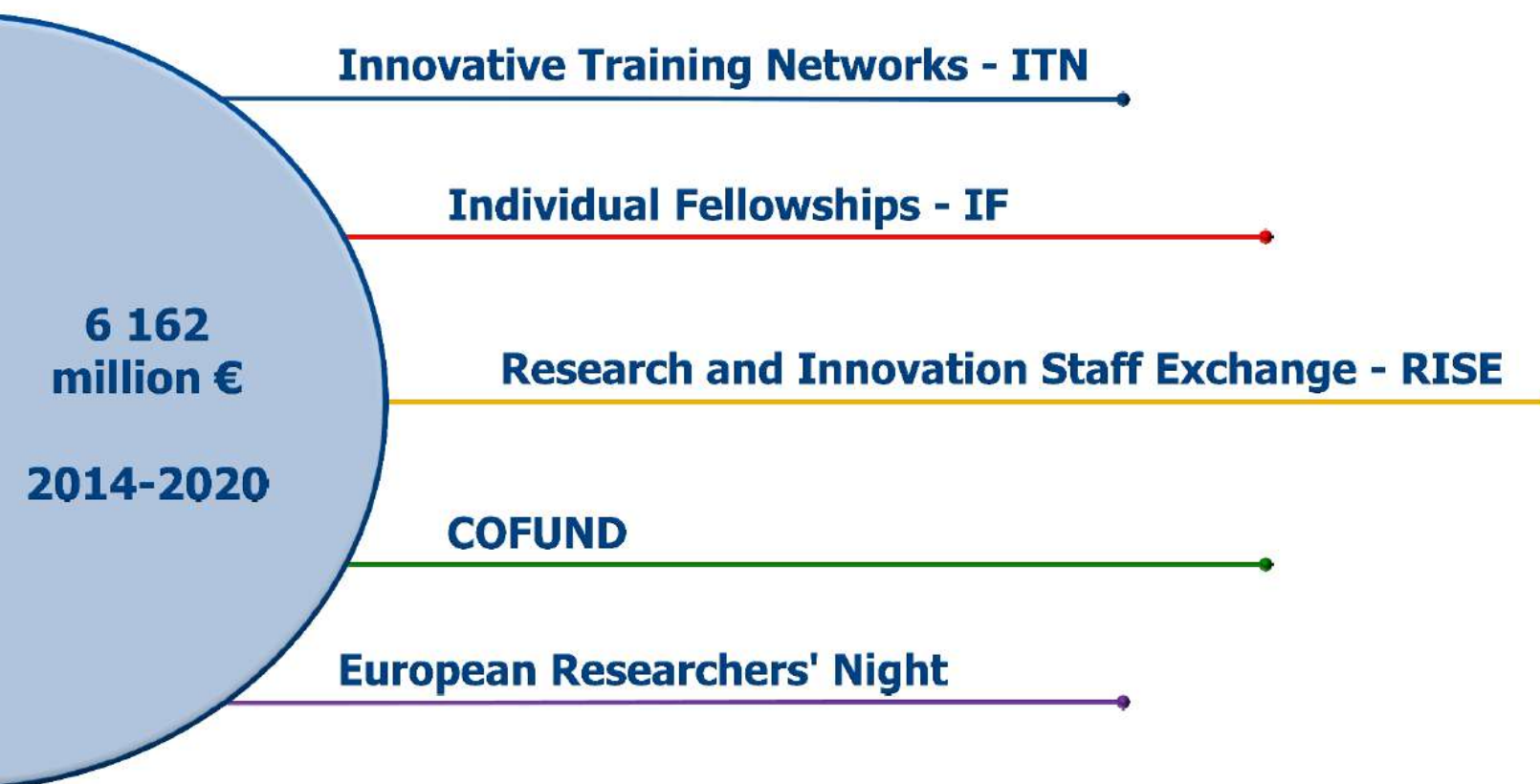
130 nationalities, 80 countries



Marie Skłodowska-Curie actions
A pocket guide
Your passport to a
successful research career



Marie Skłodowska-Curie Actions





Participation of Japan in MSCA

FP7 (2007-2013)

IF – 9

ITN – 17

IRSES (**RISE**) – **49**

Total 75

Horizon 2020 so far (2014 - 2015)

IF – 1

ITN – 9

RISE – 17

Total 29

What is ERC?



European Research Council

Established by the European Commission

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

Legislation

- 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

Strategy

- 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 Grant Schemes

Starting Grants

starters
(2-7 years after PhD)
up to € 2.0 Mio
for 5 years

Consolidator Grants

consolidators
(7-12 years after PhD)
up to € 2.75 Mio
for 5 years

Advanced Grants

track-record of
significant research
achievements in the
last 10 years
up to € 3.5 Mio
for 5 years

Proof-of-Concept

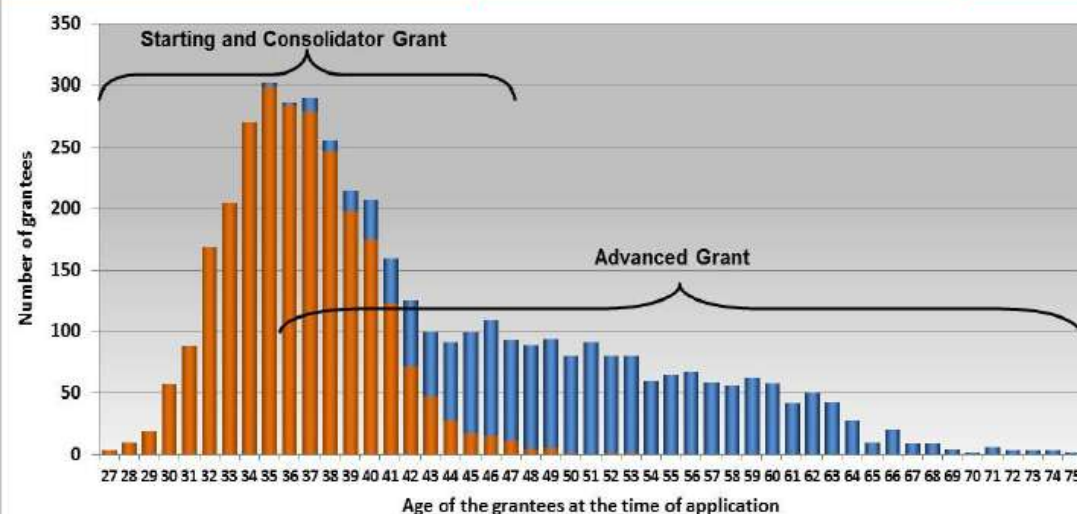
bridging gap between research - earliest
stage of marketable innovation
up to €150,000 for ERC grant holders



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

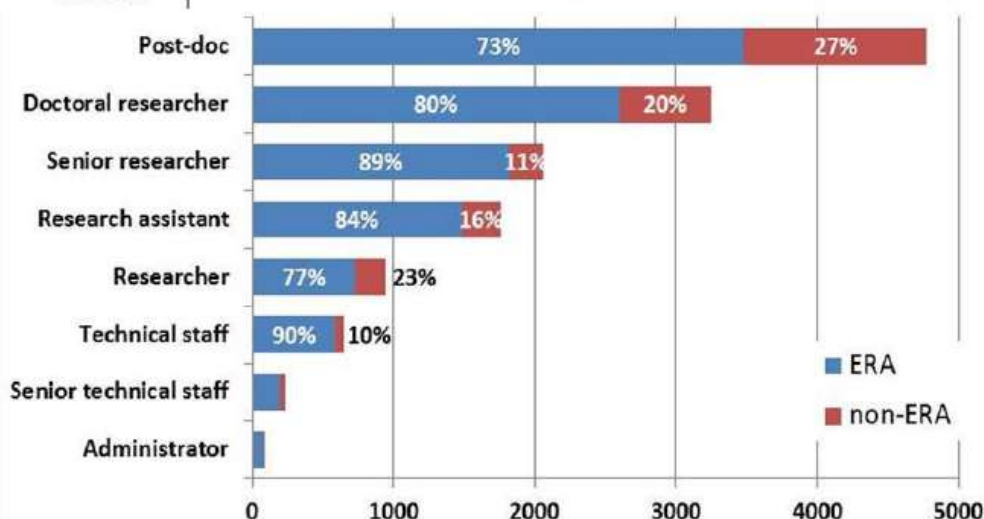
Priority to Young Scientists



+ 22 000 PhD and post-doc researchers working in ERC teams.

Two-thirds of ERC grants to early-stage Principal Investigators.

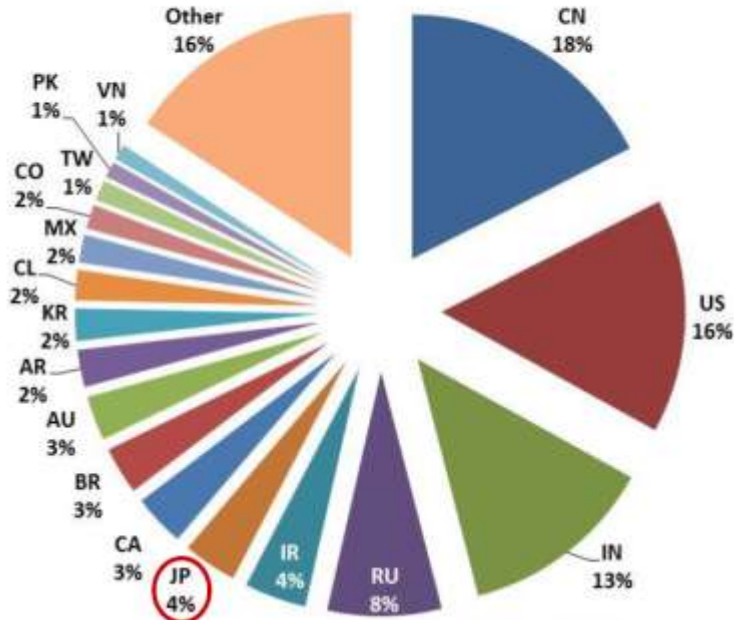
Reported team members (2015)
head count (1901 projects; almost 14,000 team members)



Nationality of ERC project teams (PIs not included)
Analysis of 1,901 Starting and Advanced Grants

EU: 71%
Assoc. Countries: 10%
non-ERA: 17%
unknown: 2%

+ 6,500 non-ERA team members
most from
China, US, India, and Russia



Non-ERA Principal Investigators	Starting and Consolidator grants	Advanced grants	Total grants
USA	102	75	177
Canada	32	9	41
Russia	25	8	33
Australia	25	4	29
India	24	2	26
Japan	18	1	19
New Zealand	9	4	13
China	12	0	12
Argentina	9	0	9
Other	37	7	44
Total	292	110	402

特別研究員に対する海外渡航支援

日本学術振興会と海外の対応機関との連携により、特別研究員を対象とした海外渡航支援を行っています。

- ◆ 研究遂行
- ◆ 研究指導委託
- ◆ 国際連携専攻履修

特別研究員は、採用期間の
半分（SPDは3分の2）まで
海外渡航が可能



詳細は以下をご覧ください：

http://www.jsps.go.jp/j-pd/pd_user-haken.html

連絡先：toku-haken@jsps.go.jp

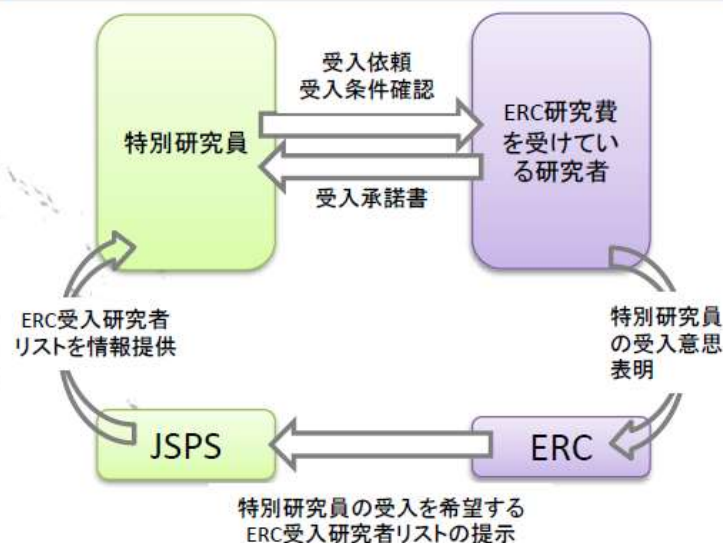


JAPAN SOCIETY FOR THE PROMOTION OF SCIENCE

日本学術振興会

ERCとの協力による特別研究員の海外渡航支援事業

- 1) 対応機関：ERC (European Research Council (欧州研究会議))
- 2) 申請資格：博士の学位を有する特別研究員
- 3) 派遣先：日本からの受入を希望するERC研究費支援を受けている研究者
- 4) 派遣時期：募集年度中に派遣開始
- 5) 支給経費：滞在費等支給内容は、各自で派遣先ご確認ください。



HORIZON 2020



<http://ec.europa.eu/research/horizon2020>

✓ **Search:**

horizon 2020 participant portal



✓ or

✓ <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/index.html>

Thank you for your attention!

Participant Portal

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

Helpdesk

<http://ec.europa.eu/research/enquiries>

National Contact Point in Japan

ncp-japan@eu-japan.gr.jp

CORDIS

http://cordis.europa.eu/projects/home_en.html

ERA-NET in Horizon 2020

http://ec.europa.eu/research/era/era-net-in-horizon-2020_en.html

Expert evaluators needed!

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/>

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