

# Collaboration with Japan

**Organisers:**

**Olga Gritsai** (University of Amsterdam)

**Yoshie Kawahito** (Osaka University)

*23rd Annual EARMA Conference Malta,  
April 24th-26th 2017*

# Programme

## **1) " Research funding landscape for Europe-Japan collaboration "**

- Yoshie Kawahito, Osaka University
- Yasuhiro Isobe, Hiroshima University
- Katsuhiko Tomita, Kobe University
- Tamaki Suzuki, Kyoto University

## **2) "JSPS programmes for Europe-Japan collaboration"**

Prof Nobuo Ueno, Japan Society for the Promotion of Science (JSPS)  
London

## **3) "JST programmes for Europe-Japan collaboration"**

Kumiko Nakayama, Deputy Director, Japan Science and Technology  
Agency (JST) Paris Office

# Discussion

- Questions to the speakers
- Practical experience of Europe-Japan collaboration (successes, difficulties, solutions)
- How to promote Europe-Japan collaboration in the future: the role of RMA's, possible further steps



# **Introducing RMAN-J: Research Manager and Administrator Network Japan**

- What can we do together?
- Forms of collaboration (information exchange, mutual learning visits, bringing together researchers and research areas (match-making); analyzing best practices)
- Possible formats



# Research funding landscape for Europe-**J**apan collaboration seen from a wider perspective

5

Yoshie KAWAHITO, Osaka University

Yasuhiro ISOBE, Hiroshima University

Katsuhiko TOMITA, Kobe University

Tamaki SUZUKI, Kyoto University

# Contents

- Growing attention to international research collaboration in Japan
- Research funding landscape for Europe-Japan collaboration
- Role of RMAs in promoting Europe-Japan research collaboration
- RMAs in Japan
- Our message to RMAs in Europe

# Increasing attention to international research collaboration in Japan

- Backgrounds
  - Growing demands on researchers to contribute to solve global issues
  - University reform led by the government
- Important national policies and initiatives
  - The 5th Science and Technology Basic Plan
  - National University Reform Plan
  - The Program for Promoting the Enhancement of Research Universities
- Expectations for RMAs in Japan to promote international research collaboration

# Research funding landscape for Europe-Japan collaboration



We are here!

How much do you know about the research funding landscape for Europe-Japan Collaboration?



# Research funding landscape for Europe-Japan collaboration

Country/ Region	Example of funding programs	Purpose	
		Mobility	Research activities
Europe	• Horizon 2020	√	√
	• Domestic funds in each country	√	√
International	• Human Frontier Science Program	√	√

Maybe you focus here...

# Research funding landscape for Europe-Japan collaboration

Country/ Region	Example of funding programs	Purpose	
		Mobility	Research activities
<div>Let's discover more options today!</div>			
Japan+ Europe	• JSPS Core-to-Core Programme	√	
	• JSPS Bilateral Programme	√	
	• JST SICORP (Bilateral/Multilateral Programme)	√	√
	• Belmont Forum	√	√
	• EU-Japan Joint Call	√	√
Europe	• Horizon 2020	√	√
	• Domestic funds in each country	√	√
International	• Human Frontier Science Program	√	√

# Research funding landscape for Europe-Japan collaboration

Country/ Region	<div>Domestic funds in Japan</div>	Purpose	
		Mobility	Research activities
Japan	• Internal funds in each university	√	√
	• <b>JSPS</b> Grants-in-Aid Scientific Research <KAKENHI>	√	√
	• <b>JSPS</b> Fellowship programmes	√	√
Japan+ Europe	• <b>JSPS</b> Core-to-Core Programme	√	
	• <b>JSPS</b> Bilateral Programme	√	
	• <b>JST</b> SICORP (Bilateral/Multilateral Programme)	√	√
	• Belmont Forum	√	√
	• EU-Japan Joint Call	√	√
Europe	• Horizon 2020	√	√
	• Domestic funds in each country	√	√
International	• Human Frontier Science Program	√	√

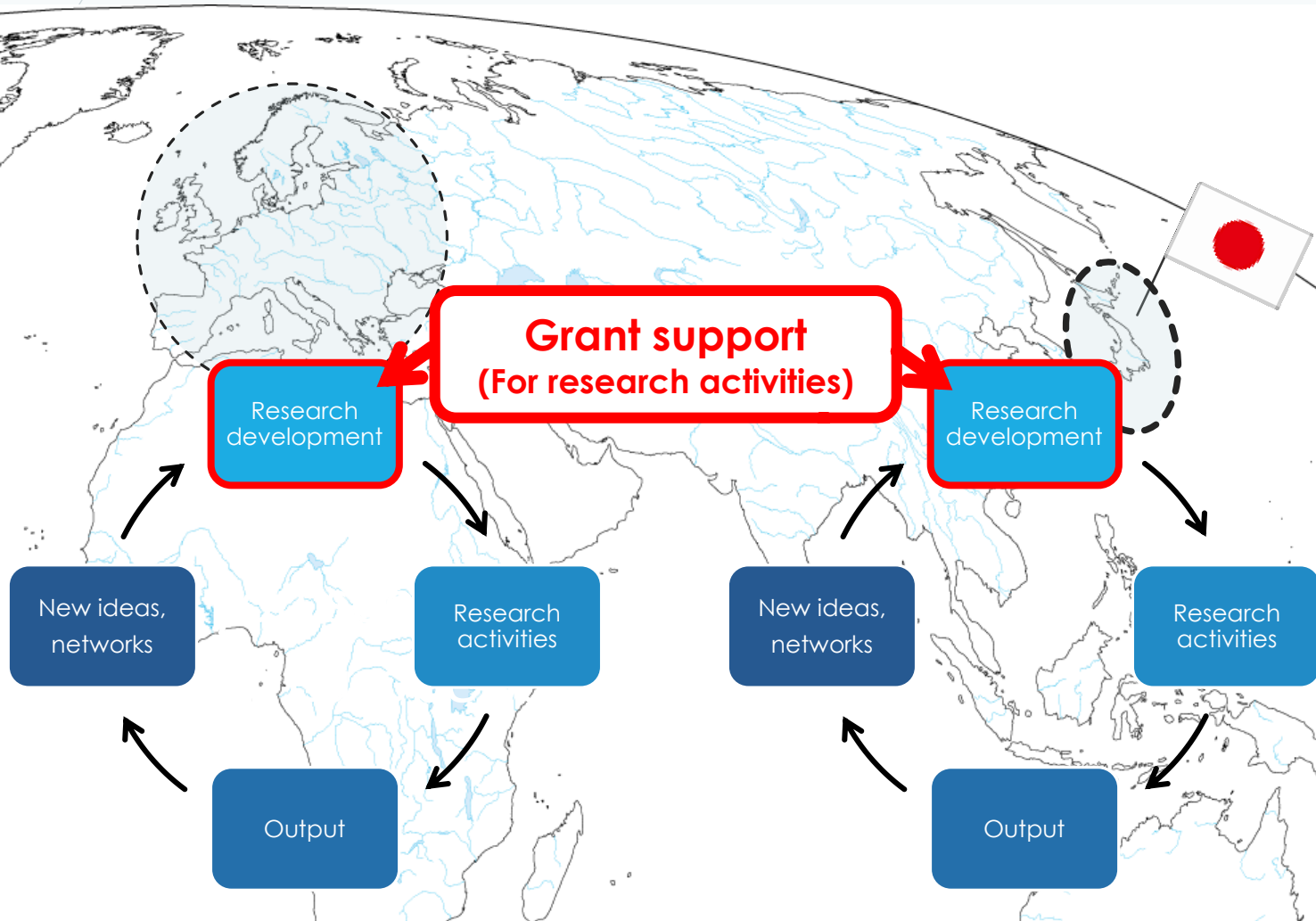
# Research funding landscape for Europe-Japan collaboration

Country/ Region	Example of funding programs	Purpose	
		Mobility	Research activities
Japan	• Internal funds in each university		
	• <b>JSPS</b> Grants-in-Aid Scientific Research (S/R/K/NP)	✓	✓
	• <b>JSPS</b> Fellowship programmes	✓	✓
Japan+ Europe	• <b>JSPS</b> Core-to-Core Programme	✓	
	• <b>JSPS</b> Bilateral Programme	✓	
	• <b>JST</b> SICORP (Bilateral/Multilateral Programme)	✓	✓
	• Belmont Forum	✓	✓
	• EU-Japan Joint Call	✓	✓
Europe	• Horizon 2020	✓	✓
	• Domestic funds in each country	✓	✓
International	• Human Frontier Science Program	✓	✓

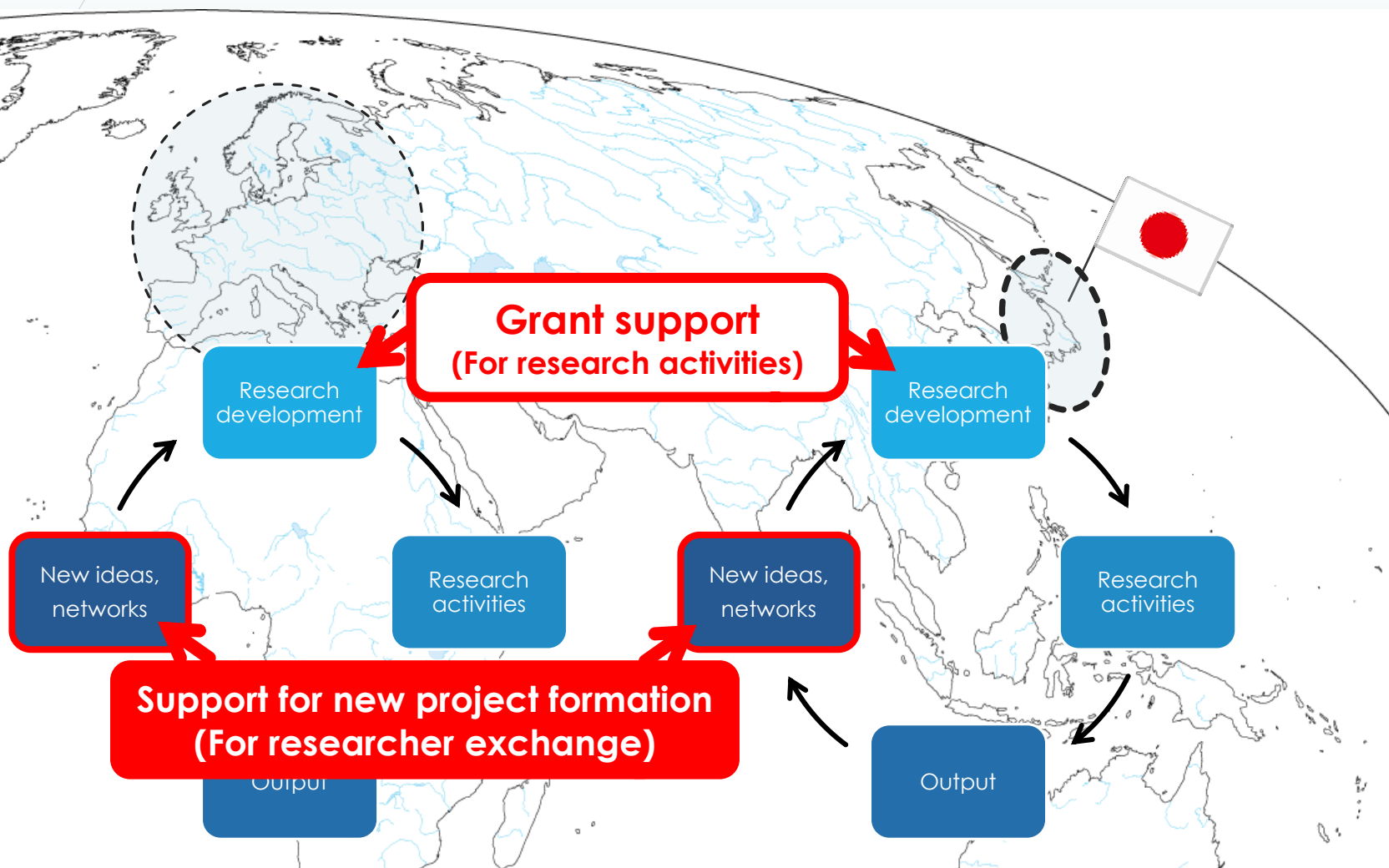
**Important for new projects!**



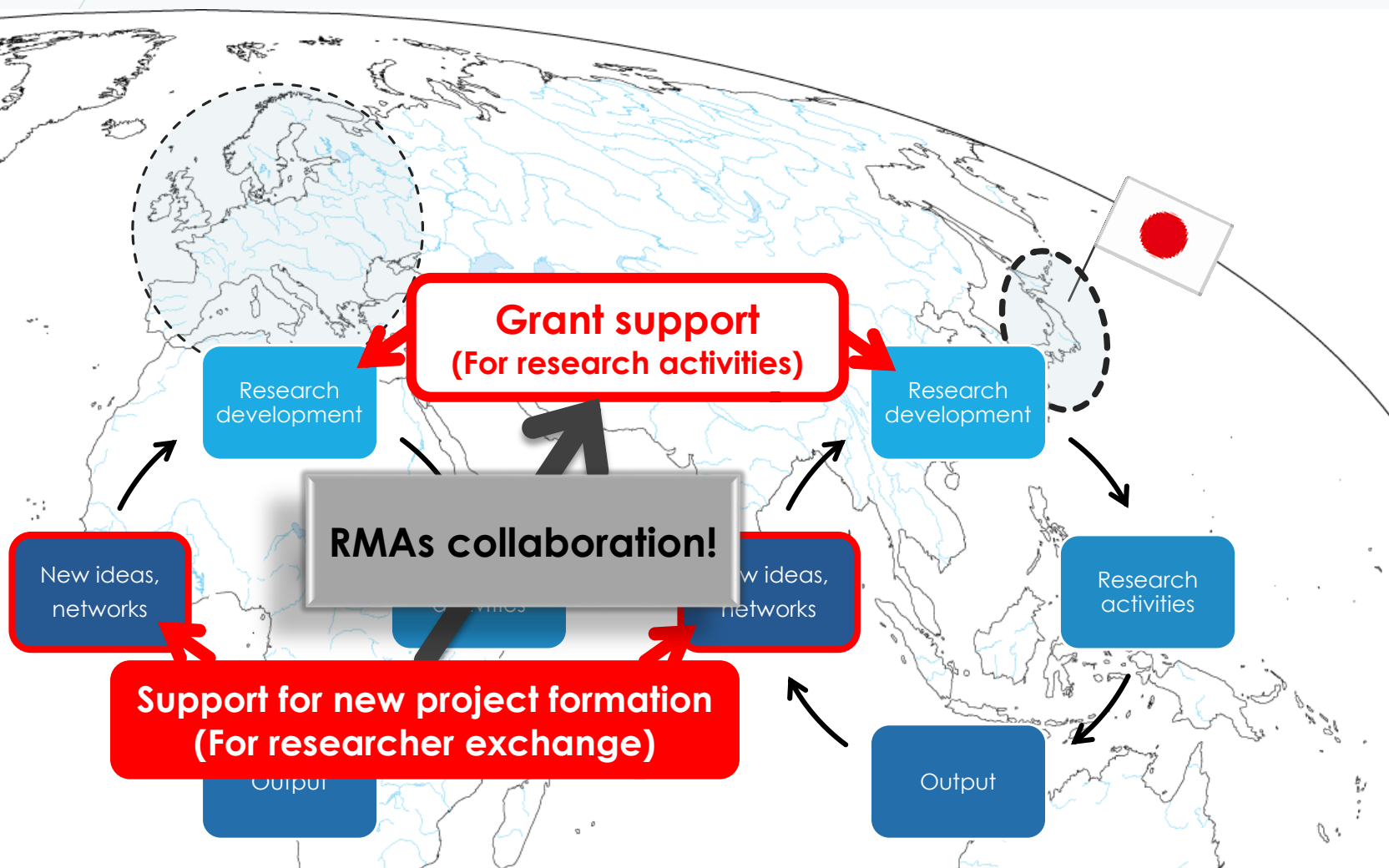
# Role of RMAs to promote Europe-Japan collaboration



# Role of RMAs to promote Europe-Japan collaboration



# Role of RMAs to promote Europe-Japan collaboration

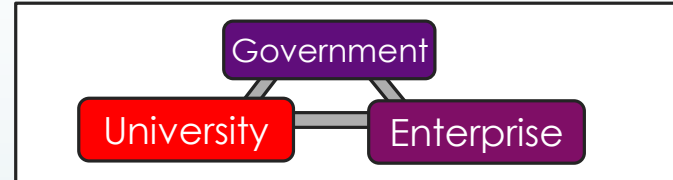


# Cases of four Japanese Universities to promote Europe-Japan collaboration



Hiroshima Univ.

Crossover approach for multiple connections



Plan & coordination among the three parties

Kobe Univ.



Kyoto Univ.

Joint symposium & internal fund for new project formation



Searching for research partners & RMAs exchange

Osaka Univ.



# RMAs in Japan

(since 2011,  
referred to as **URAs:**  
**University  
Research  
Administrators**)

Number of RMAs

700+

Engaged in:

- Grant support
- Project management
- University planning

2011

MEXT's Program for the  
Development of Systems  
to Foster and Secure  
Research Administrators

2013

MEXT's Program for  
Promoting the  
Enhancement of  
Research Universities

2015

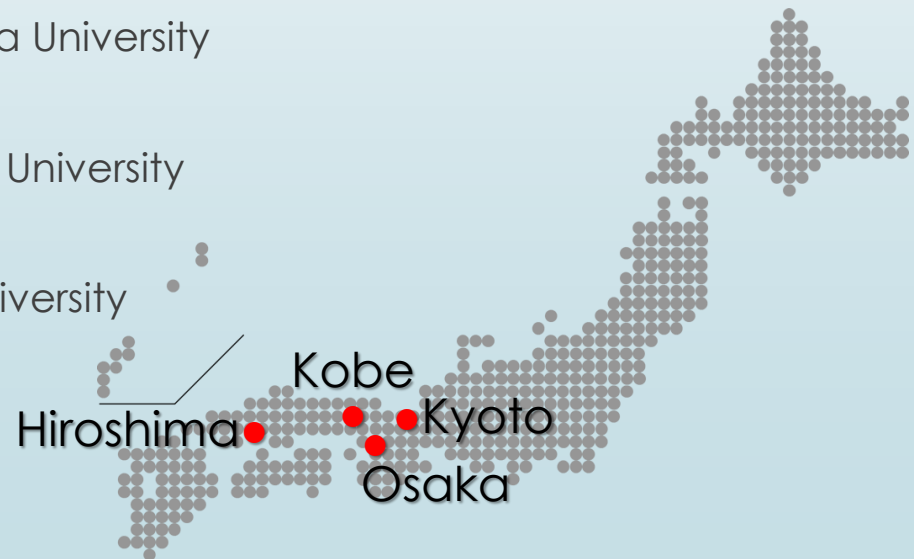
Research Manager  
and Administrator  
Network Japan  
(**RMAN-J**) formed

2016

**RMAN-J**  
joined  
INORMS

Thank you for your attention.  
Let's **work together** to promote  
research collaboration between  
Europe and Japan!

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- Katsuhiko TOMITA, Kobe University  
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- Tamaki SUZUKI, Kyoto University  
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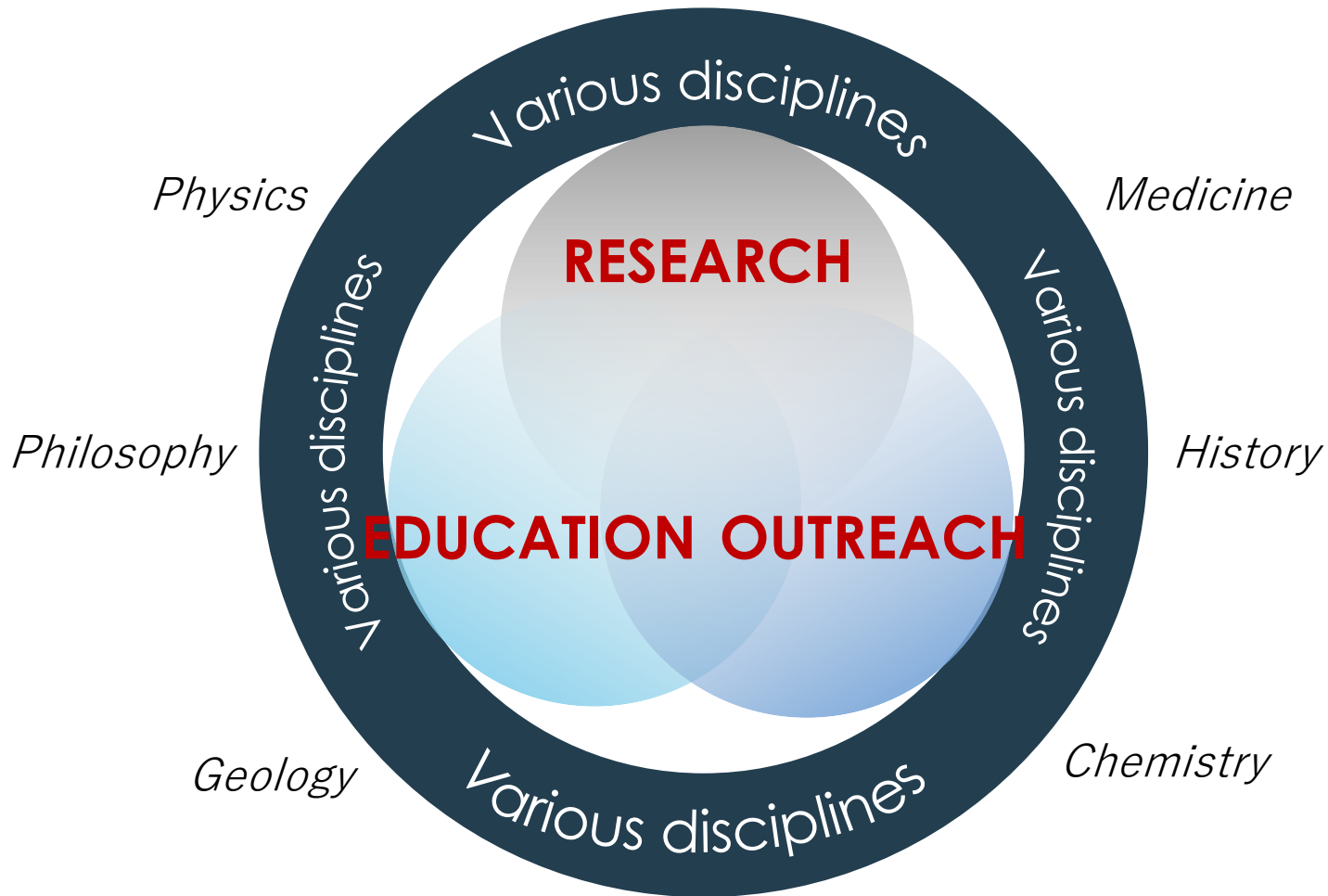


# Additional Information 01

## Case of Hiroshima University

Exchanges between the two universities date back to the early 1950s. Hiroshima University's founding President sent a letter to a number of universities around the world, asking them to help Hiroshima University resurge from the A-bomb ashes. University of Muenster was one of the universities which kindly and swiftly responded to the President's request by sending HU seeds and plants for its campus reconstruction.

*Education*



**Crossover approach for multiple collaborations**



## Major Relationships between University of Muenster (WWU) and Hiroshima University (HU) Developed over the Past Five Years

Level	Projects / Events / Agreements	Disciplines	Faculties / Schools / Offices involved		Related university missions			Used / Planned Funding		Remarks
			Muenster (WWU)	Hiroshima (HU)	Research	Education	Outreach	Germany-side	Japan-side	
Institutional	Joint proposal for Horizon 2020 "Memories of War" (2015)	History; Anthropology; Geology; Education; International Relations	Faculty of History & Philosophy; Innovation Office; (European Research Services GmbH)	Graduate School of (GS.) Letters; GS. Integrated Arts and Sciences; GS. Education; GS. Int'l Development and Cooperation; <b>Research Planning Office (RPO)</b>	○		○	(EU: <i>Horizon 2020</i> )	(?)	Unfortunately, this joint proposal was unsuccessful, but the high scores given to the proposal have encouraged the joint-proposal consortium members to continue exploring collaboration possibilities in similar topics. HU's research managers and administrators (RMAs) helped form researcher group interested in this topic at HU.
	"Recognition of History" (2015)	Performing Arts; History	The Archives; Innovation Office	Library; PR Group; Int'l Ex. Group: <b>RPO</b>			○	WWU	HU	This performing art event, featuring A-bombed tiles earlier sent to WWU by HU, was held at WWU.
	University-wide MOU (since 2017)	Various	Int'l Office	Int'l Ex. Group: <b>RPO</b>	○	○	○	not specified	not specified	HU's RMAs facilitated the communication between the two international offices as well as between HU's faculty members and administrative staff in charge of MOUs.
	(Meetings with DFG Japan Office)	Various		<b>RPO</b>	○			DFG		HU's RMAs set up on-campus meetings where HU's faculty members interested in collaborating with WWU can discuss the possible funding opportunities with DFG representatives.
	Ideas Mining Workshop for HU's PEACE Program (since 2017)	Various	Innovation Office	Int'l Ex. Group: <b>RPO</b>		○	○	WWU (& EU?)	MEXT: <i>Re-Inventing Japan</i>	The idea of including this workshop, developed by WWU's Innovation Office since 2003, in HU's PEACE Program's proposal to MEXT was originally presented by HU's RMAs. The workshop is planned to be deployed in the PEACE Program's partner institutions in Southeast Asia.
Departmental	Departmental MOU (since 2012)	Physics	Faculty of Physics	HiSOR: <b>RPO</b>	○	○	○	not specified	not specified	HU's RMAs have been involved in the discussion to explore the two universities' possible collaborations in a multidisciplinary (including physics) proposal for a major research funding program by MEXT.
	Departmental MOU (since 2012)	Philosophy	Faculty of History & Philosophy	GS. Letters: <b>RPO</b>	○	○	○	not specified	not specified	HU's RMAs have joined several meetings (both face-to-face and virtual) of the two university's faculty members in history and/or philosophy to discuss the future collaborations.
	"Mathematical Bridge Calendar" (since 2017)	Education	Innovation Office	GS. Education: <b>RPO</b>	○	○	○	(Local govt.)	(Local govt.)	WWU's popular project of creating a calendar with local bridges and mathematical questions about those bridges is being expanded to a global project, including HU and another 11 universities around the world. HU's RMAs has got the Graduate School of Education connected to this project and are now working on a proposal for the local government's funding.
Individual	(Long-term friendship and academic collaborations)	Chemistry	Faculty of Chemistry & Pharmacy	GS. Science; GS. Engineering: <b>RPO</b>	○	○				In 2014, this individual relationship ignited HU's RMAs involvement in the recent development of the two universities' intense collaborations. HU's RMAs have been involved in the discussion for creating a new graduate student exchange program between the two universities.
	"Muenster-Hiroshima 2020 (entitled tentatively)"	Various	Vice Rector for Int'l Affairs (also professor of Philosophy)	<b>RPO</b>	○	○	○	(?)	(?)	This project recently proposed by WWU's Vice Rector is to promote the local community/government involvement and to academically and culturally commemorate the 75th anniversary since the end of WW II and A-bombing both in Muenster and Hiroshima a throughout Year 2020.
	HU's presidential visit (May 2017)	Medicine	Int'l Office; Faculty of Medicine; University Hospital	Int'l Ex. Group: <b>RPO</b>	?	?	?		HU	RMAs have been involved in the appointment-making for this presidential visit. As HU's president is a medical doctor, the visit is likely to include medical related meetings.

### Abbreviations:

University of Muenster (Westfälische Wilhelms-Universität): WWU / Hiroshima University: HU / Memorandum of Understanding: MOU / Graduate School: GS / Research Managers and Administrators: RMAs / Research Planning Office: RPO (most RMAs at HU belong to this office) / Hiroshima Synchrotron Radiation Center: HiSOR / German Research Foundation (Deutsche Forschungsgemeinschaft): DFG / Japanese Ministry of Education, Culture, Sports, Science, and Technology: MEXT / Project of Effective Action with CLMV's (Cambodia, Laos, Myanmar, and Vietnam) Education: PEACE

## Additional Information 02

### Case of Kobe University

# Kobe Smart City Project by Kobe City Government and Kobe University

April 26<sup>th</sup> 2017

Katsuhiko TOMITA

([tomita.k@port.kobe-u.ac.jp](mailto:tomita.k@port.kobe-u.ac.jp))

# Kobe City



**5th largest city in Japan  
population of 1,540,000**



hot spring



night view



Kobe beef



# Basic policies of the Japanese government & Kobe Smart City Project

## ■ Realization of a Super Smart Society

Drastic transformation of social and economic structures

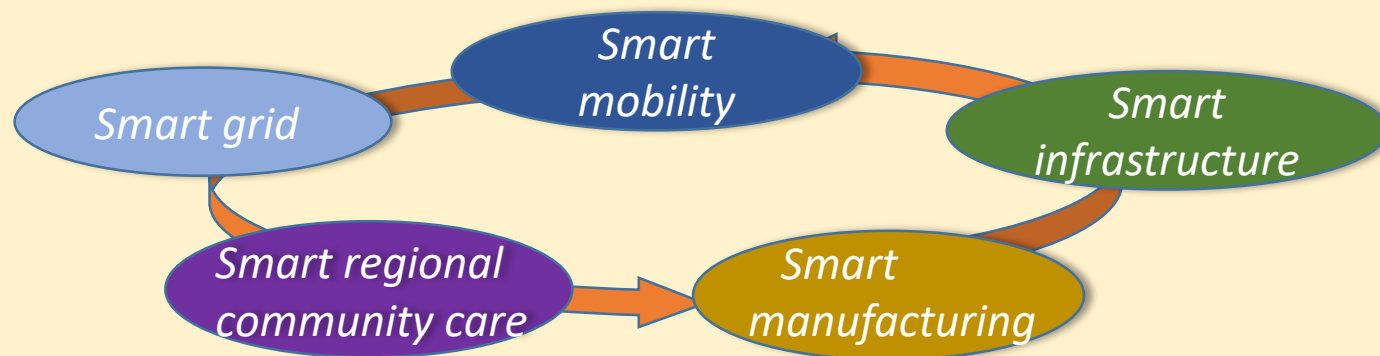
Increasingly complexity of global issues

Increase of serious problems in cities

Resolution by realizing a **Super Smart Society** (⇒ Society 5.0)

(1.0: Hunting Society ⇒ 2.0: Agrarian Society ⇒ 3.0: Industrial Society ⇒ 4.0: Information Society)

### Super Smart Society [Government initiative]



Launched in 2015

### Kobe Smart City Project [Kobe City initiative]

<my role as RMA is total project coordination>

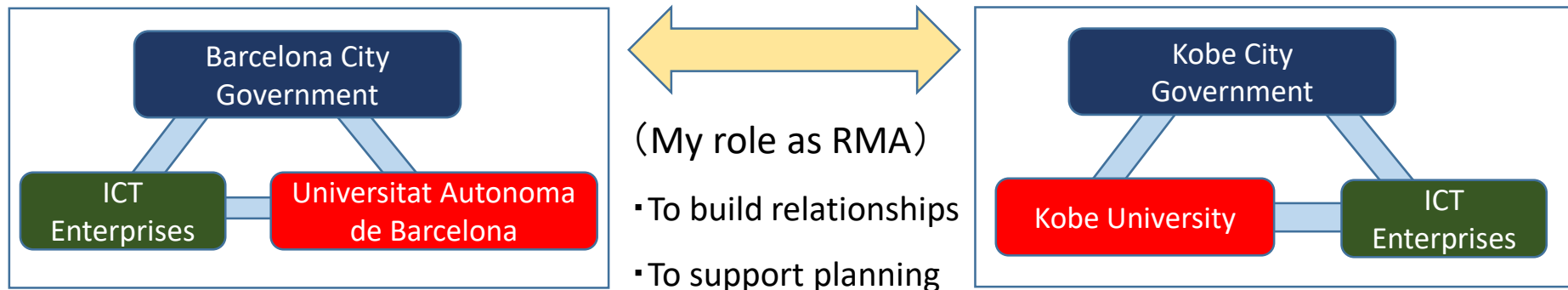
# The Kobe Smart City Project: international aspects

## <My aim>

The active promotion of the Kobe Smart City Project in order to collaborate in advanced areas concerning Smart Cities in the EU

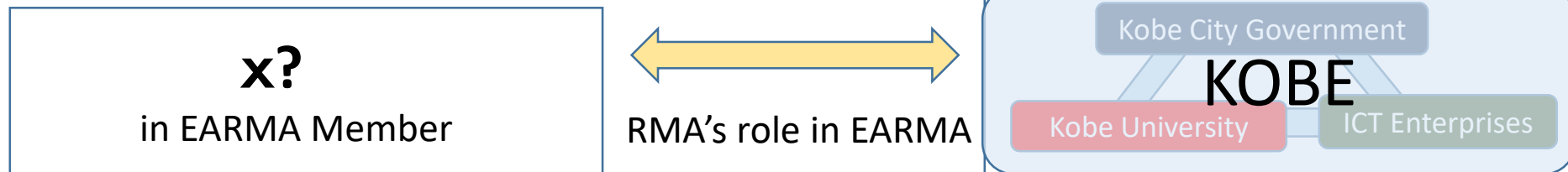
## <2016 (past)>

- Mutual exchange programs between **Barcelona** and **Kobe**
  - ① Sharing Best Practices to promote Smart Cities
  - ② Workshop on effective utilization of governmental open data



## <2017~ (from now on)>

- Collaboration to create a mutual exchange program between **x?** and **Kobe**



# Promotion of Information Technology

*Kobe City × Barcelona City*

*Open data Visualization Workshop*

***“World Data Viz Challenge 2016”***



United Nations  
Educational, Scientific and  
Cultural Organization

City of Design  
**KOBE**

Member of the UNESCO  
Creative Cities Network  
since 2008



Ajuntament de  
**Barcelona**

- ① Fostering an innovative kind of workforce
- ② Creating open data case studies



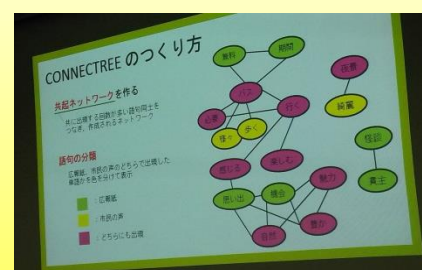
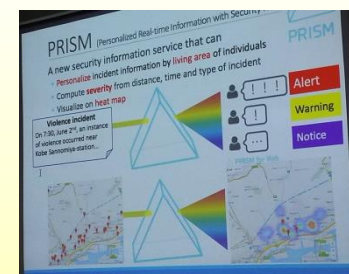
# Promotion of Information Technology



1st Stage  
June @Barcelona



2nd Stage  
October @Kobe





# Promotion of Information Technology

## *New Partnership with the Sentilo Community*

sētilo Home News About Community Contact



### We welcome Kobe as a new Sentilo supporter

Posted on August 29, 2016

We're very happy that Kobe Municipality, in Japan, has joined the Sentilo community as a new supporter.

Kobe is the sixth-largest city in Japan and is the capital city of Hyogo Prefecture. With a population around 1.5 million, the city is part of the Keihanshin metropolitan area along with Osaka and Kyoto.

Kobe representatives state, about joining the Sentilo Community: "We are glad to participate in the Sentilo community as supporters. Kobe is promoting city development by utilizing ICT, and we can learn a lot of things from the case of Sentilo of Barcelona City. Now, we are considering how we can utilize Sentilo for our city development, and we really appreciate if we continue to exchange information in each other."

Kobe is considered one of the most smart cities in Asia, with programs intended to green their building stock or to transform its municipal water and waste management practices.

Kobe Municipality website:

<http://www.city.kobe.lg.jp/foreign/english/>

sētilo Home News About Community Contact



### Supporters

Sentilo Supporters are cities, individuals or organizations who have declared their support to the project, who intend to be involved in the community in the future or who simply wish to be Sentilo's friends. Supporters must express and/or demonstrate their interest in Sentilo through adhesion to the Sentilo community.

#### Cities



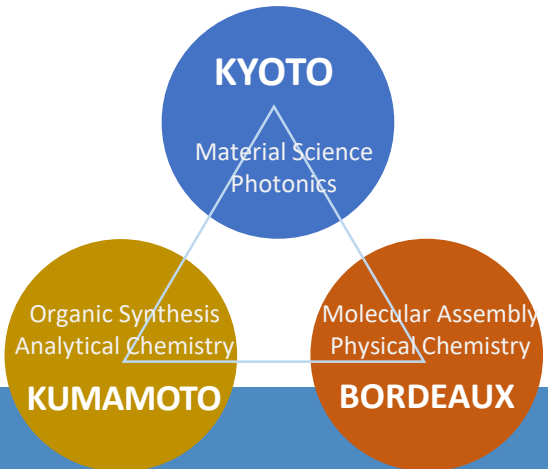
## Additional Information 03

### Case of Kyoto University



# Kyoto University; Joint Symposium and Internal Fund for new Project Formation

- Model on the KU-Bordeaux collaboration on the Material Science Field



RMA support from both Kyoto (KURA) and Europe (KU-European Center)



International Fund

**CNRS-Laboratoire International Associe (LIA)**  
"Chiral Nanoobjects for Photonic Application"  
(2015-2019, Bordeaux-KU-KUM)

**Erasmus+ International Student Exchange**  
(2016-2018, BD-KU)

Binational Fund  
(Japan-Europe)

**JSPS International Joint Research Program**  
(2013-2015, KU-BD ) (Prof. Sagawa, KU)

**JST-SICORPS**  
"Development of optically active flexible materials based on molecular assembly-templated chiral hybrid nanostructures"  
(2015-2018, KUM-KU-BD )  
(Prof. Ihara, KUM)

KU-Internal Support



**1<sup>st</sup> Kyoto-Bordeaux Symposium**  
May 5-6, 2014, Bordeaux, 11 Research Topics

**SPIRITS (2014-2016)**  
KU Supporting Program for Interaction-based Initiative Team studies (Prof. Fukami, KU)



**2nd Kyoto-Bordeaux Symposium**  
May 21-23, 2015, Kyoto, 8 Research Topics

Concluded Student Exchange Agreement; KU-BD

**Double Degree Program For Ph.D from 2017**

Preliminary phase (matching)

Project Develop Phase

Project-Driven

## Additional Information 04

### Case of Osaka University

# Osaka University (OU)



## National Research University

11 departments, 16 graduate schools

23 research institutes & centers, 2 hospitals, 4 libraries

3,196 faculty,

3,249 researchers, administrative and medical staff

23,371 students

Numbers are as of May 1<sup>st</sup>, 2016

No.63 in QS World University Ranking 2016/2017

No.18 in the TR the World's **Most Innovative Universities** 2015

No.5 **Immunology**, No.1 **Biology & Biochemistry**,

No.2 **Chemistry**, No.1 **Plant & Animal Science**

on TR's list of "The World's Most Influential Scientific Minds" for 2016

**No.1 in Japan**

# #DOITALL

## Osaka University at a Glance (as of 2017)

### 11 Schools

Letters  
Human Sciences  
Foreign Studies  
Law  
Economics  
Science  
Medicine  
Dentistry  
Pharmaceutical Sciences  
Engineering  
Engineering Science

### 16 Graduate Schools

Letters  
Human Sciences  
Law and Politics  
Economics  
Science  
Medicine  
Dentistry  
Pharmaceutical Sciences  
Engineering  
Engineering Science  
Language and Culture  
International Public Policy  
Information Science and Technology  
Frontier Biosciences  
Law School  
Child Development

### 4 University Libraries

Main Library  
Life Sciences Library  
Science and Engineering Library  
International Studies Library

### 2 University Hospitals

Osaka University Hospital  
Osaka University Dental Hospital

### Administration Bureau

### Osaka University Nakanoshima Center

### Research Institutes, Centers and Facilities

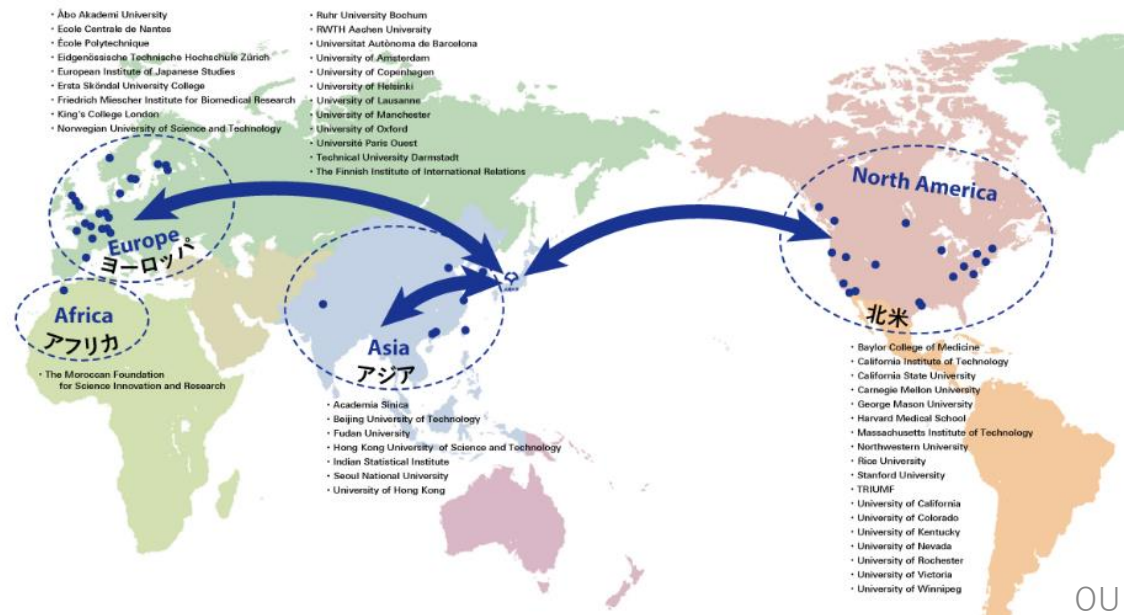
Research Institute for Microbial Diseases  
The Institute of Scientific and Industrial Research  
Institute for Protein Research  
Institute of Social and Economic Research  
Joining and Welding Research Institute  
Low Temperature Center  
Research Center for Ultra-High Voltage Electron Microscopy  
Radioisotope Research Center  
Research Center for Environmental Preservation  
Center for International Education and Exchange  
International Center for Biotechnology  
Research Center for Solar Energy Chemistry  
The Museum of Osaka University  
Health Care Center  
Global Center for Medical Engineering and Informatics  
Center for Mathematical Modeling and Data Science  
Center for Scientific Instrument Renovation and Manufacturing Support  
Center for Japanese Language and Culture  
Institute for NanoScience Design  
Intellectual Property Center  
Research Center for Nuclear Physics  
Cybermedia Center  
Institute of Laser Engineering



# Example of internal fund for international collaboration

## International Joint Research Promotion Program

- This program is a first step toward the establishment of international joint labs in all research fields.
- The Visiting Researcher (overseas researcher) must conduct research at Osaka University during at least one month in total each year.
- Max. 3 years
- 60,000\$/FY



# Cases of collaboration with European RMAs and OU



RMAs in Aarhus University visited OU in May 2014

- Seminar on RMA system
- Training program on grant writing



RMAs in UvA visited OU in February 2016

- Workshop on International collaboration for RMAs
- Joint-research-potentials mining

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Research Management and Administration Section,  
Office of Management and Planning, Osaka University





# J S P S

(Japan Society for the Promotion of Science)

- JSPS Programmes for Japan-Europe collaboration -



**Nobuo Ueno**

Director  
JSPS London

**For EARMA**  
**26 April 2017**

# Introduction of JSPS

## Japan Society for the Promotion of Science

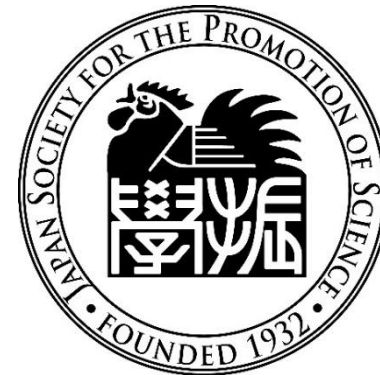
### 日本学術振興会

The Japanese largest funding agency

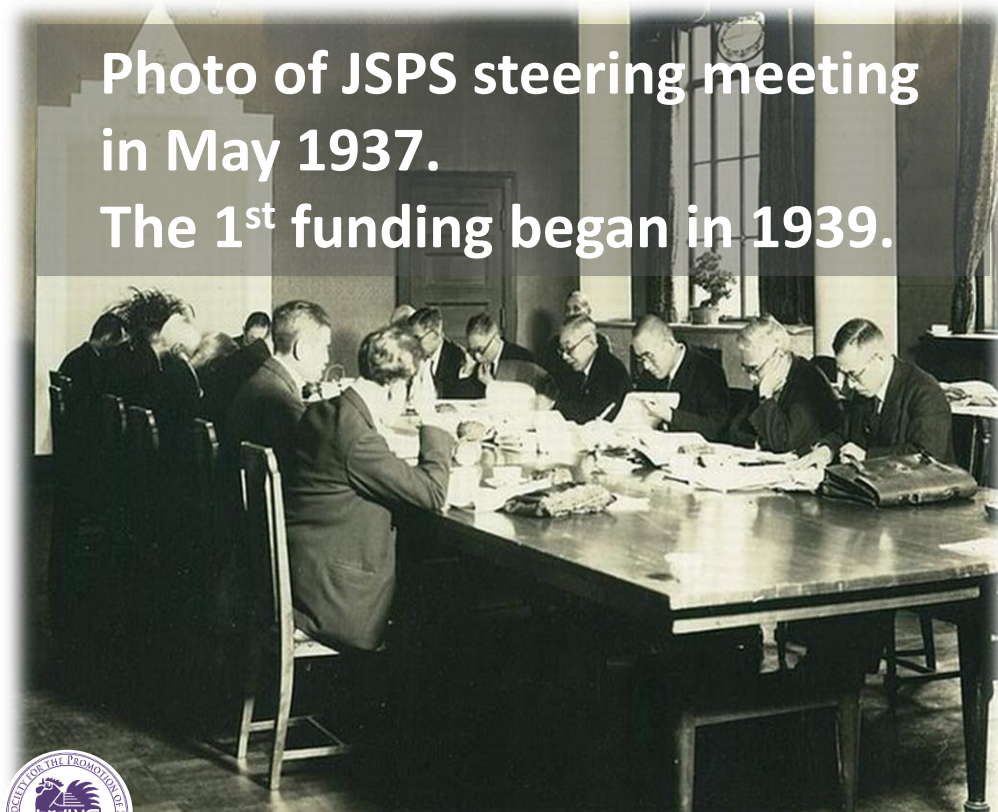
Photo of JSPS steering meeting  
in May 1937.

The 1<sup>st</sup> funding began in 1939.

- Established through an endowment by Emperor Showa in 1932



Rooster:  
Harbinger of new knowledge  
that promises a brilliant future  
for humankind.



# Funding Agency for “Science”

- **JSPS idea**

We support *curiosity-driven* researches in **natural/social sciences, engineering and humanities**. No priority field.

- **JSPS funds**

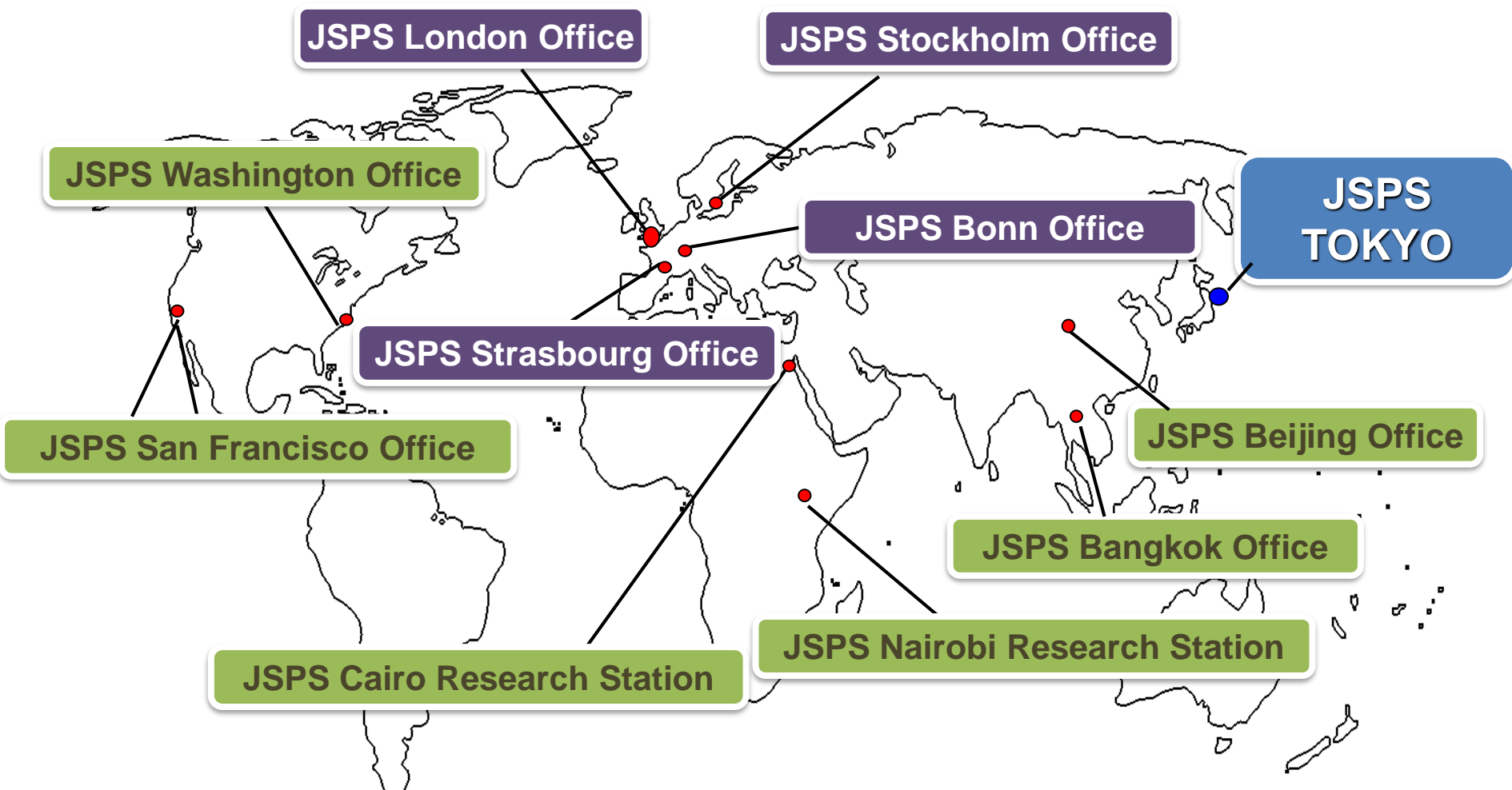
- Grant to research projects:  
(Grant-in-Aid, “KAKENHI”: €2,000,000,000/70,000 projects)
  - For researchers at Japanese Institutions, regardless of their nationality.
- Fellowships: 6,000 Japanese pre-/post-docs.
- International collaborations: Bi- & multi-lateral etc.

Mobility by International programmes (per year):  
**10,000 researchers** from pre-docs to professors

# What we do

- **Support for research initiatives**  
Competitive research funding: Grants-in-Aid
- **Fostering the next generation of researchers**  
Research fellowships for young scientists
- **Support for university reform**  
Joint programs with MEXT
- **International collaborations**  
Collaborations with overseas partners

# Four JSPS Overseas in Europe, 10 in the world

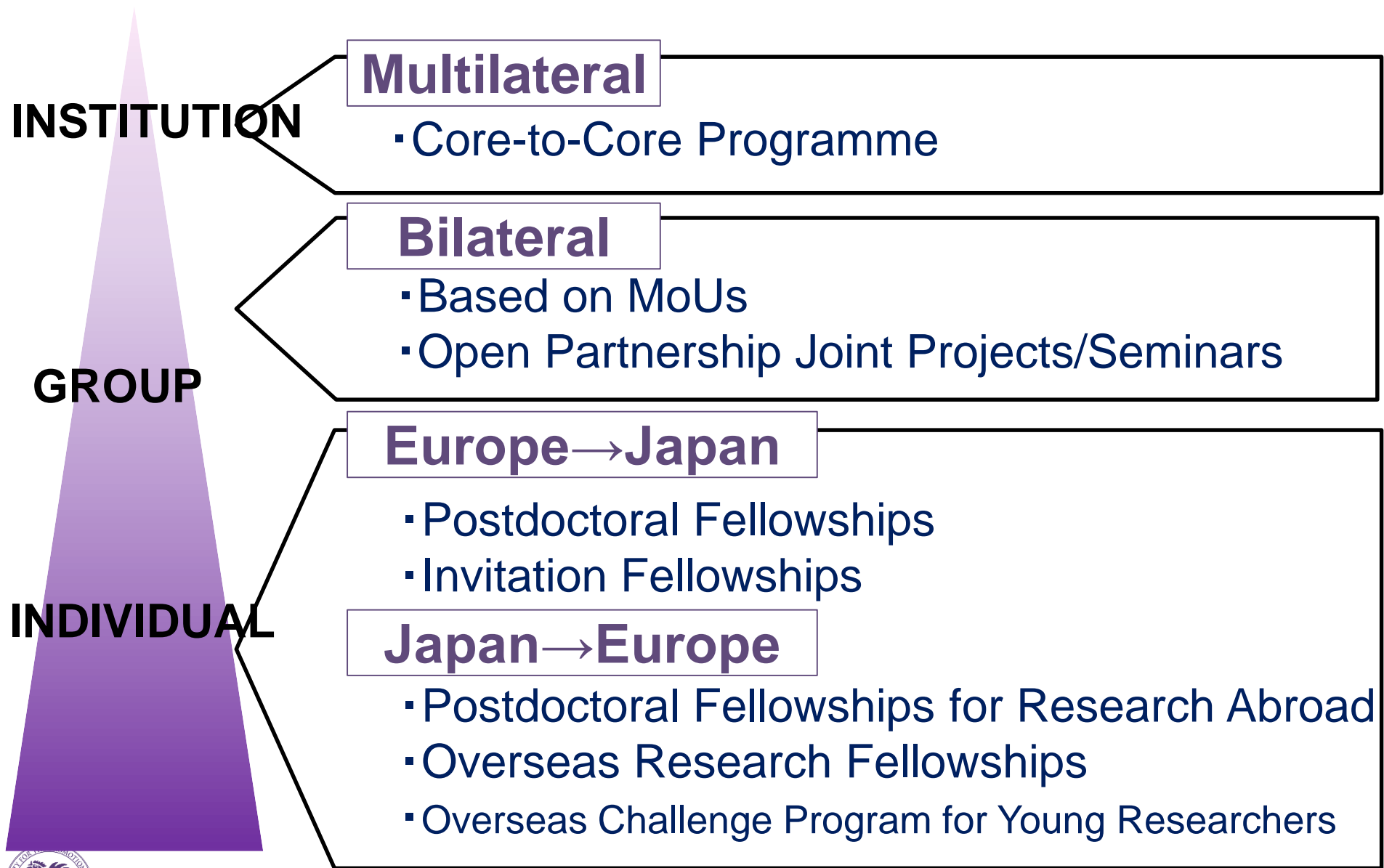


## Number of Researchers by JSPS International Programmes (FY2015)

Europe → Japan	1,368	Japan → Europe	2,168
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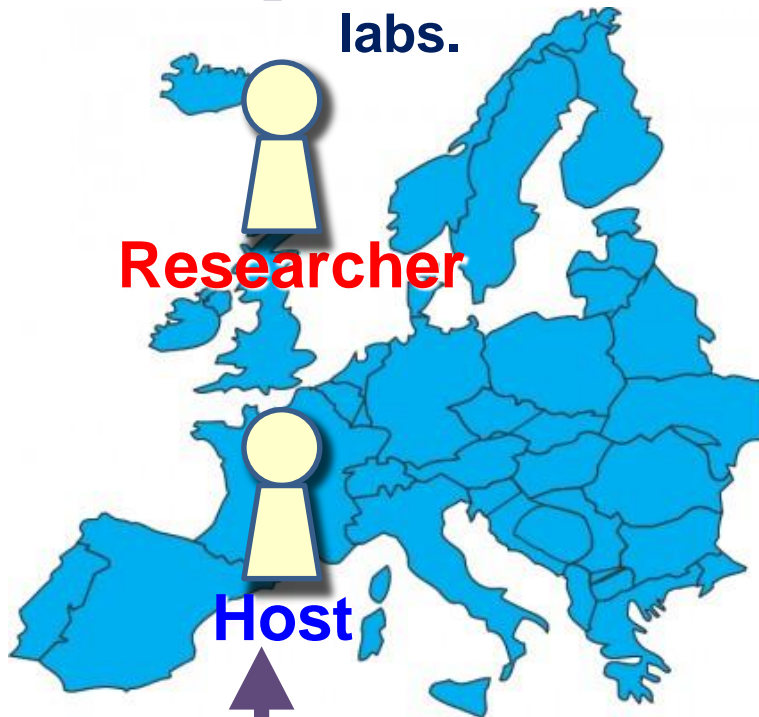
# International Collaboration Programmes



# International Collaboration Programmes

Core-to-Core Programme, Bilateral Programme,  
Fellowships

Visiting researchers are expected to do  
collaborative works in host researchers'  
labs.



# International Collaboration Programmes

Europe → Japan

Postdoctoral Fellowships, Invitation Fellowships

*M.phil*

*PhD*



*Postdoc*  
(6 years after PhD)

*Mid-career*

*Professor*

*Distinguished  
Professor*

## Postdoctoral Fellowships

(Standard)  
1 - 2 years

(Short-term)  
1 - 12 months

## Invitation fellowships

(Long-Term)  
61 days –  
10 months

(Short-Term)  
14 - 60 days

(Short-Term S)  
7 - 30 days

**Summer  
Programme**

2 months

- Support all research fields
- 633 European researchers to Japan in FY2015

# International Collaboration Programmes

Europe → Japan

Postdoctoral Fellowships, Invitation Fellowships



- Eligibility
- Duration etc.

# International Collaboration Programmes

## Japan → Europe Fellowship programmes

*PhD*



*Postdoc*

*Mid-career*

*Professor*

### Overseas Research Fellowships

2 years, 142 awardees  
to Europe

### KAKENHI “Fostering Joint International Research”

6 – 12 months,  
400 awardees

### Research Fellowships for Young Scientists

2 - 3 years, 5708 awardees

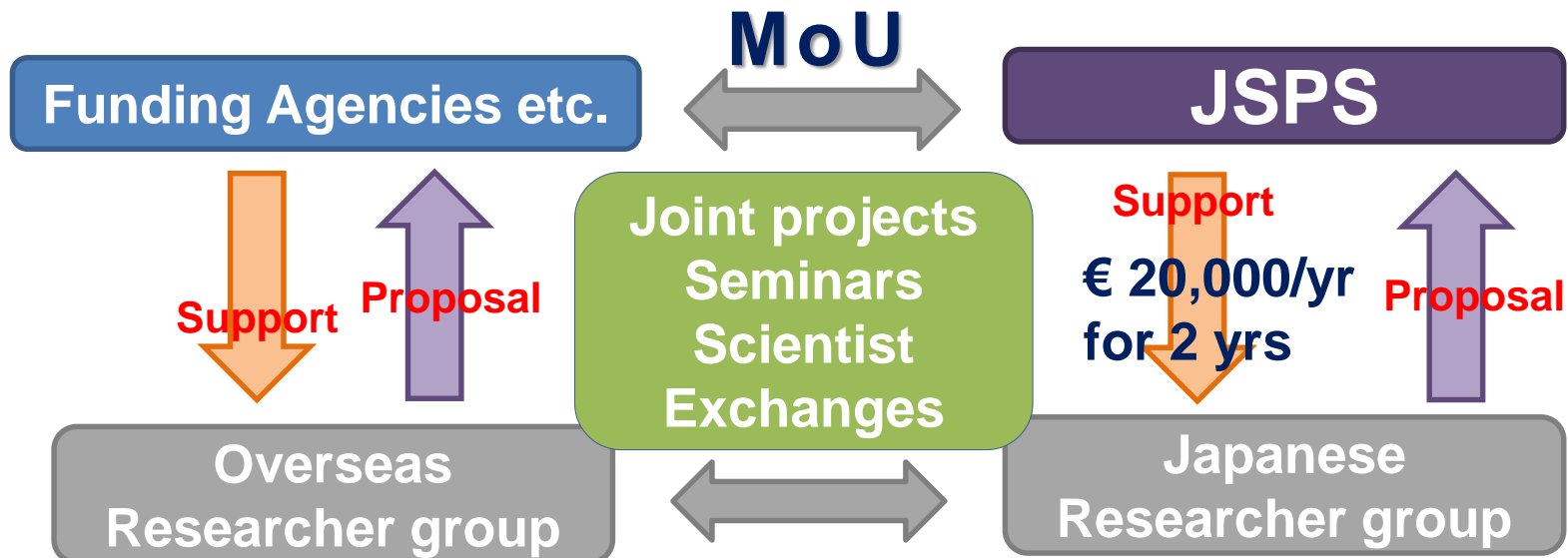
### Overseas Challenge Program for Young Researchers

3 -12 months, 140 awardees



# International Collaboration Programmes

## Bilateral Programme “based on MoU”



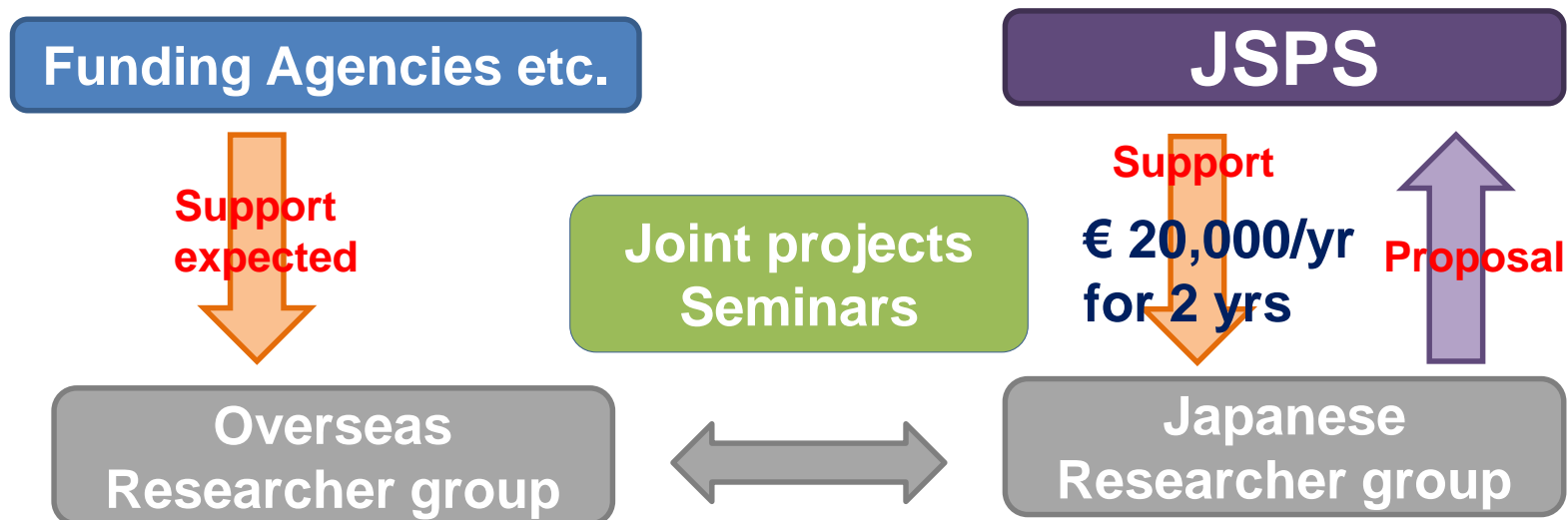
### 177 Projects in FY2016

Austria	FWF	Germany	DAAD, DFG	Russia	RFBR
Belgium	FNRS, FWO	Hungary	HAS	Slovakia	SAS
Czech	CAS	Italy	CNR	Slovenia	MESS
Finland	AF	Netherlands	NWO	Spain	CSIC
France	CNRS, Inria, Inserm, MAEDI, IHES	Norway	RCN	Sweden	STINT, VINNOVA
		Poland	PAN	Ukraine	SFFR



# International Collaboration Programmes

## Bilateral Programme without MoU “Open Partnership”



### 74 Projects in FY2016

Czech	2	Hungary	1	Russia	1
Denmark	2	Italy	2	Spain	7
Estonia	1	Latvia	1	Sweden	2
Finland	5	Lithuania	4	Switzerland	5
France	8	Netherlands	2	UK	20
Georgia	1	Norway	1	Ukraine	2
Germany	7				

# International Collaboration Programmes

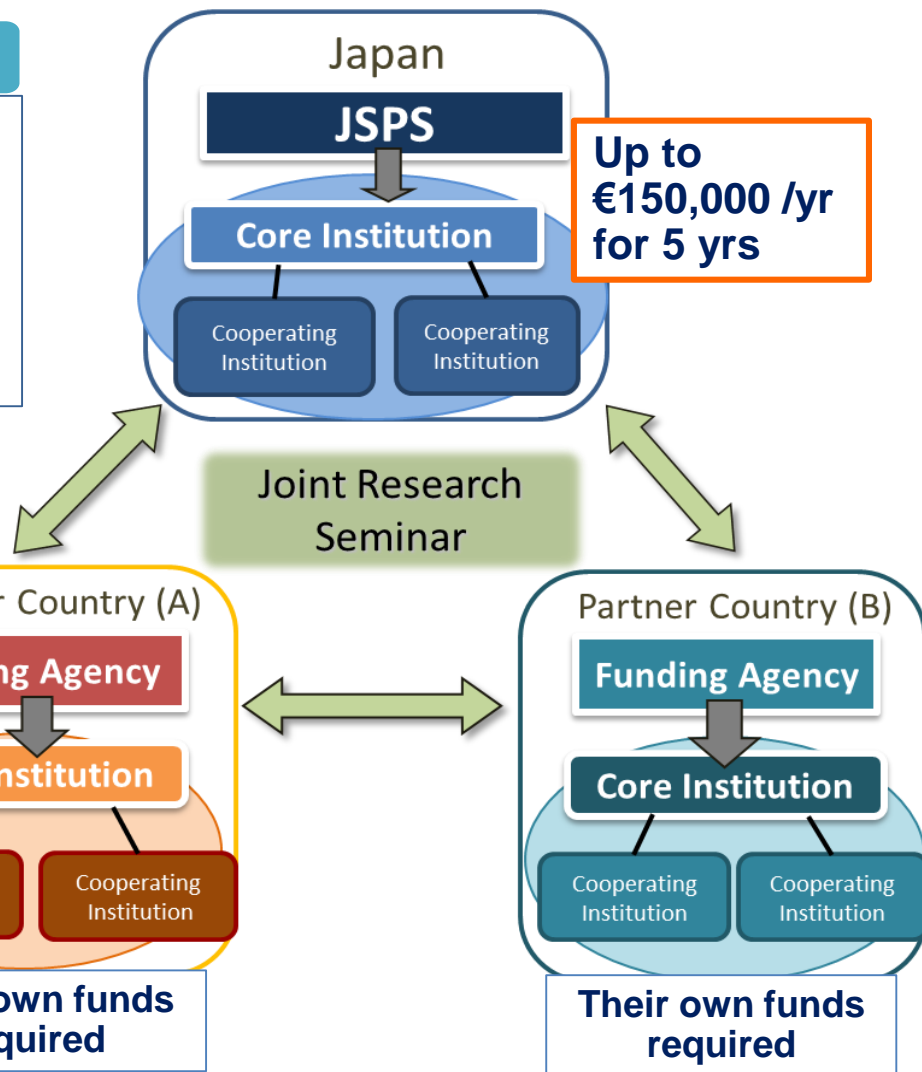
## Core-to-Core Programme

### Multilateral & Institutional collaboration

- Promote International collaboration in cutting edge fields by creating world-class research hubs.
- Foster new generations of talented young researchers in Japan and other countries.

### 37 Projects in FY2017 with European countries

Belgium	4	Netherlands	3
Denmark	1	Norway	1
Finland	1	Russia	2
France	18	Sweden	3
Germany	24	Switzerland	7
Italy	8	UK	23
Belgium	4	Netherlands	4



# JSPS Alumni Associations in Europe

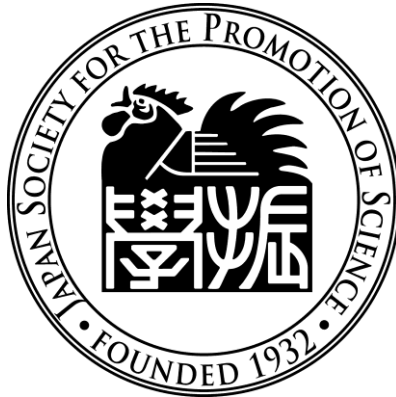
- maintain and develop linkages with Japan  
➔ long-lasting collaboration, not “one time visit.”
- Exclusive programmes for the members  
“BRIDGE fellowship”
- Symposiums & Networking events

Denmark	35 members
Finland	88 members
France	626 members
Germany	443 members
Sweden	166 members
UK & Ireland	658 members

# KAKENHI

- 30,000 new projects every year
- 70,000 ongoing projects in total
- Total annual budget €2,000,000,000
- €40,000 ~ €4,000,000/project for 2~5 yrs
- Research grants for
  - Japan-based researchers
  - Curiosity-driven research
  - All research activitiesincluding international collaboration

# ***Thank you for your kind attention***



**Feel free to contact us!**

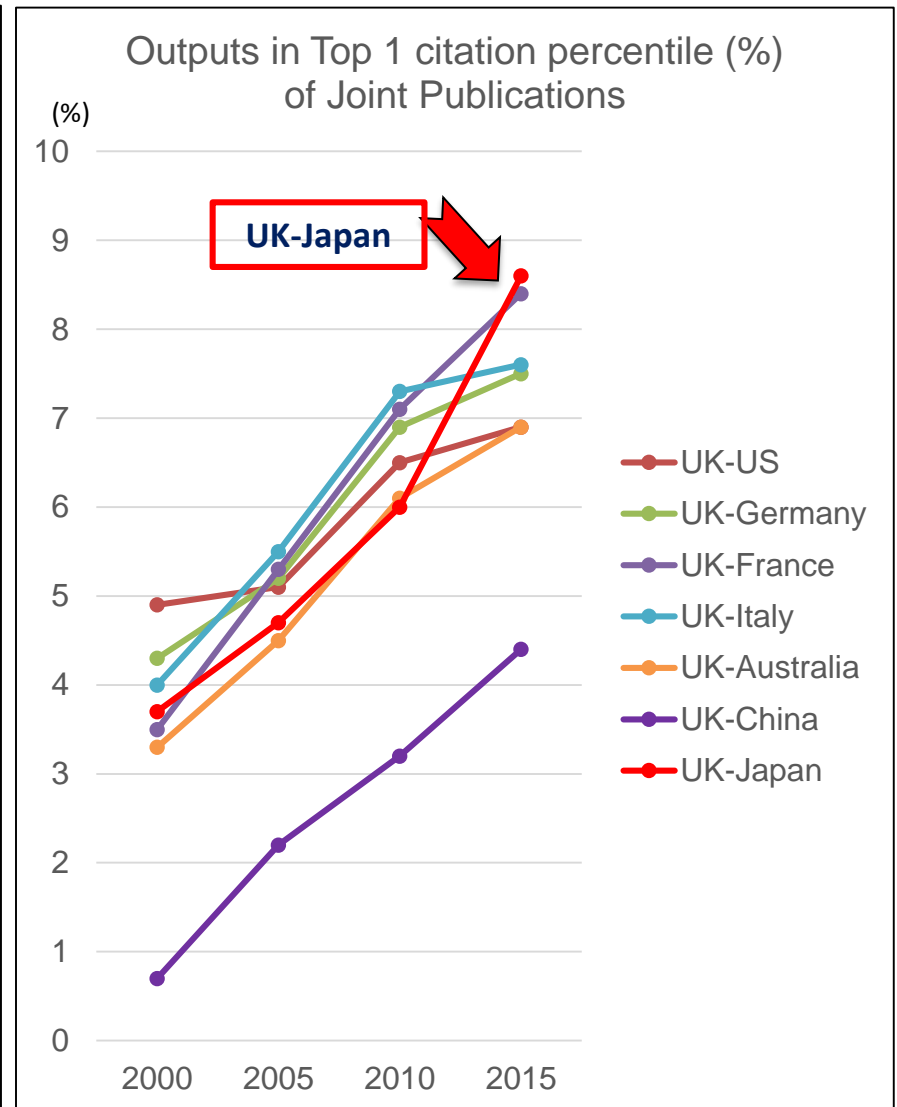
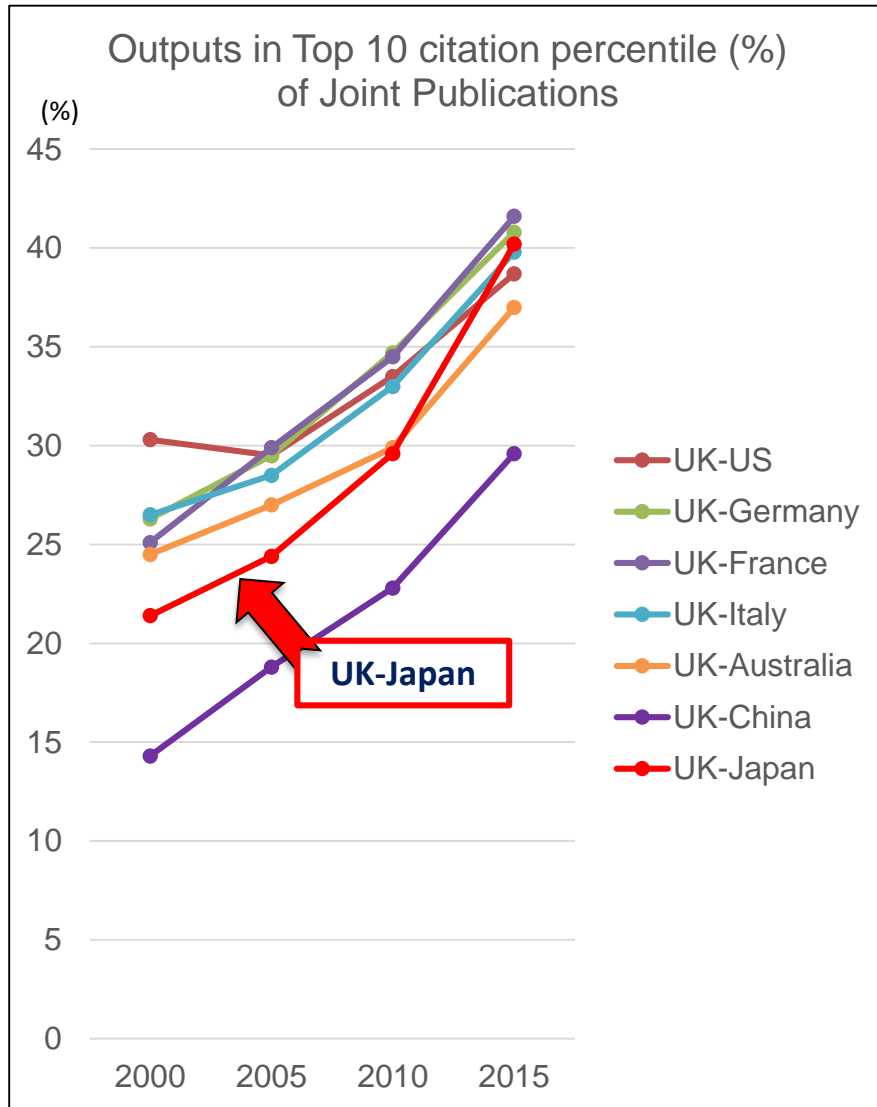
JSPS London Office	<a href="mailto:enwuire@jsps.org">enwuire@jsps.org</a>
JSPS Bonn Office	<a href="mailto:info@jsps-bonn.de">info@jsps-bonn.de</a>
JSPS Stockholm Office	<a href="mailto:jsps-sto@jsps-sto.com">jsps-sto@jsps-sto.com</a>
JSPS Strasbourg Office	<a href="mailto:jsps@unistra.fr">jsps@unistra.fr</a>

# **Additional Information**





# UK-Japan Research Collaboration



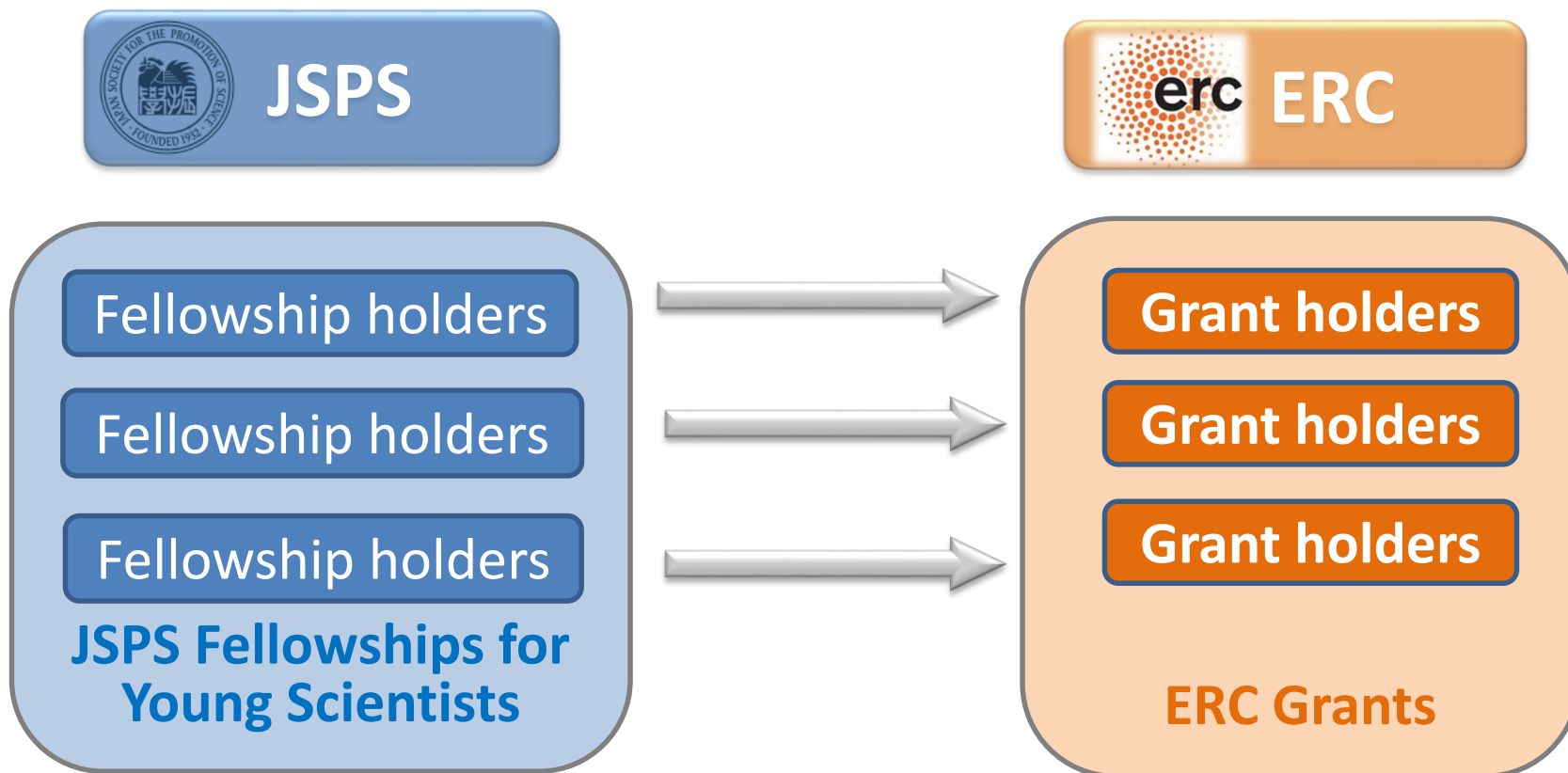
Data source: Scopus



# International Collaboration Programmes

## Japan → Europe Fellowship programmes

### Agreement between JSPS and ERC





# JST programmes for Europe-Japan collaboration

Collaboration with Japan, EARMA 2017  
26th April, 2017

Kumiko Nakayama  
Deputy Director, JST Paris Office



国立研究開発法人  
科学技術振興機構

# Major Funding Agencies in Japan



**JSPS**

2.58 Billion  
EUR

Fostering young researchers and awarding Grants-in-Aid for scientific research

Source  
<https://www.jsps.go.jp/abotutus/index5.html>



**JST**

0.88 Billion  
EUR

Responsible for implementing S&T policies in Japan



**AMED**

1.05 Billion  
EUR

Engaging in R&D in the field of medicine and providing funding

Source  
<http://www.amed.go.jp/abotutus/gaiyou.html>



**NEDO**

1.16 Billion  
EUR

Playing an important part in Japan's economic and industrial policies

Source  
<http://www.nedo.go.jp/introducing/yosan.html>

1 EUR = 120 JPY

# JST's Outline

**•JST is one of the major funding agencies responsible for the implementation of science and technology policy in Japan.**

**President:** Dr. Michinari Hamaguchi

**Establishment:** October 1, 1996

**Annual budget in FY2016:** About 106 billion yen (882 million EUR)  
※1

EUR=120 JPY

**# of Employees:** 1,227 (including about 200 PhDs) \* As of March 2016

**# of Institutes JST funds:**

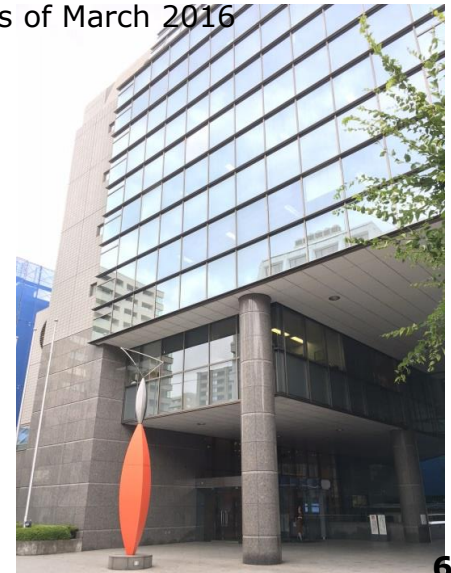
294 Universities, 126 Research Institutes and 470 Companies \* As of Dec. 2014

**# of R&D Projects JST funds:**

4,485 Projects \* As of Dec. 2014

**# of Patents that JST holds:**

Approx. 5,800 \* As of Dec. 2014





# JST's Primary Functions

1

**Establishing R&D Strategies**

2

**Promoting S&T Innovation**

- Strategic Basic Research Programs
- R&D Programs for Industry-Academia Collaboration
- Promotion for International Cooperation
- Leveraging the Intellectual Property

3

**Building Infrastructure for S&T Innovation**

- Dissemination of Scientific and Technological Information
- Promoting Science Education
- Promoting Communication on S&T

# JST Programmes for Global Collaboration

## Bilateral International Collaboration



**J-RAPID**



Japan-Asia Youth Exchange Program in Science  
SAKURA Exchange Program in Science



Promoting Globalization  
on Strategic Basic Research  
Programs

## Multilateral International Collaboration



## R&D Support of Collaboration with Developing Countries (Partnership with JICA)



Science and Technology

Official Development Assistance

For the Earth,  
for the Next Generation

SICORP:

Strategic International Collaborative Research Program

J-RAPID: Japanese Grants for Rapid Response Research

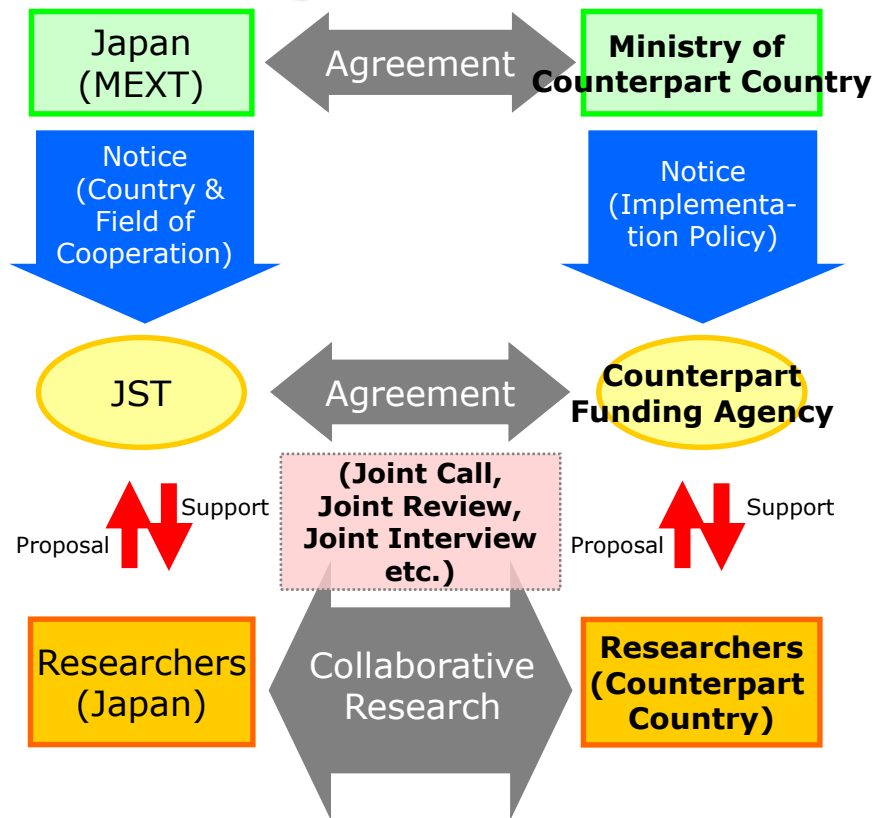
CONCERT-Japan: Connecting and Coordinating European Research and Technology Development with Japan

SATREPS: Science and Technology Research Partnership for Sustainable Development

# Strategic International Collaborative Research Program (SICORP)

- Based on intergovernmental agreements or agreements at ministerial-level meetings
- Countries and research fields of cooperation are designated by MEXT

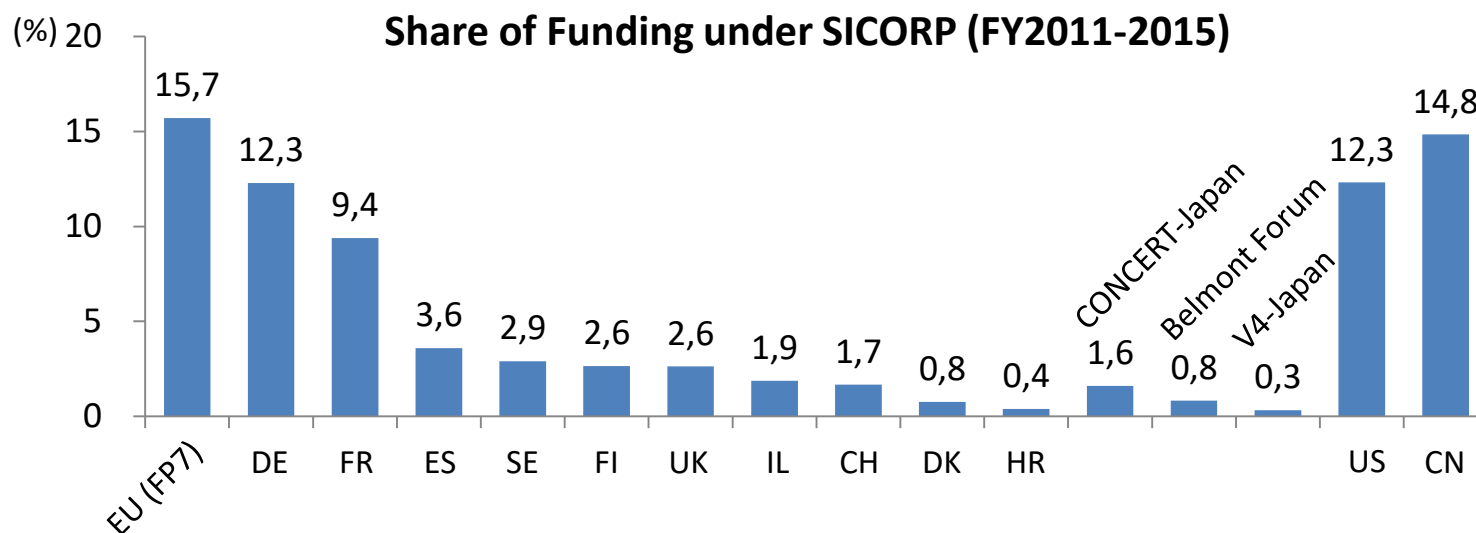
## Program Scheme



- JST and the counterpart agency fund joint research projects in the designated field.

- 1) Acceleration type  
5M~10M JPY/project/year  
(40K ~80K EUR/project/year)
  - 2) Core-Team type  
10M~30M JPY/project/year  
(80K ~240K EUR/project/year)
  - 3) Consortium type  
30M~50M JPY/project/year  
(240K ~400K EUR/project/year)
  - 4) Collaboration Hubs for International Research Program (CHIRP)  
50M ~100M JPY/project/year  
(400K~800K EUR/project/year)
- ※1 EUR=125 JPY

# S&T Cooperation with European Countries



## Bilateral Collaboration (On-going)

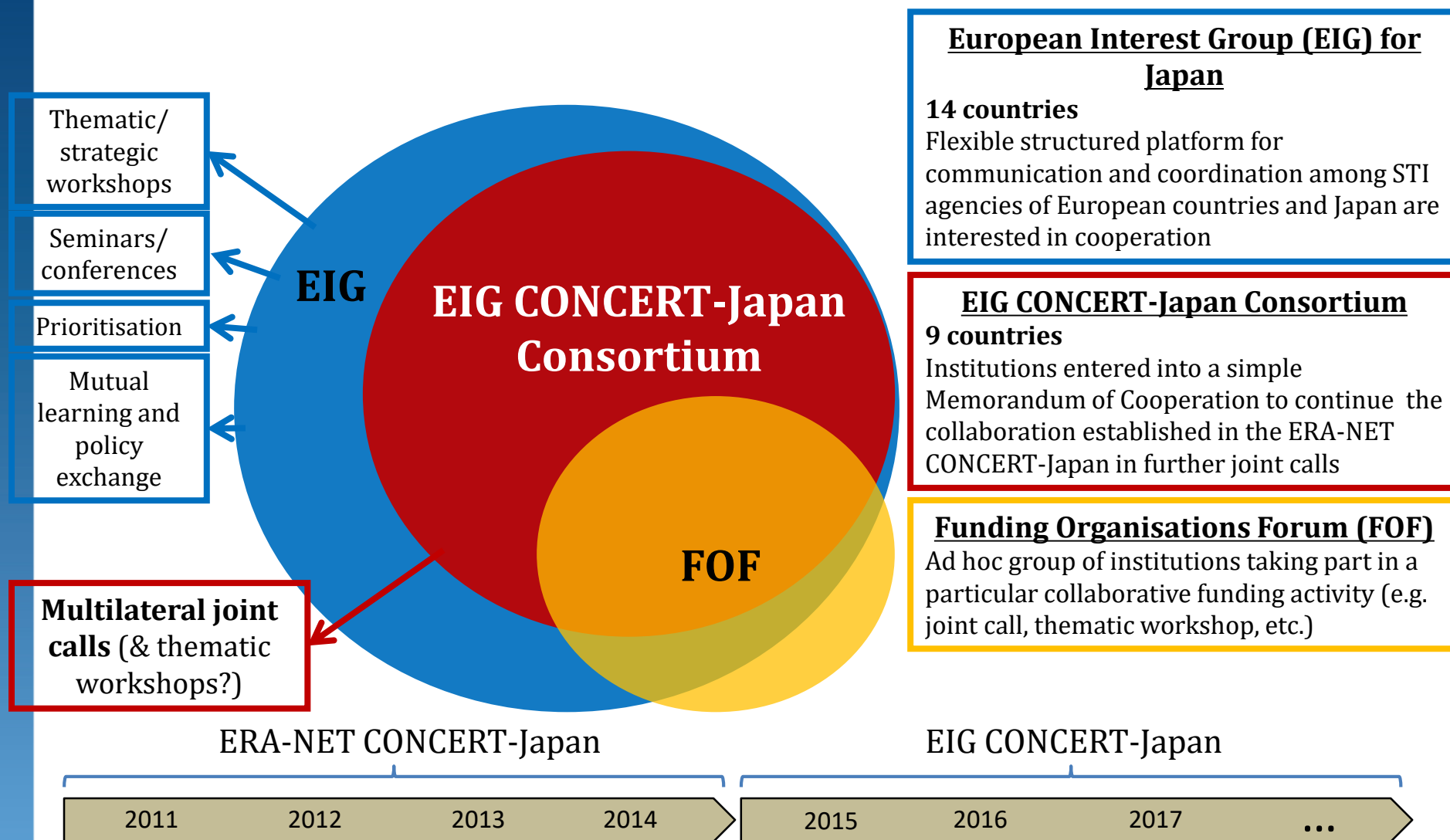
Country/ Region	Counterpart Funding Agency	Research Area	Number of Project
EU	EC-DG RTD	Power Electronics	1
France	ANR	Molecular Technology	12
Finland	Tekes/AF	Information Systems for Accessibility and Support of Older People	3
Sweden	Vinnova	Innovative Solutions, Community Design and Services for Elderly People	4

# S&T Cooperation with European Countries

## Multilateral Collaboration (On-going)

Program	Country/ Region	Counterpart Funding Agency	Research Area	Number of Project
V4-Japan	Czech Republic Hungary Poland Slovakia	MEYS/NKFIH /NCBR/ SAS/IVF	Advanced Materials	5
EIG CONCERT- Japan	Spain Turkey Germany France	MINECO/ TÜBİTAK/ DLR/CNRS	Food and Biomass Production Technologies	5
Belmont Forum	16 countries/regions and 3 international organizations		Food Security and Land-Use Change	1
			Arctic Observing and Research for Sustainability	2
			Climate Predictability and Inter- Regional Linkages	2
			Sustainable Urbanisation Global Initiative: Food-Water-Energy Nexus	Under review
			Transformations to Sustainability	Under review

# CONCERT-Japan as an EIG activity





# 4<sup>th</sup> Joint Call Pre-Announcement

## “Efficient Energy Storage and Distribution” Joint Call: will soon be launched!



- Support period: **3 years**
- Having **mobility and networking dimensions**
- Project consortium should consist of at least **3 partners** (1 from Japan and 2 from two different European countries).

### Participating Funding Institutions (expected):

-  **Japan:** Japan Science and Technology Agency (JST)
-  **France:** Centre national de la recherche scientifique (CNRS)
-  **Spain:** Ministry of Economy and Competitiveness (MINECO)
-  **Germany:** German Federal Ministry of Education and Research (BMBF)
-  **Turkey:** Scientific and Technological Research Council of Turkey (TÜBITAK)
-  **Lithuania:** Agency for Science, Innovation and Technology (MITA)
-  **Norway:** Research Council of Norway (RCN)
-  **Slovakia:** Slovak Academy of Sciences (SAS)
-  **Czech Republic:** Czech Academy of Sciences (CAS)

**9 institutions from  
9 countries**

# EIG CONCERT JAPAN PRE-ANNOUNCEMENT

Connecting and Coordinating  
European Research and Technology Development with Japan

What is EIG CONCERT-Japan?



CONCERT-Japan is an international joint initiative to support, coordinate and enhance science, technology and innovation (STI) cooperation between European countries and Japan. It began as an ERA-NET project funded by the EU FP7 (2011-2014), and is now implemented independently of EU support as an activity of the **European Interest Group** (EIG: a flexible and inclusive communication platform for European and Japanese funding agencies).

## Aim of the Joint Call:

**"Efficient Energy Storage  
and Distribution" Joint Call:  
will soon be launched!**

The overall aim of this call is to support scientific research to further the development of more efficient, reliable, secure, flexible and sustainable technologies in energy storage systems and distribution of electricity.

The topic scope is inclusive of all related areas from stationary applications for smart energy grids to mobile applications for transportation.

## Conditions:

Research projects with an **innovative dimension** will be funded for a period of **3 years** in the field of Energy Storage and Distribution. The research projects are expected to have **mobility and networking dimensions** apart from the core research component.

Each project consortium applying for this call should consist of at least **3 partners, 1 from Japan and 2 from two different European countries** participating in the call.

The Joint Call will be funded by the budget allocated by each participating national/regional funding institutions. Therefore, each participating funding organization reserves the right to apply its national/regional funding regulations.

## Potential Funding Institutions

Participation of funding Institutions is not definitive until the launch of the call. It is possible that some Institutions may be added to this list or some Institutions may be removed from this list.



The Joint Call Text and Submission process will soon be published on the EIG CONCERT-Japan website: [concert-japan.eu](http://concert-japan.eu)

For more information on the EIG CONCERT-Japan, feel free to contact the Joint Call Secretariat:

**Joint Call Secretariat:**  
[concert-japan-jcs@cnrs.fr](mailto:concert-japan-jcs@cnrs.fr)



The Joint Call Text and Submission process will soon be published on the EIG CONCERT-Japan website :  
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For more information on the EIG CONCERT-Japan, feel free to contact the **Joint Call Secretariat:**  
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<source: [http://concert-japan.eu/IMG/pdf/eig\\_concert-japan\\_pre-announcement\\_draft\\_.pdf](http://concert-japan.eu/IMG/pdf/eig_concert-japan_pre-announcement_draft_.pdf)>

# Overseas Branch Office

Country	<b>France</b>	U.S.A	Singapore	China
City	<b>Paris</b>	Washington D.C.	Singapore	Beijing
Date of Foundation	<b>1984/2/1</b>	2004/12/1	2009/7/1	2002/4/22

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Deputy Dir.: Ms. Naoko YASUO  
E-mail: washingtondc@jst.org

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Director: Mr. Masaki SATO  
E-mail: info-138667@jstsg.org

# Thank you for your kind attention

[info@jstparis.net](mailto:info@jstparis.net)

Paris Office

Japan Science and Technology  
Agency (JST)