

# Overview of JST and International Research Cooperation

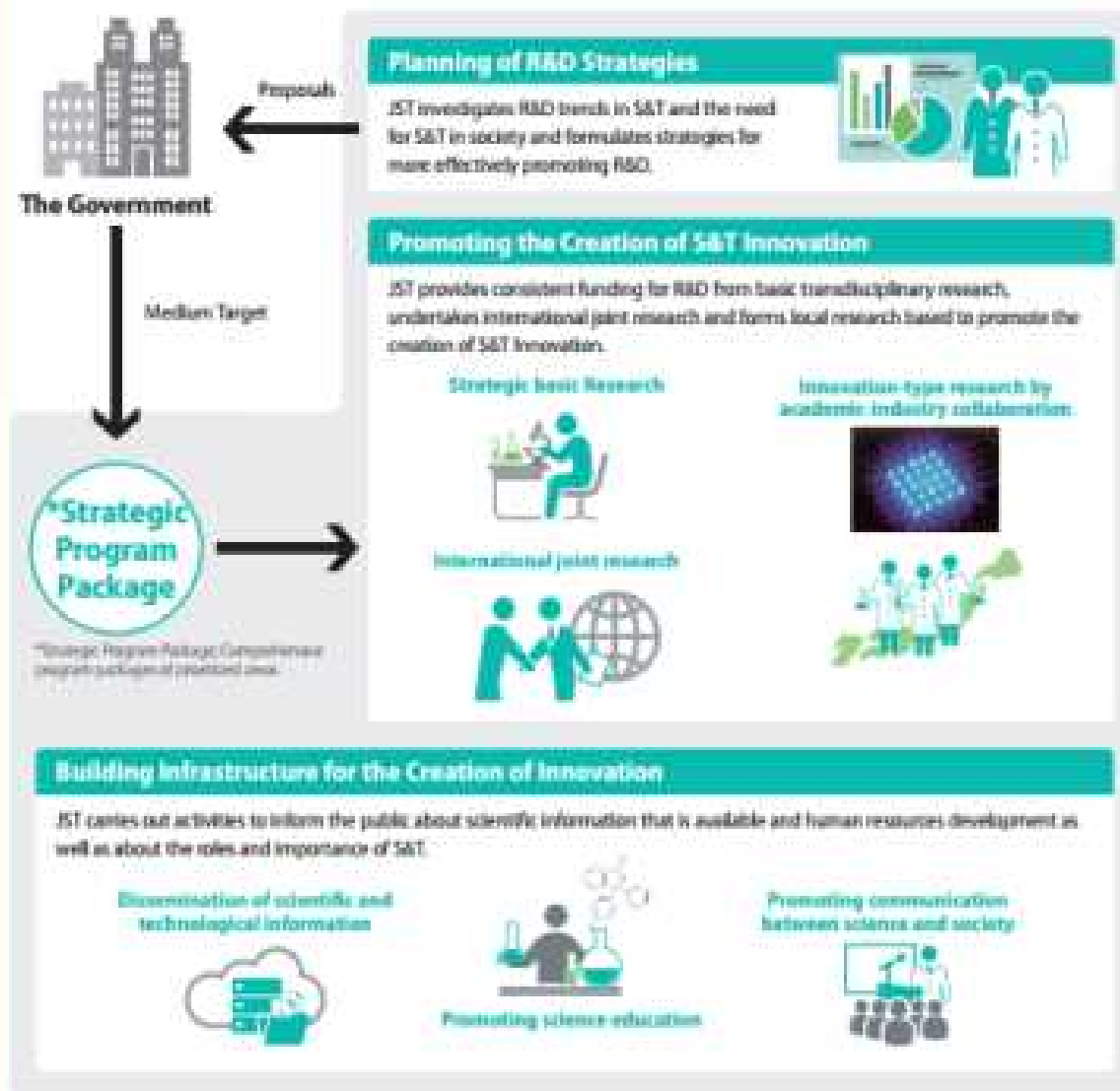
for EU-Japan Policy Seminar on 9 June, 2016

Kumiko Nakayama  
JST Paris Office



国立研究開発法人  
科学技術振興機構

# JST's Outline



**President:** Dr. Michinari Hamaguchi

**Establishment:** October 1, 1996

**Annual budget in FY2015:**

About 106.5 billion yen (850 million EUR)

※1 EUR=125 JPY

**# of Employees:**

1,247 (including 251 PhDs) \* As of Dec. 2014

**# 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

# Japan's STI administration

**Prime Minister**

**Cabinet Office**

## Council for S&T Innovation (CSTI)

- (1) Investigation and deliberation on basic policy relating to S&T
- (2) Investigation and deliberation concerning the policy for allocation of S&T related budget, human resources, etc.
- (3) Evaluation of nationally important R&D

**Ministry of Education, Culture, Sports, S&T (MEXT)**

Ministry of Internal Affairs and Communications (MIC)

Ministry of Health, Labor and Welfare (MHLW)

Ministry of Agriculture, Forestry and Fisheries (MAFF)

Ministry of Economy, Trade, Industry and Tourism (METI)

Ministry of Land, Infrastructure and Transport (MLIT)

Ministry of the Environment (MOE)

**Universities**

## National R&D Agencies

- Japan Agency for Marine Earth Science and Technology (JAMSTEC)
- Japan Aerospace Exploration Agency (JAXA)
- **Japan Science and Technology Agency (JST)**
- National Research for Earth Science and Disaster Prevention (NIED)
- National Institute for Material Sciences (NIMS)
- National Institute of Radiological Science (NIRS)
- RIKEN
- Japan Atomic Energy Agency (JAEA)

Japan Agency for Medical Research and Development (AMED)

## Independent Administrative Institutes

- Japan Society for the Promotion of Science (JSPS)

# Mission & Vision

## Mission

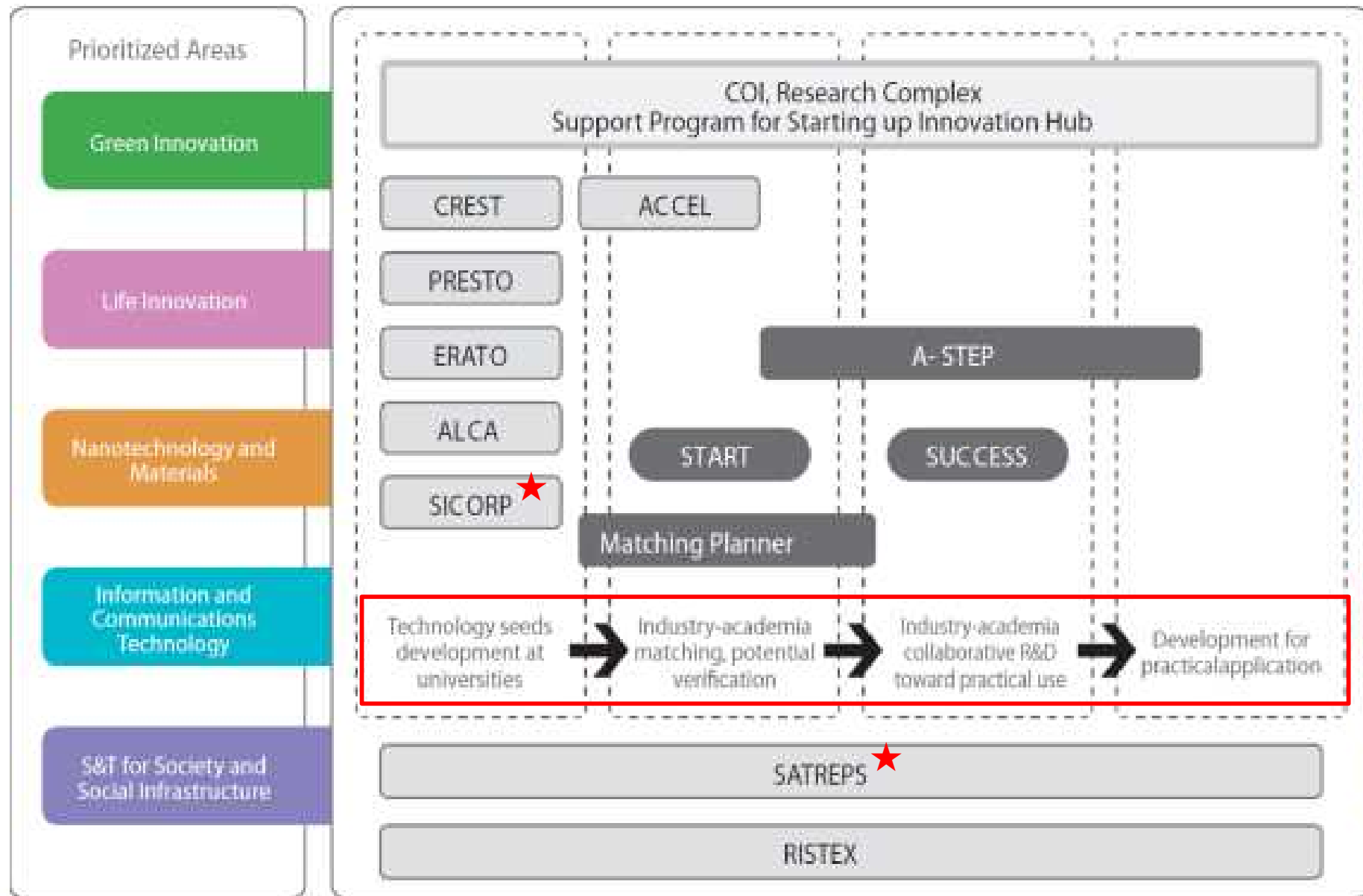
Contribute to the creation of innovation

## Vision

- I. Achieving innovations in S&T through creative R&D
- II. Maximizing research outcomes by managing research resources on a virtual network
- III. Developing Japan's infrastructure for S&T so as to accelerate innovation in S&T

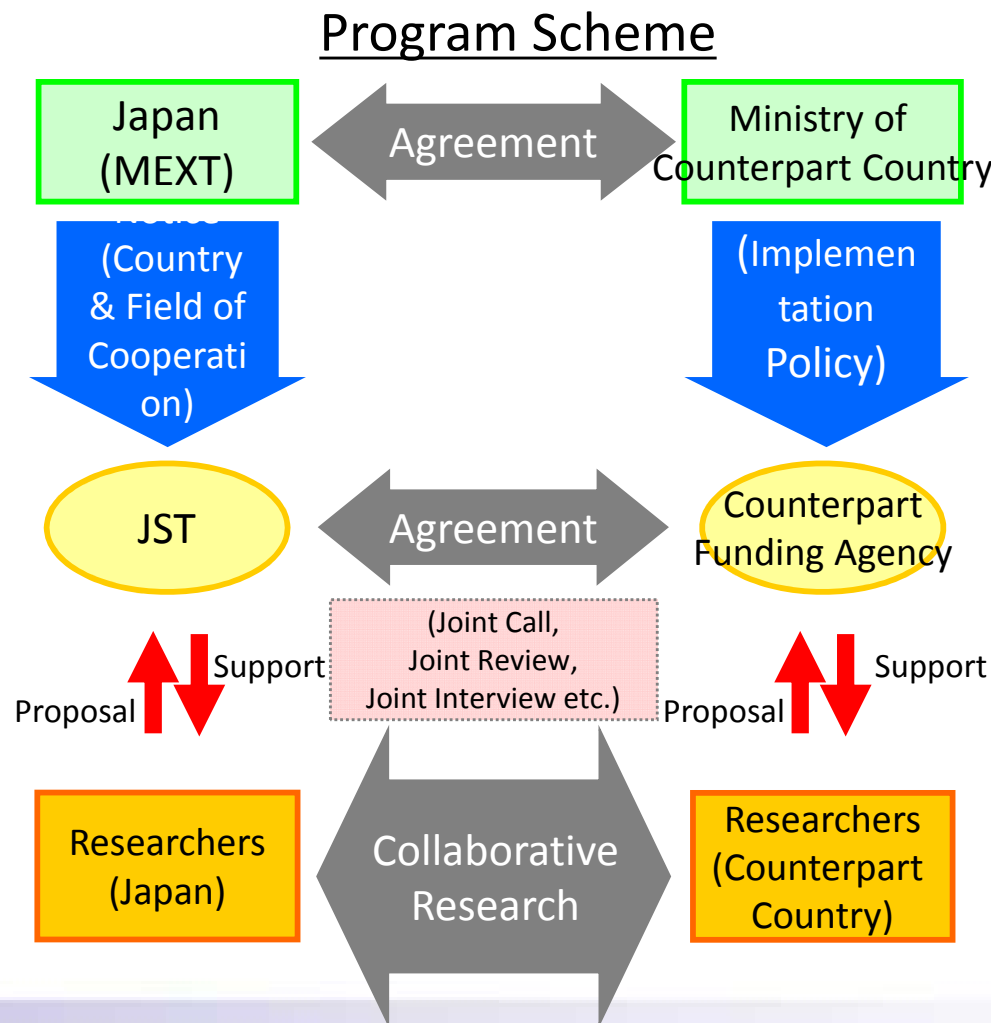
<http://www.jst.go.jp/EN/about/message.html>

# Major Funding Programs of JST



# 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



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

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

※1 EUR=125 JPY

# Cooperation with the FP7

Coordinated calls	Year	#	Other cooperation	Year	#
FP7/JST on Superconductivity (ca. 150 M JPY/ 3 years/ project)	2010	3	Support to JP participants in FP7 ENV calls (23 M JPY/ 3 years/ project)	2008 2009 2010	4
FP7/JST on substitution of critical metals (ca. 150 M JPY/ 3 years/ project)	2012	3	CONCERT-Japan joint calls on Efficient Energy Storage and Distribution/disaster resilience /photonic manufacturing (10 M JPY/ 2 years/ project)	2012 2014	9 +



- **Wider participation in Open calls in a more coordinated manner**
- **Continuation of ERA-NET activities through European Interest Group for Japan ( EIG-Japan)**

# Example Achievements of FP7/JST project

Research Area : "Development of New Materials for the Substitution of Critical Metals"  
Research Period: FY2013 – FY2016

<b>NOVACAM:</b> Novel cheap and Abundant Materials for catalytic biomass conversion	Wataru Ueda, Kanagawa University Emiel Hensen, Eindhoven University of Technology (the Netherlands)
<b>HARFIR:</b> Heusler Alloy Replacement For Iridium	Koki Takanashi, Tohoku University Atsufumi Hirohata, The University of York (United Kingdom)
<b>IRENA:</b> Indium replacement by single-walled carbon nanotube thin films	Shigeo Maruyama, The University of Tokyo Esko I. Kauppinen, Aalto University School of Science (Finland)



# Horizon 2020 Work Programme 2016-17

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JST will support Japanese participation in the following calls:

- **NMBP-02-2016:** Advanced Materials for Power Electronics based on wide bandgap semiconductor devices technology
- **NMBP-03-2016:** Innovative and sustainable materials solutions for the substitution of critical raw materials in the electronic power system

Publication date: 14 October 2015

Deadline: 8 December 2015 (1<sup>st</sup> Stage) **Closed!**

24 May 2016 (2<sup>nd</sup> Stage) **Closed!**

Budget: max. 60 M JPY/ project

# EIG CONCERT-Japan

CONCERT-Japan began as an ERA-NET project funded within the 7th EU Framework Program for Research and Technical Development (FP7) from 2011 to 2014.



**Consortium : 13 organizations from 9 countries**

Turkey (TÜBITAK) -Coordinator / Japan (MEXT/JSPS/JST)

France (CNRS) / Germany (DLR/ZENIT) / Hungary (BZAKA) / Italy (CESTEC/RL) /

Norway (RCN) / Spain (MICINN) / Switzerland (ETH Zurich)

**“EIG for Japan”**



## COORDINATION



**EIG members: 26 organizations from 13 countries**

# EIG CONCERT-Japan (Current Joint Calls for Proposals)

## /!\ Reopening of the Third Joint Call: "Food Crops and Biomass Production Technologies" /!\

by Sandrine - published on 31 May, updated on 3 June 2016 at 09:38



The 3rd Joint Call on "Food Crops and Biomass Production Technology" is reopened for project proposals submissions.

Applicants can submit their project proposals between **Tuesday 31st May 2016** and **Wednesday 27th July 2016** on PT-Outline. More information on the call are available in the Joint Call 2016 section of the website, as well as

in the Resources sections for updated documents.

Researchers who have already submitted a project proposal have to **resubmit** it after contacting their NRCP and the Joint Call Secretariat for more information on the eligibility of their project.

<source: <http://www.concert-japan.eu/spip.php?article28>>

### ▣ **Period of the Call for Proposals**

31 May 2016 until 27 July 2016, 20:00 (Japan time)

### ▣ **Budget**

Max. 14M JPY for 3 years (for Japanese team)

### ▣ **Participating funding agencies**

JST(Japan), CNRS(France), BMBF(Germany), MINECO(Spain), TüBITAK(Turkey)

### ▣ **Enquiries**

Joint Call Secretariat: CNRS

Ms. Sandrine Plaud-Guérin  
[concert-japan-jcs@cnrs.fr](mailto:concert-japan-jcs@cnrs.fr)

Project Coordinator: JST

[concert@jst.go.jp](mailto:concert@jst.go.jp)

# JST's Program for Global Collaboration

## Bi-lateral International Collaboration



## Multi-lateral International Collaboration



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



SICORP:

Strategic International Collaborative Research Program

J-RAPID: Japanese Grants for Rapid Response Research

IHEC: International Human Epigenome Consortium

e-Asia JRP: East Asia Joint Research Program

SATREPS: Science and Technology Research Partnership for Sustainable Development

# S&T Cooperation with European countries

## Bi-lateral International Collaboration

EU (Advanced Materials for Power Electronics, Substitution of Critical raw materials)  
France (molecular technology), Sweden (community design etc.),  
Finland (accessibility for elders etc.), EU (alternative materials for rare metals)

## Multi-lateral International Collaboration

EIG-CONCERT-Japan (Food Crops and Biomass)  
CONCERT-Japan (optical technology), V4 (Czech Republic, Hungary, Poland and Slovakia) -  
Japan (advanced materials)

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

### SATREPS:

Environment and Energy

Bioresources

Disaster Prevention and Mitigation

(JST implements)

Infectious Diseases Control

(AMED implements)



# Further information

<http://www.jst.go.jp/inter/english/top.html>



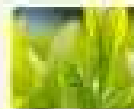
JST Home > Global Activities

## Bilateral research programs



SICP / SICORP

Strategic International Research Cooperative Program  
Strategic International Collaborative Research Program



SATREPS

JST Research Partnership for Sustainable Development

## Multilateral research programs



e-ASIA  
Joint Research Program



CONCERT-Japan



BELMONT FORUM

## On top funding



Promoting Globalization  
on Strategic Basic Research  
Programs

# Overseas Branch Office

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



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Thank you for your attention

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Paris Office

Japan Science and Technology Agency