

Introduction of JST

Opportunities for EU-Japan Research Collaboration

for Japanese University Research Administrators and
EU Researchers on February 22, 2016

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JST Paris Office



国立研究開発法人
科学技術振興機構

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 Science (NIMS)
- National Institute of Radiological Science (NIRS)
- RIKEN
- Japan Atomic Energy Agency (JAEA)

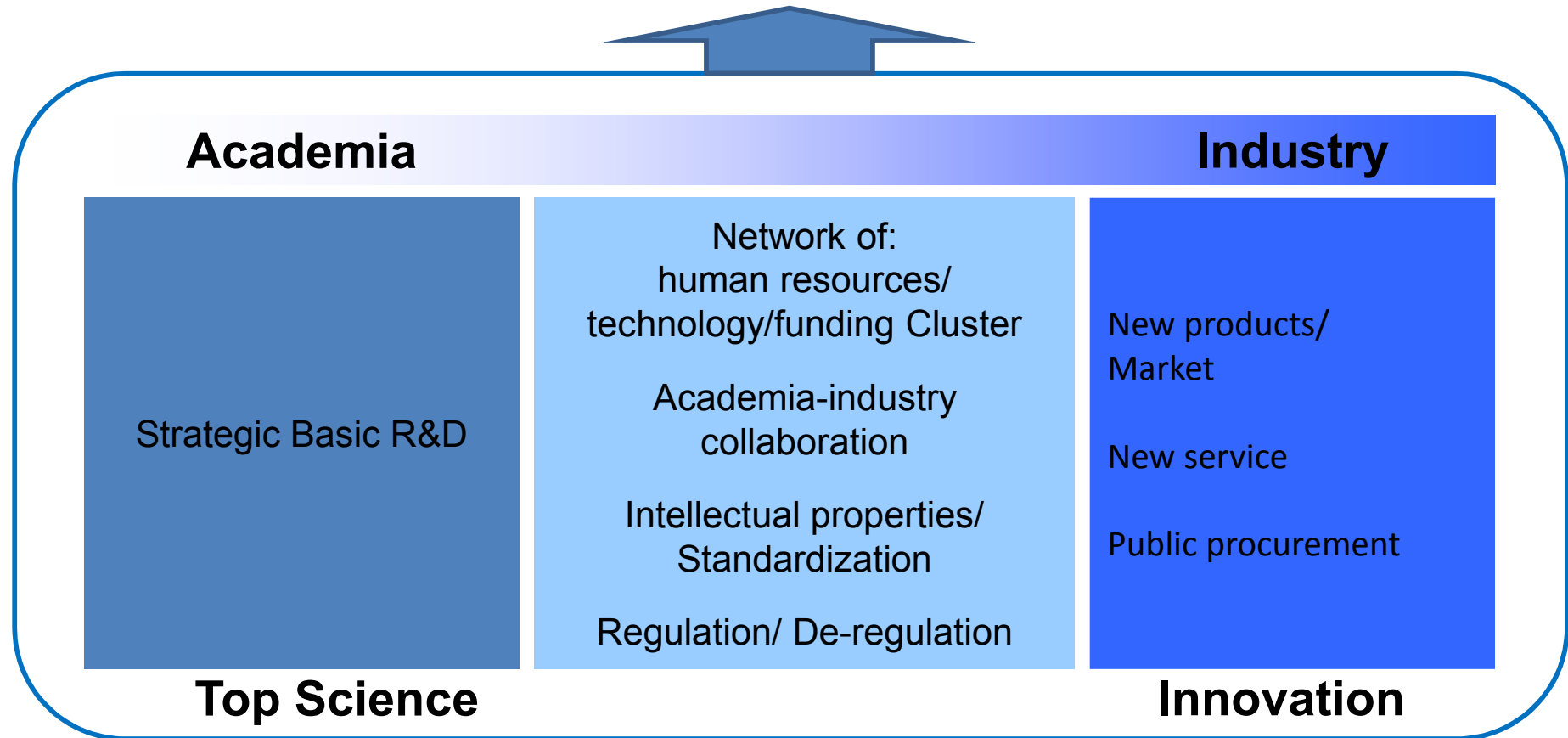
Japan Agency for Medical Research and Development (AMED)

Independent Administrative Institutes

- Japan Society for the Promotion of Science (JSPS)

The Role of JST

Prosperity and Sustainable Society



- ◆ The role of JST is “Catalyst” to accelerate the process of “Top Science to Innovation”
- ◆ JST organizes “Virtual Networking Research Institutes” to conduct R&D projects with a team managed by Program Officers

Mission & Vision

On April 1, 2015, the government of Japan established the National Research and Development Agencies by transforming the former Independent Administrative Agencies for R&D, including JST.

Mission

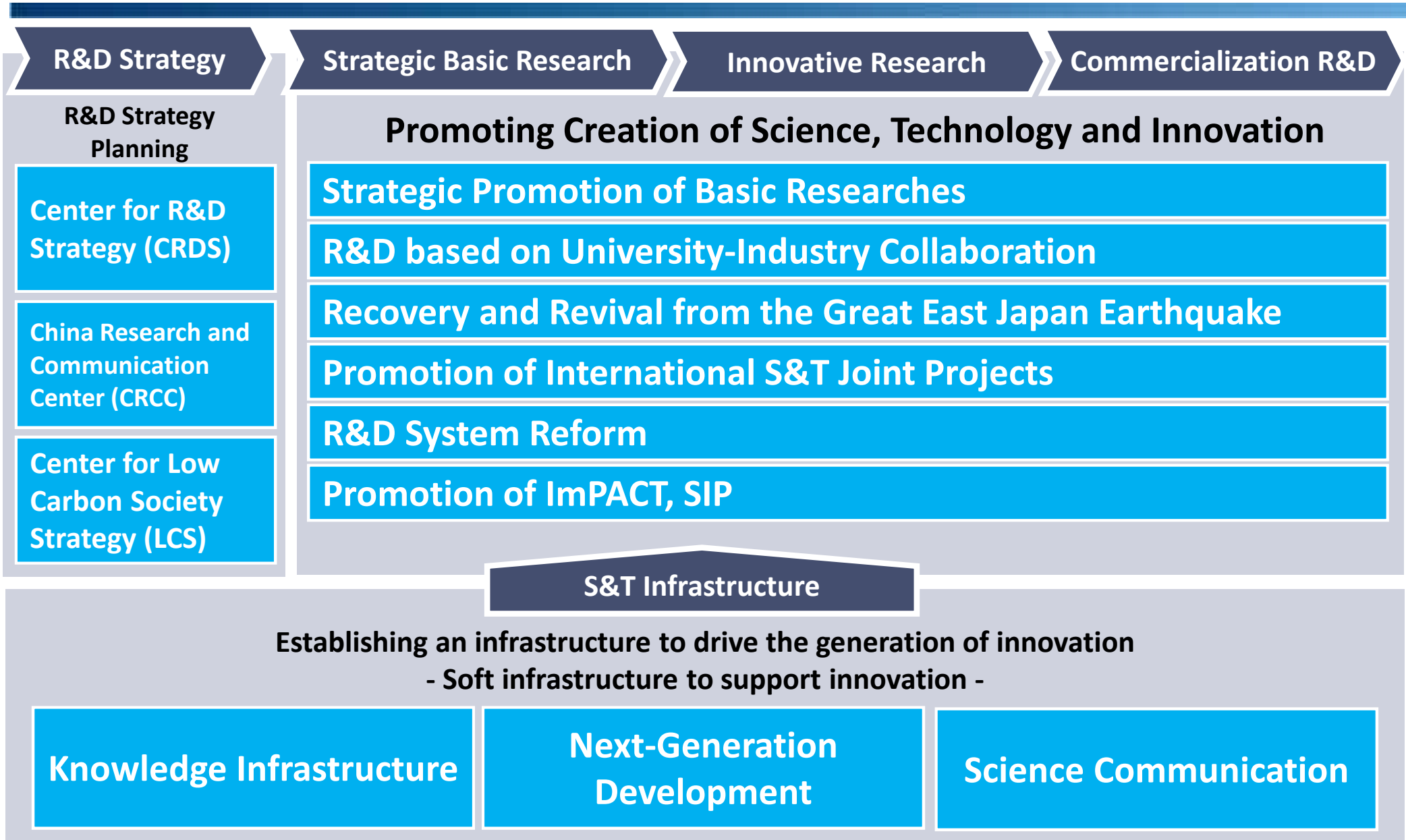
Contribute to the creation of innovation

Vision

- I. Achieving innovations in science and technology through creative research and development
- II. Maximizing research outcomes by managing research resources on a virtual network
- III. Developing Japan's infrastructure for science and technology so as to accelerate innovation in science and technology

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

Major Operation of JST



JST's Program for Global Collaboration

Bi-lateral International Collaboration



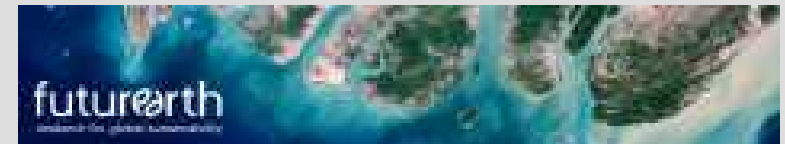
SICP/SICORP

J-RAPID



Promoting Globalization
on Strategic Basic Research
Programs

Multi-lateral International Collaboration



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



SICP: Strategic International Cooperative Program

SICORP: Strategic International Collaborative Research Program

SATREPS: Science and Technology Research Partnership for Sustainable Development

E-Asia JRP: East Asia Joint Research Program

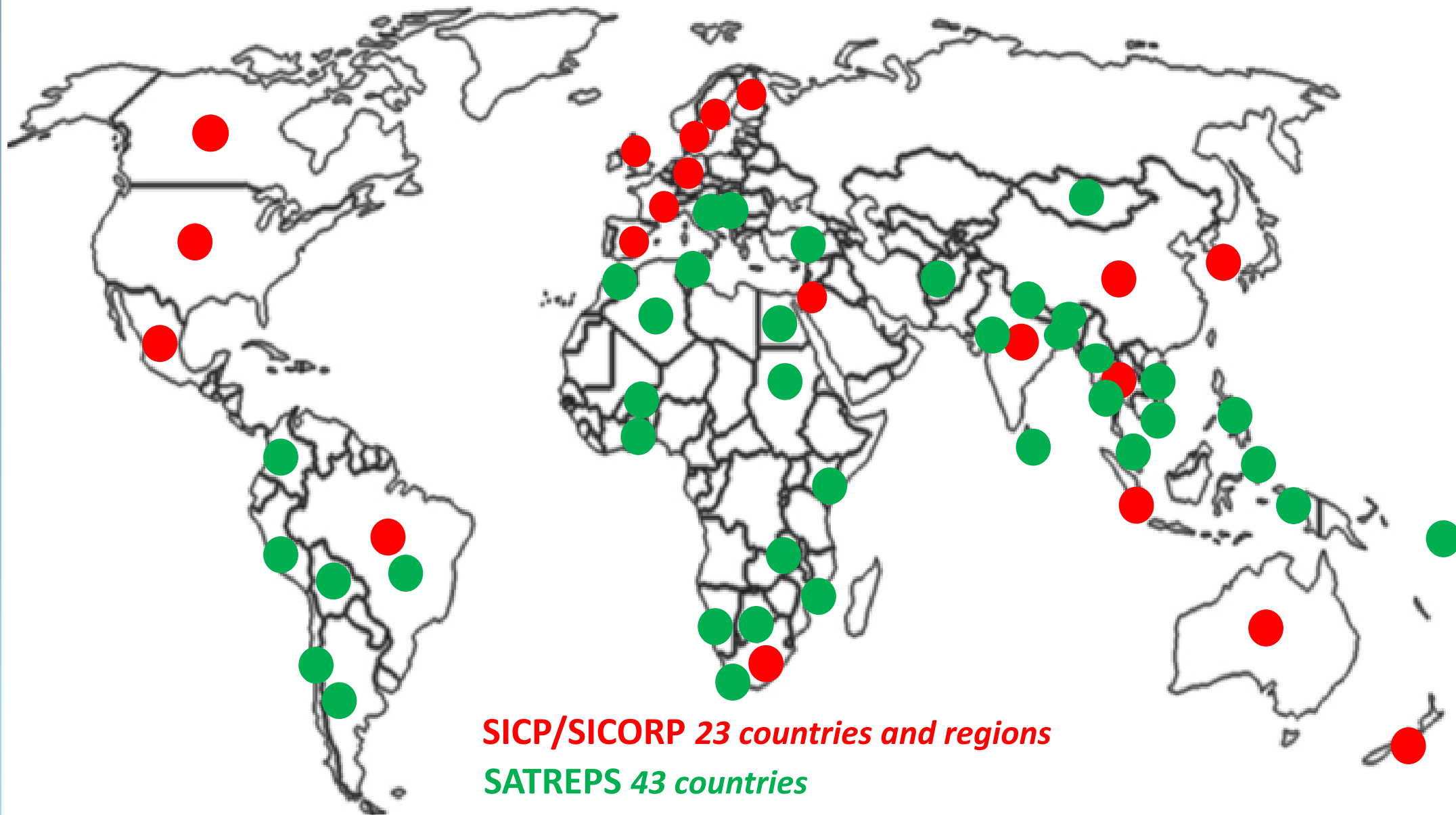
J-RAPID: Japanese Grants for Rapid Response Research

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

IHEC: International Human Epigenome Consortium

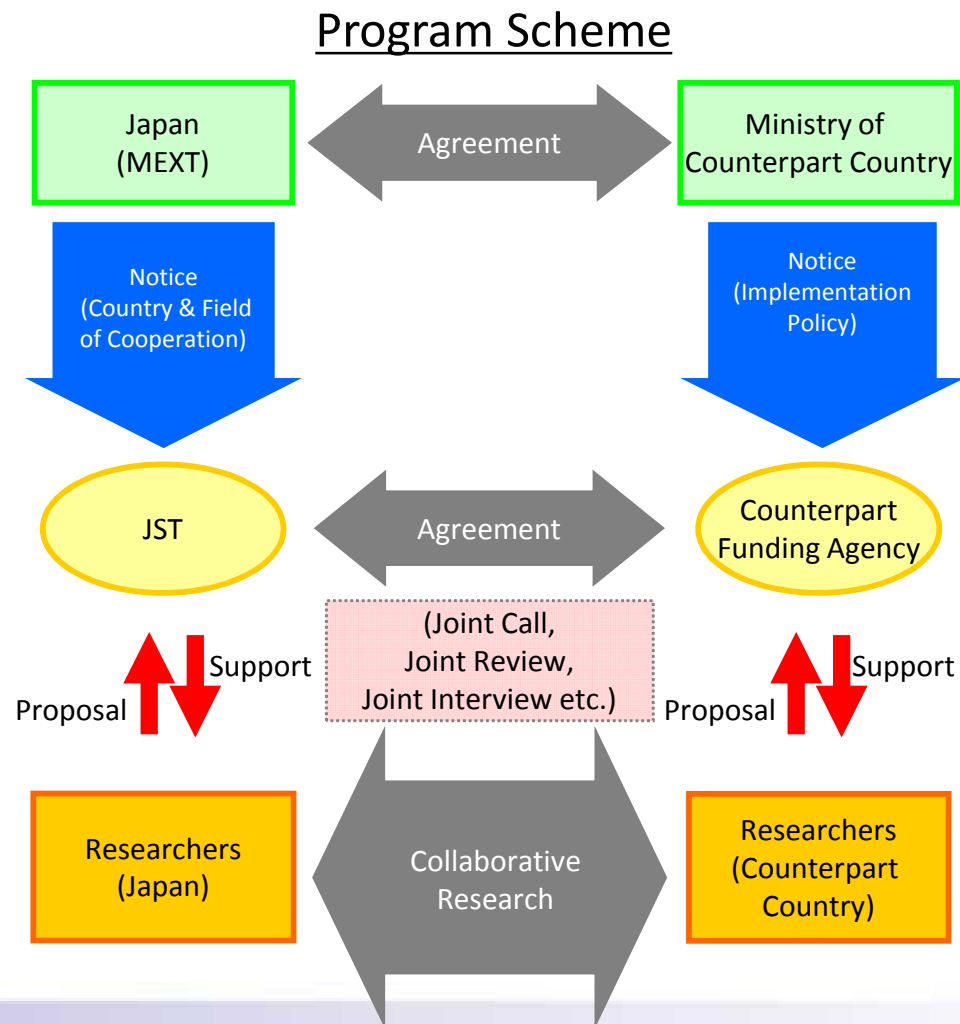
JST's International Activities

- *Bilateral Cooperation* -



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



Strategic International Cooperative Program (SICP, since 2003) has been merged to Strategic International Collaborative Research Program (SICORP, since 2009).

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

1) Consortium type

Budget: 30 ~ 50M JPY/project/year
(240K ~ 400K EUR/project/year)

2) Core-Team type

Budget: 10 ~ 30 M JPY/project/year
(80K ~ 240K EUR/project/year)

3) Acceleration type

Budget: 5 ~ 10 M JPY/project/year
(40K ~ 80K EUR/project/year)

※1 EUR=130 JPY

The Japan-EU Cooperation in FP7

Open calls on “Environment” through SICP (2008, 2009, 2010)

- JST joined 6 FP7 open calls in the field of “Environment”
- Funding was mainly to support research exchange with 23 M. JPY for three years per project
- 4 projects were supported through 3 invitations for JP applicants (2011-2014)

Coordinated call on “Superconductivity” through SICORP (2010)

- A larger scale cooperation on Superconductivity was discussed between MEXT and EU in 2009.
- JST and EU jointly organized “EU-Japanese Experts' Workshop on Novel Superconducting Materials” in November 2009 in Brussels.
- Coordinated call was opened in 2010. Funding scale on Japan side was approximately 150 M. JPY per project
- 3 out of 19 applications were funded and supported (2011-2015)

Coordinated call on “Development of New Materials for the Substitution of Critical Metals” through SICORP (2012)

- A new cooperation on “Rare metal” was discussed in 2010.
- JST and EU jointly organized “Japan-EU Workshop “Substitution of Critical Raw Materials” in November 2011 in Tokyo
- Coordinated call was opened in 2012. Funding scale on Japan side was approximately 150 M. JPY per project
- 3 out of 33 applications were funded (2011-2016)

The Japan-EU Cooperative Scientific Research Program (Current Calls for Proposals)

JST has launched a joint funding of project in close cooperation with the DG RTD on the following research areas:

- **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**

*For further information, please consult the following web page:
http://www.jst.go.jp/sicp/announce_eujoint_03_GeneralInfo.html

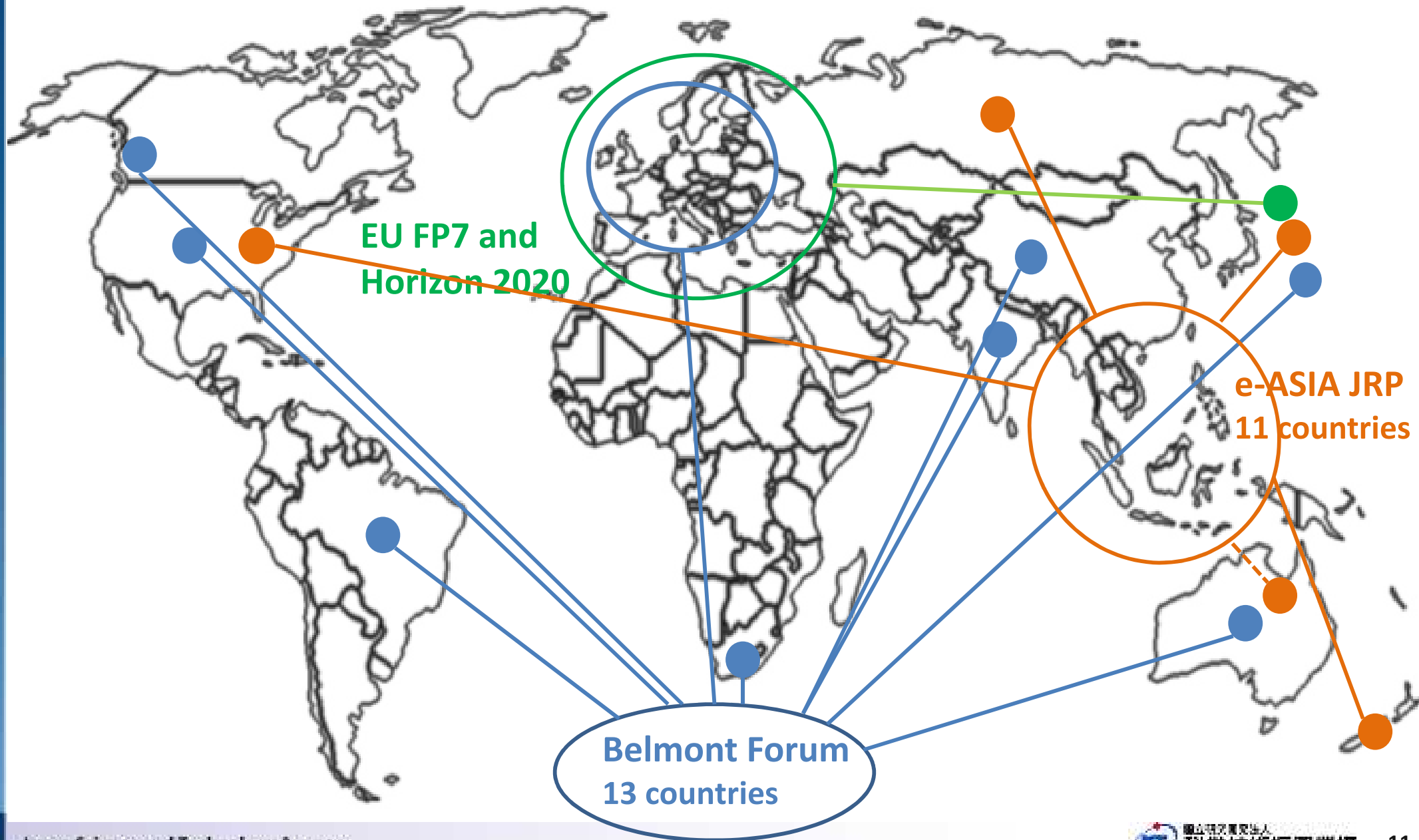
Publication date: 14 October 2015

Deadline: 08 December 2015 17:00 Closed!

2nd stage Deadline: 24 May 2016 17:00

JST's International Activities

- Multilateral Cooperation -



Multilateral Cooperation with SICORP



CONCERT-Japan is an international ERA-NET project funded by the European Commission Framework Programme for Research and Technology Development (FP7)



Consortium : 13 organizations from 9 countries

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

France (CNRS/MAEE*/MESR*) / Germany (DLR/ZENIT/DFG*/BMBF*/MIWF NRW*)

Hungary (BZAKA/NKTH*/NEFMI*) / Italy (CESTEC/RL) / Norway (RCN)

Spain (MICINN) / Switzerland (ETH Zurich)

(*observers)

- ▶ 1st Pilot Joint Call on **“Resilience against Disasters”** and **“Efficient Energy Storage and Distribution”**
 - ➔ 9 projects were adopted from 96 proposals
- ▶ 2nd Pilot Joint Call on **“Photonic Manufacturing”**
 - ➔ 4 projects were adopted from 15 proposals

The activities supported by FP7 was completed on Dec. 2014.

But, **EIG CONCERT-Japan has started** from 2015 without EC support.

We are welcome to participate in the consortium.

EIG CONCERT-Japan (Current Calls for Proposals)

▣ Research area: “Food Crops and Biomass Production Technologies”

▣ Period of the Call for Proposals

Wednesday 10th February 2016 until Thursday 28th April 2016, 20:00 (Japan time)

▣ Details of Support

Research networking and exchange projects selected for funding in this call will receive support for a period of 3 years totaling no more than approximately 18M JPY.

▣ Participating funding agencies

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

▣ Enquiries

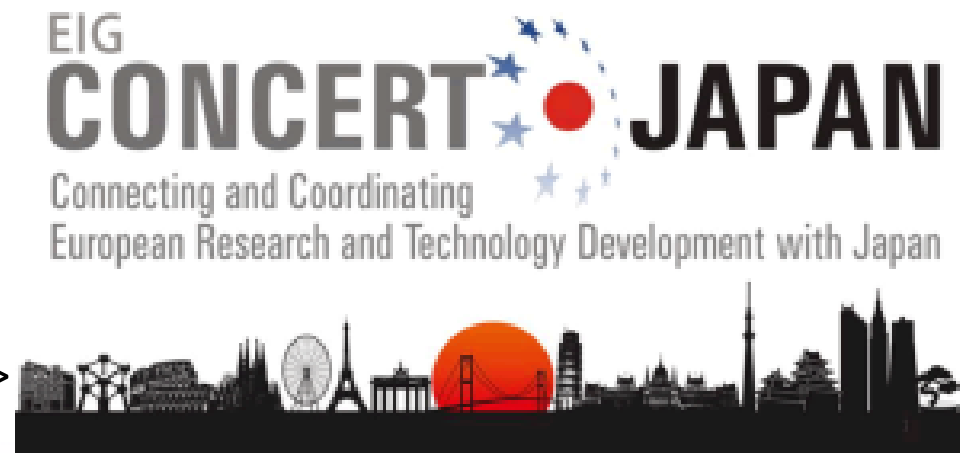
Project Coordinator: JST

Mr. Dai Minowa, Mr. Michael Vogelsanger
and Mr. Martin Gadsden <concert@jst.go.jp>

Joint Call Secretariat:

Centre National de la Recherche Scientifique (CNRS)

Ms. Sandrine Plaud-Guérin <concert-japan-jcs@cnsr.fr>



Multilateral Cooperation with SICORP



UK (NERC)

Germany (BMBF/ DFG)

France (ANR)

Austria (BMWF)

Norway (RCN)

South Africa (NRF)

Japan (MEXT/JST)

Australia (CSIRO)

China (NSFC)

India (MoES)

U.S.A (NSF)

Brazil (FAPESP)

Canada (NSERC)

ICSU

ISSC

15 organizations and 2 international councils

- ▶ A forum for national scientific funding agencies to collaborate in addressing the challenges and opportunities of global environmental change.
- ▶ JST is cooperating for “Collaborative Research Action: CRA”
- ▶ Countries (institutions) can participate depends on the topics of call for proposals.

CRA for Belmont Forum

▶ 2012 :

1) “Freshwater Security”

2) “Coastal Vulnerability”

⇒ 6 projects were accepted out of 77 proposals for “Freshwater Security”

⇒ Any Japanese cooperative proposals were not accepted

▶ 2013:

1) “E-Infrastructures and Data Management”

2) “Food Security and Land Use Change ”

▶ 2014:

1) “Scenarios of Biodiversity and Ecosystem Services”

2) “Arctic Observing and Research for Sustainability”

▶ 2015:

1) “Mountains as Sentinels of Change”

2) “Climate Predictability and Inter-Regional Linkages”

JST Database

<http://www.jst.go.jp/inter/db/index.html>

JST Project DataBase (β) Japan Science and Technology Agency

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Program Programs covered in this DB

Keyword

More search options

Search Reset

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Keyword

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Search Reset

(Last updated: October 2, 2013)

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JST Project DataBase (β)

Program Programs covered in this DB

Keyword

More search options

Search Reset

- CREST
- PRESTO
- ERATO
- ALCA
- BATREPS
- W-ASIA JEP
- SICORP
- SIOP
- OTHERS



1 1/1 TOTAL:6

Program	Project Title	Research Field/Area	
	Principal Investigator/Organization (JP side)	Supported Period (FY)	
	Principal Investigator/Organization	Country/Area	Counterpart Funding Agency
CREST	Development of stay-green plants through genetic modification of chloroplast functions	Asumi Tanaka Professor, Hokkaido University	Creation of Essential Technologies to Utilize Carbon Dioxide as a Resource Through the Enhancement of Plant Productivity and the Exploration of Plant Products 2011-2016

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Further information

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



Global Activities

JST Japan Science and Technology Agency

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Japanese

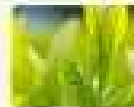
JST Home > Global Activities

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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Washington D.C. Office

Director: Mr. Shigeru KITABA
 Deputy Dir.: Ms. Naoko YASUO
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Paris Office

As the sole JST's center in Europe, JST Paris Office is primarily engaged in the following kinds of activities:

- Support for the overseas extension of JST programs
- Collection and Dissemination of European S&T Information
- Enhancing the presence of science and technology of Japan

Members	
Yuji KATO (Mr.)	Director
Kumiko NAKAYAMA (Ms.)	Deputy Director
Mao TAKEUCHI (Ms.)	Researcher
Toshiyuki YAMASHITA (Mr.)	Assistant



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Thank you for your attention

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Paris Office

Japan Science and Technology Agency