

# **Press Conference President of JST**

**October 19, 2017**



**Japan Science and Technology Agency**

# **International Strategy of JST in the era of Competition and Co-creation**



**Japan Science and Technology Agency**

# Internationalization under JST Reforms

## From the HAMAGUCHI Plan :

1. An advanced network-based research institute that promotes unique, challenging & high-impact R&D
  - a. ...
  - b. Creation of innovation ecosystems & ...
  - c. Introduction of an appropriate open science model
  - d. Further promotion of internationalization**
2. A visionary R&D strategy for co-creation of the future with society
  - a. Strengthening structured intelligence related to STI
3. Cultivation of human resources for STI
  - a. Cultivation of human resources who proactively take the lead in the promotion of challenging R&D
  - b. Nurturing young researchers through R&D programs
  - c. Increasing diversity, essential for processes of innovation**



# JST's International Strategy (Revised on August 2017)

## 100% Global

### □ Internationalization as

- a means to **stay on the cutting-edge** of STI
- a platform to **exchange/share** knowledge and expertise
- a effective way to **increase diversity** and probability of innovation

### □ Three key points for internationalization

- **Openness and paradigm shifts**
- **Building highly advanced R&D capacity and promote mobility of talent**
- **Contribution to the realization of global goals**

# The situation around us and what is necessary

**JST strives to be a leader of innovation based on science & technology**

## Circumstances/opportunities

### Dynamics of STI model

- ❑ Changing modality of innovation (e.g. digital technologies)
- ❑ Tackling global challenges / achieving common goals (e.g. SGDs)
- ❑ More openness (open science, open innovation, etc.)

## Needs

- ◆ Keeping our R&D world class
- ◆ Implementation of Japanese STI policy (Society 5.0, etc.)
- ◆ Increasing diversity as an essential source of innovation
- ◆ Staying in the global circulation of talent

**Global points of view  
and internationalization  
are essential !**

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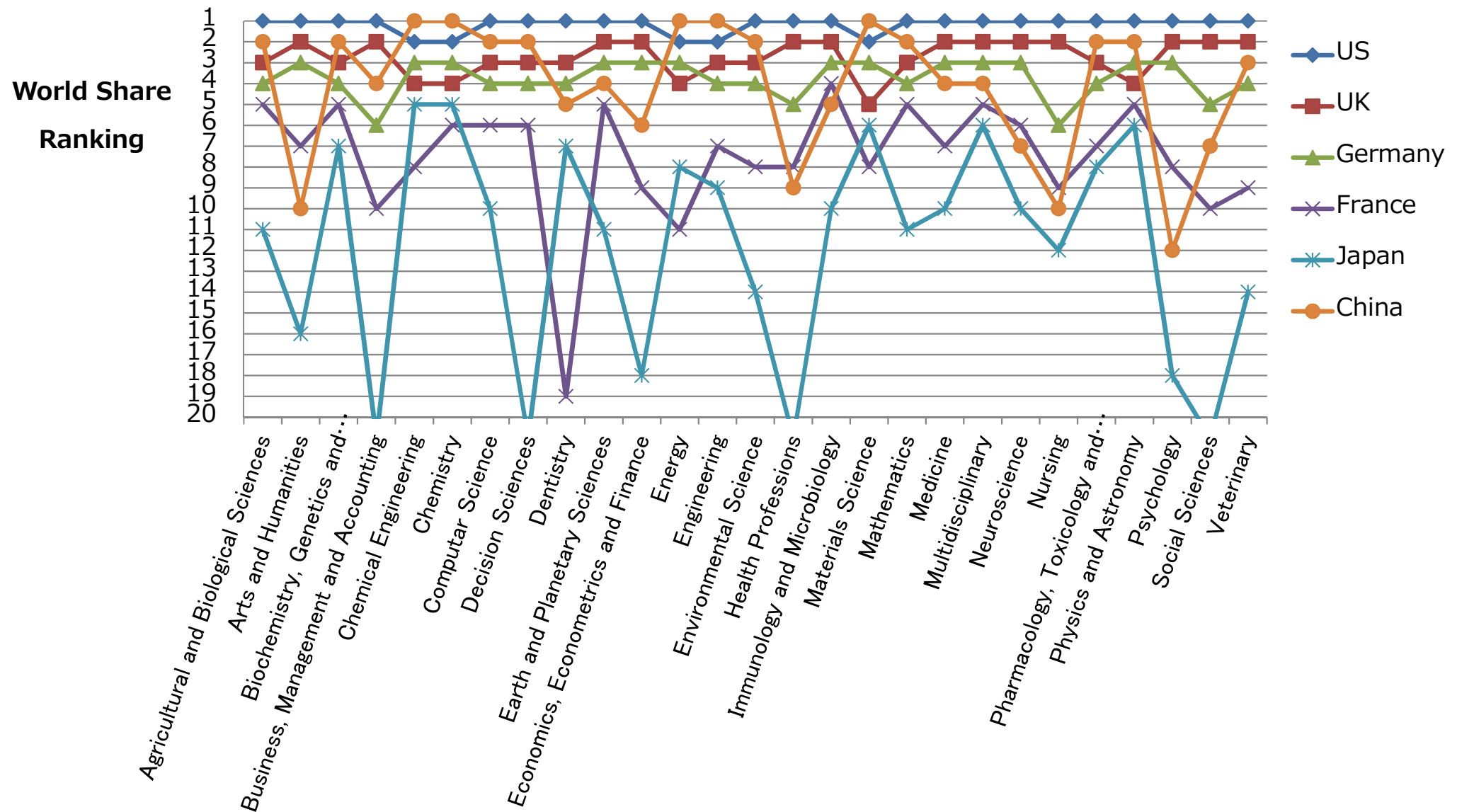
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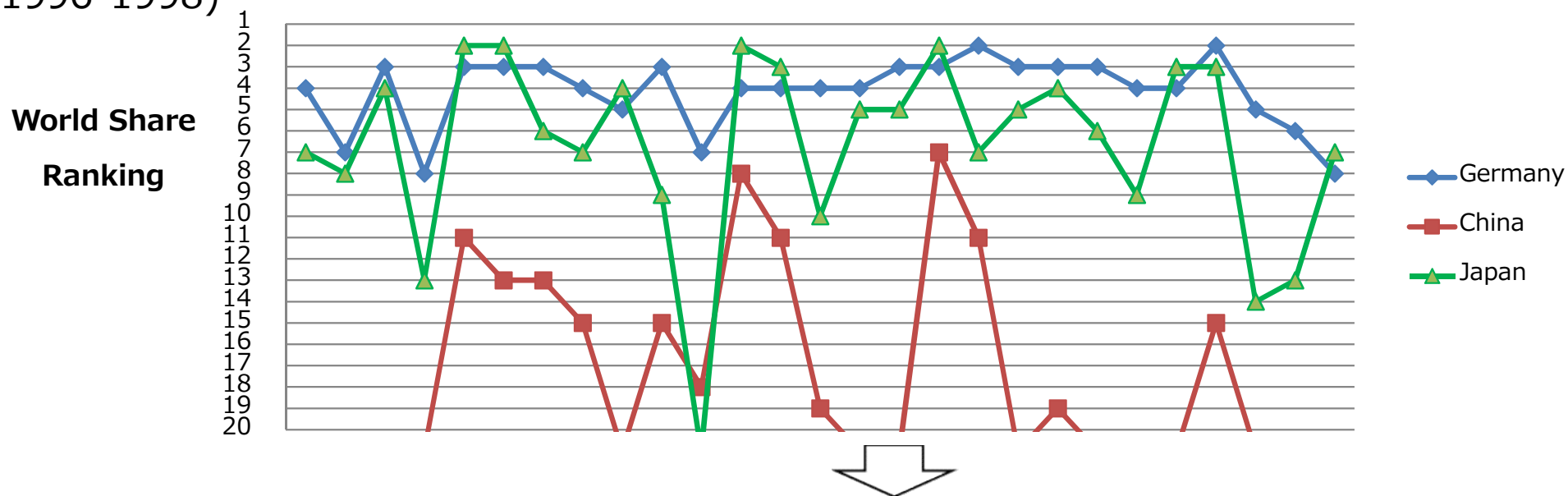
# Ranking on the International Share of the Adjusted Top 10% Papers by Countries



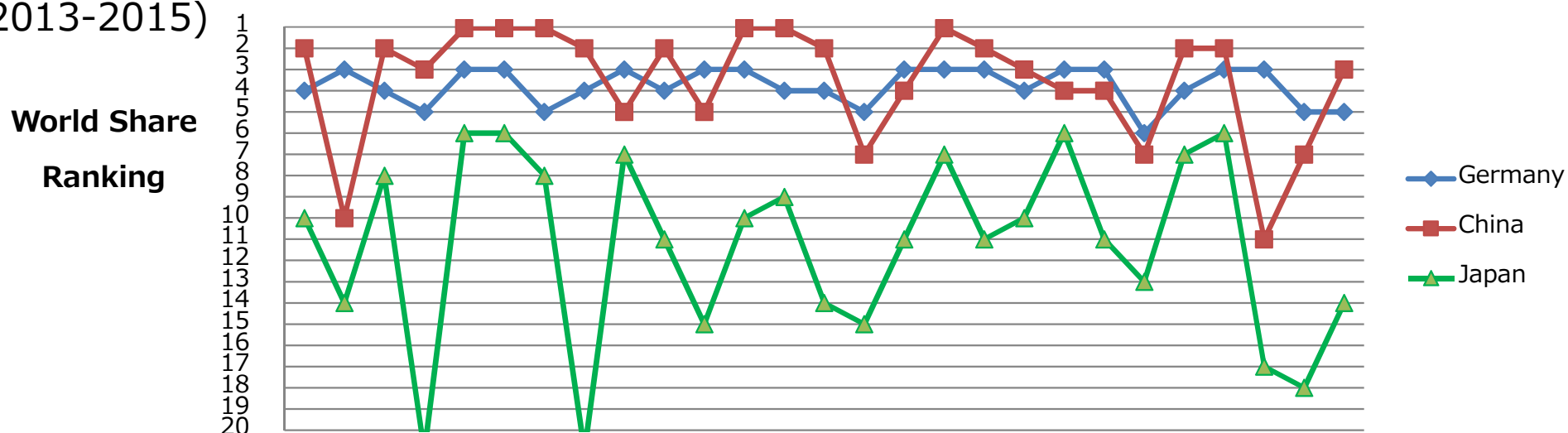
Source: Aggregated by the JST based on the Scopus Database (1996-2015) (Elsevier Co., Ltd.)

# Japan, China, and Germany's Transition in the Share of the Adjusted Top 10% Papers

(1996-1998)



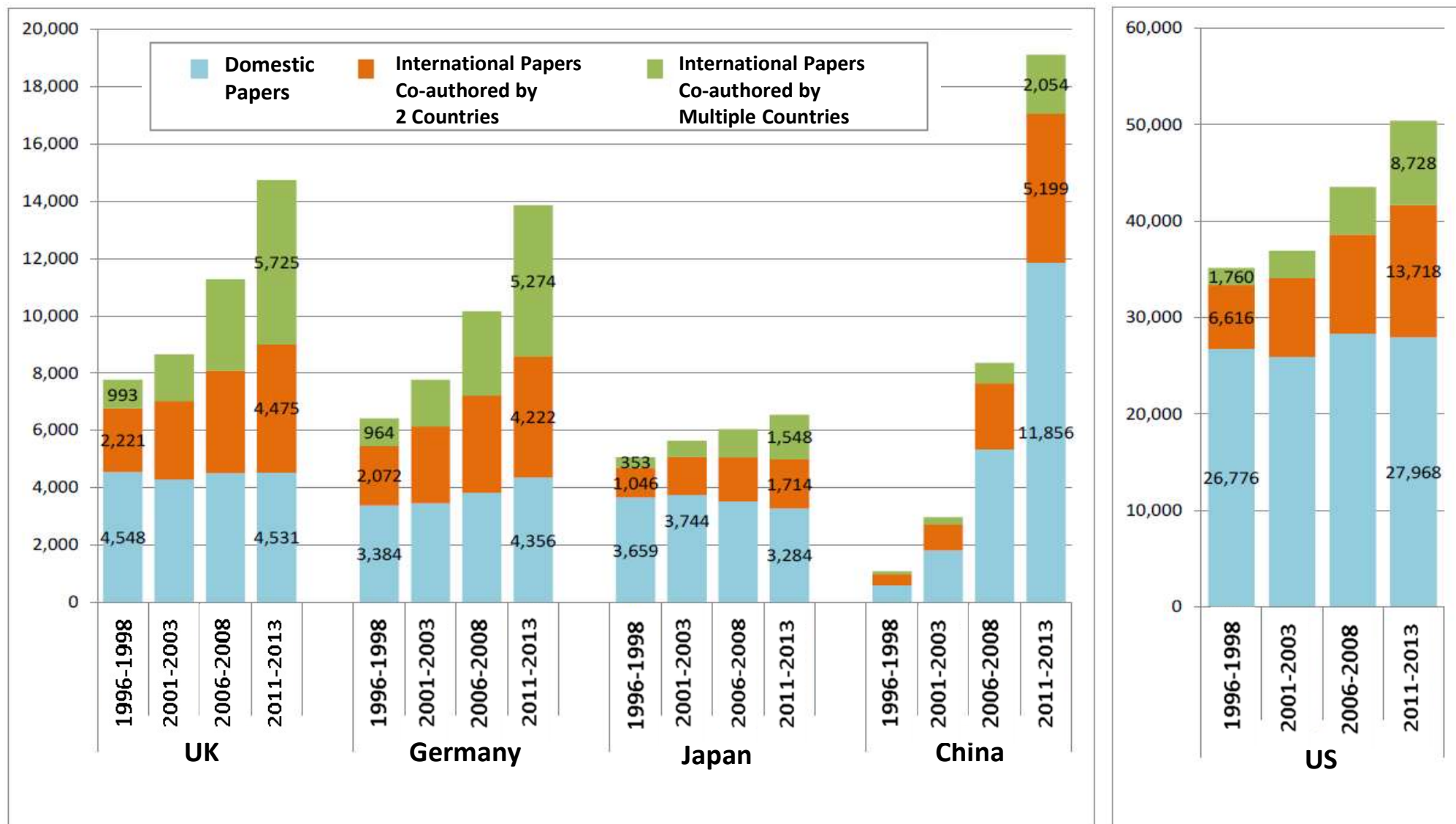
(2013-2015)



Source: Aggregated by the JST based on the Scopus Database (1996-2015) (Elsevier Co., Ltd.)



# International Co-authorship in Top 10% Highly Cited Papers by Major Countries



Source: Processed and produced by JST based on the NISTEP Reference Material 239 "Benchmarking Scientific Research 2015- Bibliometric Analysis on Dynamic Alteration of Research Activity in the World and Japan-"

# International Support by Additional Budget for Existing Projects

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## □ Primarily supports aiming for the achievement of strategic goals

- Collaborative research performed by top scientists
- Strategic cooperation between S&T advanced nations
- Promoting global intelligence rotation among top-class researchers
- Fostering global researchers through lectureships.
- Disseminating research results globally through holding workshops and other measures

# Enhancing International Collaboration

Researchers from overseas in FY2017 (Actual and planned numbers)

Programs	Projects	Researchers	Researchers' Countries
CREST	40	68	20
ERATO	4	7	5
ACCEL	4	5	4
<b>Total</b> numbers	<b>48</b> projects	<b>80</b> researchers	<b>21</b> countries

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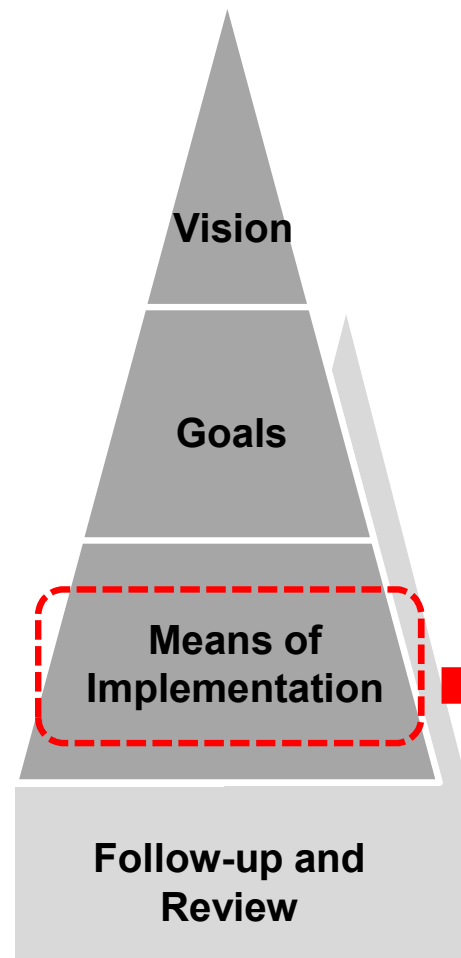
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# Contribution to Achievement of SDGs

JST established STI for SDGs Task Team on September 1, 2017 inside JST, in which managers of each divisions are designated to work.



- People
- Planet
- Prosperity
- Peace
- Partnerships



- 17 Goals, 169 Targets



- Financing for Development
  - **Science, Technology and Innovation**
  - Institutions/capacity building, trade, partnerships, data
- High Level Political Forum
  - Global Indicator Framework

# Sharing Activities of STI for SDGs Task Team

## Open Science Forum

- 2016.11.03 Keynote session at Science Agora 2016, Tokyo
- 2016.12.09 Session at Science Forum in South Africa, Pretoria
- 2017.02.17 Workshop on STI for SDGs at AAAS annual meeting in Boston

## UN Systems and related Events

- 2016.11.29 Summit on Science and Technology Enablement for SDGs, New York
- **2017.05.15-16 UN STI forum in New York**
- 2017.07.13-14 UN High Level Political Forum in New York

## Platform among stakeholders in Japan

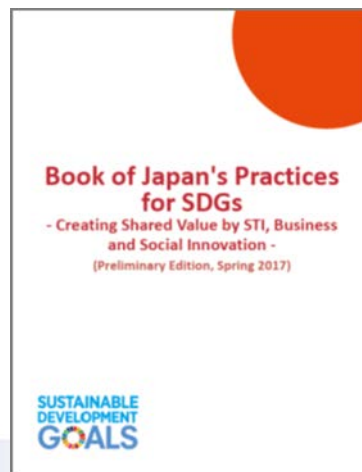
- 2017.02.14 First stakeholders meeting on STI for SDGs, Tokyo
- 2017.06.22 Second stakeholders meeting on STI for SDGs, Tokyo
- 2017.09.05 Open Symposium on “SDGs and STI” at UN University, Tokyo
- 2017.10.11 Third stakeholders meeting on STI for SDGs, Tokyo



# Holding a Side Event at the UN STI Forum Discussing Roles of SATREPS for achieving SDGs

- The side event was co-hosted by the Permanent representative to the UN, World Bank, Japan Science and Technology Agency (JST), Japan International Cooperation Agency (JICA), and Japan Agency for Medical Research and Development (AMED).
- At the event, about 100 people participated and discussed innovative solutions, global capacity, and co-creating partnership with examples of SATREPS in which not only Japan, but developing countries also contribute to the realization of the SDGs.
- *Book of Japan's Practices for SDGs*, in which illustrates Japan's initiatives for SDGs by government, academia, and industry, including SATREPS, was distributed.
- At beginning of the plenary session, H.E. Mr. Macharia Kamau, Co-Chair of the STI Forum introduced this booklet as specific activities for attainment of SDGs in front of 700 audience from 100 countries.

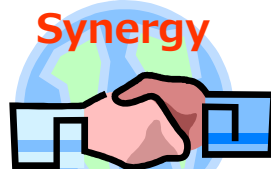
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# SATREPS (Science and Technology Research Partnership for Sustainable Development)

- International joint research for addressing global issues by tie up Japan's advanced S&T with Official Development Assistance(ODA)

Advancing  
Collaboration·  
Synergy



Utilization of diplomacy for the further development of S&T

Utilization of S&T for diplomatic purposes

Counterpart Country  
Research Institutions

International  
Joint Research

Japan  
Research Institutions

Technical  
Cooperation

For addressing global issues

R&D Support

MOFA·JICA(ODA)

Collaboration

MEXT·JST / AMED



# Research Fields and Objectives of SATREPS

## □ Research Fields and Areas

- Environment and Energy (Global-scale Environmental Issues, Low Carbon Society/Energy) • Bioresources
- Disaster Prevention and Mitigation • Infectious Disease Control

\* Transferred to AMED in 2015FY

## □ Objectives

1. Enhancing international cooperation in science and technology between Japan and developing countries.
2. Acquiring new knowledge and technology that lead to the resolution of global issues and the advance of science and technology, and through this process, creating innovations.
3. Capacity Development by boosting self-reliant R&D capacity in developing countries.



Utilize Research Outcomes

Vision for Social Implementation is indispensable for SATREPS

# Total of 125 Projects in 47 Countries



\*As of October, 2017 , including the projects in the field of infectious disease control, transferred to AMED

Area	Number of eligible countries	Number of projects
Asia	14	65
Africa	17	32
Latin America/Caribbean	9	20
Others	7	8