

SATREPS

by the Government of Japan

Japan International Cooperation Agency
(JICA)

SATREPS stands for **Science and Technology Research Partnership for Sustainable Development**

- * In FY2008, Japan launched a program called “**SATREPS**” as a framework for **research oriented international cooperation** in order to resolve global issues **by merging the ODA and domestic research funds.**
- * SATREPS is implemented jointly by the following three agencies:



Japan International Cooperation Agency (JICA)

provides ODA funds.



Japan Science and Technology Agency (JST)

and



Japan Agency for Medical Research and Development (AMED)

provide Domestic research funds.

Objectives of **SATREPS**

1. Enhancing International Cooperation on STI(Science, Technology and Innovation)

Building win-win relationships between Japan and developing countries.

2. New Technology, New Knowledge, Innovations

Addressing Global Issues and Advancing Science

3. Capacity Development

Boosting self reliant Research & Development capacity and sustainable research systems, training human resources and coordinating networking between researchers.

Research Fields as Main Targets of **SATREPS**

The research fields for SATREPS are **4 fields**, as follows:

- 1 **“Environment and Energy”** (Supervised by JICA & JST)
 - 1-1 Global-scale Environmental Issues
 - 1-2 Advanced Energy Systems for Low Carbon Society
- 2 **“Bio-resources”** (Supervised by JICA & JST)
- 3 **“Natural Disaster Prevention and Mitigation”** (Supervised by JICA & JST)
- 4 **“Infectious Diseases Control”** (Supervised by JICA & AMED)

Reference for Past projects of **SATREPS**

Various DATA, such as Project Examples & Project Statistics. etc, are shown in SATREPS DATA and Reference Volume, as follows.

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DATA and Reference Volume

Japan International Cooperation Agency
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Framework of SATREPS

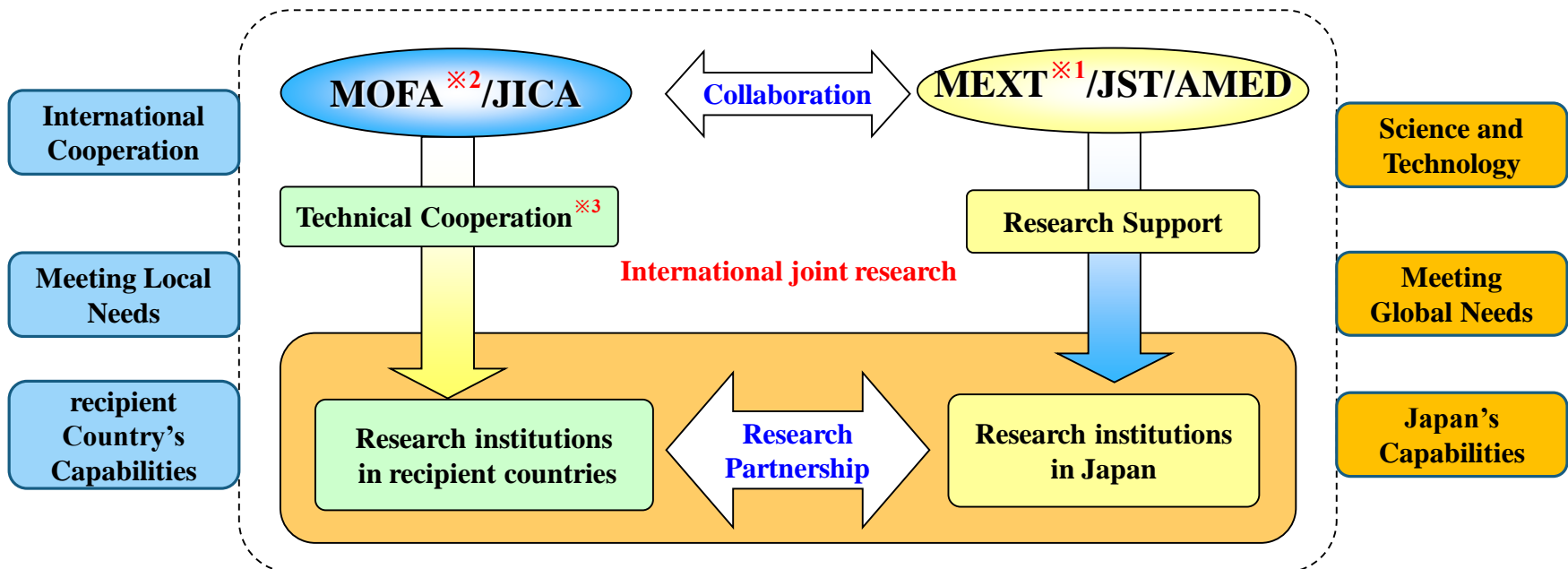
* **JICA** supports for project activities **in the recipient country mainly.**

* **JST /AMED** support for the project activities **in Japan.**

※1: Ministry of Education, Culture, Sports, Science and Technology

※2: Ministry of Foreign Affairs

※3: Mainly, 3 activities can be done, (1) Dispatching Japanese researchers, (2) Inviting counterpart countries researchers, (3) Provision of equipment.



Main Activities in **SATREPS**

SATREPS consists of the following three main components as a Technical Cooperation using ODA Fund.

*** Dispatching Japanese researchers to recipient countries from Japan.**

Japanese researchers will :

- Implement research with researchers in recipient countries in collaboration with.

*** Receiving participants from recipient countries in Japan.**

Participants will:

- have trainings related to STREPS projects.
- Enter Master's/Doctor's degree course in universities.

*** Providing Laboratory Machinery/Equipment to recipient countries from Japan.**

By utilizing these Laboratory Machinery/Equipment :

- Experiment various things related to SATREPS in collaboration with.

Project duration and Budget of **SATREPS**

- * Project duration is **3~5 years**.
- * JICA provides **3~3.5 million USD** for total project period .
- * JST/AMED provides **1.6 ~1.75 million USD** for total project period.

Mainly

- JICA's budget is used for activities described in Page 7.
- JST/AMED's budget is used for other activities in Japan

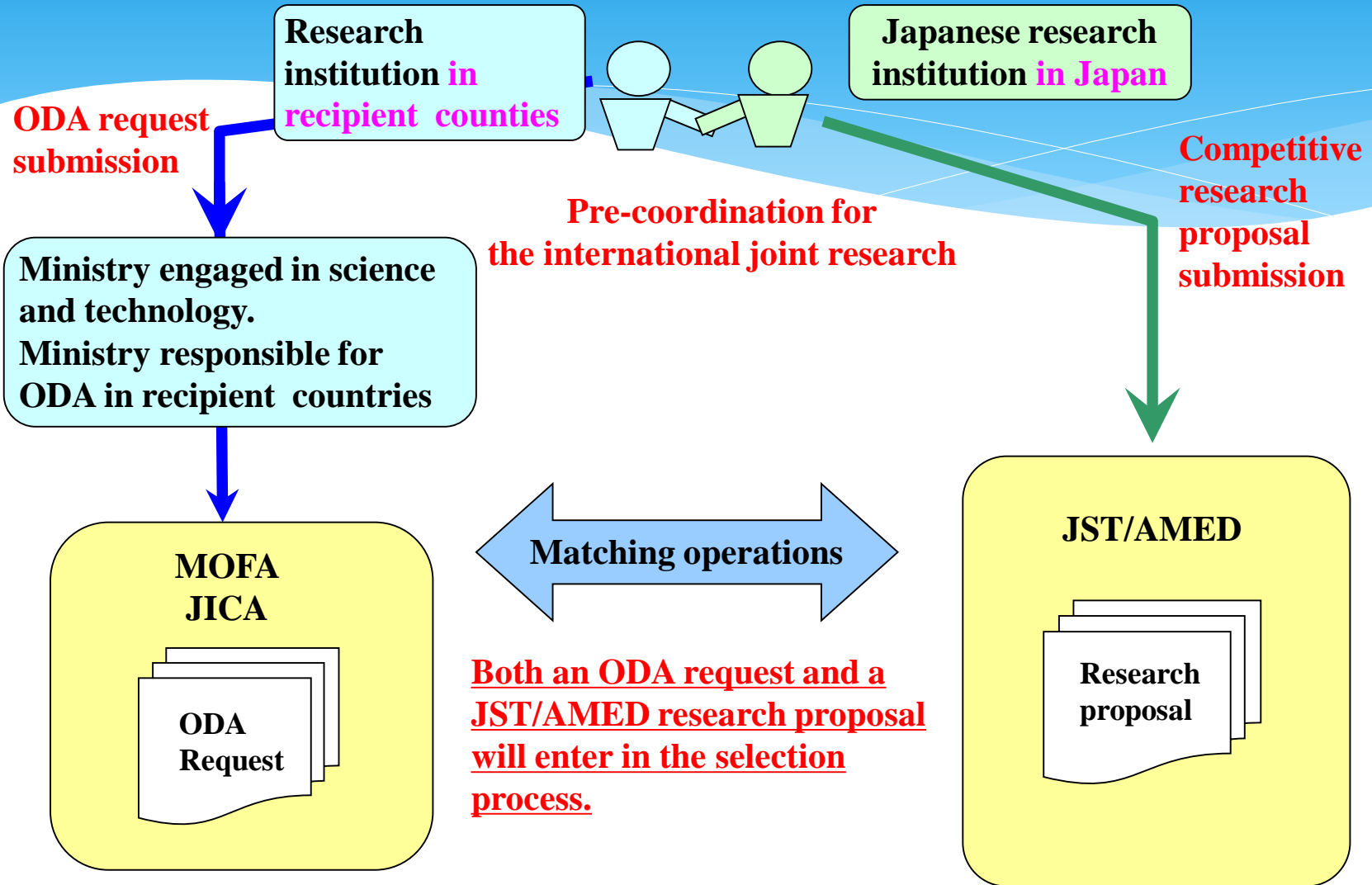
Basic Conditions of SATREPS

- * SATREPS is “Collaborative Research” in both countries. Therefore, both the research institutes, in Japan and in recipient countries, surely must have the relations and friendship for long periods.
Also, both of them should make well discussion and preparation for the project formulation correlatively.
 - JICA never introduce the Japanese partner institutes. It must be found by themselves.
- * The project contents must be machined with the research fields described on P4. Additionally, the contents must be as follows:
 - Be matched with the development strategy in recipient countries.
 - Have the activities to solve the specific issues in recipient countries.
 - Not be only research activities.
 - Have activities to utilize and apply the results of research to solve the issues.

Basic Conditions of **SATREPS**(Cont.)

- * In SATREPS, no cash is provided to the research institutes in recipient countries.
- * The research institutes must also contribute some budgets for the project, such as maintenance fee for provided equipment etc. Cost sharing is required.
The preparation of budget allocation for the project is required.
The Detail will be written in Page 23.

Mechanism for Apply to **SATREPS**



Some notices of **SATREPS** for application

- * ODA Request(The application form) from recipient countries sides, and Research proposal in Japanese side are submitted both at the same time in each countries. One of them only is insufficient.
Therefore, both research institutes should exchange the information for current situation of submission.
- * These application invitation period is **once a year. Usually, from September to November for 2 months**. If miss this occasion, must wait for next year's invitation period.

Some notices of **SATREPS** for application (Cont.)

- * When starting the invitation, **Embassy of Japan makes the notification** to Ministry responsible for ODA in recipient countries.
- * **The application form can be obtained in Ministry responsible for ODA.**
- * Each research institute submits the application form to the line Ministry(supervising Ministry for research institutes) in the invitation period appropriately.

Implementation Process of SATREPS

JICA Technical Cooperation Project

JST/AMED Research Project

ODA request
Submission

Competitive research proposal
Submission

Project selection in Japan

Notification of Selection Result to recipient countries

Detailed Planning Survey (Discussion and formulation for the Project achievement and schedule planning (PDM & PO), other conditions with both research institutes)

Sign of R/D* in both sides

Sign of CRA* in both sides

Project Implementation:
(1) Dispatching Japanese researchers,
(2) Inviting counterpart countries researchers,
(3) Provision of equipment.

Support of research

Mid-term review

Project monitoring in every half year

Terminal evaluation

Project ending

Project end



3-5 years

3-5 years

*R/D: Record of Discussion

*CRA: Collaborative Research Agreement

Discussion and Agreements

Before starting **SATREPS**

- * After project selection, and Notification of Selection Result to recipient countries, **Detailed Planning Survey** is conducted.
- * In the survey, many items and issues for project implementation, conditions, others must be discussed and agreed.
- * Finally, **R/D(Record of Discussion)** must be agreed, based on the result of the Detailed Planning Survey.

Contents of Discussion and Agreements in Detailed Planning Survey of **SATREPS**

* PDM(Project Design Matrix) and PO(Plan of Operation) are discussed, and agreed.

Their contents are as follows:

PDM(Project Design Matrix) includes:

- Overall Goal, which shows the achievements after 5 years of the Projects completion.
- Project Purpose
- Outputs by executing the Project
- the Project Activities
- Inputs from both sides during the Project

PO(Plan of Operation) includes:

- Time schedule of each activities described in PDM

Example of PDM

Narrative Summary	Objectively Verifiable Indicators
Overall Goal	
Qualified human resources in agricultural sector are produced by YAU.	<ol style="list-style-type: none"> 1 The satisfaction level among the Ministry of Agriculture Livestock and Irrigation (MoALI), agricultural private companies and International organizations who employed YAU graduates is increased by 20% three years after the completion of the comparison to 2017-18FY. 2 The number of graduate students enrolled in YAU increase by 30% in 2023-2024FY in comparison to 2015-16FY.
Project Purpose	
Education and research foundation* for practice-oriented research is enhanced in 9 departments** of YAU;	<ol style="list-style-type: none"> 1 The frequency of use of laboratory and machineries installed in 9 departments is increased by XX%. 2 The time allocated to laboratory experiments and field research works among academic staff and students in 9 dep increased by XX% 3 The average number of academic papers/head/year published in domestic or international journals is doubled by 2024 in comparison to 0.24/head/year in 2015.
Outputs	
<ol style="list-style-type: none"> 1 Management system to promote research and education is improved in YAU. 2 The Curriculum and teaching capacity of academic staff are improved in 9 departments of YAU. 3 The research capability of academic staff is enhanced in YAU. 	<ol style="list-style-type: none"> 1.1 Long-term strategic plan related to education and research is formulated in YAU. 1.2 Annual action plan is formulated and implemented every year from 2017-18FY. 1.3 The operational guidelines for the long-term strategic plan and annual action plans are developed. 1.4 Annual progress report regarding the achievement of the long-term strategic plan and annual action plan is published every year from 2018FY. 2.1 Curriculums of 9 departments of YAU are reviewed once a year from 2017-18FY and a plan for revision is formulated. 2.2 Syllabuses and teaching materials of 9 departments of YAU are reviewed and revised at least once (1) a year from 2017-18FY. 2.3 Regular training program for improving teaching capacity of academic staff is formulated. 3.1 Research plan is formulated for pilot research projects. 3.2 Regular training program/ periodical seminars for enhancing research capabilities of academic staff is formulated. 3.3 More than 50% of pilot research project published research papers until 2019-20FY.
Activities	Inputs
<ol style="list-style-type: none"> 0.1 Conduct baseline survey 0.2 Implement project monitoring on a regular basis 1.1 Set up a Task Force on planning and management for education and research activities of YAU 1.2 Analyze and revise existing planning and management system of YAU regarding education and research activities 1.3 Analyze and revise existing long-term strategic plan and annual action plan regarding education and research in YAU 1.4 Assess progress and achievements of the revised long-term strategic plan and annual action plan on a regular basis 1.5 	<p>The Myanmar Side YAU</p> <ol style="list-style-type: none"> a) Space and building for project office b) Research facilities, equipment and machineries c) Counterparts d) Running cost such as electricity, water, internet access and domestic travel allowance for YAU personnel <p>MOAI</p> <ol style="list-style-type: none"> a) Counterparts (JCC member) <p>The Japanese Side</p> <ol style="list-style-type: none"> a) Long-term experts: 3 experts (Chief Adviser/ University Management, Project Coordinator, Teaching Improvement/ Agricultural Research (one expert can hold two fields concurrently)) b) Short-term experts

Example of PO

			Schedule																							
			Fiscal Year		2015				2016				2017				2018				2019				2020	
			Quarter	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2			
Activities	0.1	Conduct baseline survey																								
	0.2	Implement project monitoring on a regular basis																								
Output 1	Management system to promote research and education is improved in YAU.																									
Activities	1.1	Set up a Task Force on planning and management for education and research activities of YAU		done																						
	1.2	Analyze and revise existing planning and management system of YAU regarding education and research activities																								
	1.3	Analyze and revise existing long-term strategic plan and annual action plan regarding education and research in YAU																								
	1.4	Assess progress and achievements of the revised long-term strategic plan and annual action plan on a regular basis																								
	1.5	Formulate a guideline for the preparation and operation of the above plans																								
Output 2	The Curriculum and teaching capacity of academic staff are improved in 9 departments of YAU.																									
Activities	2.1	Set up a Task Force on curriculum development and teaching improvement		done																						
	2.2	Review and revise the existing curriculums in 9 departments, and develop curriculum maps																								
	2.3	Implement monitoring on teaching performance targeted young and mid-career academic staff in 9 departments on a regular basis																								
	2.4	Implement an in-service training program and formulate a manual for the training program																								
	2.5	Review and revise the existing syllabuses and teaching materials in 9 departments																								

Contents of Discussion and Agreements in Detailed Planning Survey of **SATREPS** (Cont.)

* “Basic Principles for Technical Cooperation” is discussed and agreed.

“Basic Principles for Technical Cooperation” is shown in the following site.

https://www.jica.go.jp/english/our_work/types_of_assistance/tech/op_info/basic.html

Operational Information for Technical Cooperation

Basic Principles for Technical Cooperation

Basic Principles for Technical Cooperation (BP) are applicable for all Technical Cooperation Projects and Technical Cooperation for Development Planning starting from April, 2017.

- [English \(January 2022\) \(PDF/236KB\)](#) (For the projects whose applications are submitted by project proponents on and after April 1, 2022)
- [English \(December 2016\) \(PDF/190KB\)](#) (For the projects whose applications are submitted on and before March 31, 2022)

1. BP is a part of individual records of discussions, and specifies principles commonly applied to all records of discussions.
2. BP listed above is a template and the sections may be modified in individual records of discussions in accordance with particular nature of projects.

Contents of Discussion and Agreements in Detailed Planning Survey of **SATREPS** (Cont.)

The contents of “Basic Principles for Technical Cooperation” is as follows:

Basic Principles for Technical Cooperation Table of Contents

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III. Implementation Structure	2
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V. Reporting	4
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Contents of Discussion and Agreements in Detailed Planning Survey of **SATREPS** (Cont.)

The contents of “Basic Principles for Technical Cooperation” is as follows:(Cont.)

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Contents of Discussion and Agreements in Detailed Planning Survey of **SATREPS** (Cont.)

* Several conditions are discussed and agreed.

The following subjects are discussed, such as,

- Project title
- Project target area
- Project duration
- Project framework
- Project implementation structure
- Provided Equipment list
- Division of the project costs
- Member of Joint Coordination Committee(JCC)
- Operation and maintenance of the equipment
- Collaborative Research Agreement

Preparation of the project costs (Undertakings of the Counterpart)

* In “Basic Principles for Technical Cooperation”, Undertakings are defined, as follows:

IV. Undertakings of the Counterpart

Section 4.1 Grant of Privileges, Exemptions, Benefits to JICA, the members of JICA missions and the JICA experts

The Counterpart and the government of the recipient country will take necessary measures to grant JICA, the members of JICA missions and the JICA experts privileges, exemptions and benefits in accordance with international agreements concluded between the government of Japan and the government of the recipient country.

Section 4.2 Provision of Conveniences for the members of JICA missions and the JICA experts

The Counterpart and the government of the recipient country will take necessary measures to provide conveniences listed hereto at its own expense;

- (1) Information as well as support in acquiring suitable furnished accommodation for the JICA experts and their families;
- (2) Information as well as support in obtaining medical service for the members of JICA missions, the JICA experts and their families; and
- (3) Credentials or identification cards as necessary to the members of JICA missions and the JICA experts.

Section 4.3 Provision of Services, Facilities and Local-Cost Bearing for the Technical Cooperation

The Counterpart and the government of the recipient country will take necessary measures to provide services, facilities and local-cost bearing listed hereto at its own expense;

Preparation of the project costs (Undertakings of the Counterpart)(Cont.)

- (1) Services of the Counterpart's personnel;
- (2) Suitable office space for the Project Team with necessary equipment;
- (3) Running expenses necessary for the implementation of Technical Cooperation;
- (4) Expenses necessary for transportation within the recipient country of the equipment provided by JICA for Technical Cooperation Project as well as for the installation, operation and maintenance thereof;
- (5) Supply or replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of Technical Cooperation other than those prepared and provided by JICA;
- (6) Travel allowances for the Project Team for official travel within the recipient country; and
- (7) Available data (including maps and photographs) and information related to Technical Cooperation.

Preparation of the project costs (Undertakings of the Counterpart)(Cont.)

- * Based on “Undertakings of the Counterpart” of “Basic Principles for Technical Cooperation”, the research institutes bears the necessary costs for project implementation.
- * All necessary costs for costs for project implementation **ARE NOT** covered by Japanese side.

The R/D(Record of Discussion)

- * In the occasion of Detailed Planning survey, Through the discussion, finally The Minutes of Meetings(M/M) is agreed, and signed among basically both research institutes and JICA.
- * After that, **R/D(Record of Discussion) attached with PDM and PO, M/M is agreed**, and, signed among basically including necessary organizations for project implementation, such as line Ministry(supervising Ministry for research institutes), Ministry responsible for ODA, ect in both sides.

The time schedule for **SATREPS**

The following schedule is shown, from applying SATREPS to ending SATREPS **in general**

**Invitation to recipient countries
/Apply Projects to Japan**

Between September and November,
every year



Project Selection in Japan

Between December and (Next
year)April



**Notification of Selection Result to
recipient countries**

(Next year)May



The time schedule for **SATREPS** (Cont.)



Implementation Detailed Planning Survey

Between (Next year)June and (the year after next)January



Agreement R/D

Must be agreed by (the year after next)March



Project launching

From (the year after next)April ~



The time schedule for **SATREPS** (Cont.)

Project implementation

For 3 ~5 years, based on the agreement in R/D



Project ending

After 3 ~5 years of project launching, based on the agreement in R/D

Other notices of SATREPS

- * SATREPS is not “Entrustment business” to recipient research institutions. Therefore, only cash never be transferred to recipient research institutions.
This is “Collaborative Research” with both research institutions.
- * The competitive rate of selection is regularly 10 times for all research proposal every year.
Therefore, deeply well considered, sophisticated, executable research proposal should be formulated.

Other notices of **SATREPS**

* JST issues the following SATREPS documentations(English Version). Please see as a reference.

- General Framework for SATREPS:

https://www.jst.go.jp/global/public/shiryu/jigyoshiryu_en.pdf

- Other SATREPS examples(Past & Ongoing SATREPS projects) :

https://www.jst.go.jp/global/english/public/shiryu/satreps_brochure_e_w eb.pdf?202202

Thank you for your kind attention.

Japan International Cooperation Agency
(JICA)