New funding scheme centering on implementation of STI

Accelerating Implementation of Research Results to Achieve the SDGs

https://www.jst.go.jp/global/axis/en/index.html

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Japan Science and Technology Agency

Aims of aXis

1. To accelerate implementation of Japan's STI achievements in developing countries and to transfer the STI achievements overseas

2. To help partner countries achieve the SDGs (Sustainable Development Goals)
   〜 Tackling global issues and advancing science 〜

3. To help establish cooperative relationships with partner institutes in developing countries

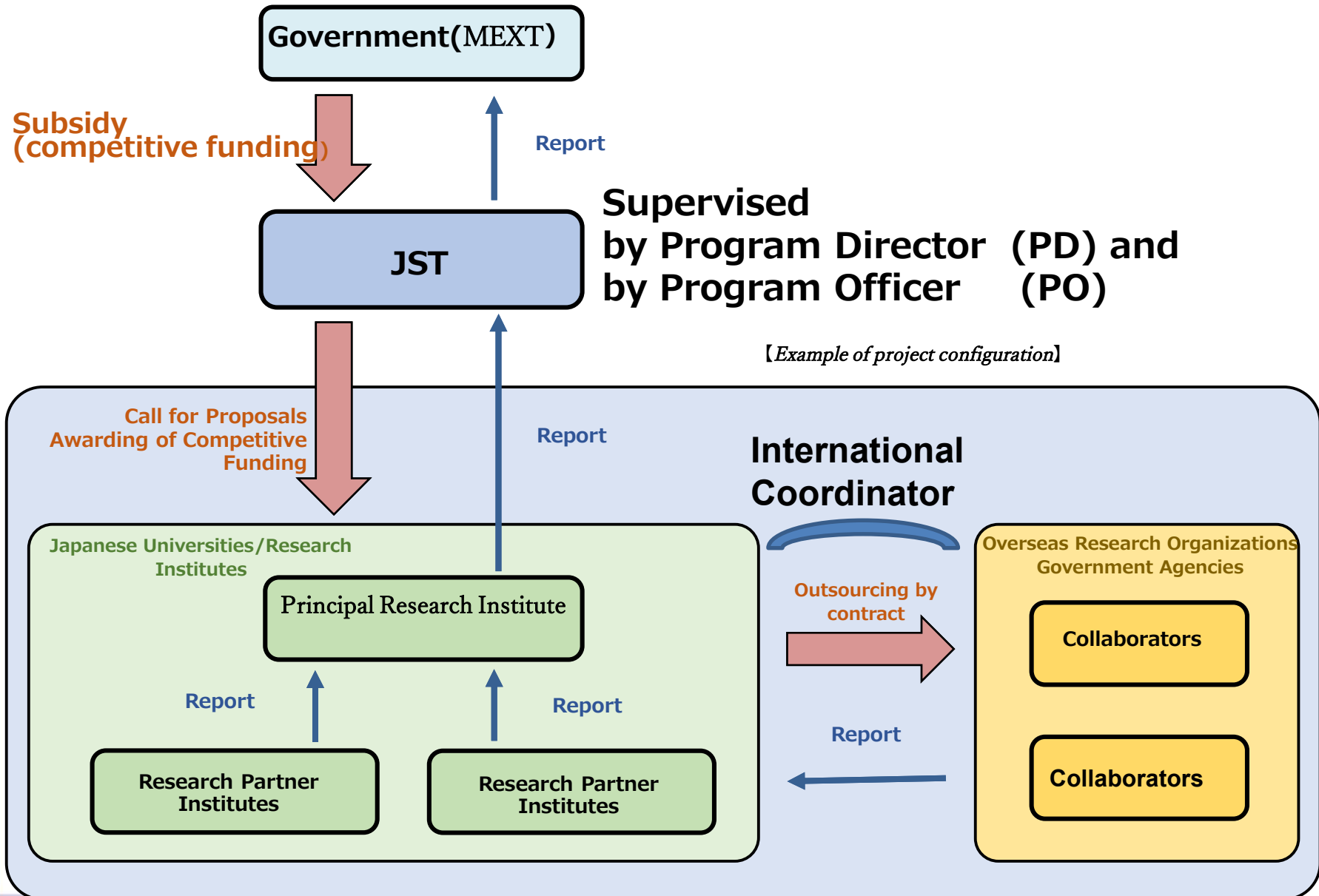〜Expects outcomes to make a real contribution to society 〜

About aXis 1/2

aXis by Type and Covered Area

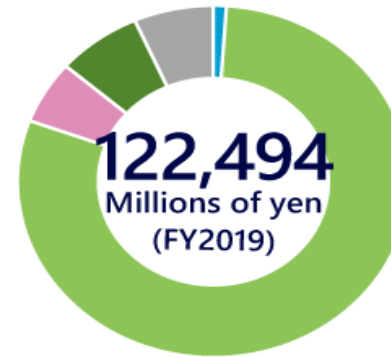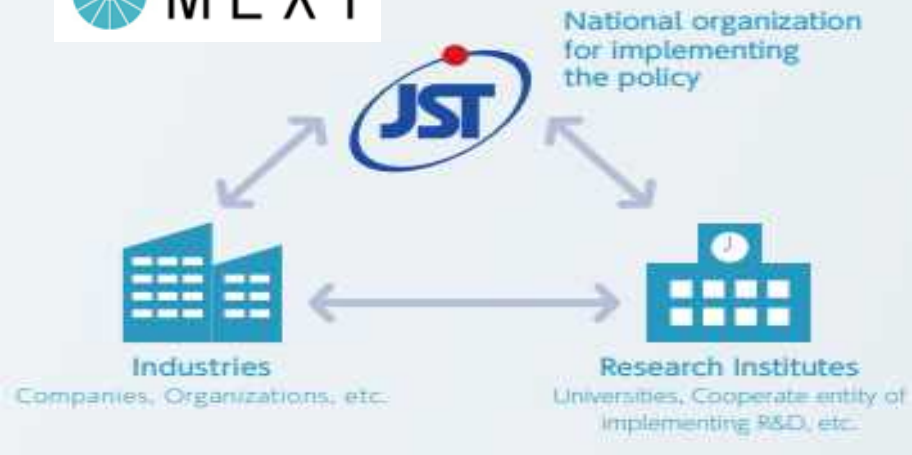| Area	Type A	Type B	Total
Environment and Energy	5	5	10
Bioresources Utilization	2	3	5
Disaster Prevention and Mitigation	3	2	5

- Type A   10 projects
- Designed to put emphasis on implementation
- Type B   10 projects
- Tuned for feasibility studies (FS) for future implementation

aXis by Country/Type/Research Area

	Type A			Type B		
	Environment and Energy	Bioresources Utilization	Disaster Prevention and Mitigation	Environment and Energy	Bioresources Utilization	Disaster Prevention and Mitigation
Bangladesh					1	
Cambodia				1		
Ghana	1(*)				1	
India				1	1	
Indonesia	1		1			
Kazakhstan				1		
Kenya		1				
Madagascar				1		
Malaysia	1					
Mexico			1			
Mozambique						1
Myanmar						1
Nepal	1(*)					
Philippines			1			
Thailand				1		
Vietnam	1	1				
Zambia	1					

Scheme of aXis

s.

Government(MEXT)

Subsidy
(competitive funding)

Report

JST

**Supervised
by Program Director (PD) and
by Program Officer (PO)**

【*Example of project configuration*】

Call for Proposals
Awarding of Competitive
Funding

Report

**International
Coordinator**

Japanese Universities/Research
Institutes

Principal Research Institute

Report

Report

Outsourcing by
contract

Overseas Research Organizations
Government Agencies

Collaborators

Report

Research Partner
Institutes

Research Partner
Institutes

Collaborators

JST at a glance

MEXT

National organization for implementing the policy

JST

Industries
Companies, Organizations, etc.

Research Institutes
Universities, Cooperate entity of implementing R&D, etc.

122,494
Millions of yen
(FY2019)

- R&D Strategy Planning
- Funding Programs
- Public Engagement
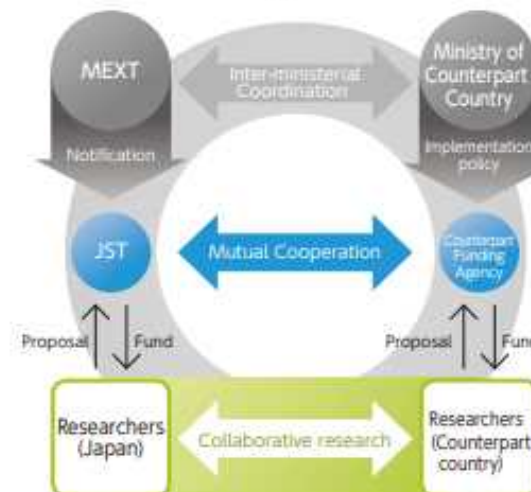- Information Platform and Database Services, etc.
- Others

International Collaborations by JST
committed to expanding the range of collaboration opportunities for Japanese researchers, so ensuring continuous joint innovation and contribution to global challenges.

Science and Technology Research Partnership for Sustainable Development (SATREPS)
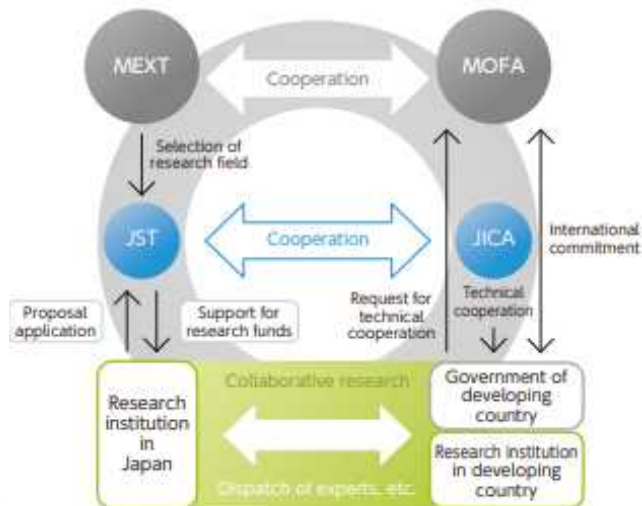
Strategic International Collaborative Research Program (SICORP)

aXis Type A

Field	Research Themes	Principal Investigator	Affiliation	Title	Partner Country
Environment and Energy	Implementation and Effectiveness Verification of Risk-based Control Approaches for Lead Contaminated Environment and Lead Poisoning in Zambian Mining District	ISHIZUKA Mayumi	Hokkaido University	Professor	Zambia
	Development of Elemental Technology and Creation of New Industry toward Social Implementation of Sustainable Natural Rubber Ecosystem	KAWAHARA Seiichi	Nagaoka University of Technology	Professor	Vietnam
	Accuracy Improvement and Demonstration by Boring Survey of Steam-Spot Detection Technology for Locating Drilling Sites of Geothermal Production Wells	KOIKE Katsuaki	Kyoto University	Professor	Indonesia
	Commercialization of Biodegradable Nano-Composites in Malaysia	SHIRAI Yoshihito	Kyushu Institute of Technology	Professor	Malaysia
	Reinforcing and accelerating technologies for ensuring domestic water security by water resources diagnosis and decentralized treatment system	NISHIDA Kei	University of Yamanashi	Professor	Nepal / Ghana
Bioresources	Development of endogenous retrovirus (PERV)-free strains utilizing characteristics of Vietnamese native pigs	KIKUCHI Kazuhiro	National Agriculture and Food Research Organization	Research Leader	Vietnam
	Enhancing rice productivity through introduction of improved varieties and advanced cultivation technologies in Kenya	MAKIHARA Daigo	Nagoya University	Associate Professor	Kenya
Disaster Prevention and Mitigation	Study on advancement of real-time hazard prediction of volcanic eruption and verification test for its social implementation	IGUCHI Masato	Kyoto University	Professor	Indonesia
	Applications and demonstrations of Japanese ocean bottom observation system and culturally-tuned disaster education program	ITO Yoshihiro	Kyoto University	Associate Professor	Mexico
	Experimental Implementation of Volcano, Earthquake and Disaster Monitoring Technologies Using Latest UAV, RTKGNSS, and Sensors	INOUE Hiroshi	National Research Institute for Earth Science and Disaster Resilience	Senior Research Fellow	Philippine

aXis Type B

Field	Research Themes	Principal Investigator	Affiliation	Title	Partner Country
Environment and Energy	Scientific Feasibility Study for Verification Project of Sterilizing Effect by Utilizing UV-LEDs and Development of Water Purification Devices to Supply Safe Drinking Water in Cambodia	AMANO Hiroshi	Nagoya University	Professor	Cambodia
	Feasibility study for implementing non-burnt bricks to reduce environmental load and improve working environment in Indian brick manufacturing industry	ARAKI Yoshikazu	Nagoya University	Professor	India
	Assessment of Ecosystem Services of North Western Dry Forests in Madagascar and Potential for Sustainable Development with REDD+	KITAJIMA Kaoru	Kyoto University	Professor	Madagascar
	Preliminary Efforts to Ensure a Safe-environments in Areas Surrounding Uranium Mines in Kazakhstan	SAKAGUCHI Aya	University of Tsukuba	Associate Professor	Kazakhstan
	Development of Electrocatalysts for Zinc Air Secondary Batteries for High Current Density	YONEZAWA Tetsu	Hokkaido University	Professor	Thailand
Bioresources	Creation of new commercial application of chitin nanofibers from prawn shells for agricultural product in Bangladesh	IFUKU Shinsuke	Tottori University	Professor	Bangladesh
	Promotion of domestication of giant rodent grass cutters for environmental protection and food safety in West Africa	KOIDE Tsuyoshi	National Institute of Genetics	Associate Professor	Ghana
	Development and demonstration of high-performance rice breeding support pipeline for semiarid area	Ninomiya Seishi	The University of Tokyo	Project Professor	India
Disaster Prevention and Mitigation	Identifying the vulnerable population using de-identified telecom data and satellite images for enhancing disaster management	SHIBASAKI Ryosuke	The University of Tokyo	Professor	Mozambique
	Large-scale joint experiment to identify issues for strengthening resilience of bridge structures against earthquake disasters in Myanmar	FURUKAWA Aiko	Kyoto University	Associate Professor	Myanmar

Contributing to the SDGs