



# R&D Collaborative Programs with ASEAN by JST



## SATREPS

Science and Technology Research Partnership  
for Sustainable Development Program

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**e-ASIA JRP (East Asia Joint Research Program)**



<http://www.the-easia.org/jrp/>

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## What is the e-ASIA JRP (East Asia Joint Research Program)?

### Concept

**To build a Science & Technology community**  
*to stimulate innovation and development*  
*and*  
*to resolve shared challenges*  
**in the East Asian region**

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## East Asia Joint Research Program (e-ASIA JRP)

### Objectives

1. Cultivate the Asian science and technology community
2. Raise the standard of science and technology in the East Asian region and realize an innovative economy and society
3. Pursue synergistic effects through multilateral cooperation
4. Respect and leverage the diversity in the East Asian region
5. Establish and develop equal partnerships

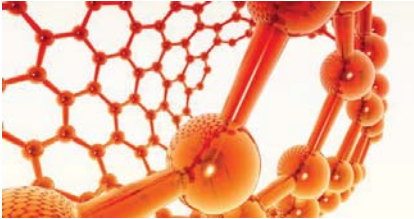


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# East Asia Joint Research Program (e-ASIA JRP)

## Fields of Cooperation



Nanotechnology / Materials



Biomass / Plant Science



Infectious Diseases



Disaster Prevention



Advanced Interdisciplinary Research towards Innovation














Others



# e-ASIA Joint Research Program (e-ASIA JRP)

## Current Members

11 countries 13 organizations (as of February 2014)

 Cambodia MOH	 Indonesia RISTEK	 Japan MEXT (JST)	 Lao PDR MOST MOH	 Malaysia MOSTI*	 Myanmar MOST
 NZ HRC	 Philippines DOST	 Thailand NSTDA	 USA NIAID(NIH) NCI(NIH)	 Vietnam MOST	-

\*Quasi Member

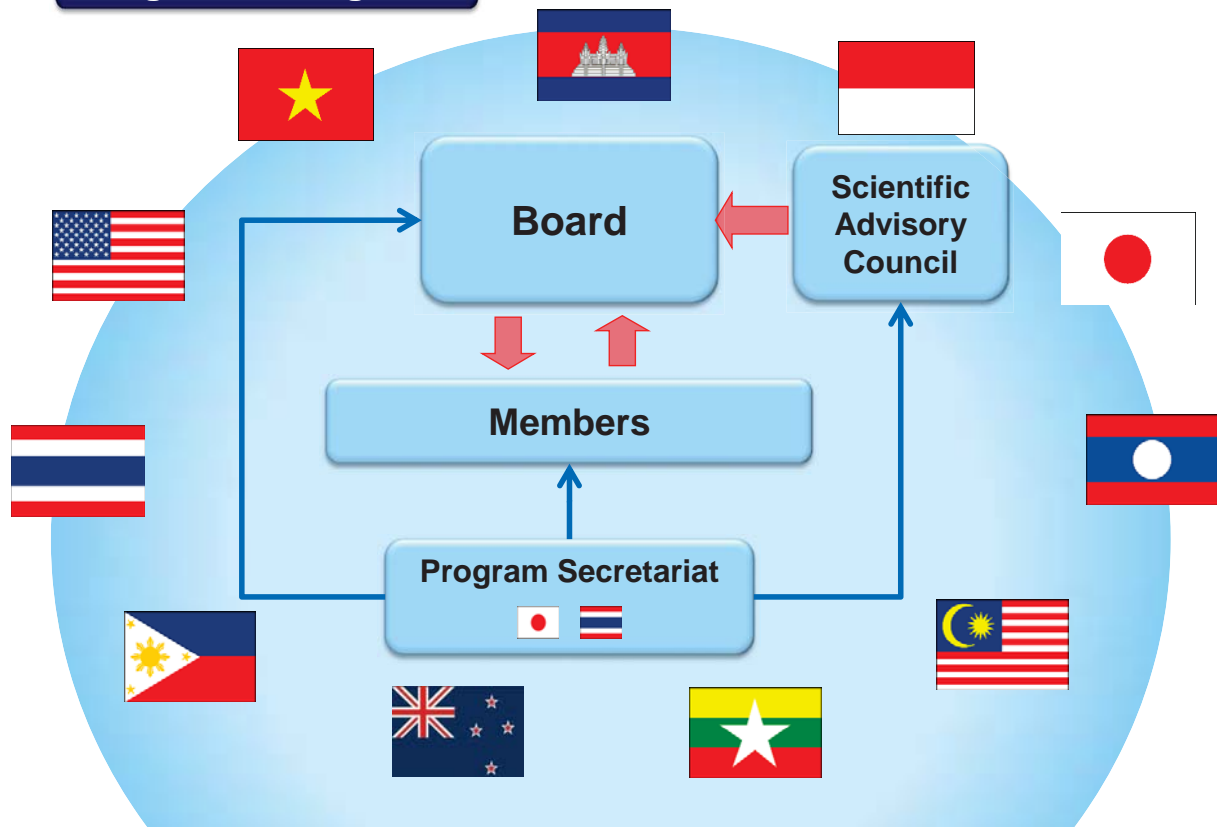
- **Prospective Members:**  
Public funding institutions in the 18 East Asia Summit (EAS) participating countries

For more details → <http://www.the-easia.org/jrp/>



## e-ASIA Joint Research Program (e-ASIA JRP)

### Organs of Program



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## East Asia Joint Research Program (e-ASIA JRP)

### Forms of Cooperation

1. Joint research by multilateral co-funds
2. Research exchange by on-top funding
3. Information exchange (for example, national priorities and best practices)
4. Promotion of research exchange and networking among young researchers

### Mechanism

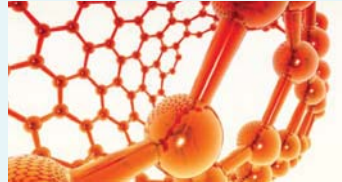
- On a Call by Call basis  
Participating members will decide whether or not to participate
- Co-funds  
Members participating in each Call (min. 3) fund their own researchers: funding should not cross national borders

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### 1st Pilot Joint Call for Proposals

- Participating members:**  
JST (Japan), MOST (Vietnam) and NSTDA (Thailand)
- Fields of research:**  
“Nanotechnology and Materials” and “Biomass and Plant Science”
- Call duration:**  
2<sup>nd</sup> - 31<sup>st</sup> May 2012
- Outcome:**  
2 proposals approved in “Nanotechnology/Materials” (11 received)  
1 proposal approved in “Biomass/Plant Science” (3 received)



### 1st Pilot Joint Call for Proposals

- Budget provided to each project (in total):**

	Japan :	39 million JPY (roughly 390,000 USD)
	Vietnam:	2.5-3.7 billion VND (roughly 120,000-177,000 USD)
	Thailand:	2-5 million THB (roughly 65,000-163,000 USD)

\*All budget items must conform to the rules and regulations of each participating member

- Research project duration: 3 years (36 months)**
  1. Corrosion Mapping of Structural Materials in Asian Area with Understanding Effects of Environmental Factors (Materials)
  2. Plasmonic Bio-Sensor for Detecting Serious Diseases in Southeast Asia (Nano-tech)
  3. Advancement of Asian Cassava Molecular Breeding by Cutting-edge Technologies (Biomass)





## 2nd Pilot Joint Call for Proposals

- Participating members:  
JST (Japan), DOST (the Philippines) and MOST (Vietnam)
- Fields of research:  
“Infectious Diseases”
- Call duration:  
8<sup>th</sup> Feb – 15<sup>th</sup> April 2013
- Outcome:  
2 proposals approved (8 received)



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## 2nd Pilot Joint Call for Proposals

- Budget provided to each project (in total):

	Japan :	<b>36 million JPY</b> (roughly 360,000 USD)
	Philippines:	<b>15 million PHP</b> (roughly 350,000 USD)
	Vietnam:	<b>2.5 billion VND</b> (roughly 120,000 USD)

\*All budget items must conform to the rules and regulations of each participating member

- Research project duration: 3 years (36 months)
  1. International study on pulmonary diseases infected with influenza virus and *Mycobacterium tuberculosis*
  2. Comprehensive study on virus quasi-species and vascular permeability factors in severe dengue infection in humans for innovative epidemic and clinical managements

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# SATREPS

Science and Technology Research Partnership for Sustainable Development Program

<http://www.jst.go.jp/global/english/>

## SATREPS Concept

“Science & Technology × Official Development Assistance”

**SATREPS joins and coordinates functions, activities, and capabilities that were once separate, using scientific research potential as a mediator for developmental diplomacy**

<p><b>Science and Technology</b> Promoting science and technology, encouraging innovation</p> <p><b>Meeting Global Needs</b> Resolving global issues and contributing to the science and technology community</p> <p><b>Japan's Capabilities</b> ·World-leading technology, proven research capacity ·Soft power</p>	<p>×</p> <p>×</p> <p>×</p>	<p><b>International Cooperation</b> ODA, development assistance</p> <p><b>Meeting Local Needs</b> Capacity development to address issues emerging as local needs in developing countries</p> <p><b>Developing Countries' Capabilities</b> ·Direct experience, knowledge, and data needed for research on global issues ·Potential to contribute to the global economy through new markets and industries</p>
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**Enhancing cooperation in science & technology**

~ Building win-win relationships between Japan and developing countries ~

**New technology, new knowledge**

~ Addressing global issues and advancing science ~

**Capacity Development**

~ Boosting self-reliant R&D capacity and sustainable research systems, training human resources and coordinating networking between researchers ~

**Practical utilization**

~ Expecting outcomes to make a real contribution to society ~

**Research Areas**

**■ Environment and Energy**

- Global-scale Environmental Issues
- Low-carbon Society

- { Climate change mitigation & adaptation, Safe water supply, Biodiversity conservation..
- { Biomass energy, Energy efficiency, Renewable energy..

**■ Bio resource Utilization**

- { Breeding and cultivation technology, Bio resource management..

**■ Natural Disaster Prevention**

- { Natural disaster mechanisms (Earthquakes, Volcanic..), Natural disaster mitigation..

**■ Infectious Diseases Control**

- { Diagnostic tool, Vaccines, Therapeutic products development (Avian influenza, HIV/AIDS, Dengue fever..)

**78 projects in 39 countries since 2008.**

**43 projects in 15 Asian Countries.**





Thank you for your attention