

DOST-PCIEERD 11TH ANNIVERSARY CELEBRATION

From Labs to Lives: Building R & D Capacities and Opportunities for Sustainable Recovery

29 June 2021 (Tue), Webinar



“Challenges in R & D and International Research Cooperation in times of COVID19 Pandemic and the New Normal”

KOBAYASHI Osamu

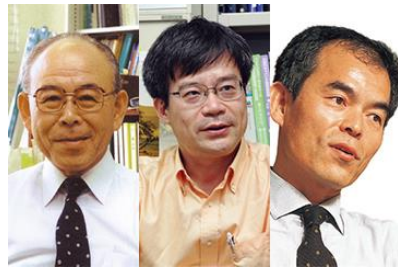
Director, Department of International Affairs
Japan Science and Technology Agency (JST)

June 29, 2021

1. JST, Our Research Priorities
2. Our partnership with DOST
3. Challenges in times of the “New Normal”

“Science for global well-being”

未来のためにできることがある ～SDGs～



SUSTAINABLE DEVELOPMENT GOALS



Dr. HAMAGUCHI Michinari
President of JST



1. JST, Our Research Priorities
2. Collaboration and Partnership between JST and DOST
3. Challenges in times of the “New Normal”

SATREPS: <https://www.jst.go.jp/global/english/>

e-ASIA JRP: <https://www.the-easia.org/jrp/>

SATREPS

Science and Technology Research Partnership
for Sustainable Development Program

The e-ASIA Joint Research Program

Since 2008

157

projects

52

countries

Global Common Issues

Since 2012

37

projects

11

countries

Regional Common Issues



SATREPS

Science and Technology Research Partnership
for Sustainable Development Program

Research areas:

- Environment & Energy
- Bioresource Utilization
- Disaster Prevention & Mitigation
- Infectious Diseases Control



8

projects

(On-going)

1. Development and Adoption of Ecofriendly High Performance Disease Control Technology for Banana and Cacao through Agrobiodiversity Management System
2. Development of a Hybrid Water-Related Disaster Risk Assessment Technology for Sustainable Local Economic Development Policy under Climate Change
3. Comprehensive Assessment and Conservation of Blue Carbon Ecosystems and Their Services in the Coral Triangle (Blue CARES)
4. Development of Extreme Weather Monitoring and Information Sharing System in the Philippines

(Finished)

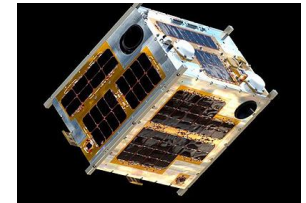
5. Comprehensive Etiological and Epidemiological Study on Acute Respiratory Infections in Children: Providing Evidence for the Prevention and Control of Childhood Pneumonia in the Philippines
6. Integrated Coastal Ecosystem Conservation and Adaptive Management under Local and Global Environmental Impacts
7. Enhancement of Earthquake and Volcano Monitoring and Effective Utilization of Disaster Mitigation Information in the Philippines
8. Prevention and Control of Leptospirosis in the Philippines



“Development of Extreme Weather Monitoring and Information Sharing System in the Philippines”

https://www.jst.go.jp/global/english/kadai/h2812_pilipinas.html

- Prof. TAKAHASHI Yukihiro, Faculty of Science, Hokkaido University)
- Dr. Franz Asunta de Leon, Director, Advanced Science and Technology Institute (DOST-ASTI)



DIWATA1 (credit NASA)

Prof. Joel Joseph Marciano Jr., former Director of DOST-ASTI & PI of ULAT/SATREPS is the first Director General of Philippine Space Agency (PhilSA)!



“Enhancement of Earthquake and Volcano Monitoring and Effective Utilization of Disaster Mitigation Information in the Philippines”

https://www.jst.go.jp/global/english/kadai/h2113_pilipinas.html

- Dr. INOUE Hiroshi, Principal Senior Researcher, Disaster Risk Research Unit, National Research Institute for Earth Science and Disaster Prevention
- Philippine Institute of Volcanology and Seismology (PHIVOLCS)

Early alert by PHIVOLCS contributed to early evacuation in the massive Taal volcano eruption in 2020





- Develop S&T community to promote innovation and development to resolve shared challenges* in the Asia region through multilateral research cooperation on an equal partnership basis.

*7 research areas to address regional common issues:

1. Materials (Nanotechnology), 2. Alternative Energy, 3. Agriculture (Food), 4. Health Research, 5. Disaster Risk Reduction and Management, 6. Advanced Interdisciplinary Research towards Innovation, 7. Environment (Climate Change, Marine Science)



- 24 member & 1 guest partner funders from 15 countries

 Australia <u>NHMRC</u>	 Cambodia <u>MOH</u> • MISTI	 Indonesia RISTEK/BRIN	 Japan MEXT • JST • <u>AMED</u>	 Lao PDR MOST • <u>MOH</u>
 Malaysia MOSTI	 Myanmar MOE	 New Zealand <u>HRC</u>	 Philippines DOST	 Russia RFBR
 Singapore A*STAR	 Thailand NSTDA • ARDA • <u>TCELS</u> • TSRI • NRCT • PMU-B	 USA <u>NIAID(NIH)</u> • <u>NCI(NIH)</u>	 Vietnam MOST	 Sri Lanka NSF Guest partner

Underline: Funders for health research

DOST supported/supports 23 projects 22 projects* including Japan!

*Materials (Nanotechnology): 3, Alternative Energy: 1, Agriculture (Food): 1, Health Research: 12, Disaster Risk Reduction and Management: 2, Advanced Interdisciplinary Research towards Innovation: 2, Environment (Climate Change, Marine Science):1

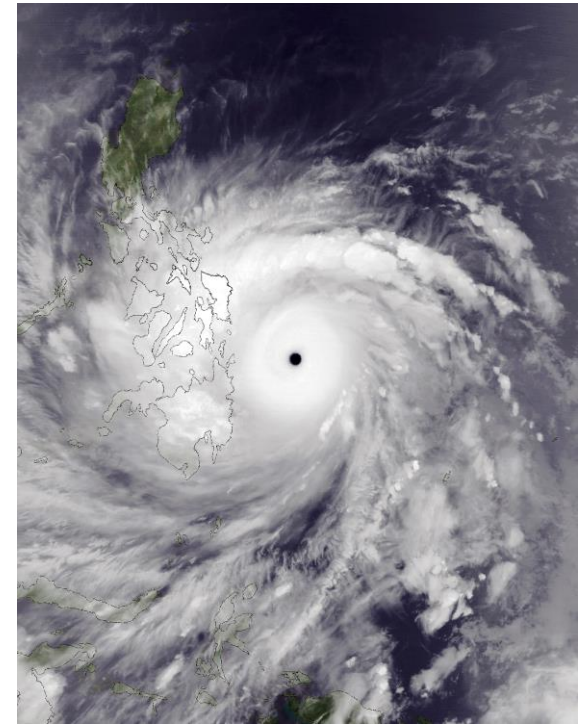
<https://www.the-easia.org/jrp/projects.html>

Urgent Response to Emergent Events

Japan-Philippine Urgent Collaborative Projects regarding “Typhoon Yolanda” in 2014

https://www.jst.go.jp/pr/info/info1026/besshi_e.html

12 projects



November, 7, 2013

(credit NASA, LAADS)

“Urgent Response to Emergent Events x e-ASIA JRP”

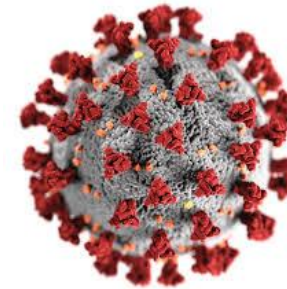
e-ASIA Joint Research Program (e-ASIA JRP)

Joint Research Project Urgent Call for Proposals on the topic of
“Countermeasures for **COVID-19** in Non-medical Research”



https://www.jst.go.jp/pr/info/info1482/pdf/info1482_en.pdf

5 projects



Important notice for preventing COVID-19 outbreaks.

Avoid the “Three Cs”!

1. **Closed spaces** with poor ventilation.
2. **Crowded places** with many people nearby.
3. **Close-contact settings** such as close-range conversations.

One of the key measures against COVID-19 is to prevent occurrence of clusters. Keep these “Three Cs” from overlapping in daily life.

The risk of occurrence of clusters is particularly high when the “Three Cs” overlap!

In addition to the “Three Cs,” items used by multiple people should be cleaned with disinfectant.

首相官邸 | 厚生労働省 | MHLW COVID-19 Search

1. JST, Our Research Priorities
2. Collaboration and Partnership between JST and DOST
3. Challenges in times of the “New Normal”

- COVID-19 is not the last disaster in a global scale
- Our common challenges are getting more complicating

Can we fight against those challenges alone?

- To address them, we have to mobilize as diverse elements as possible

Joint Research Project Urgent Call for Proposals on the topic of
“Countermeasures for **COVID-19** in Non-medical Research”

Why and How was our cooperation in emergency possible?

“Trust”

‘Decade of Global Sustainability Science Action’

“Global problems require a global response and **concerted action is necessary from research funders**, as it is from others in the international community. The power of our response will ultimately lie in our **willingness to work together.**”

Professor Andrew Thompson,
 Immediate former UKRI International Champion &
 Executive Chair of the Arts and Humanities
 Research Council
 (Global Forum of Funders, July 2019 @Washington DC)

SUSTAINABLE DEVELOPMENT GOALS



Message:

- We need work together to fight against common challenges.
- To work together, you need to build good partnership.
- To build good partnership, you have to be trusted.
- To get trust, you have to be always honest and diligent.
- If you are always honest and diligent, you can enhance your network to work together.



Thank you for your attention!