

e-ASIA Joint Research Program (e-ASIA JRP)
Joint Research Project in the field of
“Advanced Interdisciplinary Research towards Innovation”
on the topic of
“Water Resource Management”

It is our great pleasure to announce the selected projects of the e-ASIA Joint Research Program (e-ASIA JRP)*¹ 9th Call for Proposals in the field of “Advanced Interdisciplinary Research towards Innovation” on the topic of “Water Resource Management”.

A total of 31 proposals was submitted in response to the 9th joint call for proposals. After careful consideration based on the peer review results by the 6 funding organizations from 6 countries participating in the call*², the following 3 collaborative projects were selected for support with the approval of the e-ASIA JRP Board. Support to the projects will continue for three years.

“Wastewater-informed early warning system to minimize impact of COVID-19 and Disease X”

to be conducted jointly by:

Japan: Eiji Haramoto, Professor, University of Yamanashi

Indonesia: Tjandra Setiadi, Professor, Institut Teknologi Bandung

Vietnam: The Hung Dang, Director, Hanoi University of Public Health

This cooperative research project aims to develop an early warning system to reduce risk from the recurrence of COVID-19 as well as to prevent future unknown pandemics through wastewater monitoring.

“Development of machine learning and remote sensing-based water management platform for sustainable agriculture in Asian deltas”

to be conducted jointly by:

Japan: Natsuki Yoshikawa, Associate Professor, Niigata University

Vietnam: Lan Thanh Ha, Researcher/Head of Department, Institute of Water Resources Planning (IWRP), MARD

Indonesia: Budi Indra Setiawan, Professor, Bogor Agricultural University

This cooperative research project addresses the challenges in managing water resources in Asian floodplains by jointly developing an Integrated Water Management Platform comprising of state-of-the-art technologies for monitoring and forecasting the state of water, land and crop production. This platform will assist timely and better operation of water management facilities to achieve better and sustainable agricultural production.

“Integrated water resources management with wise reservoir operation”

to be conducted jointly by:

Japan: Taikan Oki, Professor, The University of Tokyo

Thailand: Somchit Amnatsan, Director, Royal Irrigation Department

Lao PDR: Keoduangchai Keokhamphui, Head of Department, Faculty of Water Resource/National University of Laos

This collaborative research aims to implement dam operation model incorporating the dam inflow prediction developed with invoking of innovated ICT (AI and deep learning) using big data in climate and meteorology. Outcomes of this collaborative research contribute to the sustainable management of water and to the achievement of SDG6 (Target 6.4, 6.5, 6.a).

On behalf of the e-ASIA JRP, we would like to offer our sincerest congratulations to the project teams, and look forward to the significant impact their results will bring to our society in the future.

*1 The e-ASIA Joint Research Program (e-ASIA JRP)

Through exchange and collaboration, the e-ASIA Joint Research Program (e-ASIA JRP) aims to strengthen scientific and technological research and development capabilities towards resolving shared challenges across the East Asia region. These include challenges associated with materials, alternative energy, agriculture, health research, disaster risk reduction and management, advanced interdisciplinary research towards innovation, and environment.

As part of that objective, the e-ASIA JRP is intended to support collaborative research among three or more of its member countries. Through joint research among participating countries in agreed fields, it is the goal of the e-ASIA JRP to contribute to economic and human resource development, and to the resolution of various challenges in the region.

e-ASIA JRP’s homepage: <http://www.the-easia.org/jrp/>

*2 The list of organizations participating in the 9th joint call for proposals in the field of “Agriculture”:

- Ministry of Research and Technology/ National Research and Innovation Agency (RISTEK/BRIN), Indonesia
URL: <https://international.ristekdikti.go.id/>
- Japan Science and Technology Agency (JST), Japan
URL: <http://www.jst.go.jp/EN/index.html>
- Ministry of Science and Technology (MOST), Lao PDR
URL: <https://www.most.gov.la/index.php/en>

- Department of Science and Technology (DOST-PCAARRD), Philippines
URL: <http://www.pcaarrd.dost.gov.ph/>
- Agricultural Research Development Agency (ARDA), Thailand
URL: <http://www.arda.or.th/en/>
- Ministry of Science and Technology (MOST), Vietnam
URL: <https://www.most.gov.vn/en/Pages/home.aspx>

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