

**e-ASIA Joint Research Program (e-ASIA JRP)**  
**The review results of the 11<sup>th</sup> Call for Proposals**  
**in the field of “Advanced Interdisciplinary Research towards Innovation”**  
**on the topic of**  
**“Greener Digital Cities”**

It is our great pleasure to announce the selected projects of the e-ASIA Joint Research Program (e-ASIA JRP\*1) 11<sup>th</sup> Call for Proposals in the field of “Advanced Interdisciplinary Research towards Innovation” on the topic of “Greener Digital Cities”.

A total of six proposals was submitted in response to the 11<sup>th</sup> joint call for proposals. After careful consideration based on the joint review results by the four funding organizations from four countries participating in the call\*2, the following two collaborative projects were selected for support with the approval of the e-ASIA JRP Board. Support to the projects will continue for three years.

**“Air-front Smart City: A Business-Life Regenerative Innovation Gateway Hub as Transformer of Economic-system for the Region towards 2050”**

to be conducted jointly by:

Japan: Yoshitsugu Hayashi, Distinguished Professor, Chubu University

Thailand: Pawinee Iamtrakul, Associate Professor, Thammasat University

Philippines: Marla Redillas, Associate Professor, De La Salle University

This cooperative research project aims to provide a new concept and QOL-based evaluation method for air-front smart city developments. Airports and urban development will be connected to the hinterland by transportation and cyber dual networks to achieve industrial innovation and decarbonization. The application and verification will be implemented in different industries in each participating country. Through collaborative and complementary research among three countries, this research is expected to provide a smart city planning and design method applying greener digital technology.

**“Seamless Radio and Optical Access Networks for Intelligent commuting and Regional communications with low-cost fabrication”**

to be conducted jointly by:

Japan: Tetsuya Kawanishi, Professor, Waseda University

Thailand: Ukrit Mankong, Associate Professor/Assistant Dean for Graduate Programs, Faculty of Engineering, Chiang Mai University

Philippines: Benjamin Dingel, Affiliate Professor, Ateneo de Manila University

This cooperative research project aims to develop robust and high-capacity access networks for comprehensive local mobility management and pedestrian protection system, where low-budget base stations along roadsides are connected effectively by using a combination of radio and optical links. These networks also can be used for various regional information services, including telemedicine with biosensing devices. This project will focus on optical and radio technologies for communications and sensing and also on service schemes through field trials.

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 the acceleration of science and technology research exchange and collaboration in the East Asian region, the e-ASIA Joint Research Program (e-ASIA JRP) aims to strengthen research and development capabilities towards resolution of shared challenges across the region, including those 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 intends to support the multilateral collaborative research projects, which must consist of three or more countries.

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

\*2 The list of organizations participating in the 11<sup>th</sup> joint call for proposals in the field of “Advanced Interdisciplinary Research towards Innovation”:

- Japan Science and Technology Agency (JST), Japan  
URL: <https://www.jst.go.jp/EN/>
- Ministry of Science and Technology (MOST), Myanmar  
URL: <http://www.most.gov.mm>  
<https://www.most.edu.mm>
- Department of Science and Technology (DOST), Philippines  
URL: <https://www.dost.gov.ph/> (DOST)  
<http://www.pchrd.dost.gov.ph/> (DOST-PCHRD)  
<https://pcieerd.dost.gov.ph/> (DOST-PCIEERD)  
<http://www.pcaarrd.dost.gov.ph/home/portal/> (DOST-PCAARRD)
- National Research Council of Thailand (NRCT), Thailand  
URL: <https://www.nrct.go.th/en>

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