

ICT Virtual Organization of ASEAN Institutes and NICT ASEAN IVO

Call for Proposals 2018

To bring the benefit of ICT to every social and geographic corner, to solve the common problems such as environmental problems, food supply, natural disasters and digital divides in the ASEAN region, all members of ASEAN IVO have the responsibility to accelerate Research and Development in the field of ICT. We consider that collaboration between institutions and between countries is one of the most important tools for this purpose, and ASEAN IVO is to launch new joint projects in spring 2018 to promote such collaboration in the ICT field.

In this year's Call, the topics mainly focus on application development to provide solutions for specific regional needs or environmental or social problems. Projects would ideally have a strong outlook to conduct a demonstration by the final year of the project. Proposals from all technical fields are welcome and they will be evaluated on the potential benefit of output.

ASEAN IVO -- **Call for Proposals 2018** is now open to all members of ASEAN IVO to make new projects in the ICT field starting from April, 2018. Please fill in the **Proposal Form** and submit it to the ASEAN IVO Secretariat.

1. Topics

The **Call for Proposals 2018** is open for topics under the following themes:

1) Smart-Agriculture/Aquaculture/Farming

Food is a common need of every people in every country. The focus of this topic is for ICT applications providing specific solutions to food production issues in the ASEAN region, specifically the development of applications and integrated systems for R&D in the fields of agriculture, aquaculture, and livestock.

Keywords: Agriculture, Aquaculture, Livestock raising, Farming, IoT

2) Smart Tourism

After the establishment of the AEC (ASEAN Economic Community), traveling has become easy for people living in this region. This topic addresses ICT applications providing specific solutions to ASEAN regional needs arising from the growing tourism economy. In particular, projects would focus on the development of applications and integrated systems for R&D in the field of tourism.

Keywords: Travel booking and logistics, Tourist travel assistance, Safety and surveillance, Medical tourism, Cultural tourism, Travel database and data analytics

3) Smart Environment Protection

Remote sensing is one of the strongest technologies applicable in the effort to understand and protect against the effects of climate change and the destruction of the environment, especially tropical rainforests in the ASEAN region. By analyzing data from environmental monitoring, valuable information can be returned to society and applied to help preserve and restore the environment and mitigate the effects of disasters. This topic does not only focus on technologies,

but also applications and integrated systems for R&D.

Keywords: Lidar sensors, Doppler radars, UAV and Airborne platforms, Spatial technologies, Landscape, Climate change, Rainforest protection, Environment protection

4) Information Reliability for Smart Society

In today's highly connected society, people are increasingly sending sensitive data over networks such as for online shopping and online applications, as well as freely communicating content online and in social media. With this, solutions for issues such as information reliability and online security are more important than ever. This topic does not only focus on technologies, but also applications and integrated systems for R&D.

Keywords: Data validation, Accessibility, Cryptographic verification, Transparency, e-Voting, e-Commerce, Information system reliability

Proposals in any ICT-related topic are welcome if sufficient relevance to one or more of the above themes can be demonstrated.

2. Important dates

1. Deadline for proposal submission: January 31, 2018
2. Evaluation period: March 2018
3. Notice of results: April 2018

3. Application

1. The institution of the applicant should be an ASEAN IVO member, and the applicant should be the project leader. Non-members can submit proposals for new projects as project leaders, but they must apply for membership and obtain approval before the deadline for proposal submission.
2. The members of the proposed project must be at minimum 2 institutions total, and from at least 2 different countries in the ASEAN region.
 - * Multiple institutions from one country as well as NICT and other Japanese institutions are also welcome to be members of a project team, but will not count towards this minimum requirement.
3. Institutions that are not members of ASEAN IVO can also be members of the project team.
4. The leaders of ongoing projects cannot make new applications.

4. Budget

Max. 40,000 US\$/project/year

5. Projects

Around 6 projects will be selected in total.

The duration of the project can be from 6 months to 36 months. If the duration is over 24 months, the project would be reviewed once by the Steering Committee.

Note:

- 1) 5 projects will be supported by NICT, and they can be from any of the themes in this Call.
- 2) 1 project will be supported by NES. However, this project will be selected only from among Vietnam's applicants for Theme 1 (Smart-Agriculture/Aquaculture/Farming).

NES: a private company that is part of NEC group and member of ASEAN IVO.
(<http://www.nec-solutioninnovators.co.jp/en/index.html>)

6. Review and selection

1. The Steering Committee of ASEAN IVO will evaluate each submission from the following viewpoints. In some cases, modifications may be recommended.
 - Scientific and/or technological excellence (relevant to the topics addressed by the call)
 - Soundness of concept, and quality of objectives
 - Progress beyond the state-of-the-art
 - Quality and effectiveness of the S/T methodology and associated work plan
 - Quality and efficiency of the implementation and the management
 - Appropriateness of the management structure and procedures
 - Quality and relevant experience of the individual participants
 - Quality of the consortium as a whole (including complementarity, balance)
 - Appropriateness of the allocation and justification of the resources to be committed (budget, staff, equipment...)
 - Potential impact through the development, dissemination and use of project results
 - Contribution, at the ASEAN and/or international level, to the expected impacts listed in the work program under the relevant topic/activity
 - Relevance of potential impact to national or ASEAN official guidelines, such as the ASEAN ICT Master Plan.
 - Appropriateness of measures for the dissemination and/or exploitation of project results, and management of intellectual property.
 - Potential to generate sustainable community practices, business models or industry-relevant products with future development.
 - Benefits to the development of collaboration in the applicant country and ASEAN region
 - Balance, equality and complementarity between organizations and between countries within the project team
 - Contribution to the technical proficiency of research in developing ASEAN countries
 - realization of new collaborations as well as reinforcing continuing partnerships
2. Selected proposals will be published on the ASEAN IVO website.
3. Members of the selected projects, especially project leaders, are requested to cooperate with NICT for administrative procedures.

7. Other financial support

In addition to the support of ASEAN IVO, other financial support for your project is welcome. For example, this can be a matching fund from the institution of the applicant or a public fund or other source.

8. Intellectual Property

Among the project products achieved by the collaborative research and development, the intellectual property of any product that is independently created by a researcher or researchers of

one institution shall be solely reserved by that institution.

Among the project products achieved by the collaborative research and development, the intellectual property of any product that is jointly created by researchers of more than one institution shall be jointly held by those institutions.

9. Open source and Data sharing

ASEAN IVO envisions an acceleration of innovation that can be achieved by open access to technologies and information. For this purpose, it is highly recommended that research data is made available between ASEAN IVO members, if it is appropriate and practicable, and researchers are encouraged to consider open source development, or make use of shared platforms.

10. Project Review and Reports

There is a project review in second year, if the duration of the project is 24 months (2 years) or more.

The following reports will be required:

- Progress reports once a year
- A final report at the end of the project duration.

Information about the status of your project based on these progress reports will be published on the ASEAN IVO website. Additionally, you are encouraged to publish a website for your project where possible.

11. Submission

1. Procedure: Submit applications by filling in all necessary items in the proposal form and E-mailing by attachment in both MS Word and PDF formats.
2. Submit to: ASEAN IVO Secretariat
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