

IX. INFORMATION AND COMMUNICATIONS TECHNOLOGIES SECTOR

A. Development of Blockchain Applications in the Philippines

Blockchain is revolutionizing the way decentralized and disparate third party organizations and systems, across all sectors and types, communicate and interact with one another. As the technology shows the early signs of maturing we now look forwards to seeing it roll into the mainstream.

Blockchain is a tamper proof, verified, decentralized public ledger of digital events. Its data can never be erased and new data can only be added to it once the consensus of a majority of the Miners in the system is reached.

Today, there are thousands of use cases from the creation of national cryptocurrencies, and new global banking, identity, logistics and supply chain solutions, to the creation of new cyber-security, and internet services. There is arguably no limit to the number of use cases the technology can be applied to.

Call Rationale

The Department of Science and Technology (DOST) through its Grants-In-Aid (GIA) Program aims to harness the country's scientific and technological capabilities to spur and attain sustainable economic growth and development. Through the funding of relevant science and technology (S&T) undertakings, the GIA program aims to contribute to productivity improvement and quality of life of Filipinos by generating and promoting appropriate technologies. Likewise, it seeks to strengthen the participation of various S&T sectors particularly in research and development (R&D), promotion, technology transfer and utilization, human resources development, information dissemination, advocacy, and linkages.

The GIA program provides grants for the implementation of programs/projects identified in the current DOST priorities and thrusts and supports S&T activities classified in the General Appropriations Act (GAA). The current state flow of DOST's research grant project management involves independent field reports from either or both DOST's partnered universities/institutions and the research project teams themselves. Furthermore, there may also be additional vetting/validation of reports between any of the parties involved. This may lead to relatively suboptimal decision making due there being no accessible real time aggregate view of outcomes, clients, and programs, as well as the significant overhead in exchanging and reconciling transactional and reporting information.

Call Objective

The proposal should be aligned with the following priority areas:

- Blockchain solutions to enhance the DOST services such as, but not limited to, its Grants-in-Aid management.

Specific Requirements: To ensure that the output of the project will be adopted, a letter of commitment should be secured from the DOST Office of the Undersecretary for R&D.

PCIEERD shall fund one (1) project for a duration of 12 months and budget of 3M.