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For General Release

Information Services International-Dentsu, Ltd. (ISID)

SIVIRA Inc.

ISID and SIVIRA Have Commenced Collaboration Research Project Regarding Information Network in Next Generation with High Security Enabled by Quantum Technology and Blockchain

To Organize Informal Discussion Workshop “TU (Table Unstable)” with CERN IdeaSquare and CERN openlab for Sharing Ideas or Common Interests on April 27 in Geneva.

Open Innovation Laboratory (Innolab in below) of Information Services International-Dentsu, Ltd. (HQ: Tokyo, Japan. CEO: Setsuo Kamai. ISID in below) and SIVIRA Inc. (HQ: Osaka, Japan. CEO: Fujii Takashi. SIVIRA in below) commenced the collaboration research project to realize “Token Society^{*1}” enabled by Blockchain and quantum technology. The project also includes collaboration with Keisuke Fujii, an Associate Professor of Kyoto University's Faculty and Graduate School of Science, and Yoichi Ochiai, an Advisor to President of University of Tsukuba, and Associate Professor of University of Tsukuba's Faculty and Graduate School of Library, Information and Media Studies.

Innolab and SIVIRA are going to collaborate with corporations, academic associations, and research institutions which are implementing Blockchain into society or studying security management under quantum computing environments, to share these progress and outcomes. As a first concrete step, we are organizing an informal discussion event “TU (Table Unstable)” with CERN IdeaSquare and CERN openlab on April 27 at CERN for exploring possible common needs between Innolab, SIVIRA and CERN researchers.

Background

It is getting social attentions how to manage rights with tokens^{*2} as seen in concept design of Blockchain-interlocked IoT services or smart contracts, and how to realize “Token Economy” where a third party cannot intervene transaction processes due to Token’s highly secured authentication. These interests are increasing and calling for a study into security resilience under quantum computing environments, including Blockchain. Innolab and SIVIRA have been working on a collaborated project regarding a methodology to guarantee authenticity of private Blockchain by linking multiple Blockchains to enhance anti-manipulation characteristic

(named PoP^{*3}). Upon its outcomes, we come to think that this enhanced Blockchain technology would resolve the challenge of security issues under quantum computing environments.

Workshop Information

Participants	CERN Researchers and others mainly from Europe
Date/Time	April 27, 2018 / 9:00 AM - 5:00 PM
Place	CERN (Geneva, Switzerland)
Organized by	Open Innovation Laboratory of Information Services International-Dentsu, Ltd. SIVIRA, Inc. CERN IdeaSquare and CERN openlab
Cooperate with	Quantum Research Institute (QRI) and Pixie Dust Technologies, Inc.
About	<p>Table Unstable (TU)'s first workshop will be held at the CERN on the 27th of April. The purpose of the workshop is to gauge the interest here for such an informal discussion forum.</p> <p>9:00 AM - 12:00 PM, Presentation Sessions 1:00 PM - 5:00 PM, Panel Talks</p> <p><Speakers from Japan></p> <ul style="list-style-type: none"> ● Dr. Keisuke Fujii (Associate Professor of Kyoto Univ. / Director of QRI) ● Dr. Yoichi Ochiai (Advisor to President of University of Tsukuba, and Associate Professor of University of Tsukuba / CEO of Pixie Dust Technologies, Inc. / Collaboration Partner of Innolab.) ● Mr. Hiroyuki Shinohara (Co-Founder and COO of SIVIRA, Inc.) ● Mr. Junichi Suzuki (Producer of Innolab.)

Through holding TU, under the theme of what we can do for quantum computers connected by quantum network in the world where quantum computers became commonplace, we gathered experts from each domain of quantum computer and Blockchain technology and discuss, and then we will widely announce outcome including its process.

*1*2 Token / Token Society:

A token refers to an asset (asset, data) defined on a Blockchain. A representative example is a virtual currency like Bitcoin. Not only monetary transactions but all data on the block chain are managed as trackable and trustworthy assets. In addition, the economic zone that constitutes a means of exercising rights based on personal values is called a token economy. ISID and SIVIRA define a society which will be based on the token economy platform as “Token Society”.

*3 PoP:

Proof of Proof (abbreviated to be PoP) is a part of outcome of ISID and SIVIRA corroborative research project "IoVB (Internet of Value by Blockchain)" that is to ensure the authenticity of data by coupling multiple Blockchains.

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