Green x Digital Consortium
POC experiment on intercorporate data exchange launched with 35 companies toward visualization of supply chain carbon emissions

The Green x Digital Consortium, for which the Japan Electronics and Information Technology Industries Association (JEITA; chaired by Takahito Tokita, President and Representative Director, Fujitsu Ltd.) serves as secretariat, began a proof-of-concept experiment on intercorporate data exchange toward the visualization of supply chain carbon emissions. A total of 35 companies are currently participating in the experiment, including solution providers and solution users. In addition to technical assessment of data exchange among solutions based on international frameworks, a practical assessment of supply chain carbon calculations will be conducted.

There is a strong call for all industries to achieve decarbonization and net-zero emissions throughout the supply chain so as to realize carbon neutrality, which will be critical for accurate assessment and reduction of emissions not just by individual companies (Scope 1 and 2) but across the supply chain, including both upstream and downstream emissions (Scope 3).

The Green x Digital Consortium's Carbon Data Visualization Working Group (Leader: NEC Corporation) has been investigating a mechanism for using digital technologies to exchange carbon emissions data among companies in the supply chain so as to visualize supply chain carbon emissions data, Scope 3 included, creating a carbon visualization framework along with technical specifications for data partnership.[1] Because supply chains operate on a global basis, the Working Group is also facilitating communication with the international framework WBCSD Partnership for Carbon Transparency (PACT).[2]

The POC experiment will draw on the carbon visualization framework and the technical specifications for data exchange to check that emissions data calculated with the same methods by companies from diverse industries can be exchanged among different solutions to accurately and effectively gauge supply chain emissions. Phase 1, entailing technical investigations into data exchange, will be conducted until January 2023, and Phase 2, entailing practical assessment together with user companies of carbon calculations and other aspects, will be completed in June 2023.

Through the experiment, we will create use cases of intercorporate data exchange, deepening inter-industry partnership and public-private cooperation toward the practical application of an emissions data exchange mechanism.

[1] Carbon visualization framework and technical specifications for data exchange
The carbon visualization framework comprises a document outlining a methodology for using data technologies to calculate and share carbon data (disclose data quality) exchanged within the supply chain with the aim of realizing carbon data distribution based on primary data that reflects supplier companies' emissions reduction efforts. The technical specifications incorporate the approaches of the WBCSD PACT's Pathfinder Network and Pathfinder Framework along with unique elements based on Japan's domestic systems and
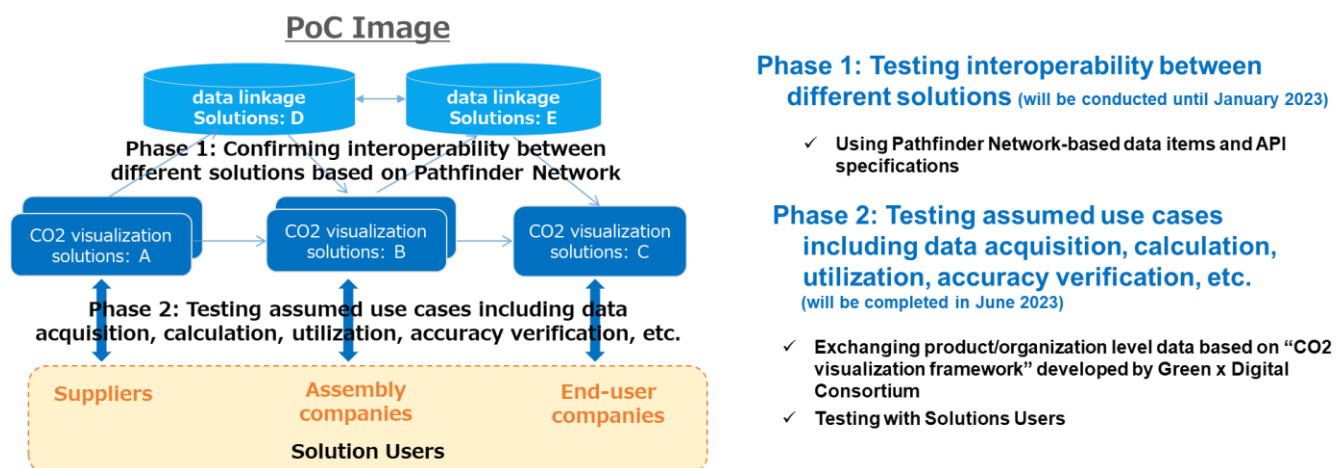
the needs of companies participating in the Consortium. Preparations are currently underway to disclose the framework and the specifications to the general public.

[2] WBCSD Partnership for Carbon Transparency (PACT)
The World Business Council for Sustainable Development (WBCSD) is the premier global, CEO-led community of over 200 of the world's leading sustainable businesses working collectively to accelerate the system transformations needed for a net-zero, nature positive, and more equitable future. The Partnership for Carbon Transparency (PACT) seeks to accelerate decarbonization through the creation of transparency on emissions in the value chain. The PACT community defines and publishes the necessary methodological and technological basis for emissions data exchange, integrating existing standards and approaches and creating a trusted and holistic foundation. The PACT is hosted by the WBCSD. The Green x Digital Consortium participates in the PACT ecosystem.
The website: https://www.carbon-transparency.com/

<POC image>

Companies that will participate in the POC experiment
(35 companies as at December 9, 2022)

[Phase 1]
Project Manager : Nomura Research Institute,Ltd.
Solution Providers: ABeam Consulting Ltd.
                  Asuene Inc.
                  booost technologies,Inc.
                  chaintope Inc.
                  Claudio Inc.
                  Deloitte Tohmatsu Consulting LLC
                  FUJITSU Limited
                  Hitachi Solutions, Ltd.
                  Hitachi, Ltd.
                  Nomura Research Institute,Ltd.
                  Oracle Corporation Japan
                  PID Inc.
                  SBI R3 Japan Co., Ltd
                  Sustech Inc.
                  Zeroboard. Inc

[Phase 2] (Asterisked companies are both solution providers and users.)
Project Manager   : FUJITSU Limited, Mizuho Research & Technologies, Ltd.
PMO   : Ridgelinez Limited
Solution Providers : ABeam Consulting Ltd.
                    Asuene Inc.
                    booost technologies,Inc.
                    chaintope Inc.
                    Deloitte Tohmatsu Consulting LLC
                    FUJITSU Limited*
                    Hitachi Solutions, Ltd.
                    Hitachi, Ltd.*
                    NEC Corporation*
                    Nomura Research Institute,Ltd.
                    NTT DATA Corporation*
                    Oracle Corporation Japan
                    PID Inc.
                    SBI R3 Japan Co., Ltd
                    Sustech Inc.
                    Suzuyo Shoji CO.,LTD
                    TOSHIBA CORPORATION*
                    WingArc1st Inc.
                    Yokogawa Electric Corporation
                    Zeroboard. Inc
Solution Users   : AISIN CORPORATION
                    BROTHER INDUSTRIES ,LTD.
                    Canon Inc.
                    Dai Nippon Printing Co., Ltd.
                    FUJITSU Limited*
                    Hitachi, Ltd.*
                    Honda Motor CO.,Ltd
                    Kawasaki Heavy Industries, Ltd.
                    MITSUI & CO., LTD.
                    Mizuho Research & Technologies, Ltd.
                    NAGASE & CO.,LTD.
                    NEC Corporation*
                    Net One Systems Co., Ltd.
                    Nitto Denko Corporation
                    NTT DATA Corporation*
                    Sumitomo Electric Industries, Ltd.
                    TOSHIBA CORPORATION*
                    Unicharm Corporation

About Green x Digital Consortium:
The Green x Digital Consortium (Chair by Noboru Koshizuka, Professor, Interfaculty
Initiative in Information Studies, The University of Tokyo) was launced in Ocober 2021 with
the aim of realizing carbon neutrality across society by 2050. The number of members
reached 136(as of November 2022). The consortium brings together companies from all
business types and industries that use digital technologies to work on carbon data
visualization and inoroduction of renewable energy.
The website: https://www.gxdc.jp/