Green x Digital Consortium

Utilizing digital technology and solutions to achieve carbon neutrality across society

Green x **Digital**
Consortium

Green x Digital Consortium

Utilizing digital technology and solutions to achieve carbon neutrality across society

Green is the key to
- tackling climate change
- corporate strategies to enhance competitiveness

Digitalization is the key to
- sustainable economic growth
- achieving the Sustainable Development Goals and carbon neutrality

Green x Digital
- provides digital technologies to achieve carbon neutrality
- creates new solutions to achieve green social transformation

Green x Digital Consortium

◆ Activities: 3 pillars

Ⅰ. **Carbon Data Visualization Project**
   Visualize CO_2 emissions throughout the supply chain

Ⅱ. **Value Creation Project**
   Build a mechanism for digital certification of green value
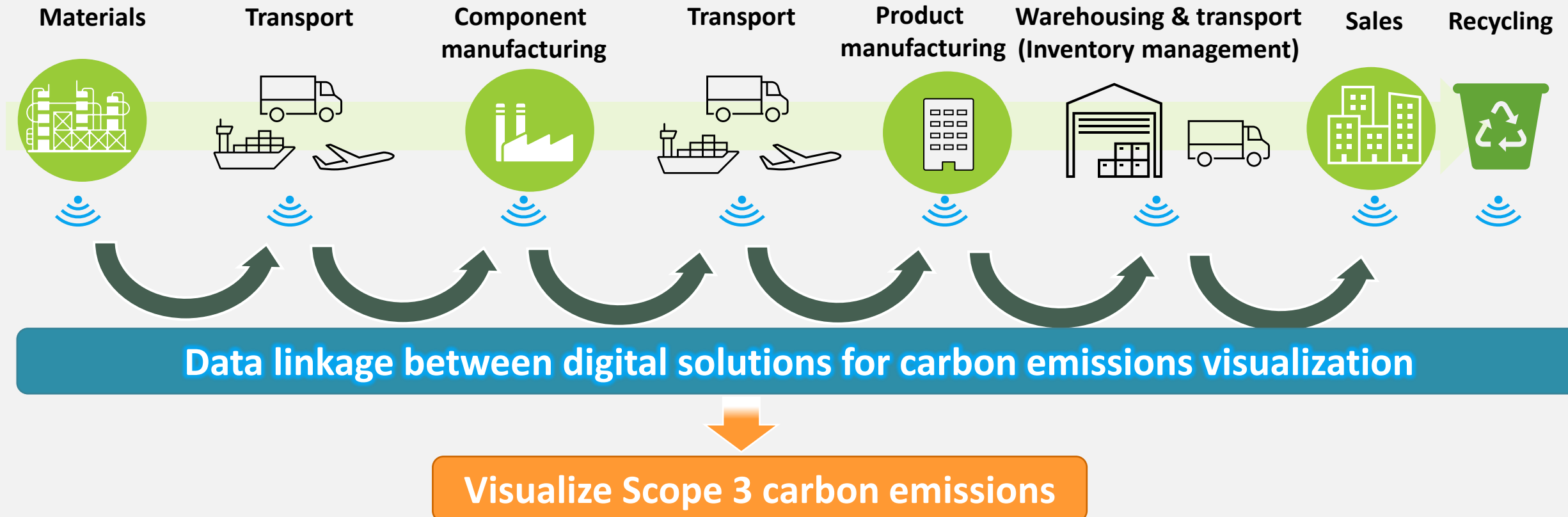
Ⅲ. **Global Communication**
   Harmonize systems at the global level

◆ Membership: **Approx. 160 companies across sectors**

Digital platforms	Data centers	Logistics	Energy
Cloud services	Hardware	Mobility	Raw materials
Digital solutions	Construction	Real estate	Finance

2

Towards Carbon Transparency: Data Visualization Project

✓ Utilize digital solutions to visualize carbon emissions across the supply chain to accurately gauge GHG Protocol Scope 3 emissions

✓ Facilitate engagement between companies to reduce carbon emissions

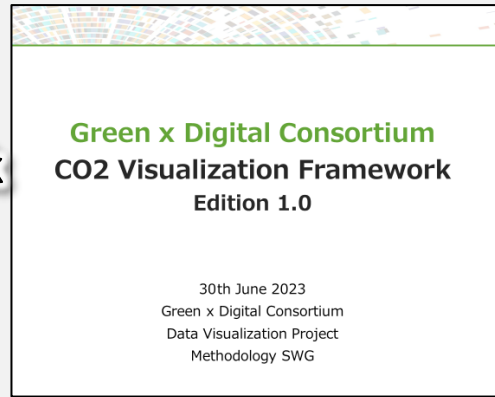| Materials | Transport | Component manufacturing | Transport | Product manufacturing | Warehousing & transport (Inventory management) | Sales | Recycling |

Data linkage between digital solutions for carbon emissions visualization

Visualize Scope 3 carbon emissions

Our outcomes and consistency with PACT

Green x **Digital**
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Carbon Data Visualization Project
conducted by Green x Digital Consortium

PACT

CO2 Visualization Framework
(Edition 1) July 30, 2023

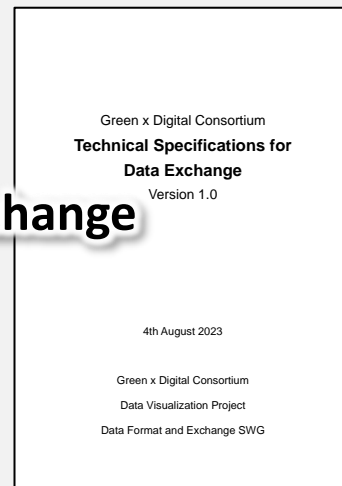### Green x Digital Consortium
CO2 Visualization Framework
Edition 1.0

30th June 2023
Green x Digital Consortium
Data Visualization Project
Methodology SWG

⬅ ➡

Consistent with PACT

⊛wbcsd

Pathfinder Framework

Guidance for the Accounting
and Exchange of Product Life
Cycle Emissions

Pathfinder Framework

Technical Specifications for Data Exchange
(Version 1) August 4, 2023

Green x Digital Consortium
**Technical Specifications for
Data Exchange**
Version 1.0

4th August 2023

Green x Digital Consortium
Data Visualization Project
Data Format and Exchange SWG

⬅ ➡

Consistent with PACT

PACT
PARTNERSHIP FOR
CARBON TRANSPARENCY

Pathfinder Network
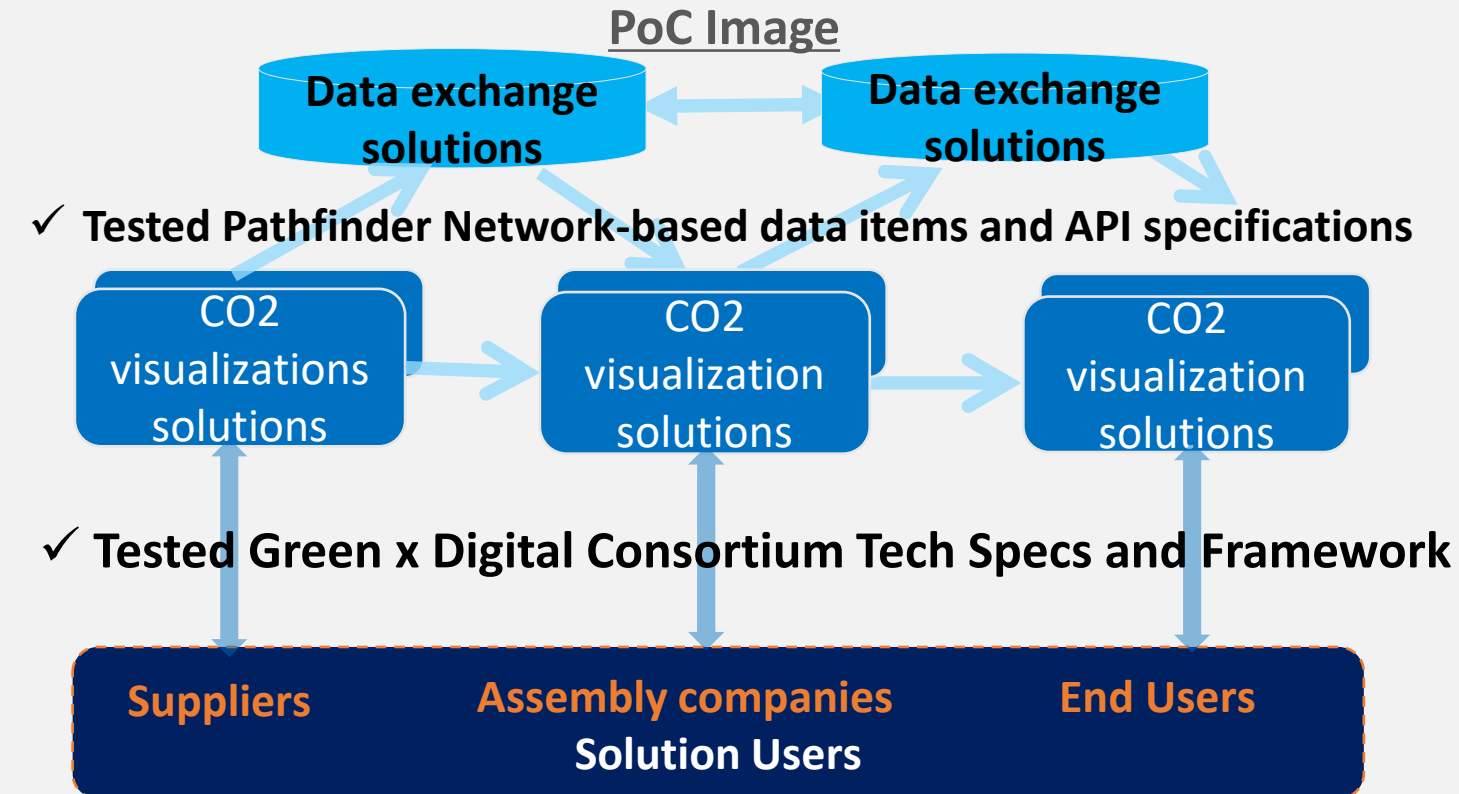Enabling standardized
emissions data exchange

Powered by
⊛wbcsd

**Pathfinder Network and
its Technical Specifications**

Key success: PoC testing on Scope 3 emissions data exchange

- We constructed a large-scale virtual supply chain with the participation of 32 companies from a diverse range of sectors, successfully calculating and exchanging carbon emissions data.

- We were able to confirm that the Green x Digital Consortium's Framework and Tech Specs, both of which were created based on PACT, can be used across a range of solutions.

- Five of the companies participating in PoC testing have had their solutions listed as PACT Conformant, which are booost technologies, Fujitsu, Hitachi, NRI, and Zeroboard.

- We confirmed that evaluation methods need to be created in order to deploy our Framework and Tech Specs.

PoC Image

✓ **Tested Pathfinder Network-based data items and API specifications**

Data exchange solutions

CO2 visualizations solutions → CO2 visualization solutions → CO2 visualization solutions

✓ **Tested Green x Digital Consortium Tech Specs and Framework**

Suppliers   **Assembly companies**   **End Users**
Solution Users

Phase 1: Technical PoC
- Confirming interoperability between different solutions based on Pathfinder Network
- 15 companies involved
- Finished at the end of January 2023

Phase 2: User PoC
- Testing assumed use cases including data acquisition, calculation, utilization, and accuracy verification, etc.
- 32 companies involved
- Finished in June 2023

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