Sustainability with SAP

Deep Dive – SAP Sustainability Data Exchange

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SAP

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Agenda

1 Product Deep-Dive - SAP Sustainability Data Exchange

2 Network Integration: SAP Business Network and Industry Networks
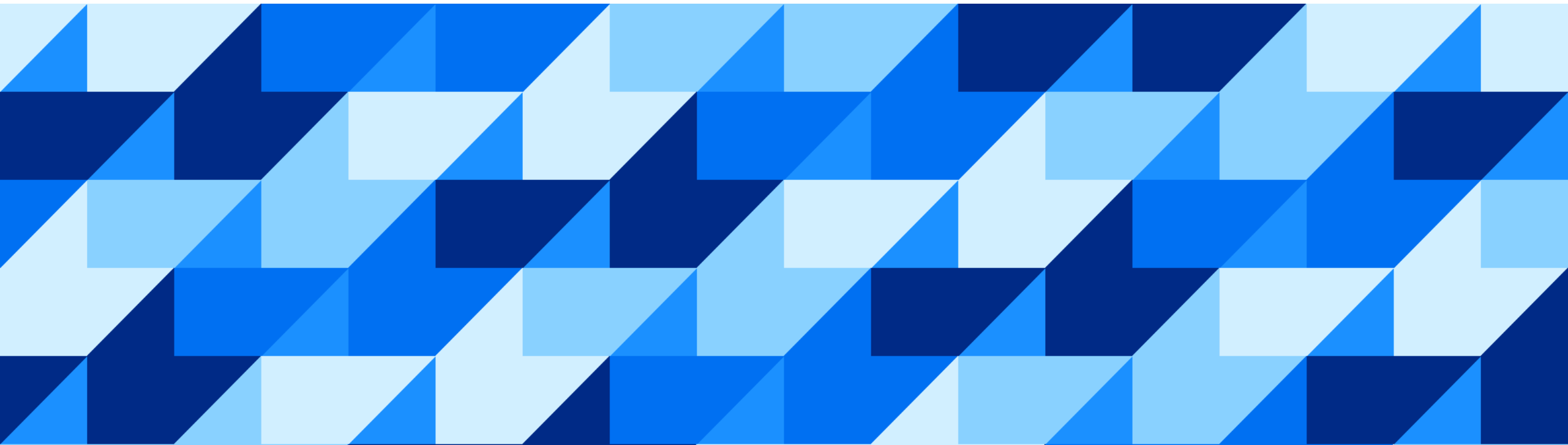
3 Integration with SAP Sustainability Footprint Management

4 Product Outlook

Product Deep-Dive

SAP Sustainability Data Exchange

SaaS solution based on BTP

In collaboration with

Collaborate across your value chain to receive reliable information

Enable sharing of actual product carbon footprint (PCF) data across supply chains with increased interoperability and data sovereignty of data owners – open for all company sizes and industries.

Standardize data exchange and increase data accuracy

Simplify audits with standardized data models and workflows and exchange information seamlessly following industry frameworks and requirements in a flexible way. SAP Sustainability Data Exchange follows PACT V2 and is officially certified by Catena-X.

Accelerate carbon reduction and meet GHG targets

Identify products or processes with high potential for CO2 reduction, avoid double emissions counting, and optimize footprints with actual supplier data.
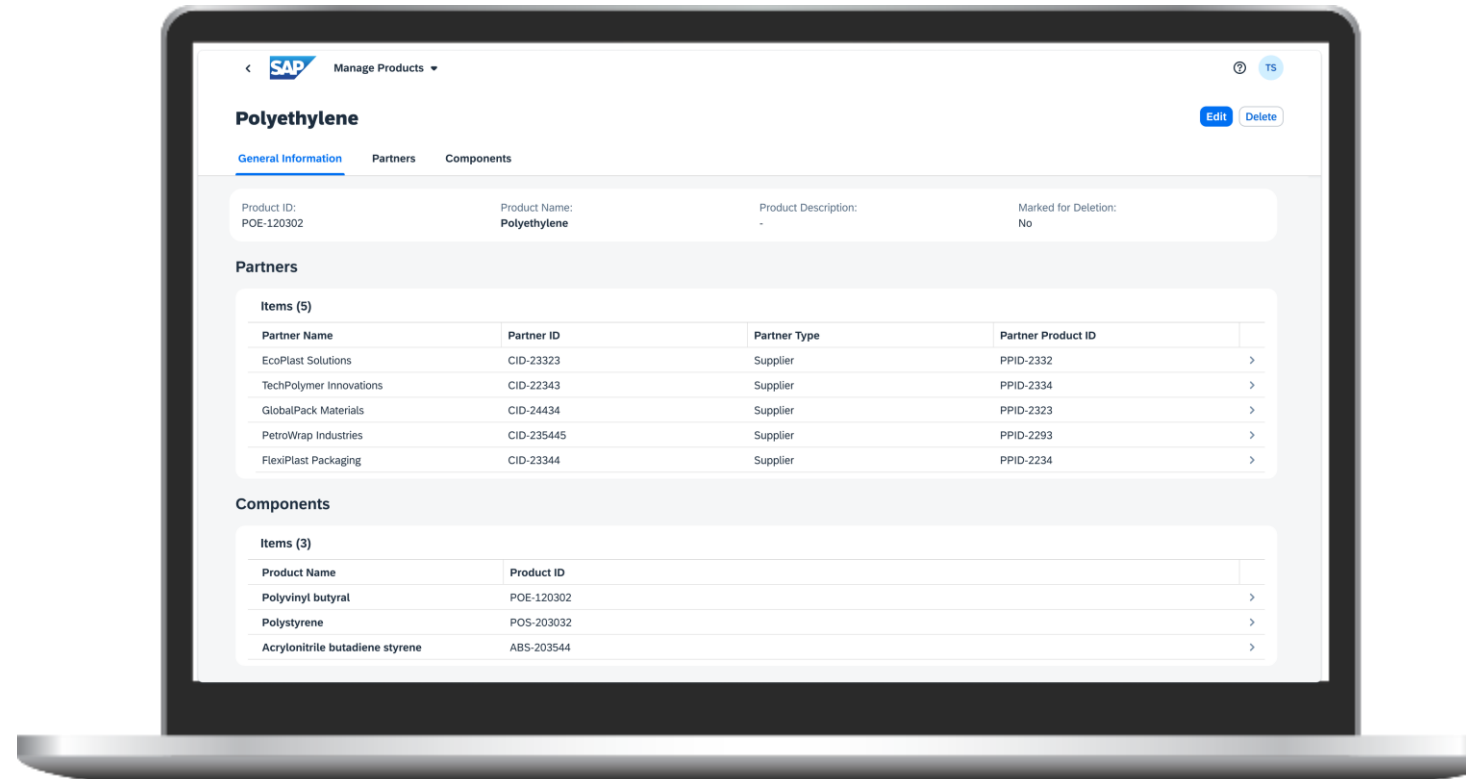
Make emission management more efficient by updating existing values and proactively sharing values.

Key product capabilities: Maintain Master Data (1/2) – Manually or File upload

Maintain master data (company, business partners as well as products) by manual entry and file uploads

Mainly in focus for SME subscribers
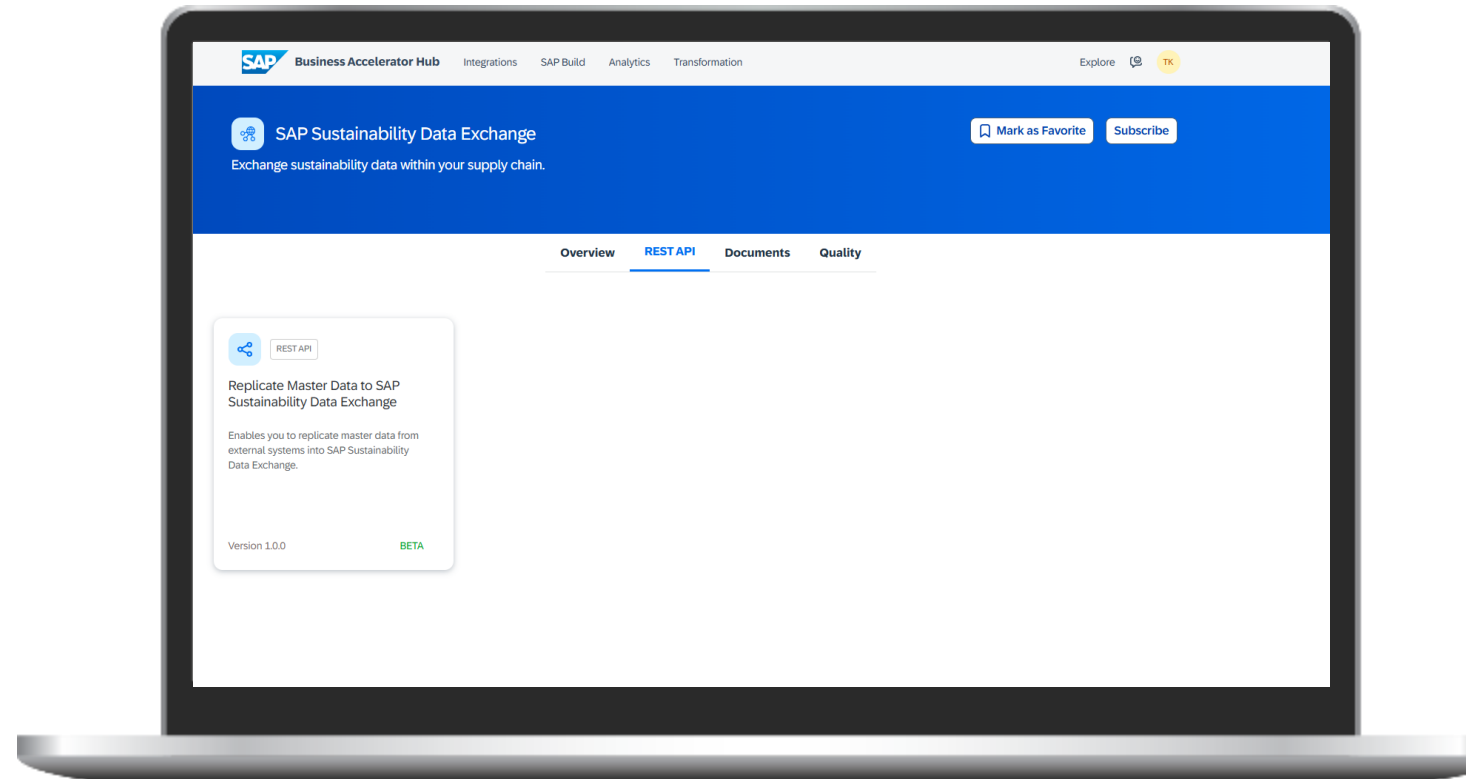
SAP Business Accelerator Hub

ERP integration planned for Q4 2024

Key product capabilities: Maintain Master Data (2/2) – ERP Integration*

Maintain master data e.g. business partners as well as products) via integration with ERP system.

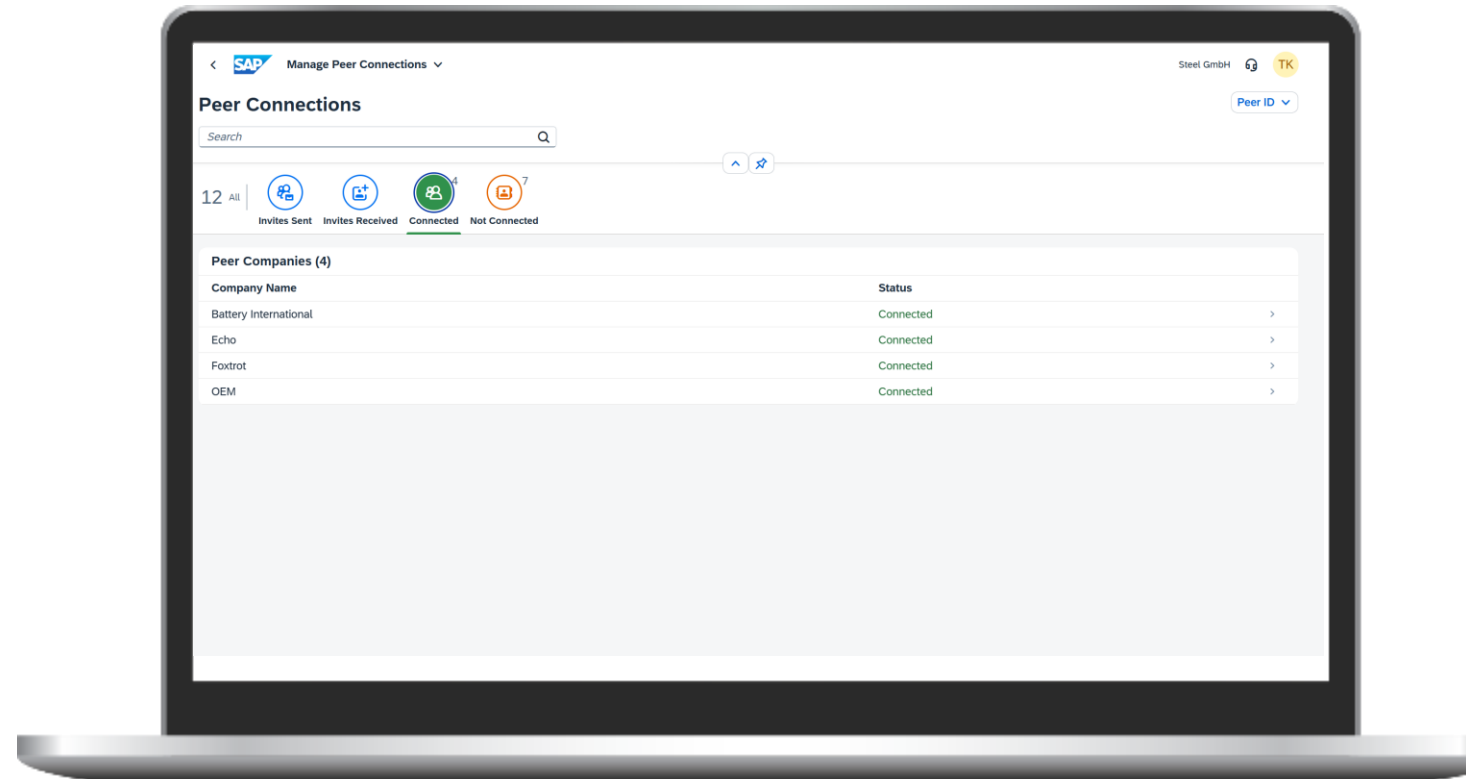Push API's are available for integration to any ERP system

SAP Business Accelerator Hub

*Native S/4 Integration planned for 2025

# Key product capabilities: Setup Peer connections

Within the SAP ecosystem. See members of Sustainability Data Exchange and their connection status.

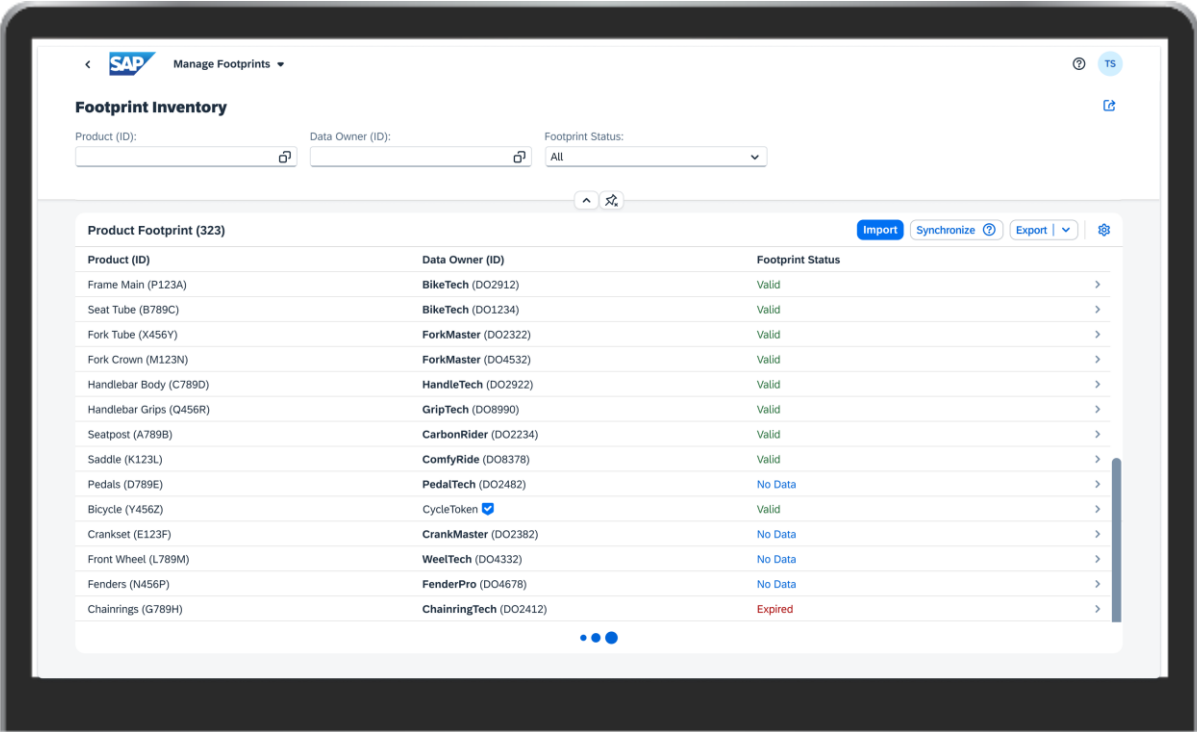# Key product capabilities: Request and manage supplier-specific PCF

As a **buyer**, request the suppliers to provide actual carbon footprint data (PCF) for the purchased products.

SAP Sustainability Data Exchange supports bulk requests to multiple suppliers.
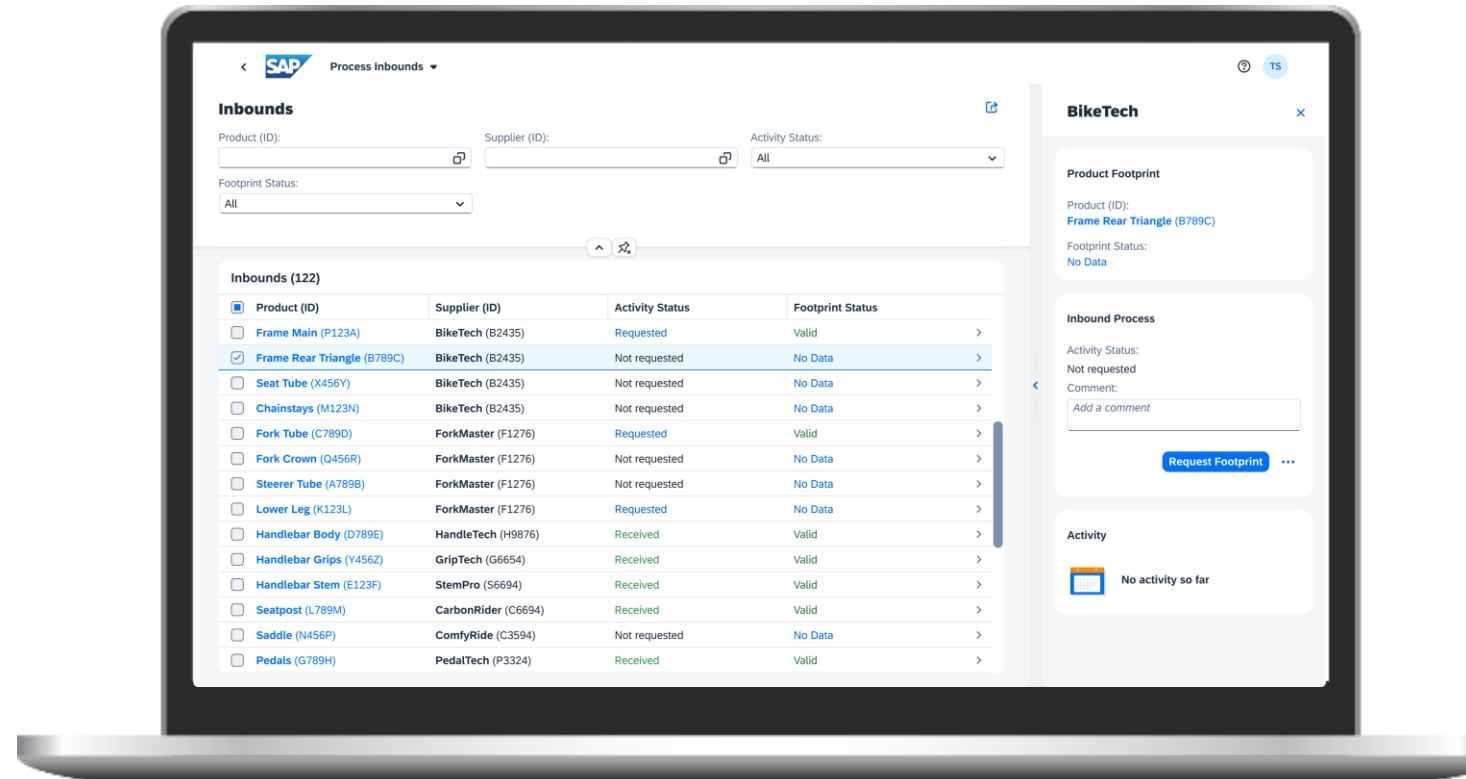
Key product capabilities: Manage PCF Inventory

Manage all PCF data of purchased products, as well as own finished products at one glance, with clear data ownership information
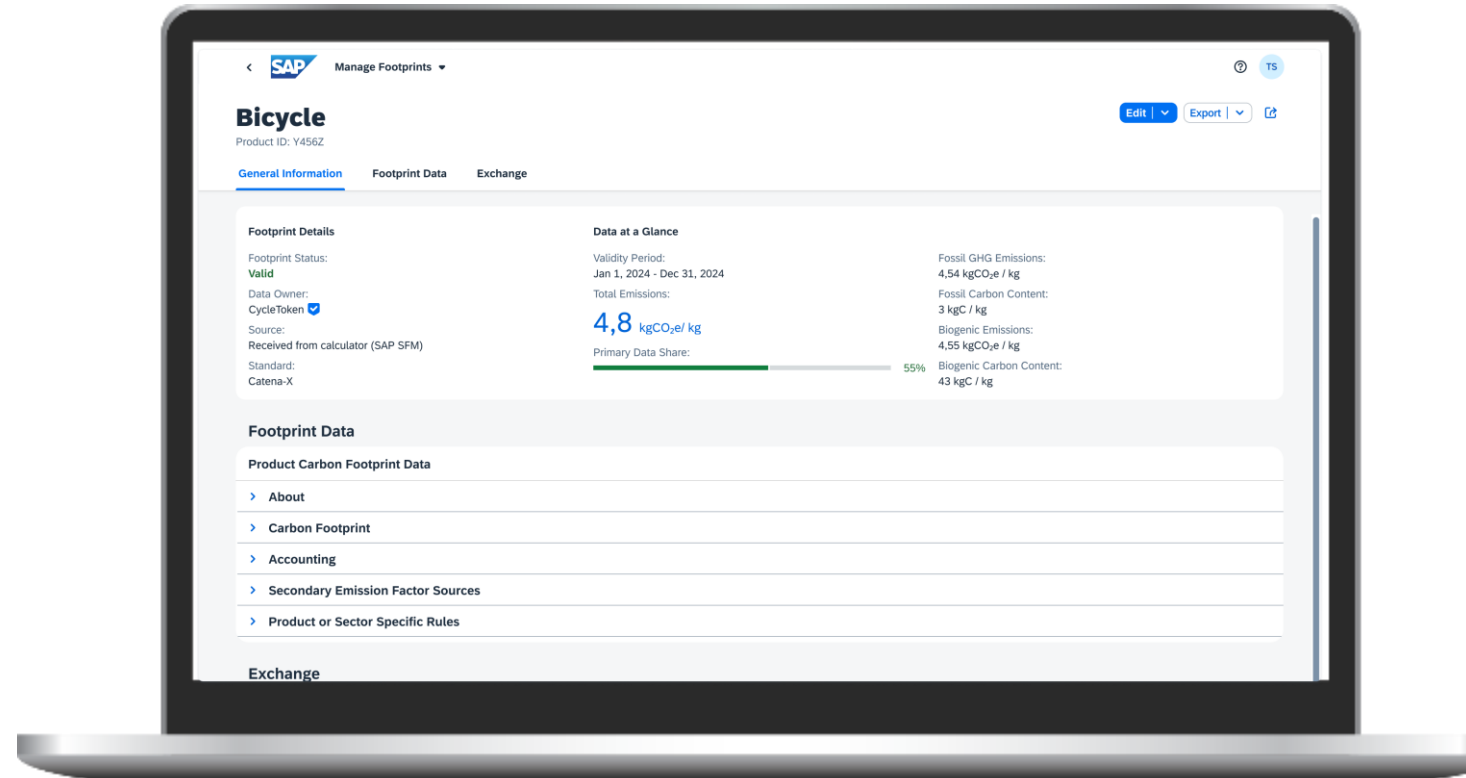
Key product capabilities: Maintain and update PCF based on standards

Maintain or update the PCF details based on standards (WBCSD PACT, Catena-X etc.) manually, or by importing the calculation results from an external calculator.

PCF results from SAP Sustainability Footprint Management can be imported automatically through out-of-the-box integration.

Key product capabilities: Share PCF and PCF updates with buyer

- As **supplier**, manage all buyer requests on PCF and respond through required communication channels (default, Catena-X, etc.).

- SAP Sustainability Data Exchange supports bulk responses to multiple buyers

- As **supplier**, proactively share PCF updates with byuers with or without a previous request
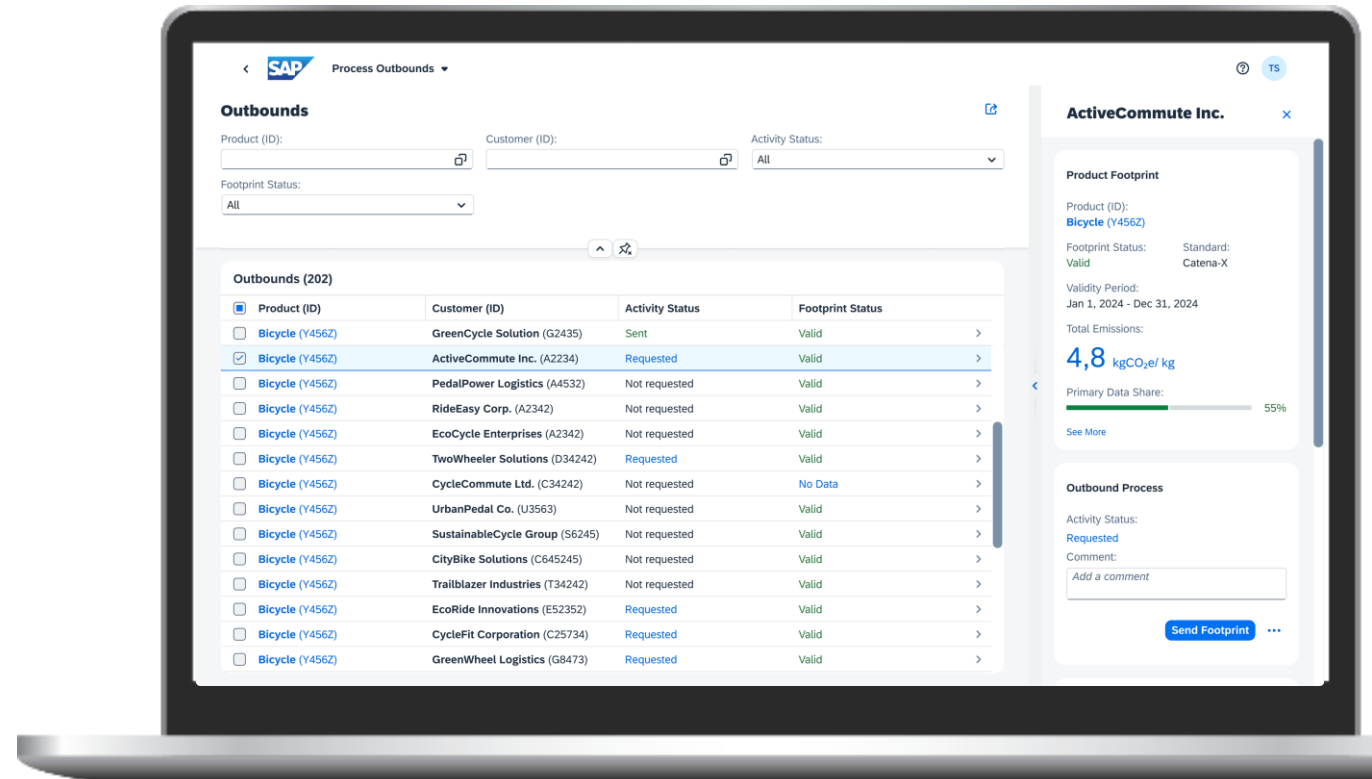
Key product capabilities - Integrate with external carbon accouting tools

SAP Sustainability Data Exchange provides standard APIs to integrate with external carbon accouting tools:

- Integrate supplier-specific PCF as emissions factor for own carbon accouting

- Import calculation results from external carbon accounting tool for own finished products

A native integration with SAP Sustainability Footprint Management is provided out of the box.
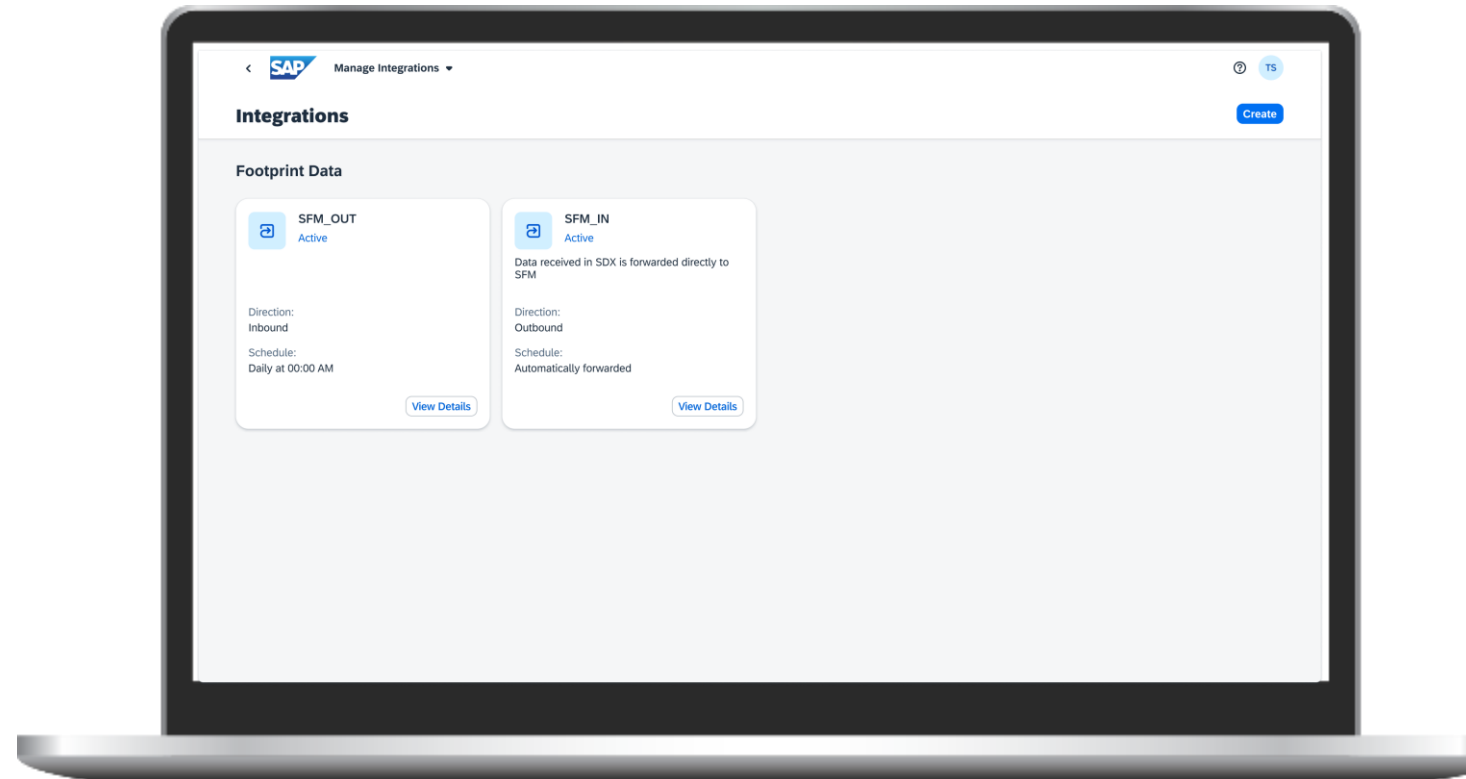
Network Integration: SAP Business Network and Industry Networks
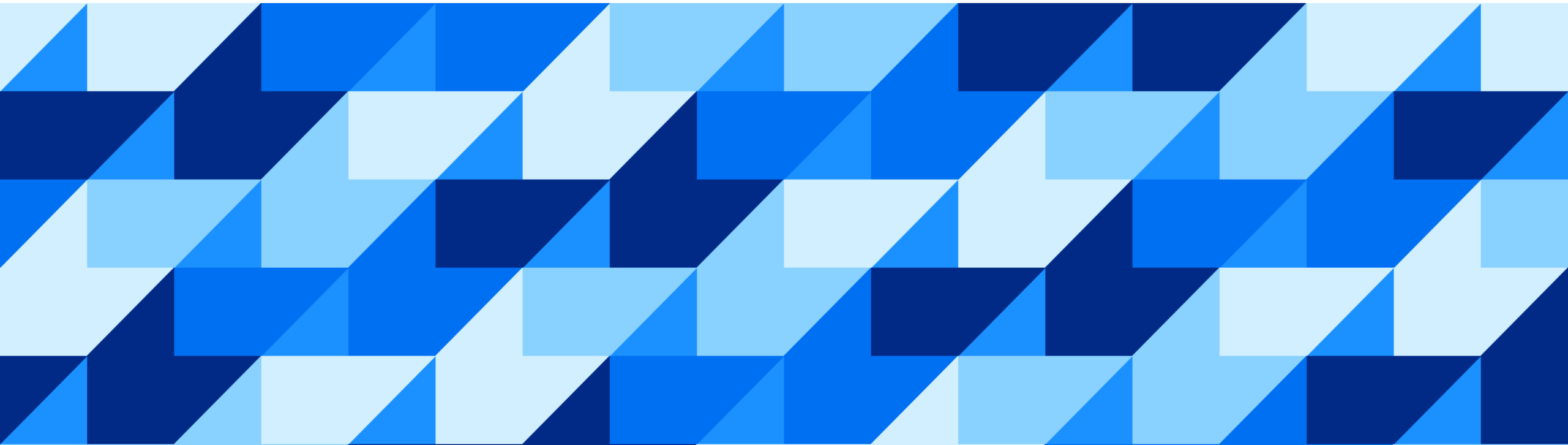
Network-powered Supply Chain with SAP Sustainability Data Exchange

SAP Business Network

Benefit of exchanging data in an ecosystem of 7M+ trading partners

Automotive Industry harmonization

With certified access to the CATENA-X network, and more X programs in the future

Standardized data exchange with PACT

PACT compliant exchange with a pool of conform solutions

Business Technology Platform

Common sustainability data foundation

SAP S/4HANA

SAP Green Ledger

SAP Sustainability Footprint Management

SAP Sustainability Data Exchange

SAP Business Network

Catena-X
Automotive Network

WBC
SSI
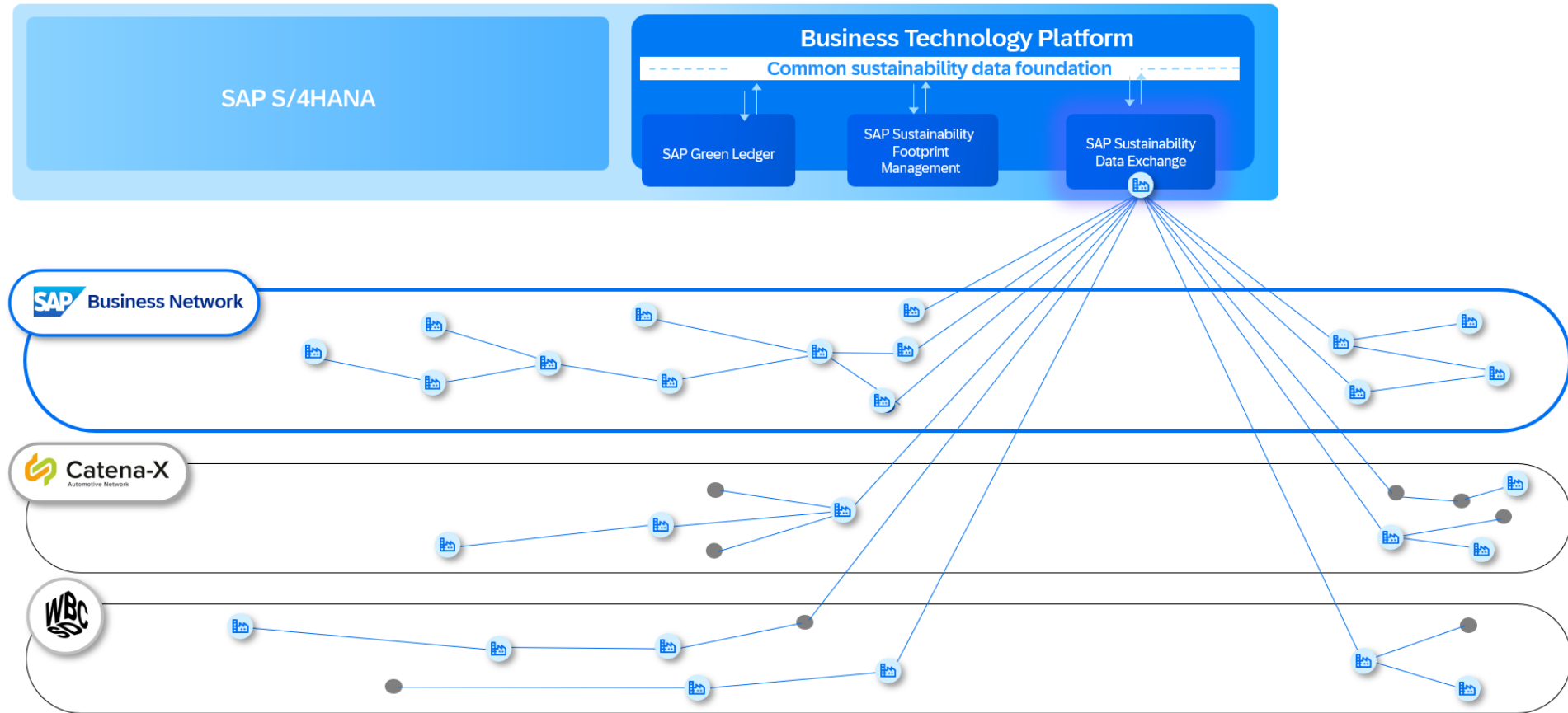
and more channels to come...

Integrating SAP Sustainability Data Exchange with SAP Business Network

Leverage the depth and breadth of a global network trusted by millions of businesses

Integration into the ONE directory and search capability in SAP Business Network helps you leverage a common registration, profile, and invitation process

- Take advantage of the depth and breadth of a global network trusted by **millions** of businesses, through which nearly **$6 trillion** in annual commerce is executed via **over 750** million transactions

- **Easily onboard** your suppliers through integration with the directory and invite non-member suppliers to join the network so they can collaborate using SAP Sustainability Data Exchange

- Exchange Scope 3 carbon emissions information with suppliers and buyers in **SAP Business Network** through a standardized process
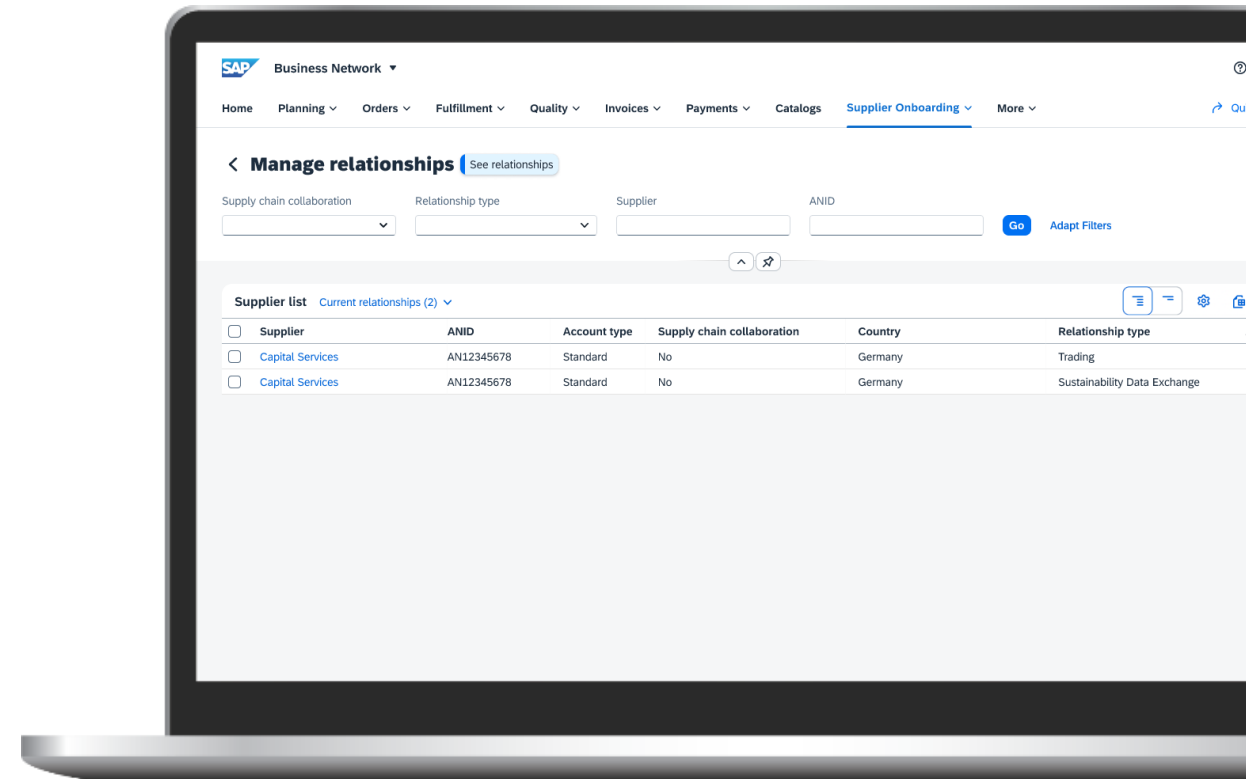
Demo

Network Integration: Industry Networks Catena-X
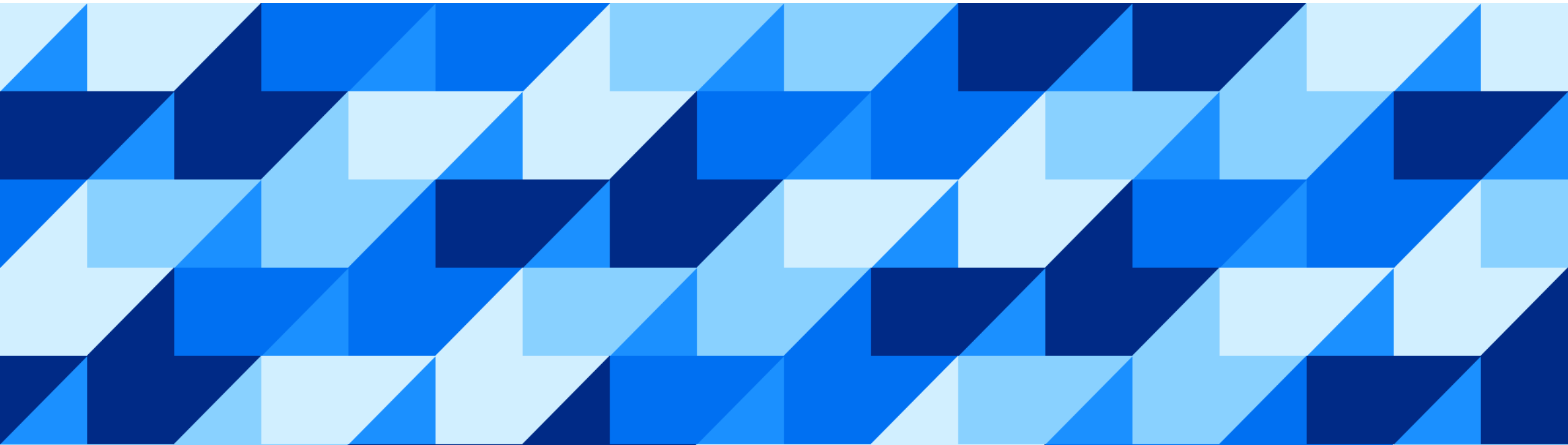
The Catena-X idea & DNA
Build & govern the 1st **Trusted Multi-Tier Business Collaboration Network**

Layer 1: Build & govern
Full industry re-presentation
→ OEM / supplier / recycler / SME
→ Solution- / service provider

Layer 2: Scale
Global re-presentation
→ Regional alliances
→ Local hubs

Layer 3: Transfer
X-Industry re-presentation
→ Comparability & interoperability
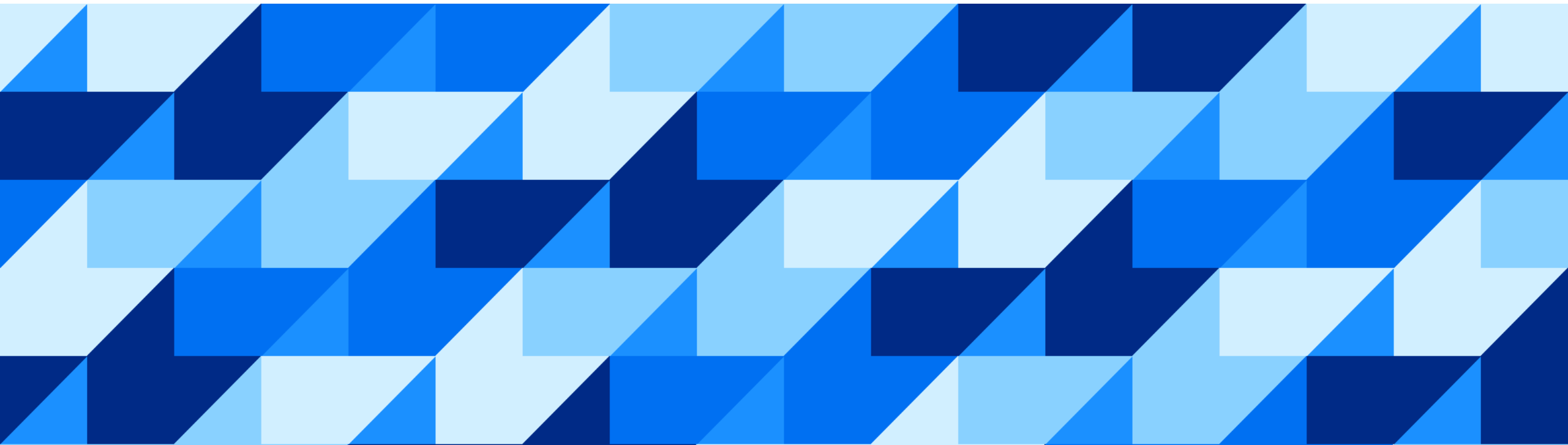→ Re-use / synergies

selected industry eco-systems partners

Temp. guidance-/ collaboration partners

many more…

Status 10/24:
192 association members

Status 10/24:
~ 6,000 companies reached

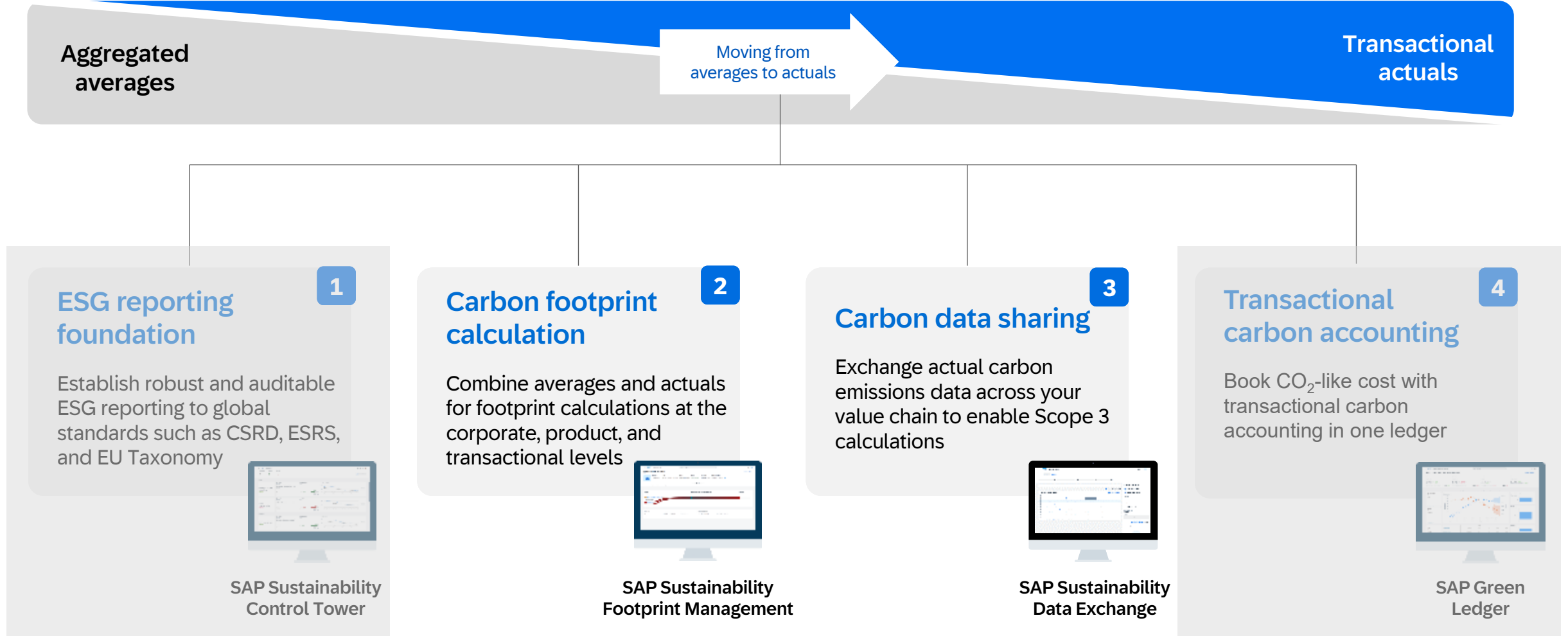Trusted Catena-X data eco-system / industry operations

Integration with SAP Sustainability Footprint Management

Future-proof journey: Moving from averages toward actuals

Start your journey now and gradually move towards highly accurate transactional carbon accounting with SAP solutions
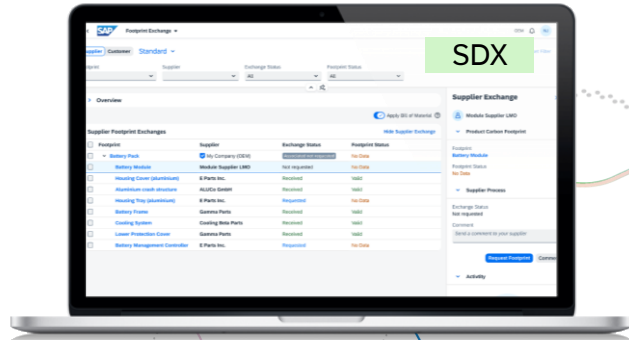
Transactional carbon accounting

Aggregated averages

Moving from averages to actuals

Transactional actuals

1 ESG reporting foundation

Establish robust and auditable ESG reporting to global standards such as CSRD, ESRS, and EU Taxonomy

SAP Sustainability Control Tower

2 Carbon footprint calculation

Combine averages and actuals for footprint calculations at the corporate, product, and transactional levels

SAP Sustainability Footprint Management

3 Carbon data sharing

Exchange actual carbon emissions data across your value chain to enable Scope 3 calculations

SAP Sustainability Data Exchange

4 Transactional carbon accounting

Book CO_2-like cost with transactional carbon accounting in one ledger

SAP Green Ledger

Carbon Footprint Management Demo Flow

Customer

OEM – Battery Pack/Module

Supplier

Supplier – Battery Cells

SDX

SDX

1 PCF Request

2 PCF Response
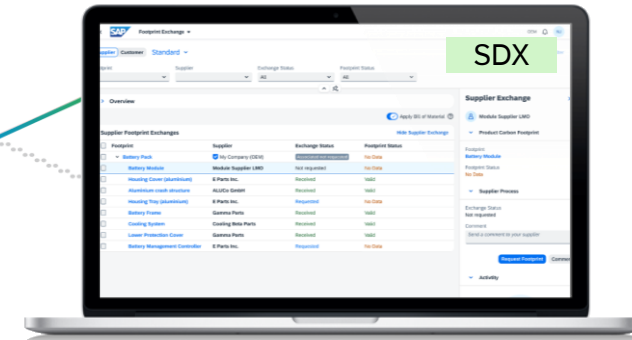
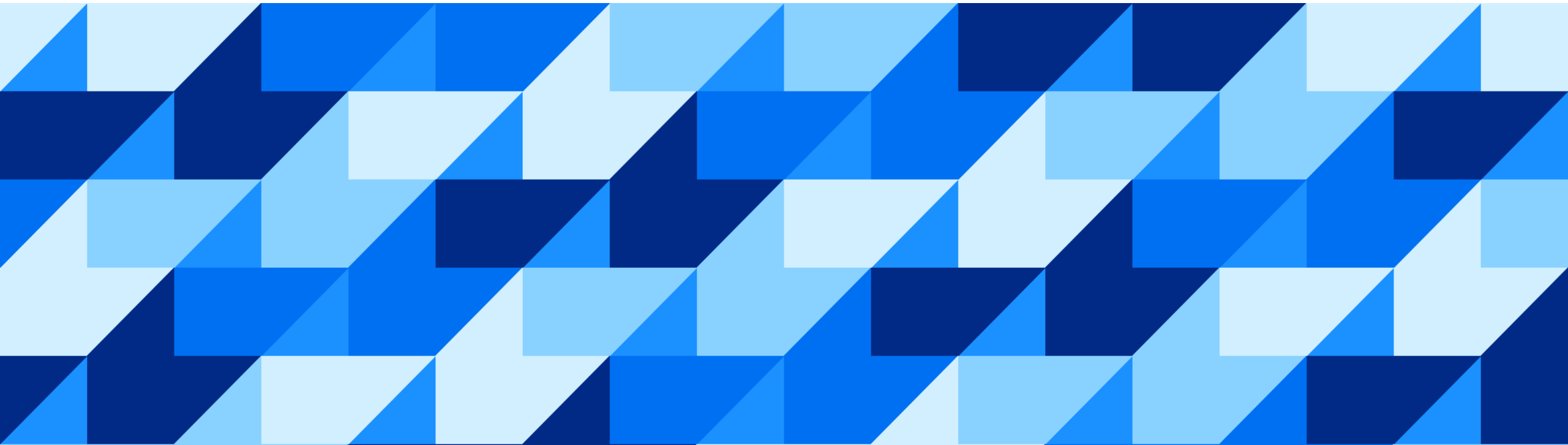**3** Integrate Supplier-specific Emission

5 Publish calculation results

SFM
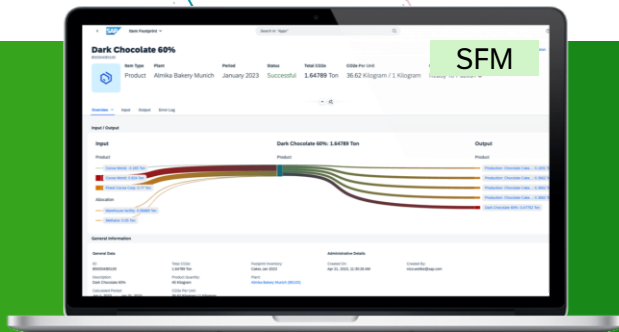
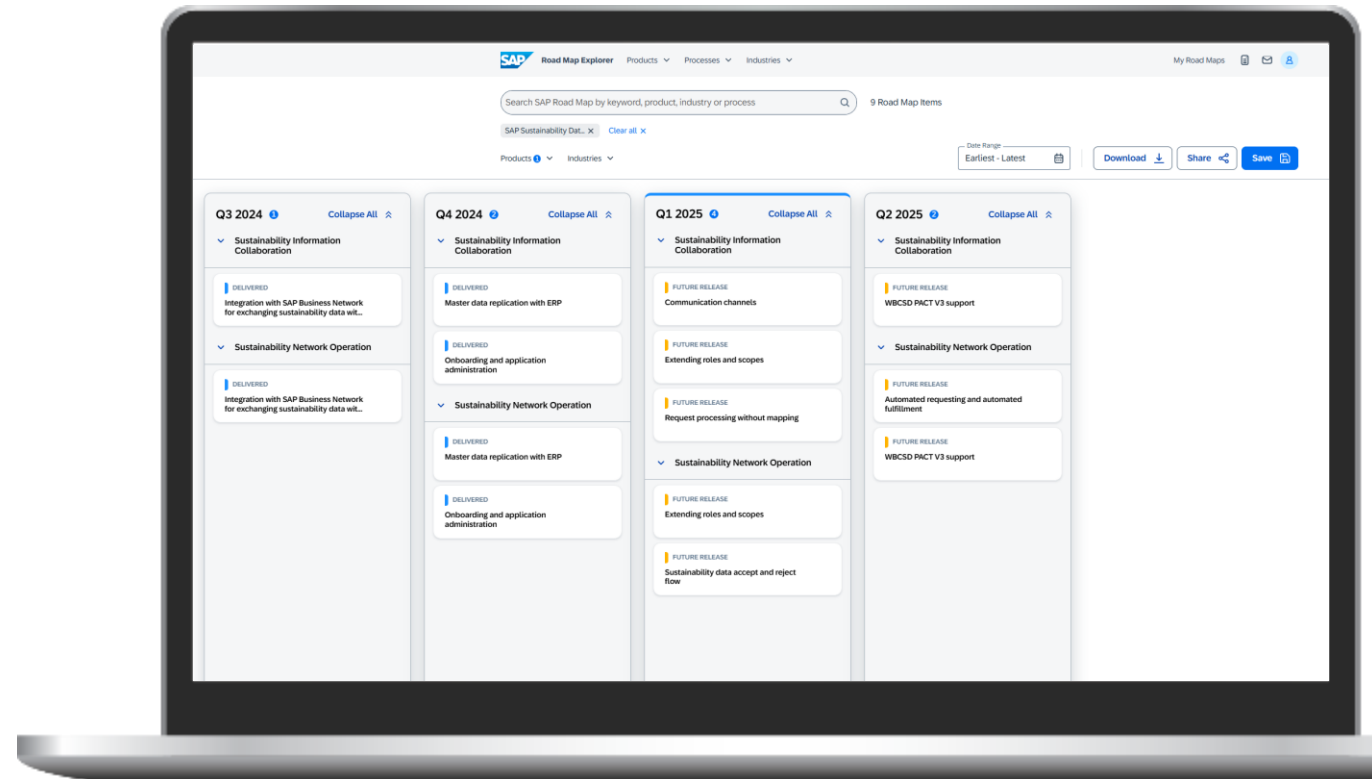**4** Calculate own PCF/CCF

Demo

Product Outlook

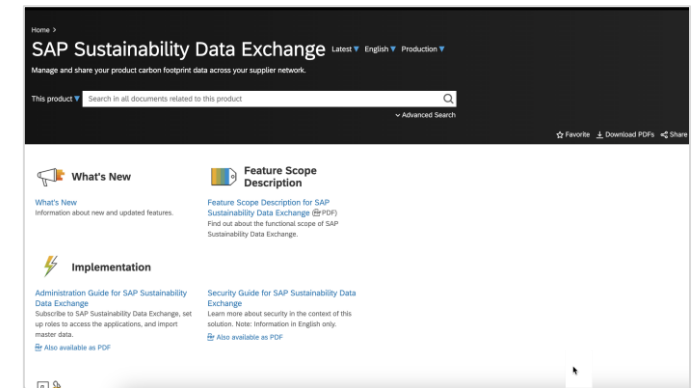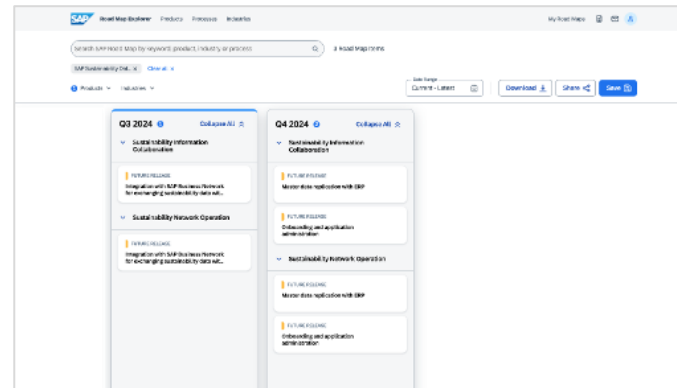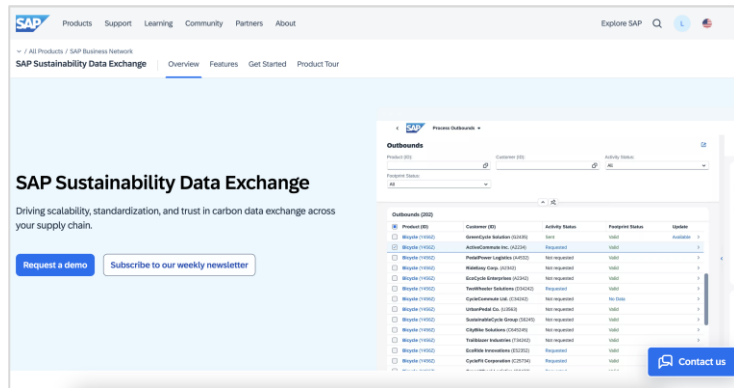# Product Roadmap - What is to come

Focus for 2025:

- WBCSD PACT new version 3 which will e.g. add Services

- Functional improvements like accept/rejecting data

- Automation scenario's

SAP Roadmap Explorer - SDX

Relevant assets and information

Product overview

[SAP Sustainability Data Exchange (sap.com/sdx)](sap.com/sdx)

SAP Roadmap Explorer tool

[SAP Sustainability Data Exchange road map](#)

Help portal

[Administration guide, user guide, security guide,](#) and so on

Thank you.

SAP Bring out your best.