



Harnessing Technology for a Greener Tomorrow

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Public





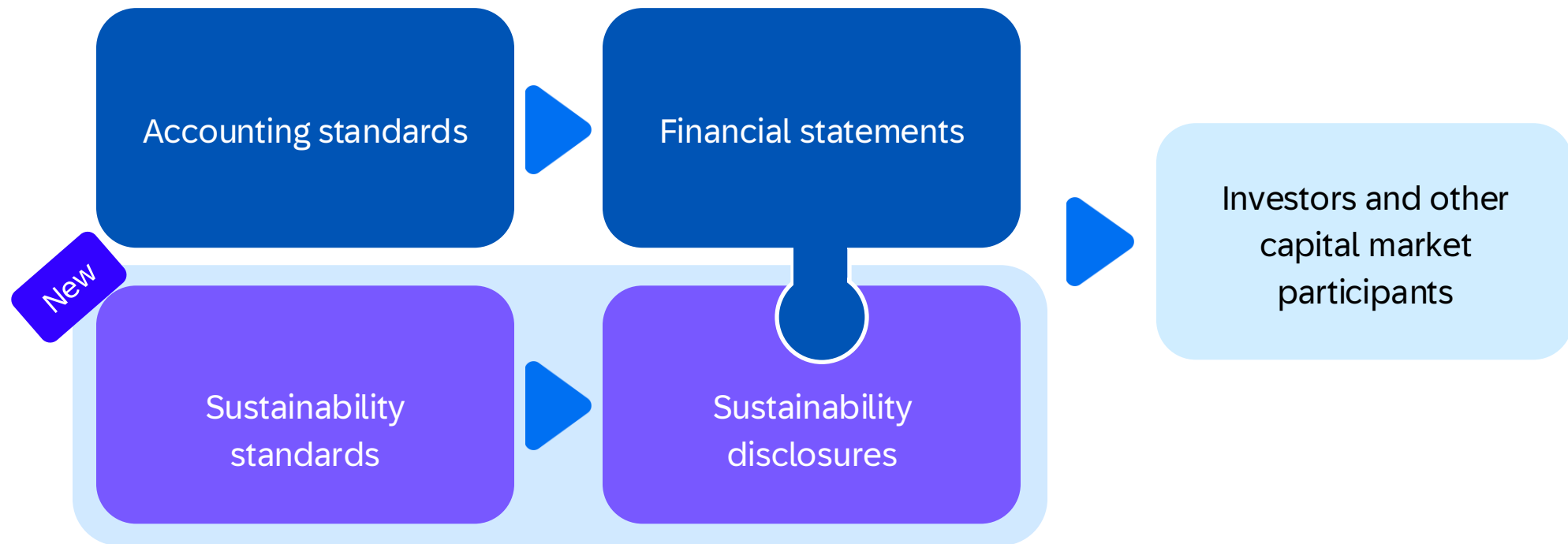
Topics

- 01 What is the context?**
 - Rapid pace of change
- 02 What is the business impact?**
 - Industry-specific needs
- 03 How to seize the opportunities?**
 - Going beyond compliance
- 04 How to get started?**
 - Staying ahead of the game



01 | **What is the context?**

There is a seismic shift in corporate disclosures, based on the IFRS standards for Sustainability



New corporate disclosure regulations are being introduced globally

Businesses needed audit-ready disclosure capabilities today - and tomorrow

Disclosure requirements evolving globally

The Climate Corporate Data Accountability Act requires companies in California to report their Scope 1, 2, and 3 GHG emissions.

SB253

CSRD will start to have impact in 2024, up to 50.000 companies within the EU need to start recording their sustainability impact

CSRD

Comprehensive global baseline of sustainability disclosures focused on the needs of investors and the financial markets

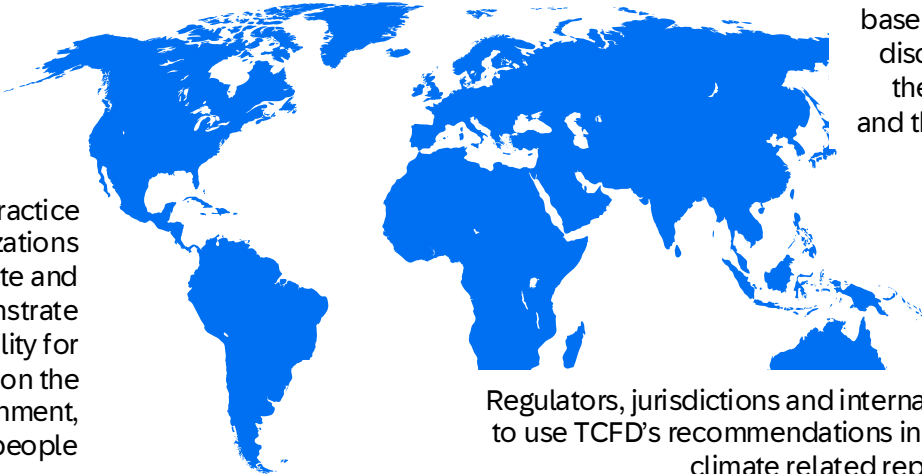
ISSB

Global best practice for how organizations communicate and demonstrate accountability for their impacts on the environment, economy and people

GRI

Regulators, jurisdictions and international standards to use TCFD's recommendations in development of climate related reporting standards

TCFD



IFRS Foundation

More that **20 jurisdictions** are taking steps to introduce ISSB, representing:

- nearly **55%** of global GDP
- more than **40%** of global market capitalisation
- more than **half** of global greenhouse gas emissions

[Source: IFRS Foundation News](#)

Regulated carbon pricing has a significant financial impact globally

COMPLIANCE MECHANISMS

CARBON CREDIT MARKETS

COMPLIANCE MECHANISMS				CARBON CREDIT MARKETS	
Instrument Detail	GHG Emissions Coverage	Price	Revenue	Instrument Detail	Issuance

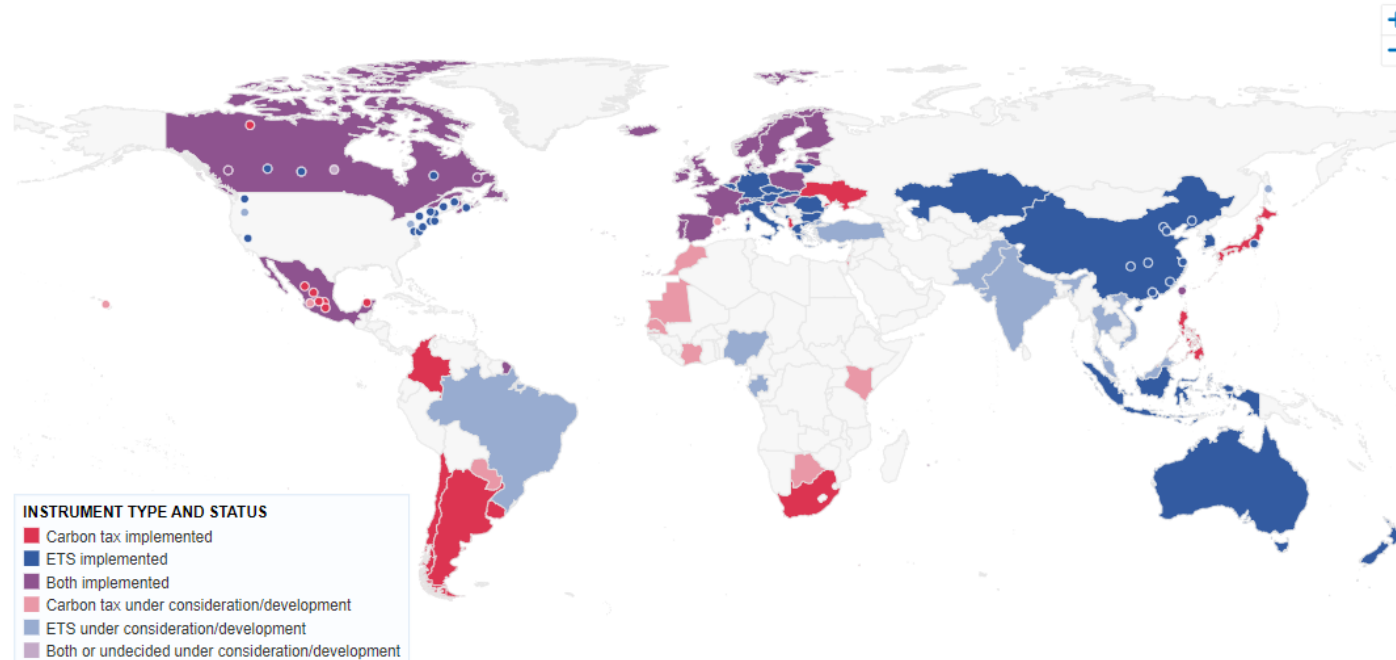


104
billion USD
in government
revenue
in 2023

Compliance carbon pricing instruments around the world, 2024

Map shows jurisdictions with carbon taxes or emissions trading systems implemented, under development or under consideration, subject to any filters applied in the table below the map. The year can be adjusted using the slider below the map.

Download



Source: World Bank - State and Trends of Carbon Pricing 2024



02 | What is the business impact?

What are the key drivers and opportunities?

Drivers for Change

Regulations

- ETS linked to CBAM
- ESG reporting CSRD, EU Taxonomy
- Digital Product Passports, ESPR
- Energy Performance of Buildings Directive, EPBD
- Critical Minerals Act
- Deforestation Regulation, EUDR
- Supply Chain Acts, CSDDD

Standards

- IFRS S1, S2 sector specifics
- Greenhouse Gas Protocol
- wbcSD PACT; Catena-X

Business Opportunities

New business models

- Mining waste, secondary extraction
- Recycling rules, plastic & minerals
- Construction materials shift

Public Investment

- US Inflation Reduction Act
- EU Green Public Procurement

Brand Opportunity

- Investor pressure
- Consumer demand

The main imperative



What is unique for each of the industries?

		Obligation	Opportunity
General		<ul style="list-style-type: none"> • ETS and Carbon Pricing • ESG: IFRS S1 S2, CSRD, EU Taxonomy • Supply Chain Acts, CSDDD 	<ul style="list-style-type: none"> • Product emissions: PACT, ISO, RMI, etc. • Differentiators: Social Procurement
Mining		<ul style="list-style-type: none"> • Permits, license to operate • Land, water, bio diversity and rehab • Digital Product Passports, ESPR 	<ul style="list-style-type: none"> • Critical Minerals Act • Mining waste, secondary extraction • Portfolio adjustments (M&A)
Metals		<ul style="list-style-type: none"> • ETS and CBAM • Digital Product Passports, ESPR • Circular Economy 	<ul style="list-style-type: none"> • US IRA investment needed • EU Green Public Procurement • Catena-X automotive; EPD construction
Building Materials		<ul style="list-style-type: none"> • Deforestation Regulation (EUDR) • Energy Performance of Buildings Directive (EPBD) 	<ul style="list-style-type: none"> • EU Green Public Procurement • Requires shift from LCA, EPD labels • Shift to alternative materials
Packaging Materials		<ul style="list-style-type: none"> • Extended Producer Responsibility • Packaging and Packaging Waste Directive • Single-Use Plastic Directive • Plastic packaging taxes (UK, Spain) 	<ul style="list-style-type: none"> • Consumer demand, market opportunity • Requires shift in product labels
Chemicals		<ul style="list-style-type: none"> • Chemicals of Concern • REACH • CBAM evolution 	<ul style="list-style-type: none"> • Together for Sustainability TfS • Consumer demand, market opportunity • Requires shift in product labels

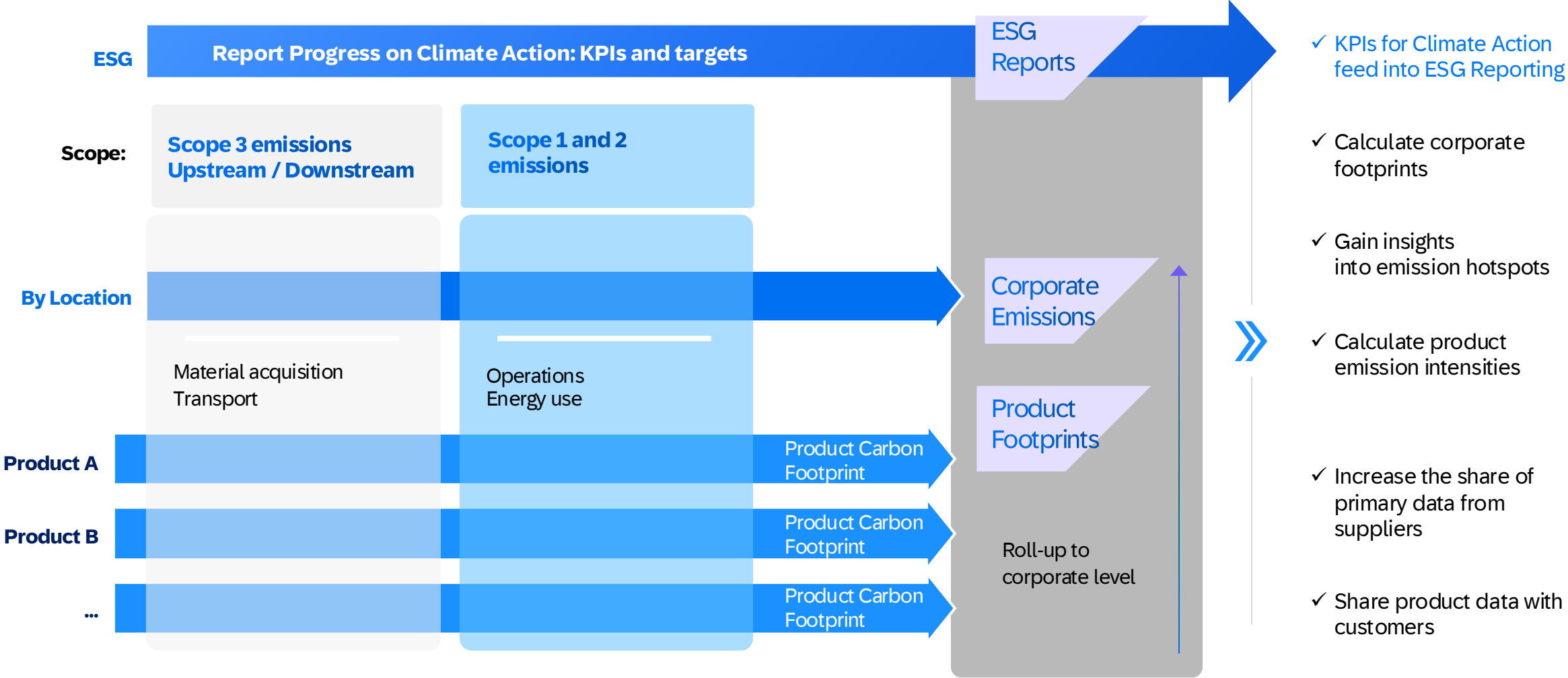
One size does not fit all!





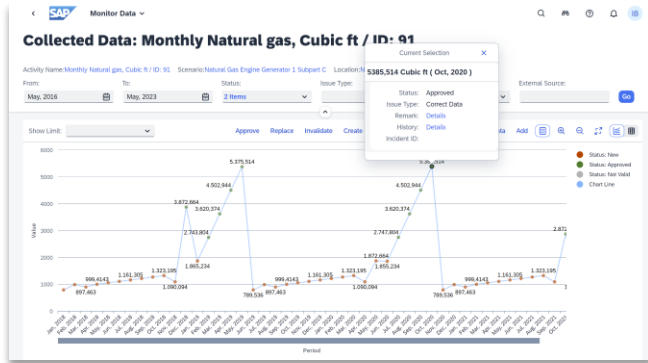
03 | How to seize the opportunities?

Revisiting existing processes to meet new requirements

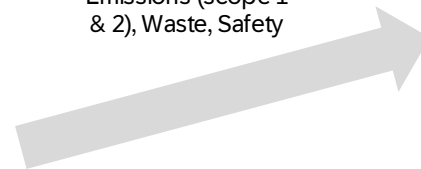


The SAP Sustainability portfolio is integrated to support these business needs

SAP S/4 HANA Environment Management



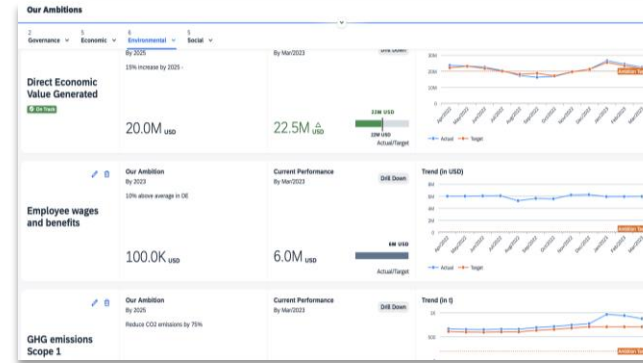
Corporate GHG Emissions (scope 1 & 2), Waste, Safety



GHG Emissions (Scope 1 & 2)



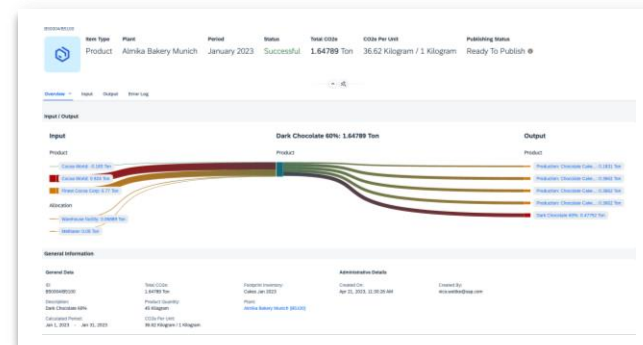
SAP Sustainability Control Tower



Organizational Footprint (Total CO₂e)



SAP Sustainability Footprint Management



SAP Sustainability Data Exchange

Product Footprints – supplier specific (CO₂e)



The importance of an ERP-centric approach for Sustainability data

Mandatory requirements

Multiple outputs are needed:

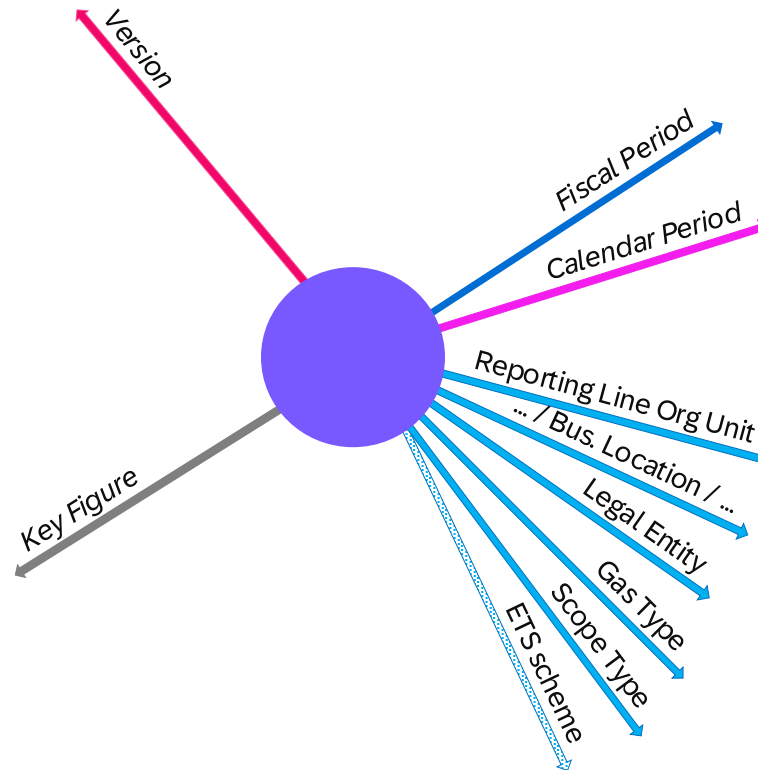
- ❑ By Country, Region, or State
- ❑ By Location, or Equipment
- ❑ By Operating Control
- ❑ By Financial Control
- ❑ By Equity Share % JV



What it means for businesses:

- ❑ Results differ by reporting requirement
- ❑ Need to recalculate data at group level
- ❑ Must keep track of multiple factors used
- ❑ Must collect and retain granular raw data

Example of KPI for GHG Scope 1 with CSRD



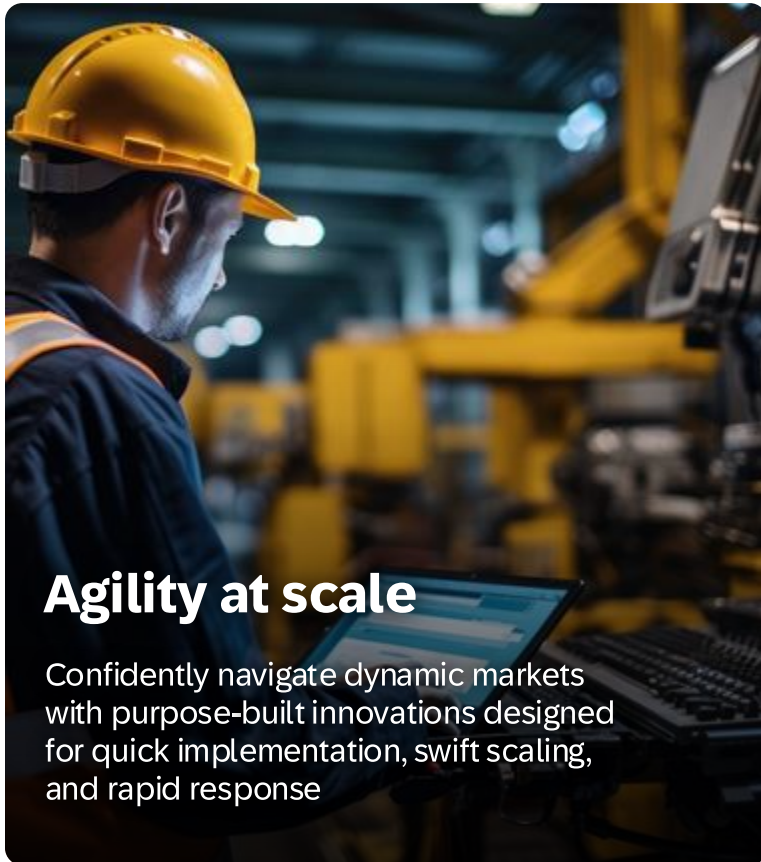
Source data can be modelled in SAP S/4 HANA Environment Management and reported in SAP Sustainability Control Tower



04 | How to get started?

We bring out the best in every business

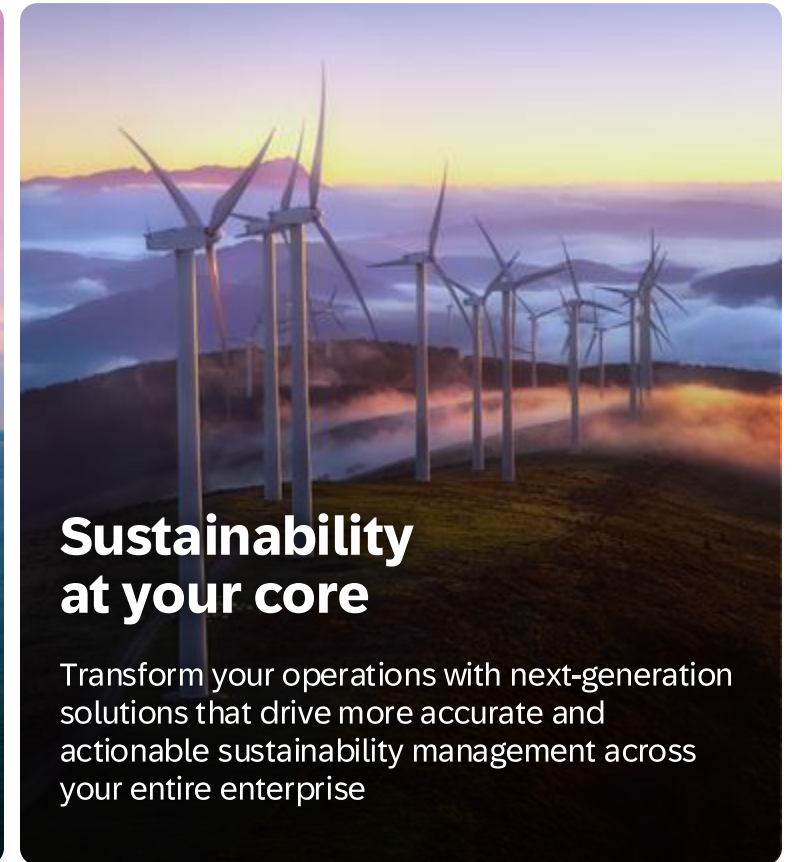
From the perspective of Process and Natural Resources Industries



Scalable solutions that are fit for the future

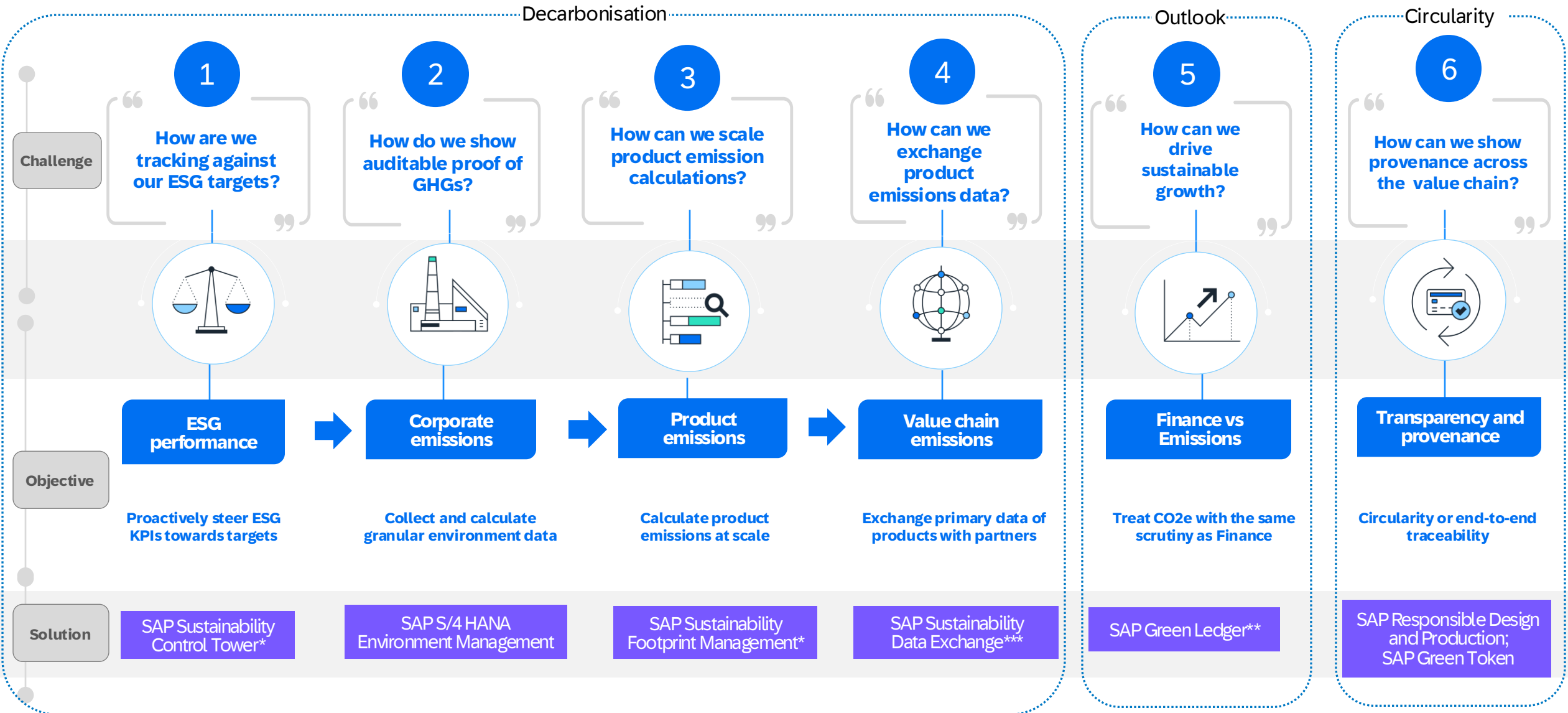


Leverage sustainable business partners globally



Ensure license to operate and access to capital

How SAP's Sustainability portfolio can address typical business challenges



Business AI

*Integrated with SAP S/4HANA Cloud and as a feature of SAP RISE and GROW; **Future vision *** General Availability soon

Reinvent the “R” in ERP

The Path to the Green Ledger

Expand the definition of “resources” to act on carbon in sync with financial data

- ▶ Quantify CO2e at a granular level
- ▶ Leverage the same rigor for CO2e as for Finance
- ▶ Make informed operational and strategic decisions

Innovations and Road Maps for SAP Business AI

SAP Business AI capabilities in Sustainability

Automated emission factor mapping with AI

SAP Sustainability Footprint Management: AI saves you time by generating proposed mappings for emission factors for products and product groups.

See [SAP Help Portal](#)

ESG Report Generation with AI

SAP Sustainability Control Tower: Streamline the generation of periodic reports, freeing up valuable time on driving sustainability strategy and executing impactful programmes.

Visit [sap.com](#)

SAP Business AI capabilities related to Procurement

Accelerate category strategy development with AI

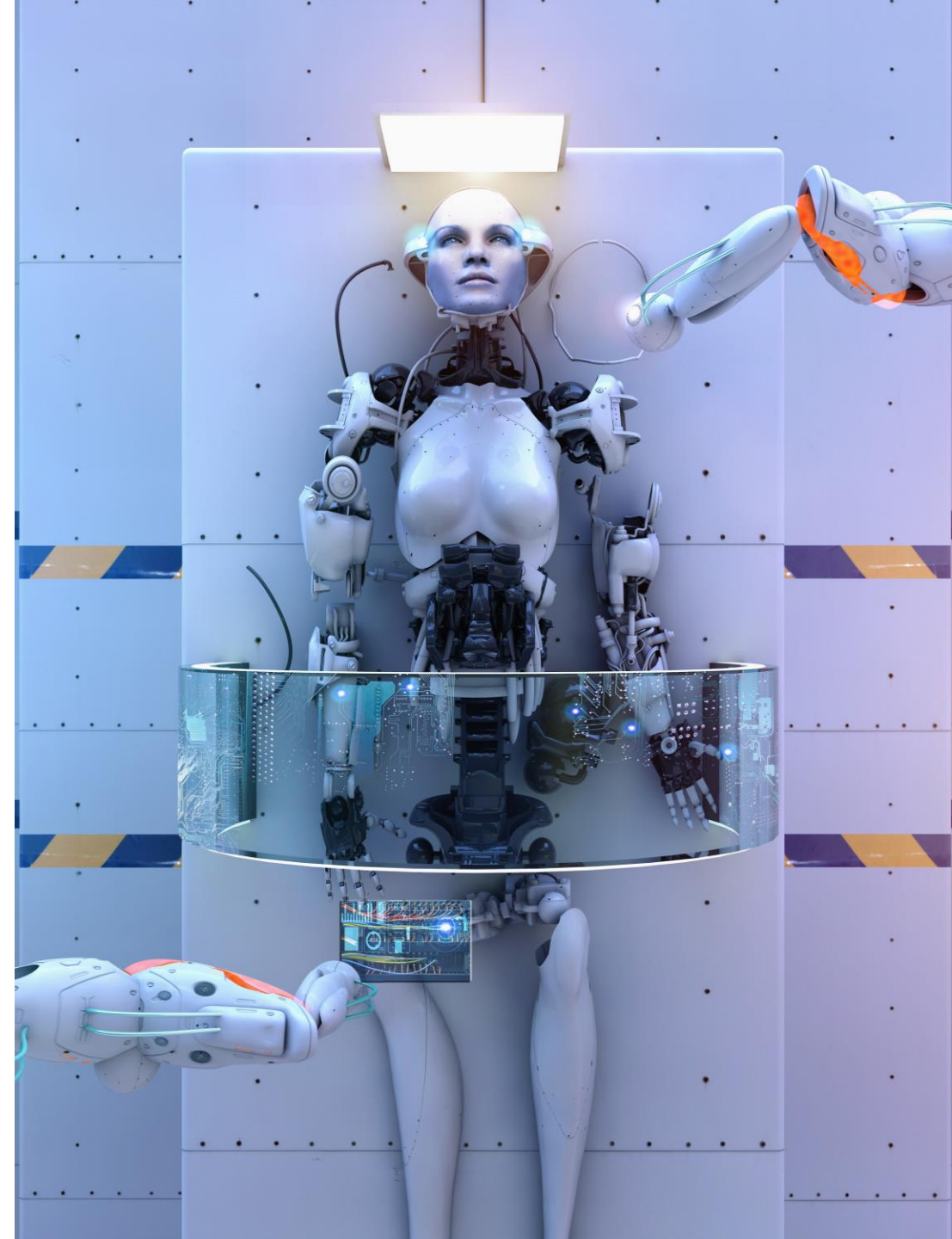
SAP Ariba Category Management: Generative AI-enabled features can assist category managers by generating recommendations in the solution's category segmentation, market dynamics, and cost structure tools.

[Watch the video](#) or [Read the blog](#)

Accelerate, automate & scale document processing with AI

Document Information Extraction, Premium Edition: Transform unstructured documents to structured information and embed the information into business processes for instant value.

[Read the blog](#)



Select sustainable seat covers with AI

by MARTUR FOMPAK INTERNATIONAL

Martur Fompok International (MFI) is one of the world's leading suppliers in automotive seat production.

MFI has built a metaverse platform using **RISE with SAP, SAP Sustainability Footprint Management, SAP AI Launchpad, and SAP AI Core**, allowing customers to select their seat cover designs by uploading pictures and choosing from recommended sustainable fabric options.

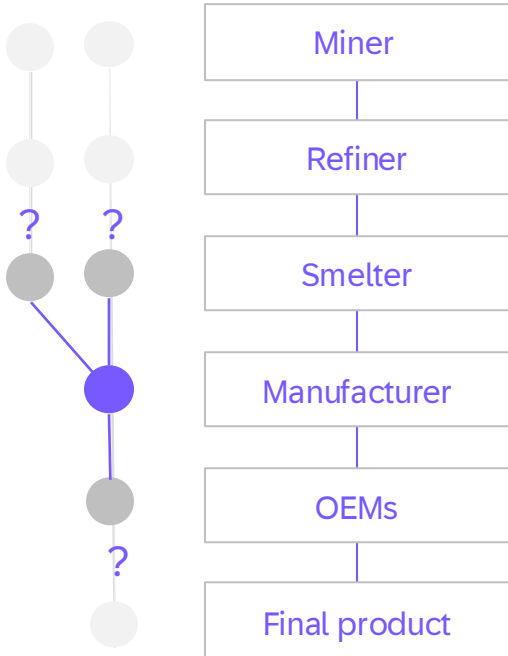


Read the full details [here](#) or [watch](#) their story

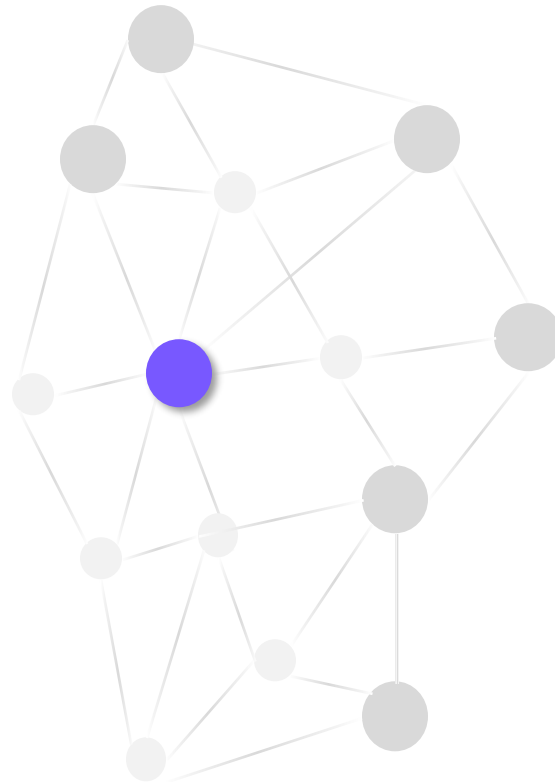
SAP Sustainability Data Exchange supports the move from estimates to actuals



From estimates



To actuals



Leveraging the SAP Business Network



SAP Sustainability Data Exchange allows for...

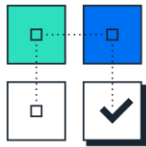
- 1 Exchange of CO2e through the value chain, for increased accuracy of Scope 3 emissions
- 2 Harmonizing product carbon footprint accounting
- 3 Obtaining data sovereignty and interoperability
- 4 Adding industry specific extensions, aligned with wbcscd



In collaboration with:



Where to find more information



Explore the solutions



SAP Sustainability Solutions

Discover [SAP Sustainability Solutions](#) as part of the broader portfolio with SAP Cloud for Sustainable Enterprises.

Sustainability Navigator

Use the [Sustainability Navigator](#) to explore other solutions beyond the Sales Play use cases



Find a connection



Sustainability Community

The [SAP Sustainability Community](#) is an active space where the public can engage with others, get the latest news and attend info sessions and webinars

Customer References

Explore the wide range of [customer reference stories](#)



Keep learning



SAP Learning

Say goodbye to OpenSAP, and hello to [SAP Learning](#), as your all new one-stop-shop

LearningHub

Subscribers have several training options available as [Learning Journeys](#), such as this course on SAP Cloud for Sustainable Enterprises

Thank you.

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