Sustainability Management by SAP
SAP Product Footprint Management

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THE BEST RUN **SAP**

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Climate Action

## Contribute to a zero carbon economy by reducing your environmental footprint

Absolute Facts

- Environmental risks to cause $120B 'Chain Reaction' for companies by 2026

- Customers want insights on product-level impact. Accountability a must for companies, across all Scope 1,2,3 operations

- Carbon management could deliver $26T trillion in economic benefits by 2030, generating more than 65 million jobs

We Need to Act Now

- Cross-industry action, enabling business leaders to uncover new business potential, looking beyond the focus of climate pledges

- Empower consumers to make better informed low-carbon decisions

- Unleash the full power of digitalization to improve energy efficiency, enabling the just transition and nature regeneration
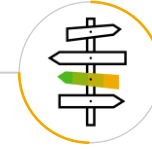
What's our Ambition

- Provide corporate and product footprints to reduce carbon emissions across the value chain and exchange data with customers and business partners

- Optimize for CO2: Redesign products, operations and services for sustainability

- Low-carbon governance aligning internal incentives, empowering your organization to take action on zero emissions

Zero Emissions with Climate Action

SAP S/4HANA EHS Environment Management & SAP Product Footprint Management

CORPORATE FOOTPRINT

GHG Protocol
Scope 1,2,3

SAP S/4HANA®

EHS: Environment Management *

"Measure, calculate, track and report GHG Emission Inventories to meet corporate reduction goals"

Zero Emissions with
Climate Action

PRODUCT FOOTPRINT

GHG Protocol
Scope 1,2,3

SAP Product Footprint Management

"Calculate product footprints at scale considering the entire product lifecycle for disclosure and internal product optimization"
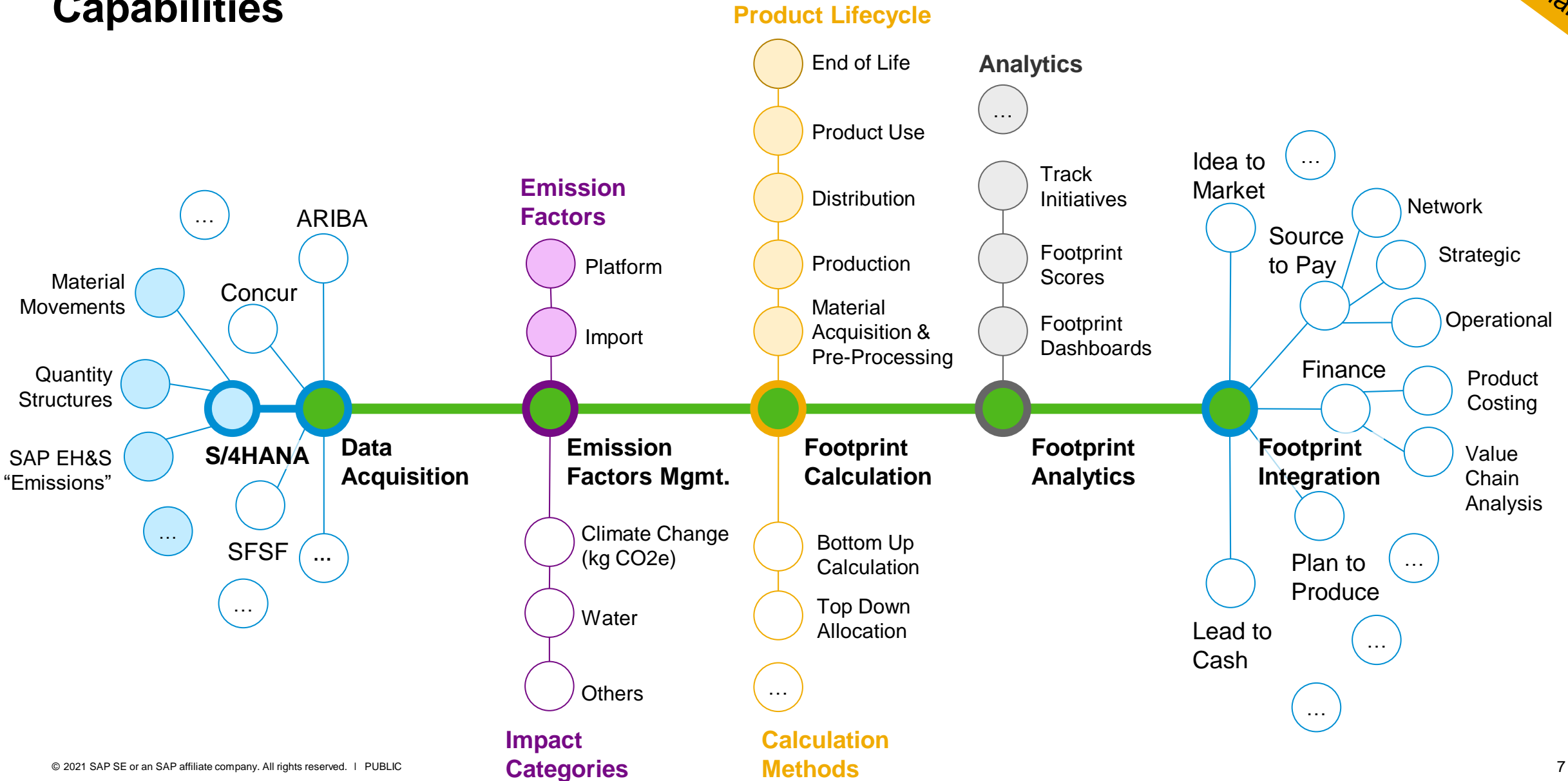
* GHG Inventories is only one use case in SAP S/4HANA EHS

Product Demo

Executing on our Climate Action Strategy

SAP Product Footprint Management
Capabilities

Product Lifecycle
- End of Life
- Product Use
- Distribution
- Production
- Material Acquisition & Pre-Processing

Analytics
- ...
- Track Initiatives
- Footprint Scores
- Footprint Dashboards

Emission Factors
- Platform
- Import

Material Movements
...
ARIBA
Concur
Quantity Structures
SAP EH&S "Emissions"
SFSF ...
...

S/4HANA **Data Acquisition**

Emission Factors Mgmt.
- Climate Change (kg CO2e)
- Water
- Others

Impact Categories

Footprint Calculation
- Bottom Up Calculation
- Top Down Allocation
- ...

Calculation Methods

Footprint Analytics

Footprint Integration
- Idea to Market
- Source to Pay
- Network
- Strategic
- Operational
- Finance
- Product Costing
- Value Chain Analysis
- Plan to Produce
- Lead to Cash
- ...

SAP Product Footprint Management
Planned Features and Milestones (subject to change)

	GA (2021-Q3)	2021-Q4	2022
Data Acquisition	• Enable integration scenarios for S/4HANA (Material Movements) & Scoping of the extraction of relevant business activity and master data (Plants, Products, Suppliers) [Details CL	OP]	• Integration scenarios enhancements for (EHS Emissions, CO cost estimates +) • API for enhanced master data and business activity replication	
Emission Factors Mgmt.	• Import emission factors from lifecycle assessment data [Details]	• Integrate Supplier Emission Factors • Emission factor lifecycle management	• Integration scenarios enhancements in S/4HANA – Logistics and Finance
Footprint Calculation	• Maintain climate change footprint calculation template for purchased products [Details] • Association of products using emission factors from lifecycle assessment data [Details] • Enable on demand execution and monitoring of product footprint calculation [Details] • Check data consistency and quality [Details]	• Calculation for manufactured products, considering scope 3 raw materials • Top-down allocation for production activities to manufactured products • Enhanced data quality management • Improved purchased products calculation (e.g. error handling, bootstrapping)	• Simulation Run / What if scenarios • Covering of Downstream Processes (like Use & End of Life Phase (Modelling on PFM or LCA providers)
Footprint Analytics		• Analyze product footprints to gain new insights (API based) • PFM Content Delivery in Enterprise SAC	• Holistic Analytics with SAP Sustainability Control Tower (Enhancements)
Footprint Integration	• S/4HANA: Search and discover footprints (Plant, Material) [Details CL	OP] • S/4HANA: Extend business processes with prod. footprints (Plant, Material) [Details CL	OP]	• Footprints (Plant, Material, Supplier) • First use case in Procurement • First use case in IBP	

Continuous delivery on product innovations

Embedding sustainability into your Supply Chain Planning with SAP Integrated Business Planning


SAP Product Footprint Management enables integration scenarios to collect business activity and master data from SAP business applications such as SAP S/4HANA as primary source for footprint calculation and further integrates the calculated footprints back into the relevant SAP S/4HANA end-to-end processes.

By providing this data-driven approach, SAP is enabling businesses to embed sustainability comprehensively and to gain actionable insights across the entire value chain, supporting the transition to low carbon business processes.

View Roadmap Explorer

Value Proposition: SAP's 3 Zeros Strategy for Sustainability

A blueprint to integrate sustainability data into business processes across all value chains to drive performance, new products & new markets
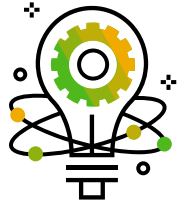
Complete the transition to a high-performance Sustainable Intelligent Enterprise by combining operational data mapping with holistic sustainability reporting
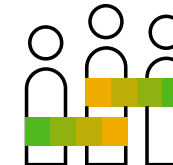
Holistic Steering and Reporting

Zero Emissions with
Climate Action
Generate cost savings by transitioning from "Low to No" carbon across your entire network.

Zero Waste with
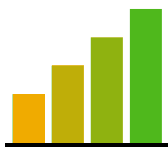### Circular Economy
Contribute to a zero-waste world by incorporating resilience and circularity into your supply chains.

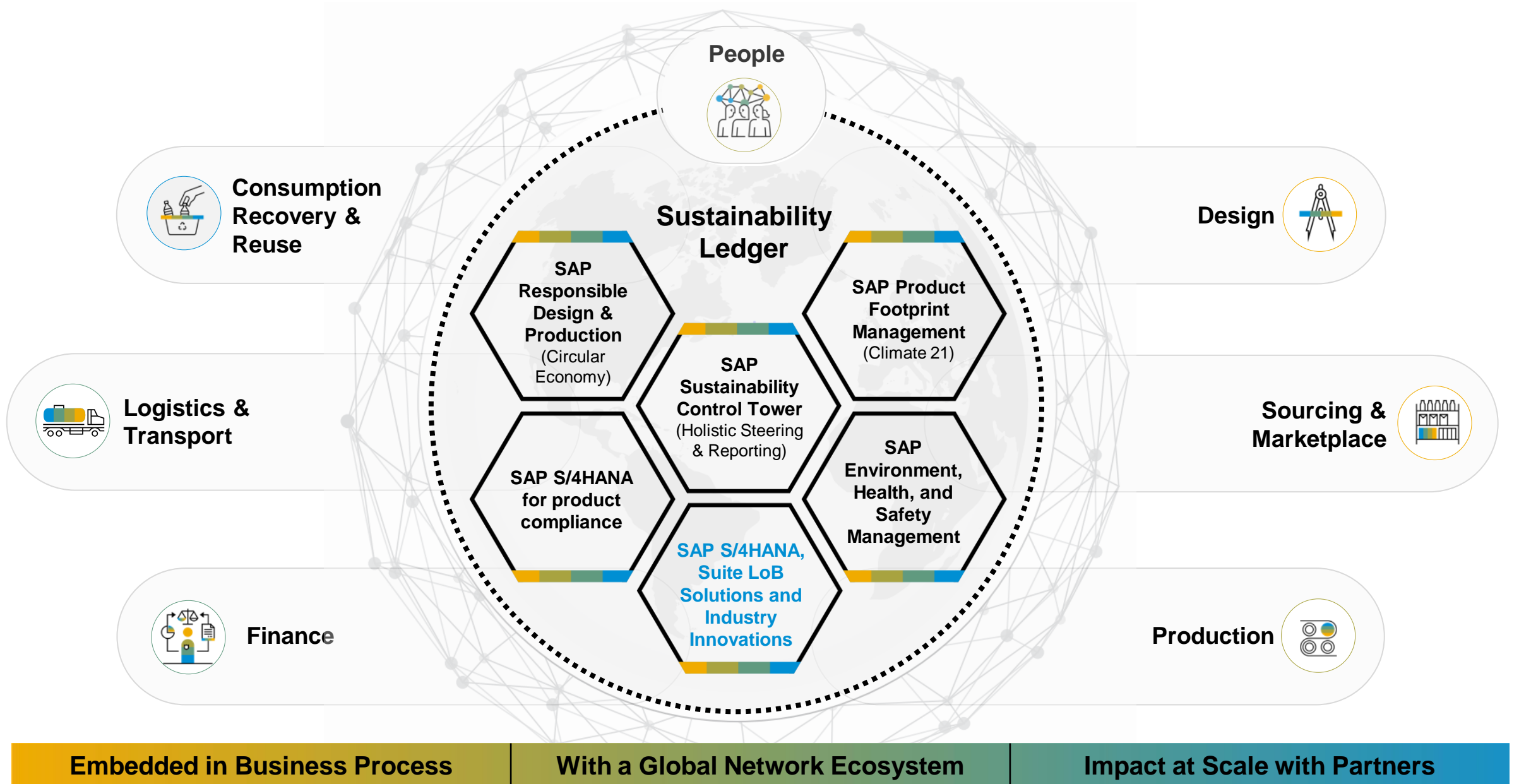Zero Inequality with
Social Responsibility
Ensure zero incidents, accidents and harm to communities, people and the environment.

Industry Innovation

Generate additional value by incorporating industry-specific solutions from across our Partner Ecosystem and Industry Cloud

Sustainability Management by SAP: Overview

People

Consumption Recovery & Reuse

Design

Sustainability Ledger

SAP Responsible Design & Production (Circular Economy)

SAP Product Footprint Management (Climate 21)

SAP Sustainability Control Tower (Holistic Steering & Reporting)

SAP S/4HANA for product compliance

SAP Environment, Health, and Safety Management

SAP S/4HANA, Suite LoB Solutions and Industry Innovations

Logistics & Transport

Sourcing & Marketplace

Finance

Production

Embedded in Business Process | **With a Global Network Ecosystem** | **Impact at Scale with Partners**

Our Approach: Embed Sustainability into your Business DNA

Place sustainability front and center. Embed sustainability insights into end-to-end processes extended throughout your business network. This will ensure efficiency gains, social responsibility and compliance, while mitigating risk.

Create sustainable products, services & business models
Gain a holistic insight into data, processes, regulations and industry specific drivers and differentiators across value chains to create new products, services and solutions that reach additional customers, markets and segments

Make processes sustainable & gain efficiencies
End-to-end solution portfolio, embedded within your key processes, to address circular business models, assess and reduce carbon footprint, reduce waste, drive social responsibility across the entire value chain

Meet global obligations
Deep transparency into financial & non-financial data will address regulations proactively and ensure full compliance along with integrated, auditable, and real-time reporting

Sustainable value creation

Business transformation

Useful Links

SAP Purpose and Sustainability
SAP Solutions for Sustainability
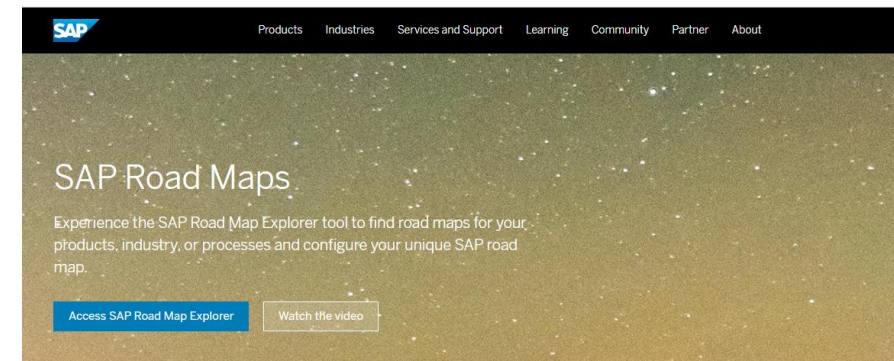

Product Perspective Sessions
SAP Sustainability Summit | Home

Business Success with Climate Action
Helping Business Thrive in a Circular Economy
SAP Environment, Health, and Safety for
Operational Sustainability
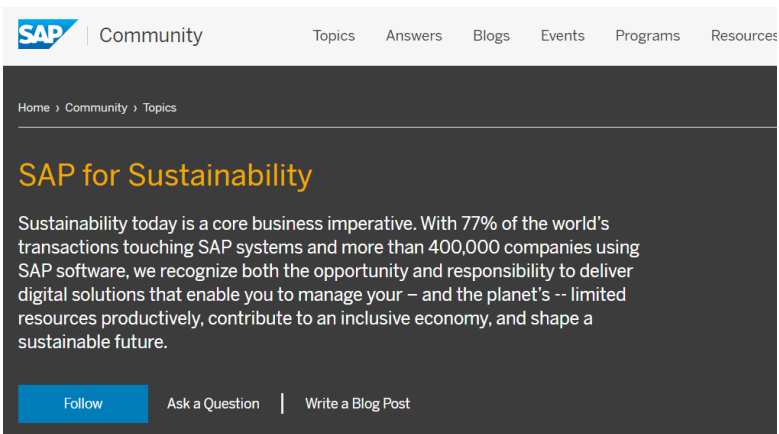
SAP Community | SAP for Sustainability

SDG Ambition

SAP Road Map Explorer
SAP Help Portal

Thank You

Q&A