SAP Product Footprint Management
Product Overview & Demo

Nico Wottke | Senior Product Manager | SAP S/4HANA Sustainability
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THE BEST RUN SAP

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Agenda

- Introduction
- Product Overview
- Product Demo
- Planned Features and Milestones
- Additional Information
- Q&A

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INTRODUCTION

Sustainability is the new frontier of digital transformation

Time to act is NOW

Investors, regulators, and consumers demand fairly made products and services with smaller planetary impact. Reducing emissions, waste, social injustice across the world requires an urgent, full lifecycle approach across the private/public sectors

Investors:

$90T

to be invested in climate-smart infrastructure by 2030
Source

Shareholders:

34%

rise in global sustainable investment during period 2016–18
Source

Regulators:

60+

carbon pricing initiatives in force or scheduled for implementation.
Source

Employees:

#1

concern amongst Millennial and Gen Z jobseekers
Source

Consumers:

5.6x

faster growth of sustainable consumer packaged goods
Source

CEOs:

48%

of CEOs implement sustainability in their business operations
Source

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SAP as an Enabler:
Creating Sustainable Business Value

Make sustainability core to your business. Embed sustainability insights into end to end industry specific business processes extended into your business network to drive growth, efficiencies, social responsibility, & response to compliance and regulatory risks.

Sustainable value creation

Create sustainable products, services, and business models

Holistic view into data, processes, and industry specific drivers, differentiators, regulations and best practices across value chains to create new products, services and solutions and reaching new customers, markets and segments.

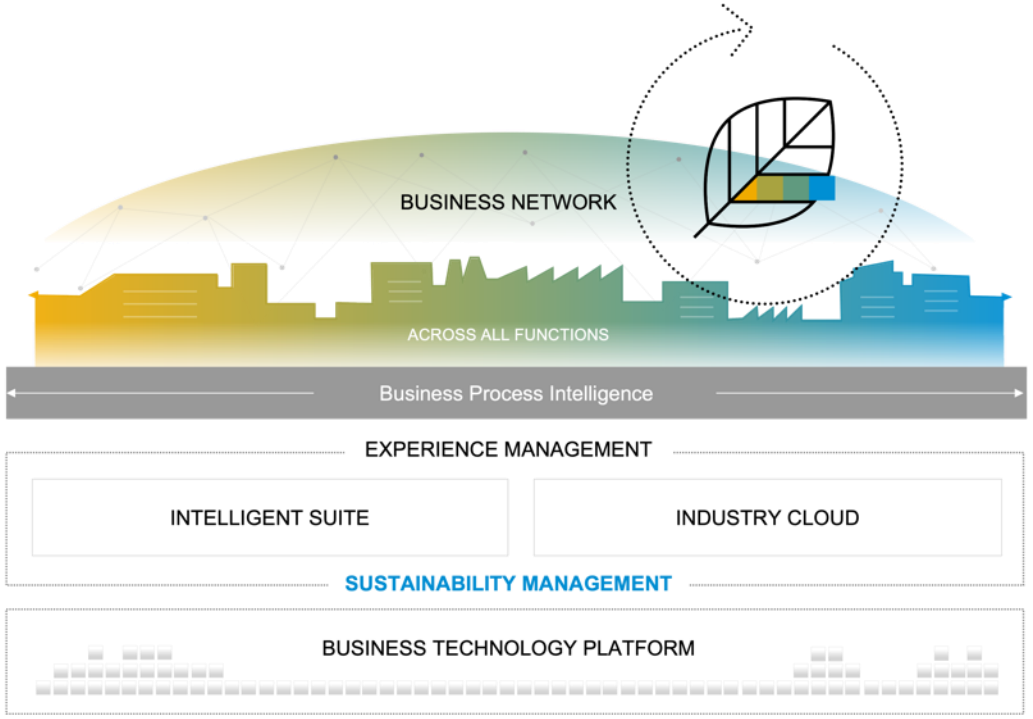
De-carbonize, eliminate waste, and drive social responsibility across supply chains

End to end solution portfolio to asses and reduce carbon footprint, address circular business models and reduce waste, and drive social responsibility across value chains by embedding sustainability into core business processes.

Comply with global and local regulations

Deep transparency into financial & non financial data which helps address regulations, taxation, sanctions proactively and ensures integrated, auditable, and real-time reporting.

Business transformation



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Our Value Proposition:
Chasing Zero 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 with **Sustainability Performance Management**

Zero Emissions with
Climate Action

Generate cost savings by transitioning from “Low to No” carbon across your entire network.

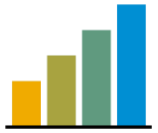
Zero Waste with
Circular Economy

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

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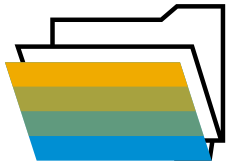
The SAP Sustainability Portfolio – Chasing Zero

Our solutions enable for a future of **zero** emissions, **zero** waste, and **zero** inequality



HOLISTIC STEERING AND REPORTING

- **SAP Sustainability Control Tower ***
- **SAP Ariba - EcoVadis Supplier Sustainability Rating**
- **SAP Environment Management** (EHS)
- **SAP Health and Safety Management** (EHS)
- **SAP Incident Management** (EHS)
- SAP Profitability and Performance Management
- Service Offering: Supply Chain Due Diligence

ZERO EMISSIONS with Climate Action

- **SAP Environment Management (EHS)**
- **SAP Product Footprint Management**
- **SAP E-Mobility**
- **SAP Landscape Management Cloud**
- SAP Transportation Management
- SAP Concur
- SAP Treasury and Risk Management

ZERO WASTE with Circular Economy

- **SAP Responsible Design & Production ***
- **SAP S/4HANA for Product Compliance**
- **SAP Environment Management (EHS Waste Mgmt)**
- **SAP Rural Sourcing Management**
- **SAP Logistics Business Network Material Traceability**
- Product Lifecycle Management
- Integrated Business Planning

ZERO INEQUALITY Social Responsibility

- **SAP Health and Safety Management (EHS)**
- **SAP Occupational Health (EHS)**
- **SAP Incident Management (EHS)**
- **SAP Business Integrity Screening**
- **SAP S/4HANA for Product Compliance**
- SAP Concur (Duty of Care)
- SAP Ariba (Supplier Diversity)
- SAP Fieldglass (Contingent Workforce Diversity)
- SAP SuccessFactors
- Qualtrics Employee XM

INDUSTRY INNOVATION

- **SAP Traders & Schedulers Workbench**
- **SAP Cloud for Energy**
- **SAP Digital Vehicle Hub (SAP AIN)**
- **SAP Direct Distribution**
- **SAP Multichannel Order Management**
- **SAP S/4HANA for Waste & Recycling**
- **SAP Returnable Packaging Management**
- **SAP Intelligent Returns Management ***
- **SAP Outcome-based Business Insights ***
- SAP Replenishment Planning
- **SAP Work Clearance Management (EHS)**
- **SAP Management of Change (EHS)**

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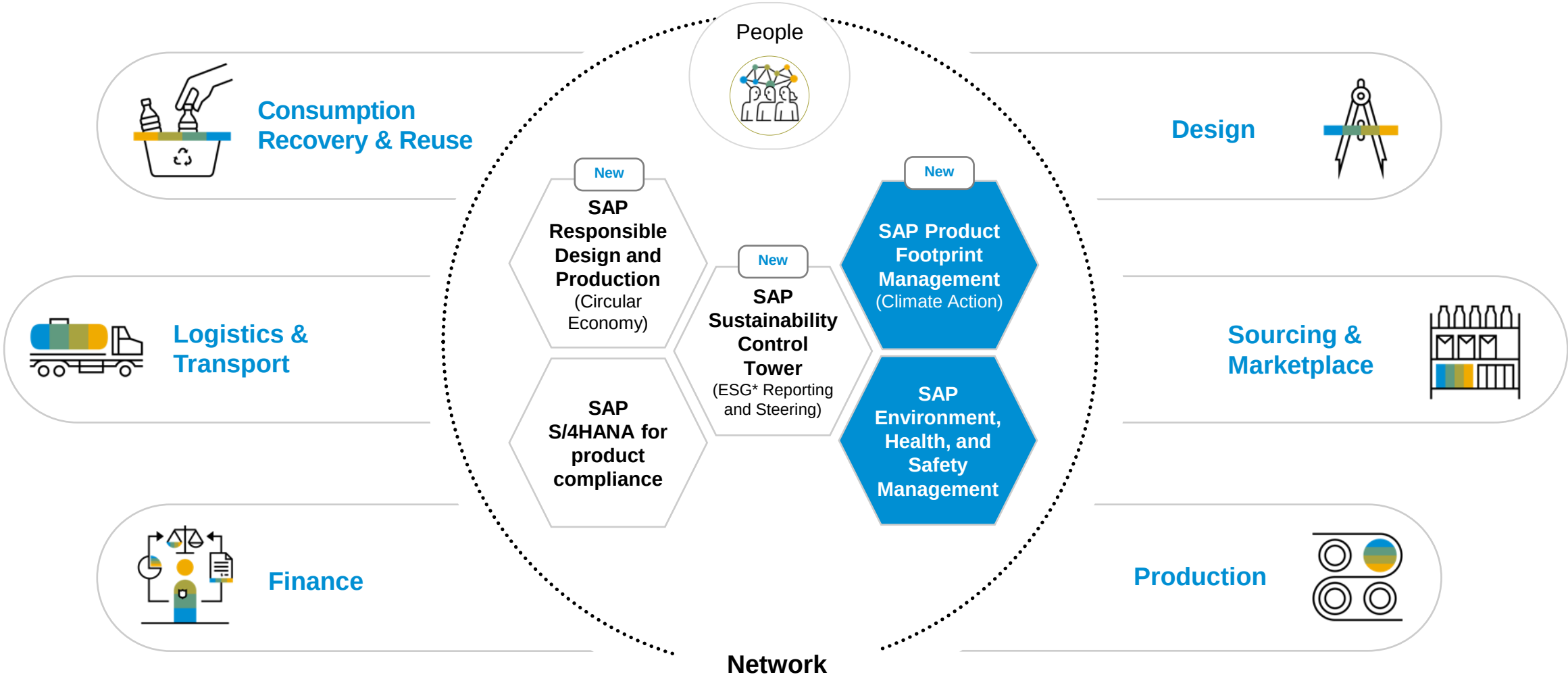
Legend: Blue – Dedicated Sustainability Solutions Black – Solutions supporting sustainability in specific aspects * Planned

SAP Sustainability Management Cloud



*Environmental, Social and corproate Governace

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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"

** GHG Inventories is only one use case in SAP S/4HANA EHS*

Zero Emissions with
Climate Action

PRODUCT FOOTPRINT

GHG Protocol
Scope 1,2,3

ISO 14067

SAP Product Footprint Management

"Calculate product footprints at scale considering the entire product lifecycle for disclosure and internal product and process optimization"

Focus: manufacturing / product-centric organizations

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Zero Emissions with Climate Action

Challenges and solutions to calculate product footprints

SAP Product Footprint Management

View of the **entire product lifecycle**

No 'IFRS' or 'US GAAP' like standard

No value like a Price **"50 € per EA"**

High manual effort from experts needed

Data

Calculation standards

Interpreting Results

Adoption efforts

Vast REUSE of Business data & **CURATE it with Sustainability Content**

Governance and flexibility in the calculation methods

Scoring and Analytics to easily understand product footprint information

Focus on ease of use with **prescriptive & pre-defined approach**

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PRODUCT OVERVIEW

The Ask of our Customers…

How can we calculate product footprints at scale and at lowest implementation efforts?

Can we use/ reuse the business systems we already have?

Product Footprint Management Powered by

SAP® Business Technology Platform

Live connected to

SAP S/4HANA®

SAP S/4HANA® Cloud

Product Capabilities

1. Data Acquisition
2. Emission Factors Management
3. Footprint Calculation
4. Footprint Analytics
5. Footprint Integration

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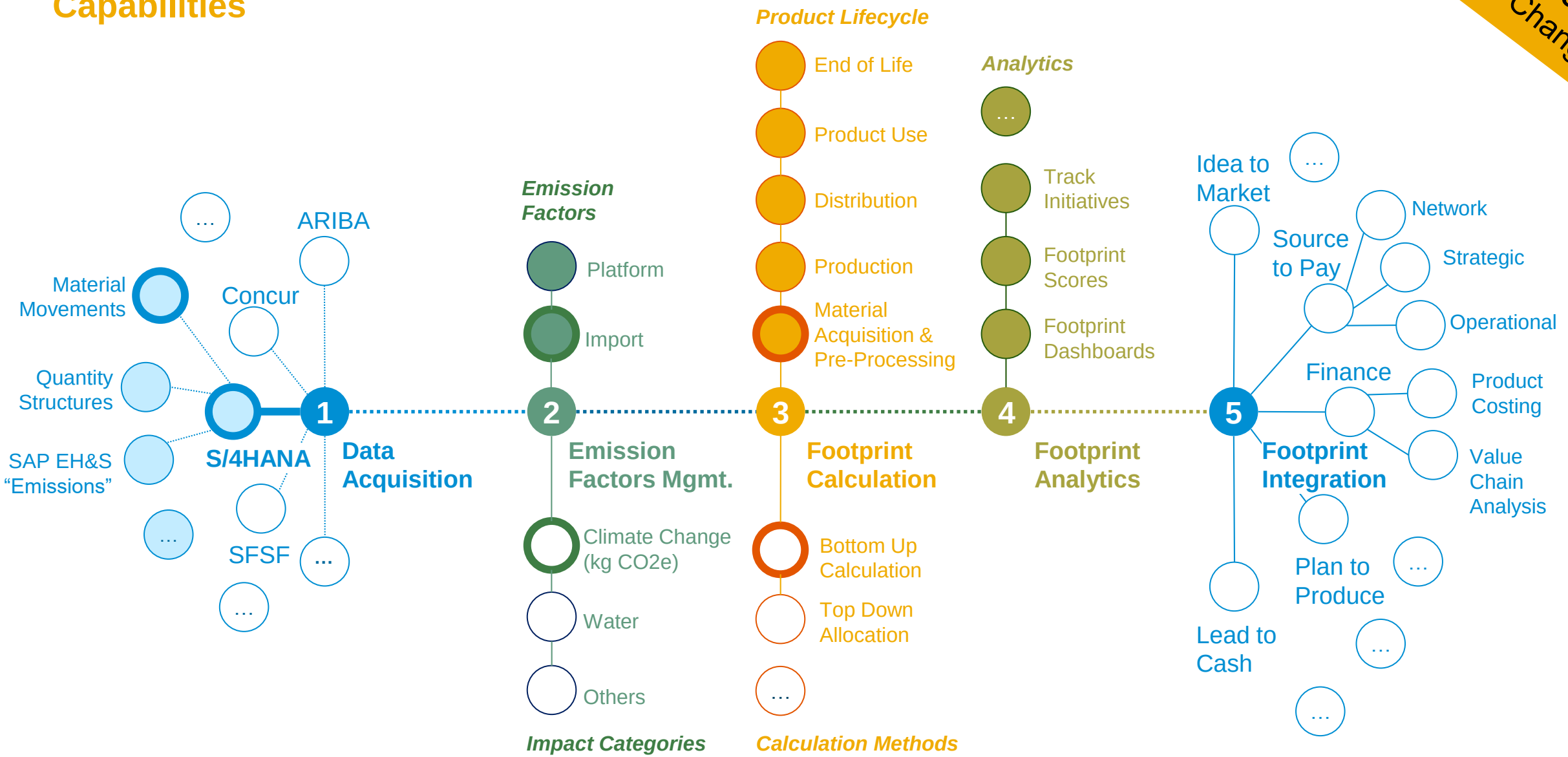
SAP Product Footprint Management
Capabilities



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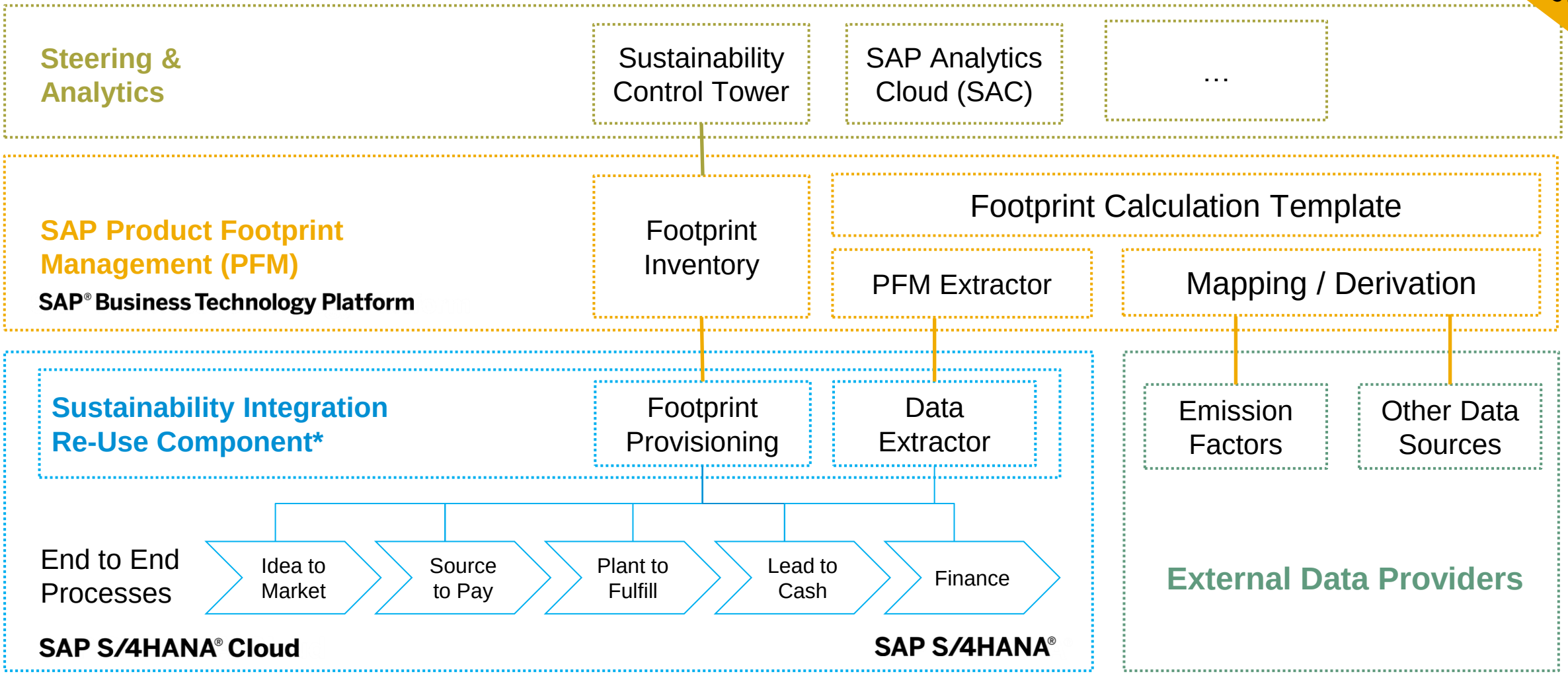
SAP Product Footprint Management
Business Architecture

Labs Preview
Subject to Change



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* Re-use component included in SAP S/4HANA (INTEGRATION_SUS_PF)

PRODUCT DEMO

Demo Story

MAGRATHEA CORP.

We bake cookies for the world

---

*“We want to have insights about the product footprint of our **raw materials** for the **cookie production** so that we can provide guidance for optimization”*

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Demo Story

1. Data Acquisition
2. Emission Factors Mgmt.
3. Footprint Calculation
4. Footprint Analytics
5. Footprint Integration

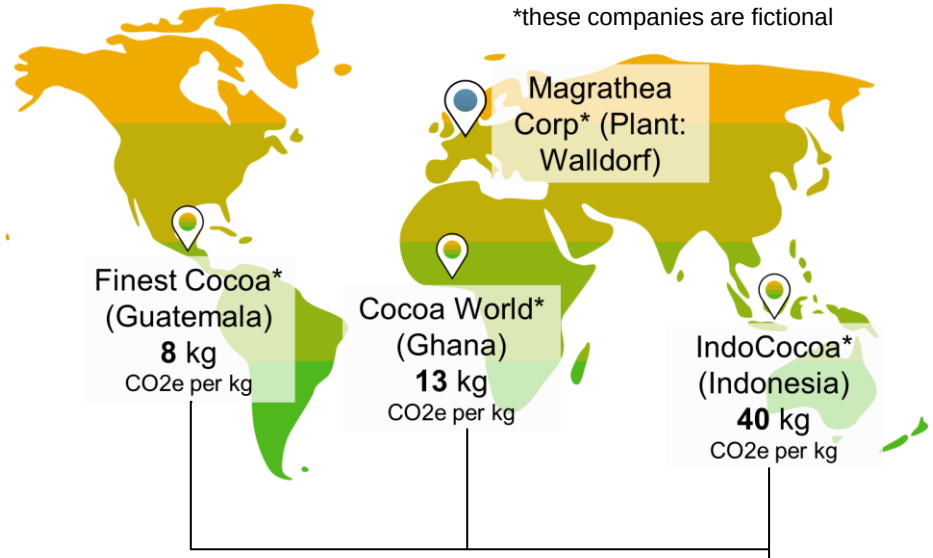
Product Footprint Management

Ben
Sustainability Business Support Specialist

SAP S/4 HANA

Ina
Inventory Analyst

*these companies are fictional



PRODUCT GROUPS
Cocoa
Flour
Sugar
Oil & Fats
Milk

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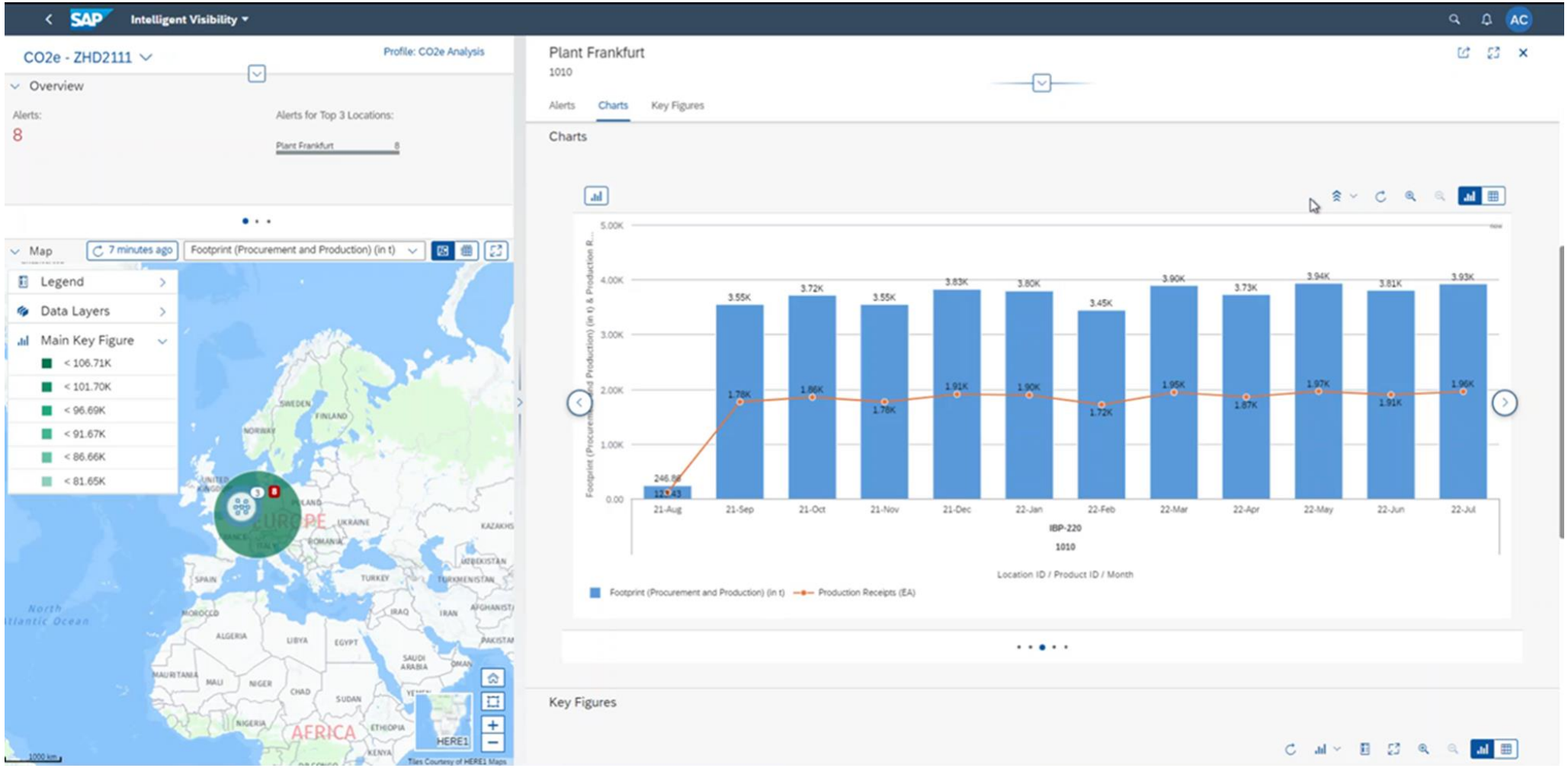
SAP Product Footprint Management

Integration into SAP Integrated Business Planning (IBP)



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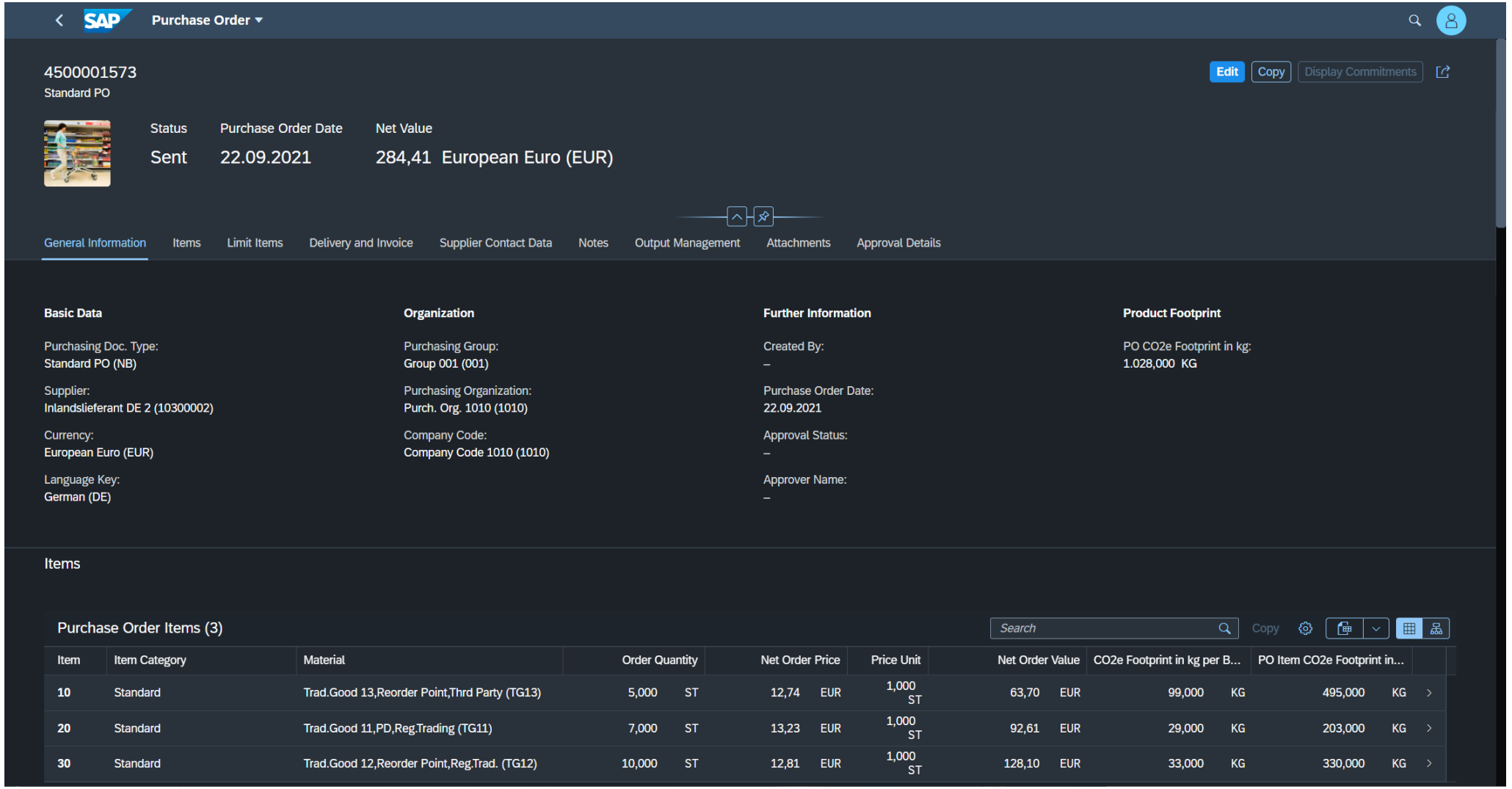
Labs Preview
Subject to Change

SAP Product Footprint Management

Integration into Purchase Order



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SAP Product Footprint Management
Key Differentiators

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"

- Vast **reuse of existing business data and structures** from S/4HANA
  (first deliveries focus product, business partner, material flow, cost estimates) – Primary Data
- Vast **reuse of business logic**: Inventory Management, Costing Structures
- **Monthly calculation** of all products in the system handling a high amount of data
- Provide **inbuild integration** back to S/4HANA systems
- **Emission factor management** to help customers to upload Sustainability Content

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PLANNED FEATURES & MILESTONES

SAP Product Footprint Management

Product Capabilities – GA Focus (21-Q3) & Detail Links (Road Map Explorer)

1

Data Acquisition

- Enable integration scenarios to provision business activity and master data for SAP Product Footprint Management & Specify the range of the extraction of relevant business activity and master data

  Details (Cloud)

  Details (On Prem)

2

Emission Factors Mgmt.

- Import emission factors from Lifecycle Assessment data

  Details

3

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 to verify the correctness of calculated product footprints | Details

4

Footprint Analytics

5

Footprint Integration

- Search and discover product footprints

  Details (Cloud)

  Details (On Prem)
- Extend business processes with product footprint information for climate change

  Details (Cloud)

  Details (On Prem)

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SAP Product Footprint Management

Planned Features and Milestones (subject to change)

Continuous feature delivery, timeline represents prioritized backlog

Published roadmaps in SAP Road Maps Explorer

	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]	• Enhancements for Integration scenarios (EHS Emissions, CO cost estimates +) • API for enhanced master data and business activity replication	• Enhancements for Integration scenarios in S/4HANA – Logistics and Finance (Transport and Delivery) • Data acquisition from IES Application – Ariba, Concur… • Enhanced Scoping according new business scenarios
Emission Factors Mgmt.	• Import emission factors from lifecycle assessment data [Details]	• Integrate Supplier Emission Factors • Emission factor lifecycle management	• Enhance emission factor lifecycle management with direct access for content providers • Integration to LCA providers
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)	• Covering of Transport processes (inbound & outbound) with pre-defined emission factors • Simulation Run / What if scenarios • Bottom-up calculation for production activities • Emission surcharges management according to Product Costing settings • 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	• Embedded Analytics for operational footprint management • Holistic Analytics with SAP Sustainability Control Tower (Enhancements) • Target Setting / Achievement Management
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	• First use case in Finance – Product Costing • First use case with IES applications (Ariba, Concur…)

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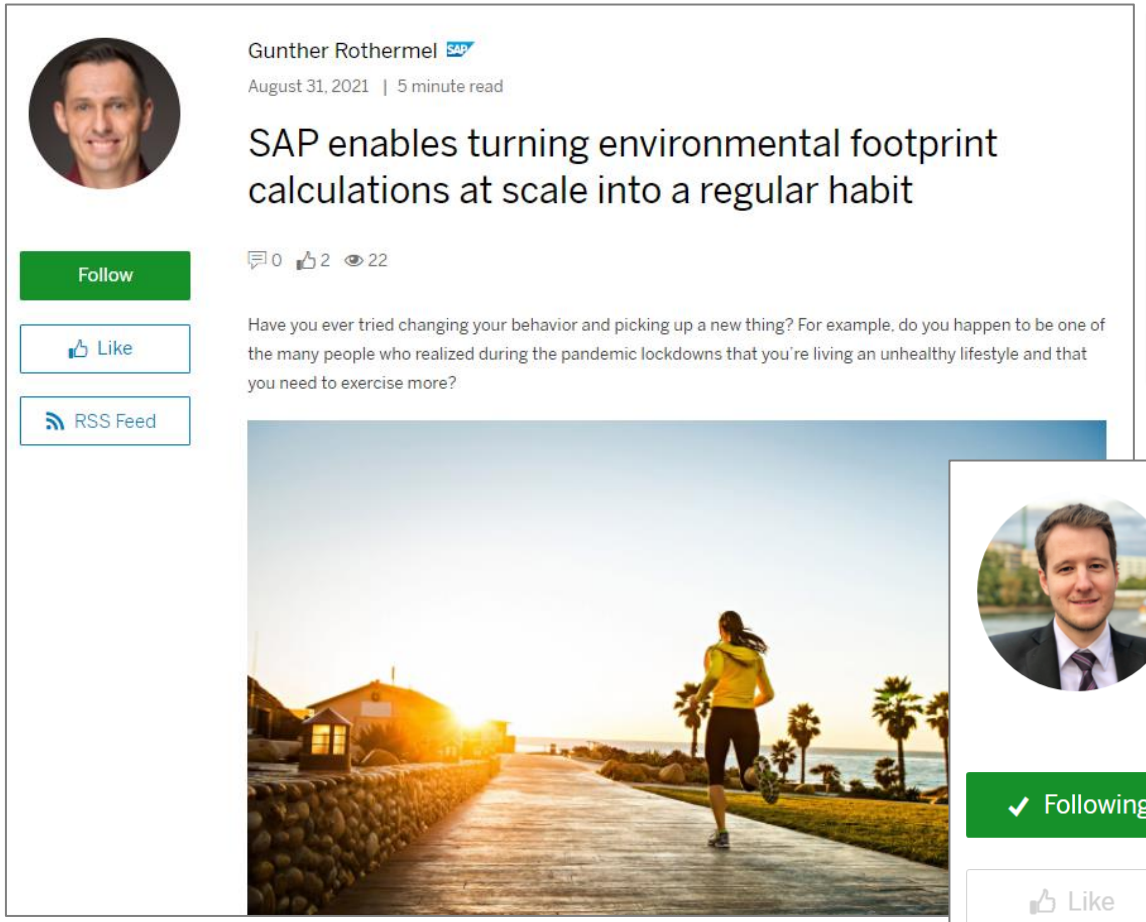
ADDITIONAL INFORMATION

SAP Product Footprint Management

External Facing Assets & Information



Gunther Rothermel

August 31, 2021 | 5 minute read

SAP enables turning environmental footprint calculations at scale into a regular habit

0 2 22

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Like

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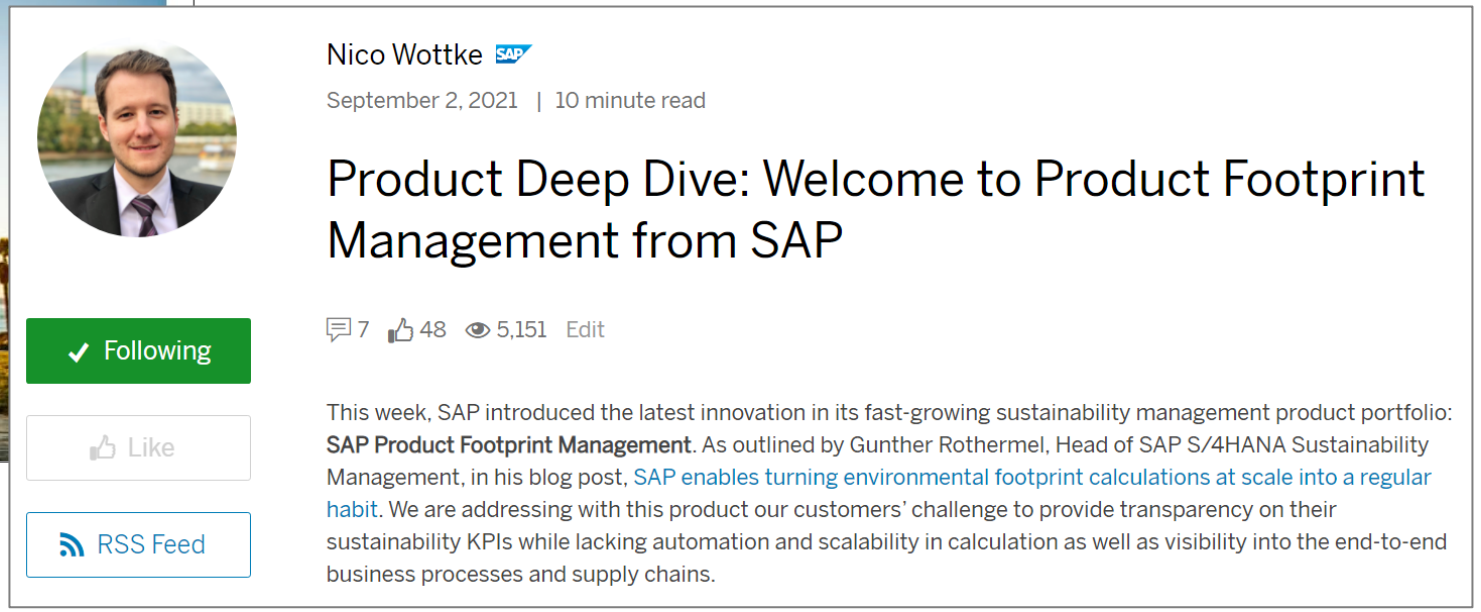
Have you ever tried changing your behavior and picking up a new thing? For example, do you happen to be one of the many people who realized during the pandemic lockdowns that you're living an unhealthy lifestyle and that you need to exercise more?

- [Learn more about SAP Product Footprint Management]
- SAP Community Call on Aug 30:
  Introducing SAP Product Footprint Management
  (Recording | Presentation)



Nico Wottke

September 2, 2021 | 10 minute read

Product Deep Dive: Welcome to Product Footprint Management from SAP

7 48 5,151 Edit

Following

Like

RSS Feed

This week, SAP introduced the latest innovation in its fast-growing sustainability management product portfolio: **SAP Product Footprint Management**. As outlined by Gunther Rothermel, Head of SAP S/4HANA Sustainability Management, in his blog post, SAP enables turning environmental footprint calculations at scale into a regular habit. We are addressing with this product our customers' challenge to provide transparency on their sustainability KPIs while lacking automation and scalability in calculation as well as visibility into the end-to-end business processes and supply chains.

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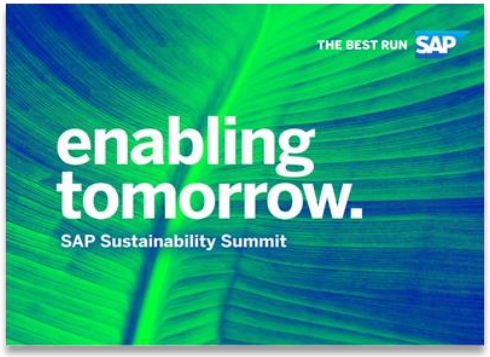
SAP Product Footprint Management

External Facing Assets & Information



SAP Sustainability Summit

Event Page with Recordings

Registration (free of charge) needed to access recordings

openSAP

openSAP course - Business Success with Climate Action

SAP Community

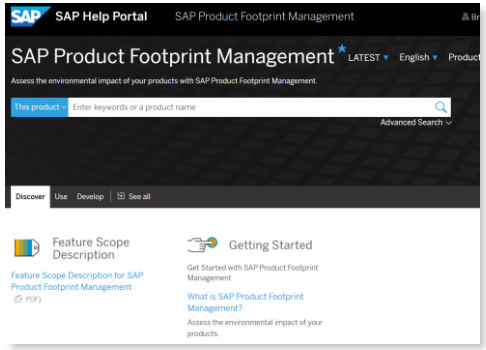
SAP Community | SAP for Sustainability
SAP Community | Climate Action

SAP.com

SAP Solutions for Sustainability
SAP Product Footprint Management

SAP Road Map Explorer

SAP Product Footprint Management Road Map



SAP Help Portal

SAP Product Footprint Management - SAP Help Portal

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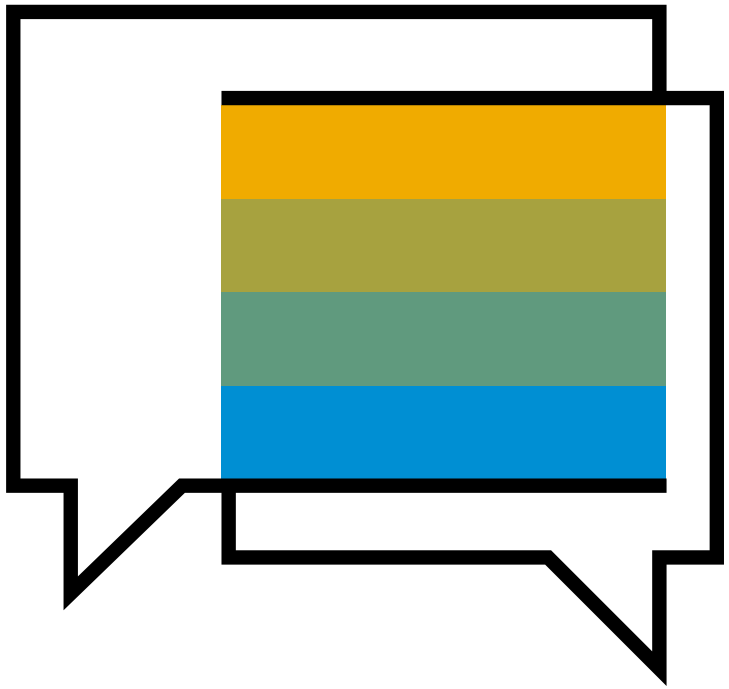
Q & A



Thank you.

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