SAP Product Footprint Management
Product Overview

Dimitar Angelov | SAP Sustainability Engineering
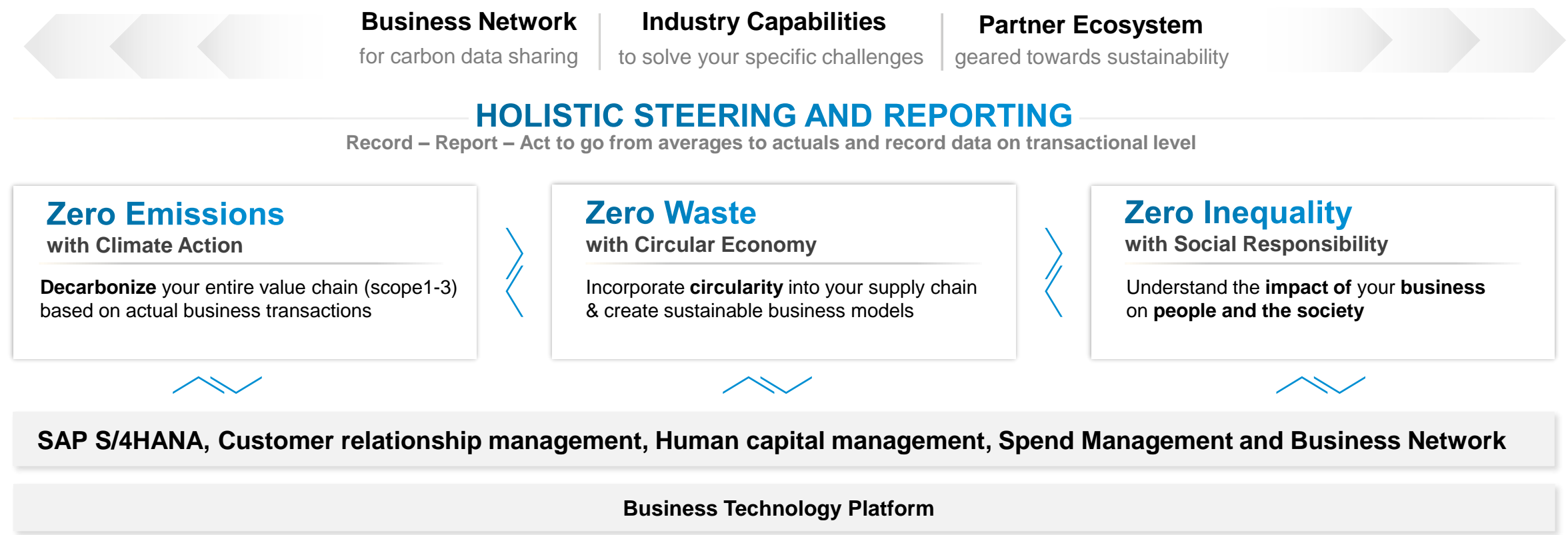February 2023

THE BEST RUN **SAP**

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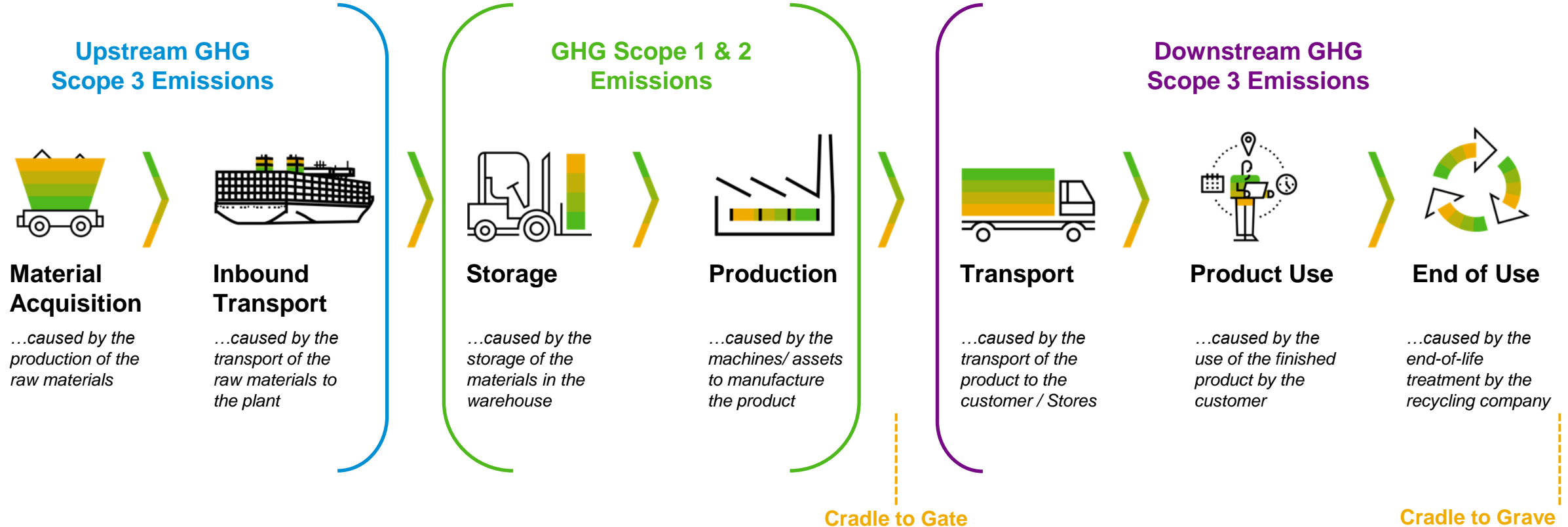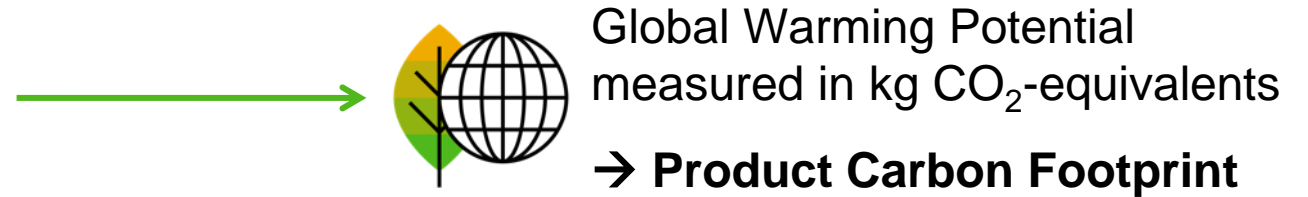
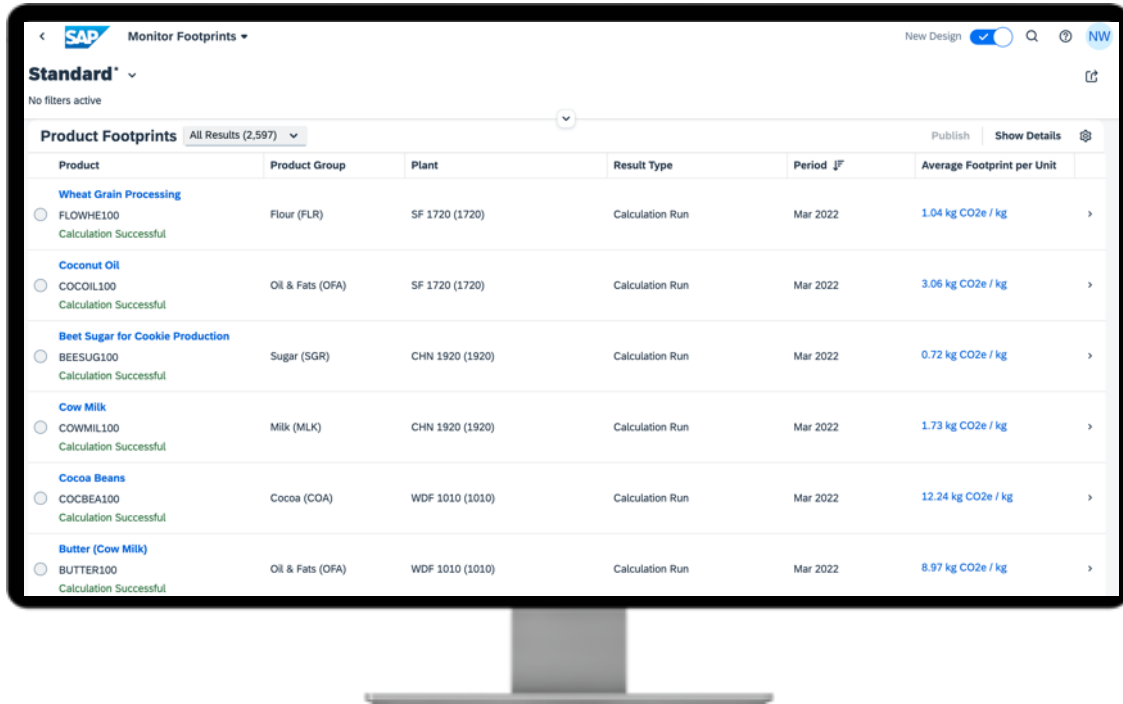# Our Offering: SAP Cloud for Sustainable Enterprises

Business Network
for carbon data sharing

Industry Capabilities
to solve your specific challenges

Partner Ecosystem
geared towards sustainability

HOLISTIC STEERING AND REPORTING

Record – Report – Act to go from averages to actuals and record data on transactional level

Zero Emissions
with Climate Action

Decarbonize your entire value chain (scope1-3) based on actual business transactions

Zero Waste
with Circular Economy

Incorporate **circularity** into your supply chain & create sustainable business models

Zero Inequality
with Social Responsibility

Understand the **impact of** your **business** on **people and the society**

SAP S/4HANA, Customer relationship management, Human capital management, Spend Management and Business Network

Business Technology Platform

Product Carbon Footprint
Introduction

What is the **environmental impact** of a **product** considering the entire **product lifecycle**?

Global Warming Potential measured in kg CO_2-equivalents

→ **Product Carbon Footprint**

Upstream GHG Scope 3 Emissions

GHG Scope 1 & 2 Emissions

Downstream GHG Scope 3 Emissions

Material Acquisition

...caused by the production of the raw materials

Inbound Transport

...caused by the transport of the raw materials to the plant

Storage

...caused by the storage of the materials in the warehouse

Production

...caused by the machines/ assets to manufacture the product

Transport

...caused by the transport of the product to the customer / Stores

Product Use

...caused by the use of the finished product by the customer

End of Use

...caused by the end-of-life treatment by the recycling company

Cradle to Gate

Cradle to Grave

SAP Product Footprint Management
Overview

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

According to
GHG Protocol – Product Carbon Accounting
ISO 14067

Built on
SAP® Business Technology Platform

Live connected to
SAP S/4HANA® Cloud
SAP S/4HANA®

SAP S/4HANA 2021 or later, APIs are available for importing data from older S/4HANA versions & SAP ECC
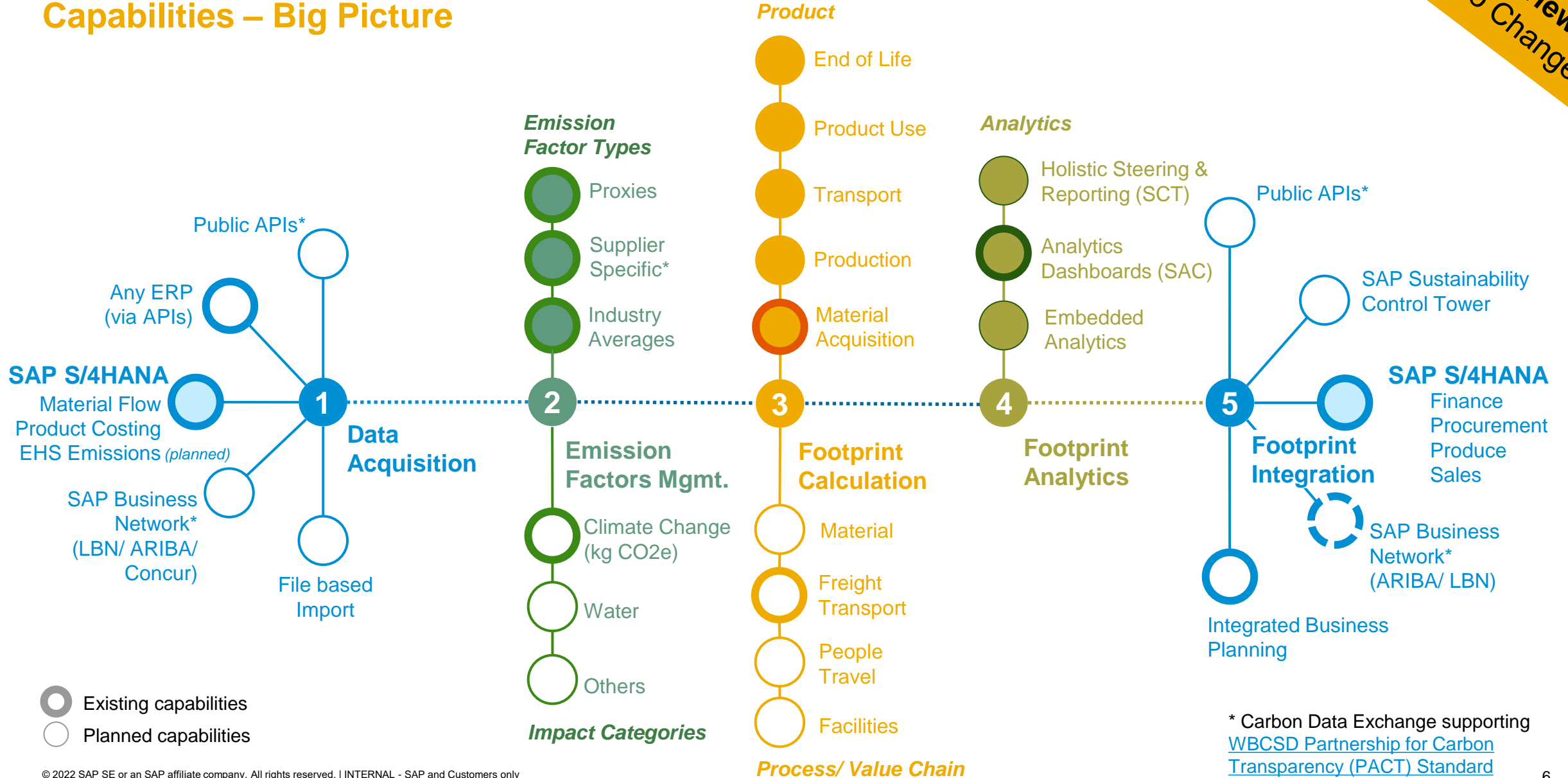
SAP Product Footprint Management
Capabilities – Big Picture

1 — Data Acquisition

- Public APIs*
- Any ERP (via APIs)
- **SAP S/4HANA**
  Material Flow
  Product Costing
  EHS Emissions *(planned)*
- SAP Business Network* (LBN/ ARIBA/ Concur)
- File based Import

2 — Emission Factors Mgmt.

Emission Factor Types
- Proxies
- Supplier Specific*
- Industry Averages

Impact Categories
- Climate Change (kg CO2e)
- Water
- Others

3 — Footprint Calculation

Product
- End of Life
- Product Use
- Transport
- Production
- Material Acquisition

Process/ Value Chain
- Material
- Freight Transport
- People Travel
- Facilities

4 — Footprint Analytics

Analytics
- Holistic Steering & Reporting (SCT)
- Analytics Dashboards (SAC)
- Embedded Analytics

5 — Footprint Integration

- Public APIs*
- SAP Sustainability Control Tower
- **SAP S/4HANA** Finance Procurement Produce Sales
- SAP Business Network* (ARIBA/ LBN)
- Integrated Business Planning

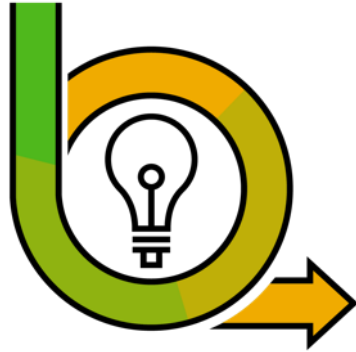**Legend**
- Existing capabilities
- Planned capabilities

* Carbon Data Exchange supporting WBCSD Partnership for Carbon Transparency (PACT) Standard

SAP Product Footprint Management
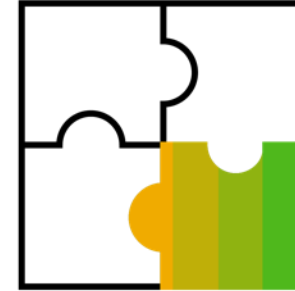## Key Differentiators

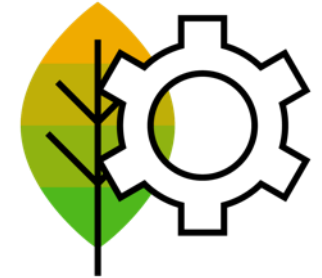Vast **reuse of existing business data and structures** from SAP S/4HANA – Primary Data

Vast **reuse of business logic**: Inventory Management, Costing Structures

Monthly calculation of all products in the system handling a high amount of data

Provide **inbuilt integration** back to SAP S/4HANA systems

Emission factor management to help customers to upload Sustainability Content

Thank you.

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ADDITIONAL INFORMATION

SAP Product Footprint Management
Useful Blog Posts from SAP Community

GENERAL INTRODUCTION

SAP enables turning environmental footprint calculations at scale into a regular habit
(Gunther Rothermel)

Welcome to Product Footprint Management from SAP
(Nico Wottke)

PRODUCT UPDATES

Q1-22 Updates & Highlights
(Nico Wottke)

Q2-22 Updates & Highlights
(Nico Wottke)

Q3-22 Updates & Highlights
(Nico Wottke)

PRODUCT DEEP DIVES

Illustrating SAP Product Footprint Management calculations with a simple, everyday example
(Nisheeth Agarwal)

Emission Factors Management in SAP Product Footprint Management
(Nico Wottke)

Extending business processes with product footprints using the Key User Extensibility in SAP S/4HANA
(Christoph Zeh)

SAP Product Footprint Management: New Experience with Mappings
(Swati Nair)

Calculating Transport Footprints with SAP Product Footprint Management
(Nico Wottke)