Sustainable Supply Chain Framework
*** Overview ***

October 2025

Microsoft Co-Pilot's Perspective on this topic

Agenda

Sustainability - what's in a name?

Vision & Mission

Digital Supply Chains

Framework Overview

Use Case Library

Sustainability Reference Architecture

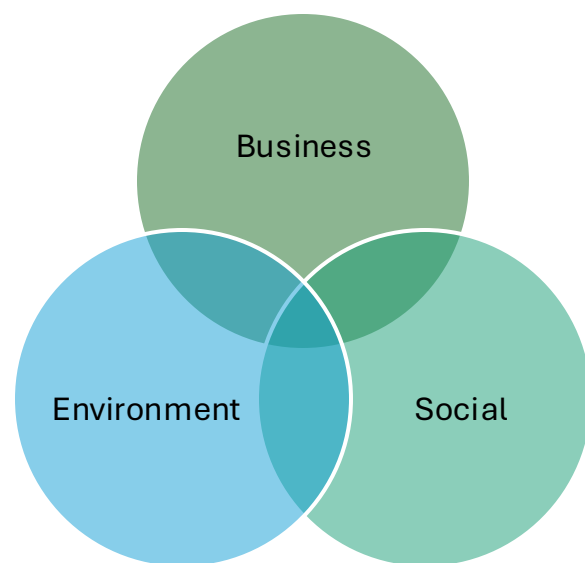Solution Building Block Repository

Solution Development Copilot

Digital Sustainability Playbook

A Brief History of Time

Sustainability - What's in a name?

- The term is not standardized. People and organizations have their own definition.

- Our definition is based on a couple of existing frameworks.

Sustainability in the

Sustainable Supply Chain Framework (SSCF)

SUSTAINABLE DEVELOPMENT GOALS

Triple Bottom Line

ESG
ENVIRONMENT SOCIAL GOVERNANCE

Massachusetts
Institute of
Technology
Innovation Network

Vision & Mission

Vision

It is 2030. The people involved in the development of sustainable supply chain solutions are supported by Copilots throughout the SDLC.

Mission

Accelerating the development of sustainable supply chain solutions and improving their quality through AI, standards and reference models.

Digital Supply Chains
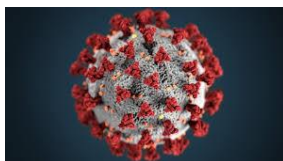
Sustainable Supply Chains

Business Value

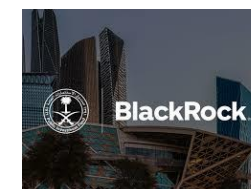**Optimization & Resilience**

Environment & Social Impact

Drivers

Pandemics	Interruptions	Wars	Regulations	Finance	Consumers	Employees

Digital Technology

IDTA | Digital Twin | Digital Product Passport | Data Space | INDUSTRIE4.0 / Catena-X Automotive Network

Framework Overview
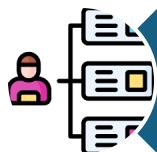
| Use Case Library | Generic sustainability use cases descriptions |

| Sustainability Reference Architecture | Solution blueprints for sustainability use cases |

| Solution Building Block Repository | Links to solution components for sustainability use cases |

| Solution Development Copilot | Improve speed and quality for solution development |

| Digital Sustainability Playbook | Guideline on implementing the framework |

Use Case Library

- S2CRA
  - Industries
    - Automotive
      - 1 - Use Case Blueprint
      - 2 - Enterprise Blueprint
      - 3 - Value Chain Blueprint
      - 9 - Model Company
    - Cross-Industry
    - Energy Utilities
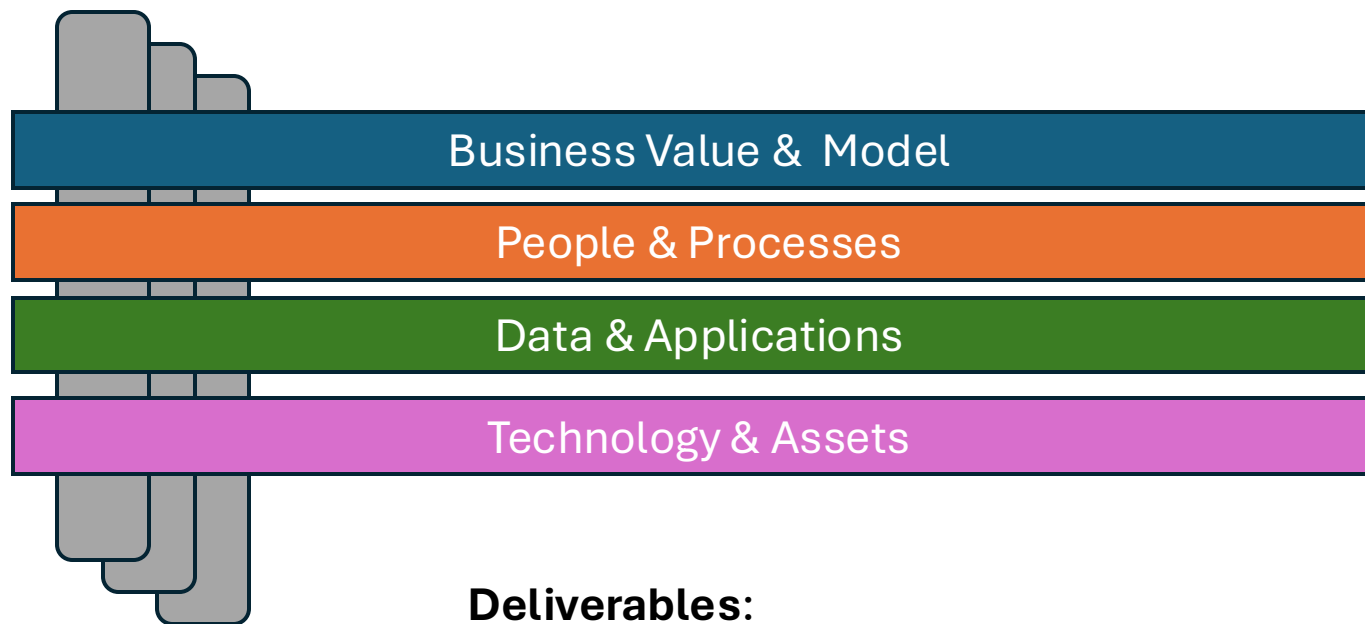   - Process Manufacturing
  - Reference Models
    - AAS
    - APQC
    - CSRD
    - OPC UA
  - S2CRA Meta Model

Sustainability Reference Architecture

Business Value & Model
People & Processes
Data & Applications
Technology & Assets

Use Cases

Existing Reference Models
- RAMI 4.0
- GRI
- SCOR
- Business Motivation Model
- APQC
- Asset Administration Shell
- Gaia-X
- SAP Reference Architecture
- ....

Deliverables:
- Use Case Blueprints
- Industry Reference Architectures
- Supply Chain Reference Architectures

Solution Building Block Repository

A Catalog of software products that implement Reference Architecture components

.... and many more, as provided by the vendors

Solution Development Copilot
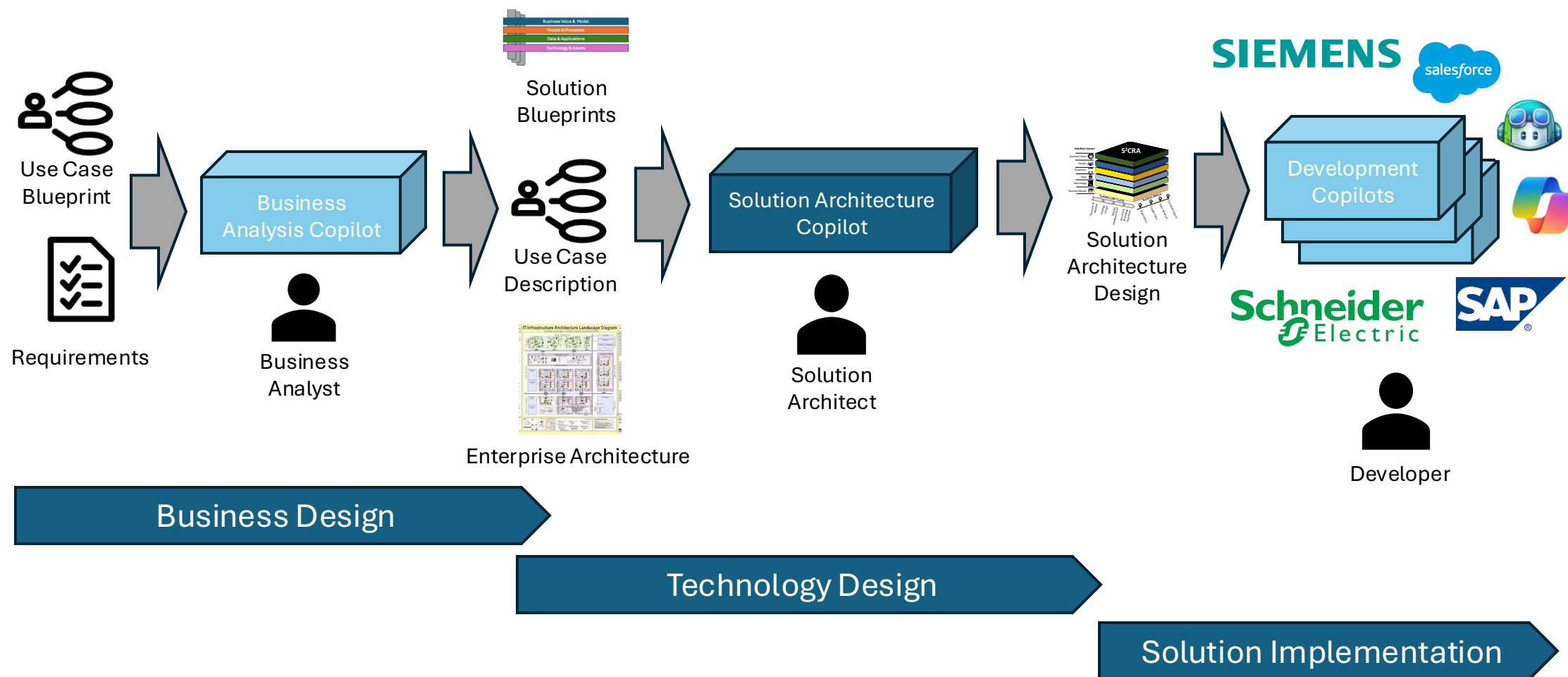
Digital Sustainability Playbook
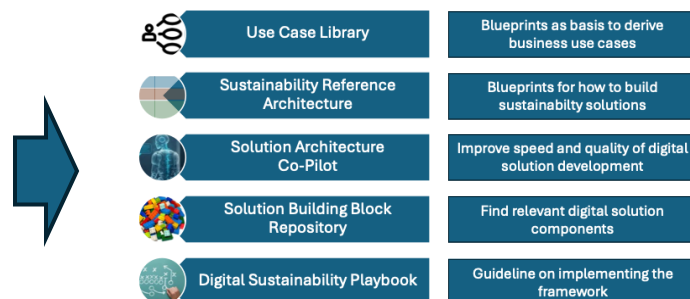
Table of Contents

A Brief History of Time

Sustainable Supply Chains
and Data Spaces
Whitepaper

Hannover Fair

Sustainable Supply Chain
Working Group

Sustainable Supply Chain Framework

Hannover Fair 2025

Digital Sustainability Group