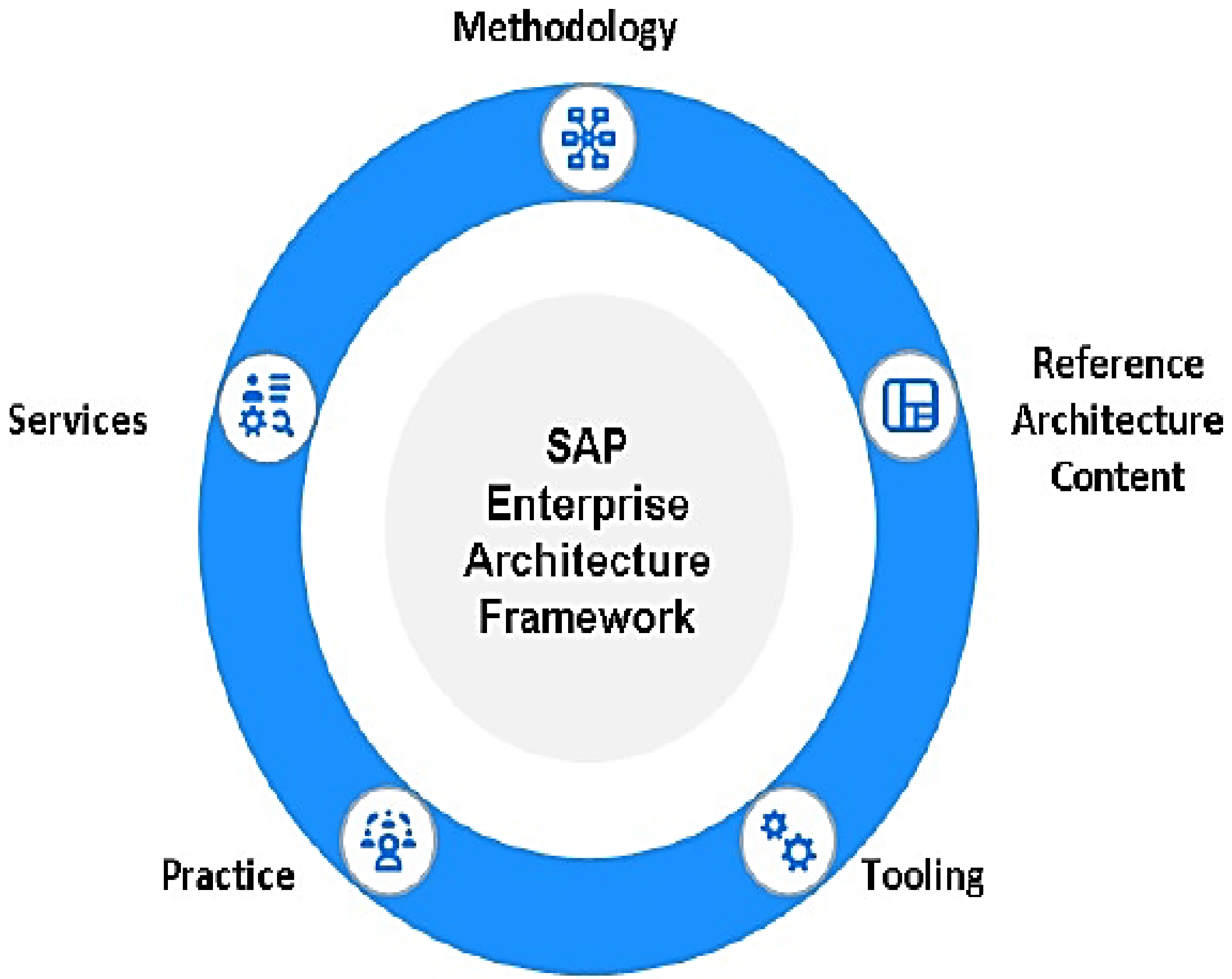
Apply the SAP Enterprise Architecture Framework Along an Architecture Development Cycle

SAP
June 2025

Public

SAP Enterprise Architecture Framework


Methodology
Services
Reference Architecture Content
SAP Enterprise Architecture Framework
Practice
Tooling

The SAP EA **Methodology** is based on industry standards (such as TOGAF®, BPMN™, UML®, APQC®) and supports enterprise architect journeys from the definition of target architectures to implementation and continuous transformation. It introduces concepts, artifacts, techniques, and principles.

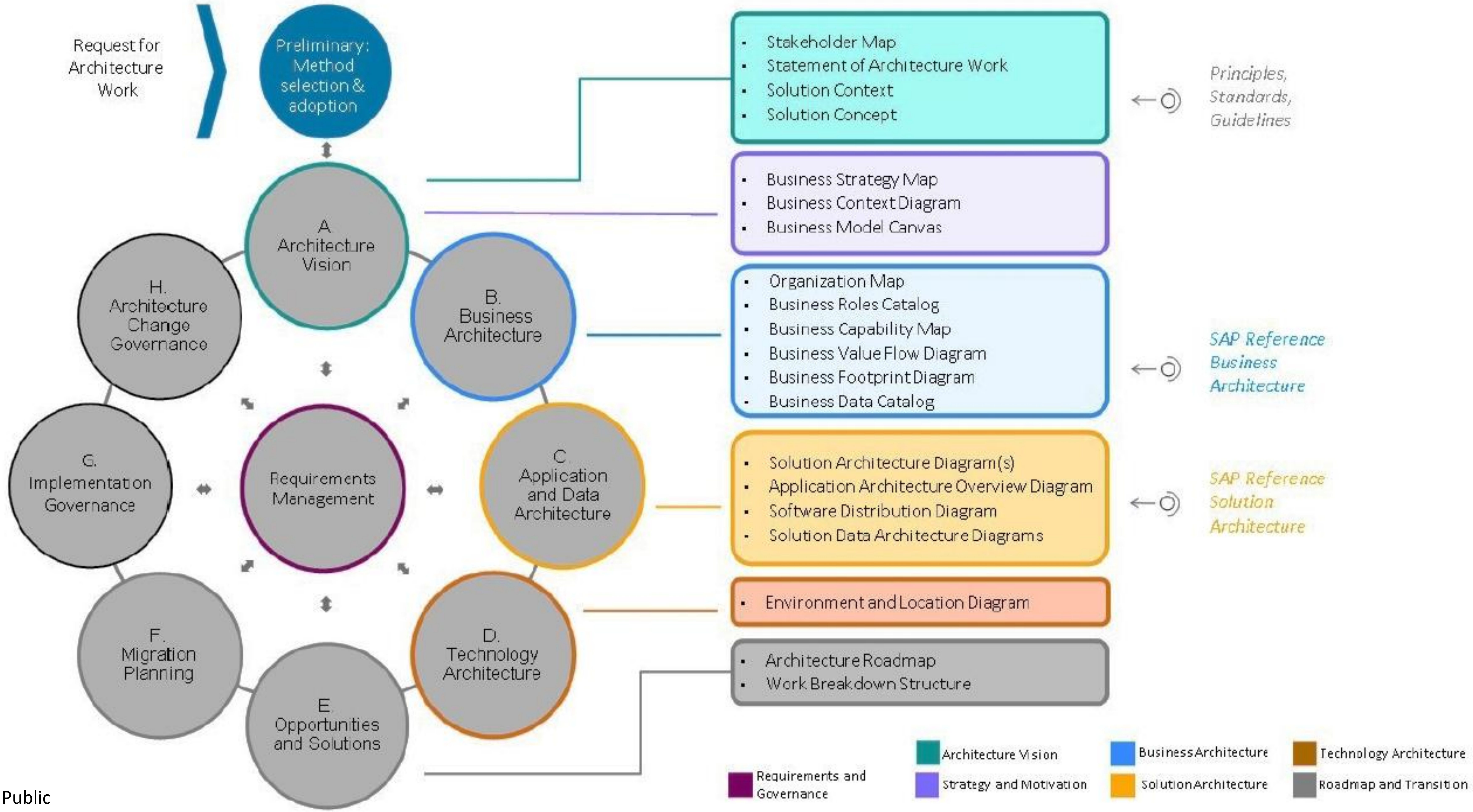
SAP **Reference** Business and Solution **Architecture Content** maps the business strategy and architecture to SAP solutions.

EA **Tooling** supports documentation, adjustment and consumption of EA artifacts complying to SAP EA Methodology.

The **EA Practice** is the organizational implementation of EA. It operates enterprise architecture within the organization, by adopting the EA methodology and establishing governance processes incl. change management process for the framework.

EA **Services** are supporting transformations by applying the methodology and using EA tooling and reference architecture content. Services can be sourced from SAP, other external providers, or provided by the practice. They can include enablement of different EA target roles in customers' and partners' organizations provided

Public


Request for Architecture Work
Preliminary: Method selection & adoption
A. Architecture Vision
B. Business Architecture
C. Application and Data Architecture
D. Technology Architecture
E. Opportunities and Solutions
F. Migration Planning
G. Implementation Governance
H. Architecture Change Governance
Requirements Management

- Stakeholder Map
- Statement of Architecture Work
- Solution Context
- Solution Concept

Principles, Standards, Guidelines

- Business Strategy Map
- Business Context Diagram
- Business Model Canvas

- Organization Map
- Business Roles Catalog
- Business Capability Map
- Business Value Flow Diagram
- Business Footprint Diagram
- Business Data Catalog

SAP Reference Business Architecture

- Solution Architecture Diagram(s)
- Application Architecture Overview Diagram
- Software Distribution Diagram
- Solution Data Architecture Diagrams

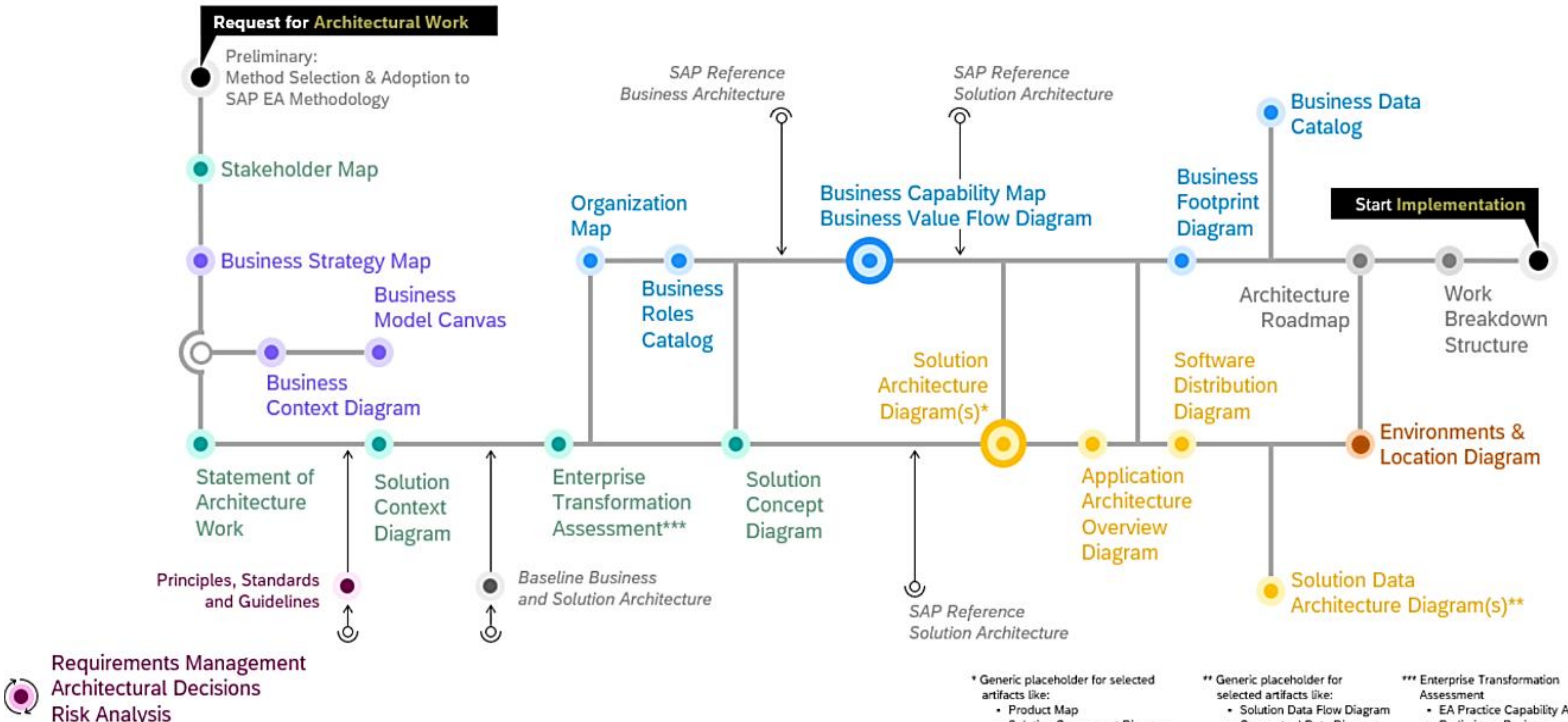
SAP Reference Solution Architecture

- Environment and Location Diagram

- Architecture Roadmap
- Work Breakdown Structure

🟪 Requirements and Governance
🟩 Architecture Vision
🟪 Strategy and Motivation
🟦 Business Architecture
🟧 Solution Architecture
🟫 Technology Architecture
⬜ Roadmap and Transition

SAP EA Methodology – Metro Map



Request for Architectural Work

Preliminary:
Method Selection & Adoption to
SAP EA Methodology

Stakeholder Map

Business Strategy Map

Business Model Canvas

Business Context Diagram

Statement of Architecture Work

Principles, Standards and Guidelines

Solution Context Diagram

Baseline Business and Solution Architecture

Enterprise Transformation Assessment***

Organization Map

Business Roles Catalog

Solution Concept Diagram

SAP Reference Business Architecture

Business Capability Map
Business Value Flow Diagram

SAP Reference Solution Architecture

Solution Architecture Diagram(s)*

SAP Reference Solution Architecture

Application Architecture Overview Diagram

Software Distribution Diagram

Business Footprint Diagram

Business Data Catalog

Solution Data Architecture Diagram(s)**

Architecture Roadmap

Environments & Location Diagram

Work Breakdown Structure

Start Implementation

Requirements Management
Architectural Decisions
Risk Analysis
Executive Summary

- 🟫 Requirements & Governance
- 🟩 Architecture Vision
- 🟪 Strategy and Motivation
- 🟦 Business Architecture
- 🟨 Solution Architecture
- 🟧 Technology Architecture
- ⬛ Roadmap & Transition

* Generic placeholder for selected artifacts like:
- Product Map
- Solution Component Diagram
- Solution Value Flow Diagram
- Solution Process Flow Diagram

** Generic placeholder for selected artifacts like:
- Solution Data Flow Diagram
- Conceptual Data Diagram

*** Enterprise Transformation Assessment
- EA Practice Capability Assessment
- Preliminary Business and Technology Capability Assessment
- Business and Technology Transformation Readiness Assessment

SAP Public

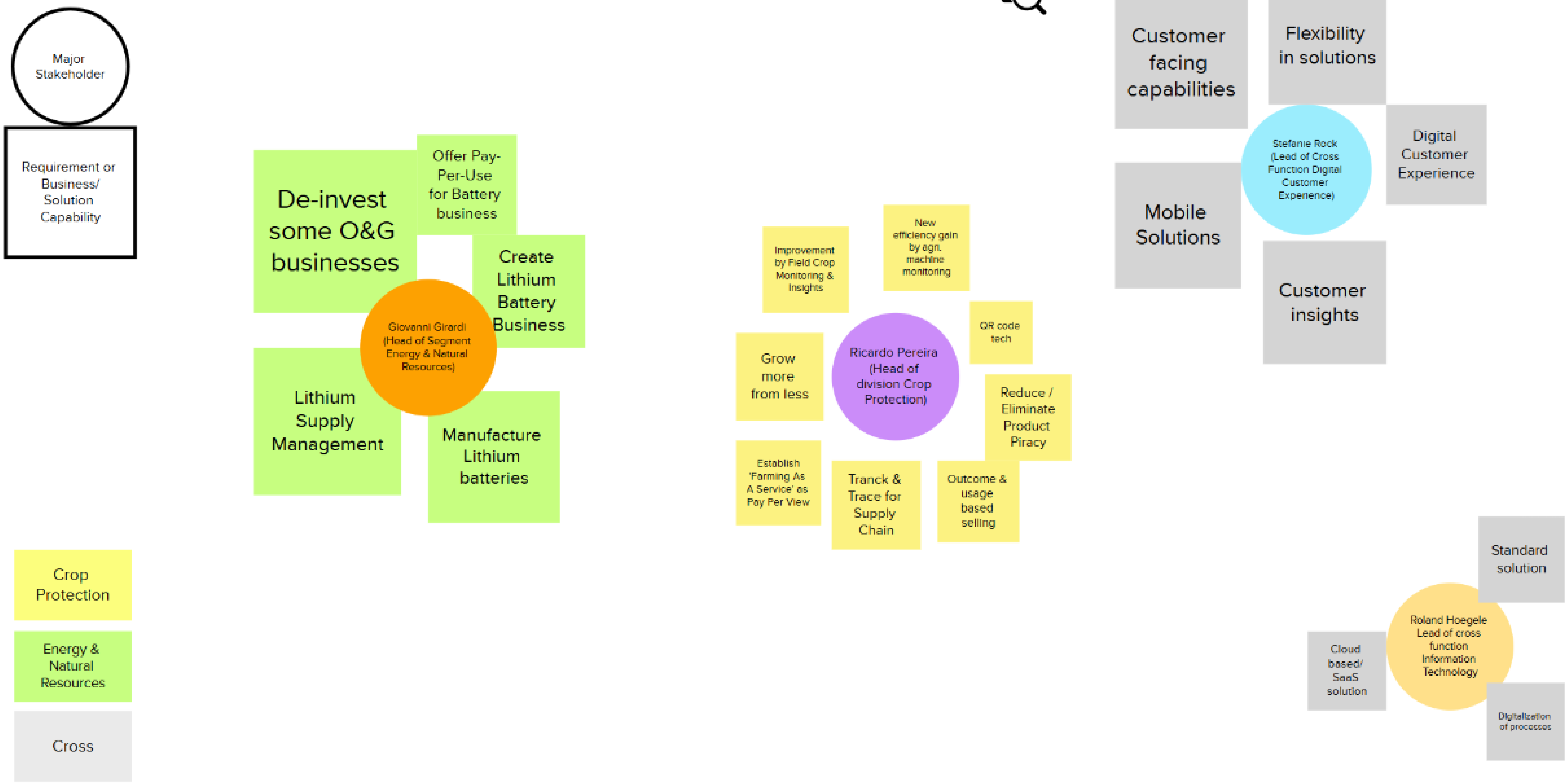
SAP Intelligent Enterprise Architecture (IEA10) - Training

V2.0

Customer Case Study: N3C

INTERNAL

Functional & Non-Functional



Major Stakeholder

Requirement or Business/ Solution Capability

Giovanni Girardi (Head of Segment Energy & Natural Resources)

De-invest some O&G businesses

Offer Pay-Per-Use for Battery business

Create Lithium Battery Business

Lithium Supply Management

Manufacture Lithium batteries

Ricardo Pereira (Head of division Crop Protection)

Improvement by Field Crop Monitoring & Insights

New efficiency gain by agri. machine monitoring

QR code tech

Grow more from less

Reduce / Eliminate Product Piracy

Establish 'Farming As A Service' as Pay Per View

Tranck & Trace for Supply Chain

Outcome & usage based selling

Stefanie Rock (Lead of Cross Function Digital Customer Experience)

Customer facing capabilities

Flexibility in solutions

Digital Customer Experience

Mobile Solutions

Customer insights

Roland Hoegele Lead of cross function Information Technology

Standard solution

Cloud based/ SaaS solution

Digitalization of processes

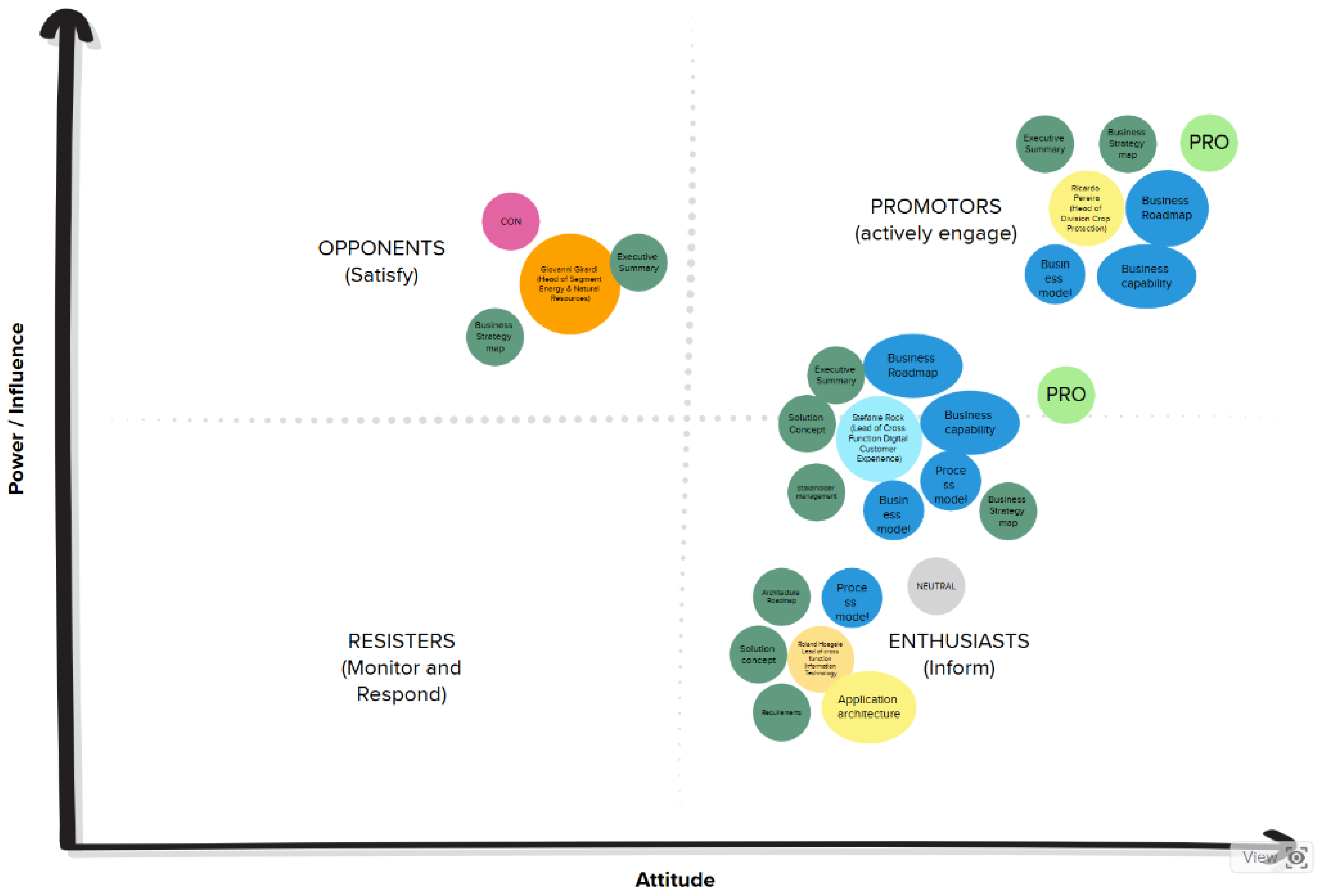
Crop Protection

Energy & Natural Resources

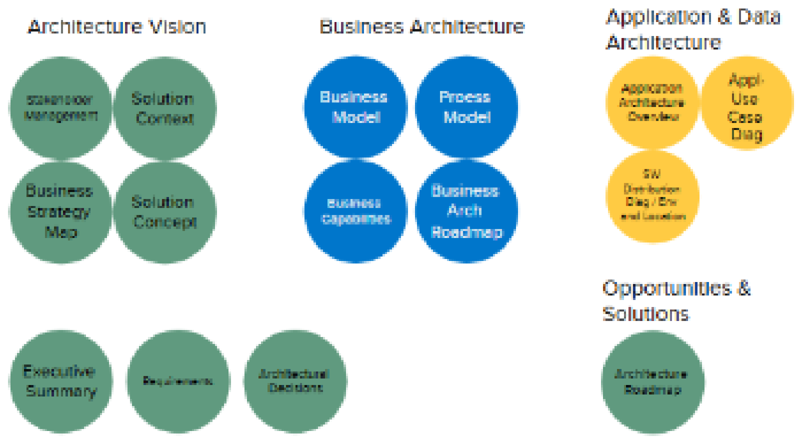
Cross

Stakeholder Engagement Map

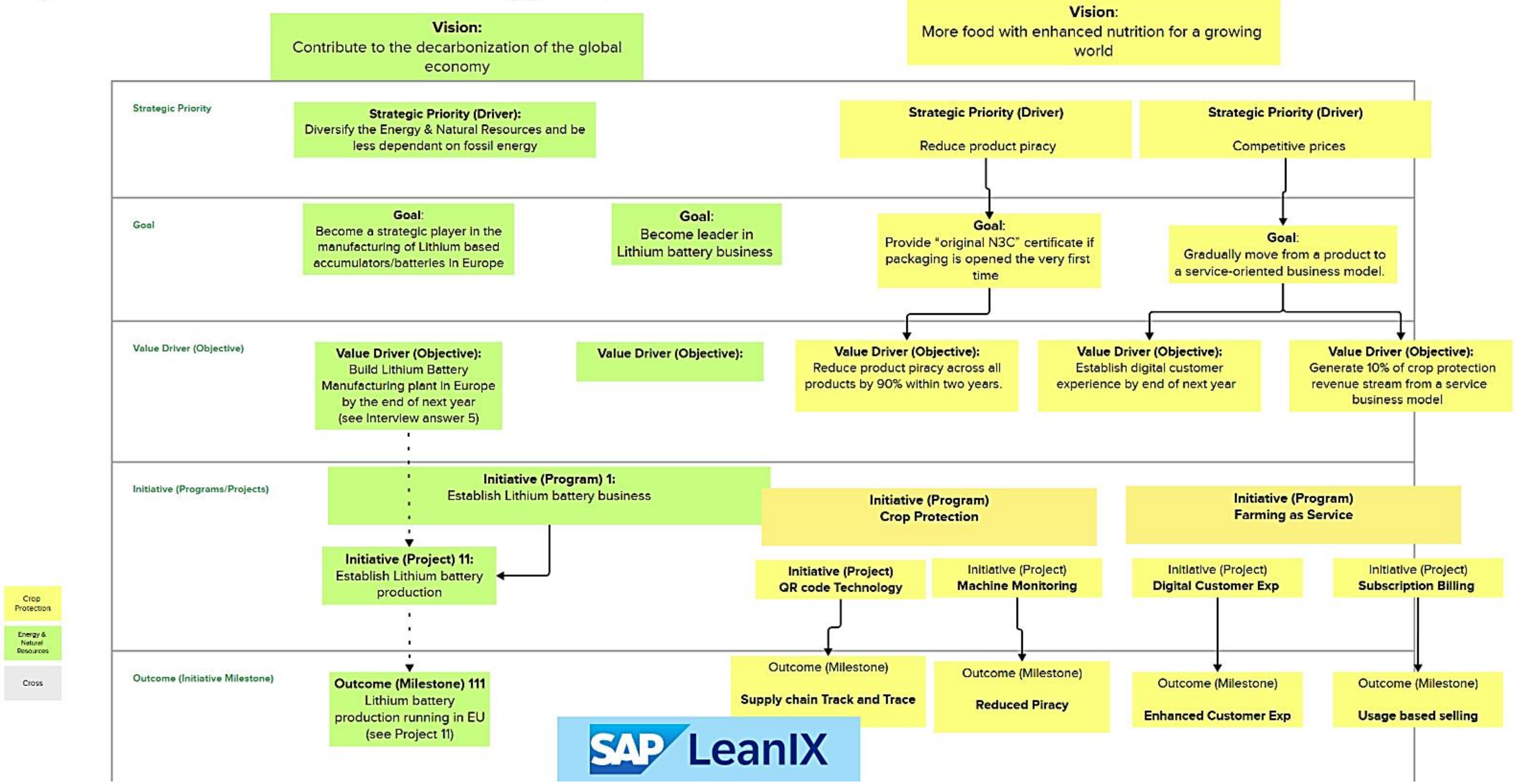
Ricardo Pereira (Head of division Crop Protection)
Stefanie Rock (Lead of Cross Function Digital Customer Experience)
Roland Hoegele Lead of cross function Information Technology
NEUTRAL
CON
PRO


Power / Influence
Attitude
OPPONENTS
(Satisfy)
CON
Giovanni Girardi (Head of Segment Energy & Natural Resources)
Executive Summary
Business Strategy map
PROMOTORS
(actively engage)
Executive Summary
Business Strategy map
PRO
Ricardo Pereira (Head of Division Crop Protection)
Business Roadmap
Business model
Business capability
Executive Summary
Business Roadmap
PRO
Solution Concept
Stefanie Rock (Lead of Cross Function Digital Customer Experience)
Business capability
stakeholder management
Business model
Process model
Business Strategy map
RESISTERS
(Monitor and Respond)
Architecture Roadmap
Process model
NEUTRAL
Solution concept
Roland Hoegele Lead of cross function Information Technology
Requirements
Application architecture
ENTHUSIASTS
(Inform)

Identify the Stakeholder and place them on this map
Use sticky notes to mark their level of engagement with this project (pro/con/neutral).
Optionally, add stickies that indicate which Arch Artefact is shared with the Stakeholder


Architecture Vision
Stakeholder Management
Solution Context
Business Strategy Map
Solution Concept
Business Architecture
Business Model
Process Model
Business capabilities
Business Arch Roadmap
Application & Data Architecture
Application Architecture Overview
Appl-Use Case Diag
SW Distribution Diag / Env and Location
Opportunities & Solutions
Architecture Roadmap
Executive Summary
Requirements
Architectural Decisions

Objective: Build Business Strategy Map



Vision:
Contribute to the decarbonization of the global economy

Vision:
More food with enhanced nutrition for a growing world

Strategic Priority

Strategic Priority (Driver):
Diversify the Energy & Natural Resources and be less dependant on fossil energy

Strategic Priority (Driver)
Reduce product piracy

Strategic Priority (Driver)
Competitive prices

Goal

Goal:
Become a strategic player in the manufacturing of Lithium based accumulators/batteries in Europe

Goal:
Become leader in Lithium battery business

Goal:
Provide "original N3C" certificate if packaging is opened the very first time

Goal:
Gradually move from a product to a service-oriented business model.

Value Driver (Objective)

Value Driver (Objective):
Build Lithium Battery Manufacturing plant in Europe by the end of next year (see Interview answer 5)

Value Driver (Objective):

Value Driver (Objective):
Reduce product piracy across all products by 90% within two years.

Value Driver (Objective):
Establish digital customer experience by end of next year

Value Driver (Objective):
Generate 10% of crop protection revenue stream from a service business model

Initiative (Programs/Projects)

Initiative (Program) 1:
Establish Lithium battery business

Initiative (Program)
Crop Protection

Initiative (Program)
Farming as Service

Initiative (Project) 11:
Establish Lithium battery production

Initiative (Project)
QR code Technology

Initiative (Project)
Machine Monitoring

Initiative (Project)
Digital Customer Exp

Initiative (Project)
Subscription Billing

Outcome (Initiative Milestone)

Outcome (Milestone) 111
Lithium battery production running in EU (see Project 11)

Outcome (Milestone)
Supply chain Track and Trace

Outcome (Milestone)
Reduced Piracy

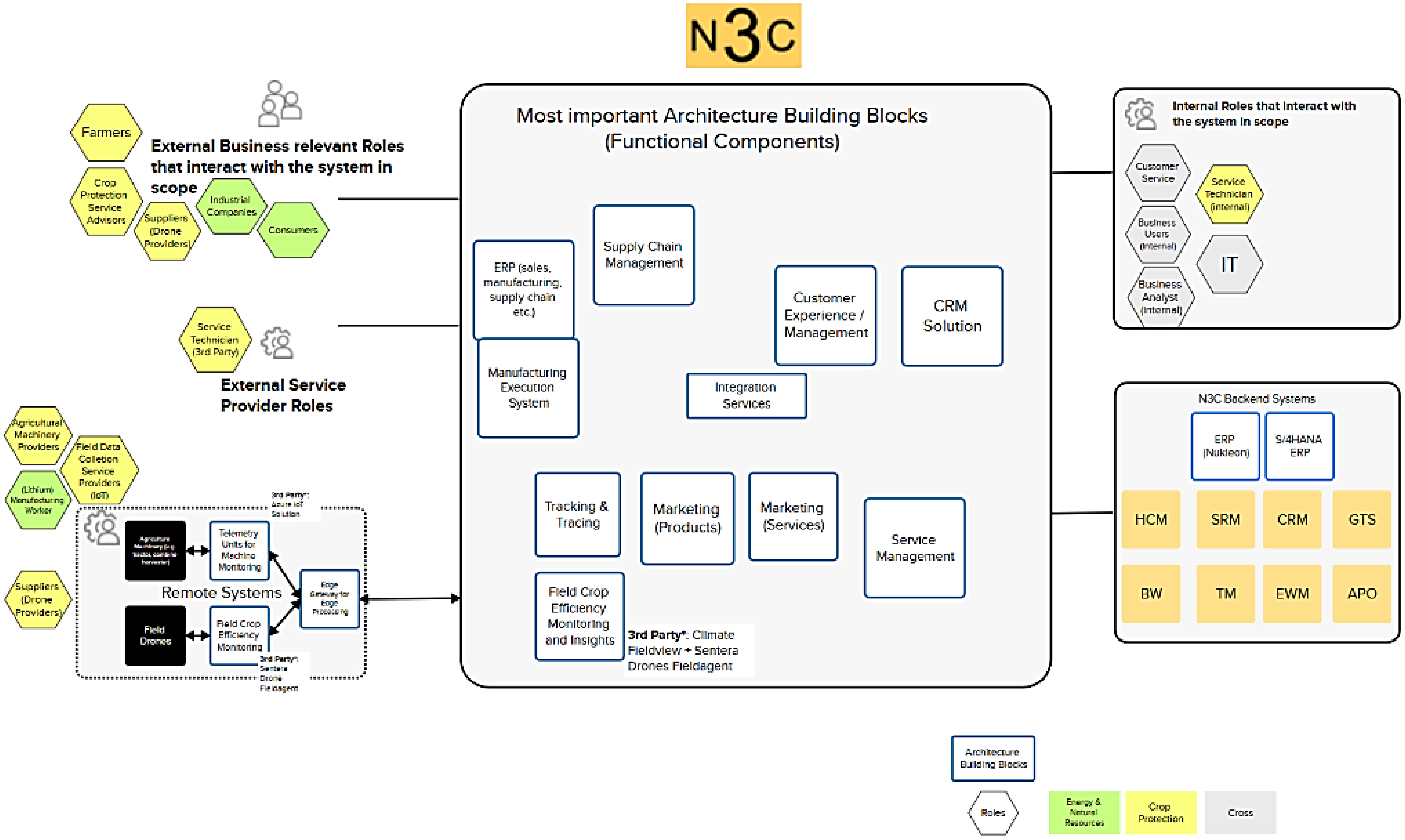
Outcome (Milestone)
Enhanced Customer Exp

Outcome (Milestone)
Usage based selling

Crop Protection
Energy & Natural Resources
Cross

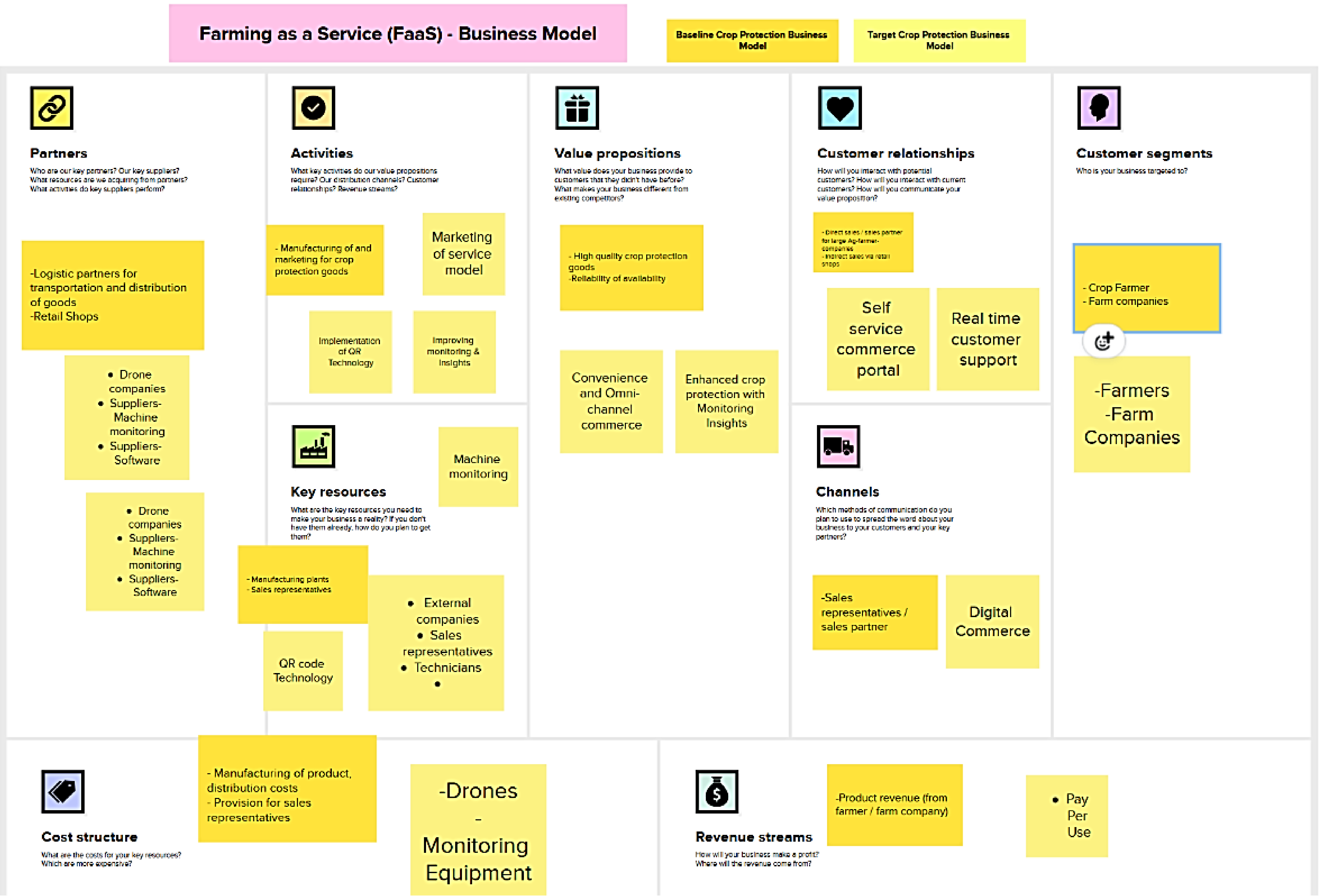
SAP LeanIX

Objective: Build Solution Concept


N3C
Farmers
External Business relevant Roles that interact with the system in scope
Crop Protection Service Advisors
Suppliers (Drone Providers)
Industrial Companies
Consumers
Service Technician (3rd Party)
External Service Provider Roles
Agricultural Machinery Providers
Field Data Colletion Service Providers (IoT)
(Lithium) Manufacturing Worker
Suppliers (Drone Providers)
3rd Party*: Azure IoT Solution
Telemetry Units for Machine Monitoring
Remote Systems
Edge Gateway for Edge Processing
Field Drones
Field Crop Efficiency Monitoring
3rd Party*: Sentera Drone Fieldagent
Most important Architecture Building Blocks (Functional Components)
ERP (sales, manufacturing, supply chain etc.)
Supply Chain Management
Customer Experience / Management
CRM Solution
Manufacturing Execution System
Integration Services
Tracking & Tracing
Marketing (Products)
Marketing (Services)
Service Management
Field Crop Efficiency Monitoring and Insights
3rd Party*: Climate Fieldview + Sentera Drones Fieldagent
Internal Roles that interact with the system in scope
Customer Service
Service Technician (internal)
Business Users (internal)
IT
Business Analyst (internal)
N3C Backend Systems
ERP (Nukleon)
S/4HANA ERP
HCM
SRM
CRM
GTS
BW
TM
EWM
APO
Architecture Building Blocks
Roles
Energy & Natural Resources
Crop Protection
Cross

Public

Objective: Build Business Model Canvas



Farming as a Service (FaaS) - Business Model

Baseline Crop Protection Business Model

Target Crop Protection Business Model

Partners

Who are our key partners? Our key suppliers? What resources are we acquiring from partners? What activities do key suppliers perform?

-Logistic partners for transportation and distribution of goods
-Retail Shops

- Drone companies
- Suppliers- Machine monitoring
- Suppliers- Software

- Drone companies
- Suppliers- Machine monitoring
- Suppliers- Software

Activities

What key activities do our value propositions require? Our distribution channels? Customer relationships? Revenue streams?

- Manufacturing of and marketing for crop protection goods

Marketing of service model

Implementation of QR Technology

Improving monitoring & Insights

Key resources

What are the key resources you need to make your business a reality? If you don't have them already, how do you plan to get them?

Machine monitoring

- Manufacturing plants
- Sales representatives

QR code Technology

- External companies
- Sales representatives
- Technicians

Value propositions

What value does your business provide to customers that they didn't have before? What makes your business different from existing competitors?

- High quality crop protection goods
-Reliability of availability

Convenience and Omni-channel commerce

Enhanced crop protection with Monitoring Insights

Customer relationships

How will you interact with potential customers? How will you interact with current customers? How will you communicate your value proposition?

- Direct sales / sales partner for large Ag-farmer-companies
- Indirect sales via retail shops

Self service commerce portal

Real time customer support

Channels

Which methods of communication do you plan to use to spread the word about your business to your customers and your key partners?

-Sales representatives / sales partner

Digital Commerce

Customer segments

Who is your business targeted to?

- Crop Farmer
- Farm companies

-Farmers
-Farm Companies

Cost structure

What are the costs for your key resources? Which are more expensive?

- Manufacturing of product, distribution costs
- Provision for sales representatives

-Drones
-
Monitoring Equipment

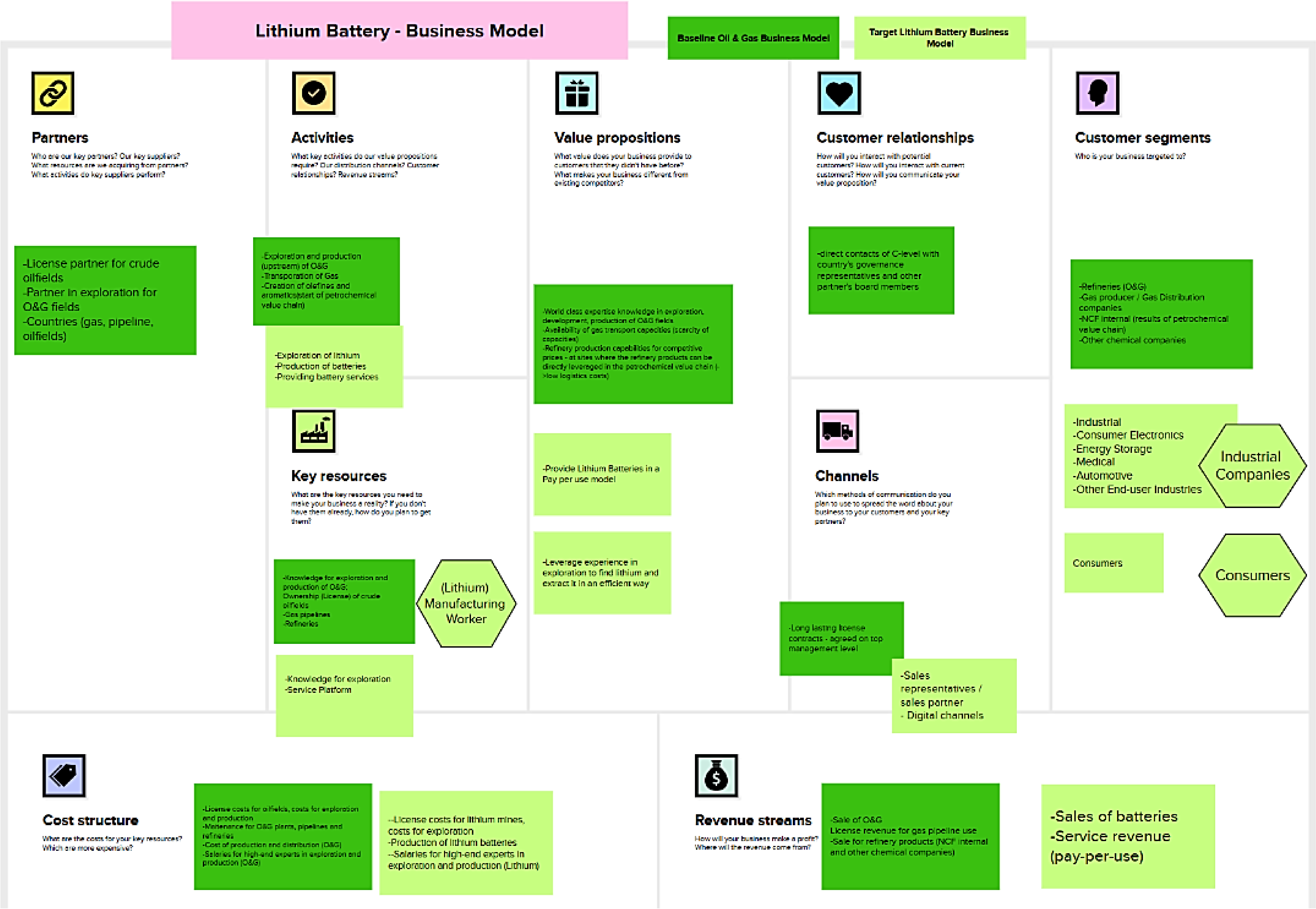
Revenue streams

How will your business make a profit? Where will the revenue come from?

-Product revenue (from farmer / farm company)

- Pay Per Use

Lithium Battery - Business Model



🟩 Baseline Oil & Gas Business Model

🟩 Target Lithium Battery Business Model

Partners

Who are our key partners? Our key suppliers? What resources are we acquiring from partners? What activities do key suppliers perform?

-License partner for crude oilfields
-Partner in exploration for O&G fields
-Countries (gas, pipeline, oilfields)

Activities

What key activities do our value propositions require? Our distribution channels? Customer relationships? Revenue streams?

-Exploration and production (upstream) of O&G
-Transporation of Gas
-Creation of olefines and aromatics(start of petrochemical value chain)

-Exploration of lithium
-Production of batteries
-Providing battery services

Key resources

What are the key resources you need to make your business a reality? If you don't have them already, how do you plan to get them?

-Knowledge for exploration and production of O&G;
Ownership (License) of crude oilfields
-Gas pipelines
-Refineries

(Lithium) Manufacturing Worker

-Knowledge for exploration
-Service Platform

Value propositions

What value does your business provide to customers that they didn't have before? What makes your business different from existing competitors?

-World class expertise knowledge in exploration, development, production of O&G fields
-Availability of gas transport capacities (scarcity of capacities)
-Refinery production capabilities for competitive prices - at sites where the refinery products can be directly leveraged in the petrochemical value chain (->low logistics costs)

-Provide Lithium Batteries in a Pay per use model

-Leverage experience in exploration to find lithium and extract it in an efficient way

Customer relationships

How will you interact with potential customers? How will you interact with current customers? How will you communicate your value proposition?

-direct contacts of C-level with country's governance representatives and other partner's board members

Channels

Which methods of communication do you plan to use to spread the word about your business to your customers and your key partners?

-Long lasting license contracts - agreed on top management level

-Sales representatives / sales partner
- Digital channels

Customer segments

Who is your business targeted to?

-Refineries (O&G)
-Gas producer / Gas Distribution companies
-NCF internal (results of petrochemical value chain)
-Other chemical companies

-Industrial
-Consumer Electronics
-Energy Storage
-Medical
-Automotive
-Other End-user Industries

Industrial Companies

Consumers

Consumers

Cost structure

What are the costs for your key resources? Which are more expensive?

-License costs for oilfields, costs for exploration and production
-Maintenance for O&G plants, pipelines and refineries
-Cost of production and distribution (O&G)
-Salaries for high-end experts in exploration and production (O&G)

--License costs for lithium mines, costs for exploration
-Production of lithium batteries
--Salaries for high-end experts in exploration and production (Lithium)

Revenue streams

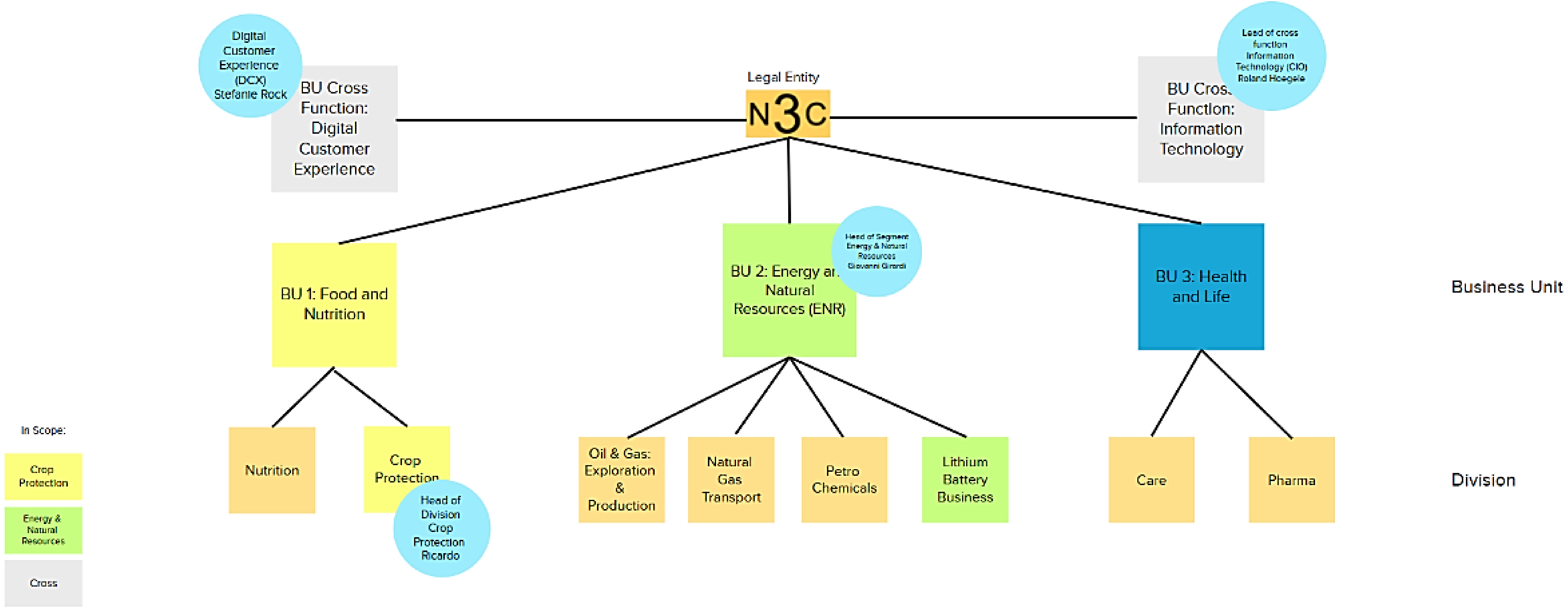
How will your business make a profit? Where will the revenue come from?

-Sale of O&G
License revenue for gas pipeline use
-Sale for refinery products (NCF internal and other chemical companies)

-Sales of batteries
-Service revenue (pay-per-use)

Public

Objective: Build Organization Map



Legal Entity

N3C

Digital Customer Experience (DCX) Stefanie Rock

BU Cross Function: Digital Customer Experience

Lead of cross function Information Technology (CIO) Roland Hoegele

BU Cross Function: Information Technology

BU 1: Food and Nutrition

BU 2: Energy and Natural Resources (ENR)

Head of Segment Energy & Natural Resources Giovanni Girardi

BU 3: Health and Life

Business Unit

Nutrition

Crop Protection

Head of Division Crop Protection Ricardo

Oil & Gas: Exploration & Production

Natural Gas Transport

Petro Chemicals

Lithium Battery Business

Care

Pharma

Division

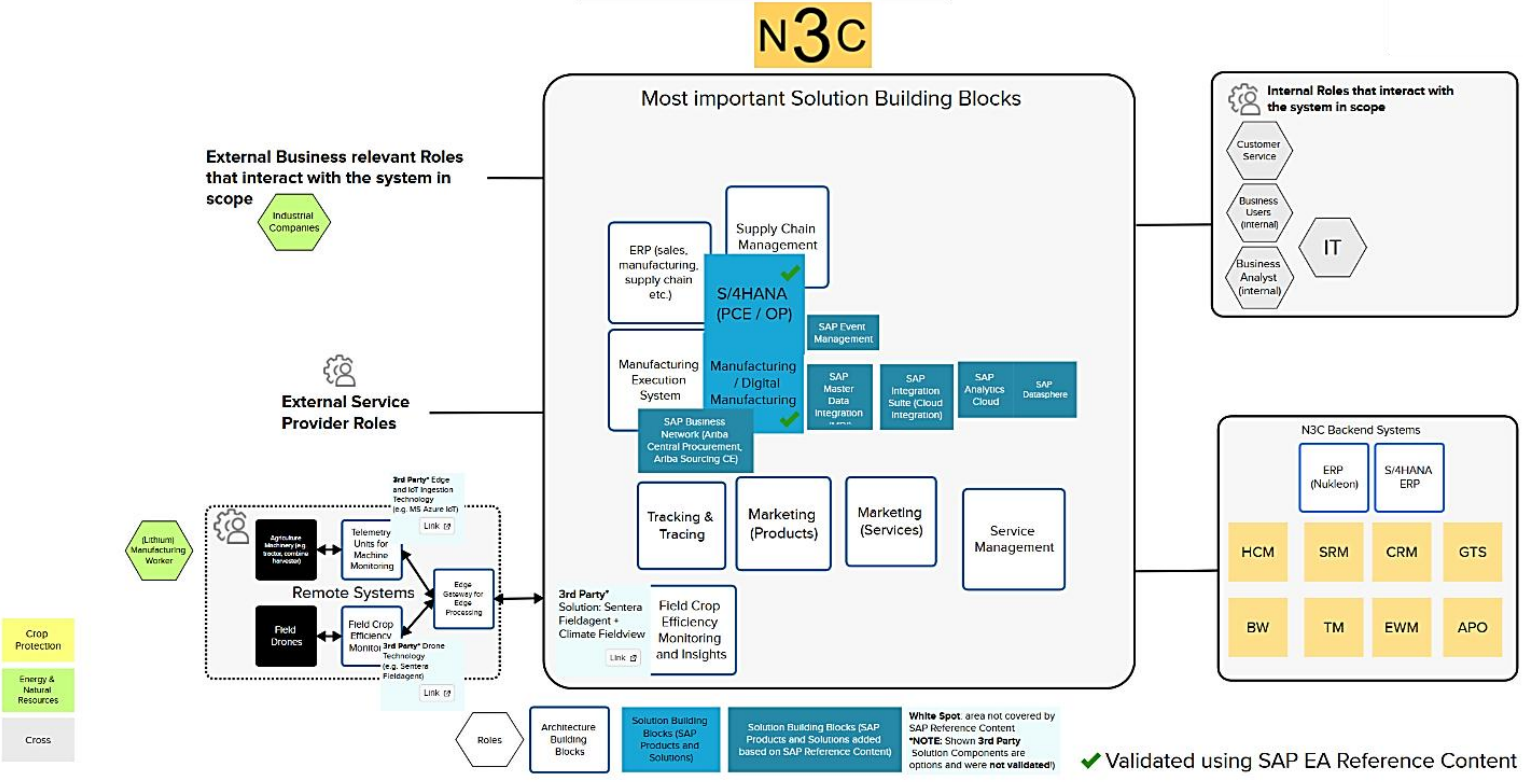
In Scope:

Crop Protection

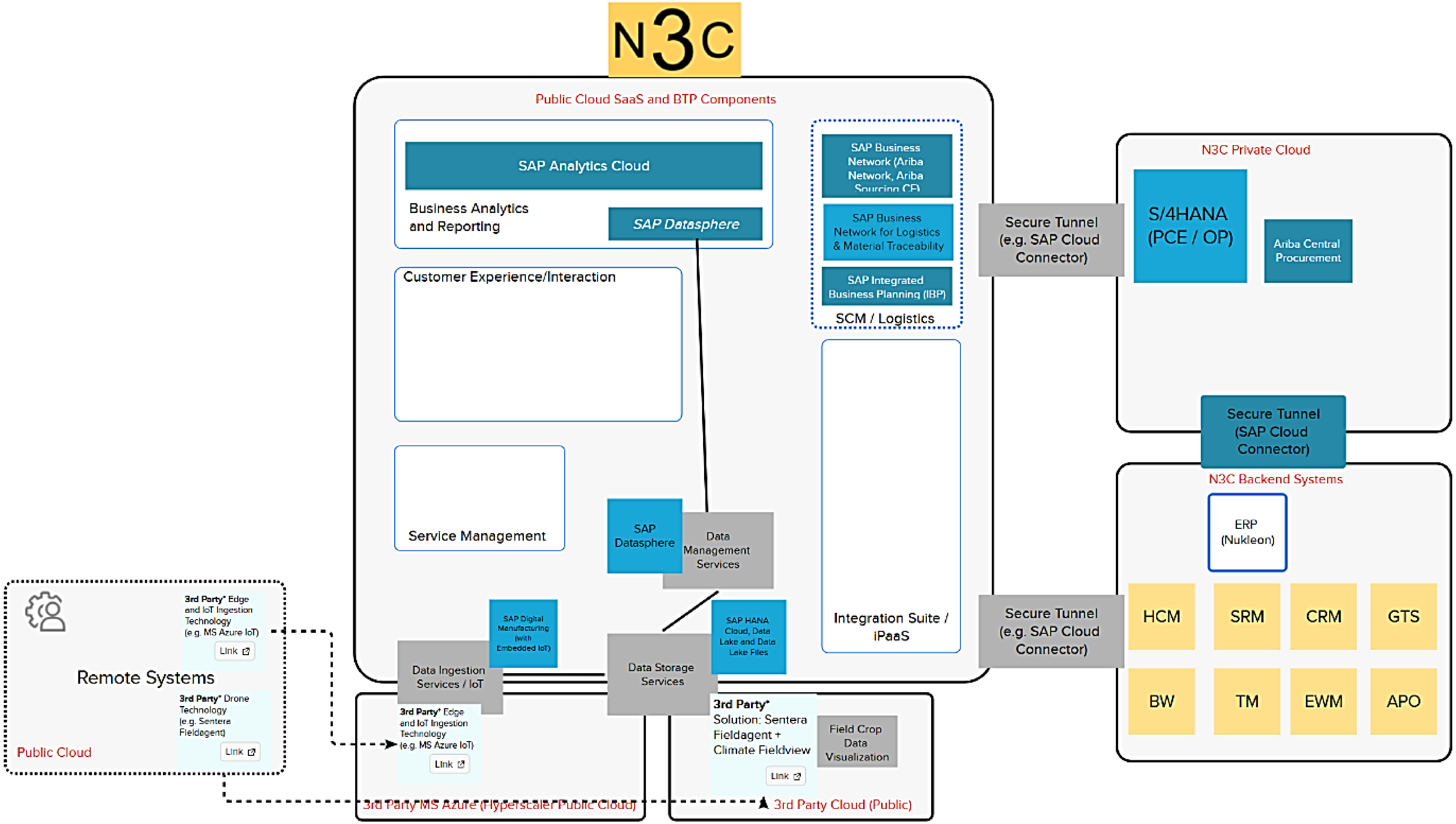
Energy & Natural Resources

Cross

Solution / Product Mapping

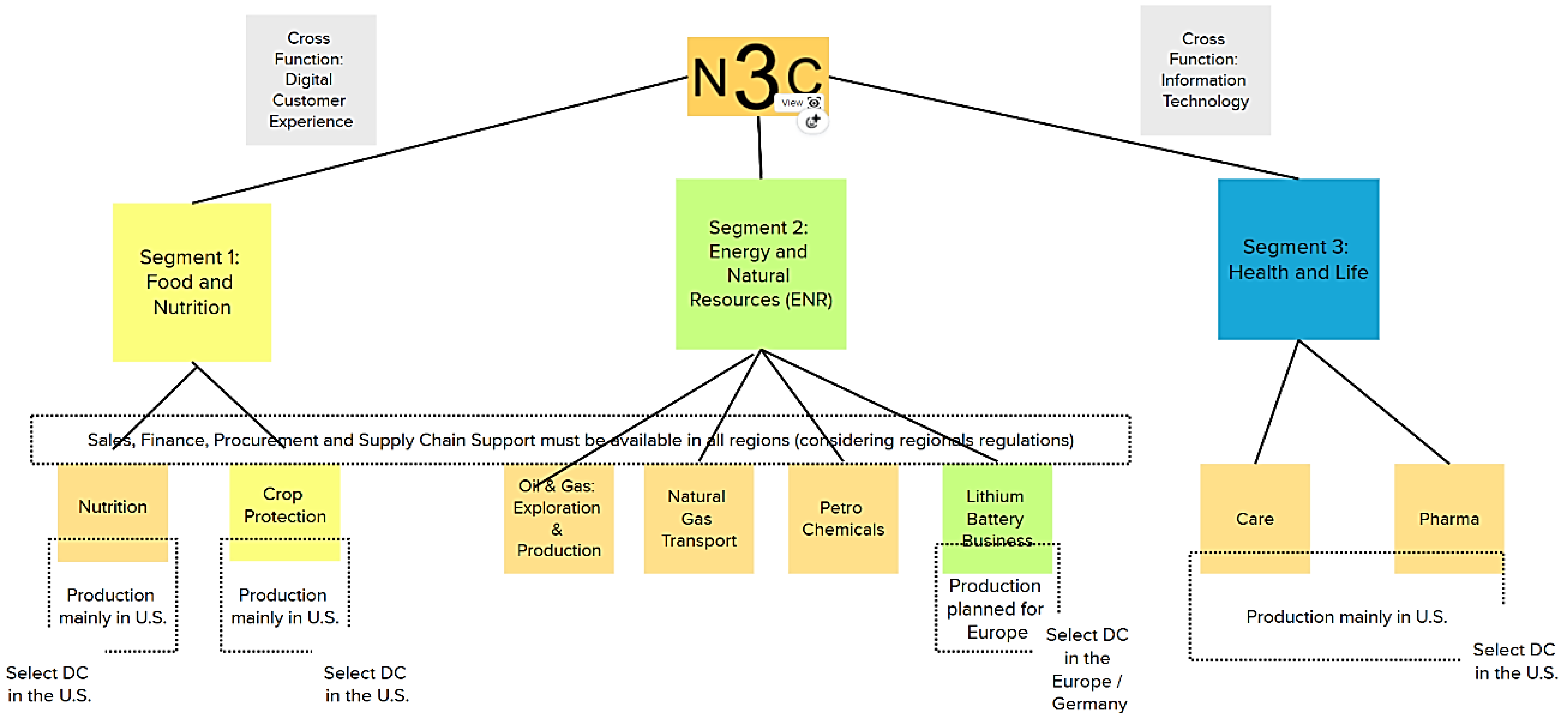

N3C
Most important Solution Building Blocks
External Business relevant Roles that interact with the system in scope
Industrial Companies
External Service Provider Roles
ERP (sales, manufacturing, supply chain etc.)
Supply Chain Management
S/4HANA (PCE / OP)
✓
Manufacturing Execution System
Manufacturing / Digital Manufacturing
✓
SAP Event Management
SAP Master Data Integration
SAP Integration Suite (Cloud Integration)
SAP Analytics Cloud
SAP Datasphere
SAP Business Network (Ariba Central Procurement, Ariba Sourcing CE)
Tracking & Tracing
Marketing (Products)
Marketing (Services)
Service Management
3rd Party* Solution: Sentera Fieldagent + Climate Fieldview
Link
Field Crop Efficiency Monitoring and Insights
(Lithium) Manufacturing Worker
Agriculture Machinery (e.g. tractor, combine harvester)
Telemetry Units for Machine Monitoring
3rd Party* Edge and IoT Ingestion Technology (e.g. MS Azure IoT)
Link
Remote Systems
Edge Gateway for Edge Processing
Field Drones
Field Crop Efficiency Monitor
3rd Party* Drone Technology (e.g. Sentera Fieldagent)
Link
Internal Roles that interact with the system in scope
Customer Service
Business Users (internal)
Business Analyst (internal)
IT
N3C Backend Systems
ERP (Nukleon)
S/4HANA ERP
HCM
SRM
CRM
GTS
BW
TM
EWM
APO
Crop Protection
Energy & Natural Resources
Cross
Roles
Architecture Building Blocks
Solution Building Blocks (SAP Products and Solutions)
Solution Building Blocks (SAP Products and Solutions added based on SAP Reference Content)
White Spot: area not covered by SAP Reference Content
*NOTE: Shown 3rd Party Solution Components are options and were not validated!)
✓ Validated using SAP EA Reference Content

Objective: Build Software Distribution Diagram


N3C
Public Cloud SaaS and BTP Components
SAP Analytics Cloud
Business Analytics and Reporting
SAP Datasphere
Customer Experience/Interaction
Service Management
SAP Datasphere
Data Management Services
SAP Business Network (Ariba Network, Ariba Sourcing CF)
SAP Business Network for Logistics & Material Traceability
SAP Integrated Business Planning (IBP)
SCM / Logistics
Integration Suite / iPaaS
SAP Digital Manufacturing (with Embedded IoT)
Data Ingestion Services / IoT
Data Storage Services
SAP HANA Cloud, Data Lake and Data Lake Files
Secure Tunnel (e.g. SAP Cloud Connector)
Secure Tunnel (e.g. SAP Cloud Connector)
N3C Private Cloud
S/4HANA (PCE / OP)
Ariba Central Procurement
Secure Tunnel (SAP Cloud Connector)
N3C Backend Systems
ERP (Nukleon)
HCM
SRM
CRM
GTS
BW
TM
EWM
APO
Remote Systems
3rd Party* Edge and IoT Ingestion Technology (e.g. MS Azure IoT)
Link
3rd Party* Drone Technology (e.g. Sentera Fieldagent)
Link
Public Cloud
3rd Party* Edge and IoT Ingestion Technology (e.g. MS Azure IoT)
Link
3rd Party MS Azure (Hyperscaler Public Cloud)
3rd Party* Solution: Sentera Fieldagent + Climate Fieldview
Link
Field Crop Data Visualization
3rd Party Cloud (Public)

Public

Objective: Re-use Organization Map for Location Identification



N3C

Cross Function: Digital Customer Experience

Cross Function: Information Technology

Segment 1: Food and Nutrition

Segment 2: Energy and Natural Resources (ENR)

Segment 3: Health and Life

Sales, Finance, Procurement and Supply Chain Support must be available in all regions (considering regionals regulations)

Nutrition

Crop Protection

Oil & Gas: Exploration & Production

Natural Gas Transport

Petro Chemicals

Lithium Battery Business

Care

Pharma

Production mainly in U.S.

Select DC in the U.S.

Production mainly in U.S.

Select DC in the U.S.

Production planned for Europe

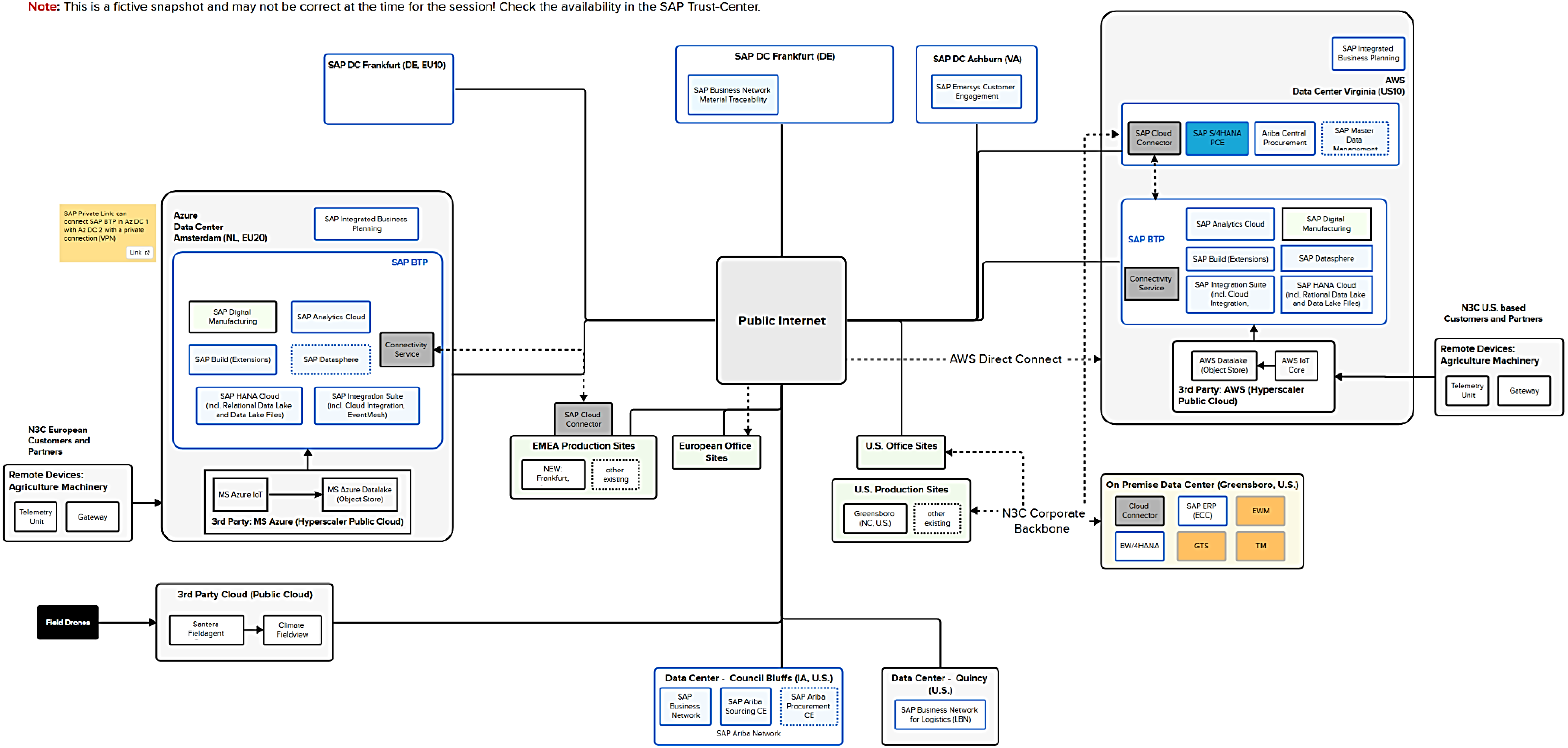
Select DC in the Europe / Germany

Production mainly in U.S.

Select DC in the U.S.

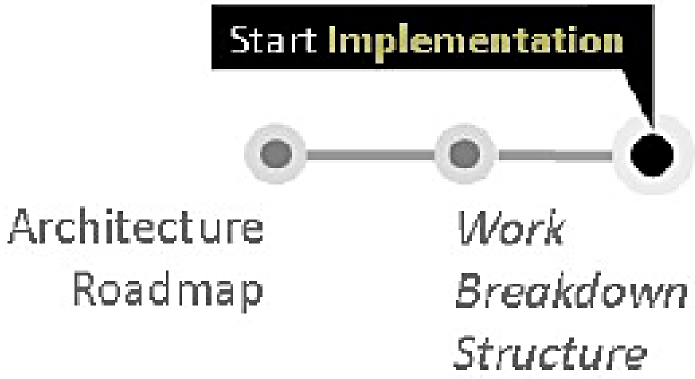
Objective: Build Environment & Location Diagram

Note: This is a fictive snapshot and may not be correct at the time for the session! Check the availability in the SAP Trust-Center.


SAP DC Frankfurt (DE, EU10)
SAP DC Frankfurt (DE)
SAP Business Network Material Traceability
SAP DC Ashburn (VA)
SAP Emarsys Customer Engagement
SAP Integrated Business Planning
AWS
Data Center Virginia (US10)
SAP Cloud Connector
SAP S/4HANA PCE
Ariba Central Procurement
SAP Master Data Management
SAP BTP
SAP Analytics Cloud
SAP Digital Manufacturing
SAP Build (Extensions)
SAP Datasphere
Connectivity Service
SAP Integration Suite (incl. Cloud Integration,
SAP HANA Cloud (incl. Rational Data Lake and Data Lake Files)
AWS Datalake (Object Store)
AWS IoT Core
3rd Party: AWS (Hyperscaler Public Cloud)
N3C U.S. based Customers and Partners
Remote Devices: Agriculture Machinery
Telemetry Unit
Gateway
SAP Private Link: can connect SAP BTP in Az DC 1 with Az DC 2 with a private connection (VPN)
Link
Azure Data Center Amsterdam (NL, EU20)
SAP Integrated Business Planning
SAP BTP
SAP Digital Manufacturing
SAP Analytics Cloud
SAP Build (Extensions)
SAP Datasphere
Connectivity Service
SAP HANA Cloud (incl. Relational Data Lake and Data Lake Files)
SAP Integration Suite (incl. Cloud Integration, EventMesh)
MS Azure IoT
MS Azure Datalake (Object Store)
3rd Party: MS Azure (Hyperscaler Public Cloud)
N3C European Customers and Partners
Remote Devices: Agriculture Machinery
Telemetry Unit
Gateway
Public Internet
AWS Direct Connect
SAP Cloud Connector
EMEA Production Sites
NEW: Frankfurt,
other existing
European Office Sites
U.S. Office Sites
U.S. Production Sites
Greensboro (NC, U.S.)
other existing
N3C Corporate Backbone
On Premise Data Center (Greensboro, U.S.)
Cloud Connector
SAP ERP (ECC)
EWM
BW/4HANA
GTS
TM
Field Drones
3rd Party Cloud (Public Cloud)
Sentera Fieldagent
Climate Fieldview
Data Center - Council Bluffs (IA, U.S.)
SAP Business Network
SAP Ariba Sourcing CE
SAP Ariba Procurement CE
SAP Ariba Network
Data Center - Quincy (U.S.)
SAP Business Network for Logistics (LBN)

Opportunities and Solutions - Architecture Roadmap

Architecture Roadmap may reflect different aspects.
A **Business Architecture Roadmap** is a visual representation of business outcomes across time horizons und functional clusters.
An **Application Architecture Roadmap** depicts the solutions required to realize a company's goals within a given time

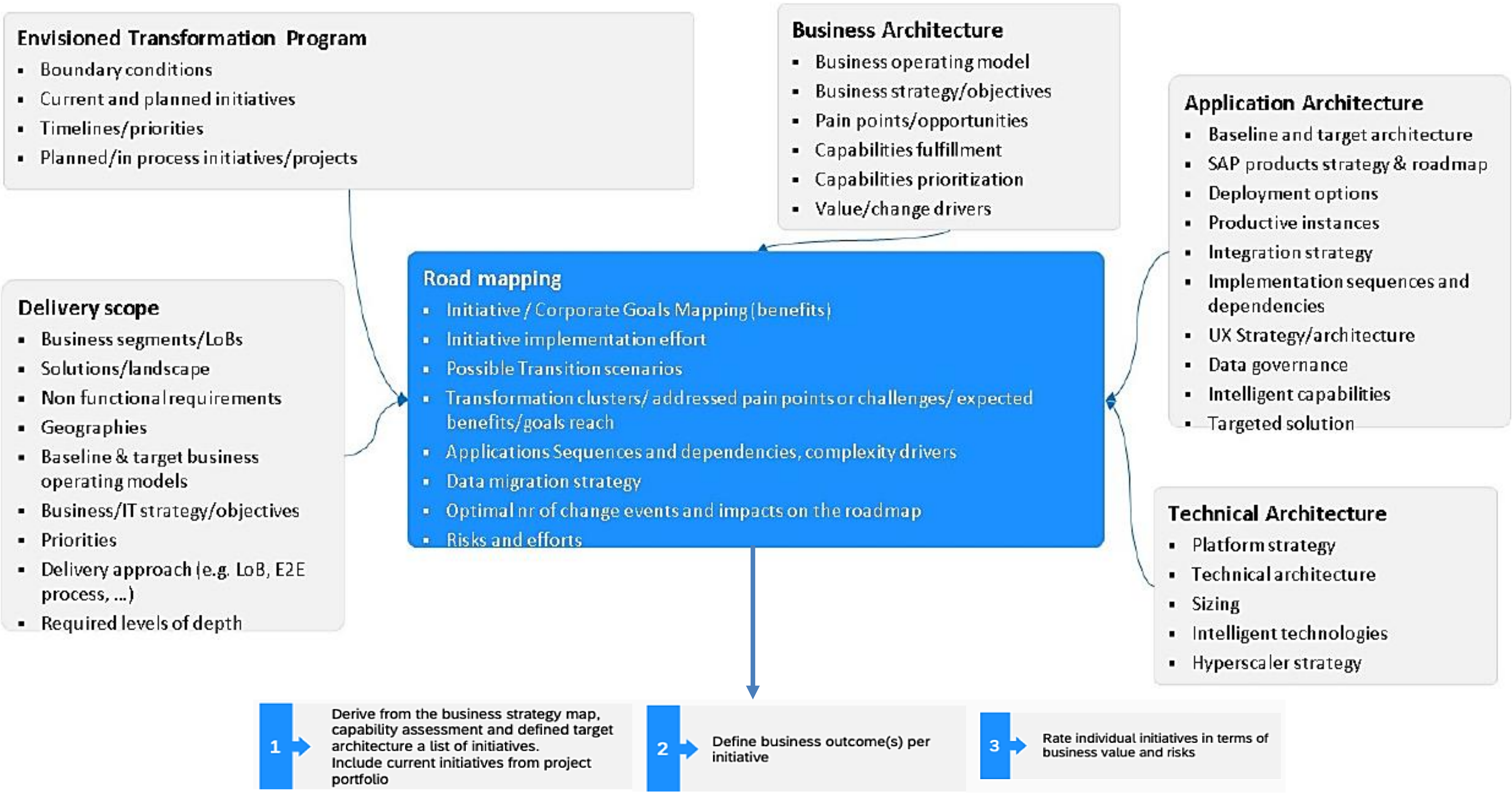

Start Implementation
Architecture Roadmap
Work Breakdown Structure

Work Breakdown Structure is a visual and hierarchically representation of manageable work packages (deliverables) for a given project (timeline). It includes major project milestones and may have assigned effort estimations and budget allocations.

Public

SAP Enterprise Architecture

Road-mapping influencing factors



Envisioned Transformation Program
- Boundary conditions
- Current and planned initiatives
- Timelines/priorities
- Planned/in process initiatives/projects

Business Architecture
- Business operating model
- Business strategy/objectives
- Pain points/opportunities
- Capabilities fulfillment
- Capabilities prioritization
- Value/change drivers

Application Architecture
- Baseline and target architecture
- SAP products strategy & roadmap
- Deployment options
- Productive instances
- Integration strategy
- Implementation sequences and dependencies
- UX Strategy/architecture
- Data governance
- Intelligent capabilities
- Targeted solution

Delivery scope
- Business segments/LoBs
- Solutions/landscape
- Non functional requirements
- Geographies
- Baseline & target business operating models
- Business/IT strategy/objectives
- Priorities
- Delivery approach (e.g. LoB, E2E process, …)
- Required levels of depth

Road mapping
- Initiative / Corporate Goals Mapping (benefits)
- Initiative implementation effort
- Possible Transition scenarios
- Transformation clusters/ addressed pain points or challenges/ expected benefits/goals reach
- Applications Sequences and dependencies, complexity drivers
- Data migration strategy
- Optimal nr of change events and impacts on the roadmap
- Risks and efforts

Technical Architecture
- Platform strategy
- Technical architecture
- Sizing
- Intelligent technologies
- Hyperscaler strategy

1 Derive from the business strategy map, capability assessment and defined target architecture a list of initiatives.
Include current initiatives from project portfolio

2 Define business outcome(s) per initiative

3 Rate individual initiatives in terms of business value and risks

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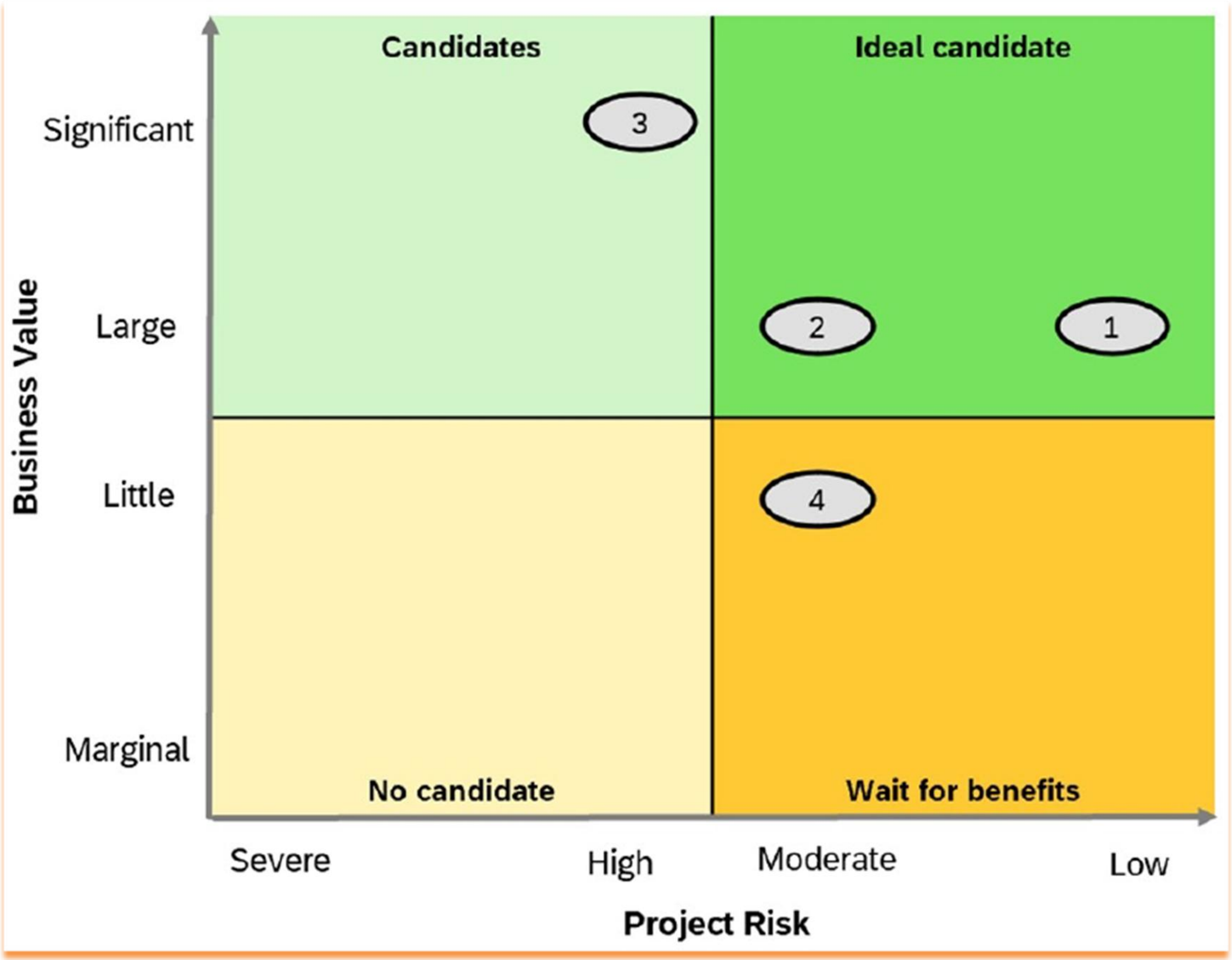
Initiative Catalog and Priorities Matrix

1

Derive from the business strategy map, capability assessment and defined target architecture a list of initiatives.
Include current initiatives from project portfolio

Initiative Catalog

No	Initiative	Description
1	*Monitor and manage capital expenditure*	*Capital expenditure must be measured for return of investment and allow for better modelling in case of major investments*
2	*Implement flexible pricing model*	*Product and service pricing must be flexible to facilitate better competition, fast reaction to changing market and support marketing campaigns*
3	*Improve time-to-market*	*Improve processes from the idea to release-to-market for our products and services to achieve readiness faster and cheaper*
4	*Engage customers*	*Improve customer engagement for various channels and customer types*
5	…	…


Candidates
Ideal candidate
No candidate
Wait for benefits
Business Value
Significant
Large
Little
Marginal
Project Risk
Severe
High
Moderate
Low
3
2
1
4

Public

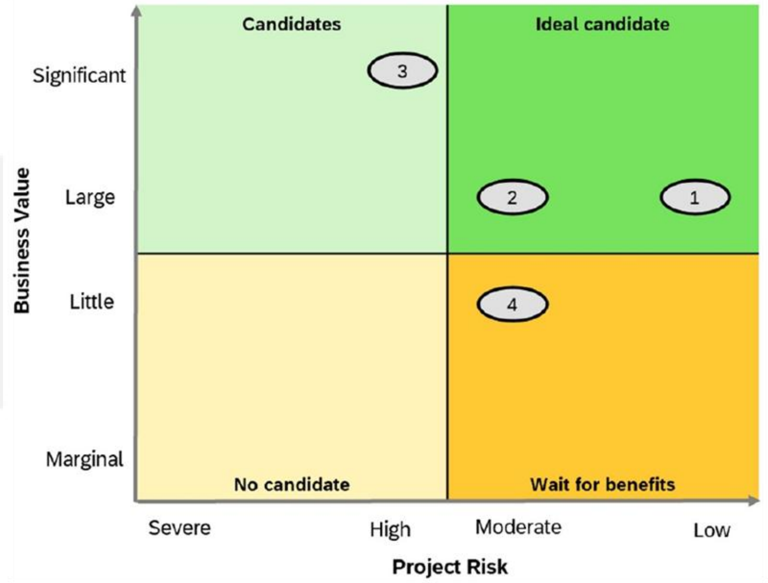
Initiative Catalog and Priorities Matrix

2 Define business outcome(s) per initiative

Initiative Outcome Catalog

No	Initiative	Outcome
1	*Monitor and manage capital expenditure*	*Real-time capital expenditure insights enabled*
2	*Implement flexible pricing model*	*Flexible portfolio and dynamic market pricing implemented*
3	*Improve time-to-market*	*Agile release-to-market in operation*
4	*Engage customers*	*Best in class customer churn rate achieved*
5	…	…

3 Rate individual initiatives in terms of business value and risks


Candidates
Ideal candidate
Significant
Large
Little
Marginal
Business Value
3
2
1
4
No candidate
Wait for benefits
Severe
High
Moderate
Low
Project Risk

Initiative / Value and Risk

No	Initiative	Description	Business Value	Risk
1	***Monitor and manage capital expenditure***	*Capital expenditure must be measured for return of investment and allow for bett modelling in case of major investments*	★★★☆	↑⇡⇡⇡
2	***Implement flexible pricing model***	*Product and service pricing must be flexible to facilitate better competition, fast res to changing market and support marketing campaigns*	★★★☆	↑↑⇡⇡
3	***Improve time-to-market***	*Improve processes from the idea to re to-market for our products and services to achieve readiness faster and cheaper*	★★★★	↑↑↑⇡
4	***Engage customers***	*Improve customer engagement for various channels and customer types*	★★☆☆	↑↑⇡⇡
5	…	…		

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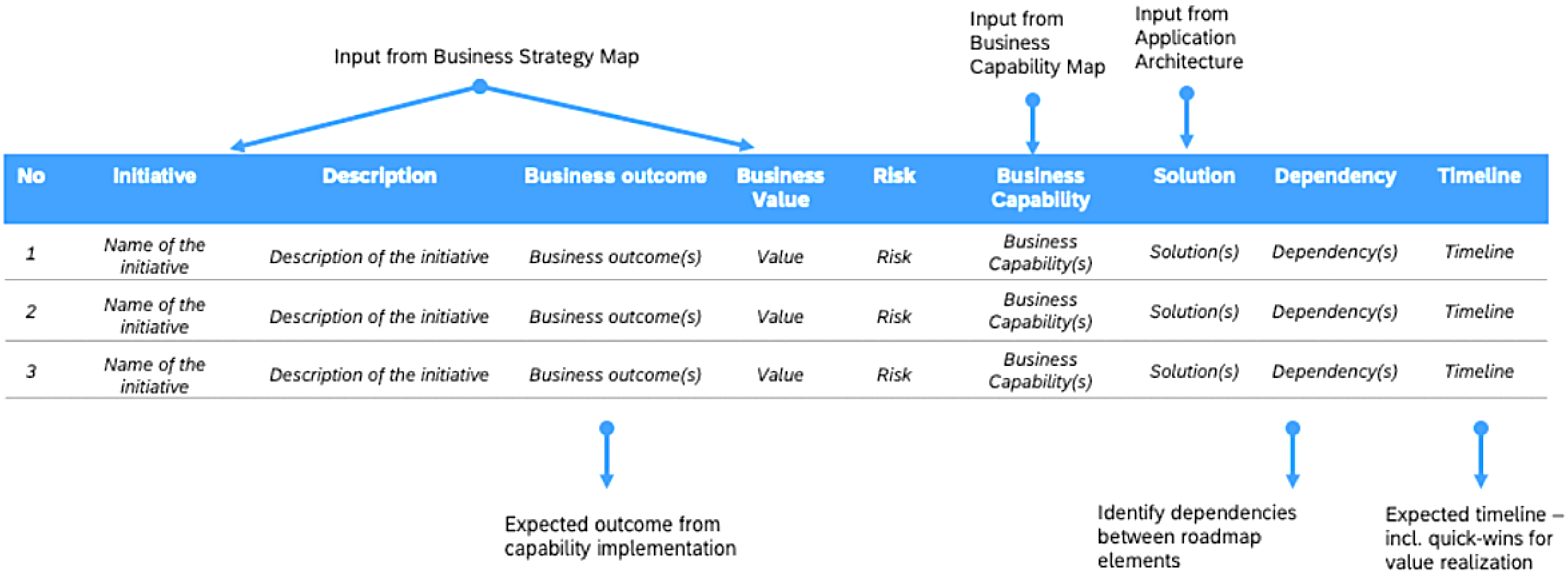
Roadmap “Construction Table”



Input from Business Strategy Map

Input from Business Capability Map

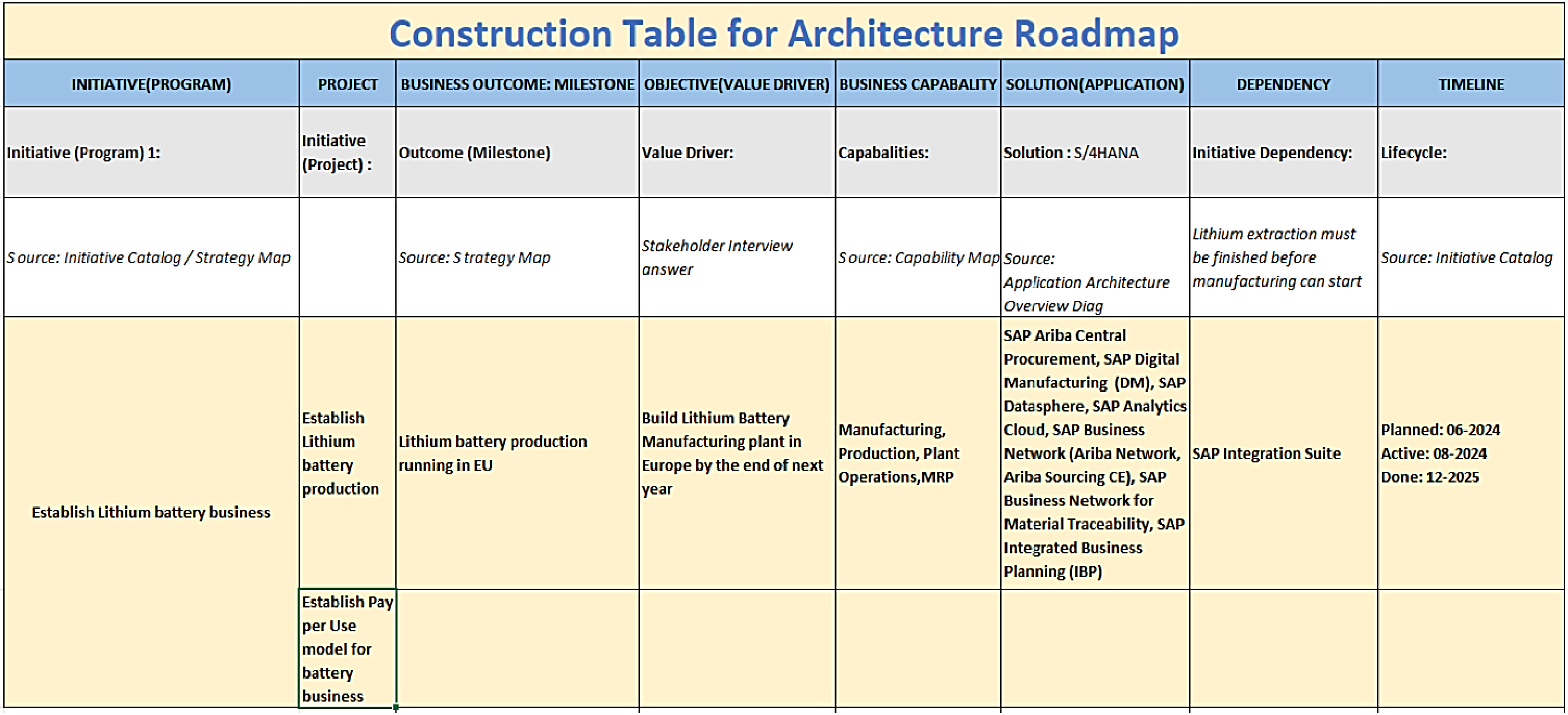
Input from Application Architecture

No	Initiative	Description	Business outcome	Business Value	Risk	Business Capability	Solution	Dependency	Timeline
1	*Name of the initiative*	*Description of the initiative*	*Business outcome(s)*	*Value*	*Risk*	*Business Capability(s)*	*Solution(s)*	*Dependency(s)*	*Timeline*
2	*Name of the initiative*	*Description of the initiative*	*Business outcome(s)*	*Value*	*Risk*	*Business Capability(s)*	*Solution(s)*	*Dependency(s)*	*Timeline*
3	*Name of the initiative*	*Description of the initiative*	*Business outcome(s)*	*Value*	*Risk*	*Business Capability(s)*	*Solution(s)*	*Dependency(s)*	*Timeline*

Expected outcome from capability implementation

Identify dependencies between roadmap elements

Expected timeline – incl. quick-wins for value realization



Construction Table for Architecture Roadmap

INITIATIVE(PROGRAM)	PROJECT	BUSINESS OUTCOME: MILESTONE	OBJECTIVE(VALUE DRIVER)	BUSINESS CAPABALITY	SOLUTION(APPLICATION)	DEPENDENCY	TIMELINE
Initiative (Program) 1:	**Initiative (Project) :**	**Outcome (Milestone)**	**Value Driver:**	**Capabalities:**	**Solution :** S/4HANA	**Initiative Dependency:**	**Lifecycle:**
Source: Initiative Catalog / Strategy Map		*Source: Strategy Map*	*Stakeholder Interview answer*	*Source: Capability Map*	*Source: Application Architecture Overview Diag*	*Lithium extraction must be finished before manufacturing can start*	*Source: Initiative Catalog*
Establish Lithium battery business	**Establish Lithium battery production**	**Lithium battery production running in EU**	**Build Lithium Battery Manufacturing plant in Europe by the end of next year**	**Manufacturing, Production, Plant Operations,MRP**	**SAP Ariba Central Procurement, SAP Digital Manufacturing (DM), SAP Datasphere, SAP Analytics Cloud, SAP Business Network (Ariba Network, Ariba Sourcing CE), SAP Business Network for Material Traceability, SAP Integrated Business Planning (IBP)**	**SAP Integration Suite**	**Planned: 06-2024** **Active: 08-2024** **Done: 12-2025**
	Establish Pay per Use model for battery business						

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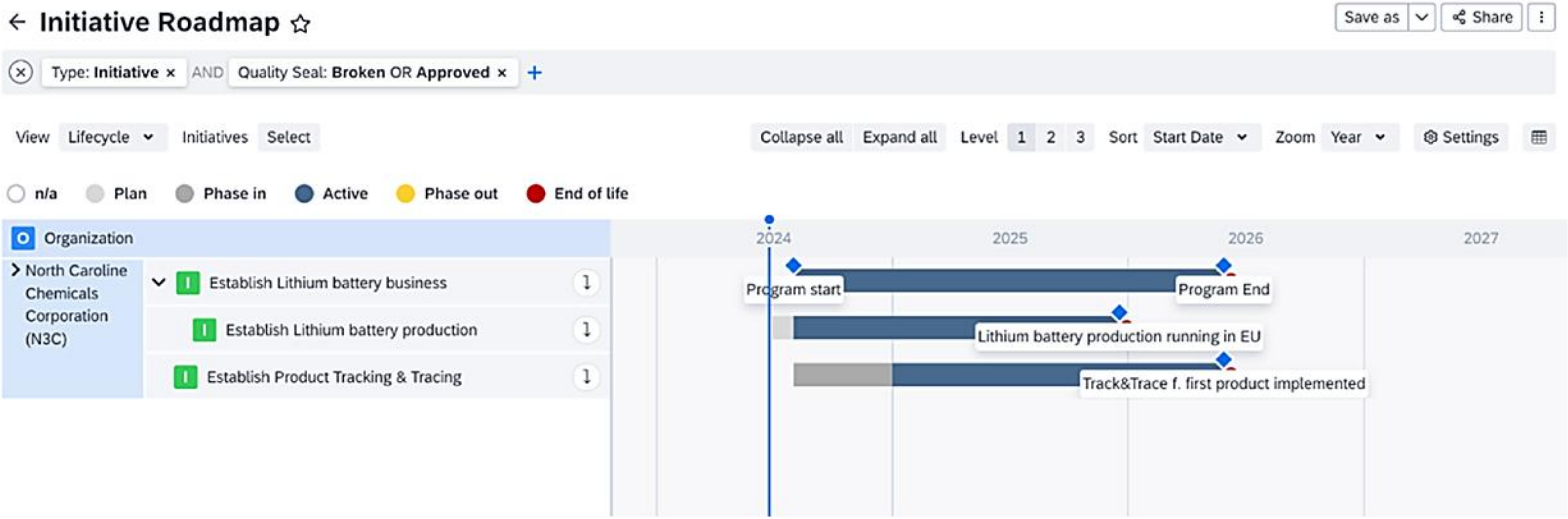
Objective: Build Business Architecture Roadmap

SAP LeanIX
Check Workspace



Initiative Roadmap ☆

Type: **Initiative** × AND Quality Seal: **Broken** OR **Approved** × +

View: Lifecycle
Sort: Start Date
Zoom: Year

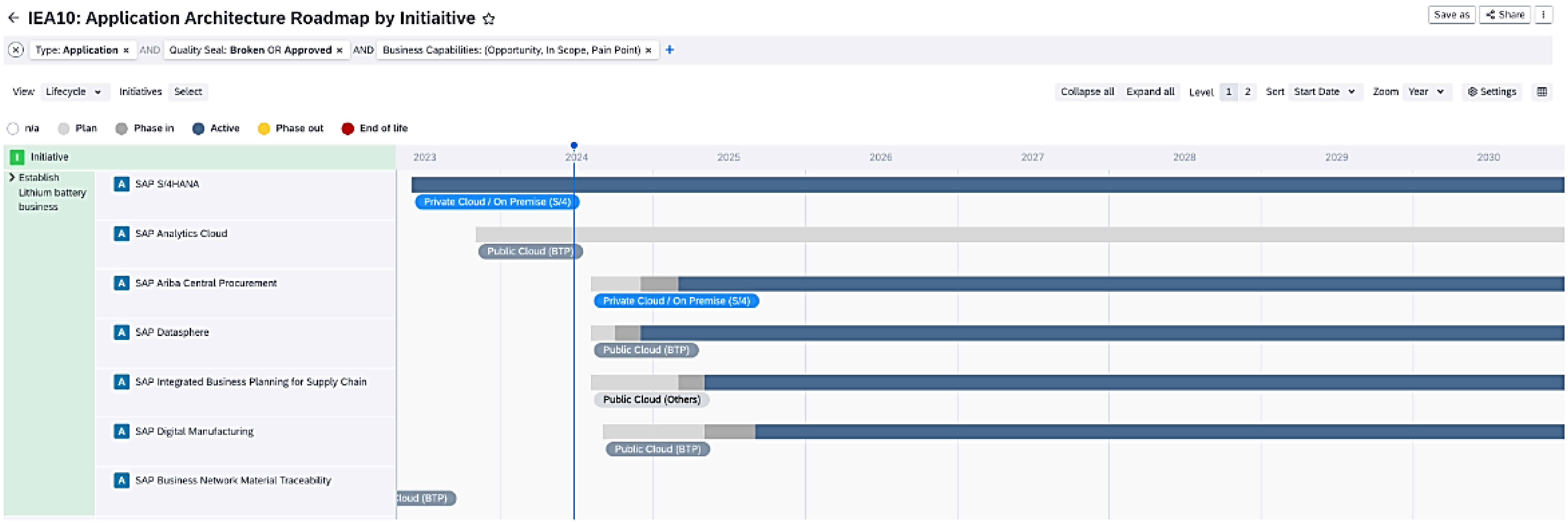
○ n/a ● Plan ● Phase in ● Active ● Phase out ● End of life

Organization: North Caroline Chemicals Corporation (N3C)
- Establish Lithium battery business — Program start, Program End
  - Establish Lithium battery production — Lithium battery production running in EU
- Establish Product Tracking & Tracing — Track&Trace f. first product implemented

Save as
Share
Initiatives
Select
Collapse all
Expand all
Level
1
2
3
Settings
2024
2025
2026
2027

Objective: Build Application Architecture Roadmap

SAP LeanIX
Check Workspace



IEA10: Application Architecture Roadmap by Initiaitive

Type: Application × AND Quality Seal: Broken OR Approved × AND Business Capabilities: (Opportunity, In Scope, Pain Point) ×

View: Lifecycle
Initiatives: Select
Level: 1 2
Sort: Start Date
Zoom: Year

○ n/a ● Plan ● Phase in ● Active ● Phase out ● End of life

Initiative	Application	Label
Establish Lithium battery business	SAP S/4HANA	Private Cloud / On Premise (S/4)
	SAP Analytics Cloud	Public Cloud (BTP)
	SAP Ariba Central Procurement	Private Cloud / On Premise (S/4)
	SAP Datasphere	Public Cloud (BTP)
	SAP Integrated Business Planning for Supply Chain	Public Cloud (Others)
	SAP Digital Manufacturing	Public Cloud (BTP)
	SAP Business Network Material Traceability	loud (BTP)

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Work Breakdown Structure: SAP ACTIVATE PHASES

	Discover	Prepare	Explore	Realize	Deploy	Run
	◆QG1	◆QG2	◆QG3	◆QG4	◆QG5	◆QG
Project Mgmt.		Project Initiation & Governance Project Kick-off & On-Boarding Project Standards, Infrastructure, and Solution	Plan Solution Validation Workshop Baseline Plan & Build Execution / Monitoring/Controlling of Results	Sprint Invitation, Execution, and Closing	Release Closing	
Customer Team Enablement		Project Team Enablement Project Training Strategy & Plan				
Technical Infrastructure & Architecture		Technical Requirements and Solution Plan Demo Environment Project Support Tools and System Setup Initial Hardware Sizing Proposal	Technical Solution Design Development Environment	QA Environment Setup Roles & Transport SAP Going Live Check Production Environment Failover Environment	SAP Going Live Check- Verification Session	Technical Operations Optimized
Application Design and Configuration	Strategic Planning Application Value and Scoping	Business Process Map Activate Solution	Fit-Gap Analysis Baseline Build Sign-Off Backlog Prioritization User Access and Security	Detailed Design-Core Configuration and Documentation Enhancement Development Business Process Procedure		
Integration		Interface Inventory				
Testing		Prepare Testing Policy	Testing Strategy	System and Performance Test Approved Integration Test Approved User Acceptance Test Scenario Test	Approved Technical Systems Test	
System & Data Migration	Trial System Provisioning	Data Migration Approach & Strategy	Legacy Data Migration	QA Environment Data Load Preliminary Cutover Plan	Production Cutover Production Support After Go Live	
Transition to Operations				System User Roles and Authorization Administration Technical Operations and Handover Plan	Organizational & Production Check Setup Control Center	ALM Optimized
Solution Adoption	Stakeholder Identification Value Discovery	Value Determination Organizational Change Management Roadmap	Stakeholder Analysis Communication Plan Change Impact Analysis End User Training Value Realization	Organizational Alignment Educational Readiness Review Knowledge Transfer End User Training Delivery Enabled	Pre Go-Live End-User Training Delivery Post Go-Live End-User Training	Change Control Management Optimized Value Management

◆ Quality Gates ▬ Task / Activity

Work Breakdown Structure: SAP ACTIVATE PHASES

DISCOVER

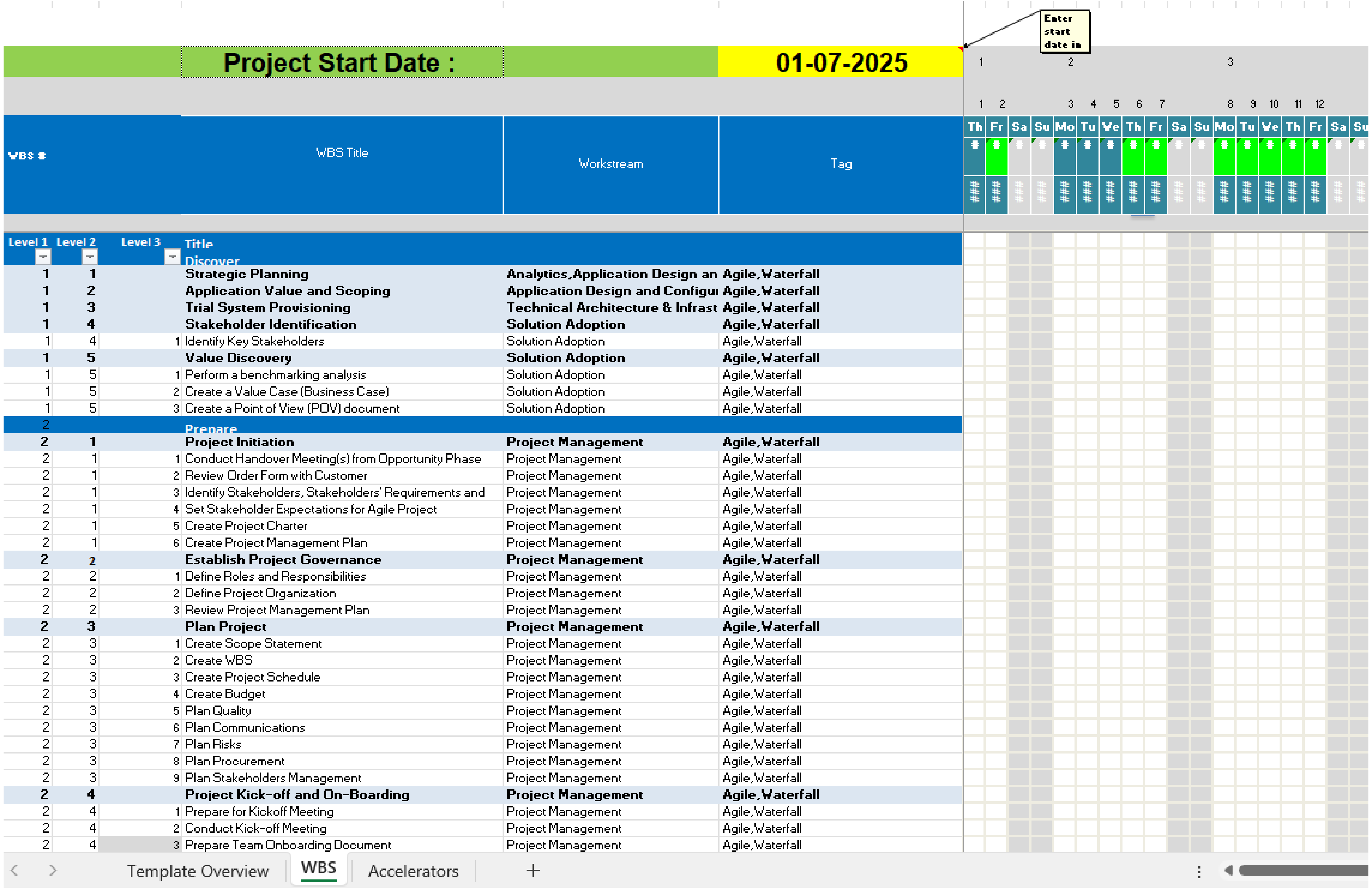
PREPARE

EXPLORE

REALIZE

DEPLOY

RUN



Project Start Date : **01-07-2025**

WBS #	WBS Title			Workstream	Tag
Level 1	**Level 2**	**Level 3**	**Title**		
			Discover		
1	**1**		**Strategic Planning**	**Analytics,Application Design an**	**Agile,Waterfall**
1	**2**		**Application Value and Scoping**	**Application Design and Configu**	**Agile,Waterfall**
1	**3**		**Trial System Provisioning**	**Technical Architecture & Infrast**	**Agile,Waterfall**
1	**4**		**Stakeholder Identification**	**Solution Adoption**	**Agile,Waterfall**
1	4	1	Identify Key Stakeholders	Solution Adoption	Agile,Waterfall
1	**5**		**Value Discovery**	**Solution Adoption**	**Agile,Waterfall**
1	5	1	Perform a benchmarking analysis	Solution Adoption	Agile,Waterfall
1	5	2	Create a Value Case (Business Case)	Solution Adoption	Agile,Waterfall
1	5	3	Create a Point of View (POV) document	Solution Adoption	Agile,Waterfall
2			**Prepare**		
2	**1**		**Project Initiation**	**Project Management**	**Agile,Waterfall**
2	1	1	Conduct Handover Meeting(s) from Opportunity Phase	Project Management	Agile,Waterfall
2	1	2	Review Order Form with Customer	Project Management	Agile,Waterfall
2	1	3	Identify Stakeholders, Stakeholders' Requirements and	Project Management	Agile,Waterfall
2	1	4	Set Stakeholder Expectations for Agile Project	Project Management	Agile,Waterfall
2	1	5	Create Project Charter	Project Management	Agile,Waterfall
2	1	6	Create Project Management Plan	Project Management	Agile,Waterfall
2	**2**		**Establish Project Governance**	**Project Management**	**Agile,Waterfall**
2	2	1	Define Roles and Responsibilities	Project Management	Agile,Waterfall
2	2	2	Define Project Organization	Project Management	Agile,Waterfall
2	2	3	Review Project Management Plan	Project Management	Agile,Waterfall
2	**3**		**Plan Project**	**Project Management**	**Agile,Waterfall**
2	3	1	Create Scope Statement	Project Management	Agile,Waterfall
2	3	2	Create WBS	Project Management	Agile,Waterfall
2	3	3	Create Project Schedule	Project Management	Agile,Waterfall
2	3	4	Create Budget	Project Management	Agile,Waterfall
2	3	5	Plan Quality	Project Management	Agile,Waterfall
2	3	6	Plan Communications	Project Management	Agile,Waterfall
2	3	7	Plan Risks	Project Management	Agile,Waterfall
2	3	8	Plan Procurement	Project Management	Agile,Waterfall
2	3	9	Plan Stakeholders Management	Project Management	Agile,Waterfall
2	**4**		**Project Kick-off and On-Boarding**	**Project Management**	**Agile,Waterfall**
2	4	1	Prepare for Kickoff Meeting	Project Management	Agile,Waterfall
2	4	2	Conduct Kick-off Meeting	Project Management	Agile,Waterfall
2	4	3	Prepare Team Onboarding Document	Project Management	Agile,Waterfall

Links to Resources

TOGAF Standard:
https://pubs.opengroup.org/togaf-standard/

Signavio Process Explorer:
https://url.sap/wyuh7q

SAP Business Accelerator Hub:
https://api.sap.com/

SAP Trust Center:
https://www.sap.com/about/trust-center/cloud-service-status.html

SAP Discovery Center:
https://discovery-center.cloud.sap/index.html

ISA-M:
https://community.sap.com/t5/technology-blogs-by-sap/integration-solution-advisory-methodology-isa-m-define-integration/ba-p/13397214

Exam Preparation

Clean Core for SAP S/4HANA Cloud:
https://learning.sap.com/courses/sap-enterprise-architects

Exam Guide:
https://cdn.training.sap.com/cdn/pdf/P_SAPEA_2023_Exam_Guide.pdf

Schedule your Exam:
https://learning.sap.com/certifications/sap-certified-professional-sap-enterprise-architect

THANKYOU

- Continue reading and understand the learning journey
- Read the case study

  Contact@Renotron.co

June, 2025

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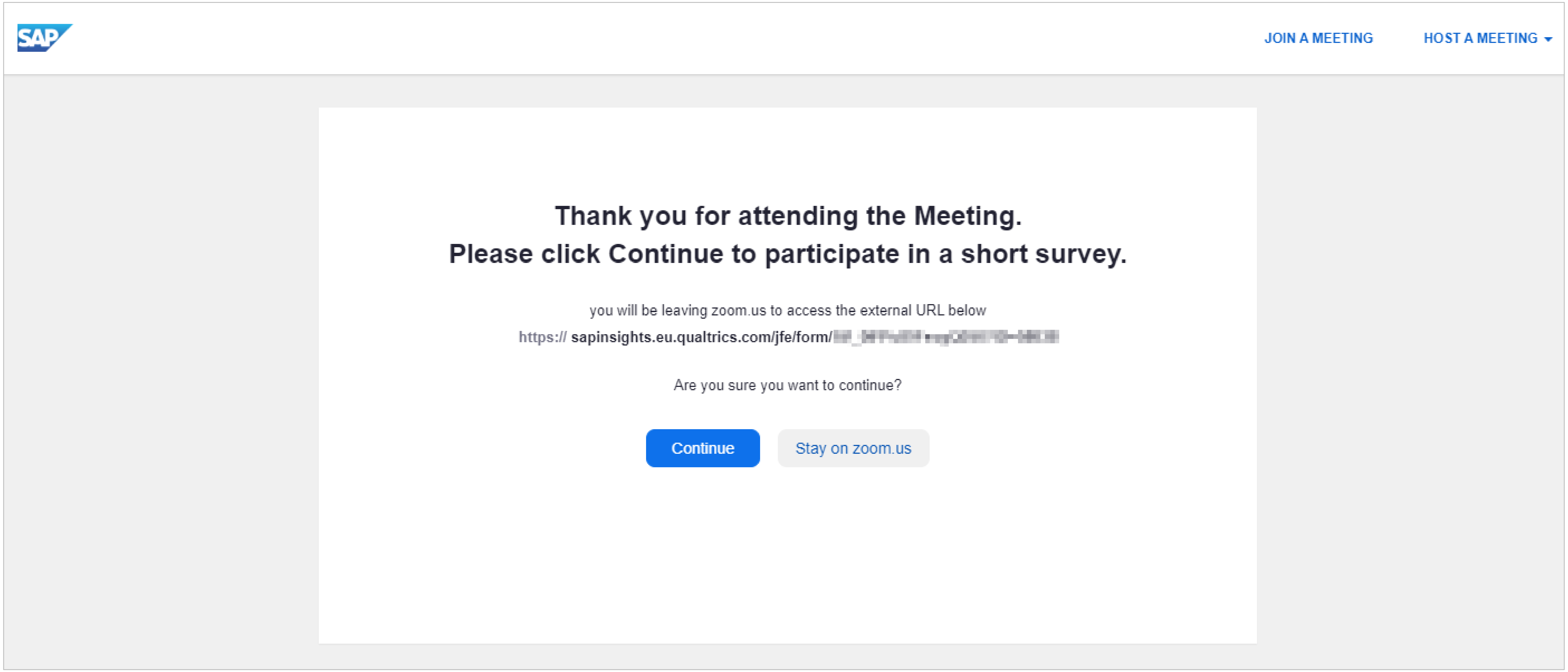
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HOST A MEETING

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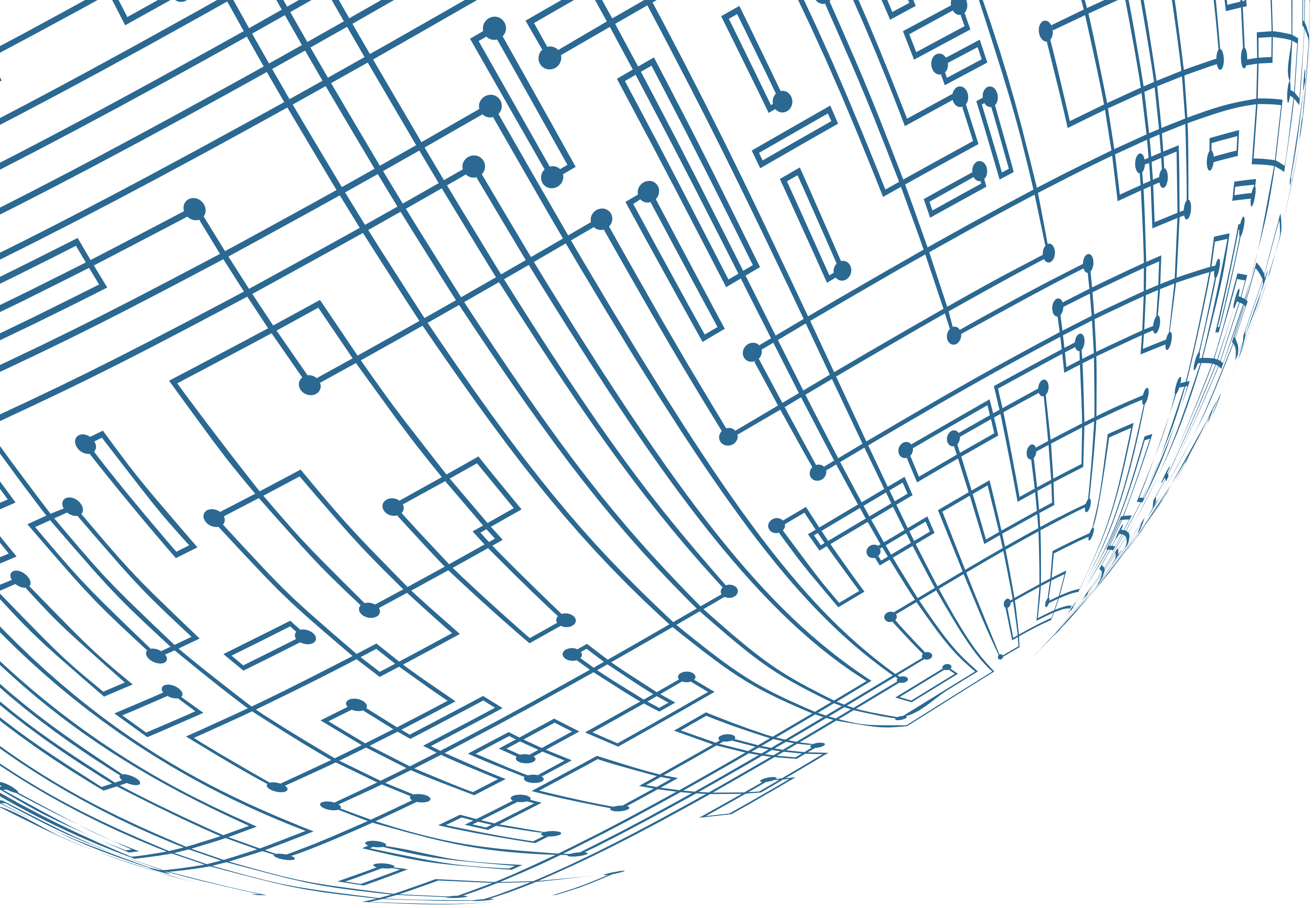

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