



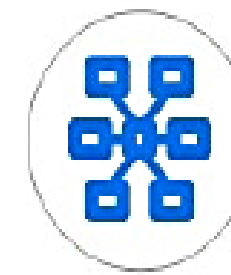
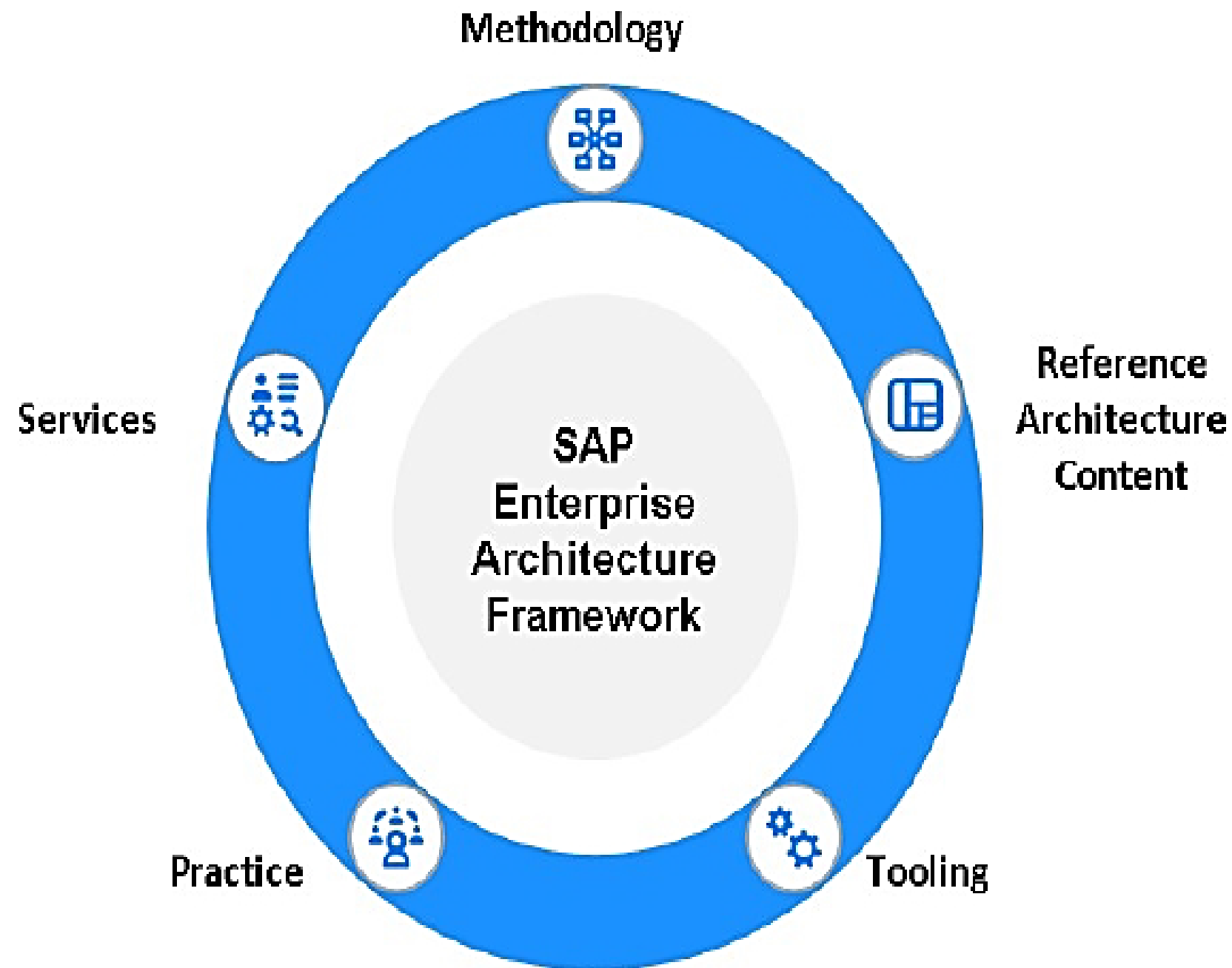
# Apply the SAP Enterprise Architecture Framework Along an Architecture Development Cycle

SAP  
Nov 2025

Public



# SAP Enterprise Architecture Framework



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.

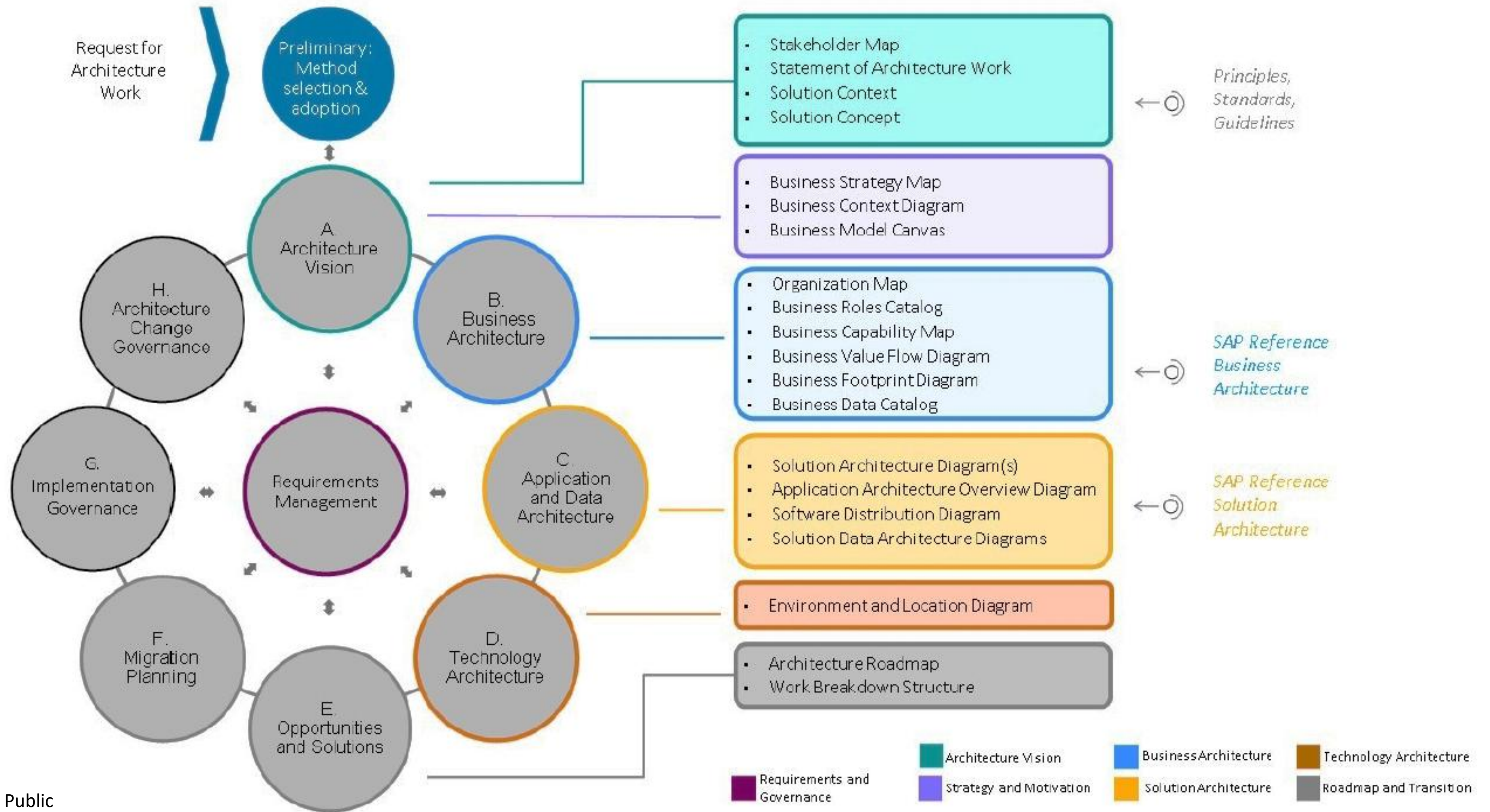


The **EA Practice** is the organizational implementation of EA. It operates enterprise architecture within the organization, by adopting the EA methodology and establishing governance processes incl. change management process for the framework.



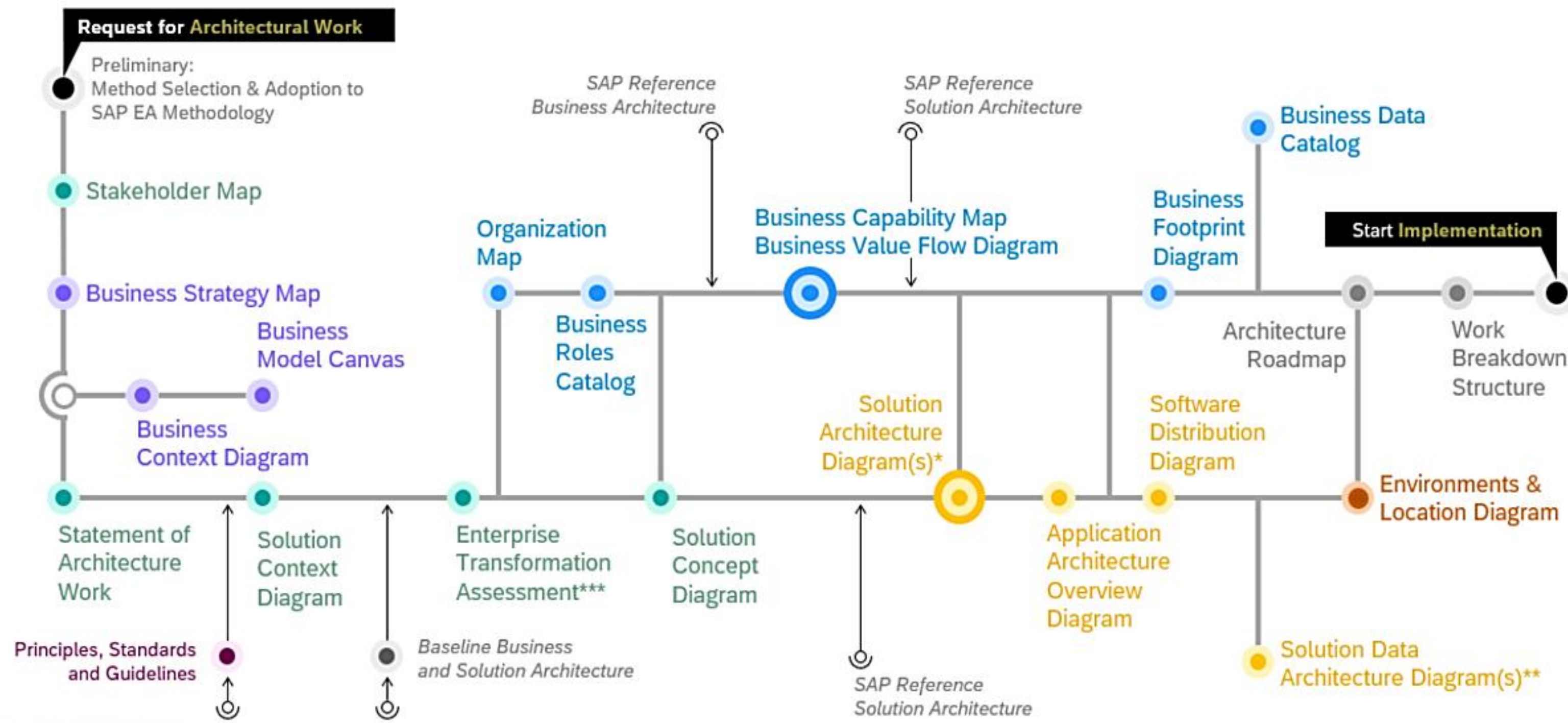
EA **Services** are supporting transformations by applying the methodology and using EA tooling and reference architecture content. Services can be sourced from SAP, other external providers, or provided by the practice. They can include enablement of different EA target roles in customers' and partners'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







# SAP EA Methodology – Metro Map



Requirements Management  
Architectural Decisions  
Risk Analysis  
Executive Summary

SAP Public

■ 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 Intelligent Enterprise Architecture (IEA10) - Training

V2.0

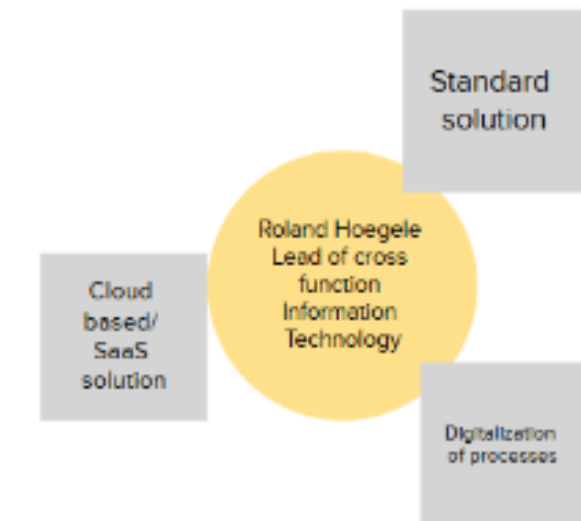
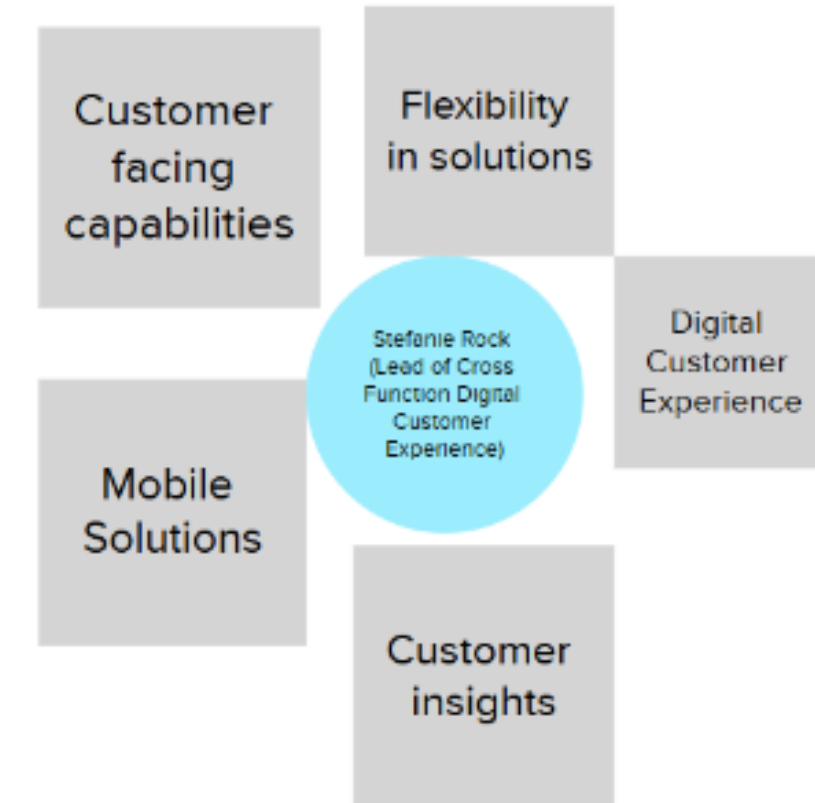
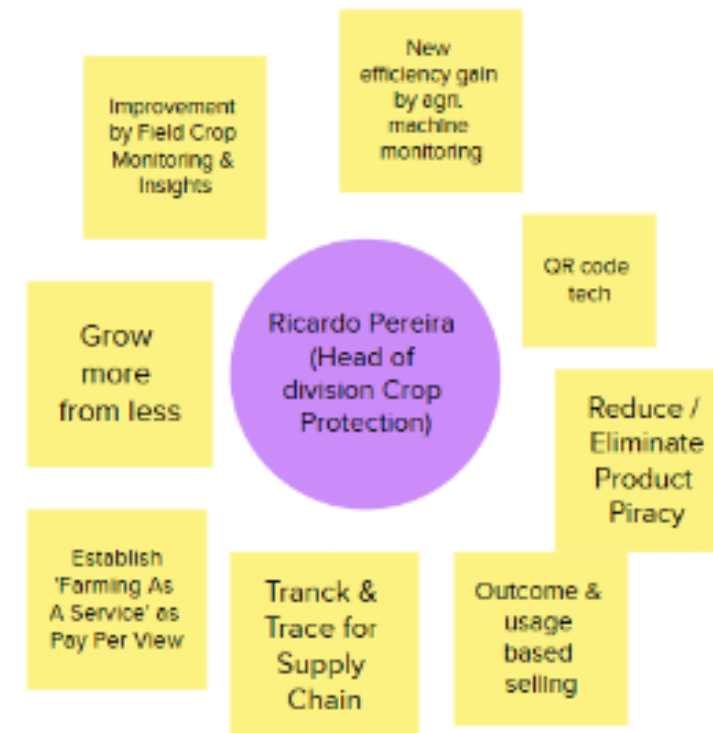
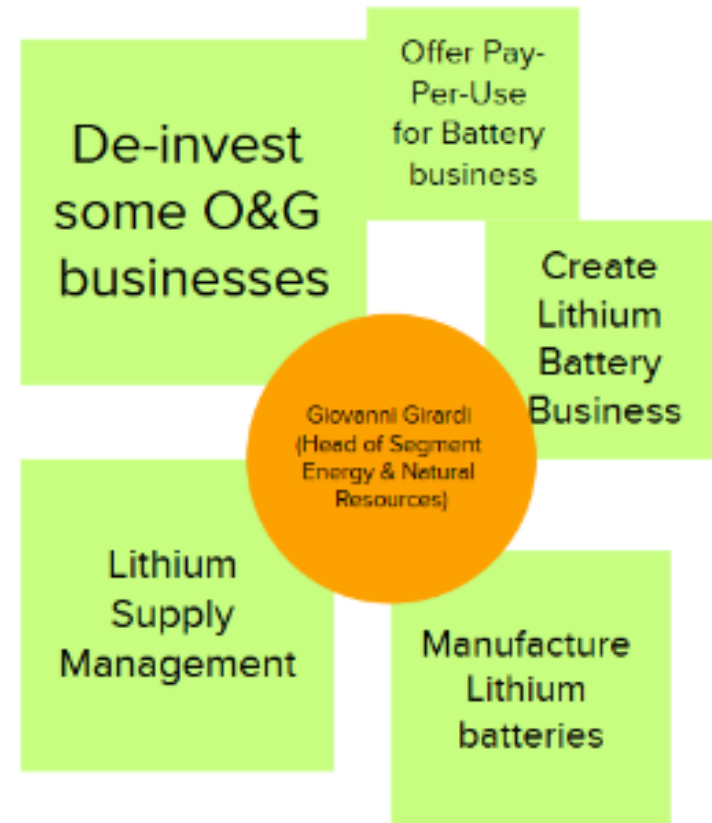
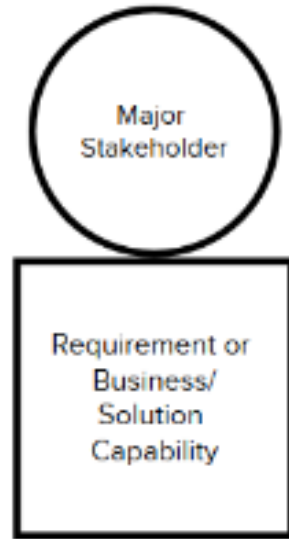
Customer Case Study: N3C

INTERNAL



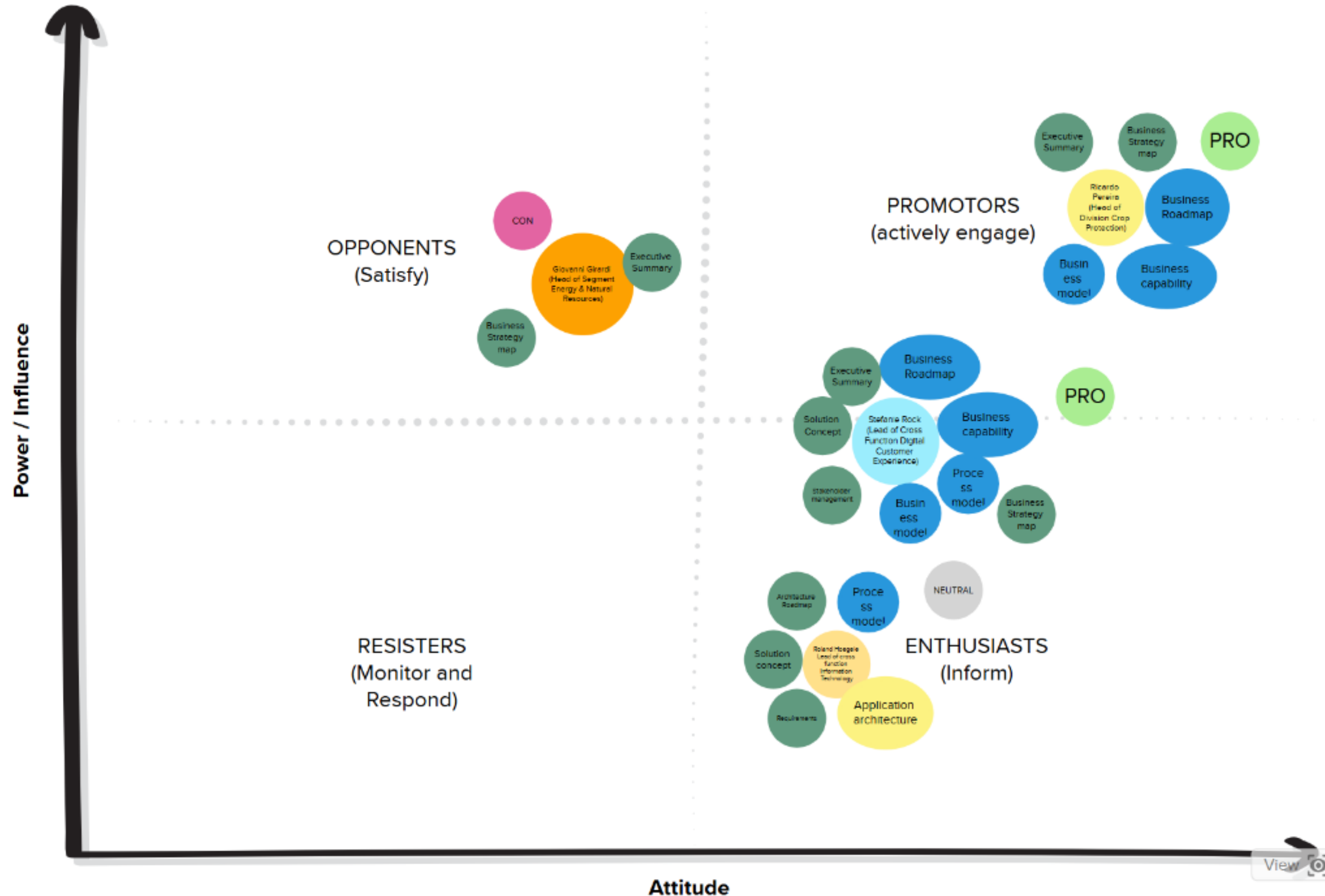
Public

# Functional & Non-Functional

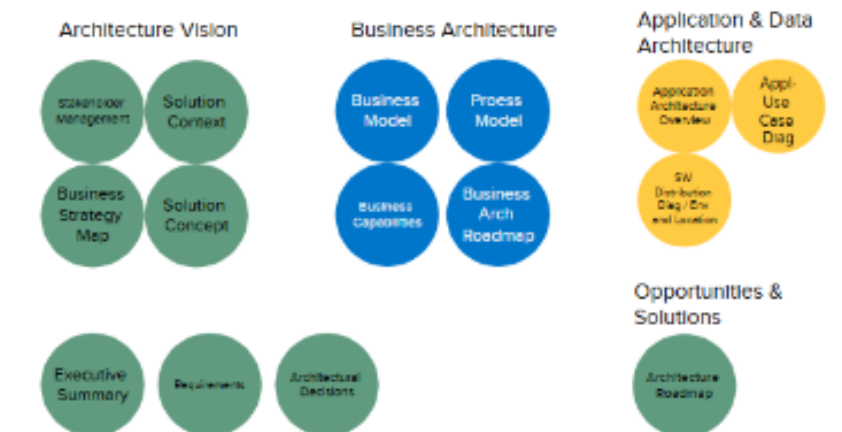




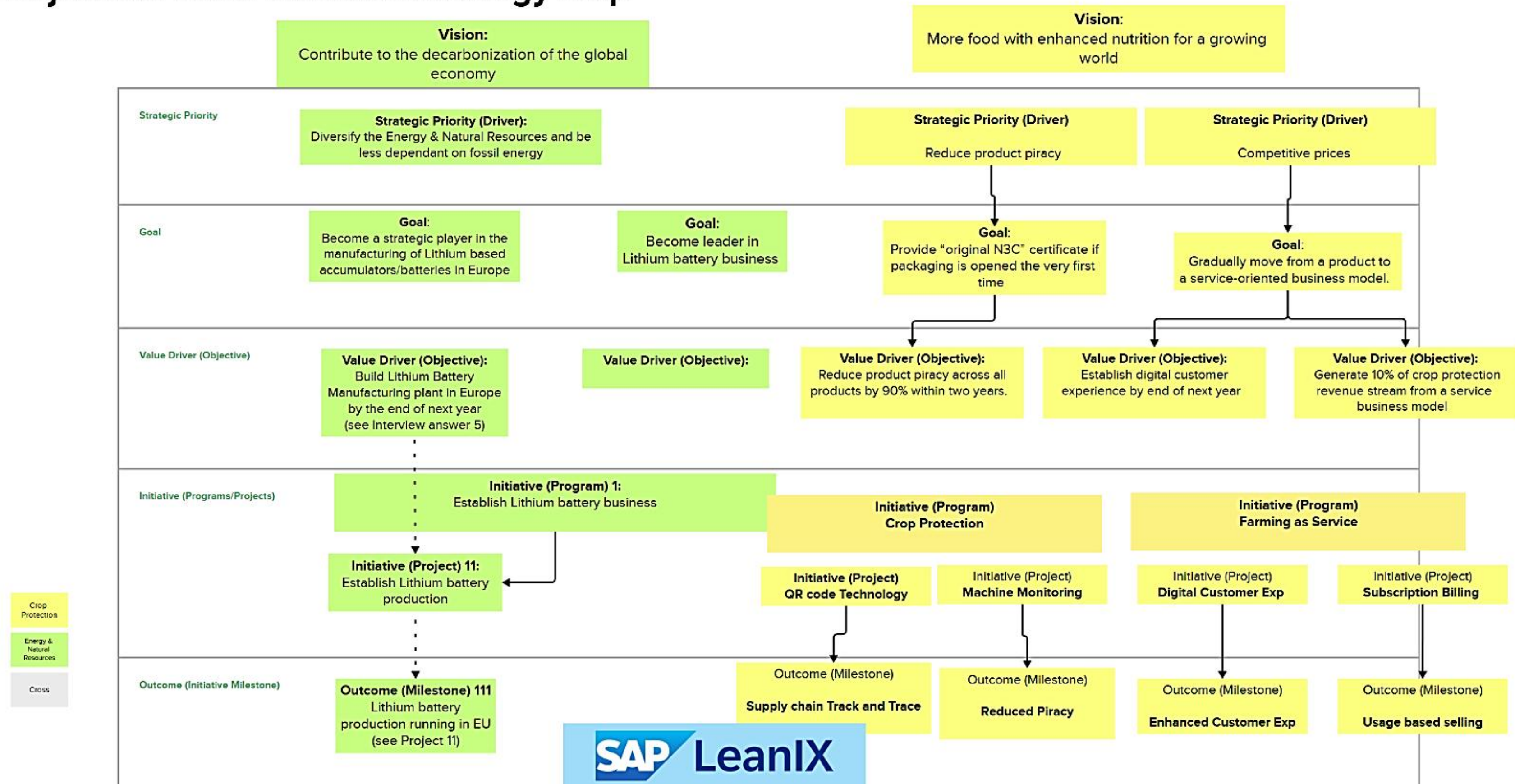
# Stakeholder Engagement Map



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

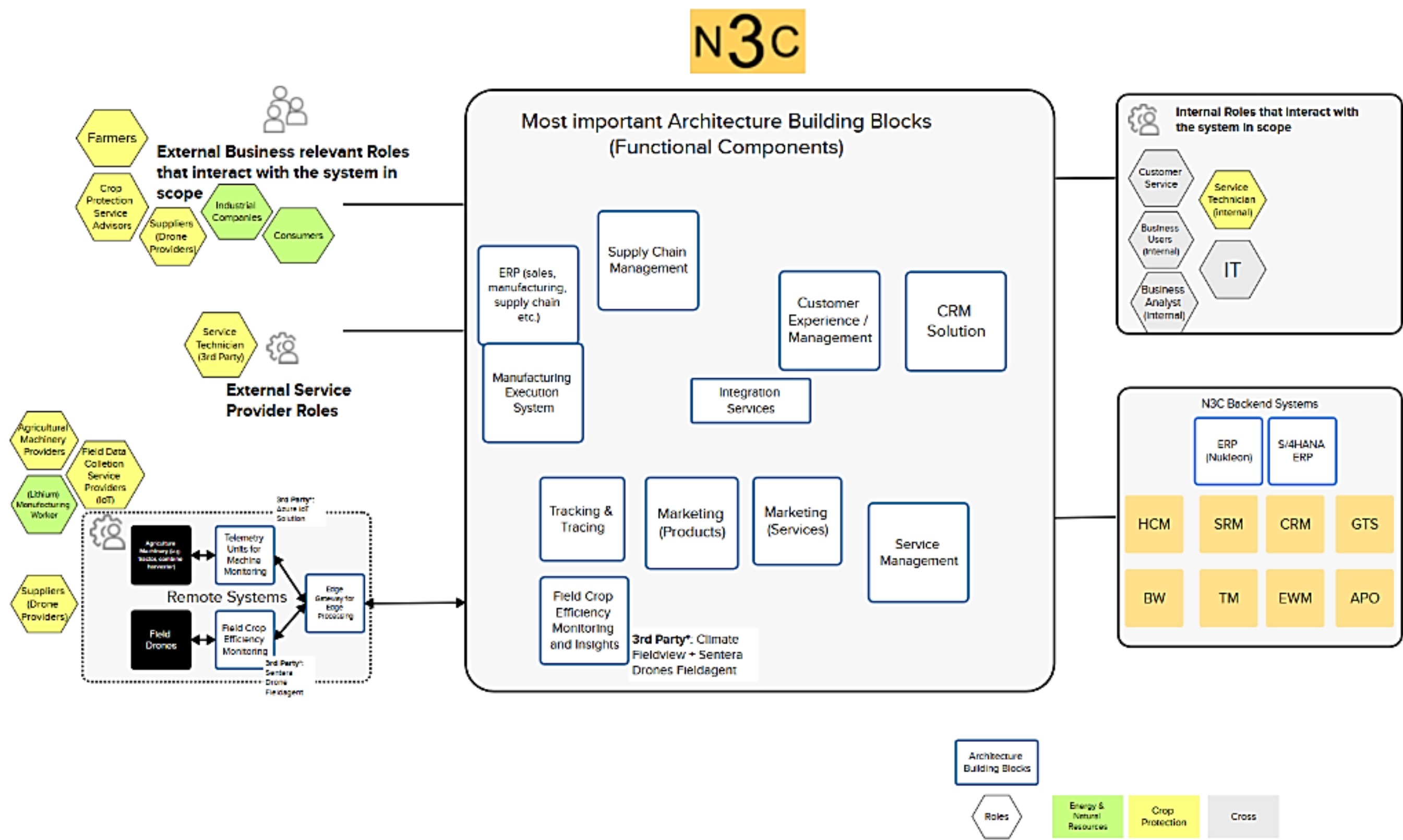


# Objective: Build Business Strategy Map

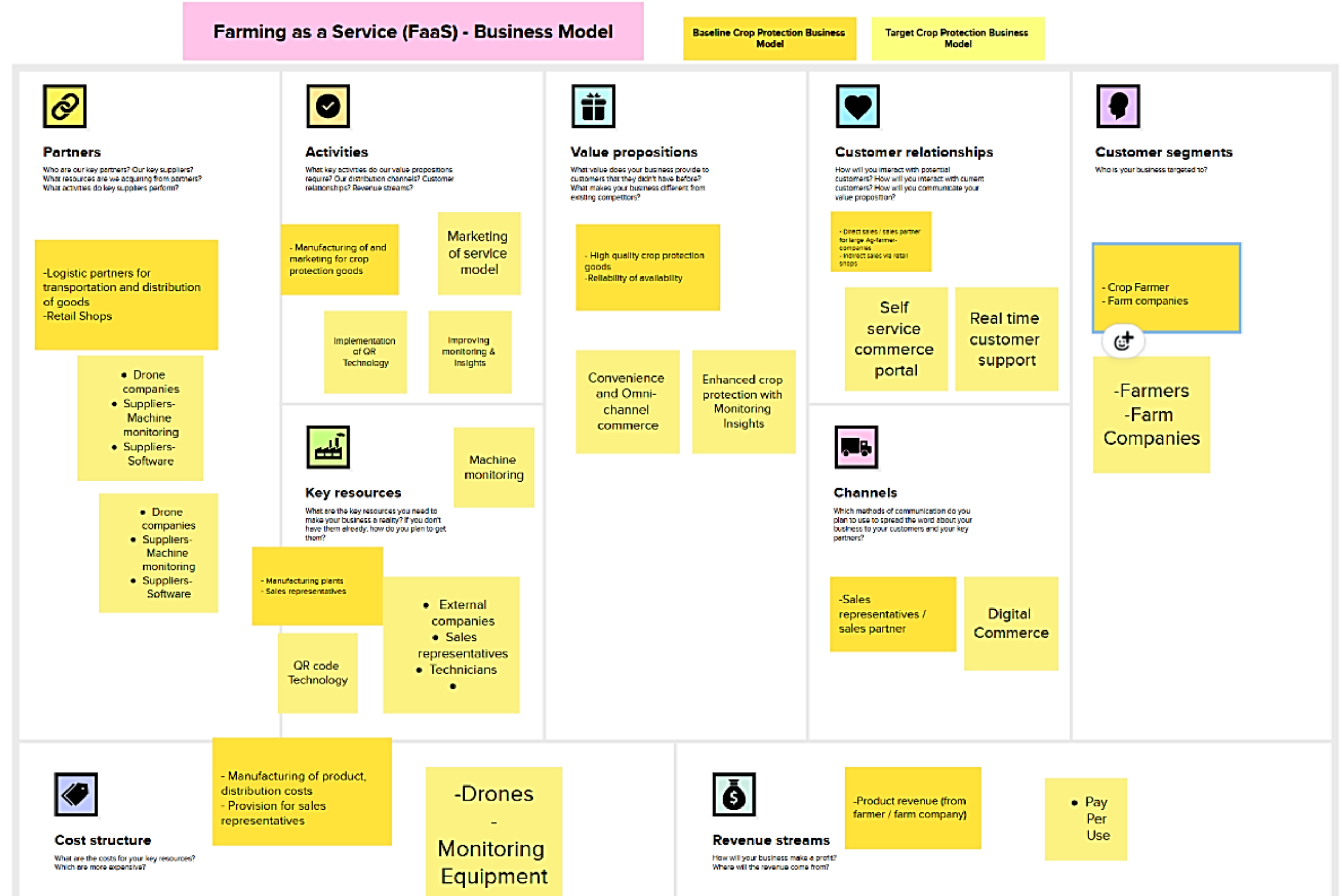




Objective: Build Solution Concept



# Objective: Build Business Model Canvas





# 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
- Transportation of Gas
- Creation of olefins 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

- Knowledge for exploration
- Service Platform

(Lithium) Manufacturing Worker



## 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)



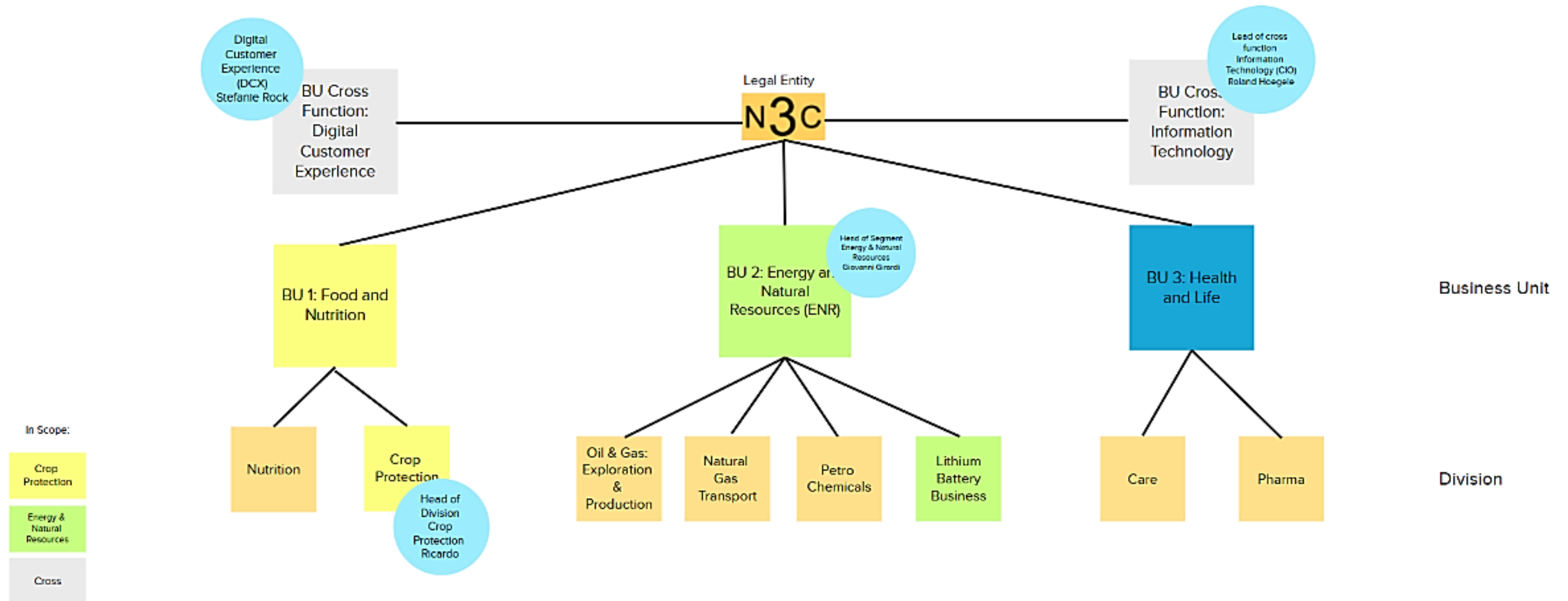
## Revenue streams

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)

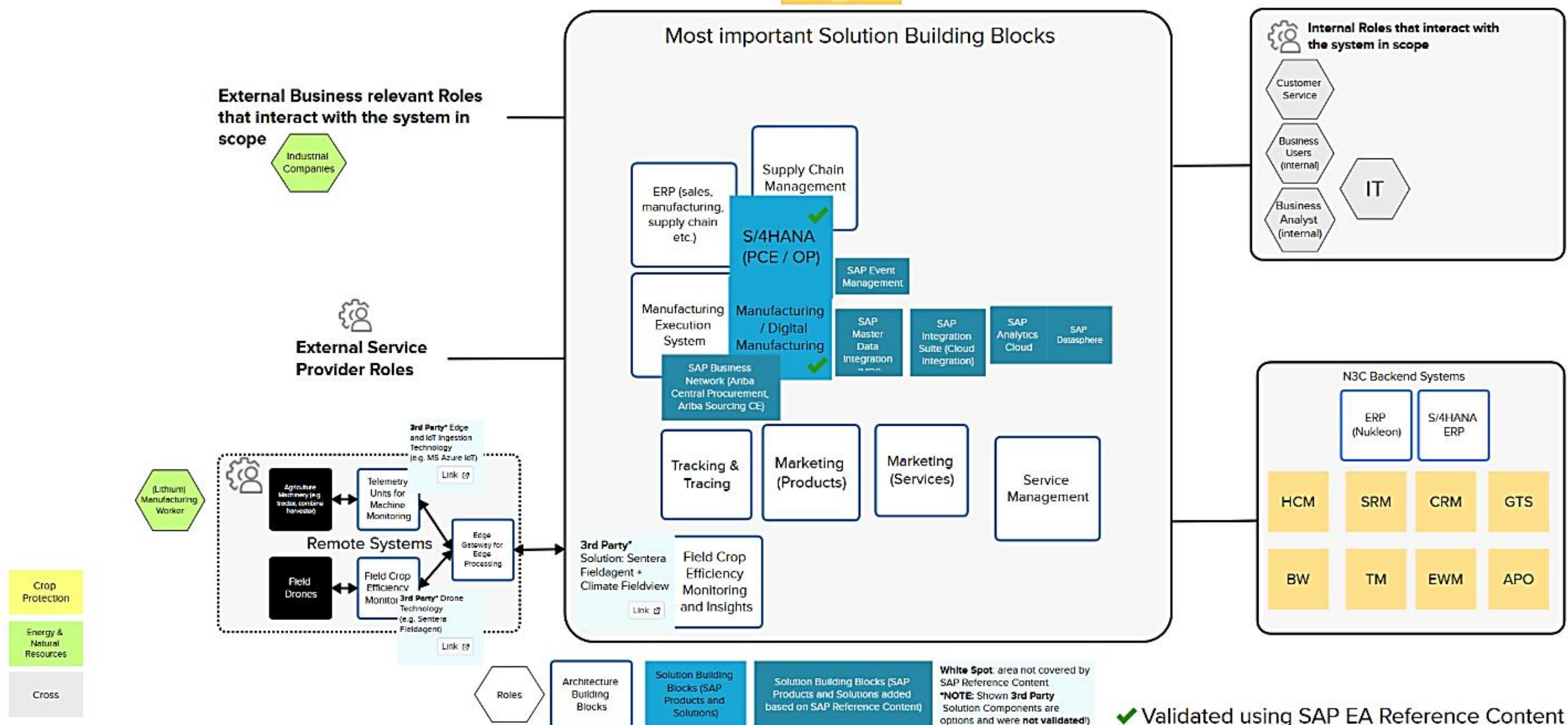
# Objective: Build Organization Map



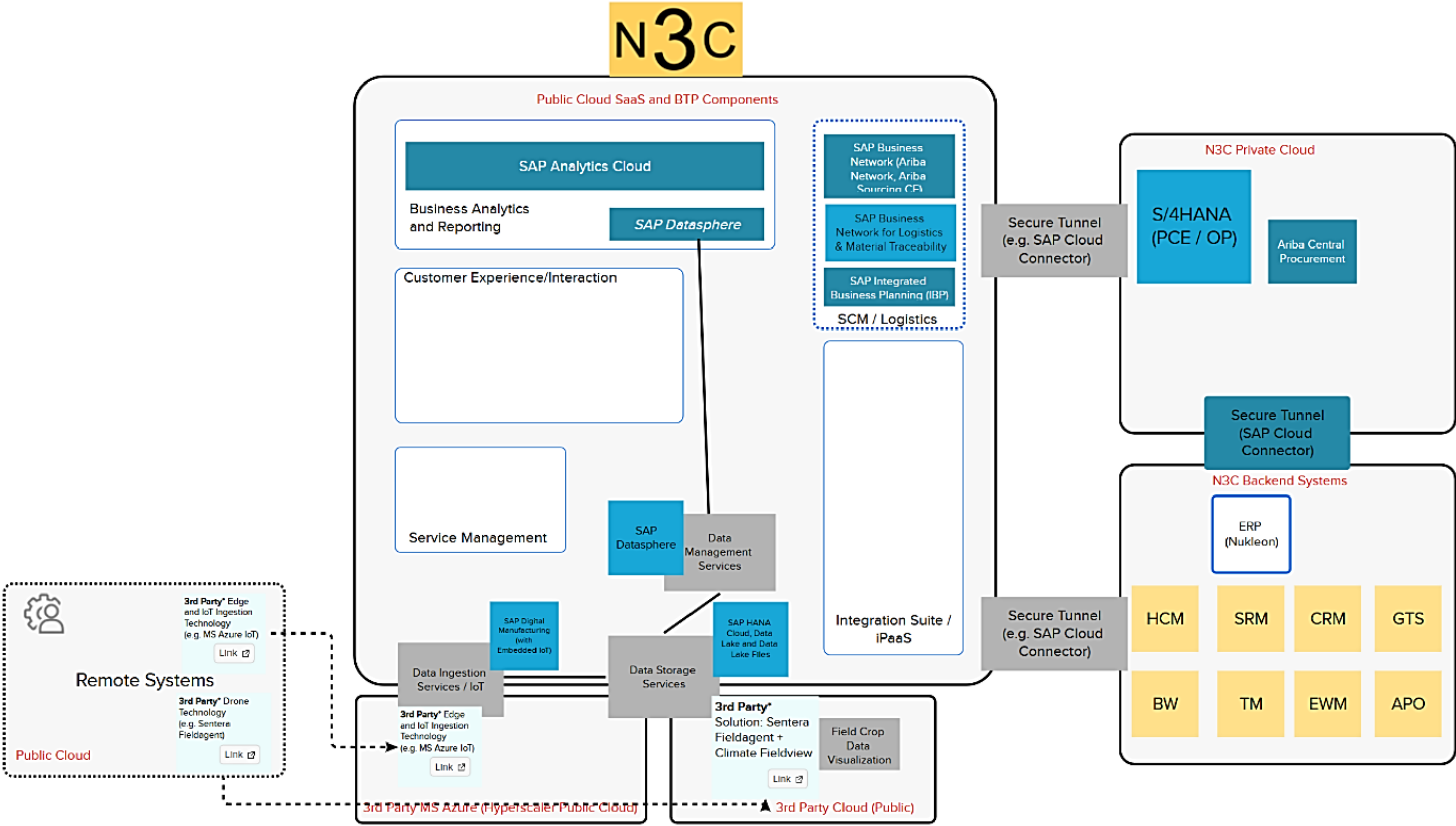


# Solution / Product Mapping

N3C

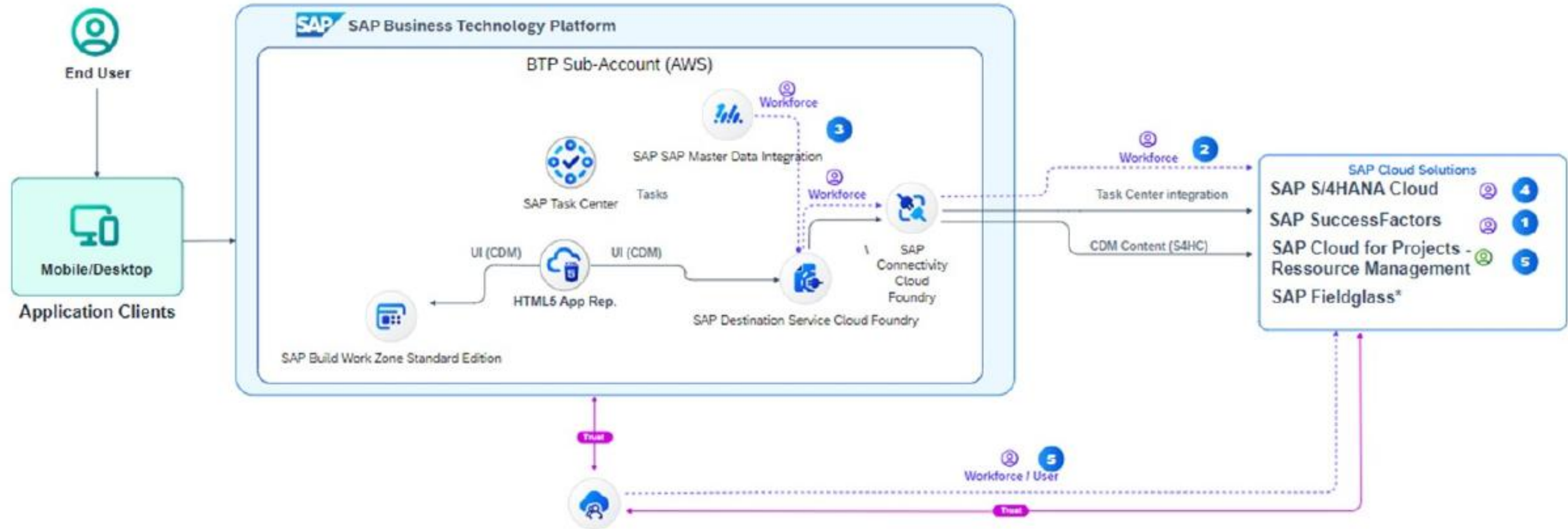


# Objective: Build Software Distribution Diagram

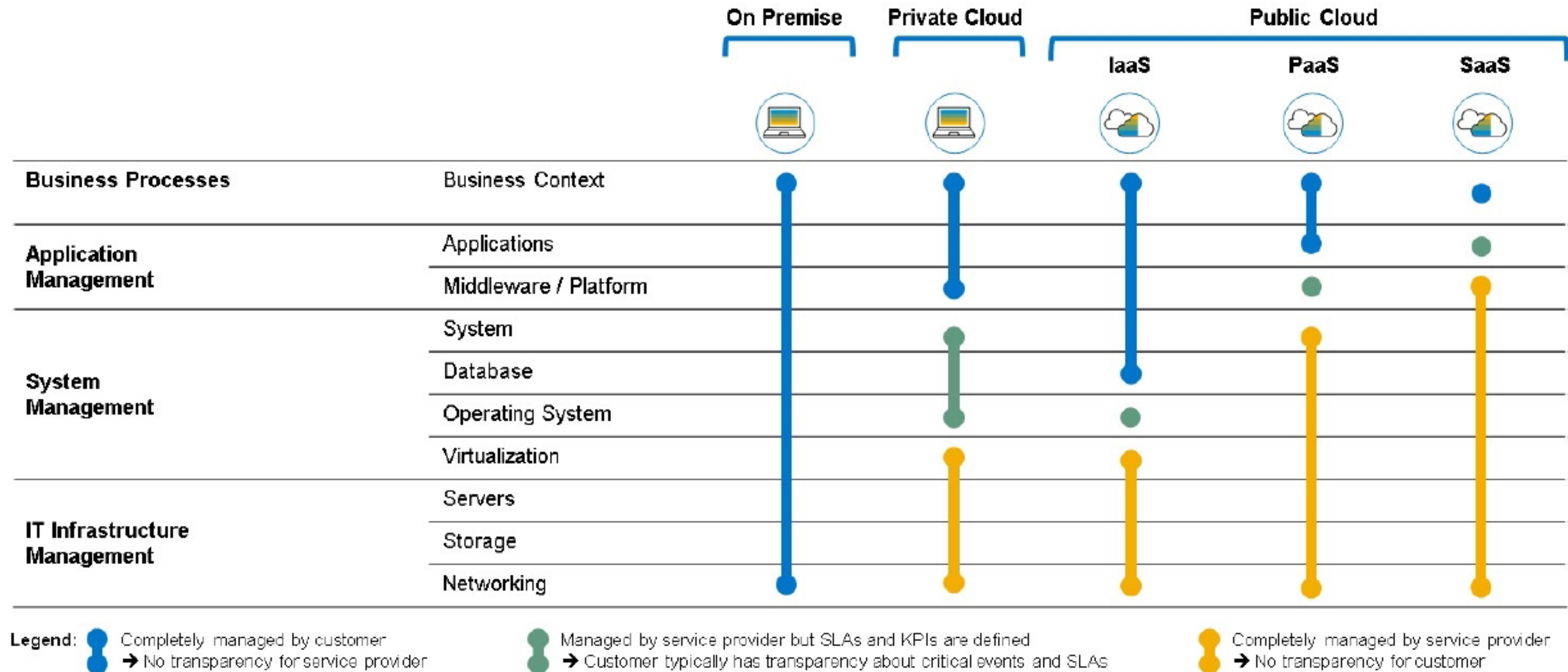




# Solution Flow Example

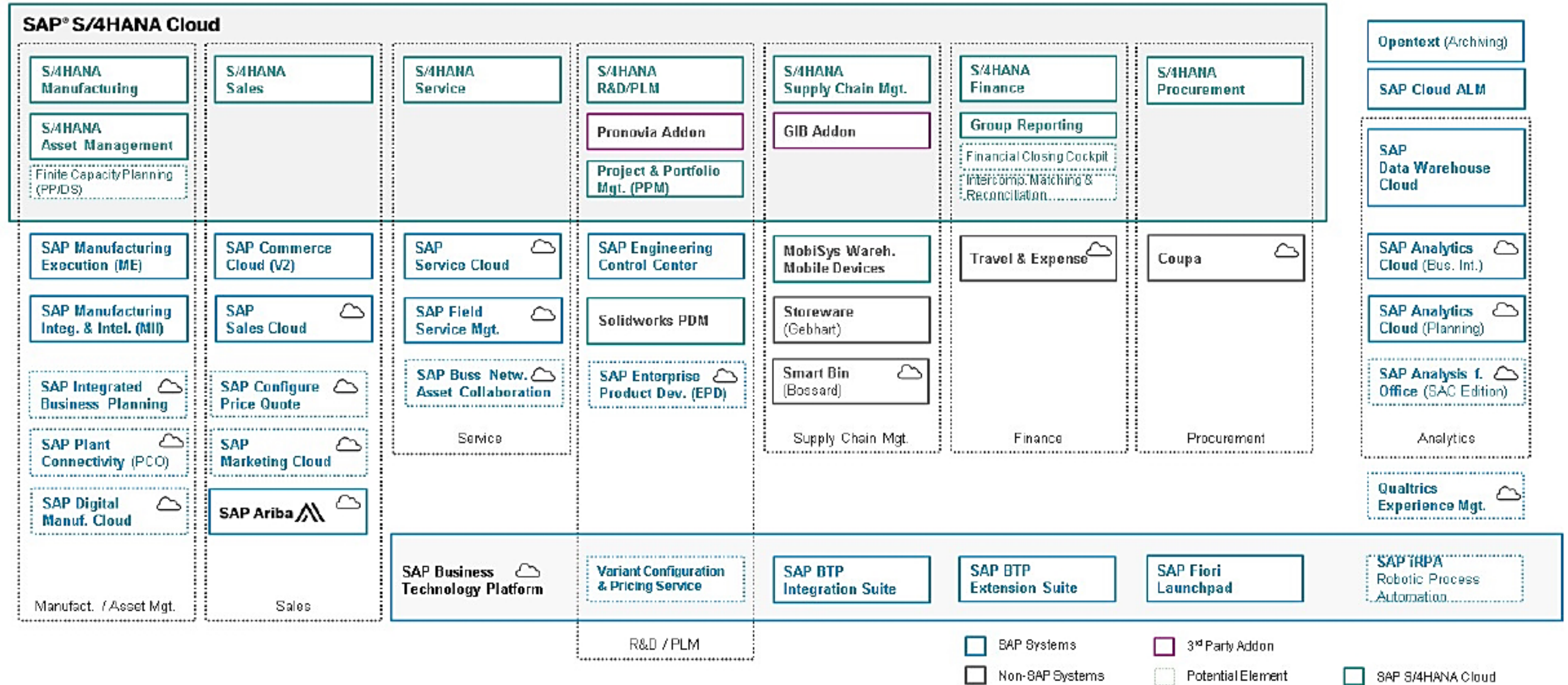


# Comparison of the Common Service Models









# Application Architecture



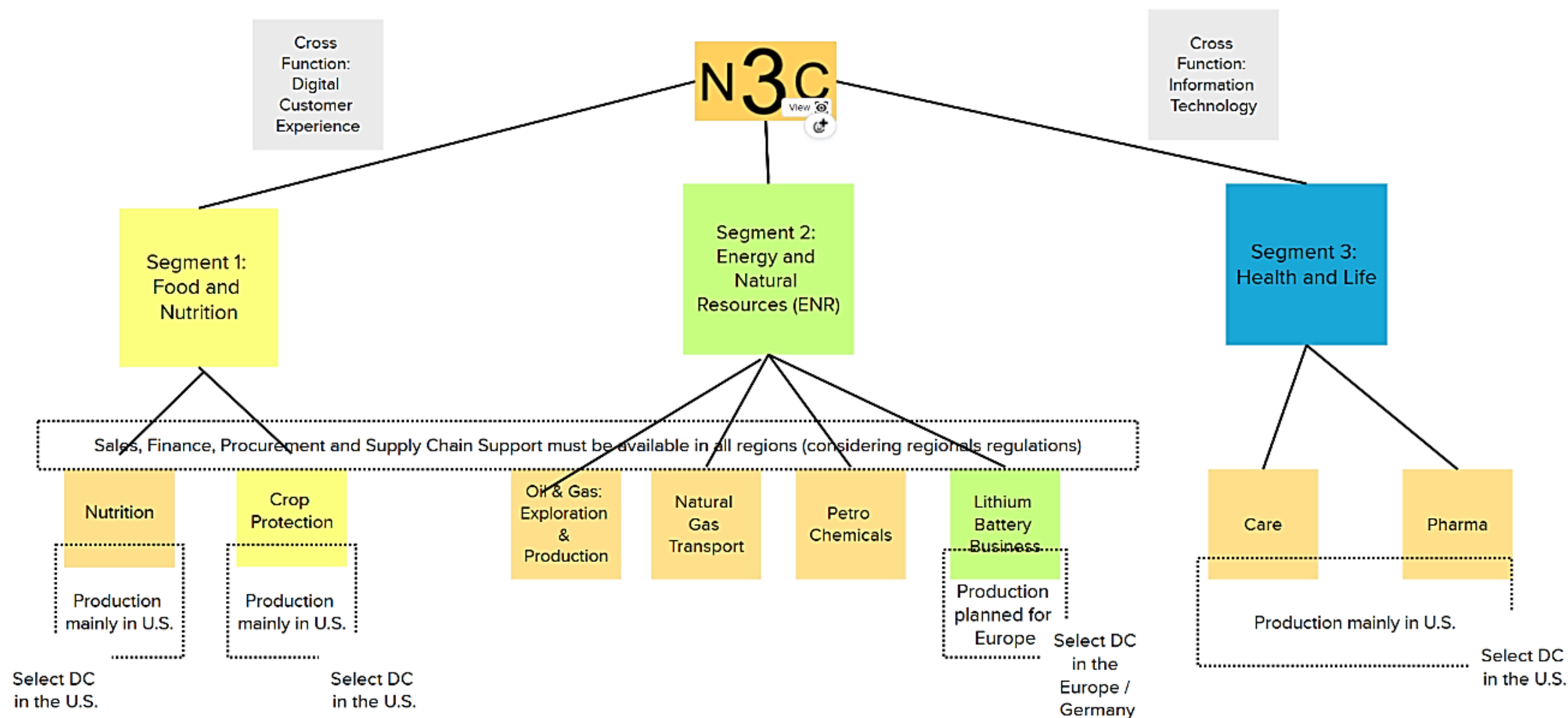
# ISA-M: Use Cases for Enterprise Architects

1	2	3	4
<b>Assess your Integration Strategy</b> 	<b>Design your Hybrid Integration Platform</b> 	<b>Define Integration Best Practices</b> 	<b>Enable a Practice of Empowerment</b> 
Document/review your integration architecture	Map use case patterns to integration technologies	Define solution architecture blueprints	Democratize integration delivery
Scoping of focus areas e.g. future building blocks	Derive integration guidelines for your organization	Add decision criteria and key characteristics	Define areas for self service integration
Use-case driven approach (technology-agnostic)	Reflect customer context	Establish integration as recognized discipline	Establish a shared developer community

**SAP Integration Solution Advisory Methodology**



# Objective: Re-use Organization Map for Location Identification



**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.



Public

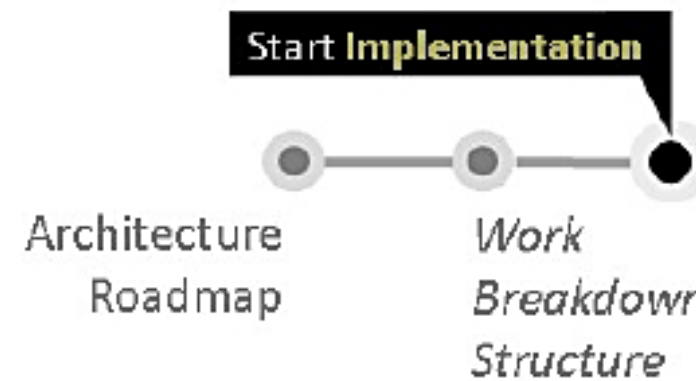


# Opportunities and Solutions - Architecture Roadmap

**Architecture Roadmap** may reflect different aspects.

A **Business Architecture Roadmap** is a visual representation of business outcomes across time horizons and functional clusters.

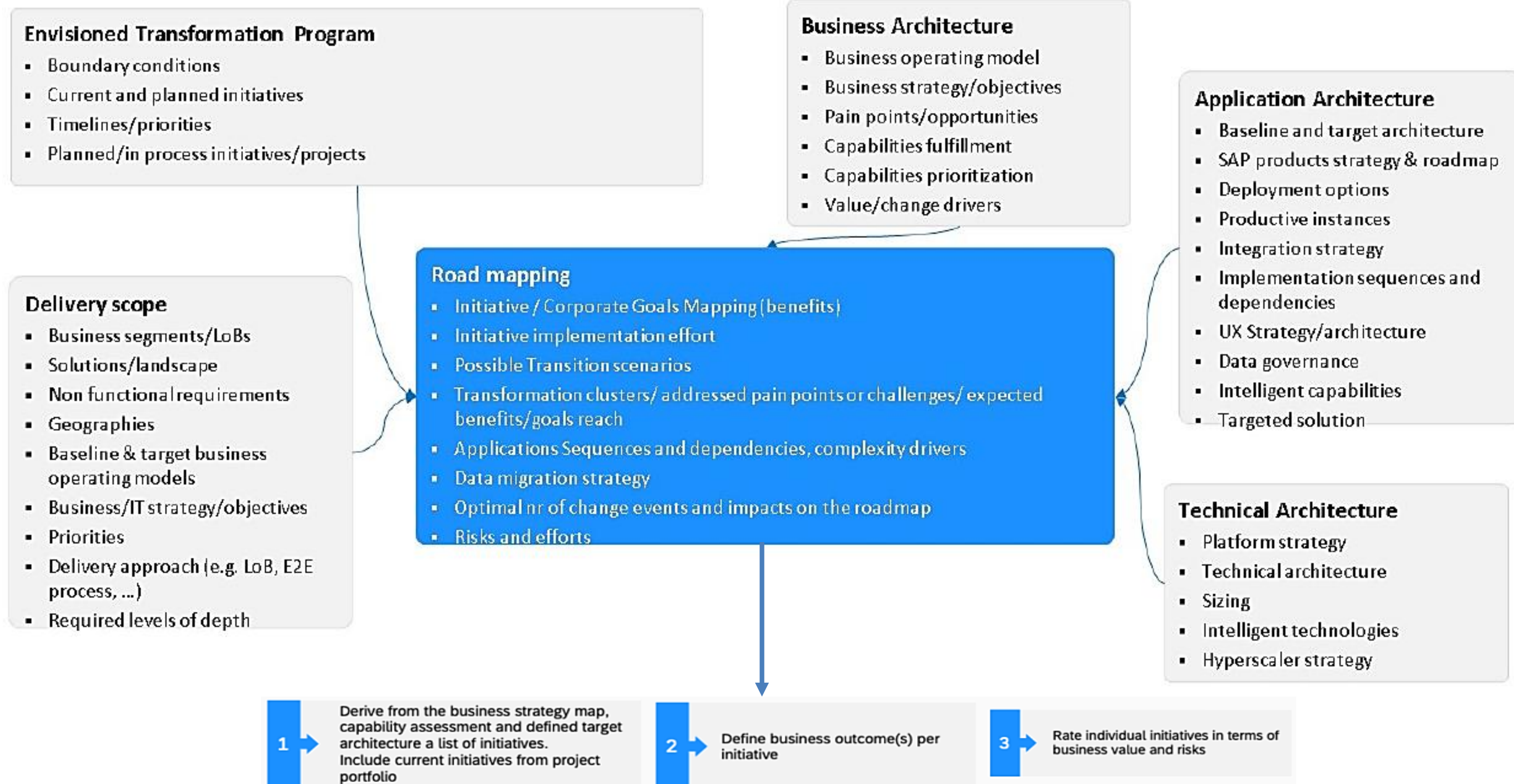
An **Application Architecture Roadmap** depicts the solutions required to realize a company's goals within a given time



**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.

# SAP Enterprise Architecture

## Road-mapping influencing factors



Public

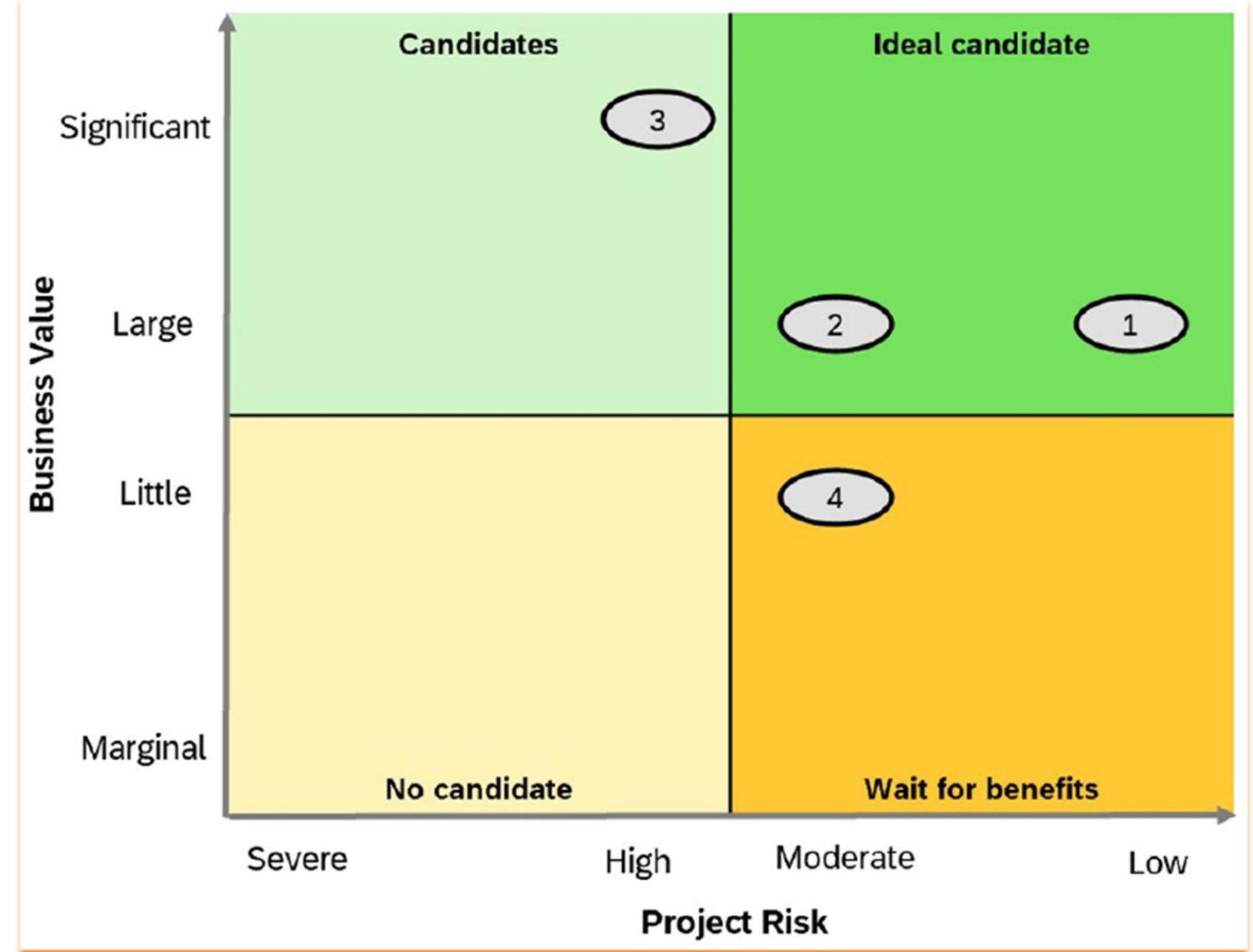
# Initiative Catalog and Priorities Matrix

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	...	...





# Initiative Catalog and Priorities Matrix

2

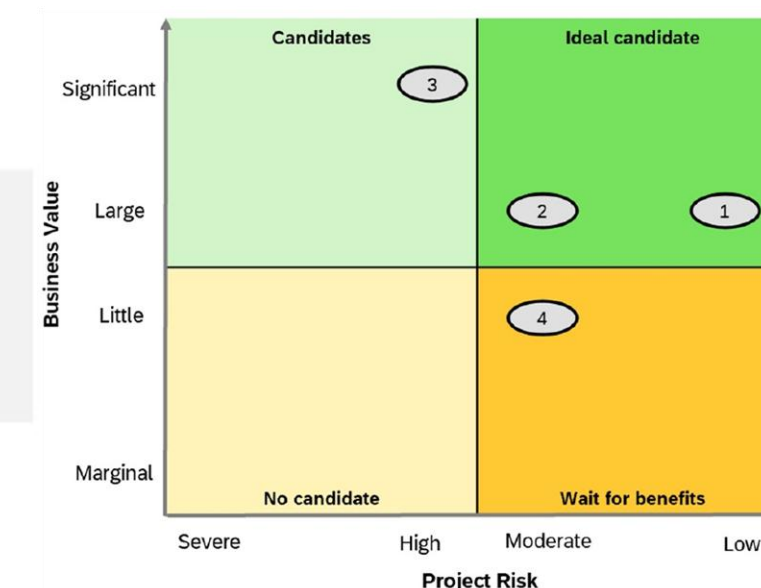
Define business outcome(s) per initiative

## 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

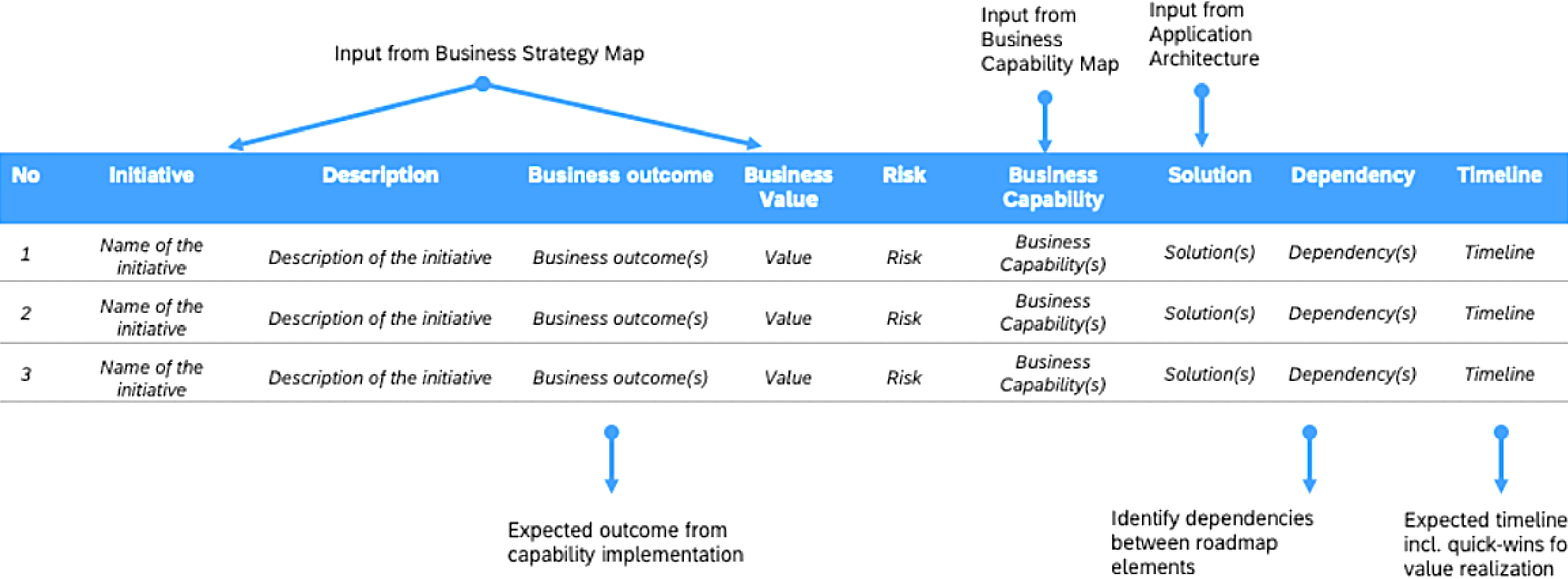
Rate individual initiatives in terms of business value and risks



## 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 better modelling in case of major investments	★★★★☆	↑↑↑↑
2	Implement flexible pricing model	Product and service pricing must be flexible to facilitate better competition, fast response 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	...	...		

# Roadmap “Construction Table”



## Construction Table for Architecture Roadmap

INITIATIVE(PROGRAM)	PROJECT	BUSINESS OUTCOME: MILESTONE	OBJECTIVE(VALUE DRIVER)	BUSINESS CAPABILITY	SOLUTION(APPLICATION)	DEPENDENCY	TIMELINE
Initiative (Program) 1:	Initiative (Project) :	Outcome (Milestone)	Value Driver:	Capabilities:	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						



# Objective: Build Business Architecture Roadmap



Check Workspace

## ← Initiative Roadmap ☆

Save as

Share

×

Type: Initiative ×

AND

Quality Seal: Broken OR Approved ×

+

View

Lifecycle ▾

Initiatives

Select

Collapse all

Expand all

Level

1

2

3

Sort

Start Date ▾

Zoom

Year ▾

Settings

n/a

Plan

Phase in

Active

Phase out

End of life

Organization

North Carolina Chemicals Corporation (N3C)

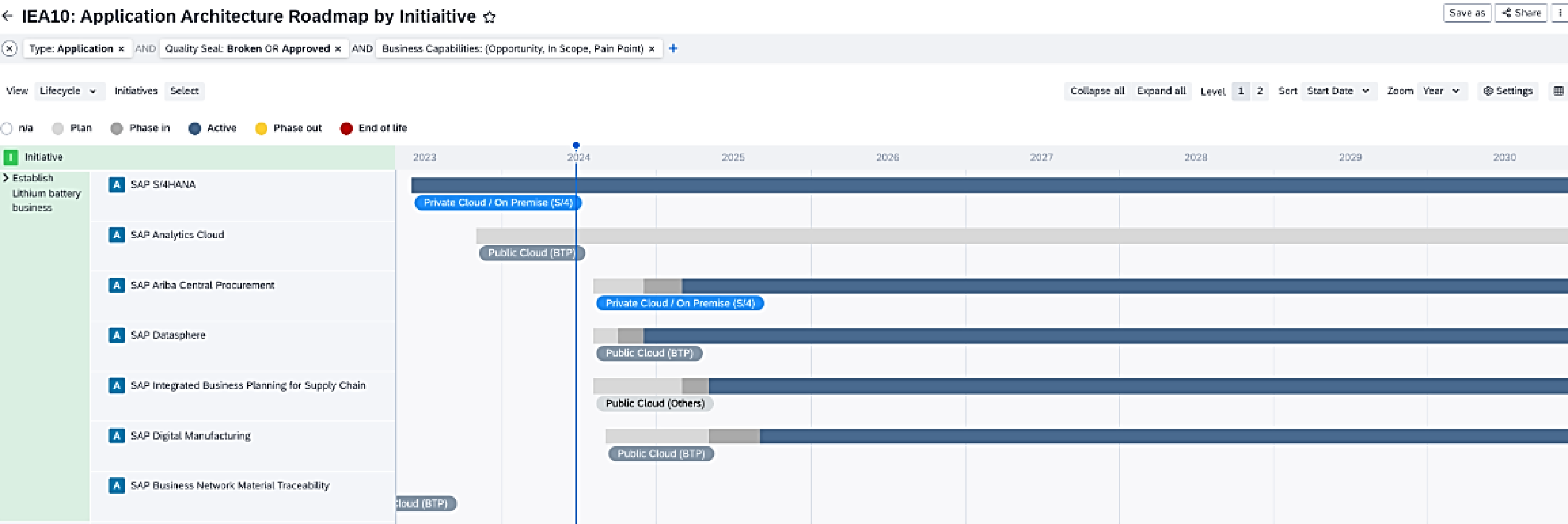
Establish Lithium battery business

Establish Lithium battery production

Establish Product Tracking & Tracing

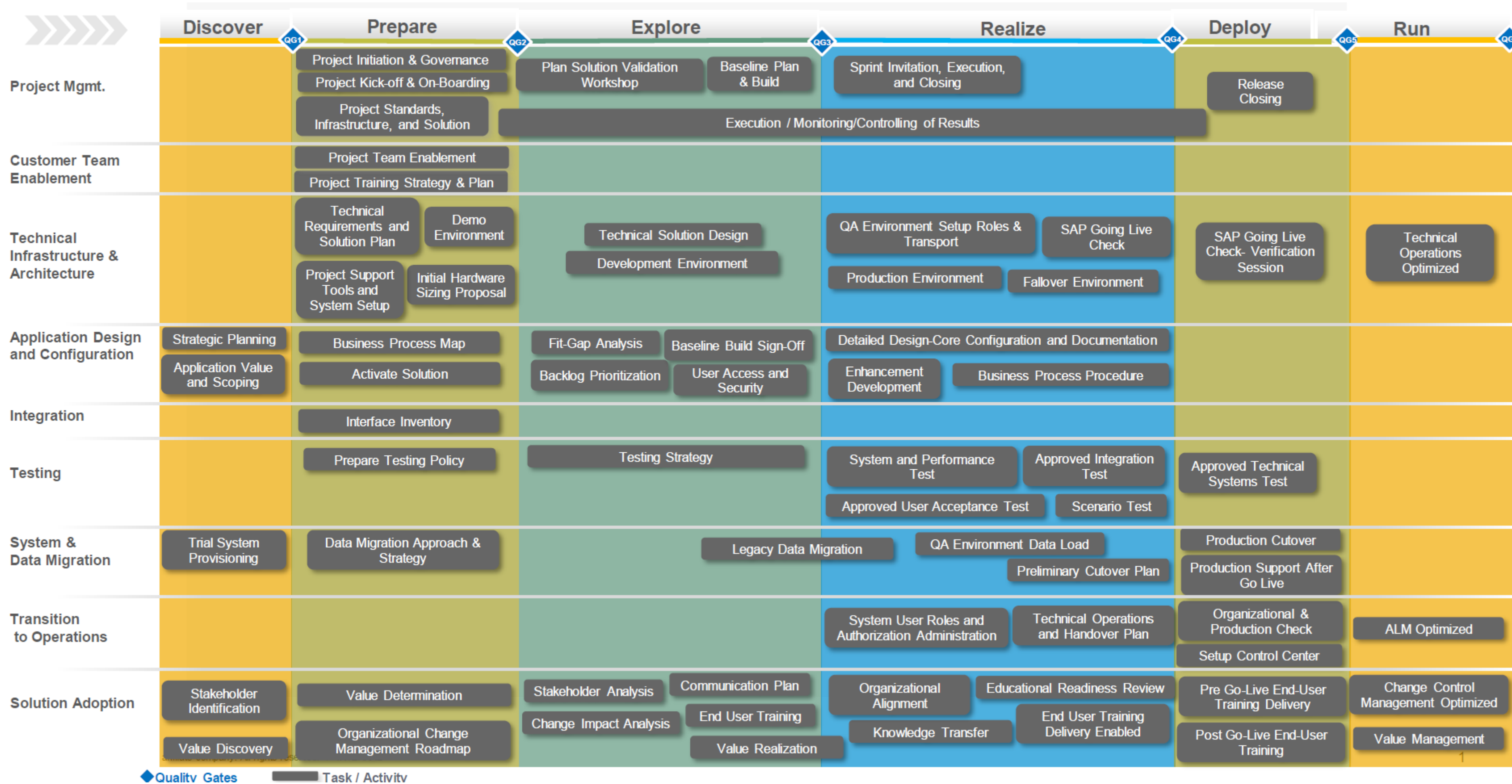


# Objective: Build Application Architecture Roadmap





# Work Breakdown Structure: SAP ACTIVATE PHASES



# Work Breakdown Structure: SAP ACTIVATE PHASES

## DISCOVER

# PREPARE

## EXPLORE

## REALIZE

## DEPLOY

# RUN

Project Start Date :					01-07-2025					date in													
										1 2 3 4 5 6 7 8 9 10 11 12													
WBS # WBS Title Workstream Tag										Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su													
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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 Configur 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																							
Template Overview WBS Accelerators +																							



## 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](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>

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


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Nov, 2025

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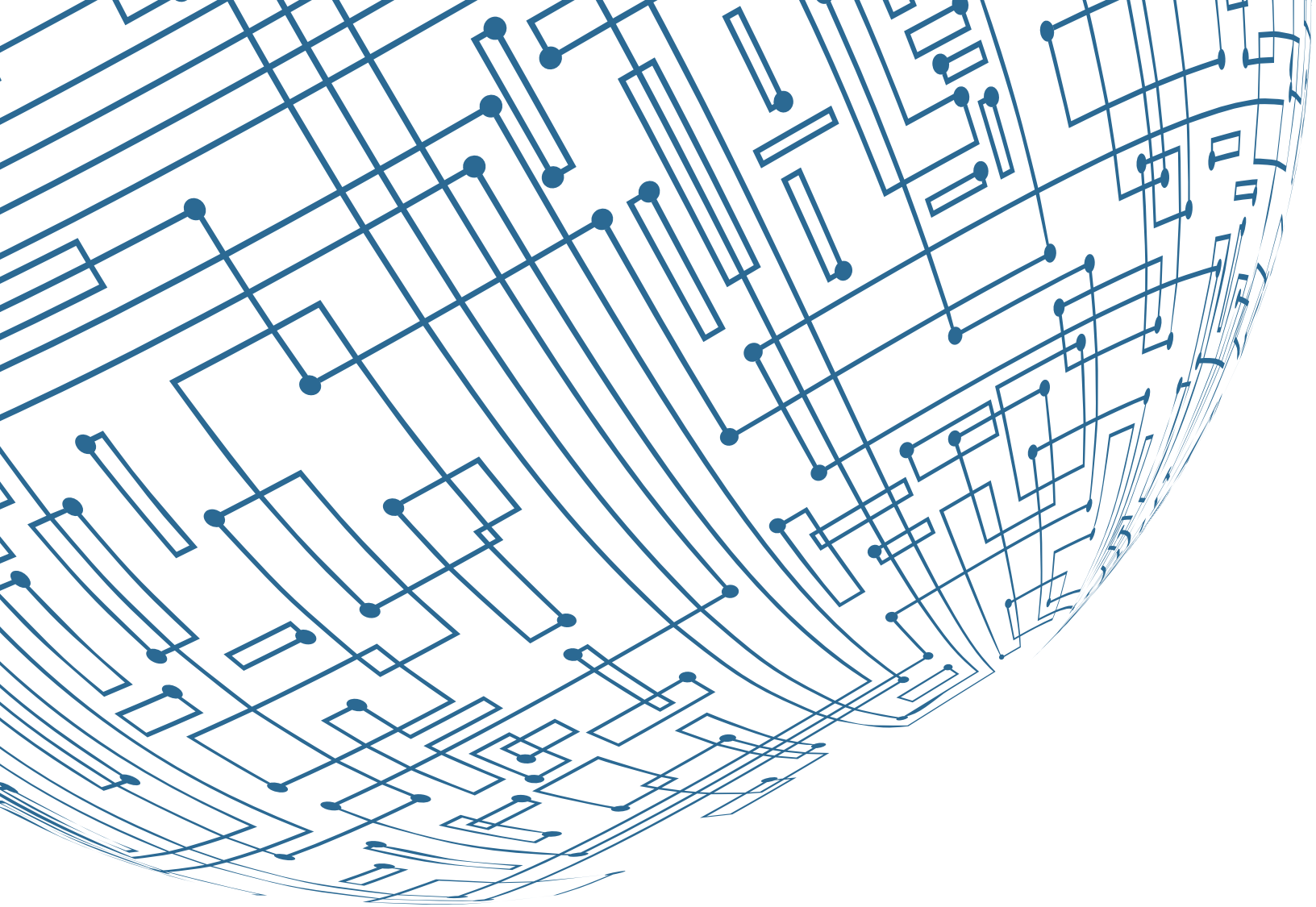
[https:// sapinsights.eu.qualtrics.com/jfe/form/SU\\_88P4J28](https://sapinsights.eu.qualtrics.com/jfe/form/SU_88P4J28)

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