SAP Intelligent Enterprise Architecture (IEA10) - Training

V2.0

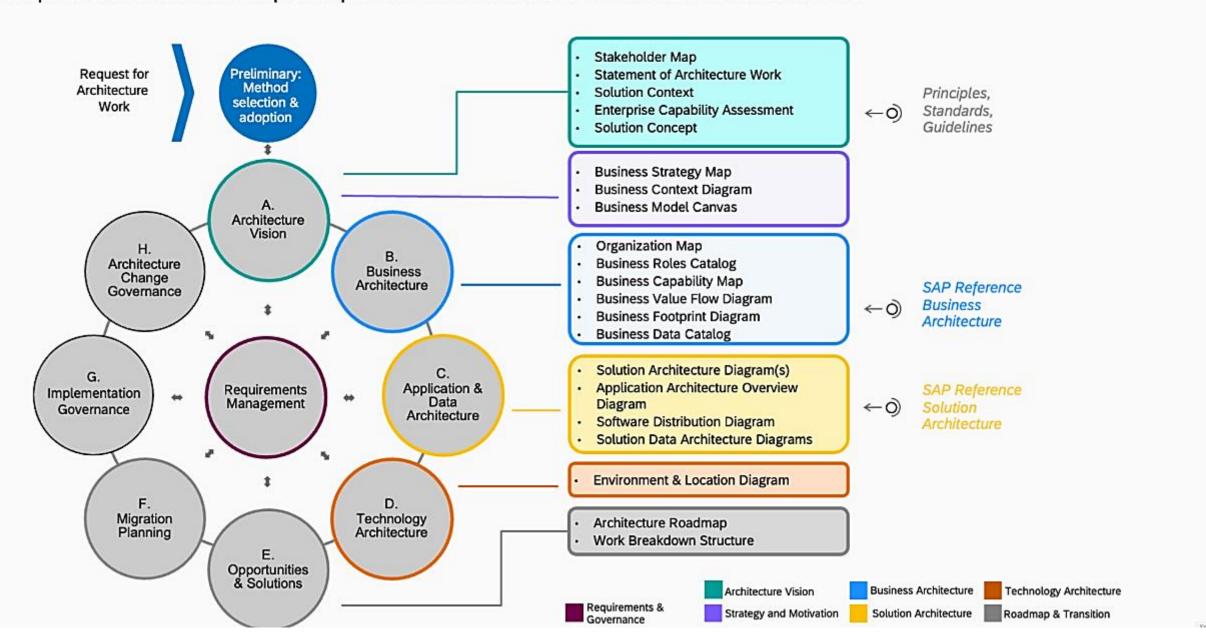
Customer Case Study: N3C

INTERNAL



SAP Enterprise Architecture Methodology

Enterprise architecture development process based on TOGAF® ADM with selected artifacts



Requirements Analysis

Customer Case Study: N3C

INTERNAL



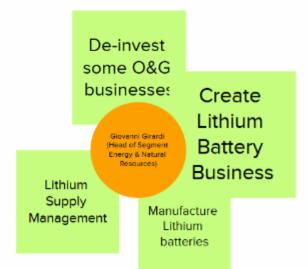
Functional & Non-Functional







Requirement or Business/ Solution Capability



Stefanie Rock (Lead of Cross Function Digital Customer Experience)

Ricardo Pereira (Head of division Crop Protection)

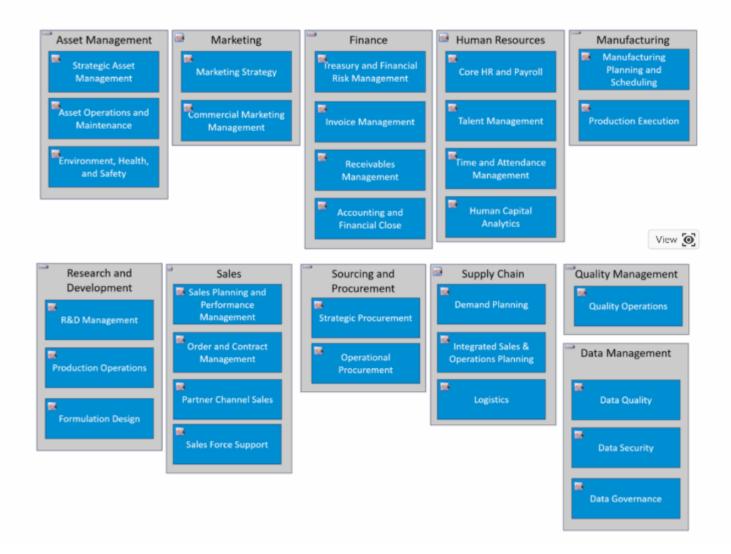
> Roland Hoegele Lead of cross function Information Technology

Crop Protection

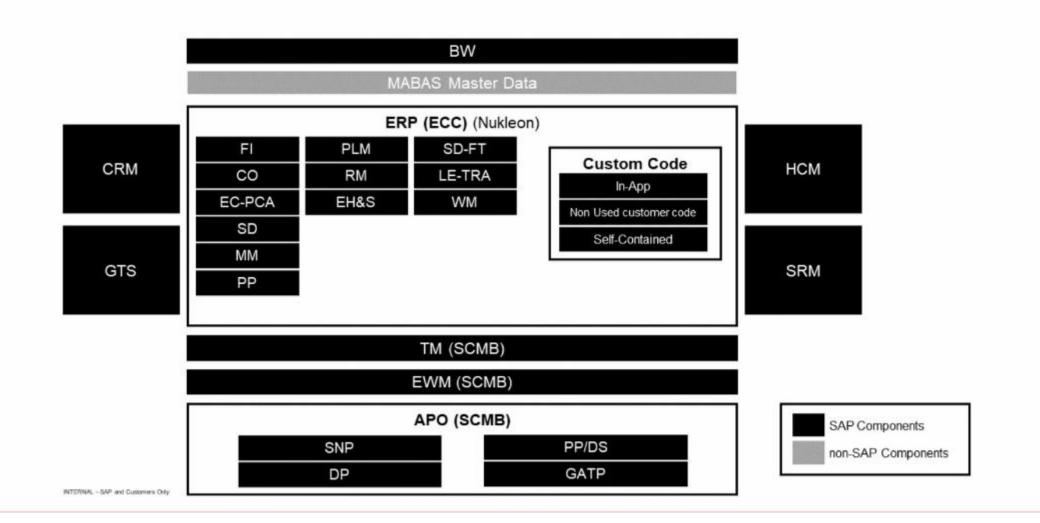
Energy & Natural Resources

Cross

Baseline: Business Capabilities & Processes



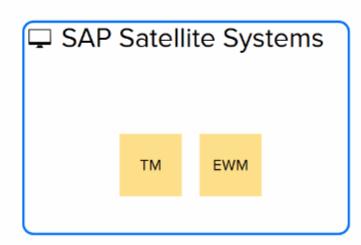
Baseline: Application Architecture

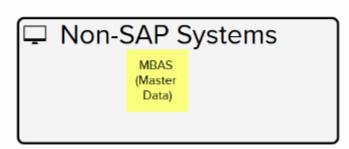


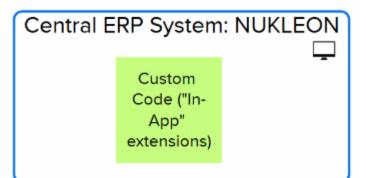
Actors and External Systems











Additional Requirements - Collection





Ricardo Pereira (Head of division Crop Protection)

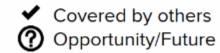


Crop Protection

> Energy & Natural Resources

> > Cross





Stakeholder Engagement Map



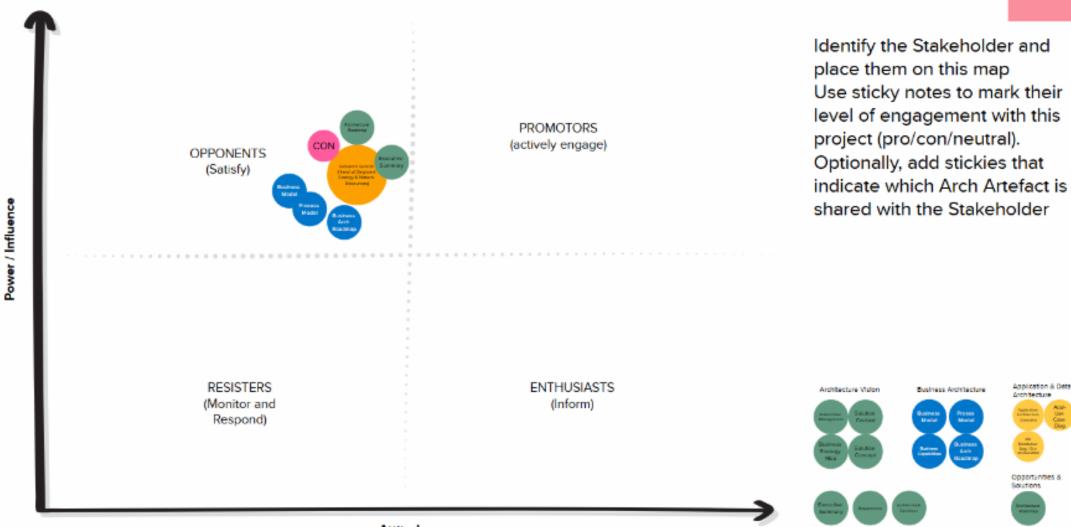


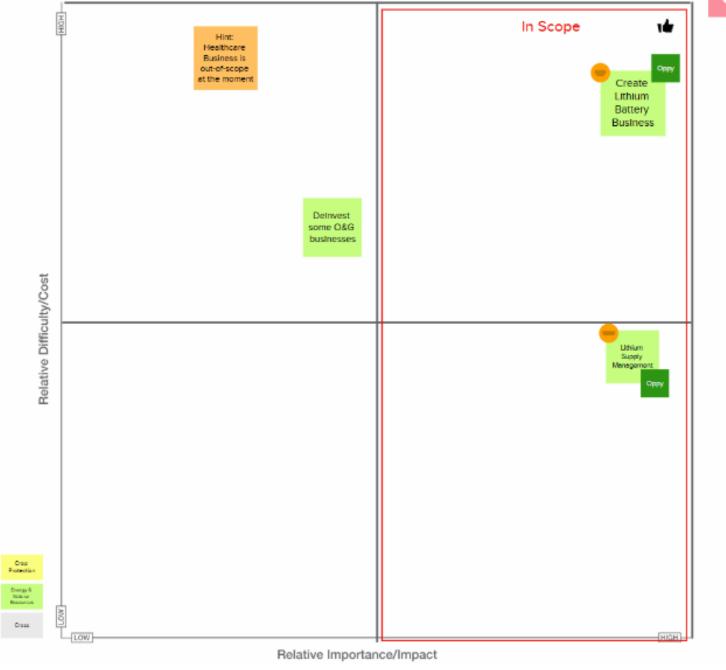












Risk assessment



Risk ID	Risk	Initial Risk		Mittigetion	Residual Risk	
		Classification	Impact		Classification	Impact
BR1	Overload with IT projects; too many things at once.	Critical	No project will have the required attention for finishing it in time and budget.	Roadmap, implementation and rollout plan that can be worked on.	Marginal	Higher cost for implementation and rollout services. Project may still experience delays and budget challenges.
BR2	Selected solution and products do not keep the promise.	Critical	Time, budget and resources will be wasted. Delay in digital transformation and innovation. Market share loss.	Build trusted partnership with solution provider. Use preferred and experienced partners. Carefully evaluate proposed solutions with effected end-users. Setup reviews cycles, PoCs and early prototypes for evaluation.	Critical	
				evaluation.		

Architecture decisions

Architecture Decision: Plat 1001

Name: Select Solution Architecture for Hybrid Environments

Major requirement that drives this decision is the support of GxP compliance systems and processes (see "Compliance with law" in Architecture Principles). For example, customer need to ensure that configuration and process changes are documented very detailed and are approved/signed off.

Rational: Currently, the S/4HANA Public Cloud offering cannot fully ensure GxP for all industries. Therefore, a customer specific instance is required (either provided within a dedicated Private Cloud environment or as on premises solution in customer's own data center).

Last Changed / Owner: 2024-03-21: Roland Hoegele (N3C) / Max Mustermann (SAP)

Architecture Decision: Plat_1010

Name: Dedicated cloud solution for Customer Experience

Decision was taken to leverage dedicated cloud solutions for better customer experience (for example Commerce Cloud instead of customers accessing S/4HANA backoffice system directly)

Rational: Better customer experience through faster innovation cycles and dedicated look & feel; separation of data access; separation of user access management (see "Cloud-first Strategy" in Architecture Principles)

Last Changed / Owner: 2024-03-21: Stefanie Rock (N3C) / Anna Musterfrau (SAP)

Architecture Decision: Plat_2010

Name: S/4HANA Private Cloud Edition in DC in North Virginia/U.S.

Rational: We need to apply to GxP regulations in general (see Plat_1001) but do also prefer cloud offering over own on premises operated systems (see Architecture Principles "Cloud first strategy"). Therefore, the Private Cloud Edition is the selected approach (own ERP system but operated by the IT partner SAP). The Architectural Principles define a multi Hyperscaler strategy. Therefore, an AWS data center in the U.S. was selected, also due to closest availability.

Last Changed / Owner: 2024-03-21: Roland Hoegele (N3C) / Max Mustermann (SAP)

Architecture Decision: Plat_2020

Name: Use the Digital Manufacturing solution (DM) in DC Amsterdam for the new Lithium Business.

Rational: The DM DC must follow the N3C Hyperscaler Strategy and should be located as close as possible to the Manufacturing site for Lithium production (in Germany). DM could also be used for existing production sites in the U.S. (DC Virginia, U.S. East). We need to select DM on an Azure data center in Europe due to N3C Azure based Hyperscaler Strategy for European (see Architecture Principles).

Last Changed / Owner: 2024-05-13: Giovani Girardi (N3C) / Anna Musterfrau (SAP)

Architecture Decision: Plat_2030

Name: Use the Logistics Procurement/Invoicing and Sourcing/Supplier Mgmt (Ariba) in DC in San Jose/CA, U.S.. Use the Logistics collaboration network LBN (Logistics Business Network) DC Quincy/WA, U.S.

The Logistics Procurement/Invoicing and Sourcing/Supplier Mgmt (Ariba) should be located as close as possible to the site where the major corporate functions for the supply chain management and where the master ERP system are located. The LBN functions are for WW collaboration in DC Quincy/WA, U.S.

Rational: The Logistics Procurement and Invoicing / Sourcing and Supplier Management (Ariba) should be located as close as possible to the location of the majority of the corporate functions (Greensboro/NC, U.S.)

The location of the WW supplier collaboration network functions is not as crucial due to the nature of WW network solutions (select Quincy/WA, U.S.)

Last Changed / Owner: 2024-05-13: Roland Hoegele (N3C) / Max Mustermann (SAP)

Architecture Decision: Plat_2035

Name: Use the SAP Business Network Material Traceability in DC Frankfurt, DE.

The Logistics for the production material (Ariba) should be located as close as possible to the site where the major production and use of the materials takes place (basically close to the production site which uses the Lithium as supply --> Europe, e.g. Amsterdam/NL).

Rational: Currently the Material Traceability part of SAP BN for Logistics is only available in DC Frankfurt/DE. Therefore, this option is taken

Note that this decision needs to be revalidated when BN for Logistics Material Traceability will be also available in Amsterdam/NL or in DC Quincy, WA (U.S.).

Last Changed / Owner: 2024-05-13: Roland Hoegele (N3C) / Max Mustermann (SAP)

Architecture Decision: Plat_2040

Name: Use the SAC + DWC in DC Amsterdam and in DC N. Virginia, U.S. SAP Analytics Cloud for business data visualisation and business analytics for Business Users should be made available in DC in Amsterdam and in the DC N. Virginia, U.S. The same applies for the data management and preparation with the Datasphere.

Rational: SAC should be close to the data source(s) of the data source(s) of the data that needs to be visualized. This is the Digital Manufacturing Cloud system for the European / Lithium business in Amsterdam and the PCE system for the existing manufacturing plants and corporate functions in Greensboro/NC, U.S. (see Plat_2010)Furthermore, SAC and Datasphere should be located close to each other (data preparation and visualisation) and close to the source system of the data that needs to be analysed. This is the DC in Amsterdam/NL is for the European business and the Lithium production in Germany. The DC in N. Virginia/U.S. is for the PCE for the existing corporate functions in Greensboro.

Last Changed / Owner: 2024-05-13: Roland Hoegele (N3C) / Max Mustermann (SAP)

Architecture Decision: Plat_2050

Name: Use the IBP in DC Amsterdam and in a DC in N. Virginia, U.S. (e.g. Ashburn)

The Integrated Business Planning (IBP) solution should be used in DC in Amsterdam and in the DC N. Virginia, US, to ensure efficient usage of planning data.

Rational:

IBP should be close to the data source(s) of the data that is required for the planning process (from S/4HANA PCE systems are planned for the DC in Amsterdam (Lithium Batteries Business) and for the DC in N. Virginia (Corporate Functions, Crop Science), the same or a close DC should be used for IBP (see Plat_2010). This reduces the distance over which the planning data needs to be transferred (efficiency and cost).

Last Changed / Owner: 2024-05-25: Roland Hoegele (N3C) / Max Mustermann (SAP)

Executive Summary

Transformation Project in







Example (!):

Activities last 30 days (Focus: Business Architecture):

- Assessed Business Capabilities and Value Flows
- Derived first candidate Solution Building Blocks based on SAP provided Reference Content

Activities next 30 days (Focus: Solution Architecture):

- Finalize first version of Solution Building Blocks; identify White Spots and suggest mitigation
- Select applications for Solution Building Blocks; and used deployment environment (on Prem vs. Cloud)

Architecture Overview

Goals Drivers and Objectives

Contribute to the decarbonization of the global economy

Diversify the Energy & Natural Resources and be less dependant on fossil energy

Increase revenue and become a strategic player in the manufacturing of Lithium based accumulators in Europe

Business Architecture Roadmap

Architecture Vision

Customer Case Study: N3C

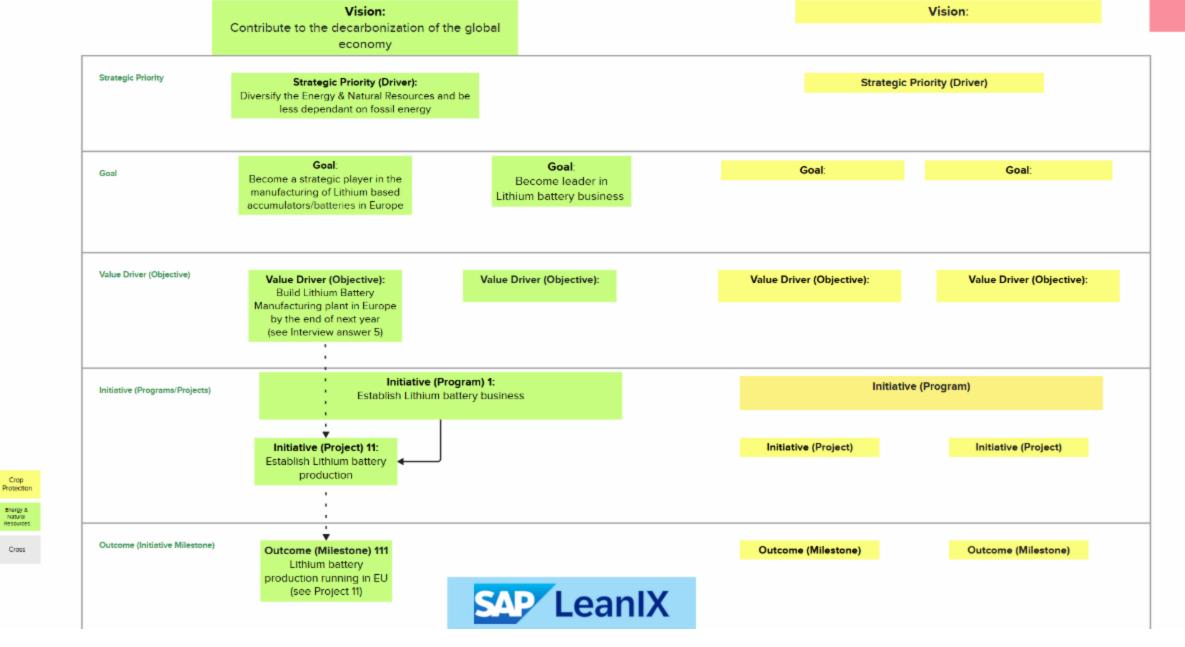
INTERNAL



Objective: Build Business Strategy Map

Crop

Cross



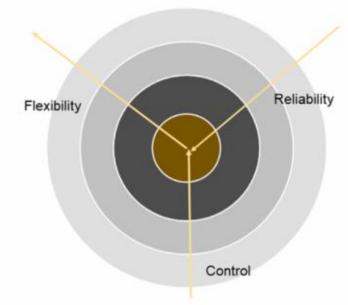
Enterprise Capability Assessment

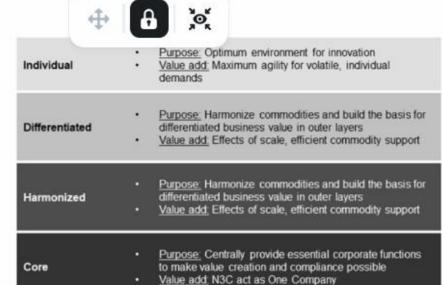
Corporate Capabilities Resources and skills: mindset shift required Exploration capabilities for lithium need to be from traditional product sales to service/ established (experiences for oil and gas exist) solution sales Manufacturing of lithium batteries is a new Service Organization has to mature from business product sales to service sales Finance: revenue recognition will need to Business Processes: end-to-end process reflect service mile-stones and pay per use mindset across silos required models IT Infrastructure: shift to true digital and cloud will be required

Constraints Tight schedule, many resources involved Developing two new business models at the same time Strong competition in lithium business

Architecture Principles

Layered IT Concept

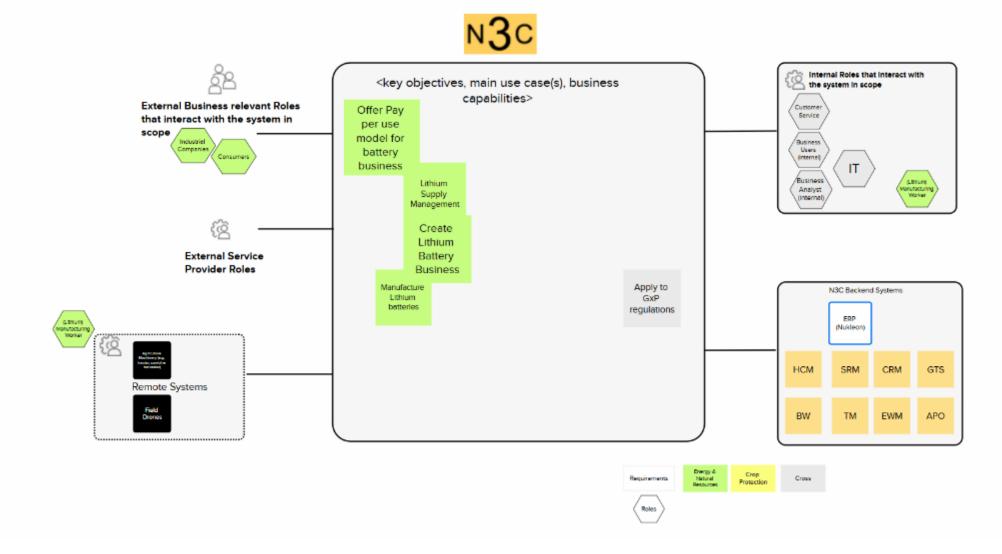




By choosing the right governance approach per layer, N3C combine agile, quick solutions with a stable, reliable foundation for execution

INTERNAL - SAP and Customers Only

Objective: Build Solution Context



Objective: Build Solution Concept

Internal Roles that interact with Most important Architecture Building Blocks the system in scope (Functional Components) **External Business relevant Roles** that interact with the system in Customer Service Service scope Protection Technician Service (internal) Suppliers Advisors Business (Drone Users Providers) Supply Chain (internal) Management ΙT ERP (sales, manufacturing. Business Customer Analyst supply chain CRM (internal)/ etc.) Experience / Solution Management Technician (3rd Party) Manufacturing **External Service** Execution Integration N3C Backend Systems **Provider Roles** Services System Agricultural Machinery S/4HANA Field Data Providers , ERP (Nukleon) Colletion Service Providers rtoh 3rd Perty*: Azure lot Tracking & Marketing Marketing CRM GTS Tracing (Services) (Products) Service Machine Management Suppliers (Drone Field Crop Remote Systems EWM APO Efficiency Monitoring 3rd Party*: Climate Efficiency and Insights Fieldview + Sentera Drones Fieldagent Senters Fieldagent Architecture **Building Blocks**

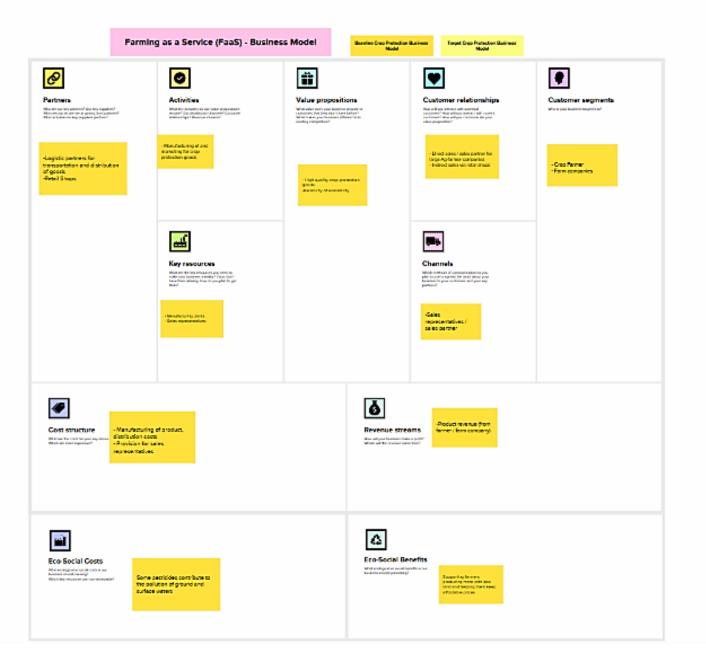
Roles

Business Architecture

Customer Case Study: N3C

INTERNAL

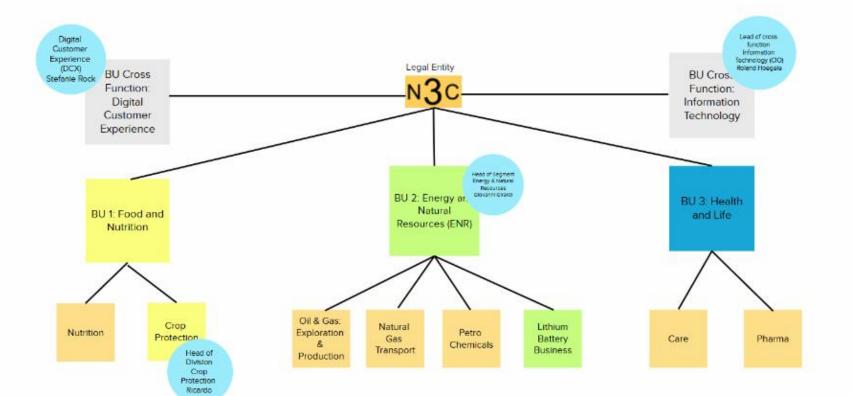








Objective: Build Organization Map





B

Business Unit

Division

In Scope:

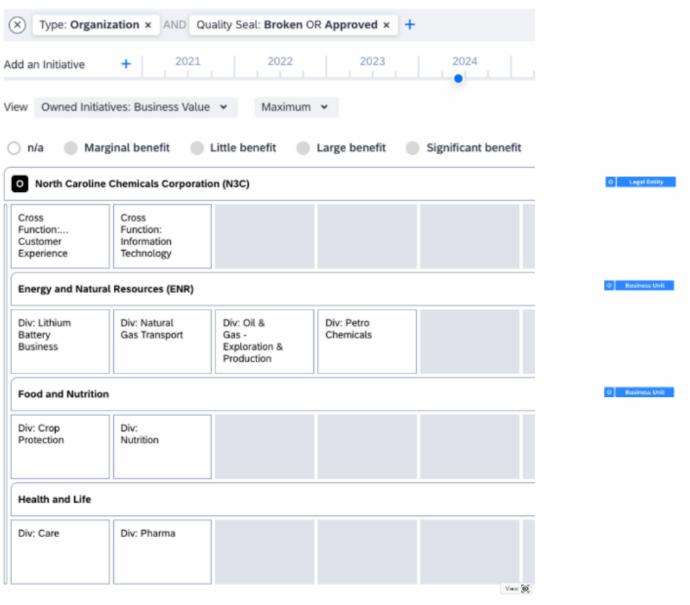
Crop Protection Energy &

Natural

Resources

Example Artefact in LeanIX: Organization Map

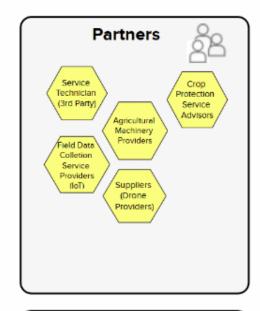
← IEA10: Organization Map

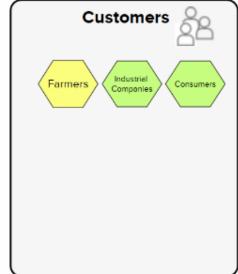


C

Business Role Diagram



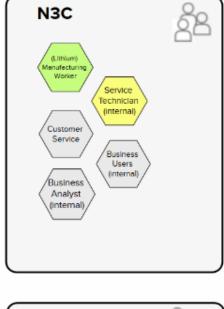




Crop Protection

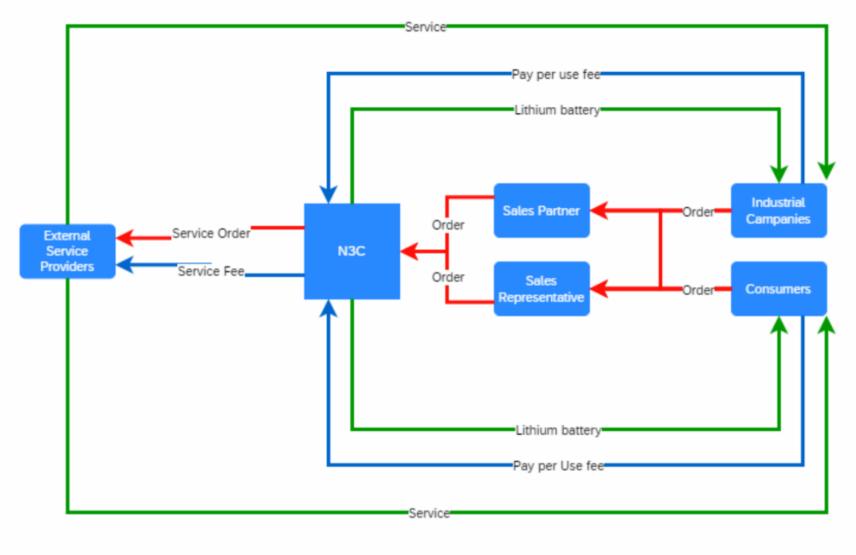
Energy & Natural Resources

Cross





Example Artefact: Business Context Diagram



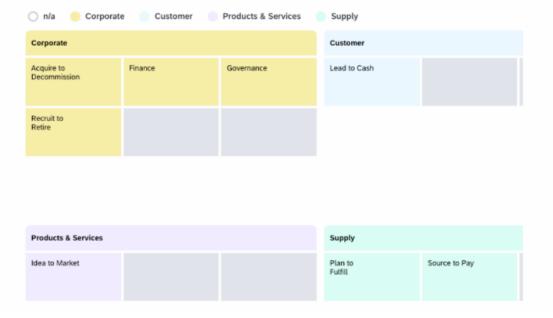


Objective: Create Target Business Capability Map and Value Flow



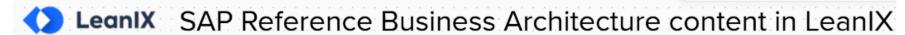


Business Process - Module - Segment - Activity (for Oil and Gas industry)

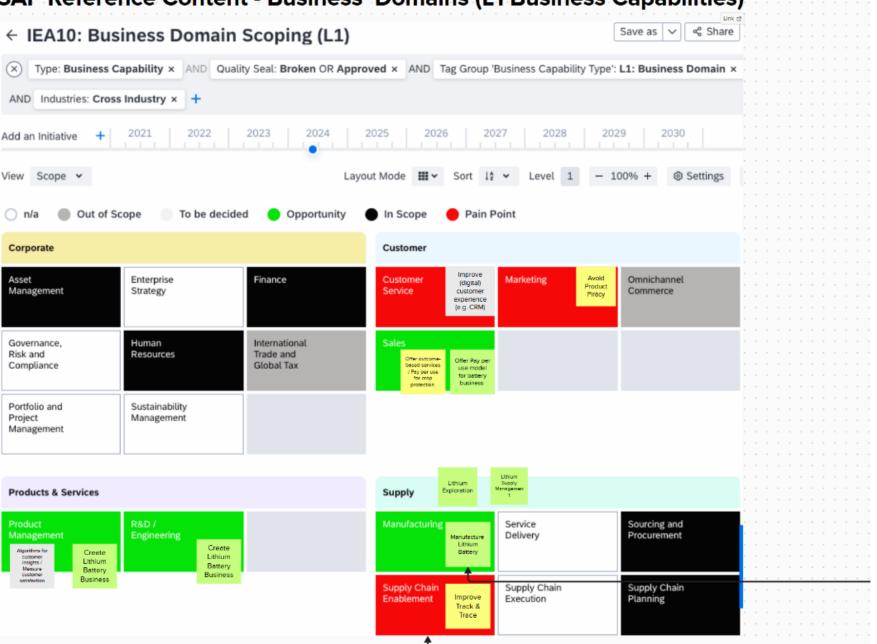


Business Domain - Area - Capability (incl. Industry-Content)

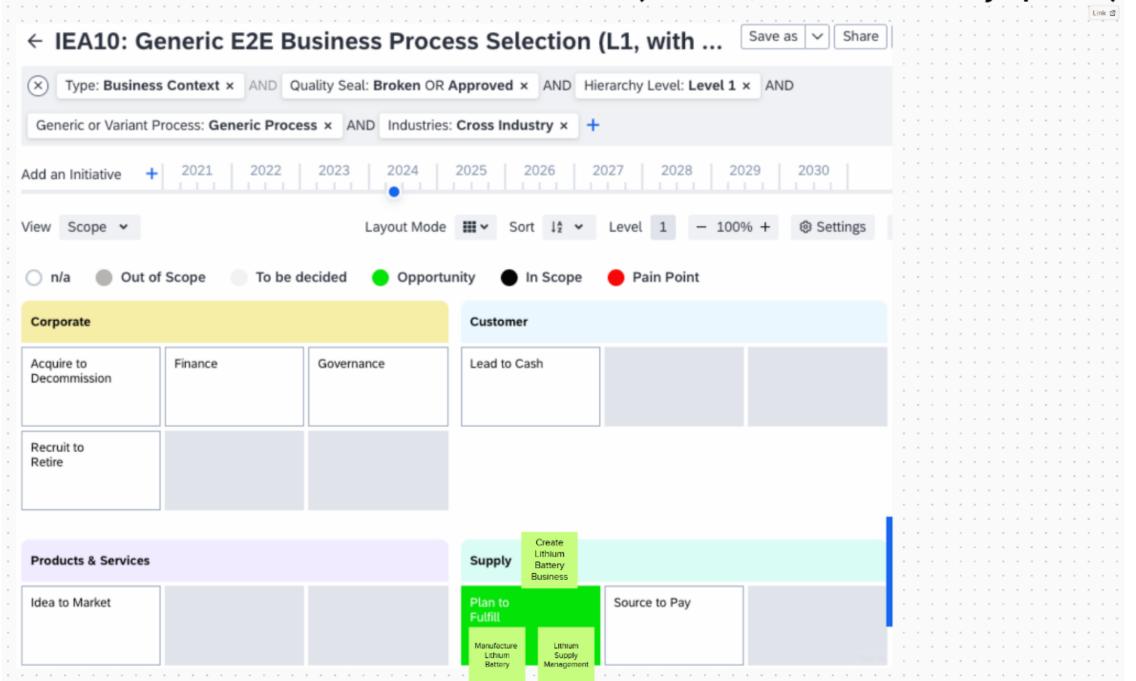
n/a Corporate	Customer	Products & Services	Supply			
Corporate			Customer			
Asset Management	Enterprise Strategy	Finance	Customer Service	Marketing	Omnichannel Commerce	
Governance, Risk and Compliance	Human Resources	International Trade and Global Tax	Sales			
Portfolio and Project Management	Sustainability Management					
Products & Services			Supply			
Product Management	R&D / Engineering		Manufacturing	Service Delivery	Sourcing and Procurement	
			Supply Chain Enablement	Supply Chain Execution	Supply Chain Planning	



SAP Reference Content - Business Domains (L1 Business Capabilities)



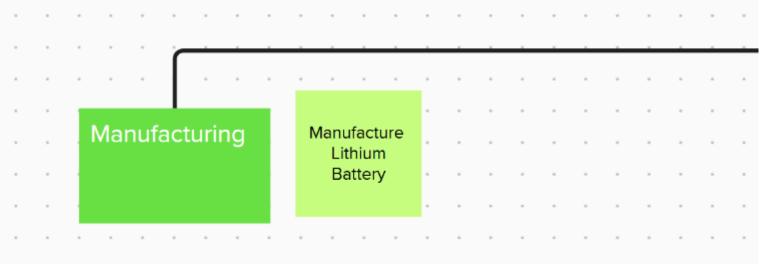
SAP Reference Content - Business Processes (Generic, Variants, Industry-specific)



Target Business Process Map and Business Capability Map

a. Capability-driven Assessment based on Reference Business Architecture

1. Decide which Business Domains to include or exclude (L1 Capability Scoping).

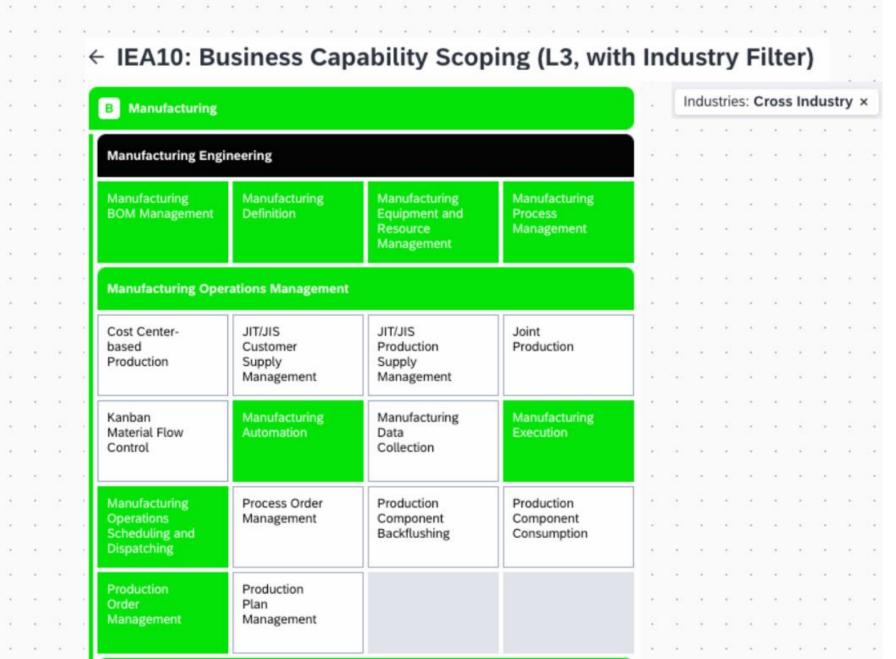


2. Decide which Business Areas to include or exclude (L2 Capability Scoping).

← IEA10: Business Area Scoping (L2)

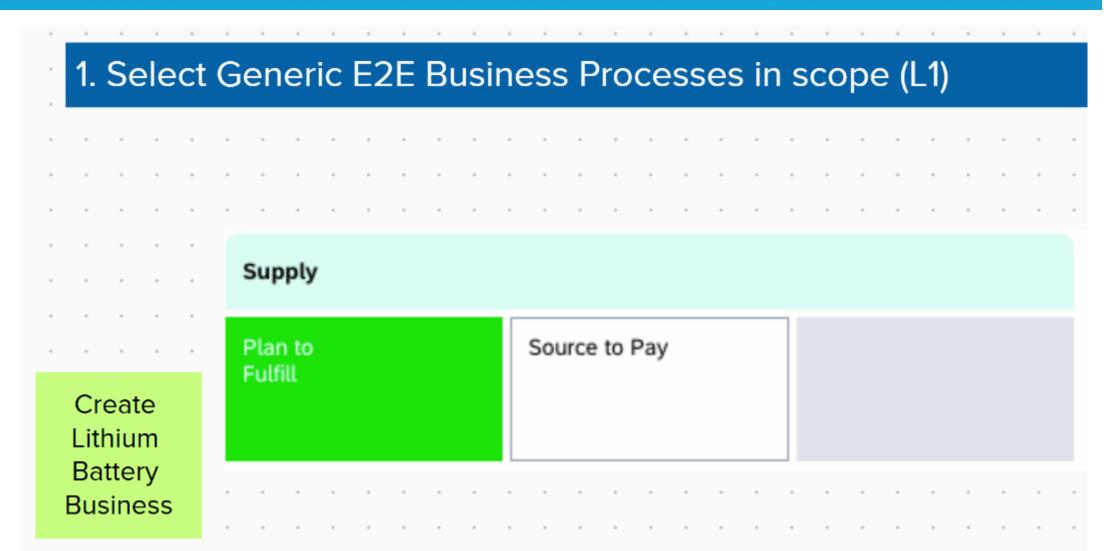
Manufacturing Manufacturing Manufacturing Manufacturing Manufacturing Engineering Operations Performance Strategy Management Management Management Production Production Operations of Planning and Intangible Scheduling Products

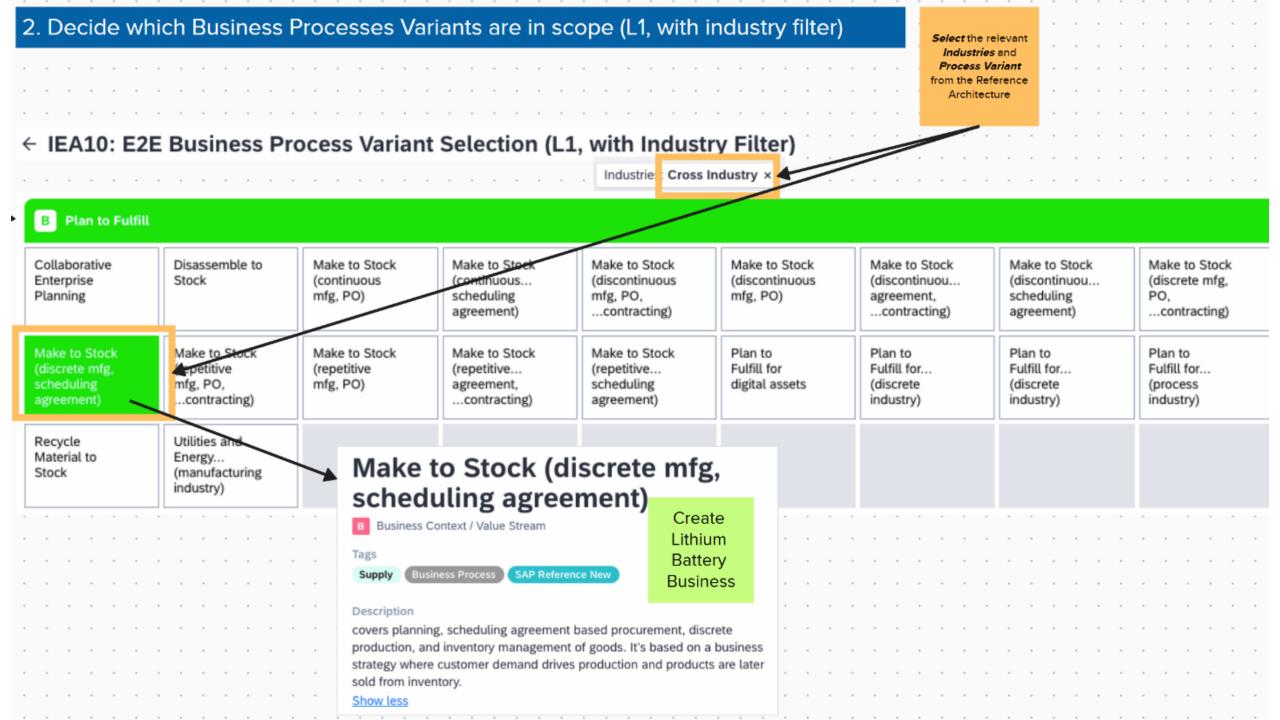
3. Decide which Business Capabilities to include or exclude (L3 Capability Scoping)

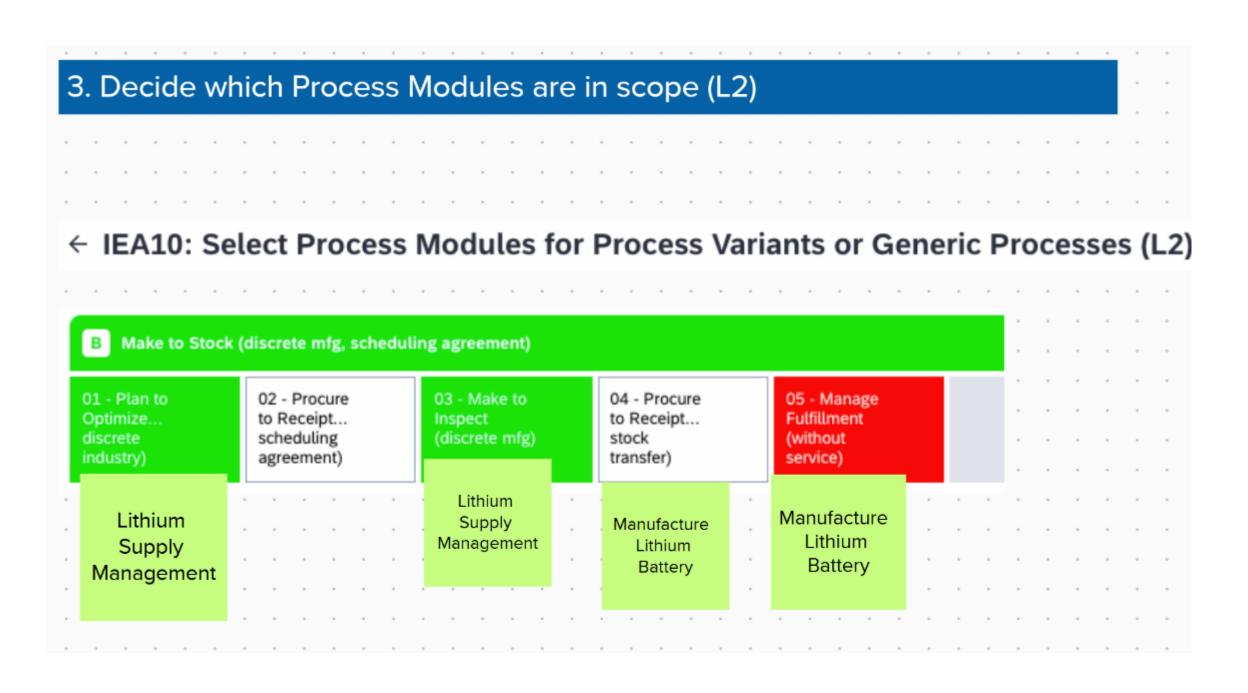


Target Business Process Map and Business Capability Map

b. Process-driven Assessment based on Reference Business Architecture

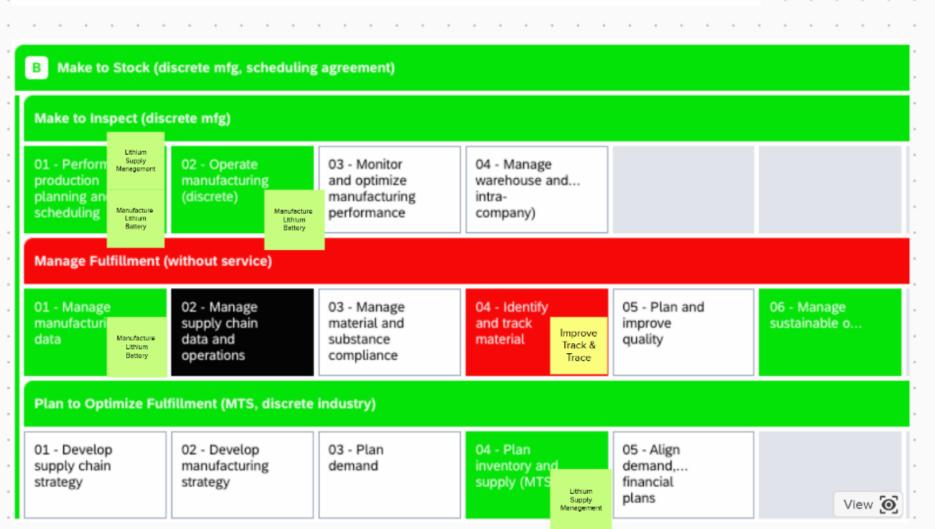






4. Decide which Process Segments are in scope (L3)

← IEA10: Select Process Segments for Process Modules (L3)



5	. Decide whi	ch Business	Activities to	include or e	exclude (L4)						
<u>_</u>	IEA10: Decid	le which Busi	ness Activities	s are in scope	for the select	ed processes	(L4, Solution	Va	lue	Flo	ow)
	B Make to Stock (dis	crete mfg, scheduling	agreement)								
	Make to Inspect (discr	ete mfg)									
Ī	Operate manufacturi	ng (discrete)									
	01 - Start discrete production	02 - Stage production material	03 - Produce / assemble physical product	04 - Maintain production records	05 - Perform quality inspection	06 - Rework	07 - Confirm discrete production				
	Perform production	planning and scheduli	ng								
	01 - Plan and schedule production										
	Manage Fulfillment (w	ithout service)						Ĺ			
ĺ	Identify and track ma	aterial									
	01 - Manage material identification	02 - Manage product genealogy	03 - Track and trace								
		J									

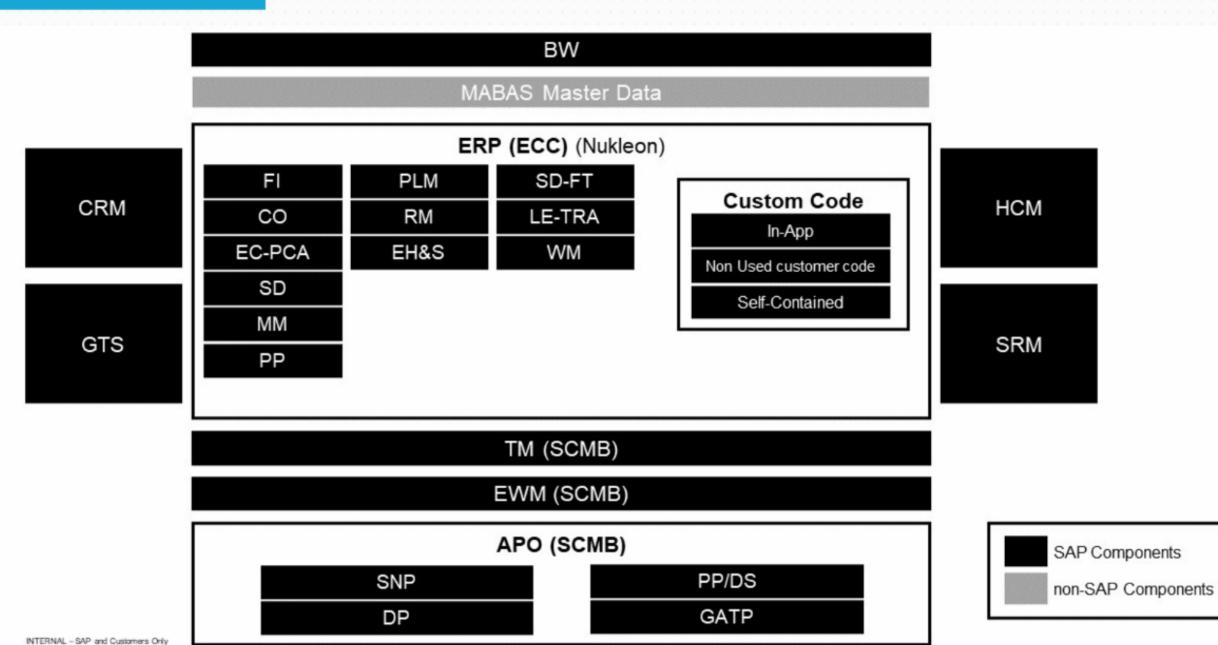
6	. Decide wh	ich Busines s	Capabilitie	s are require	ed for which	Business A	ctivities	
←	IEA10: Sel	ect Business	s Capabilitie	s for Busine	ess Activitie	s (Process-D	Priven Scopi	ng)
	B Make to Stock (disc	crete mfg, scheduling a	greement)					
	Make to Inspect (discre	ete mfg)						
	Operate manufacturii	ng (discrete)						
	Confirm discrete pro	oduction						
	Production Component Consumption	Production Order Management						
	Produce / assemble	physical product						
	Manufacturing Automation	Manufacturing Collaboration	Manufacturing Equipment and Resource Management	Manufacturing Execution	Manufacturing Operations Scheduling and Dispatching	Plant Operations Monitoring	Plant Performance Management	
	Start discrete produ	ction						
	Production Order Management							

Application and Data Architecture

Customer Case Study: N3C

INTERNAL





Functional & Non-Functional



Agricultural Machines Monitoring

Ricardo Pereira (Head of division Crop Protection)

Stefanie Rock **Lead of Cross** Function Digital Customer Experience)

Field Crop Monitoring and Insights

Offer outcomebased services / Pay per use for crop protection

Requirement or Business/ Solution Capability

Major

Stakeholder



Algorithms for customer insights / Measure customer satisfaction

Stefenie Rock (Lead of Cross Function Digital Customer Experience)

Roland Hoegele

Lead of cross

function

Information

Technology

Improve (digital) customer experience (e.g. CRM)

Ricardo Pereira (Head of division Crop Protection)

Giovanni Girardi Head of Segment Energy & Natural Resources)

Ricardo Pereira

(Head of

division Crop

Protection)

Giovenni Girardi (Head of Segment Energy & Natural Resources

Offer Pay per Stefanie Rock use model Lead of Cross Function Digital for battery business

Customer

Experience)

Crop Protection

Energy & Natural Resources

Cross

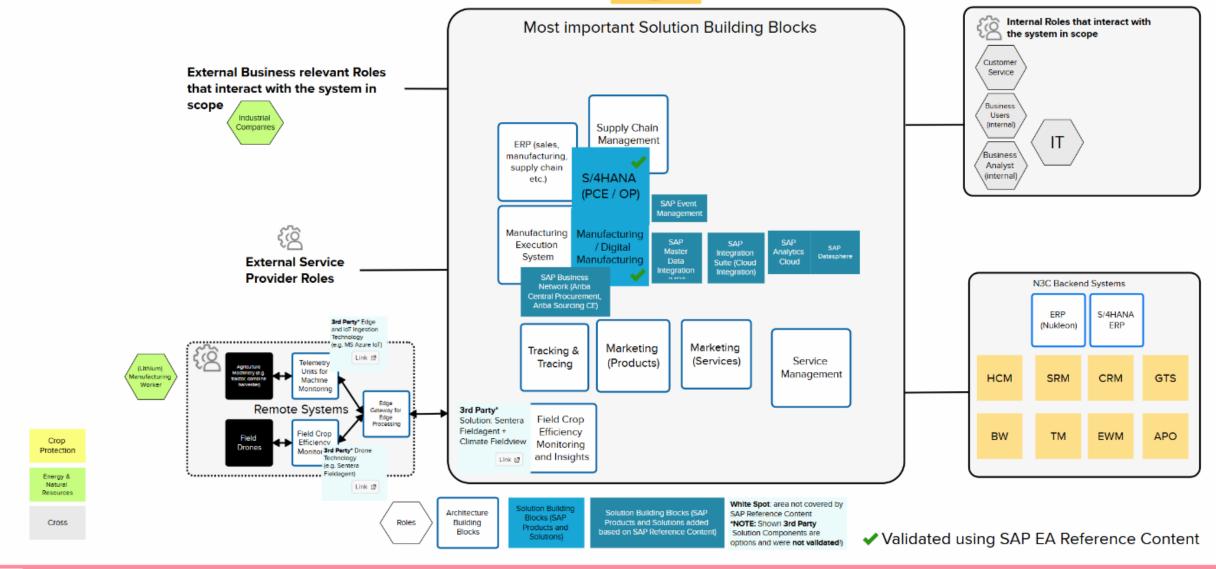
Apply to GxP regulations

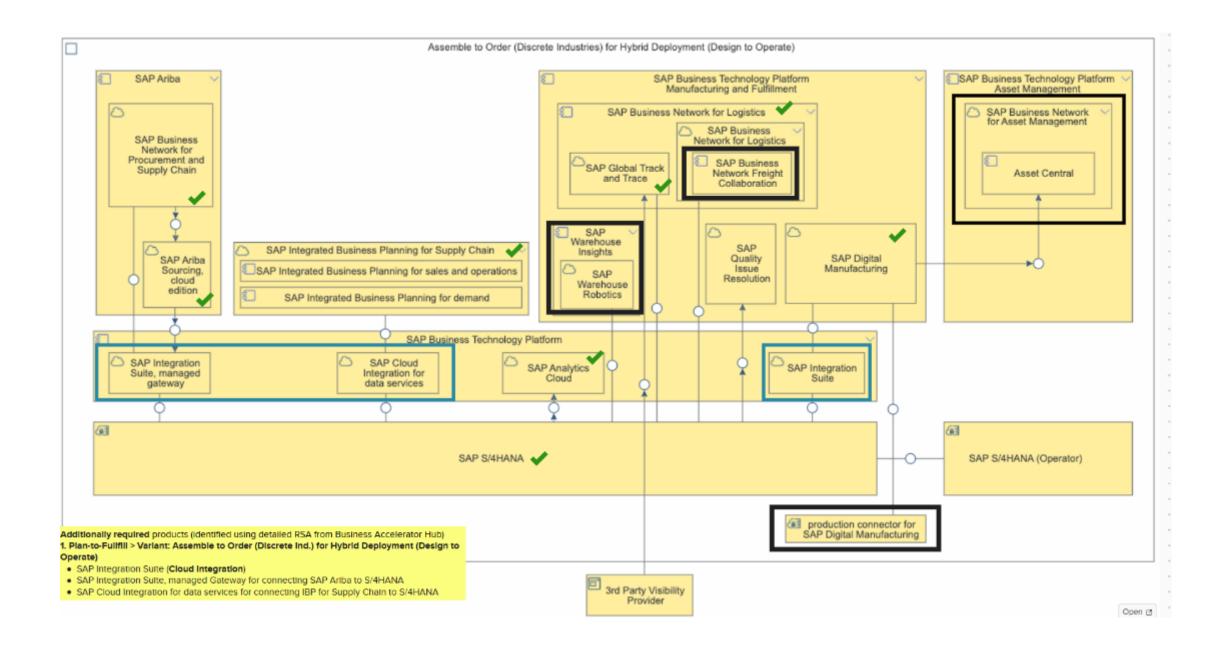
Avoid Product Piracy

Improve Track & Trace

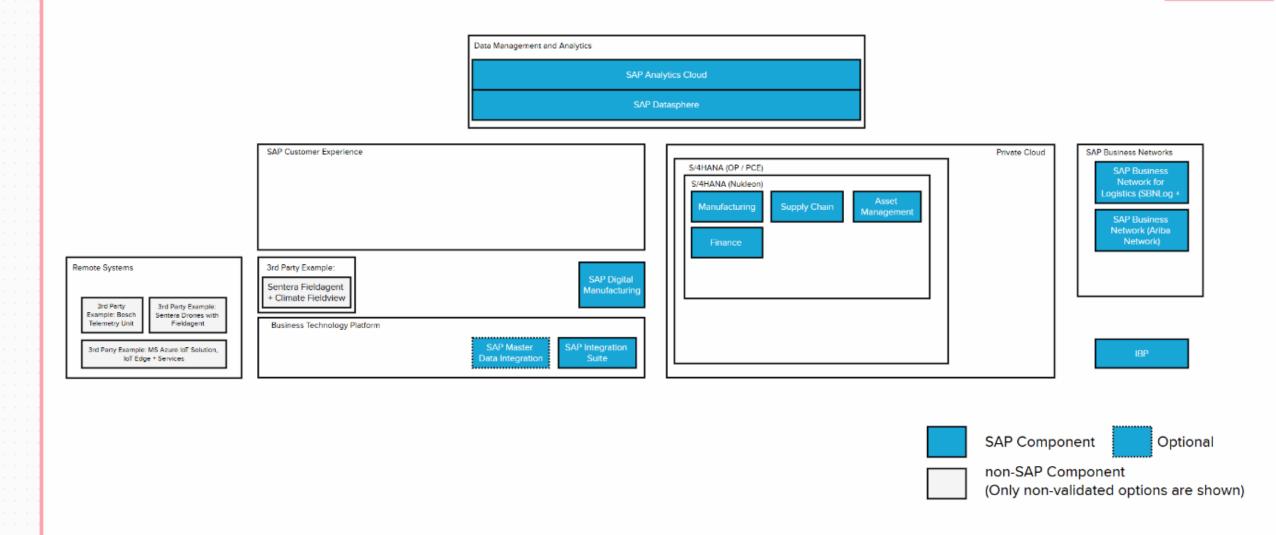
Solution / Product Mapping (Working Sheet)

и**3**с





Target Application Architecture Overview Diagram

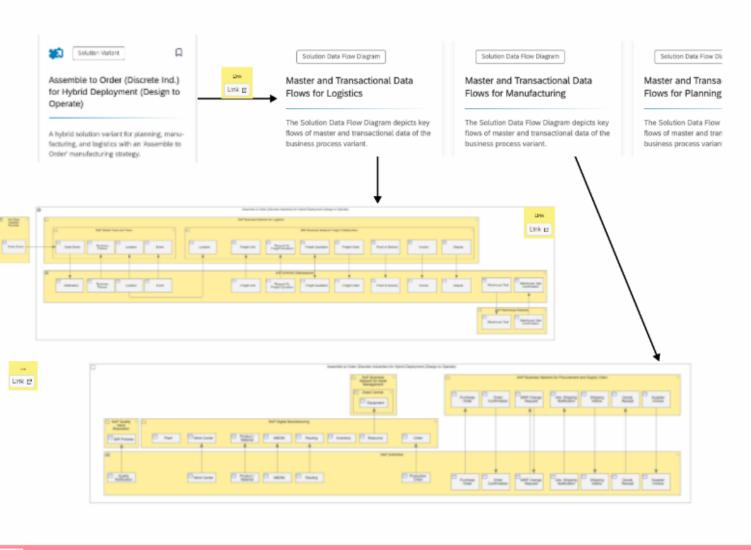


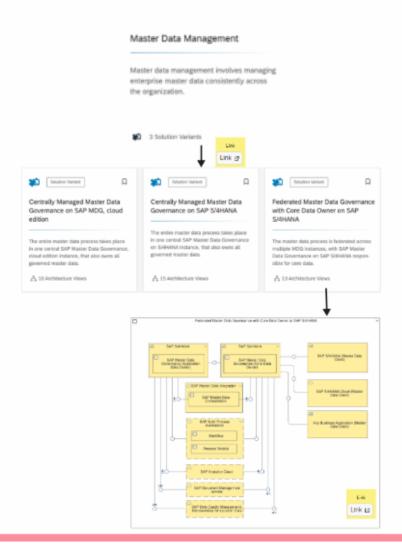
Additional Discussion: Data Architecture

SAP Reference Solution Architecture - Data Flow Diagrams

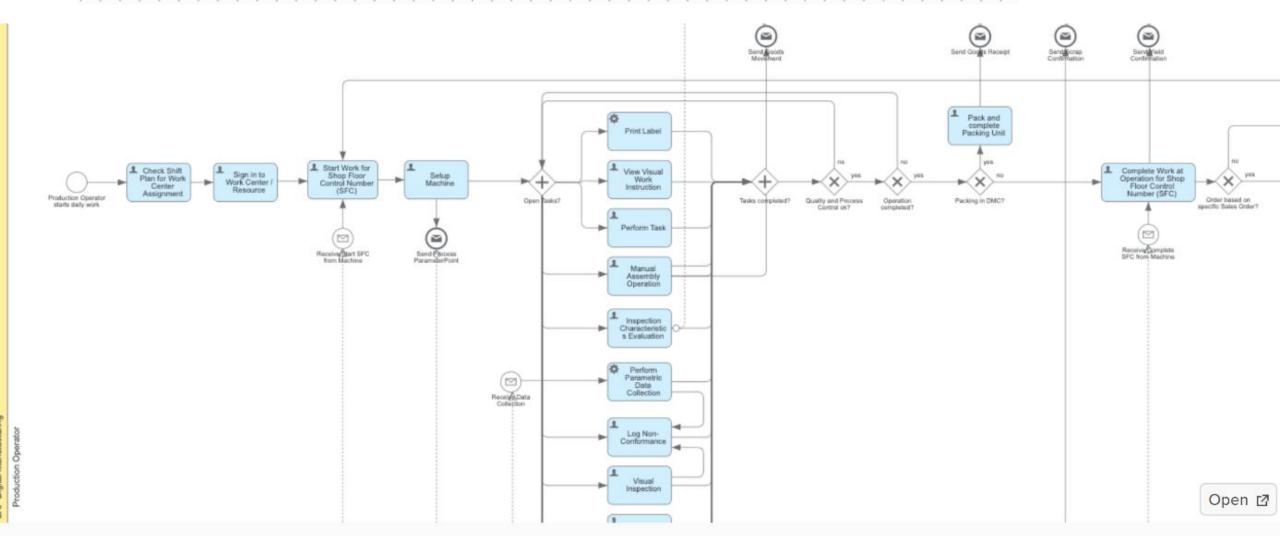
(see https://api.sap.com/allprocess)

Example: Plan to Fulfill / Variant: Assemble to Order (Design to Operate) for Hybrid

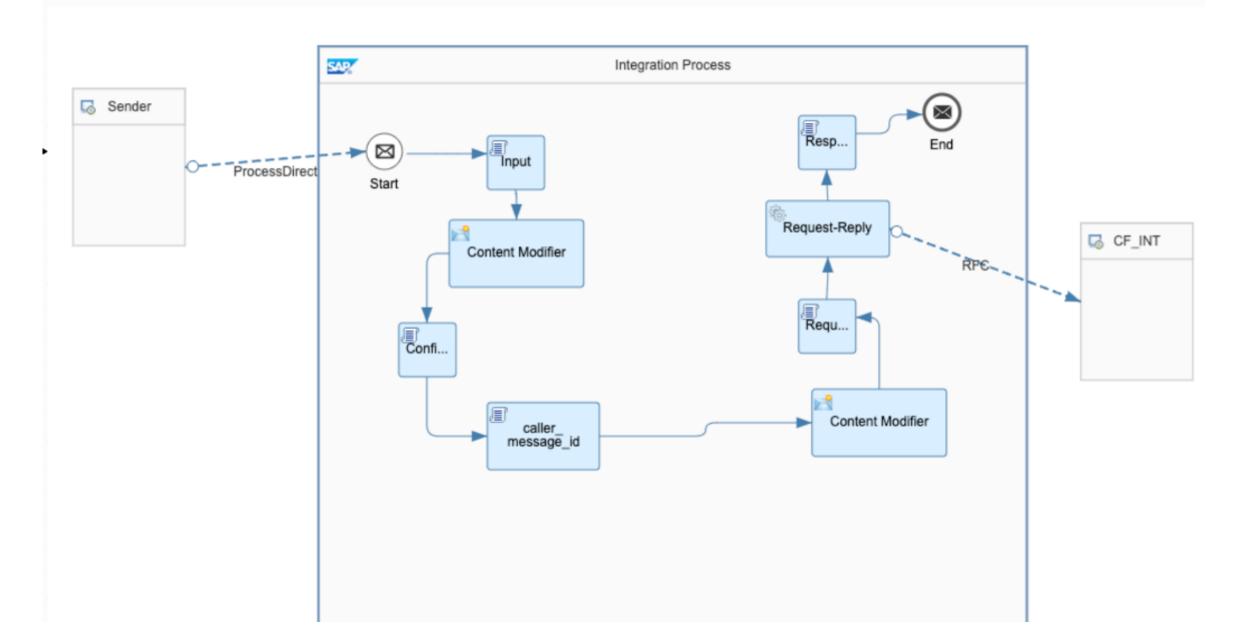




https://api.sap.com/cd/PF1H1-SPFProductionExecutionOrchestrationinclMachineIntegration



SAP Cloud Integration - Integration Process Flow Artefact https://api.sap.com/integrationflow/componentAdd_STD_SERVICE



Architecture Decision: Plat_1010

Name: Dedicated cloud solution for Customer Experience

Decision was taken to leverage dedicated cloud solutions for better customer experience (for example Commerce Cloud

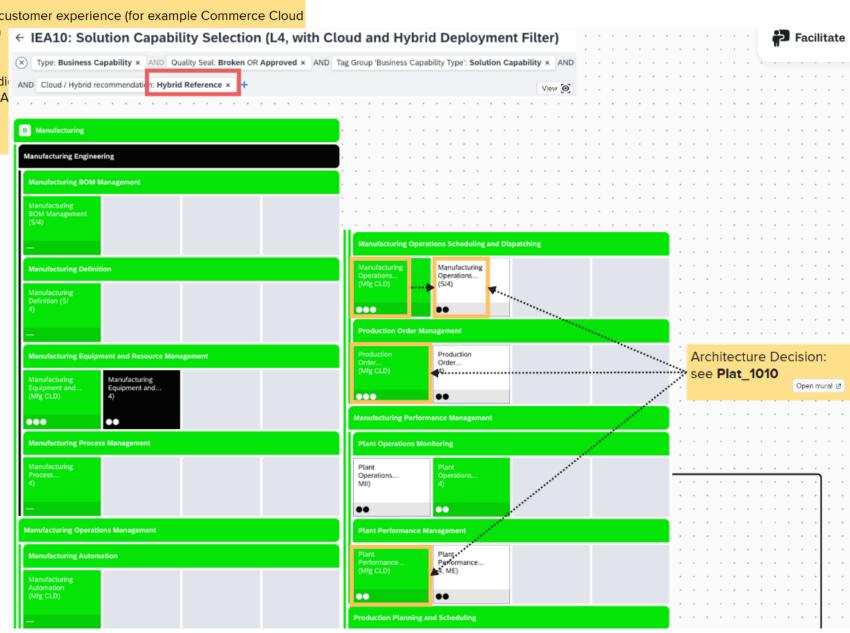
instead of customers accessing S/4HANA backoffice system directly)

Rational:

Better customer experience through faster innovation cycles and dediseparation of user access management (see "Cloud-first Strategy" in A

Last Changed / Owner:

2024-03-21: Stefanie Rock (N3C) / Anna Musterfrau (SAP)



IEA10: Select Applications for Solution Capabilities in scope (with Cloud and Hybrid Deployment filter)

Type: Business Capability x Scope: Opportunity, In Scope, Pain Point x Applications: (Hybrid) x Tag Group 'Business Capability Type': Solution Capability x

	Display Name †	Full Name		Applications: Display Name
			Re	rence: SAP S/4HANA
Manufacturing / M	nufacturing Engineering / Manufacturing BOM Management / Manufacturing BOM Management (S/4)	Manufacturing BOM Management (S/4)	Re	rence: SAP S/4HANA
Manufacturing / M	nufacturing Engineering / Manufacturing Definition / Manufacturing Definition (S/4)	Manufacturing Definition (S/4)	Re	rence: SAP Digital Manufacturing
			Re	rence: SAP S/4HANA
Manufacturing / M	nufacturing Engineering / Manufacturing Equipment and Resource Management / Manufacturing Equipment and Resource	Manufacturing Equipment and Resource Management (Mfg \dots	Re	rence: SAP Digital Manufacturing
Manufacturing / M	nufacturing Engineering / Manufacturing Equipment and Resource Management / Manufacturing Equipment and Resource	Manufacturing Equipment and Resource Management (S/4)	Re	rence: SAP S/4HANA
Manufacturing / M	nufacturing Engineering / Manufacturing Process Management / Manufacturing Process Management (S/4)	Manufacturing Process Management (S/4)	Re	rence: SAP S/4HANA
Manufacturing / M	rufacturing Operations Management / Manufacturing Automation / Manufacturing Automation (Mfg CLD)	Manufacturing Automation (Mfg CLD)	Re	rence: SAP Digital Manufacturing
			Re	rence: SAP Manufacturing Integration an
			Re	rence: Software AG Trendminer
Manufacturing / M	nufacturing Operations Management / Manufacturing Execution / Manufacturing Execution (Mfg CLD)	Manufacturing Execution (Mfg CLD)	Re	rence: SAP Digital Manufacturing
			Re	rence: Software AG Trendminer
Manufacturing / M	nufacturing Operations Management / Manufacturing Operations Scheduling and Dispatching / Manufacturing Operations S	Manufacturing Operations Scheduling and Dispatching (Mfg \dots	Re	rence: SAP Digital Manufacturing
Manufacturing / M	nufacturing Operations Management / Production Order Management / Production Order Management (Mfg CLD)	Production Order Management (Mfg CLD)	Re	rence: SAP Digital Manufacturing
Manufacturing / M	nufacturing Performance Management / Manufacturing Analytics / Manufacturing Analytics (S/4)	Manufacturing Analytics (S/4)	Re	rence: SAP Analytics Cloud
			Re	rence: SAP BW/4HANA
			Re	rence: SAP Datasphere
			Re	rence: SAP S/4HANA
Manufacturing / M	nufacturing Performance Management / Plant Operations Monitoring / Plant Operations Monitoring (S/4)	Plant Operations Monitoring (S/4)	Re	rence: SAP S/4HANA
Manufacturing / M	nufacturing Performance Management / Plant Performance Management / Plant Performance Management (Mfg CLD)	Plant Performance Management (Mfg CLD)	Re	rence: SAP Digital Manufacturing
			Re	rence: SAP Manufacturing Integration an
			Re	rence: Software AG Trendminer
Manufacturing / P	duction Planning and Scheduling / Material Requirements Planning / Material Requirements Planning (IBP)	Material Requirements Planning (IBP)	Re	rence: SAP Integrated Business Planning

Select the required Solution Capabilities for the Business Capabilities in scope (Solutioning, with Hybrid ← IEA10: Solution Capabilities Selection for Business Activities and Capabilities in scope (with Cloud and Hybrid Deployment Filter) Type: Business Capability × AND Quality Seal: Broken OR Approved × AND Business Contexts: Advanced Filter × AND Parents: Advanced Filter × AND Cloud / Hybrid recommendation: Hybrid Reference × B Make to Stock (discrete mfg, scheduling agreement) Make to Inspect (discrete mfg) Operate manufacturing (discrete) Production Order... 4) Manufacturing Manufacturing Manufacturing Manufacturing Plant Plant Collaboration Equipment and... Equipment and... Execution (S/ Operations... Operations... Performance. Performance... (EPD) 4, ME) (5/4)MIII) ... 8 ... •• ... • • •• •• Production Order... 4) ... •• Perform production planning and scheduling NOTE: Additional reguired BCs, SCs and Applications Identified through Process-driven Approach Material Requirements... ...

Technology Architecture

Customer Case Study: N3C

INTERNAL



Tech Capabilities /

Supporting

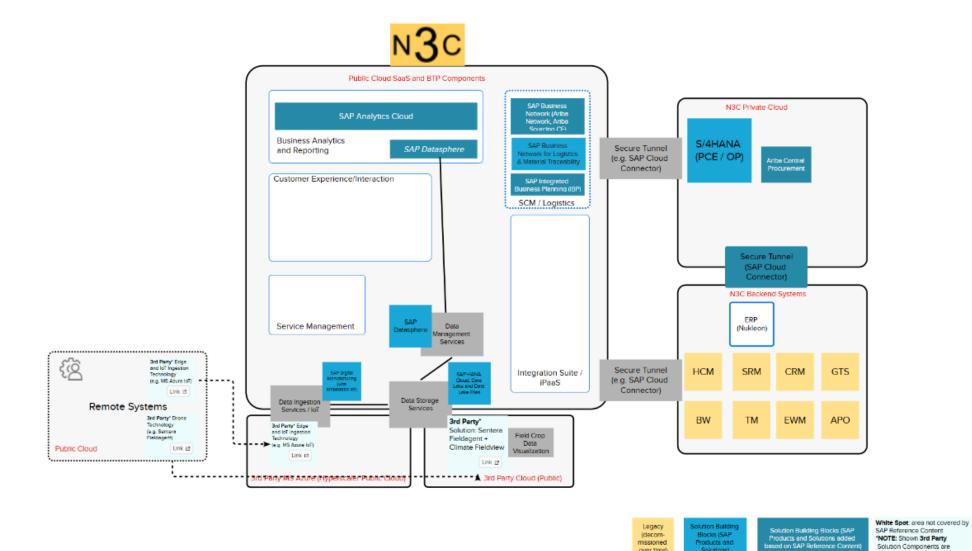
Services

options and were not validated)

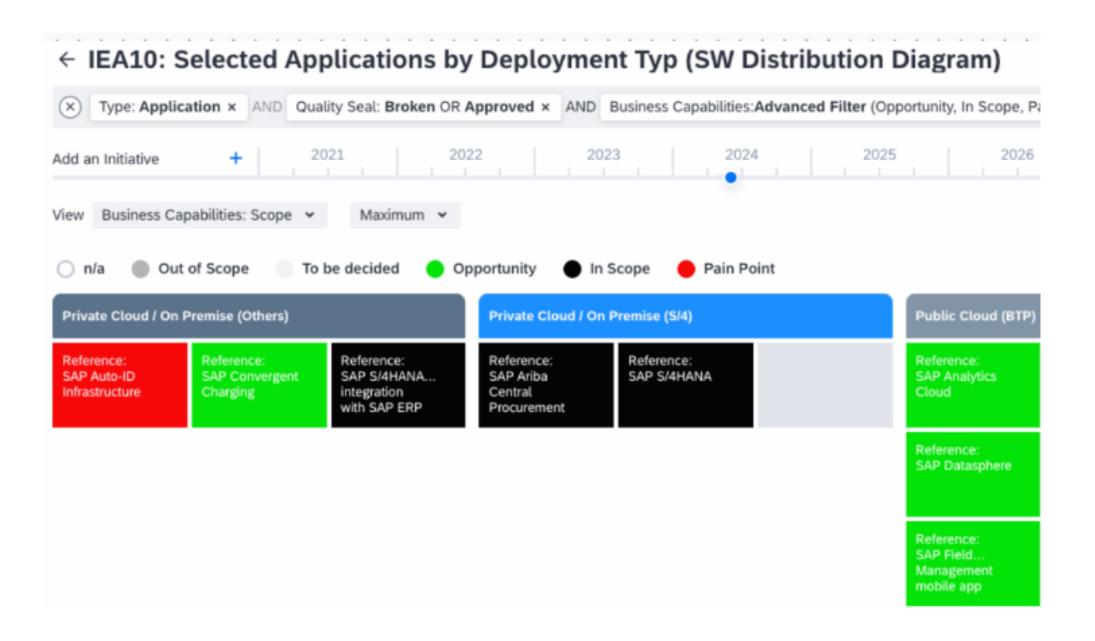
Solutions)

itallic = optional

Objective: Build Software Distribution Diagram

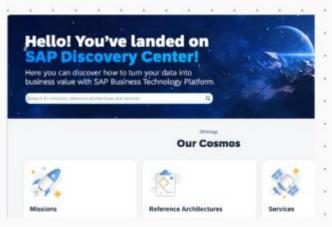


• The Software Distribution Diagram is part of the Application Architecture. It provides an abstract input for the Environments & Location Diagram



SAP Data Center Infos: use SAP Trust Center and Discovery Center





Architecture Decision: Plat_2010

Name: S/4HANA Private Cloud Edition in DC in North Virginia/U.S.

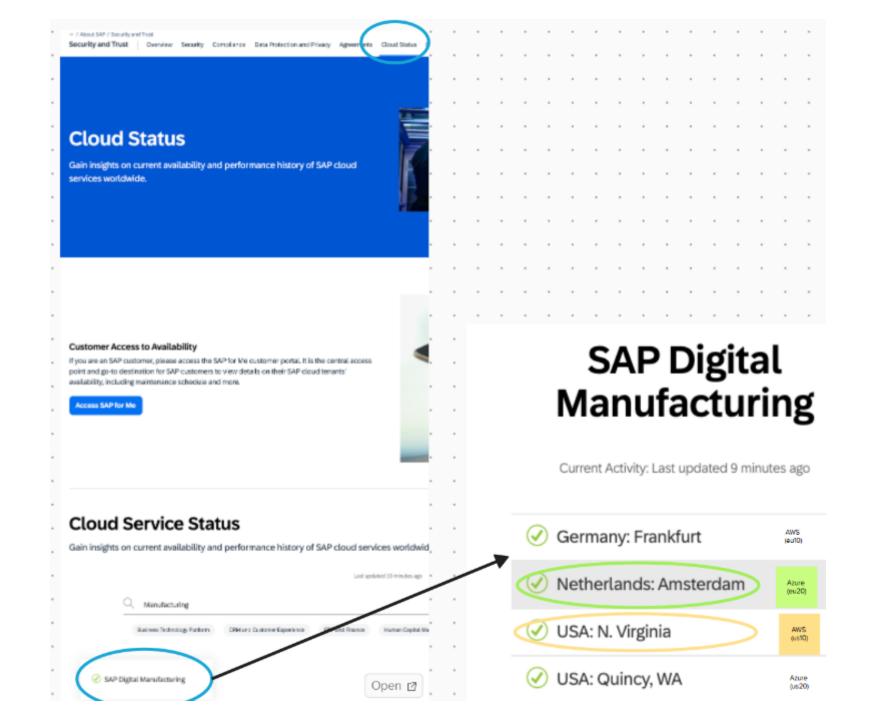
The SAP DC North Virginia/U.S. was chosen S/4HANA Private Cloud Edition

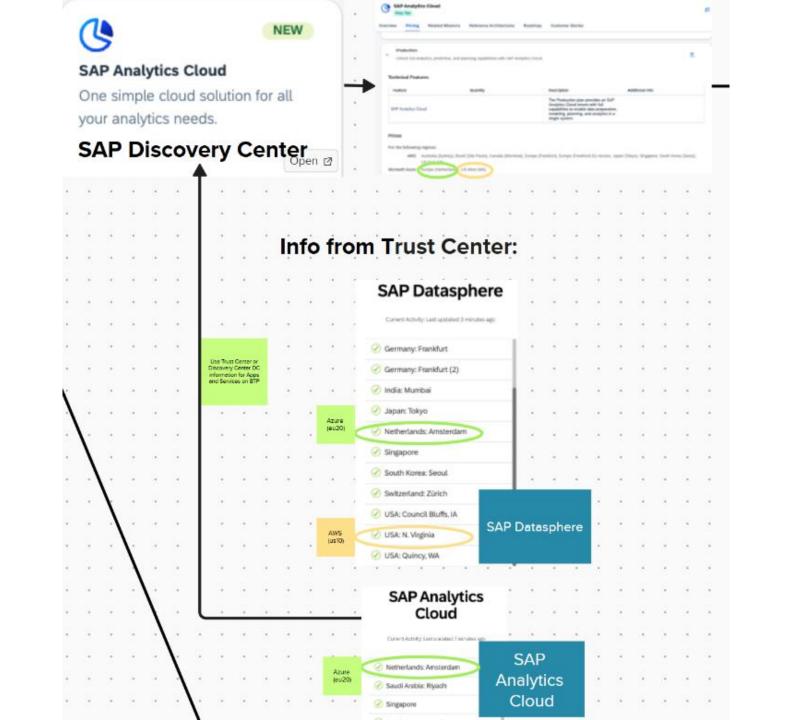
Rational:

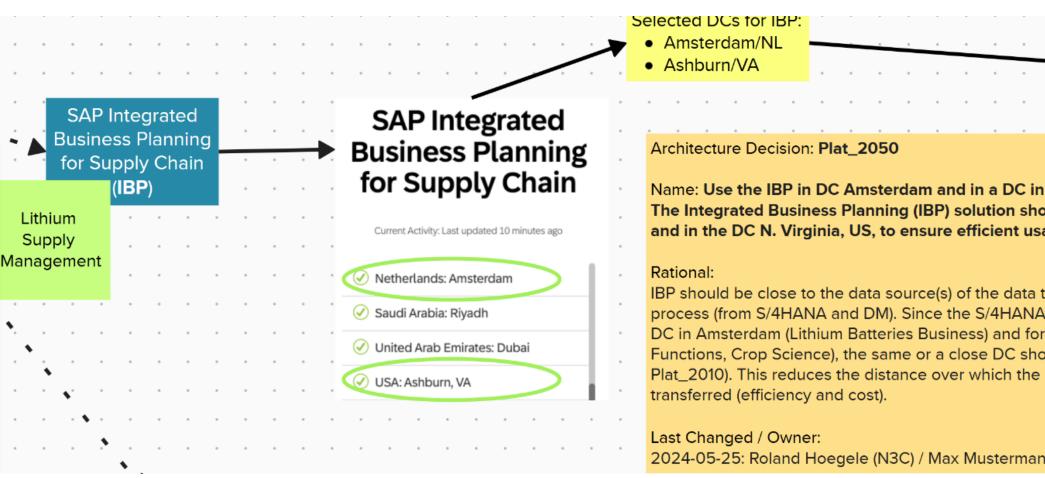
We need to apply to GxP regulations in general (see Plat_1001) but do also prefer cloud offering over own on premises operated systems (see Architecture Principles "Cloud first strategy"). Therefore, the Private Cloud Edition is the selected approach (own ERP system but operated by the IT partner SAP).

The Architectural Principles define a multi Hyperscaler strategy. Therefore, an AWS data center in the U.S. was selected, also due to closest availability.

Last Changed / Owner: 2024-05-13: Roland Hoegele (N3C) / Max Mustermann (SAP)







Name: Use the IBP in DC Amsterdam and in a DC in N. Virginia, U.S. (e.g. Ashburn) The Integrated Business Planning (IBP) solution should be used in DC in Amsterda and in the DC N. Virginia, US, to ensure efficient usage of planning data.

IBP should be close to the data source(s) of the data that is required for the planning process (from S/4HANA and DM). Since the S/4HANA PCE systems are planned for the DC in Amsterdam (Lithium Batteries Business) and for the DC in N. Virginia (Corporate Functions, Crop Science), the same or a close DC should be used for IBP (see Plat_2010). This reduces the distance over which the planning data needs to be

2024-05-25: Roland Hoegele (N3C) / Max Mustermann (SAP)

Selected DCs for Ariba:

Council Bluffs/IA, U.S.

SAP Ariba Sourcing SAP Ariba Procurement

Current Activity: Last updated 8 minutes ago

- Australia: Sydney
- China: Shanghai
- Germany: Frankfurt
- Japan: Tokyo
- Saudi Arabia: Riyadh
- ✓ United Arab Emirates: Dubai

Open 🗗

USA: Council Bluffs, IA

Architecture Decision: Plat_2030

Name: Use the Logistics Procurement/Invoicing and Sourcing/Supplier Mgmt (Ariba) in DC in Council Bluffs, IA, U.S.. Use the major functions of the wordwide Logistics collaboration network LBN (SAP Business Network for Logistics / LBN, Global Track and Trace) in DC Quincy/WA, U.S.

The Logistics Procurement/Invoicing and Sourcing/Supplier Mgmt (Ariba) should be located as close as possible to the site where the major corporate functions for the supply chain management and where the master ERP system are located. The LBN functions are for world-wide collaboration in DC Quincy/WA, U.S..

Rational:

The Logistics Procurement and Invoicing / Sourcing and Supplier Management (Ariba) should be located as close as possible to the location of the majority of the corporate functions (Greensboro/NC, U.S.).

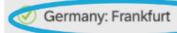
The location of the world-wide supplier collaboration network functions is not as crucial due to the nature of WW network solutions (select Quincy/WA, U.S.). Still it should be as close as possible to the corporate logistics and procurement functions (U.S.).

Last Changed / Owner:

2024-05-13: Roland Hoegele (N3C) / Max Mustermann (SAP)

SAP Business Network Global Track and Trace

Current Activity: Last updated 6 minutes ago



USA: Quincy, WA

SAP Business Network Material Traceability -Owner

Current Activity: Last updated 10 minutes ago



Selected DCs for LBN:

Quincy/WA, U.S.

Architecture Decision: Plat_2035

Name: Use the SAP Business Network Material Traceability in DC Frankfurt, DE.

The Logistics for the production material (Ariba) should be located as close as possible to the site where the major production and use of the materials takes place (basically close to the production site which uses the Lithium as supply --> Europe, e.g. Amsterdam/NL).

Rational:

Currently the Material Traceability part of SAP BN for Logistics is only available in DC Frankfurt/DE. Therefore, this option is taken.

Note that this decision needs to be revalidated when BN for Logistics Material Traceability will be also available in Amsterdam/NL or in DC Quincy, WA (U.S.).

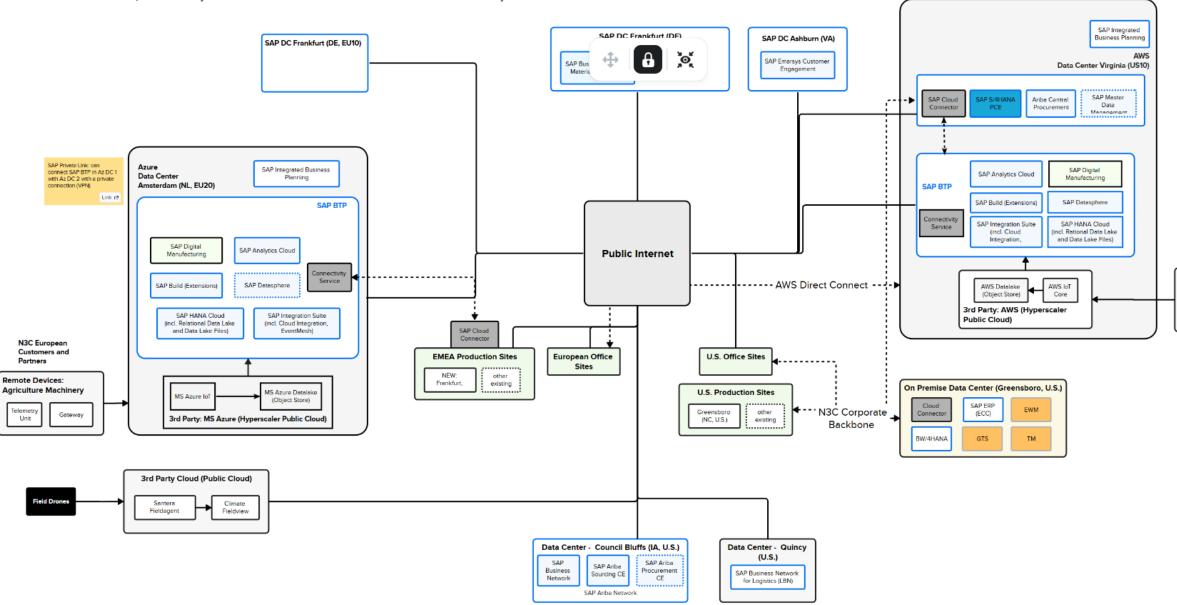
Last Changed / Owner:

2024-05-13: Roland Hoegele (N3C) / Max Mustermann (SAP)

Selected DCs for Network Material Traceability - Owner:

Frankfurt/DE

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.



C

N3C U.S. based

Customers and Partners

Agriculture Machinery

Remote Devices:

Unit

Opportunities and Solutions

Customer Case Study: N3C

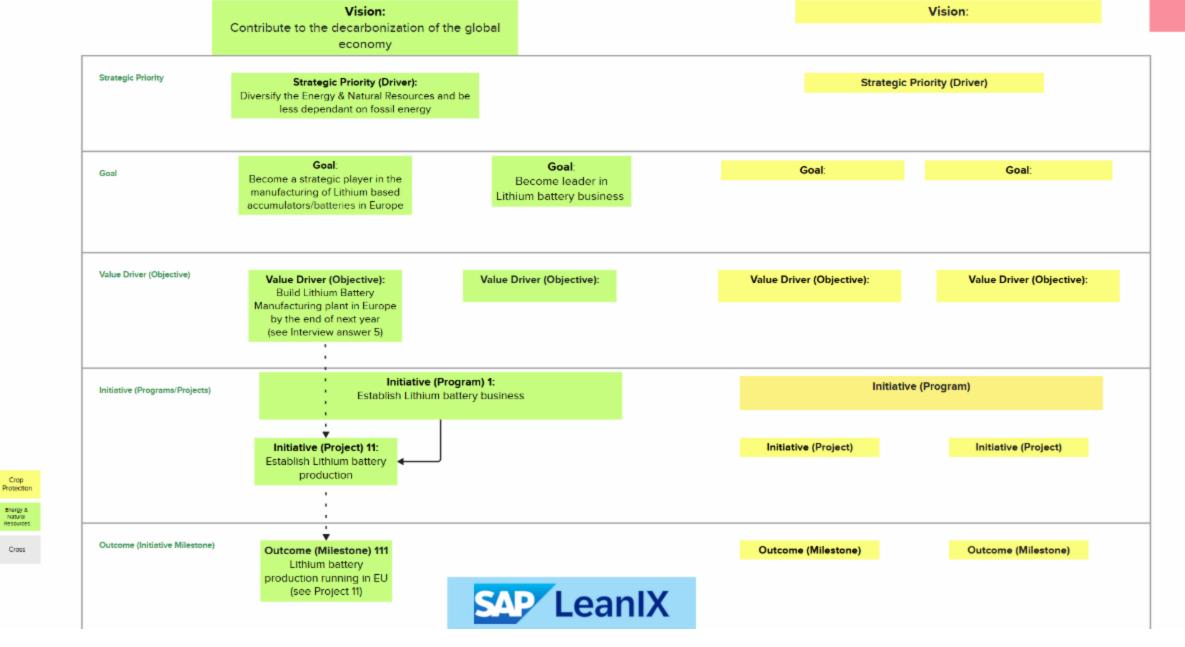
INTERNAL



Objective: Build Business Strategy Map

Crop

Cross

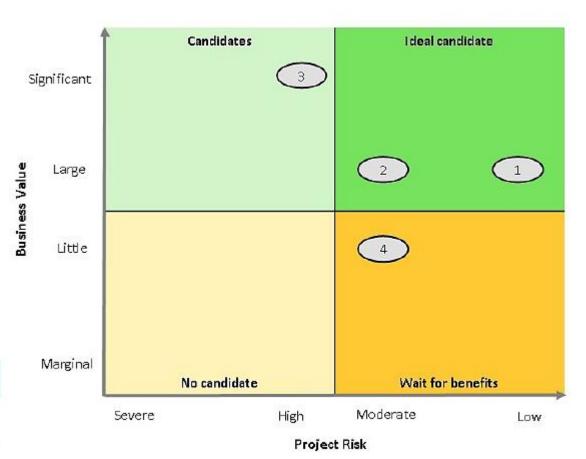


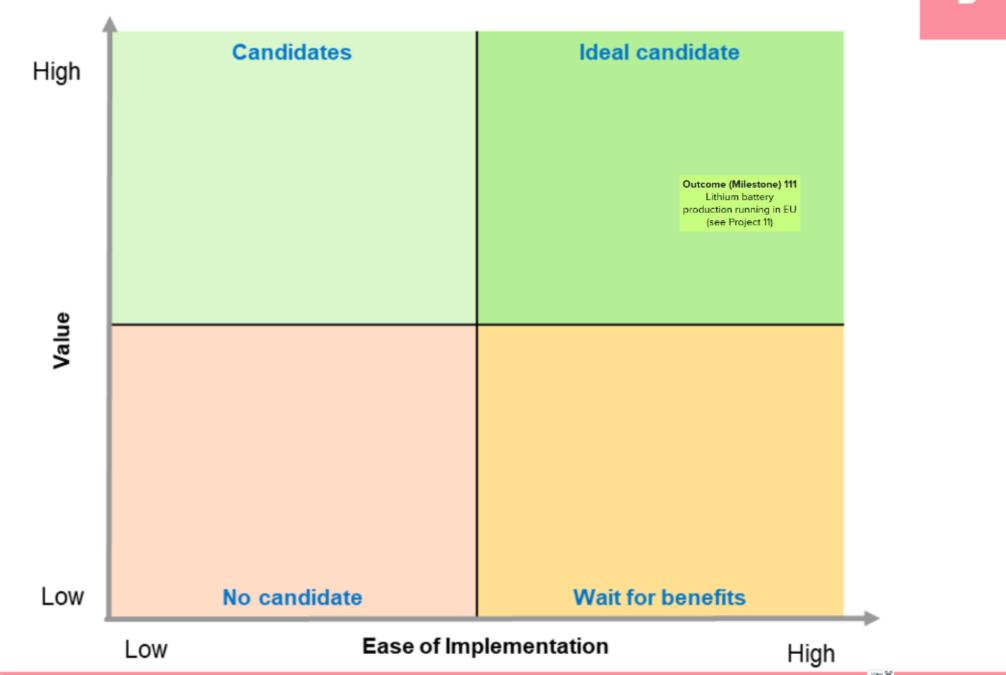
Initiative Catalog

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 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		







Input from **Business** Capability Map

Input from Application Architecture



С			
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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)	Tim eli ne
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)	Tim eli ne

Expected outcome from capability implementation

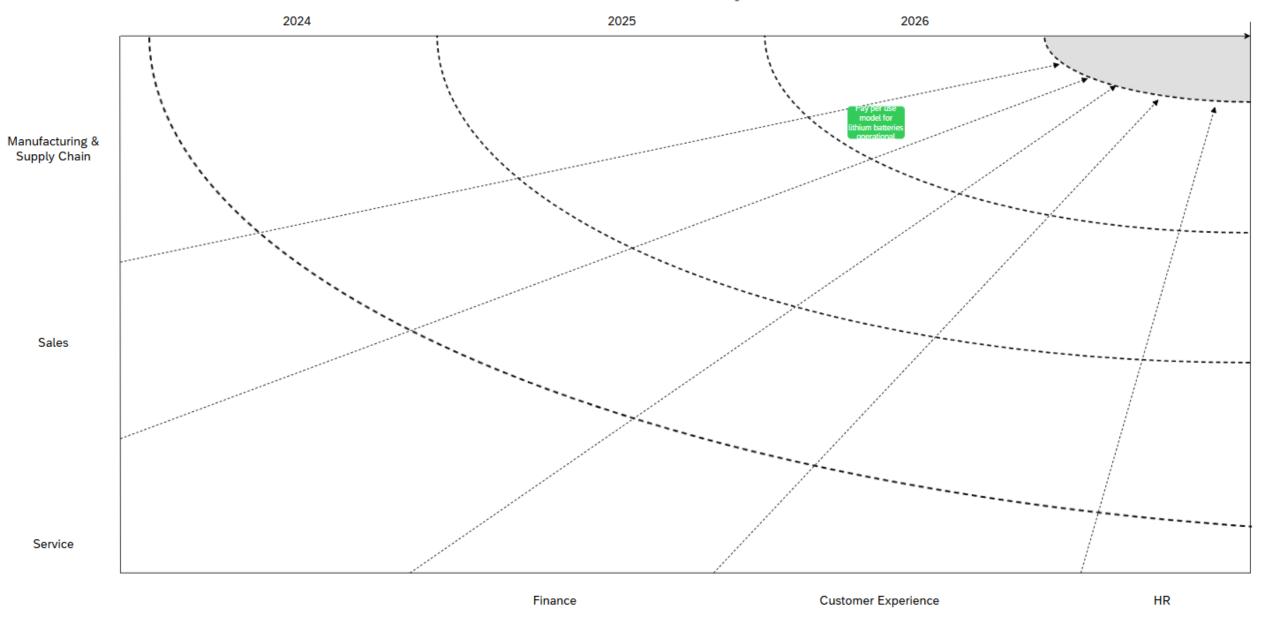
Identify dependencies between roadmap elements

Expected timeline - incl. quick-wins for value realization

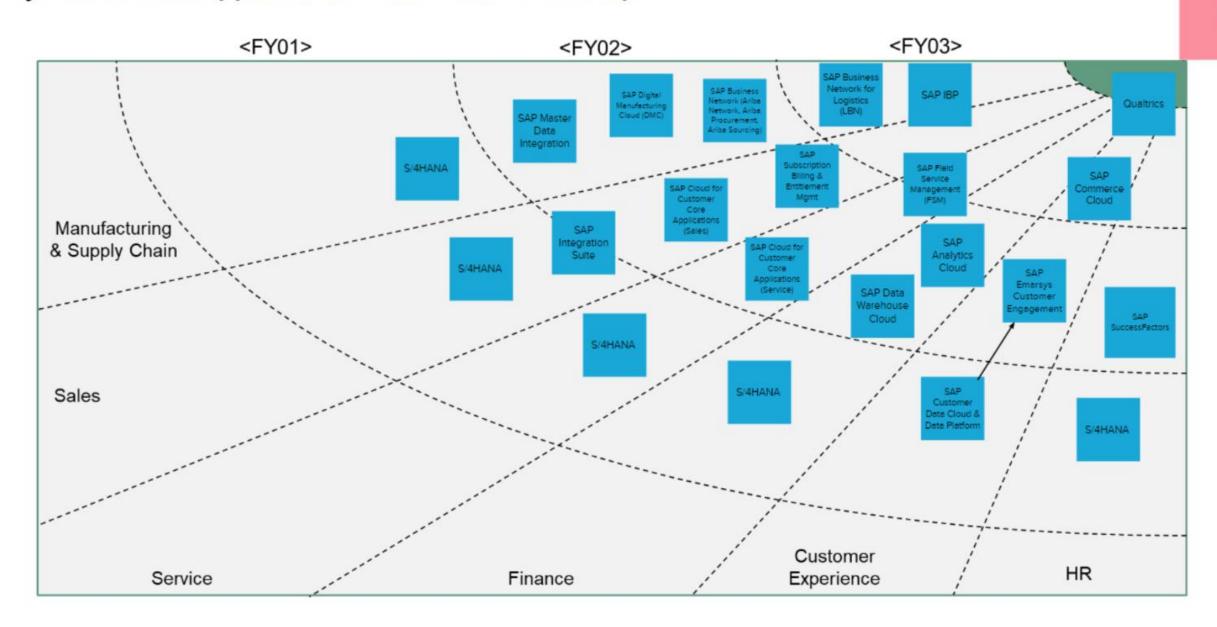
Construction Table for Architecture Roadmap

		construction i	able for / tr		Reddillap		
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:
S ource: Initiative Catalog / Strategy Map		Source: S trategy Map	Stakeholder Interview answer		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	Manufacturing plant in	Manufacturing, Production, Plant	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						

Architecture Roadmap

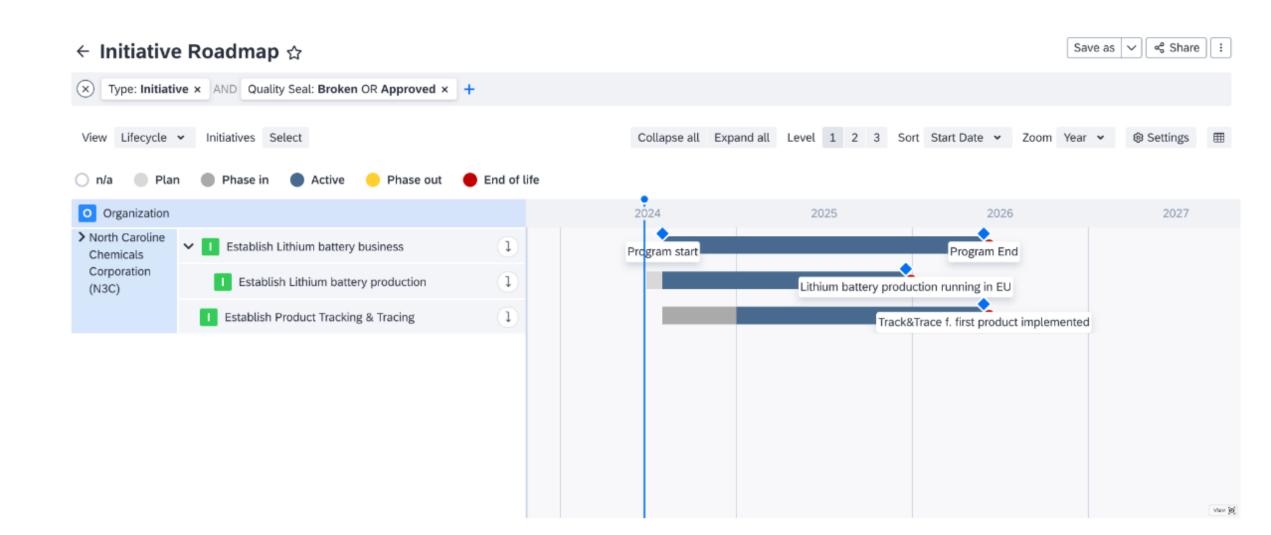


Objective: Build Application Architecture Roadmap



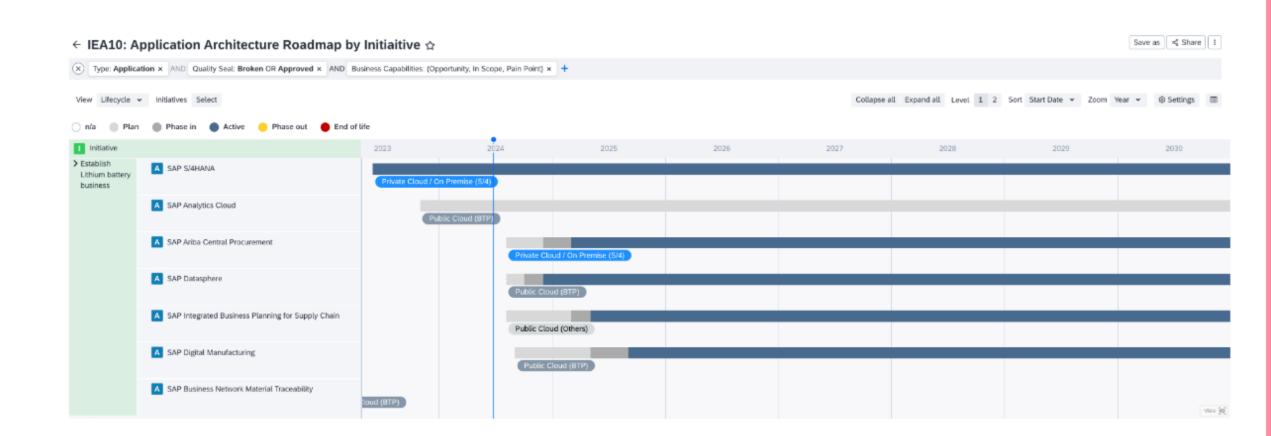






Objective: Build Application Architecture Roadmap





: <customer></customer>						
t: Interest-Datenbari	k					
n: v1.0 - 13.10.2020						
Assumptions						
	is based on the following assumptions. Please also pay attention to the notes on individual					
activities in the cor						
No						
1	The required application systems for the PoC are provided by SAP. They cannot be used beyond the duration of the PoC.					
2	The matching conditions are derived from the entire backend system (ECC or S/4HANA).					
3	Standard security models are used for all components involved; a <customer>-specific security model implementation is not covered.</customer>					
4						
		fffor	t [FD]			
Phase	Activity	min	max	Role	Level	Comments
	Setup Access to PoC CPI Instance	1	1	TA	38	
Setup	Setup Access to PoC SAP Sales Cloud Instance - Check pre-requisites - Configure Environment: create users/assign privileges, -roles - Configure Activity Management - Configure Ticketing	4	6	TA/CD	SE	
	subtotal	5	7			
Analysis	Data Discovery - Validation of Entity Types, Data understanding	1	2	TA/CD	SE/SP	
	- Analysis of matching algorithm	2	3	TA/CD	5E/3P	
	subtotal	3	5			
	Entity Type: Prospect					
	- Definition	1	1,5	TA/CD	32	
	Entity Type: Object (real estate)					
	- Definition	1	1,5	TA/CD	SE	
	Entity Type: Campaign (contact prospects for real estate object)					
	- Definition	1	1,5	TA/CD	SE	
	Relationships					
	E-Mail, schedule, phone call - Object	1	1,5	CD	SE	
	Ticket - Object 1:N	1	1,5	co	SE	
	Campaign - Object 1:N	1	1,5	CD	SE	
	Campaign – E-Mail 1:N	1	1,5	co	SE	
	Navigation across relations	3	4	сю	SE	
	User Interfaces					
	Object search profile	1	2	CD	SE	
	360-degree-view (add. Tab in customer view)	4	6	CD	SE	
	360-degree-view (add. Tab in customer view) Object	4	6	CO	SE	
		1	2	CD	SE	