BEAT THE ZUGSWANG



Rajeev Dev Digital ERP Head, Nihilent

https://www.linkedin.co m/in/rajeev-dev-a4a237/



/ Humanizing Technology



Zugzwang

[/ˈzʌgzwaŋ,ˈzuːgzwaŋ/] Derivation - German

A chess term referring to a situation in which the obligation to make a move in one's turn is a serious disadvantage

THE REALITY



Enterprise Solutions

LCNC Solutions

Cloud Applications

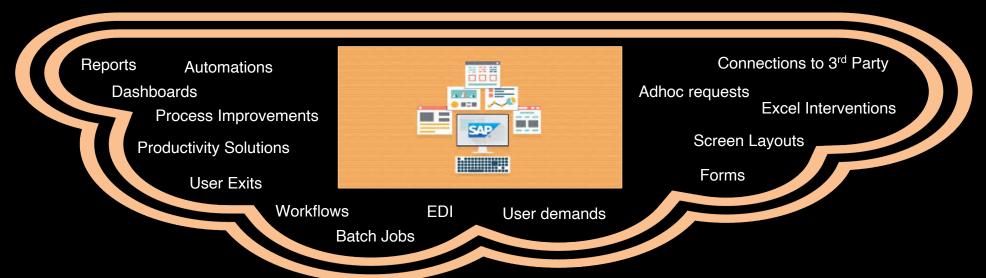
SaaS solutions

Platforms

Legacy Applications

SYSTEM OF RECORD





THE ASPIRATION



SUSTAINABILITY at the top of the agenda

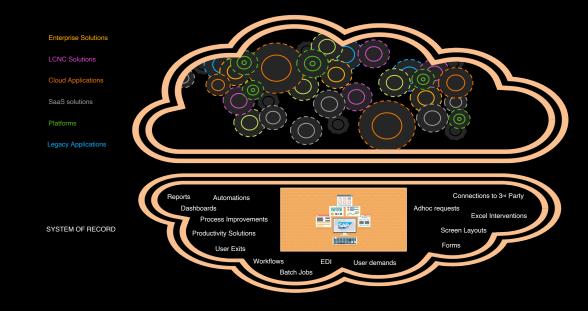
CONNECTED Supply Chain

Enhanced Customer EXPERIENCE

DATA Driven Decision making

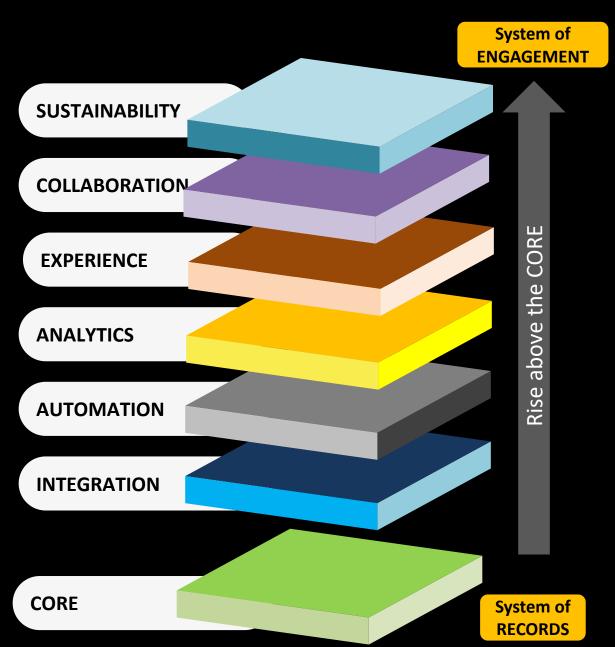
OPERATIONAL excellence

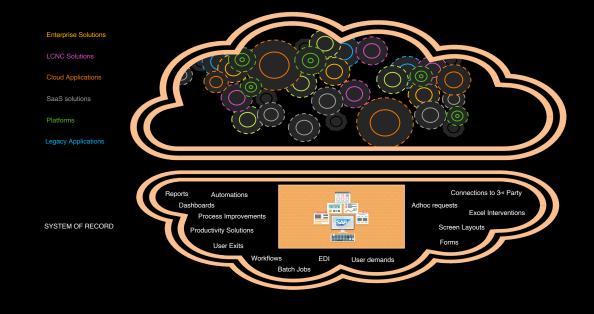
VISIBILITY across the organization & beyond



THE SOLUTION







SUSTAINABILITY at the top of the agenda

CONNECTED Supply Chain

Enhanced Customer E X P E R I E N C E

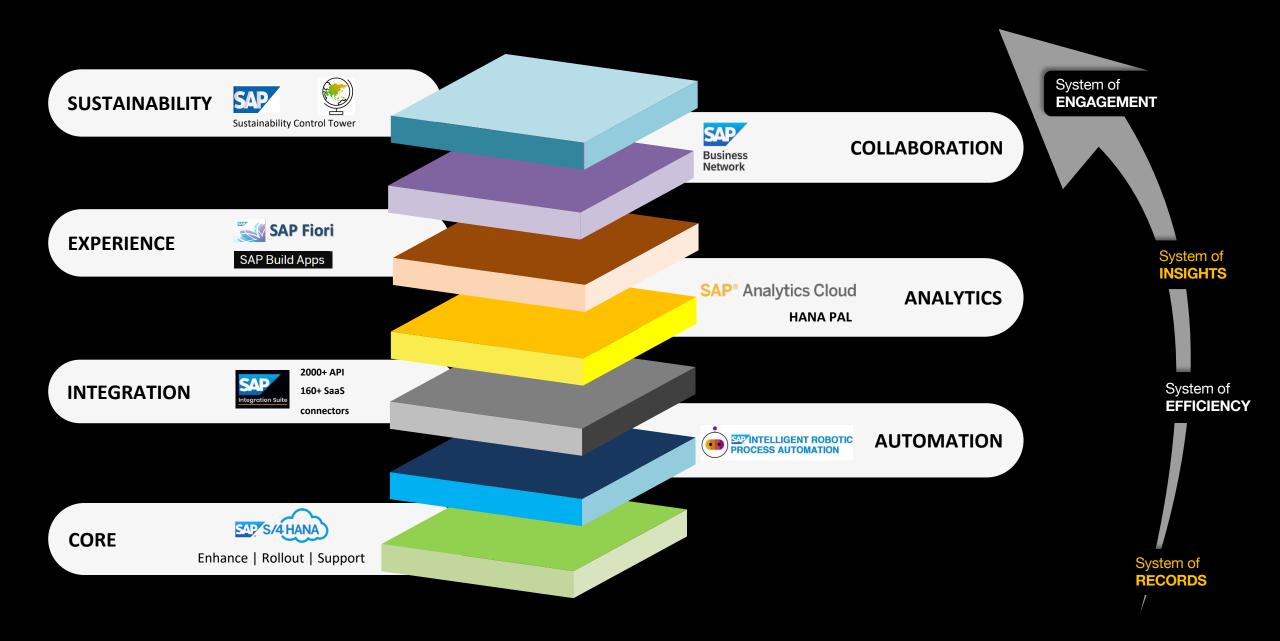
DATA Driven Decision making

OPERATIONAL excellence

VISIBILITY across the organization & beyond

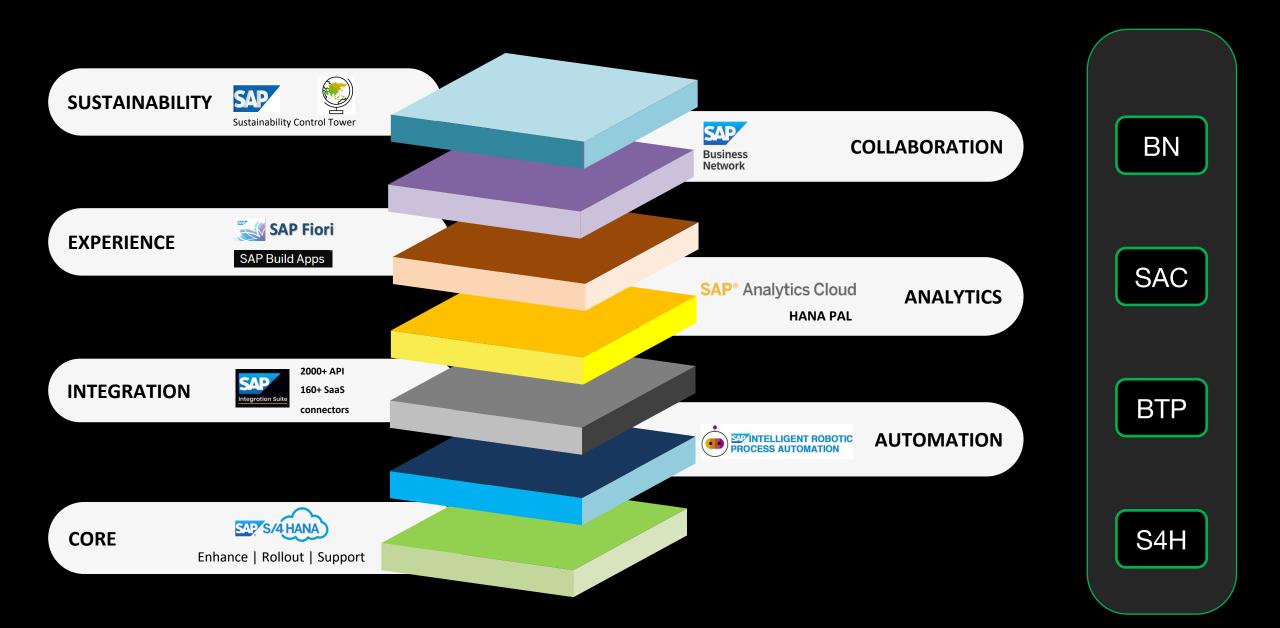
The Solution





The Solution





The Solution Providers

PROVIDER	SAP	Microsoft	salesforce	Others	Nihilent
COLLABORATION	Business Network Logistics Ariba Asset Intelligence	Microsoft Power Platform ♦ 1 ≫ SharePoint	Salesforce CDP Innovations For Smarter Customer Interroctions		ingage itong
EXPERIENCE	SAP Fiori	.NET SharePoint	salesforce experience cloud	servicenow	Artoreal emëscape
ANALYTICS	SAP® Analytics Cloud SAP® Datasphere	OneLake OneLake Fabric Power BI Synapse	+ a b e a u Data Cloud	amazon REDSHIFT Amazon REDSHIFT Amazon REDSHIFT BigQuery	RESENSE.
INTEGRATION	SAP Integration Suite	Azure Data Factory	MuleSoft [*]	servicenow. boomi	
WORKFLOW	SAP Build Process Automation	Microsoft Power Platform	MuleSoft RPA SALESFORCE FLOW	servicenaw. Ui Path	
CORE	SAP SuccessFactors	Microsoft Dynamics Office 365	Sales Service Marketing Commerce		

/ Humanizing Technology **RISE WITH SAP** Custom Process Standard Process On Premise **S/4 ECC** RISE / GROW with SAP BTP **BTP** SAC

Business Network

RISE IS NOT AN UPGRADE



ECC Universe CO - Controlling Cost Center Accounting

Internal Order Accounting Product Cost Accounting Profit Center Accounting Profitability Accounting Project Accounting

FI - Financial Accounting

Accounts Payable Accounts Receivable Balance Sheet Bank Accounting Cash Flow Statement Credit Management Fixed Assets Accounting

General Ledger IAS, US GAAP, Local GAAPs Profit & Loss Statement

Segment Reporting & Notes Tax Accounting LE - Logistics Execution

Delivery Processing Transportation Execution

MM - Materials Management Contract Management

Demand Determination Direct Material Procurement

External Service Procurement Goods issue

Goods Receipt

Inventory Controlling nvoice Verification Material Valuation

Physical Inventory Management

Purchasing Statistics Reservations

Source Determination

Source Selection Stock Transfer

Vendor Evaluation PP Production Planning

Batch Management

Materials Requirements Planning Production

Production Statistics

Sales and Operations Planning QM - Quality Management

Quality Control

Quality Engineering SD - Sales and Distribution

Automatic Partner Determination Automatic Text Handling

Availability Check

Billina

Credit Management and Credit Check

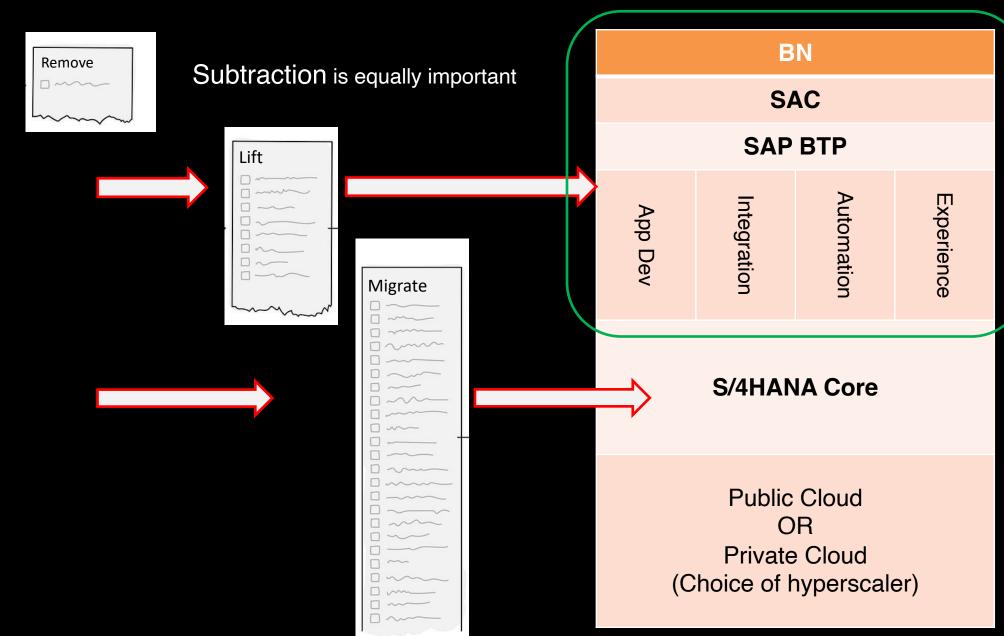
Inquiries Pricing

Product Listing & Exclusion Product Substitution

Quotations Sales Activities

Sales Analytics

Sales Orders



RISE IS A TECHNOLOGICAL ADVANCEMENT



ECC/S4 On Prem

CO - Controlling Cost Center Accounting Internal Order Accounting Product Cost Accounting Profit Center Accounting Profitability Accounting Project Accounting FI - Financial Accounting Accounts Payable Accounts Receivable Balance Sheet Bank Accounting Cash Flow Statement Credit Management Fixed Assets Accounting General Ledger IAS. US GAAP. Local GAAPs Profit & Loss Statement Segment Reporting & Notes Tax Accounting LE - Logistics Execution Delivery Processing Transportation Execution MM - Materials Management Contract Management Demand Determination Direct Material Procurement External Service Procurement Goods issue Goods Receipt Inventory Controlling nvoice Verification Material Valuation Physical Inventory Management Purchasing Statistics Reservations Source Determination Source Selection Stock Transfer Vendor Evaluation PP Production Planning Batch Management Materials Requirements Planning Production Production Statistics Sales and Operations Planning QM - Quality Management Quality Control Quality Engineering SD - Sales and Distribution Automatic Partner Determination Automatic Text Handling Availability Check Billina Credit Management and Credit Check Inquiries Pricing Product Listing & Exclusion Product Substitution Quotations Sales Activities Sales Analytics

Distribute Your Current SAP Landscape Between S4H, BTP, SAC & BN

You will end up spending Keep the in all of Core these 4 Clean buckets

BN **SAC BTP** Experience **Data Services** S/4HANA

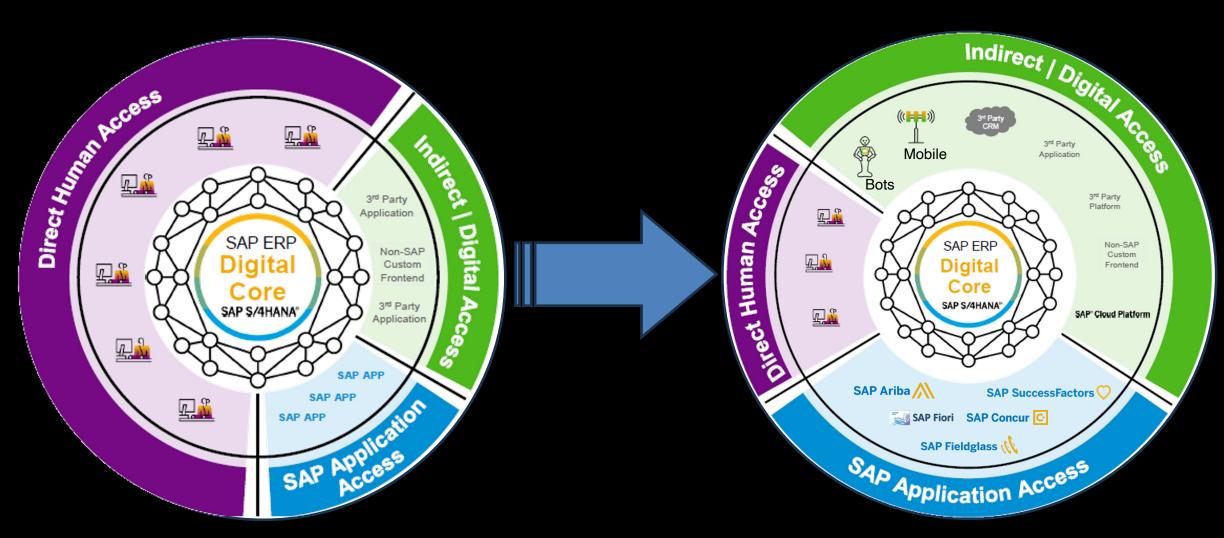
Sales Orders



Not Only Tech, The Way We Access Is Also Advancing

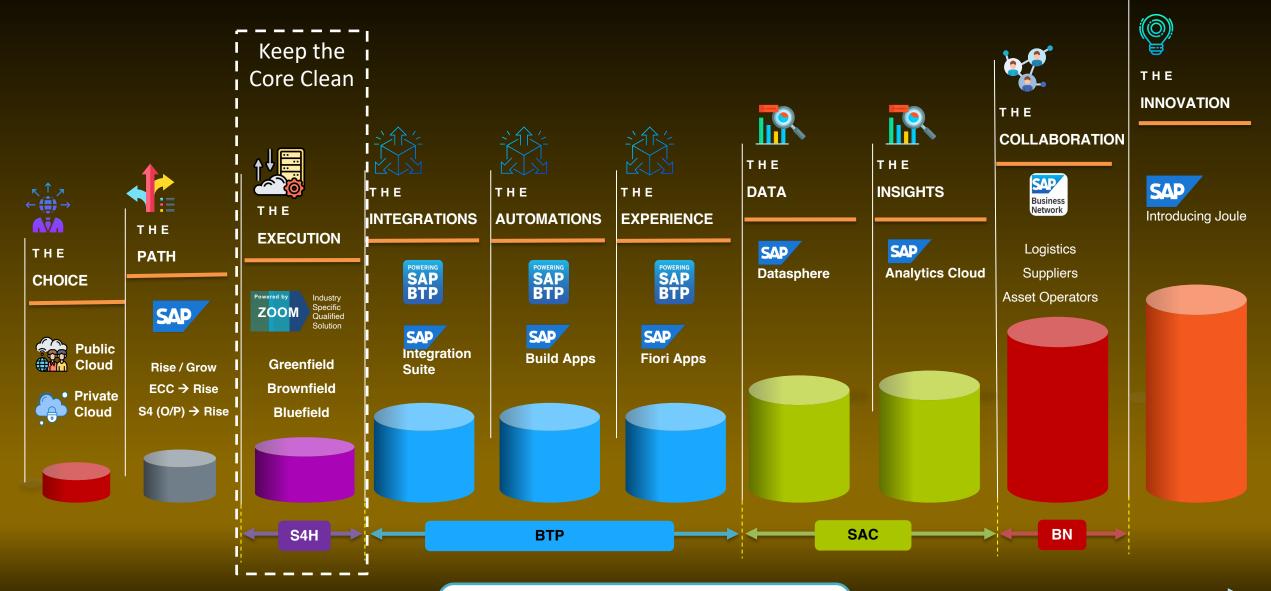
ERP use in 20th Century System

ERP use in 21st Century System



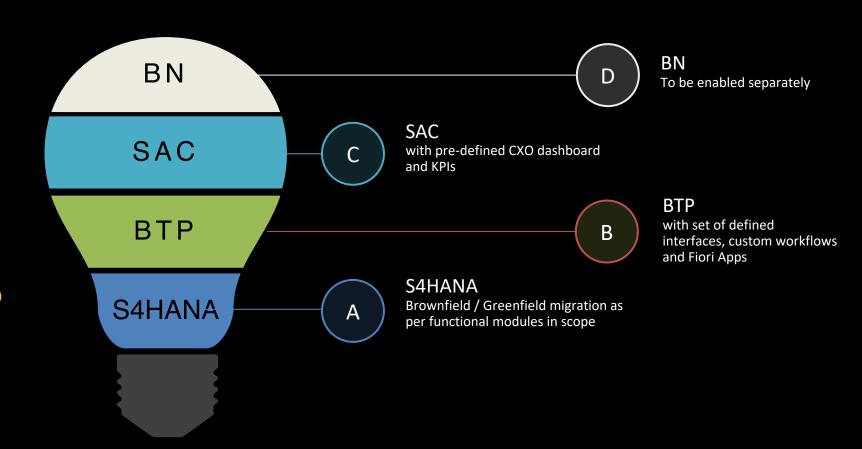
THE JOURNEY ALSO NEED CHANGE





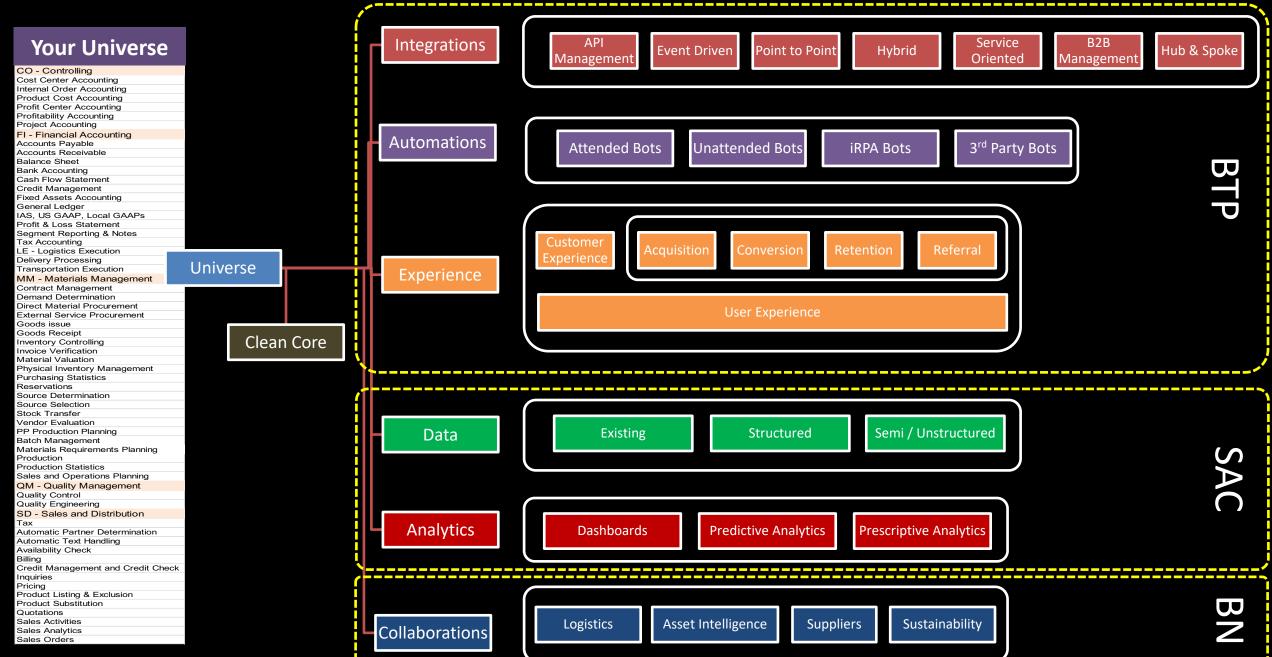
RISE

COMPONENTS





From Core To Clean Core

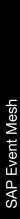


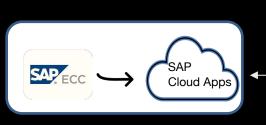
PRE-PACKAGED INTEGRATIONS





SAP Cloud Connector





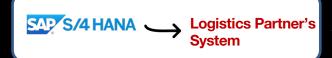
Hybrid

On-premises SAP ECC system with a cloudbased SAP SuccessFactors instance



Point to Point

SAP SuccessFactors with a specific payroll system



Event Driven

Real-time integration between SAP S/4HANA and a logistics partner's system, where inventory updates and delivery status changes trigger events

B2B Management

Build and Consume EDI interfaces like EDIFACT. ENCOM etc..



API Management

Build Rest API to connect to any 3rd party application using industry standards like Yaml



Hub & Spoke

SAP ERP with multiple external systems using SAP BTP Integration Pod as the central hub for data exchange and process orchestration.

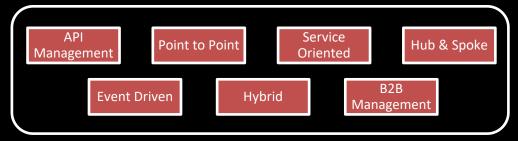


Service Oriented

Consuming third-party APIs within SAP S/4HANA to extend its capabilities, e.g. integrating with a payment gateway or a tax calculation service

Service Consumption

Finalize Integrations

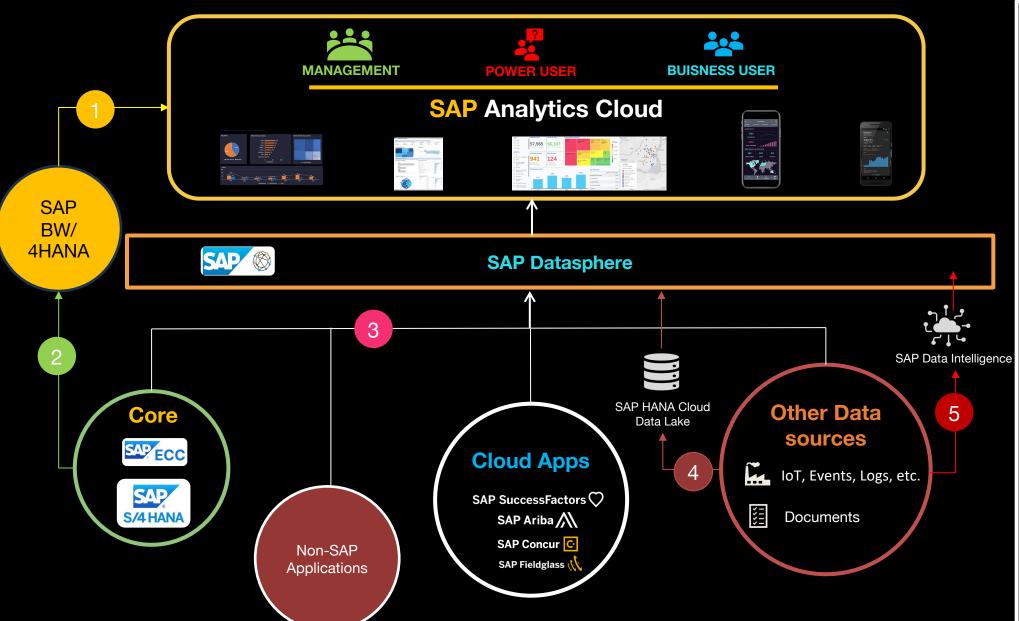


Sno.	Туре	Source	Target	Details of Integration
1	Point to Point	Success Factor	Payroll app	SAP SuccessFactors with a specific payroll system
2	Event Driven	S4H	Logistics partner system	Real-time integration between SAP S/4HANA and a logistics partner's system, where inventory updates and delivery status changes trigger events
3	Service Oriented	S4H	Payment gateway	Consuming third-party APIs within SAP S/4HANA to extend its capabilities,
4	Service Oriented	S4H	Tax calculation Service	Consuming third-party APIs within SAP S/4HANA to extend its capabilities,
5	Hub & Spoke	CRM	S4H	SAP BTP Integration Pod as the central hub for data exchange and process orchestration.
6	Hub & Spoke	S4H	eCommerce	SAP BTP Integration Pod as the central hub for data exchange and process orchestration.
7	Hub & Spoke	S4H	Logistics Company	SAP BTP Integration Pod as the central hub for data exchange and process orchestration.
8	Hybrid	SAP ECC	Cloud App	On-premises SAP ECC system with a cloud-based SAP SuccessFactors instance
9	B2B Management	S4H	EDI to partners	Build and Consume EDI interfaces like EDIFACT, ENCOM etc
10	API Management	S4H	3 rd Party Application	Build Rest API to connect to any 3rd party application using industry standards like Yaml

FROM DATA TO INSIGHTS

2023/ © Nihilent Confidential





- 1. Directly using SAC Live and Import connections, taking advantage of available SAP developed business content
- 2. Complex data modelling and historical analysis on SAP ECC / S4H leveraging BW/4HANA
- 3. Unified structured data from multiple data sources via SAP datasphere
- 4. Semi and Unstructured data is replicated to an Object store (e.g. SAP HANA cloud Data lake)
- 5. Combining multiple data stores together and exploring Data science activities via SAP Data intelligence

Finalize Data Sources

Existing Semi / Unstructured

Structured

Туре	Source	Target	Details of Integration
Fuiatio	SAP BW/4HANA	SAC	Directly using SAC Live and Import connections, taking advantage of available SAP developed business content
Existing	ECC / S4H	SAP BW/4HANA	Complex data modelling and historical analysis on SAP ECC / S4H leveraging BW/4HANA
	Non-SAP	Datasphere	
Structured	Cloud Apps	Datasphere	Unified structured data from multiple data sources via SAP datasphere
	SAP ECC / S4H	Datasphere	
	IOT	SAP HANA Cloud Data Lake	Semi and Unstructured data is replicated to an Object store
Unstructured	Events Logs Documents	SAP Data Intelligence	Combining multiple data stores together and exploring Data science activities via SAP Data intelligence

Finalize Data Science Use Cases

Dashboards

Predictive Analytics

Prescriptive Analytics

Category	Use Case	Details of the Use Case
	Dashboard	Sales Analysis, Sales Trend Analysis, Top 10 Brand-wise sales, Sales Plan vs Actual, Open Orders/Backlog, Delivery performance, Customer Fulfilment – Service Levels
Sales & Marketing	Predictive Analytics	XXX
	Prescriptive Analytics	XXX
	Dashboard	Actual Production by month, Target vs Actual Production, Rejection ratio, Rework, Plant Stock, Production Cost
Production & Planning	Predictive Analytics	xxx
	Prescriptive Analytics	xxx
	Dashboard	No. of active suppliers, Procurement Cycle Time, On Time Delivery, Open PO & PR Ageing, Price Trend of raw Materials, Procurement Analysis by Material Group / Material / Vendor
Suppliers	Predictive Analytics	xxx
	Prescriptive Analytics	xxx

Finalize Automations

Attended Bots

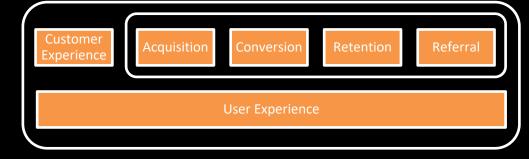
Unattended
Bots

iRPA Bots

3rd Party Bots

Process	Bots	Details of the Automation
Order to Cash	Attended	
Order to Casii	Unattended	
Drocuro to Day	Attended	
Procure to Pay	Unattended	
Hire to Retire	Attended	
niie to ketiie	Unattended	

Finalize Experience



Finalize Collaborations



Platformization of the Old Core



ECC Universe

CO - Controlling Cost Center Accounting Internal Order Accounting Product Cost Accounting Profit Center Accounting Proiect Accounting FI - Financial Accounting

Accounts Payable Accounts Receivable Balance Sheet Bank Accounting Cash Flow Statement Credit Management Fixed Assets Accounting

IAS. US GAAP. Local GAAPs Profit & Loss Statement Segment Reporting & Notes

Tax Accounting LE - Logistics Execution

General Ledger

Delivery Processing Transportation Execution

MM - Materials Management Contract Management Demand Determination Direct Material Procurement

External Service Procurement Goods issue Goods Receipt

Inventory Controlling nvoice Verification

Material Valuation Physical Inventory Management

Purchasing Statistics

Reservations Source Determination

Source Selection

Stock Transfer

Vendor Evaluation PP Production Planning

Batch Management Materials Requirements Planning

Production

Production Statistics

Sales and Operations Planning QM - Quality Management

Quality Control

Quality Engineering SD - Sales and Distribution

Automatic Partner Determination Automatic Text Handling

Availability Check

Credit Management and Credit Check Inquiries

Pricing

Product Listing & Exclusion Product Substitution

Quotations Sales Activities

Sales Analytics

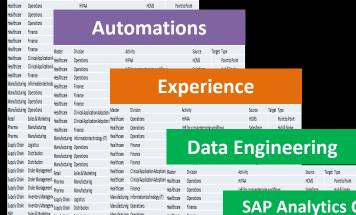
REMOVE

HCMS Point to Point Healthcare Finance Point to Point Point to Point Manufacturing Information technology [17] Connection Security In Eactories - Orbersecurity Manufacturing Operations anufacturing Operations Field Service & Support Sales & Marketing Proprietary Products Establishing gumlierhase narma Manufacturine Usage Based Information Management Solution SAP narma Manufacturing poly Chain Logistics upply Chain Distribution nolyChain Distribution pply Chain Order Management Percentage of late shipments poly Chain Inventory Managemen

MIGRATE

				_	
Master	Division	ktivity	Source	Target	Type
Healthcare	Operations	HPAA	HOVS		Point to Point
Healthcare	Operations	UHE for crossenterprise worlflows	Salesforce		Hub & Spoke
Healthcare	Operations	Integration engineer	HOVS		Event driven
Healthcare	Firence	Payer-provider integration	HMS		Service oriented
Healthcare	Finance	Payfor performance	Payrol		Point to Point
Healthcare	Frence	Bundled payments	Pricing		Point to Point
Healthcare	Clinical Application Adoption (MU 2/3)	EHR, CPOE	SuccessFactor		Hybrid
Heilfrare	Clinical Application Adoption (MU2/3)	Departmental systems (eg. Med management)	Successador		Hybrid
Healthcare	Finance	Disease management	PharmaOne		AM Waragement.
Manufacturing	Information technology T	Correction Security In Factories Cybersecurity	OyberOne		828 Wanagement
Manufacturing	Operations	Web integrated RPA	SIP		828 Wanagement
Manufacturing	Operations	Warrarty	Concor		828 Wanagement
Manufacturing	Operations	Field Service & Support	Concor		828 Wanagement
Retail	Sales & Marketing	Proprietary Products-Establishing supplier base	SIP		828 Wanagement
Pharma	Narufacturing	Usage Based Information Management Solution	SAP		828 Wanagement
Pharma	Narufaduring	Centralised Batch Monitoring	SIP		828 Wanagement
SupplyChain	Lojsiūs	Contract & Expand logistics network	SIP		828 Wanagement
SupplyChain	Distribution	Order Fulfilmert Rate	Concor		828 Wanagement
SupplyChain	Distribution	Transportation Costs	N		828 Wanagement
SupplyChain	Order Management	Overallorderfillrate	SAP		828 Wanagement
Supply Chain	Order Management	Fillrate for each product	Ariba		828 Wanagement
Supply Chain	Order Management	Percentage of late shipments	W.		828 Wanagement
Supply Chain	Invertory Management	On hand stock	W		828 Wanagement
Supply Chain	Invertory Management	tensorhold	W		828 Wanagement
FBB	Sales & Marketing	Sales d'infuersandstraines are projected to rice	W		828 Wanagement
F83	Operations	Reduce Carbon Footprints	W		828 Wanagement
F83	Overations	Biomass Boiler To Heat Distillers Year Around	SIP		828 Wanazement

Integrations



Healthcare Clinical Application Adoption

Sales & Marketing

Supply Chain Logistics

Source Target Type

SAP Analytics Cloud

y(IT)	Healthcare	Operations		Pucin/	ess Netv	10	4	
(FU1)	Healthcare	Finance		Dusille	SOO INCLY	VU	1/	
	Healthcare	Finance						
	Healthcare	Finance	Master	Division	Activity	Source Ta	arget Type	
	Healthcare	Clinical Application Adoption (MJJ 2/3	Healthcare	Operations	HIPAA	HCMS	Point	to Pair
	Healthcare	Clinical Application Adoption (MJJ 2/3	Healthcare	Operations	LHE for crossenterprise workflows	Salesforce	Hub8	Spoke
	Healthcare	Finance	Healthcare	Operations	Integration engineer	HCMS	Event	driver
	Manufacturing	Information technology (IT)	Healthcare	Finance	Payer-provider integration	HIMS	Servic	eorier
	Manufacturing	Operations	Healthcare	Finance	Pay for performance	Payroll	Point	to Pair
	Manufacturing	Operations	Healthcare	Finance	Bundled payments	Pricing	Point	to Pair
	Manufacturing	Operations	Healthcare	Clinical Application Adoption (MU 2/3)	EHR, CPOE	SuccessFactor	Hybri	d
	Retail	Sales & Marketing	Healthcare	Clinical Application Adoption (MU 2/3)	Departmental systems (eg. Med management)	SuccessFactor	Hybri	d
	Pharma	Manufacturing	Healthcare	Finance	Disease management	PharmaOne	APIM	lanage
ŕ	Pharma	Manufacturing	Manufacturing	Information technology (IT)	Connection Security In Factories- Cybersecurity	CyberOne	828 N	(anage
t	Supply Chain	Logistics	Manufacturing	Operations	Web integrated RPA	SAP	828 N	lanage
6	Supply Chain	Distribution	Manufacturing	Operations	Warranty	Concor	828 N	(anage
	Sunnly Chain	Distribution	Manufacturina	Constinue	Sield Conies & Connet	Conces	910 1	Inena

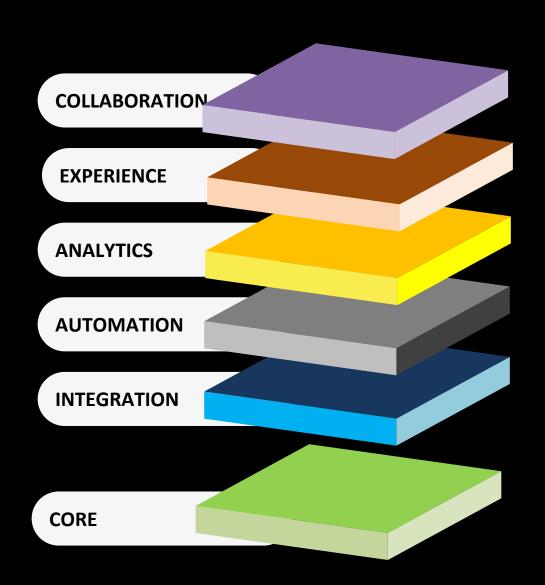
Sales & Marketing

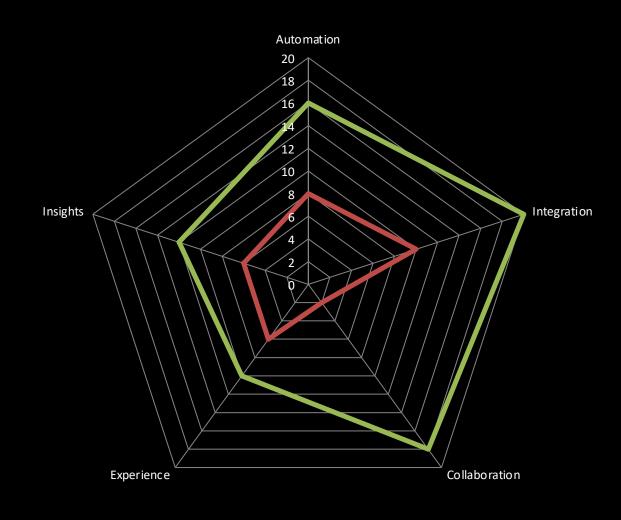
Clean Core

Beyond the Core

YOU ARE AS GOOD AS YOUR WEAKEST LINK







NEW SAP NEW METHODOLOGY



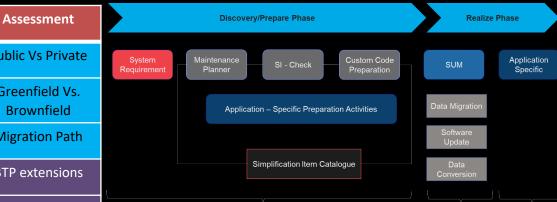
Discovery

Migration to S4

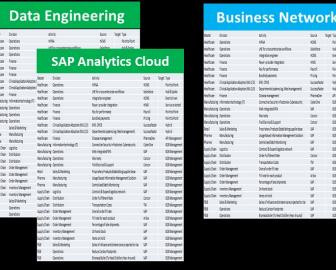
Extensions with BTP Enablement

Datasphere with SAC **Enablement**

Business Network Starter Pack







Waster	Division	Activity	Source	Target Type
Healthcare	Operations	HPAA	HOVS	RintsRint
Healthcare	Operations	LHE for crossenterprise worldlows	Salesforce	Hub & Spoke
Healthcare	Operations	Integration engineer	HOVS	Betälen
Healthcare	Franz	Payer-provide integration	HMS	Service oriented
Healthcare	Franz	Pay for performance	Payrol	PointsPoint
Healthcare	Firenz	Bundled payments	Pricing	Points Point
Healthcare	Clinical Application Adoption (MU 2/5)	BIR, CPOE	SuccessFador	Ribrid
Healthcare	Clinical Application Adoption (MU 2/5)	Departmental systems (eg. Med management)	Successfador	Horid
Healthcare	Franz	Disease management	PharmaOre	A Managemen
Manufacturing	Information technology (T)	Connection Security in Factories-Cybersecurity	OjberOne	\$35 Vanagener
Manufacturing	Operations	Web integrated RFA	SIP	E35 Varagemen
Manufacturing	Operations	Warrarty	Concor	£3Varagener
Manufacturing	Operations	FieldService&Support	Concor	535 Varagemen
Retail	Sales & Marketing	Proprietary Products-Establishing supplier bear	SIP	E3Varagener
Pharma	Wanufacturing	Usage Based Information Management Solution	SIP	53Varagener
Pharma	Manufacturing	Centralised Batch Monitoring	SIP	525 Varagener
Supply Chain	logistics	Contract & Signed ligital snetwork	SIP	E35 Varagemen
Supply Chain	Distribution	Order Fulfilment Rate	Concor	525 Varagemen
Supply Chain	Distribution	Transportation Costs	M	53 Varagener
Supply Chain	Order Management	Overall order fill rate	SIP	535 Varagemen
Supply Chain	Order Management	Fill rate for each poduct	Arba	525 Varagener
Supply Chain	Order Management	Percentage of late shipments	SIP	\$39 Varagener
Supply Chain	Inertory Management	On hand stock	SIP	53 Varagener
Supply Chain	Inerton Management	tensonhold	SIP	525 Varagemen
F&8	Sales & Warketing	Sales of infuses and strainers are projected to rise	SUP	525 Varagener
F&8	Operations	Reduce Carbon Footprints	SIP	\$25 Varagemen
F&8	Operations	BonassBoler(ToHeartOstleryYear Around)	SIP	525 Varagemen

- **Readiness Check**
- Maintenance Planner

Conversion

Post - Conversion

- **BSR**
- SAP Signavio
- Archiving tools

- SAP Integration Suite
- **API Management**
- Build Apps
- **BTP** Document services
- SAP Extension Suite
- Visual LCNC
- Digital experience

- DW cloud
- HANA cloud
- Non-SAP data sources
- Datasphere
- AI / ML models

- Assessment
- Enablement
- Implementation
- Adoption
- Productization
 - Analytics

Public Vs Private
Greenfield Vs.
Brownfield
Migration Path
BTP extensions
BTP Integrations
BTP Automations
BTP Experience
Data Engineering
Data
Visualizations
Business
Network LBN
Business
Network AIN
Business
Network Ariba

