ASUG
Best Practices
SAP S/4HANA® and
SAP Business Technology Platform (BTP)

WELCOME

NPPD - SAP BTP & The Future-Ready Enterprise

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Background

- Formed on January 1, 1970

- Help serve more than an estimated 530,000 Nebraskans
  with electric power and energy-related services.

- Safely generate and deliver reliable, low cost,
  sustainable energy and related services, while providing
  outstanding customer service.

- We are a premier energy provider bringing the best of
  public power to Nebraskans, powering everyday life and
  a brighter future.

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Problem Statement

- Upgrade to S4 in process, need to clean up our Launchpad in order to start using all the Fiori features in S4.

- Neo sunset in 2028. Need to migrate our CPI content to Cloud Foundry

- There is no much internal knowledge about BTP governance and Cloud Foundry

- Many internal processes use InfoPath forms. Need to replace them with a modernized approach.

- Take full advantage of S4 and BTP offerings

Strategy – Why BTP?

Working with **BlueBoot Business Software**, SAP BTP-specialized partner:

- App development in BTP avoids extensive ABAP and config in ECC

- BTP has built-in workflow functionality to accommodate approvals

- BTP offers many services that could upgrade our current process in many ways

- S/4 HANA and BTP provides pre-built content that can be re-used to achieve quick-

  wins

What is a **Future Ready Enterprise**?

A **resilient business** needs a technology foundation that enables them to

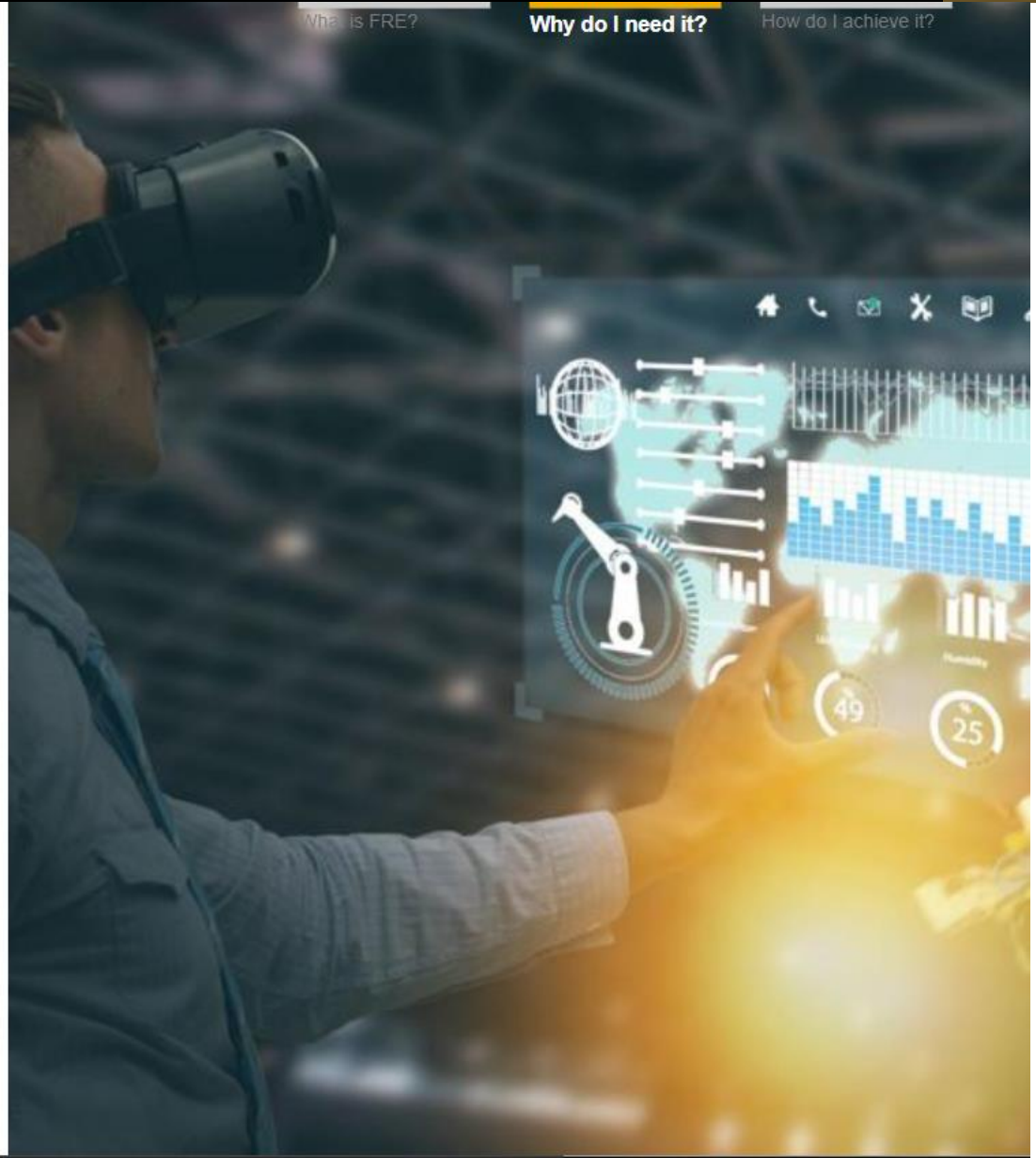**Change and Adapt**   ·········   **Delivery at Pace**   ·········   **Ensure Stability**

Why do I need to be **Future Ready**?

- Rapid Disruption
- Technology
- Economy
- Environment
- Pandemic
- Consumer Expectations

"SAP BTP Is the Choice" – Jürgen Müller, SAP TechEd November 2022

SAP BTP – The Natural Extension & Integration Platform for S/4HANA

SAP BTP is the foundation of the intelligent, sustainable enterprise

Intelligent, sustainable enterprise

Industry-specific end-to-end processes

Enterprise resource management
Spend management
Human capital management
Customer relationship management

Business technology platform

Create personalized experiences that instantly work with SAP applications

Build faster with business context to meet change with agility

Run with confidence on a trusted, enterprise-grade platform

App dev	Automation	Integration	Data and analytics	AI
Build and innovate	Optimize and automate	Connect and simplify	Give data purpose	Infuse intelligence

SAP Silver Partner

BlueBoot © BUSINESS SOFTWARE

How can I become a Future Ready Enterprise

1

Business Foundation

Essential phase to perform right planning with **"Mission and Vision"** and organization goals.

Foundation phase is focused to ensure business process are defined well and optimized

2

Future Aware

Construct Right Design and architect with **future state in mind.**

Future Aware is to ensure the busines process defined are rightly architected,

3

Future Focused

Enabling Enterprise on future needs for **transformation journey.**

Future creation is to ensure all considerations customer has accounted for application scalability for future readiness

4

Trailblazers

Outcome translates building **powerful digital enterprise** systems connect with eco-systems.

Trailblazer is continuous innovations mindset and outcome supported by SAP BTP innovation services

Next Gen Bus. Architecture → **Tech Arch** Define, Design and Architect → **Deliver** → **Innovate**

Continuous improvement cycle
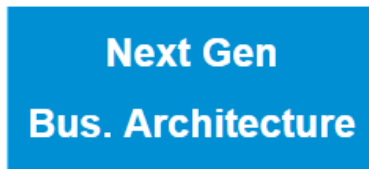
SAP S/4HANA + SAP Business Technology platform

SAP Silver Partner

BlueBoot © BUSINESS SOFTWARE
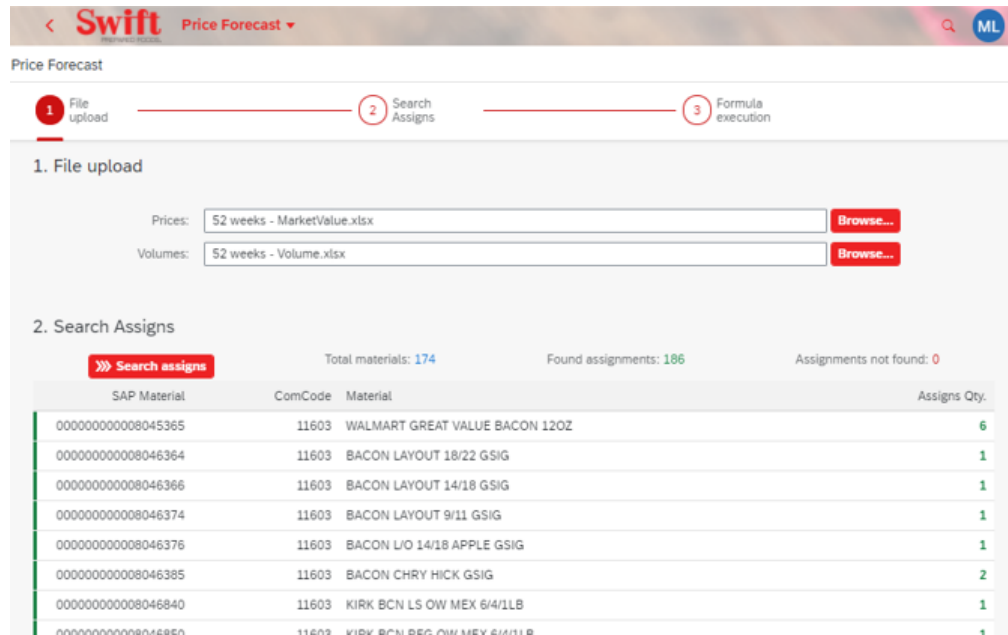
SAP BTP – The Natural Extension & Integration Platform for S/4HANA
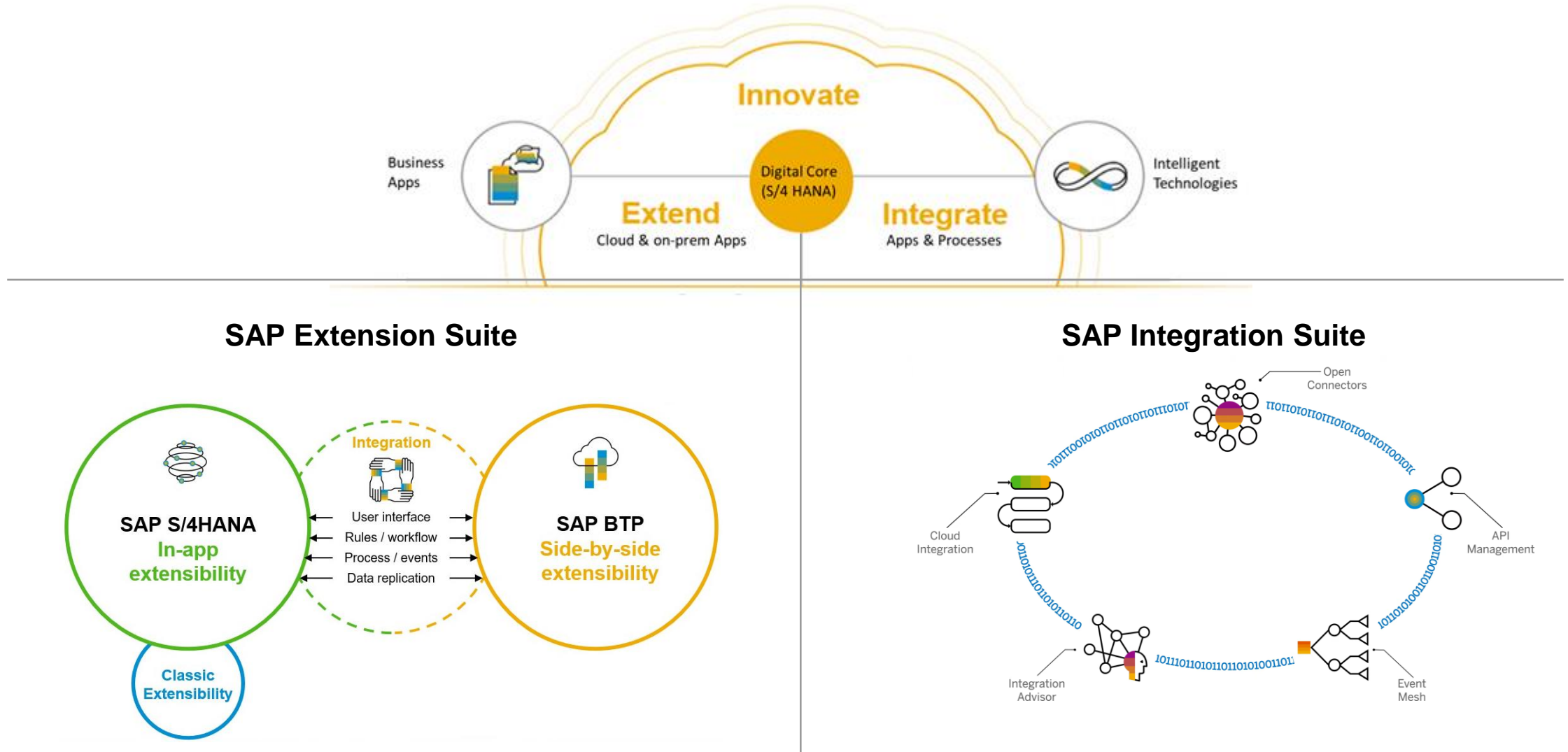
SAP BTP Sample Architecture
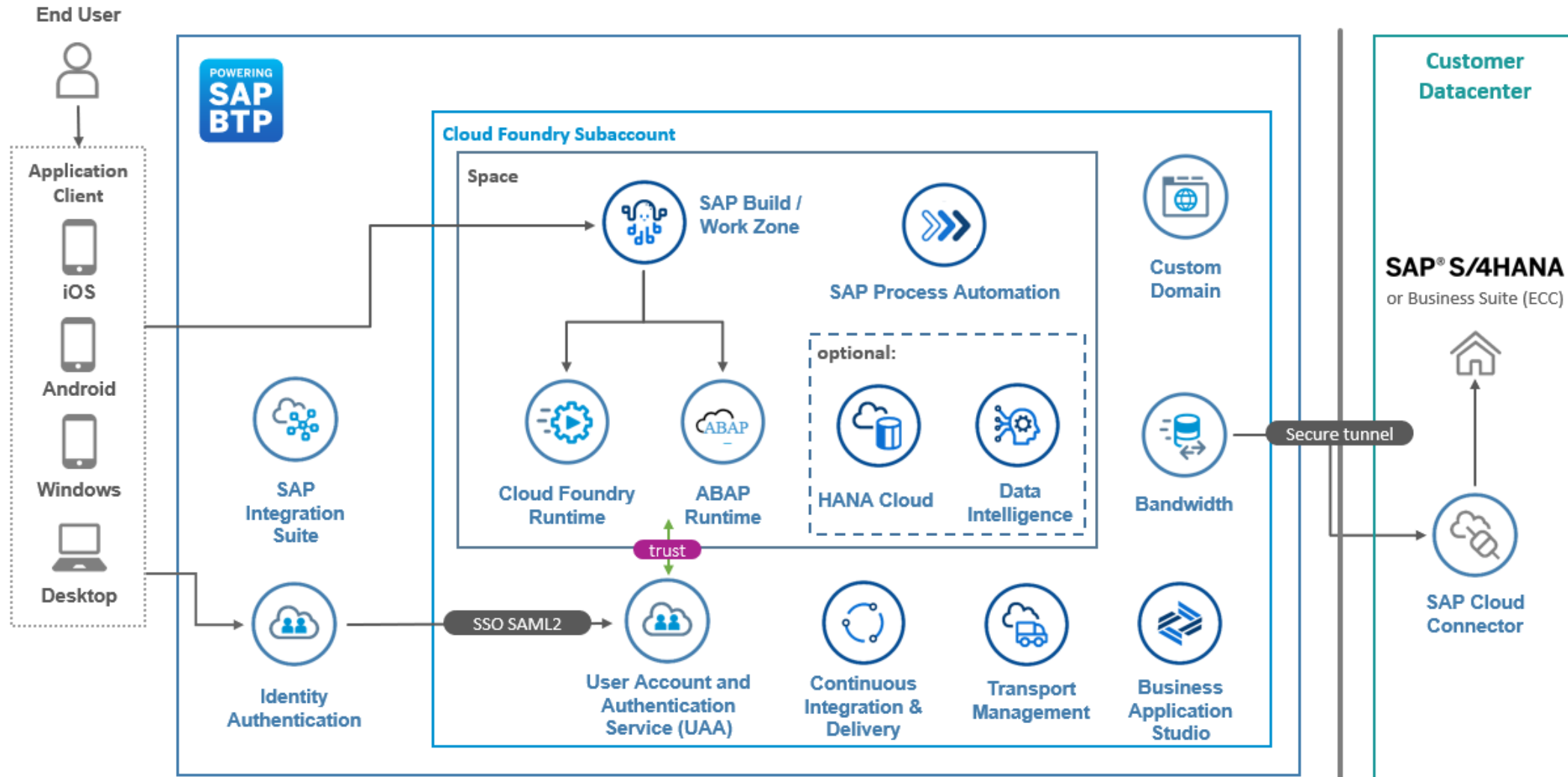
Sales Pricing Automation and SOX Compliance

Quick Facts

Customer:
JBS USA.

Business Outcome:
Automated Pricing Calculations & Projections

License Agreement:
Pay-as-you-go

Main Features & Challenges

- ✓ Dynamic formulas administered in HANA Cloud for Pricing
- ✓ Fiori applications for formula management and price updates
- ✓ Integration with public data sources for commodity prices
- ✓ SOX Compliance workflows with approvals & audit process
- ✓ Pricing Projections based on forecast and formulas

BTP Services

- ✓ SAP Work Zone
- ✓ HANA Cloud
- ✓ SAP Build Process Automation
- ✓ Identity Authentication

Reasons for Success

Understanding BTP in Depth

Work Zone | Cloud Foundry Runtime | Mobile Services | SAP Build

Integration Suite | Process Automation | Workflow | HANA Cloud

Conversational AI | Machine Learning | Intelligent RPA | SAP Analytics Cloud
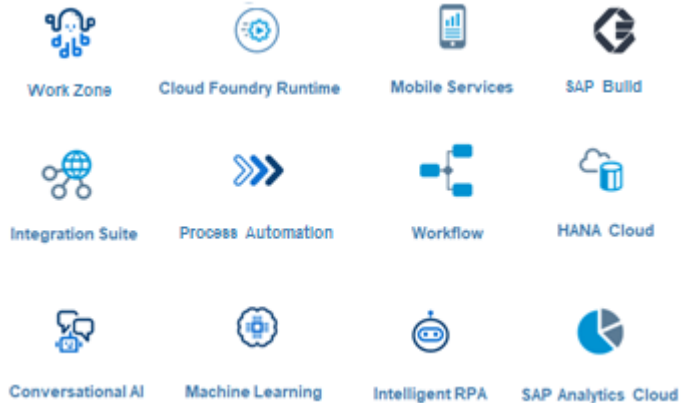
Agility & Accelerators
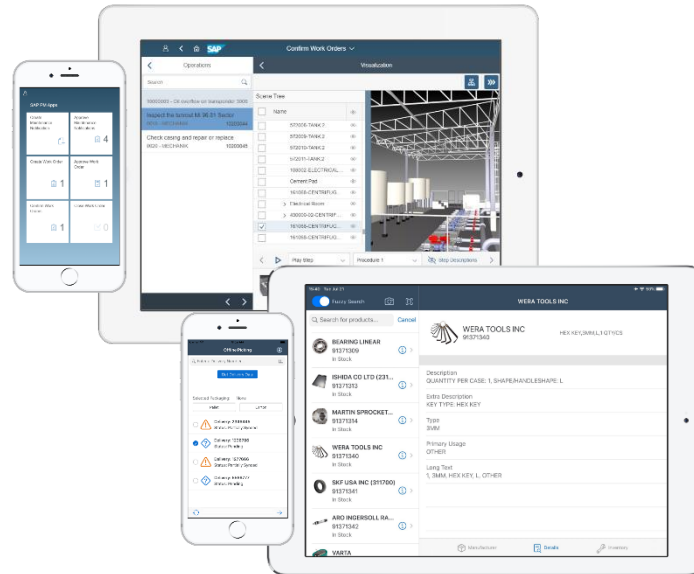
SAP Roadmap & Customer First

- ✓ Interpretation of the SAP Roadmap
- ✓ Prioritize project success
- ✓ Defining the best architectures that adapt to each customer
- ✓ Joint work with SAP Labs Team
- ✓ Architecture Recommendations and best practices
- ✓ Advanced BTP support model

Main Goals - Roadmap

Platform Foundation

Governance Completion, Transports & DevOps → SAP Cloud ALM → Full Single-Sign-On → Fiori Environment Clean-up and Personas → SAP Fiori Landscape & Content Federation → Clean Core Implementation → App Development Templates (Full-Stack) → End-to-End Support & Governance

Business Scenarios

Master Data Workflows (F-Forms) → Wholesale Partners Portal → Integration Suite Migration & EDI → Inventory Apps Pilot → PM Apps Pilot → OSI PI Work Order Triggering → OCR Invoice Recognition → Energy Efficiency Forms

- Build Cloud Foundry Environment
- Clean S4 – define roadmap for Central Entry Point
- Integration Suite and API Management cases
- Digitalize Forms

Process Overview
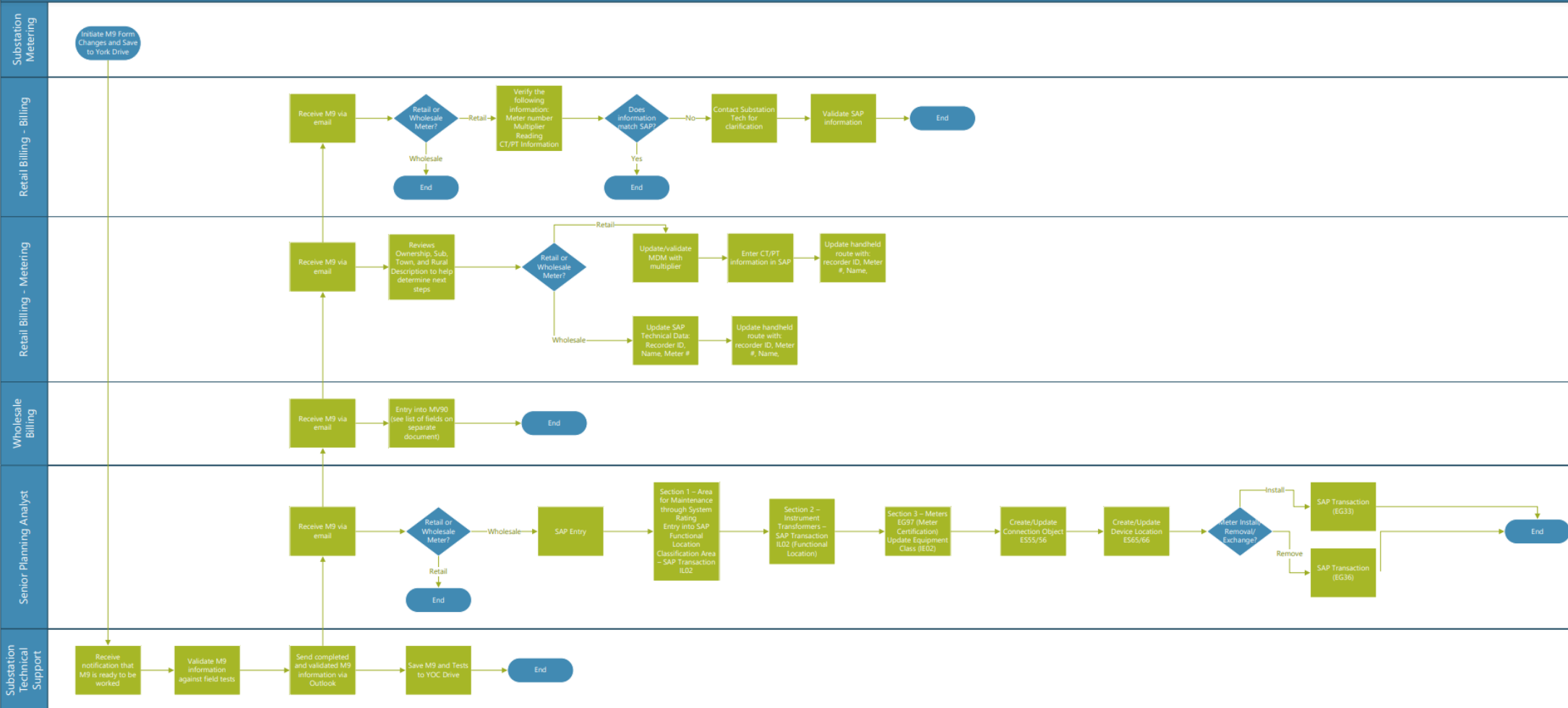
M9-0317EF

METER INSTALLATION REPORT

Retention Code G20

NEBRASKA PUBLIC POWER DISTRICT
NOTICE: This Form Contains Important Billing Information. Do Not Delay Processing

Recorder Location ID Number: 1734   SPP ☐
Device Location: 6101094547
Revision Number: 6

Installation Status: ☐ New   ⦿ Update   ☐ Removal   NOTE: USE ALL CAPS TO FILL OUT THIS FORM.
Functional Location: TS-S-E-910233-302-METERS

Responsibility	Organization	Mailing Address	Phone
Ownership of Meter	NPPD	CS&D METER SHOP YOC	402-362-7362
Reading	NPPD	COLUMBUS G.O.	402-563-5324
Billing Office	NPPD	COLUMBUS G.O.	402-563-5324

Area Responsible for Maintenance: ☐ Central Area ⦿ Eastern Area ☐ Northern Area ☐ Western Area   Cell Phone: MDN _____ ESN _____ PNL 2
Read Type: **TCPIP**   IP 192.168.214.198/502   Phone # _____ Port: _____ Meter Address: 001

Location:
☑ Substation Name/Ownership: YORK SOUTHWEST 115 / NPPD   Sub Number 910233   BKR: 302   Line or Bus #: LN 60410
☐ Power Plant Name/Ownership: _____ / _____   Town: _____
☐ Rural Description: _____   ☐ In GPS File

Site Application: ☐ Power Plant ☑ Wholesale Billing ☐ Intertie ☐ Retail ☐ Real Time ☐ SCADA ☐ Primary ☐ Alternate   Switch Map Page: B-3-A
Meter Application: ☐ Generator # _____ ☐ Station Service ☐ Transformer #: _____ ☑ Line ☐ Bus ☐ Other LN 60410   Program ID #: 62D4
System Rating: 34500 Volts (Line - Line)   3 ∅ 3 Wire   ⦿ Delta ☐ Wye   DST ☐ ON ⦿ OFF

Instrument Transformers	Installed and/or Existing				Removed			
	Current		Potential		Current		Potential	
Mfgr. & Type	GE JKW-200	GE JKW-200	GE JVT-200	GE JVT-200				
Serial Number	1018481	1030757	1046673	1032209				
Ratios (star one)	300* / 600 :5	/ :5	300* / 600 :5	/ 300 :1	/ 300 :1	:5	:5	:5	/ :1	/ :1	/ :1
RF.Burden Class	2.0/1.5 / 0.3B2.0	/	2.0/1.5 / 0.3B2.0	0.3@W-ZZ	0.3@W-ZZ	/	/	/
Inst. Trans. Owner	NPPD	NPPD	NPPD	NPPD				

Meters	Installed and/or Existing					Removed				
	Channel 1 or A	Channel 2 or B	Channel 3 or C	Channel 4	Recorder	Channel 1 or A	Channel 2 or B	Channel 3 or C	Channel 4	Recorder
Serial Number	159-0174405526	159-0174405526	159-0174405526	159-0174405526	159-0174405526					
Mfgr. & Type	EIG-NEXUS	EIG-NEXUS	EIG-NEXUS	EIG-NEXUS	NEXUS 1262					
Stock Code	74962	74962	74962	74962	74962					
Class	20	20	20	20						
Form	9Z AS 2ELE	9Z AS 2ELE	9Z AS 2ELE	9Z AS 2ELE		9Z	9Z	9Z	9Z	
WattHour Constant	NA	NA	NA	NA						
MV-90 Pulse Multiplier LP (KWHC)	18	18	18	18						
MV-90 Meter Multiplier	18	18	18	18						
Dial Multiplier (Kr) (Visual Read Only)	18000	18000	18000	18000						
Number of Dials/Integers	8	8	8	8						
Reading/Demand	0 / 0	0 / 0	0 / 0	0 / 0		/	/	/	/	
Units Measured	KVAR	KW	KVAR	KW		KW KQ KVAR KVA	KW KQ KVAR KVA	KW KQ KVAR KVA	KW KQ KVAR KVA	
Demand Reg. Mfg & Type	NEXUS 1262	NEXUS 1262	NEXUS 1262	NEXUS 1262						
Deliver (+) / Receive (-)	DELIVERED	DELIVERED	RECEIVED	RECEIVED						
Demand Interval	60	60	60	60	15					
Customer Name	NPPD RETAIL	NPPD RETAIL	NPPD	NPPD						
Delivery From	34.5 KV BUS	34.5 KV BUS	LN 060410	LN 060410						
Delivery To	LN 060410	LN 060410	34.5 KV BUS	34.5 KV BUS						
Output Contact Ratio	0.3	0.3	0.3	0.3						
Output Pulse Multiplier (KWHC)	5.4 (+ KQH)	5.4 (+KWH)	5.4 (-KWH)	5.4 (-KQH)						
Output Pulses Received By	---	---	---	---						

Remarks:
11-30-15 REPLACED METER FOR FIRMWARE UPGRADE. ADDED FOURTH CHANNEL TO METER. TRA
12-2-15: CORRECTED CUSTOMER NAME. (AJB)
1-23-18: CIP LOW PROJECT. KH

Device ID: 1734   SO #: _____   WO #: 6040543
Installation/Removed By: K. HALL   Date: 1/23/2018

Current Form

ASUG Best Practices
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- R-S-F-BIG SPRINGS

Header   Site Information   CT/PT   Meter   Firmware/Communication   Remarks   Approval   Change Log

CT/PT

Completed Section

◯ NO   ◯ YES   ⦿ N/A

Instrument Transformers

	Status	Action	Manufacture Type	Serial Number	Nameplate Ratio	Effective Ratio	Winding Group	Rating Factor	Accuracy C
Current 1	REMOVED	↩	ASTRA TCW	2576698	:5	100 :5	20C100	4	.2
Current 1	INSTALLED	🗑	ASTRA TCW	2576710	:5	200 :5	40C200 ⌄	4	.2
Current 2		🗑	ASTRA TCW	2595978	:5	100 :5	20C100 ⌄	4	.2
Current 3		🗑	ASTRA TCW	2595980	:5	100 :5	20C100 ⌄	4	.2
Potential 1		🗑	ITRON T6R	53488060	:1	2.5 :1	⌄		
Potential 2		🗑	ITRON T6R	53488061	:1	2.5 :1	⌄		
Potential 3		🗑	ITRON T6R	53488062	:1	2.5 :1	⌄		

Meter

🗑 Delete   💾 Draft   ✓ Submit   ‹ Close

New Solution

EB

Log

|— Submitted ⟫⟫ Technical Support ⟫⟫ Retail Billing ⟫⟫ End —|

Form Submitted	Approval	Metering	END
✅ OK	✅ OK	❌ NO OK	❌ Pending

Billing
⚠ Warning

🗑 Delete   💾 Draft   ✓ Submit   ‹ Close

New Solution - Architecture

SAP Business Technology Platform

Cloud Foundry Subaccount

BAS

UI Theme Designer

WorkZone Standard edition

Fiori App

Destination Service

User Account and Authentication Service (UAA)

Process Automation WorkFlow

Connectivity Service

SAP Hana Service

Identity Authentication Service

End User

Application Client

iOS

Android

Windows

Desktop

SSO SAML2

okta

Ping iD

Azure Active Directory

Your Datacenter

SAP ERP

Web Dispatcher

Secure Tunnel

Cloud Connector

ces

ology Platform (BTP)

Questions?

For questions after this session, contact Christopher
at:
cjpelch@nppd.com

Or contact BlueBoot at:
Ariel Godoy – agodoy@blueboot.com
Eric Brinckhaus – ebrinckhaus@blueboot.com

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We want to hear from you!

Be sure to complete the session evaluation
to share your thoughts on today's experience.

Thank you.

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