
Wednesday, August 26th, 2025

Webinar – Unlocking AI with the Data you already have

ins3



Bob Clark <bclark@ins3.com>

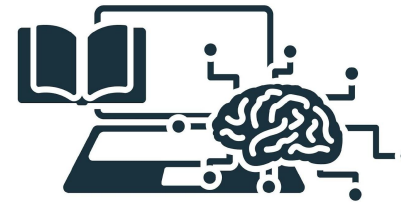
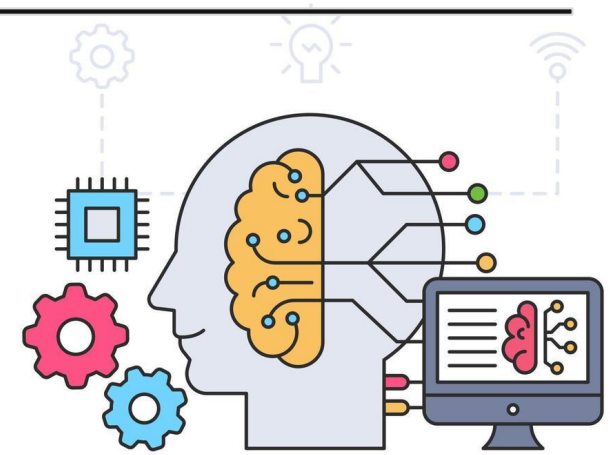
SORBA.ai



Bryan Thyken <bthyken@sorba.ai>

AGENDA

- Logistics of the Webinar
- INS Introduction
- Sorba.AI Introduction
- Sorba.AI Product Demo
 - Pump Anomaly Detection
 - Advanced Process Control
- Questions and Answers
- Next Steps



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SORBA.ai

INDUSTRY & TECHNOLOGY SPECIALISTS

- Experienced in **solving efficiency, quality, and cost control issues with our industrial customers.** We **solve customer problems by leveraging industry-leading technologies** by Microsoft, SAP, GE, Rockwell, Ignition, Tatsoft’s FrameworX & other key industrial software vendors

EXPERTS IN

- Real-Time Data and Infrastructure (SCADA, Data Historians)
- Modernization of Automation Software and Architecture
- MES and Manufacturing Intelligence
- Analytics and Industry 4.0, IIoT

F&B	CPG	REGULATED	MFG	PROCESS
				
				
				
				
				

HELPING MANUFACTURERS THROUGH DIGITAL TRANSFORMATION



DATA INFRASTRUCTURE

- Cybersecurity
 - Audits / Site Surveys
 - IT/OT Devices / Software
- Network Infrastructure
- Servers / Virtualization
- Sensors
- Edge Devices
- Data Readiness Survey



SCADA/HISTORIANS

- Modernize SCADA/Historian
 - Upgrade/Replace
 - Rearchitect (OS/ Virtual)
- Data Collection / Storage
- PLC / Automation
- Alerts
- Reports, Trends
- Mobile
- Get more value from existing



MES/MFG INTELLIGENCE

- KPI – Manufacturing Metrics
- OEE / Downtime
- Quality Management
- Track & Trace / Serialization
- Scoreboards / Dashboards
- Automate Manual Processes
- Costing / Scheduling
- Paperless / Automate Manual
- Interface to ERP, WMS, CMS, LIMS



ANALYTICS

- Data Aggregation in Context
- Data Lakes – Cloud / On Prem
- Predictive Quality
- Predictive Maintenance
- Condition Maintenance
- Digital Twins
- ML – Machine Learning
- AI – Artificial Intelligence
- Manufacturing Integration

UNIFIED NAMESPACE VALUE

- Unify your OT Data
- Could be based on ISA-95
- Structure to get you to Industry 4.0 and ease integration



SOLUTIONS DELIVERED

- Industry 4.0 & IIoT
- Machine Analytics
- Manufacturing Metrics (KPI)
- Scoreboards and Dashboards
- Alarms and Alerts
- OEE , Downtime
- Track & Trace, Serialization
- Quality Management
- Automating Manual Process
- Costing / Scheduling
- Interface to WMS, LIMS and other applications
- Predictive Maintenance and Quality
- ERP Connectivity
- SCADA and Data Automation Upgrades

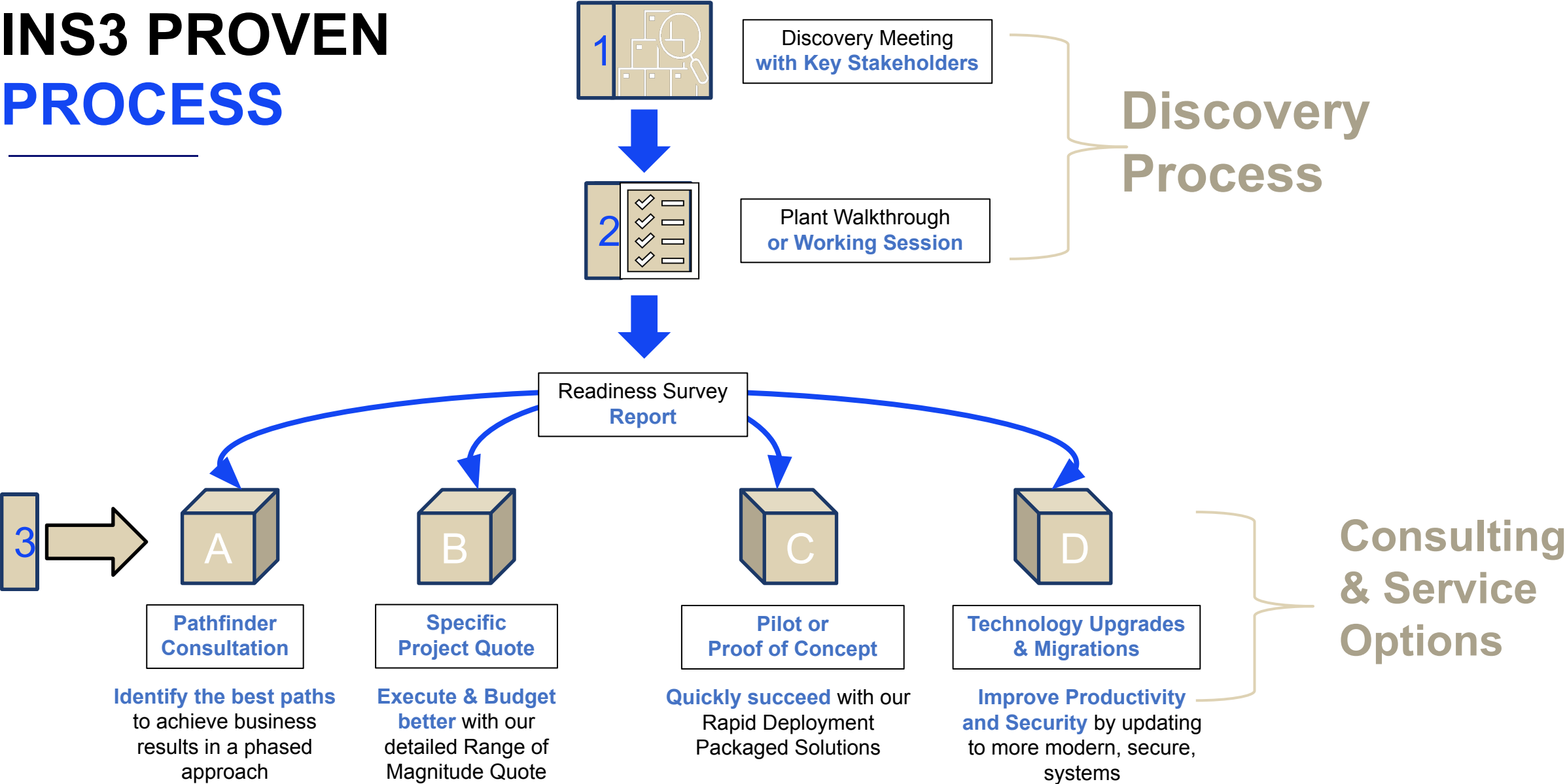


INS3 VALUE DELIVERED

- Pump Maintenance
- Roasting Quality
- Viscosity Prediction
- AGV Path Optimization
- Material Optimization
- Schedule Optimization
- Many More.....



INS3 PROVEN PROCESS



WHO IS SORBA.ai? AND WHO IS USING IT?

OnSyte
PERFORMANCE™


Constellation
Brands


HONDA

[**CSX**][®]

BHP

 **AB InBev**


GERDAU

Firestone

 **KOCH**


TARGET

WHAT IS SORBA.ai?



Edge to Cloud Software **AI Platform** for **Industry Agnostic SMART Asset Health Monitoring & Process Optimization Control Solutions**

End to End AI IIoT Automation Software Platform

Real-Time Equipment/Process Failure Detection

Edge Analytics Platform compute processing

Hybrid Architecture Cloud only, Edge only or Edge to Cloud

No-Code Machine Learning model creation

Low Barrier to Entry Subject Matter Experts Build Solutions

AI OPERATING STACK

Combine the DATAops & MLops World

- **AI/ML Model Edge Processing**

- ✓ Edge Device IIoT Management

- **Dashboard Designer**

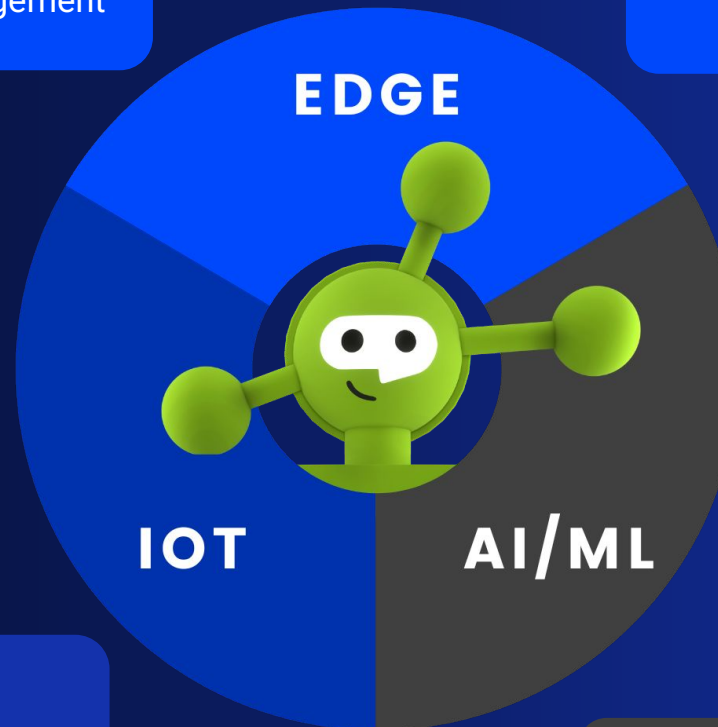
- ✓ Py. Script Engine
- ✓ Workflow Integration

- **Enterprise Production AI App Store**

- ✓ Smart Production Performance Analyzer (OEE)
- ✓ Smart Modulation (MES)
- ✓ Smart Vibration Performance Analyzer
- ✓ Ingest ANY and EVERY 3rd party hardware sensor in the marketplace

- **MQTT & OPC-UA Client/Server**

- SparkplugB Enabled
- Big Data Timeseries Database
- Real-Time Data Dashboard Designer



- **Smart Digital Twin Modeling :**

- ✓ Single Regressions
- ✓ Neuron Regressions
- **Smart Process Optimization/Control Modeling**
- ✓ Timeseries Forecasting

- **Smart Asset Health Modeling :**

- ✓ Anomaly Detectors (unsupervised learning)
- ✓ Classifiers (supervised learning)

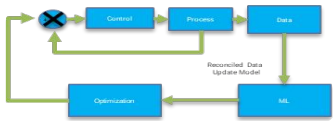
- **Next Gen Modeling :**

- Image/Video Processing
- NLP & Reinforcement Learning

ROI DRIVEN, OPERATIONAL AI APPLICATIONS

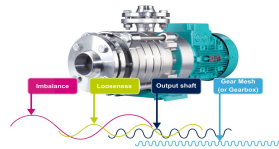
One Platform: **MANY** AI Production Ready AI Solutions

(1) SORBA-SDE (Smart Data Engine Real-Time Edge Platform) Real-Time ML Edge offers multiple applications in one platform. Advanced Optimization & control (Reinforcement Learning), (2) Predictive Maintenance (Anomaly Detection, Classification), (3) Digital Twin (Regression, Multi-Regression, Forecasting), (4) Vibration Analysis & Spectrum Failure detection, (5) OEE (Overall Equipment Effectiveness) and other performance KPIs, MTBF, MTTR, Machine Learning Root Cause Analysis.



SORBA-APC

Advanced Process
Optimization &
Control



SORBA-PdM

Predictive
Maintenance &
Asset Health



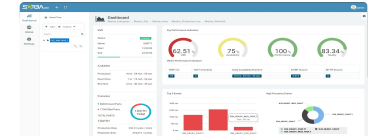
SORBA-DT

Digital Twin
Simulation
Modelling &
Forecasting



SORBA-VVA

Vibration Analysis



SORBA-PPA

Production
Performance
Analysis

SCALING CHALLENGES

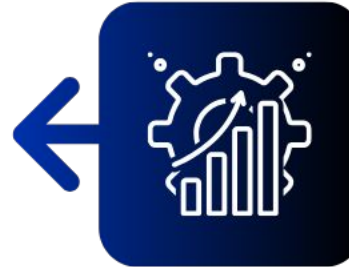
Quality Control



Supply Chain
Management



Regulatory
Compliance

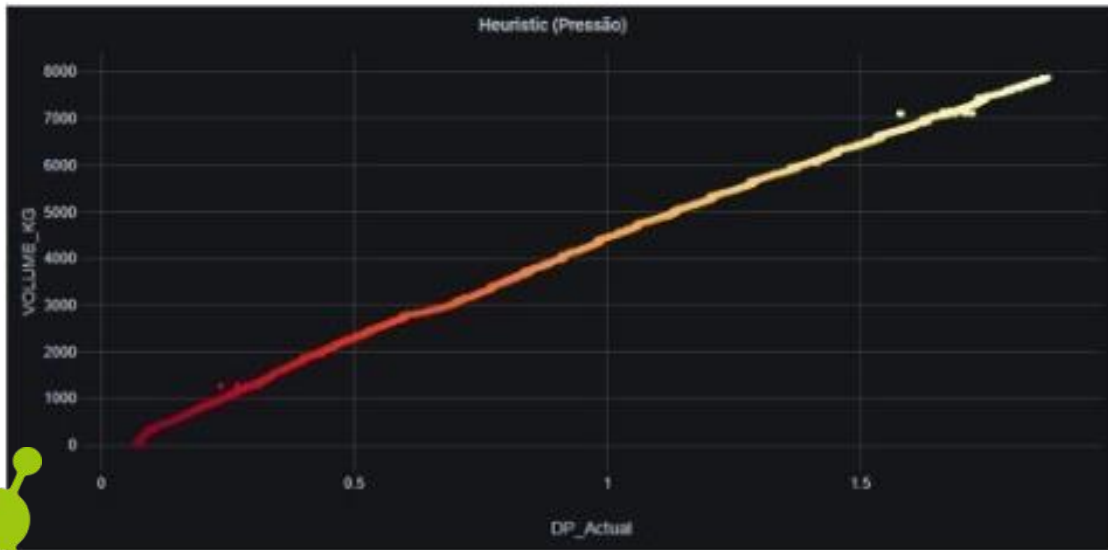


Efficiency



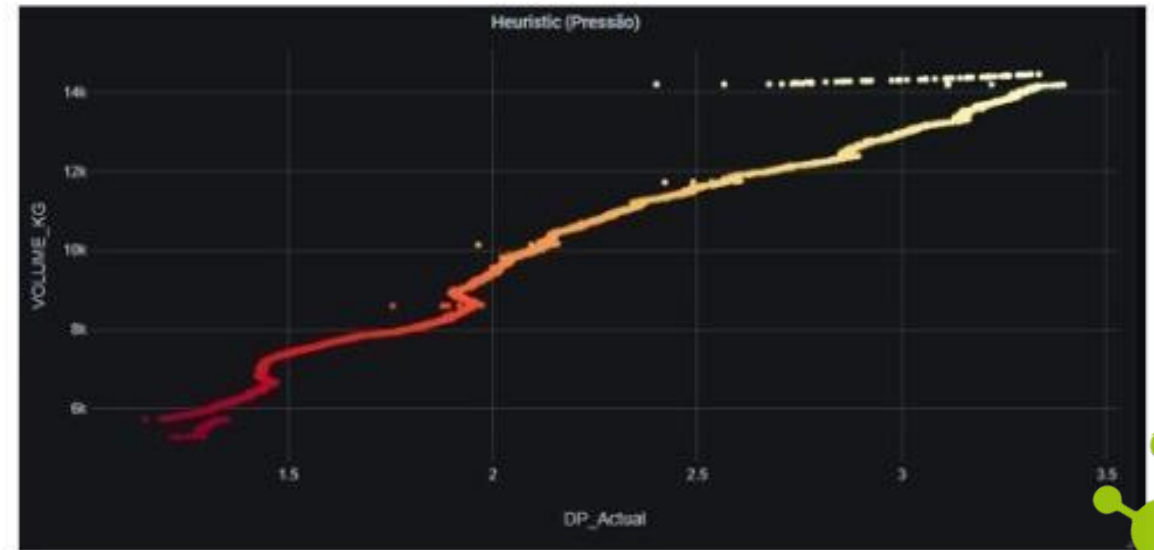
Equipment
Maintenance

RESULTS OF MACHINE LEARNING IN PRODUCTION



With SORBA.ai

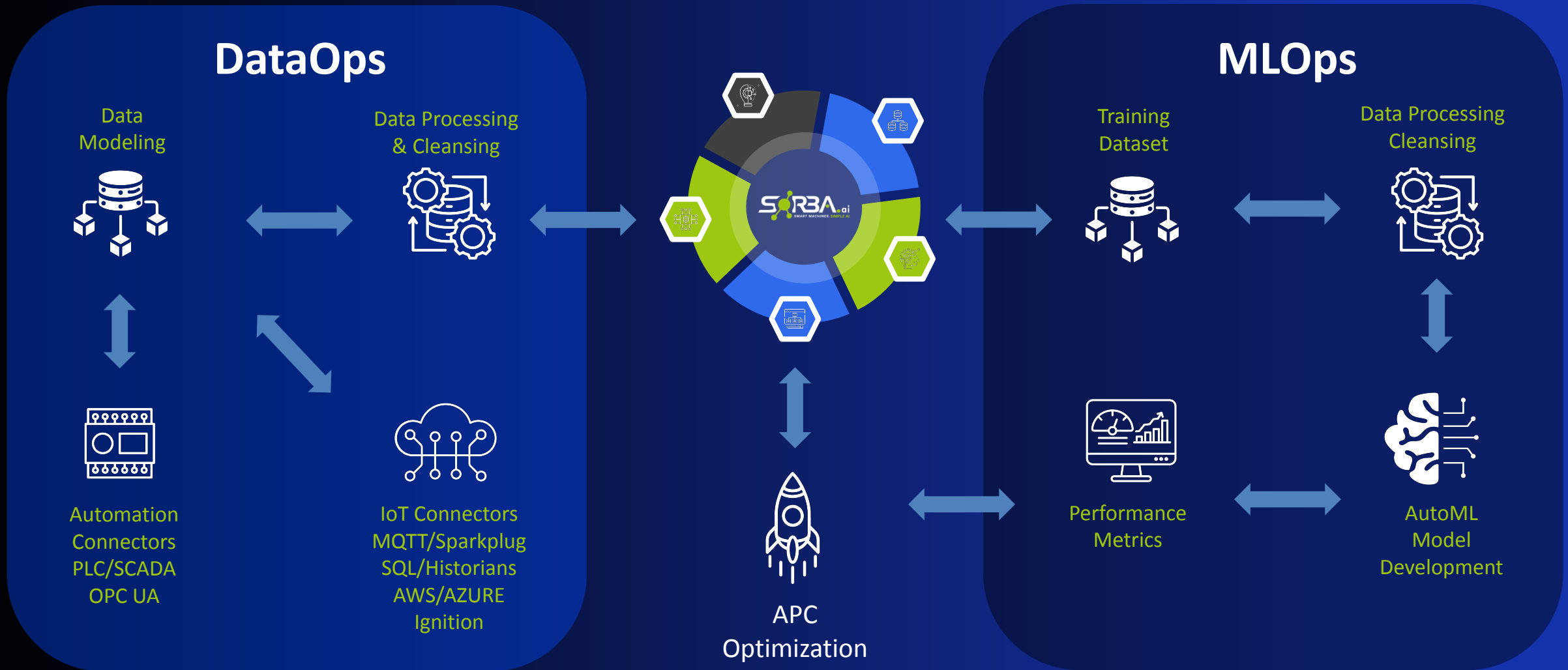
Beer Filtered – 8000 hl
Earth dosage – 1200 liters
Pressure increased - 1.7 bar



Without SORBA

Beer Filtered – 8000 hl
Earth dosage – 1700 liters
Pressure increased - 2.2 bar

ON PREMISE EDGE SOLUTION



Sorba.AI Demo

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SORBA.ai



Bob Clark

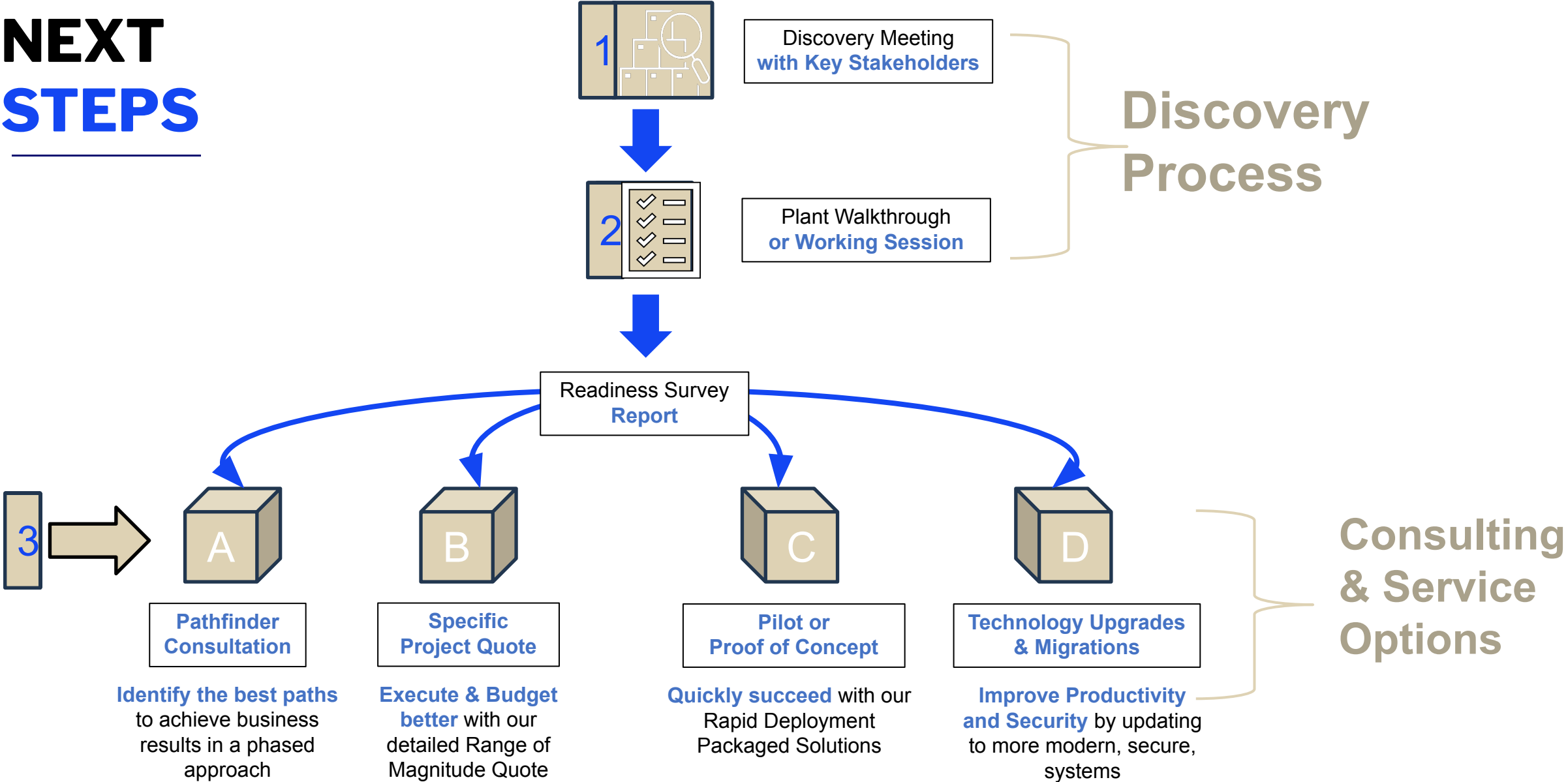


Brian Thyken

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Q & A

NEXT STEPS





Thank you!