



Power your JDE with PowerApps

A presentation for



Agenda

JD Edwards EnterpriseOne Capital Asset Management Module + IIoT

- Fed Coop Introductions
- Fed Coop Business Case
- Syntax Introduction
- Solution Overview
- Q&A



Presenter

Mike Smitten

Director, Innovation – Business Solutions

Federated Co-Operative Ltd.

- Over 20 years of Technology experience overseeing and implementing systems across several domains including, Supply Chain, Finance, HCM & Capital Asset Management
- Currently helping lead several strategic project and operational teams



**Making a difference
in members' lives.**

Who we are



Federated Co-operatives Limited (FCL) is a wholesaling, manufacturing, administrative and marketing co-operative that serves independent local Co-ops across Western Canada.

OUR VISION

Building sustainable communities together.



Co-operative Retailing System (CRS)



CO-OP IN WESTERN CANADA

FCL and local Co-ops help build, feed, fuel and grow Western Canada.



650+
COMMUNITIES

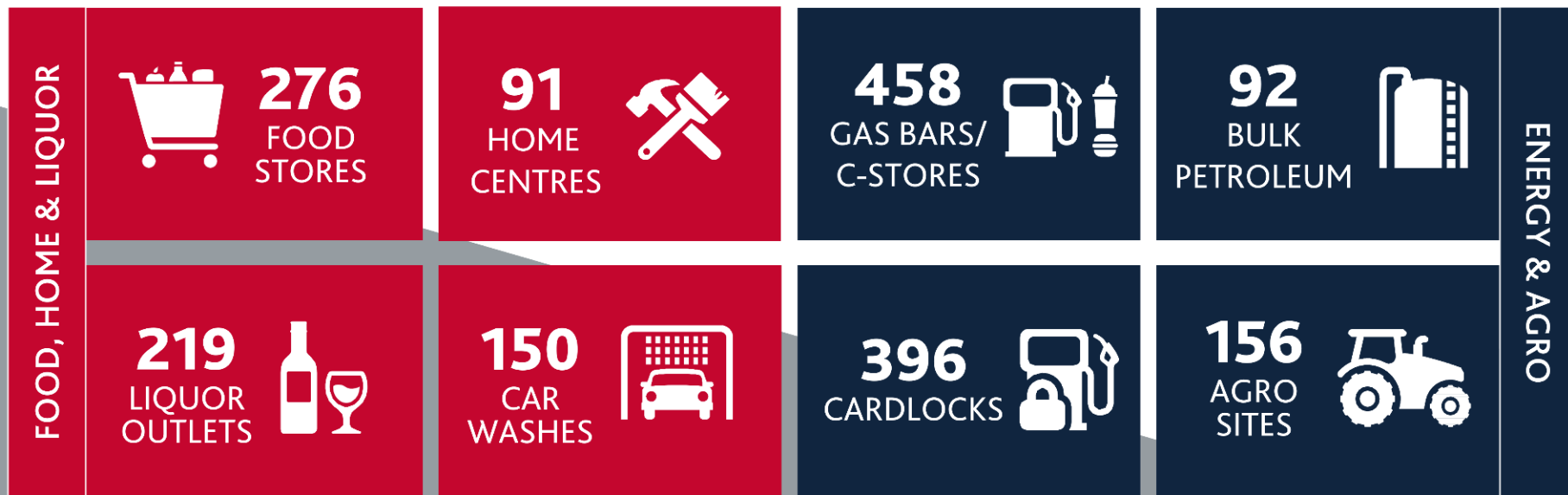
26,400+
EMPLOYEES

2.1 M+
MEMBERS



Co-op Locations

Co-op operates in four primary areas: agriculture, food, home and building solutions, and energy. Local Co-ops may also provide other services.



We Fuel Western Canada

- Distributes **17 million** litres of fuel products, per day
- **5.6 billion** litres of fuel sold, per year
- Fleet of **250 b-train units** travelled **49 million** kilometres



Co-op Ethanol Complex (CEC)



The CEC has been producing and shipping ethanol since 2008. FCL purchased the facility in the Summer of 2019.

- Based near Belle Plaine, Sask.
- Produces up to **150 million litres**, per year
- Generates between **\$100 - \$140 million** in economic impacts every year
- **350,000 tonnes** of grain and other crops purchased annually from ~ **270+** Western Canadian producers

Federated Co-operative Business Case

Capital Asset Management Module + IIoT

Fed Coop Business Case

Problem statement

Our organization currently faces significant challenges in maintenance management across various teams and affiliated companies. The existing processes are decentralized and lack standardization, leading to inefficiencies, increased downtime, and elevated maintenance costs. Additionally, these processes are not integrated with our core Enterprise Resource Planning (ERP) system, JD Edwards (JDE), resulting in data silos, inaccurate maintenance records, and delayed decision-making.

Challenges

Inconsistency in Maintenance Practices: Different teams and companies operate under varied maintenance protocols, which complicates oversight and best practices implementation.

Data Fragmentation: Critical maintenance data is scattered across multiple systems and formats, making it difficult to track, analyze, and act upon efficiently.

Resource Wastage: The lack of a unified system leads to redundant efforts, misuse of resources, and an inability to predict maintenance needs effectively.

Compliance and Risk: Inadequate maintenance tracking and inconsistent standards increase the risk of non-compliance with industry regulations and can lead to safety issues.

Fed Coop Business Case

Benefits

Enhanced Operational Efficiency:

Reduces downtime by enabling proactive maintenance and faster response to equipment issues through real-time monitoring.

Cost Reduction:

Decreases maintenance costs by eliminating redundant processes and improving resource allocation, ensuring maintenance resources are used more efficiently.

Improved Compliance and Safety:

Enhances adherence to safety standards and regulatory requirements through consistent maintenance practices across all equipment and locations.

Data-Driven Decision Making:

Facilitates better strategic decisions by providing comprehensive analytics on maintenance activities, equipment performance, and resource utilization.

Extended Equipment Lifespan:

Increases the longevity of equipment through timely maintenance and updates, significantly reducing the need for premature replacements.

Presenter

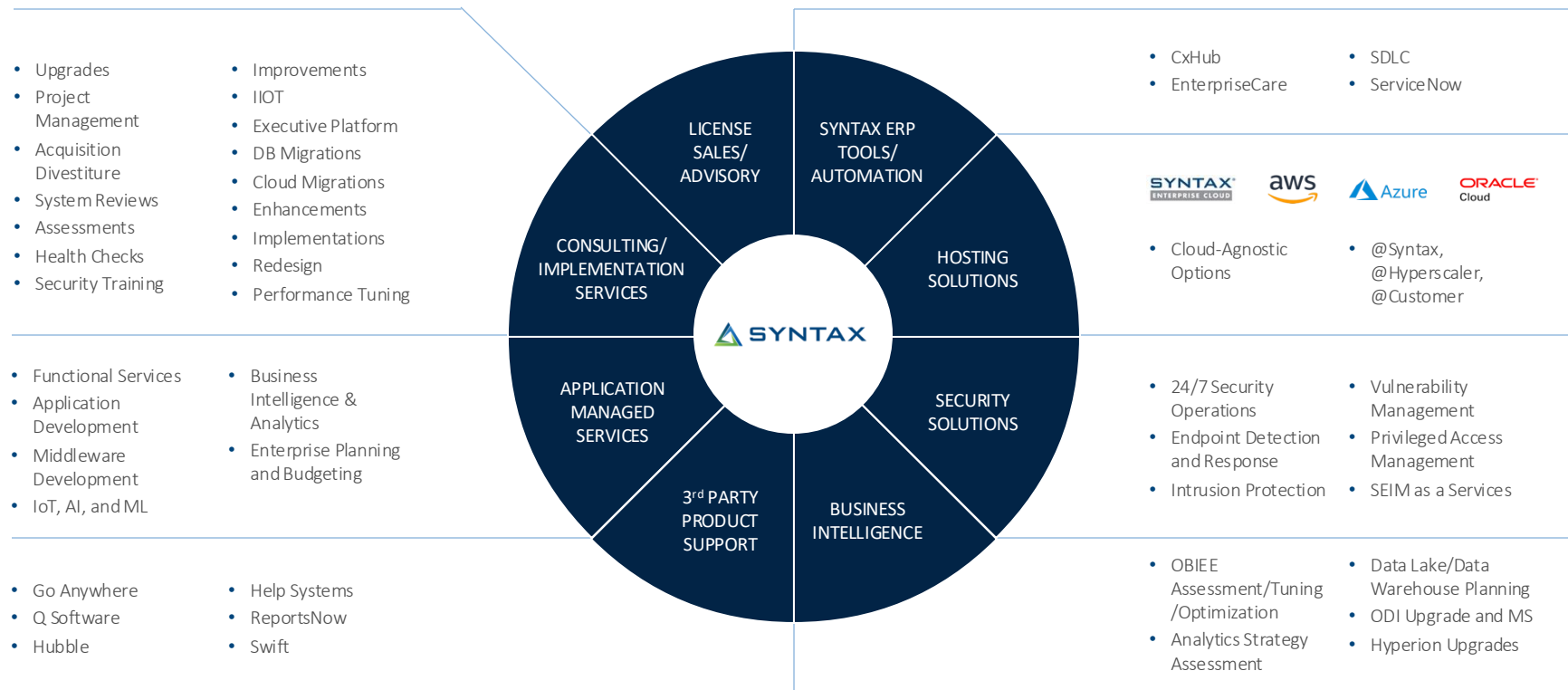
Mahesh Sathenjeri

Senior ERP Specialist
Syntax



- 23+ years of progressive IT experience including ERP systems, change control management, and SOX systems
- Extensive experience in process improvement around manufacturing, distribution and finance on initiatives like cost saving and performance improvements.
- Technical expertise includes Supply Chain, Operation Accounting, Distribution, Finance, HR, Compliance and Audit.

JD Edwards Solution Portfolio





Solution Overview

Capital Asset Management Module + IIoT



Solution Overview

| Fed Coop Solution

- What Sensor to use → Temperature Sensor
- How does Sensor Connects to JDE → WiFi using MQTT
- How do we collect data → Collect all sensor data
- When to take action → Condition based.
- What actions to be taken → Create Maintenance WO in JDE
- How do we inform business on the action taken → Front end App using Power App to display JDE data. This is for users who don't have JDE access

Solution Overview

Syntax Offering

Advisory

- Selection of Sensors
- Vendor Selection for Sensors
- Connectivity of sensors to Cellular or Wifi Network
- Cloud Selection (Azure, AWS, Oracle)

Implementation

- Connectivity of Sensor data to cloud
- Connectivity to JDE
- CAM Implementation
- Power App Implementation (Design and Development)
- Dashboard and Reports Including PowerBI
- Artificial Intelligence for Predictive analysis

Challenges in JDE (General)

| Challenges

- Access to external users like Service Technician, Temp labor in warehouse or shopfloor, HR Self Services
- *Portal for external parties – Supplier Portal, Customer Portal*
- *Connectivity to machines and IoT sensors*
- *Third party software to connect JDE such as RF scanning solutions, WO Scheduling, MES etc.*
- *Limitation in rendering JDE in tablet like iPad, hand held devices etc.*

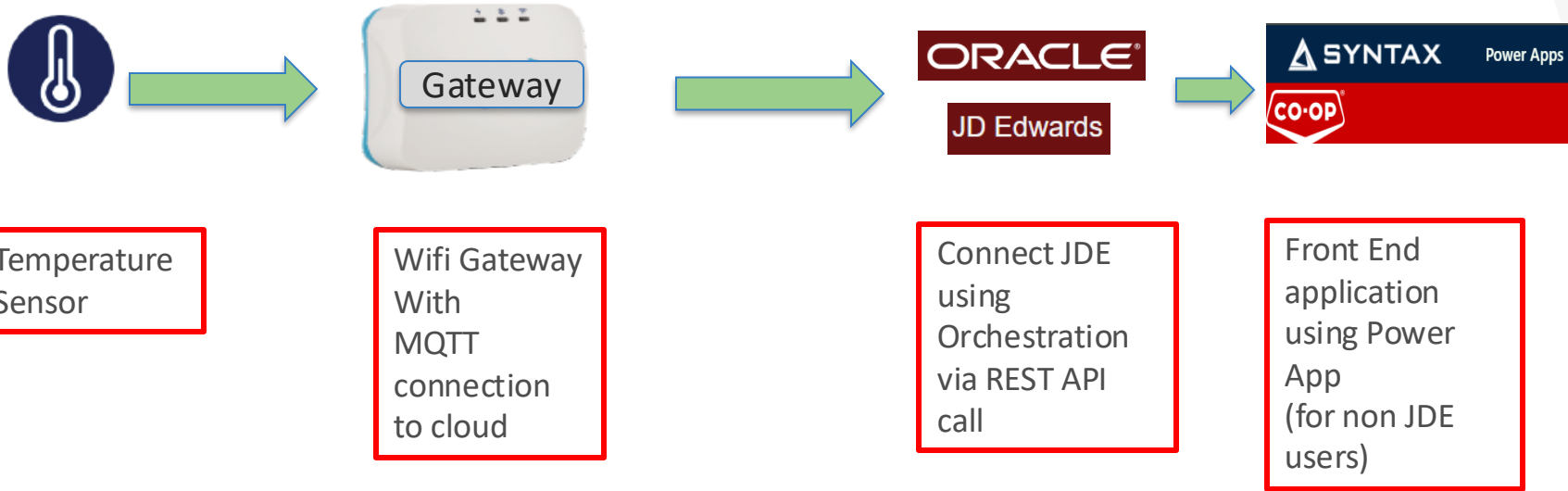
Possibilities with PowerApp

| Opportunities

- *Power Apps –*
 - *Fulfills the need for font end for non JDE applications such as Technician Portal, Supplier portal, Stand alone maintenance App, Vendor portal, HR selfservice*
 - *Replaces the need of 3rd party solutions and can be interfaced with RF Technology to JDE*
 - *Fits with Tablet, Phone and any other hand held device*
 - *Disconnected data capture feature. Mainly in Oil Rigs or areas where network is limited*

Architecture

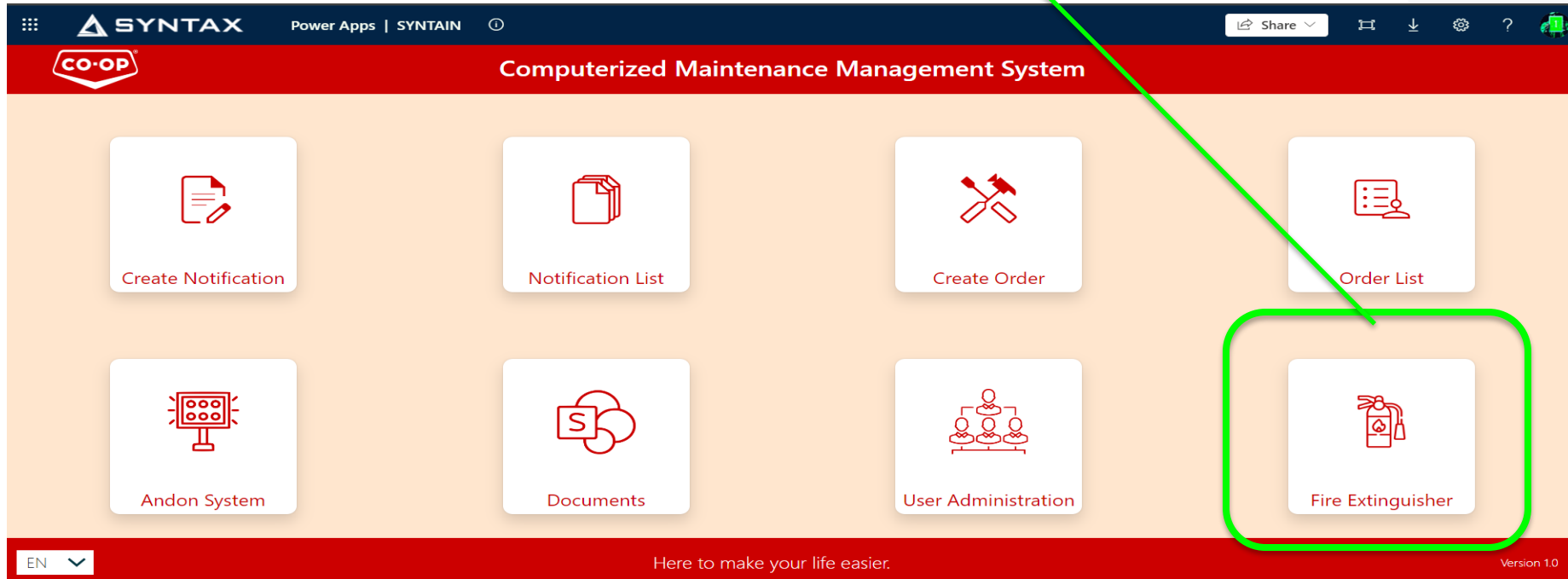
Solution Architecture



Screenshots and/or Demo

Front End on Power Apps

Stand Alone App



Screenshots and/or Demo

Front End on Power Apps

The screenshot shows a mobile app interface for creating a maintenance order. The header is red with the CO-OP logo and the title 'Create Maintenance Order'. On the left is a vertical sidebar with icons for home, list, document, folder, tools, chat, and a monitor. The main area has a light orange background and contains several input fields. The 'Description' field has 'Test data' entered. The 'Work Center' field has 'M30' entered. The 'Priority' dropdown is set to 'High'. The 'Equipment Number' dropdown is set to '24846 Exhaust Fan'. The 'Reported By' field has 'Ro Bot' entered. The 'Reported Date & Time' is '25/04/2024 11 : 31'. There is also a 'Detailed Description' field with 'Test data Test dataTest dataTest dataTest data' and a 'Pictures (0)' section with a camera icon.

CO-OP Create Maintenance Order

* **Description**
Test data

* **Work Center**
M30

* **Priority**
High

Reported By
Ro Bot

Detailed Description
Test data Test dataTest dataTest dataTest data

* **Equipment Number**
24846
Exhaust Fan


Pictures (0)

Reported Date & Time
25/04/2024 11 : 31





Screenshots and/or Demo




















Front End on Power Apps






Maintenance Order List



      	<div><div>● 5122998</div><div>testtttttt</div><div> Ro Bot</div><div> 24846</div><div>Released</div></div> <div><div>● 5122971</div><div>new</div><div> Ro Bot</div><div> 24854</div><div>New</div></div> <div><div>● 5122963</div><div>testt</div><div> Ro Bot</div><div> 24854</div><div>New</div></div> <div><div>● 5122955</div><div>demo at syntax</div><div> Demo User SYSEUIISDEMO1</div><div> 24897</div><div>Released</div></div> <div><div>● 5122947</div><div>test</div><div> Ro Bot</div><div> 24854</div><div>Released</div></div> <div><div>● 5122939</div><div>Problem with HVAC</div><div> Demo User SYSEUIISDEMO1</div><div> 24846</div><div>Released</div></div> <div><div>● 5122921</div><div></div><div></div><div></div><div>New</div></div>
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Order 5122971

Photos attached (0) 

Description

new

Detailed Description

TESTT

Work Center

M30

Equipment Number

24854

10 HP motor

Priority

Med

Status

New

Reported By

Ro Bot

Reported Date & Time

26/02/2024 11 : 59

Release Order

Work Permit

Material

Documents

Malfunction

Screenshots and/or Demo

Demo

Fed Coop Next Steps

Next Steps

Fed Coop is planning to add various sensors for its Retail and Refinery equipment

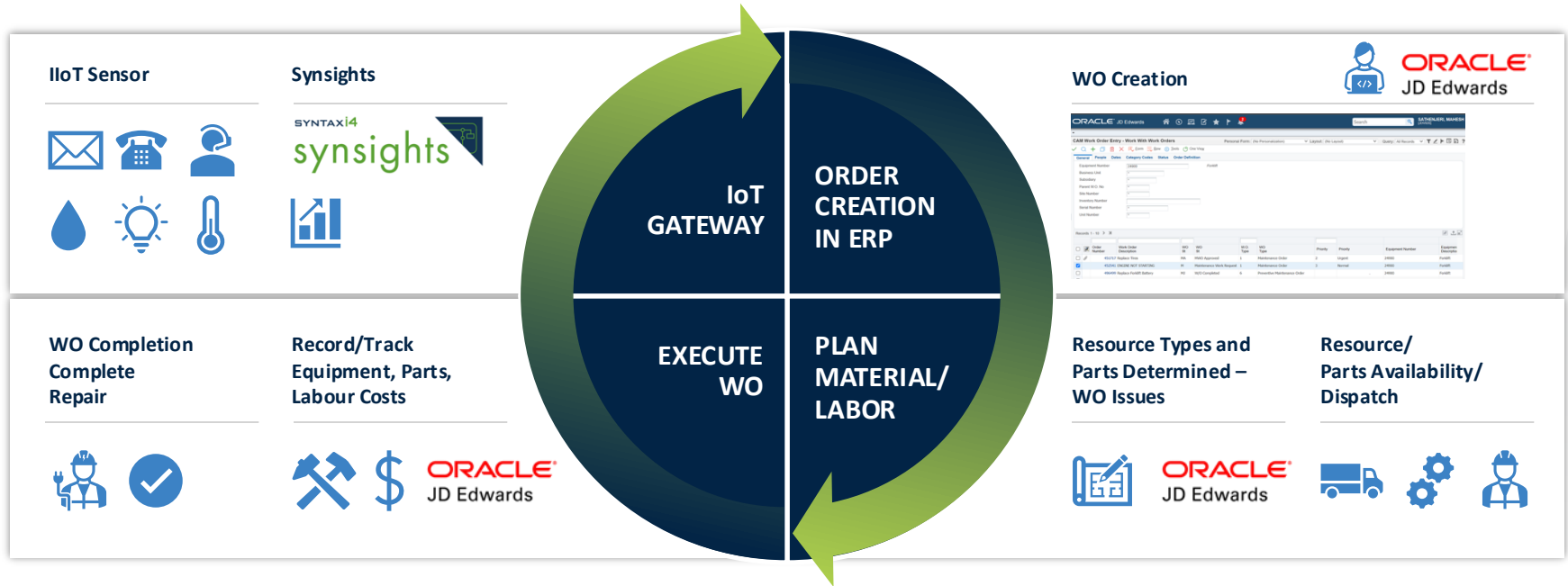
Roll out Maintenance Application front end for maintenance technician and users from different business units.

JDENext Level

Scalability:

- Not just CAM. JDE / PowerApp can be enhanced in various areas
 - Manufacturing
 - Quality Management
 - Robotics Integration
 - Procure to Pay
 - Quote to Cash
 - HR
 -and list may go on.

Capital Asset Management or Manufacturing Applications





Q&A

JD Edwards EnterpriseOne Capital Asset
Management Module





Thank You

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