# Innovation and continuous improvements

How can Infor Services assist businesses in optimizing and streamlining their solutions

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September 2023



Faster value recognition

## Global professional services

## Delivering exceptional customer outcomes by leveraging industry expertise with global prescriptive delivery

#### Global

We are where you are.
4500+ resources in GPS
across 40 countries

#### Time to value

Prescriptive delivery to produce faster
Time to Value

### Accountable for your success

Software and services from one organization

#### Innovative

Continuous delivery innovation through value added services

#### **Industry focused**

industry expertise in our people and process catalogues

#### **Breadth of Services**

One stop shop for your services needs.







### **Northern Europe Organization**

**Infor Services** 

- Nordics ~ 250 employees
- EMEA ~ 1350 employees
- Infor in total ~ 17000 employees

- Large and growing eco system

## Agenda

01

Infor Enterprise Platform 02

**Explore UX** 

03

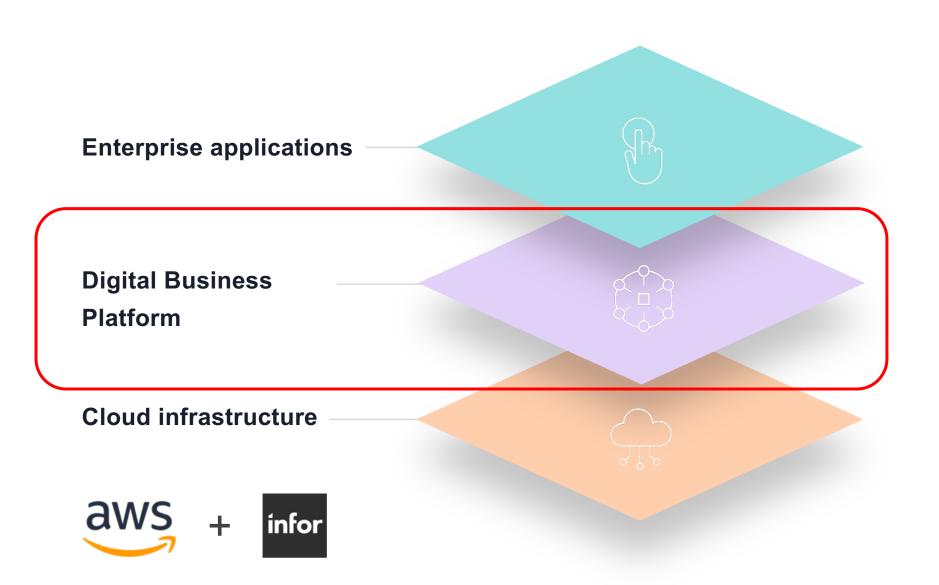
AI/ML

04

What's next

## Infor Enterprise Application Platform





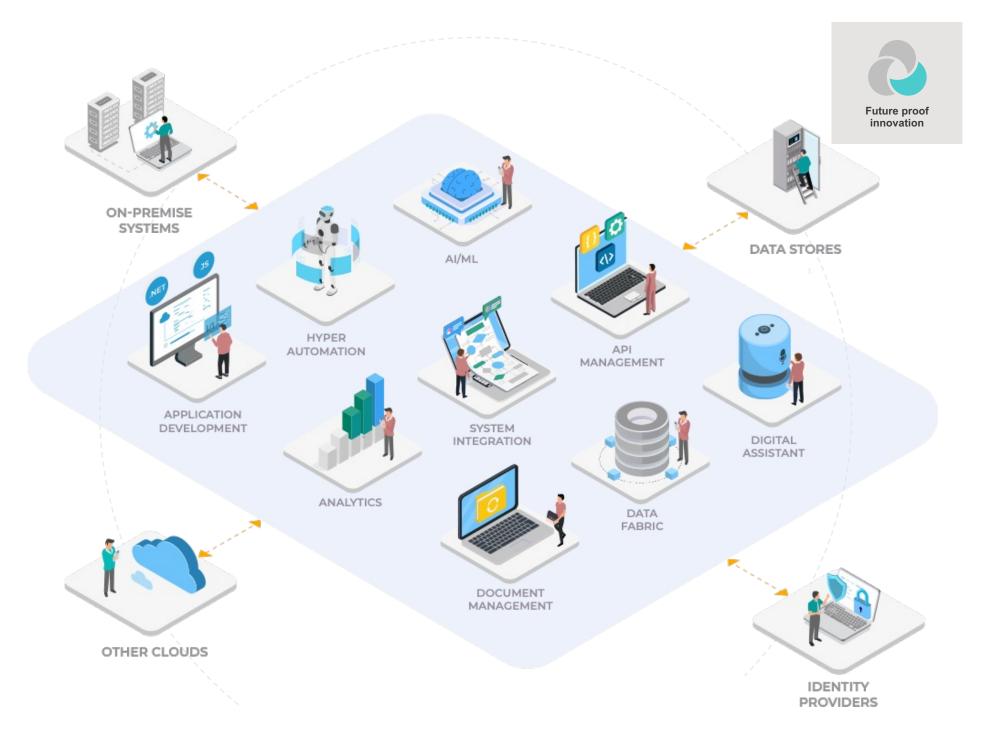
### **Highlights**

- Leverage a complete industry cloud strategy
- Employ a continuously innovative solution
- Reduce the complexity of your technology footprint
- Elevate your data strategy for contextual actions
- Increase efficiency and creativity for the business

# An open architecture

### Infor OS

- · Connect data from anything to anywhere
- Automate tasks across any applications
- Easily create apps for your unique needs
- · Direct access to all your data for Al
- Ability to analyze, visualize and act on data



It's all there, pre-integrated and ready to use

### Platform for innovation



#### **Industry 4.0 innovation**

Store IIoT sensor readings in data lake for data-driven decisions and hyper automation



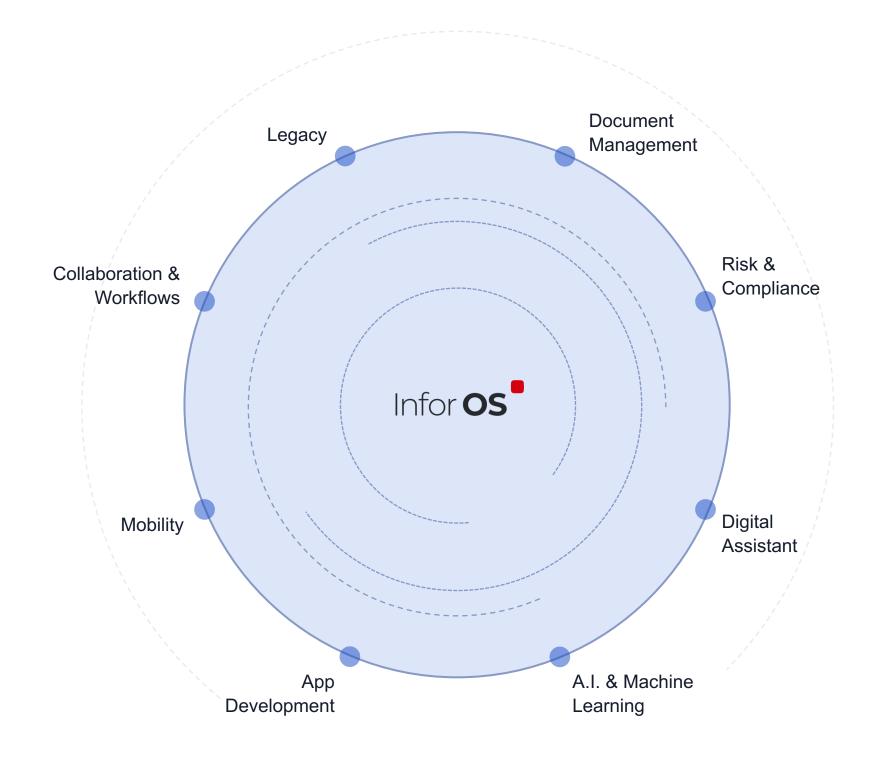
#### **Open and secure**

Leverage industry standards, open source and AWS infrastructure for resilience and security



## Connect the entire ecosystem all through the supply chain

Integrate with manufacturing execution systems and partners in the supply chain to achieve transparency



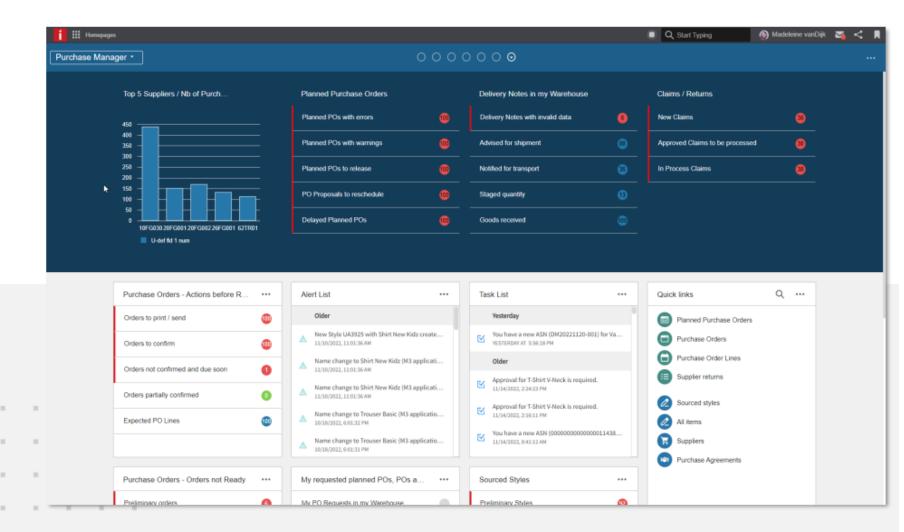
M3 Cloud

### **Innovation**

## **Industry solutions**

### **Highlight of Investments**

- · 15+ new industry homepages including CEO, CFO, Fleet Manager, Fixed Asset Manager, Rental Coordinator, Sales Controller...
- Embedded analytics across roles and process
- Purpose built widgets and workflows
- · Data management and loading templates for faster initial deployment
- Continues expansion of industry process data & processes
- Application Configuration Management phase 1 for handling selected configurations and artifacts



#### **Value**

- Faster value higher quality
- Lower Implementation Time
- More industrialized approach

## **Agenda**

Infor **Enterprise Platform** 

**Explore UX** 

AI/ML

What's next

**USER EXPERIENCE & EXTENSIBILITY** 

## **Explore UX**

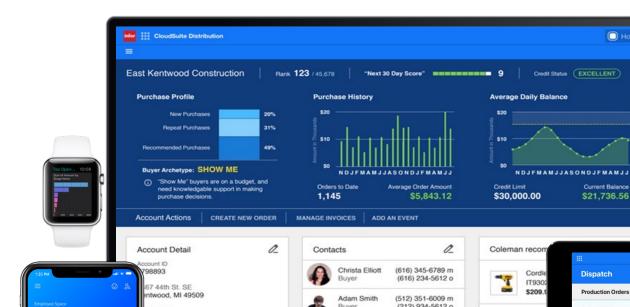
Supercharge Your Infor M3 Experience: Unleashing the Power of User Experience Add-ons



infor Explore UX | June 2023 Copyright © 2023. Infor. All Rights Reserved. infor.com

### **Infor CloudSuite**

Infor CloudSuite is a cloud solution that opens up for innovation and many opportunities for improving the user experience.





User experience



**Applied Machine Learning** 



Extensibility & App Development



Security / SSO





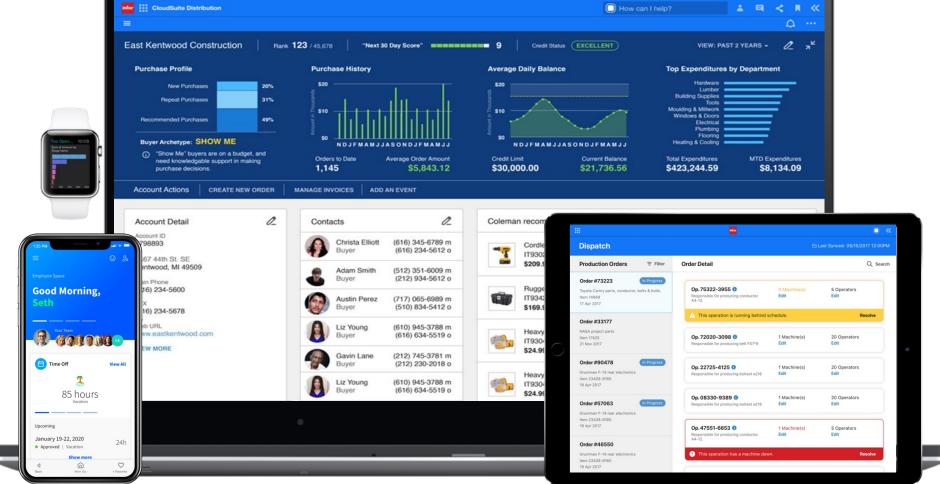
**Enterprise Portal** 

Paperless

**Document Management** 



Device & System Integration



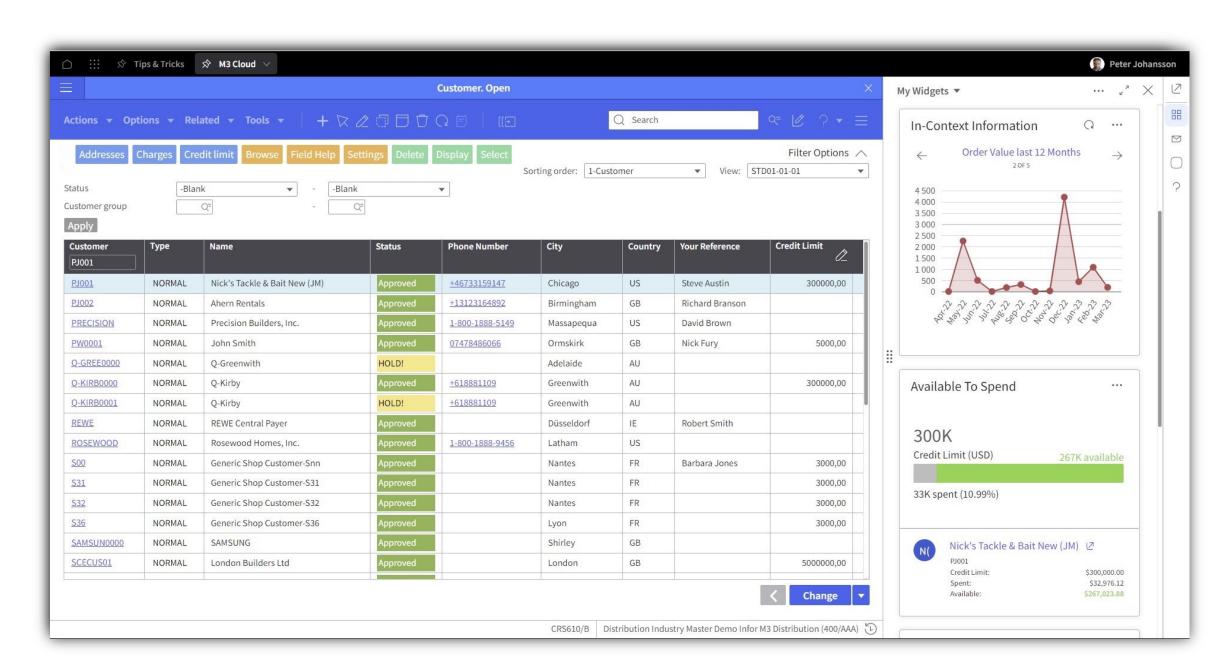
## Different Use Cases Require Different Tools

Level 1	Level 2	Level 3
Core Infor M3 - Basic options	Core Infor M3 – Advanced options	Integration Options for M3 Cloud Edition
<ul> <li>Personalization</li> <li>Sorting orders, filters and views, shortcuts</li> <li>Infor M3 H5 personalization (labels, hide/show fields, conditional formatting)</li> <li>Custom extension fields</li> <li>Enterprise search and bookmarks/shortcuts</li> <li>Functional Search</li> <li>Ad hoc Reports</li> </ul>	<ul> <li>H5 scripts (ISO scripts need to be re-written for H5)</li> <li>Xml Mashup for M3 13.4 only</li> <li>Infor M3 Experience Designer</li> <li>Infor OS App Designer</li> </ul>	<ul> <li>Infor Ming.le Homepage SDK and widgets; using custom APIs and Infor GO</li> <li>Mongoose and AppBuilder/AppHub</li> <li>Infor M3 H5 Mashup SDK</li> <li>XtndM3; Extensibility Development Tools for CloudEdition only</li> <li>Integration by APIs/BODs</li> <li>Infor M3 EDI integration</li> </ul>
Infor Ming.le framework – Basic options	Infor Ming.le framework: Advanced options	Integration Options
<ul> <li>Workspaces</li> <li>Custom menus</li> <li>Infor M3 Information creator</li> <li>Infor M3 information viewer</li> <li>Infor M3 information monitor</li> <li>Other application widgets</li> </ul>	<ul> <li>Related Information, in-context apps and in-context BI app</li> <li>ION workflows, alerts, tasks and notifications</li> <li>Birst and reporting framework</li> <li>Coleman Digital Assistant and Artificial Intelligence</li> <li>Infor Process Intelligence</li> <li>ION for integration</li> <li>IFS</li> </ul>	<ul> <li>Artificial Intelligence</li> </ul>
	Other M3 Specialist Applications	
	<ul> <li>Factory Track</li> <li>Infor M3 Sales Hub</li> <li>Infor M3 Demand Planner</li> <li>Infor M3 customer lifecycle management</li> <li>Infor Mobility</li> <li>Infor Supplier Rebates</li> <li>Infor Document Management</li> <li>Graphical LOT Tracker</li> </ul>	

## Standard Vs. Customized screens

### **Customer Master (CRS610)**

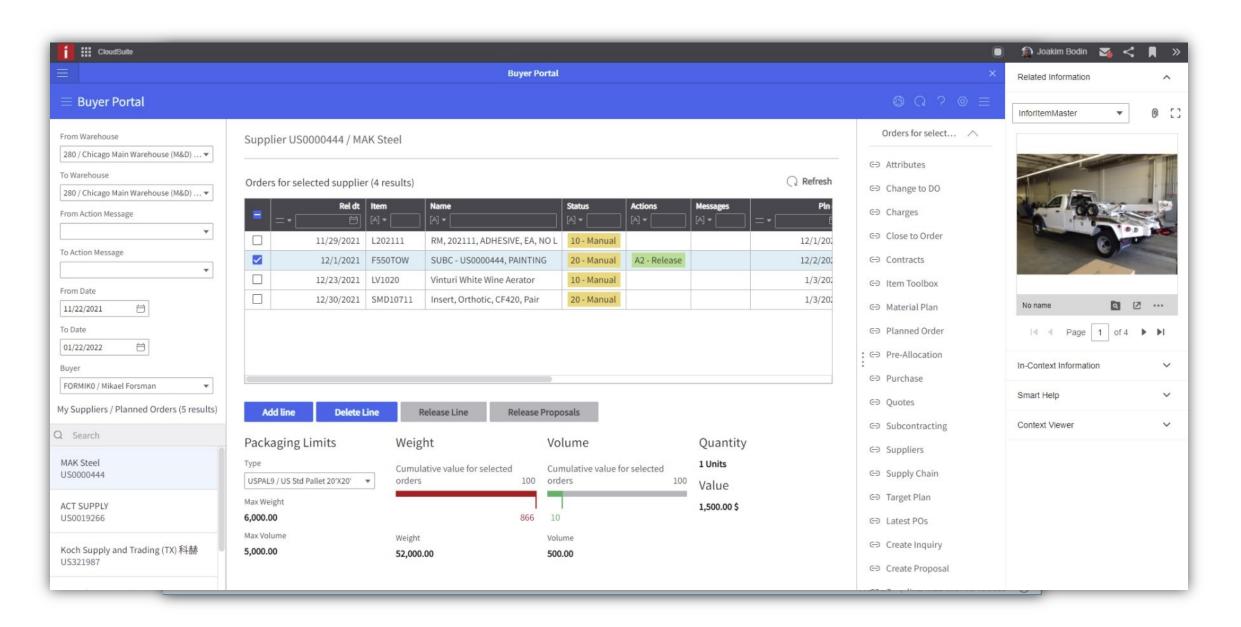
- Conditional Styling & Hyperlinks
- H5 Script Buttons
- Contextual Widgets



### Standard vs. Customized screens

### Planned PO (PPS170)

• M3 H5 SDK



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AI/ML

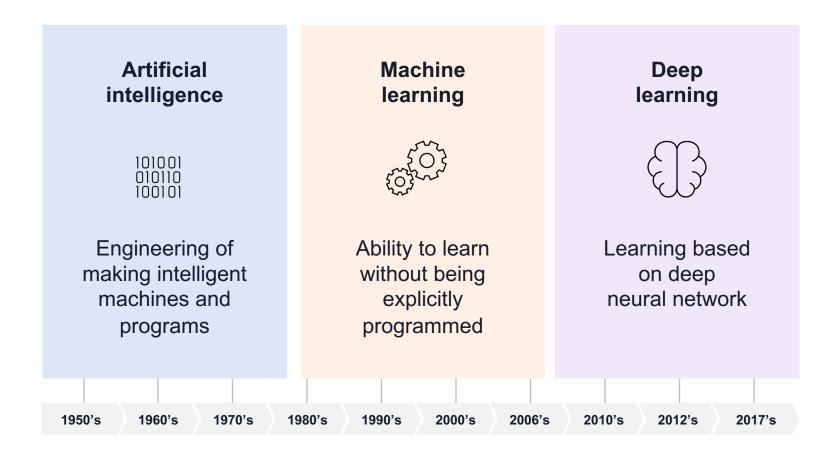
04

What's next

#### Infor Augmented Intelligence

## Before we get started

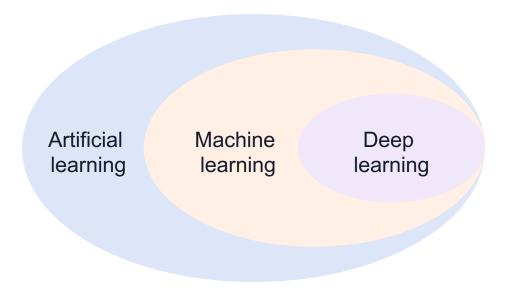
Level setting some definitions



Artificial Intelligence is a broad concept to make a machine intelligent.

**Machine Learning** is an application of Artificial Intelligence that enables a system to automatically learn and improve from experience without being explicitly programmed.

Deep Learning is a Machine Learning technique which is inspired from the process as our brain understands anything through neurons.



Reference: https://medium.com/analytics-vidhya/ai-ml-dl-whats-what-ecb354967e63

## **Drivers for artificial intelligence**

### **Operational** excellence

#### **Operational** Intelligence

- Maximizing yield of ingredients
- Reducing any waste
- Hyper-automation

### **Quality and** compliance

#### **Process** Intelligence

- Preventing noncompliance of processes
- Avoiding non-compliance of ingredients and products

### Supply chain optimization

#### **Predictive** Intelligence

- Predicting future demand more accurately
- Predicting quantity and quality of supply of raw materials

### **Profitable** growth

#### **Customer & Market** Intelligence

- Generating customer and market insights on what to sell for which price
- Improving customer interaction efficiency and retention

### Innovation & transparency

#### **Product** Intelligence

- Evolving the product portfolio based on market preferences
- Developing successful and cost-efficient products

Infor augmented intelligence AI/ML

## CloudSuite Al/ML capabilities available today

Categories of tangible use cases already proven in the marketplace

### **Operations intelligence** Improve efficiency



- Generate automated process triggers based on specified events or conditions
- Improved process efficiency and reduced manual processes

### **Asset intelligence**

Improve Reliability



- Maximize life of assets by predictive analytics on health and maintenance & parts needs
- Improved asset health, labour efficiency, inventory efficiency

### Forecast intelligence

Predict the future



- Predict future demand based on history and market conditions
- Reduce raw material and finished goods inventories based on projected demand

### **Pricing intelligence**





- Support pricing investment using market drivers and price history
- Improved pricing analysis to inform market centric pricing

### **Customer intelligence**

Focus on customers



- Generate insights of what to sell and how to keep customers happy
- Improved customer interaction efficiency and retention, revenue growth

### **Human capital intelligence**

Care about employees



- Understand & manage your most valuable resource
- Improved labour efficiency, reduced costs and employee satisfaction and retention

### **Innovation Showcase**

#### **Distribution**



- **Product Recommender**
- Order Anomalies for Customer / Item
- **Customer Segmentation**



- Product Recommender
- Order Anomalies for Customer / Item
- **Customer Segmentation**
- CSD Coleman DA skills



- Order Anomalies for Customer / Item
- **Customer Segmentation** C-Suite Analytics Adoption
- Portal V2 / IAD Early Adoption



**Shipping Container Cost Estimate** 



Pricing Insights



- **Customer Segmentation**
- AP Invoice Match Compliance / Correction
- Bulk Excel Upload
- Supplier Creation WF
- **Custom Workspaces**



Product Recommender

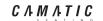


- **Custom Workspaces**
- Exploring Al usecase (customer/vendor science)

#### **Manufacturing**



- · Customer / Item Forecasting
- Order Anomalies for Customer / Item
- ION / IDM Expiring Contracts
- · CSI Analytics early adoption



- · Sales Opportunities forecasting
- Predicting Win / Loss
- · Vendor Performance Mgmt.



- · Order Anomalies for Customer/ Item
- **Customer Segmentation**
- CSI Analytics early adoption



Rigaku • Asset Intelligence



- Product Recommender Vendor Performance Mgmt.
- Infor OS Homepages Shopfloor Product KPI Visibility



- · Infor OS Homepages
- Requisition ION Workflow

#### **Public Sector / Services**



- FSM Coleman DA skills
- GHR Coleman DA skills
- SAM (Compliance) Checklist Requisition Anomaly



- Invoice Anomaly
- **Contract Depletion**
- FSM Coleman DA skills



- · HR Employee termination Dashboard
- FSM Period end balances anomalies
- RPA Invoice Processing

#### Healthcare



- GHR Coleman DA Skills
- RPA User Provisioning Automation for New Employee



- OIG (Compliance)Checklist
- · Vendor Performance Mgmt.
- Requisition approval anomalies
- FSM Coleman DA skills with Infor GO



- · OIG (Compliance) Checklist
- Vendor Performance Mgmt.
- Smart Picking
- FSM Coleman DA skills



- OIG (Compliance) Checklist
- · Vendor Performance Mgmt.
- · Item Requisition Patterns
- Requisition approval anomalies
- · Match Tolerance
- FSM Coleman DA skills



- Duplicate Employee Detection
- Job position workflow anomalies
- BIRST Compass Driver EA
- GHR Coleman DA Skills

#### **Automotive**



- · Vendor Performance Mgmt.
- Clock in Kiosk App
- Birst Coleman DA integration



Pulley Tightening Failure Prediction

#### Food & Beverage



- Product Recommender
- · Price Recommender
- **CLM Recommendations**
- RPA Product Withdrawal Automation





**Quality Sensing Tower** 



GRC Implementation for IT organization



codes prediction

Invoice Matching – Reason



Custom workflows – M3 to 3<sup>rd</sup> party

#### Retail



Margin Anomaly Detection Sales Budget Forecasting

#### **Other**



Demand forecasting (new/spare tires)



- Spare Parts Forecasting **Inventory Optimization**



Asset Health prediction

Solutions demo

## **Pricing visibility**

#### **Business opportunity**

Company seeks insight to pricing improvement opportunities during the sales cycle. Seek to provide regional sales representatives with targeted information in order to maximize margins for each potential order

#### **Objective**

- Identify pricing insights to key users focused on specific categories such as product, margin, customer and location/region
- Provide transparency to pricing to company leadership as it occurs

#### **Approach**

- Using a clustering/segmentation techniques to determine the relationship between product, margin, customer and location
- Understand price behavior of each product across all locations.
- Help improve pricing decision by visualizing the relationship between Product/Margin and Margin/customer
- Classify transactions using intuitive labels to help drive pricing decisions

#### Impact & key results

<1 S
Improved pricing decisions

1-10%\*
Margin improvement on orders

100k+\*

Price recommendations per month

Global price/Margin visibility

\* Anticipate, awaiting validations



Use cases – Pricing decision intelligence

## Pricing decision intelligence

Enabling users to make better pricing decisions using the AI/ML by understanding their customers preferences and product assortment better. Improved customer happiness, increased customer orders, retention and product positioning are at the core of Pricing Intelligence.



### **Product Grouping**

Intelligent customer segmentation helps marketing and sales teams to strategically guide decisions on client targeting, ensuring selection of clients most receptive to a campaign



### **Customer Segmentation**

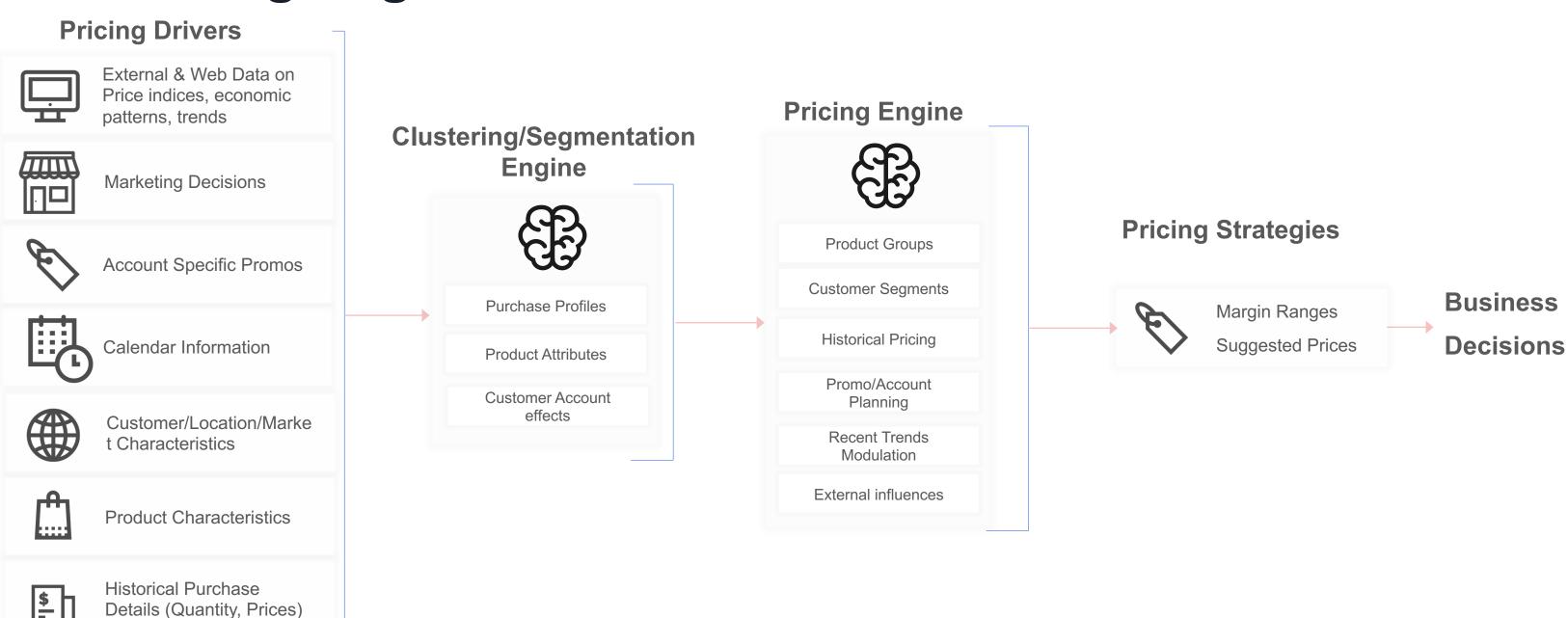
Intelligent customer segmentation helps marketing and sales teams to strategically guide decisions on client targeting, ensuring selection of clients most receptive to a campaign



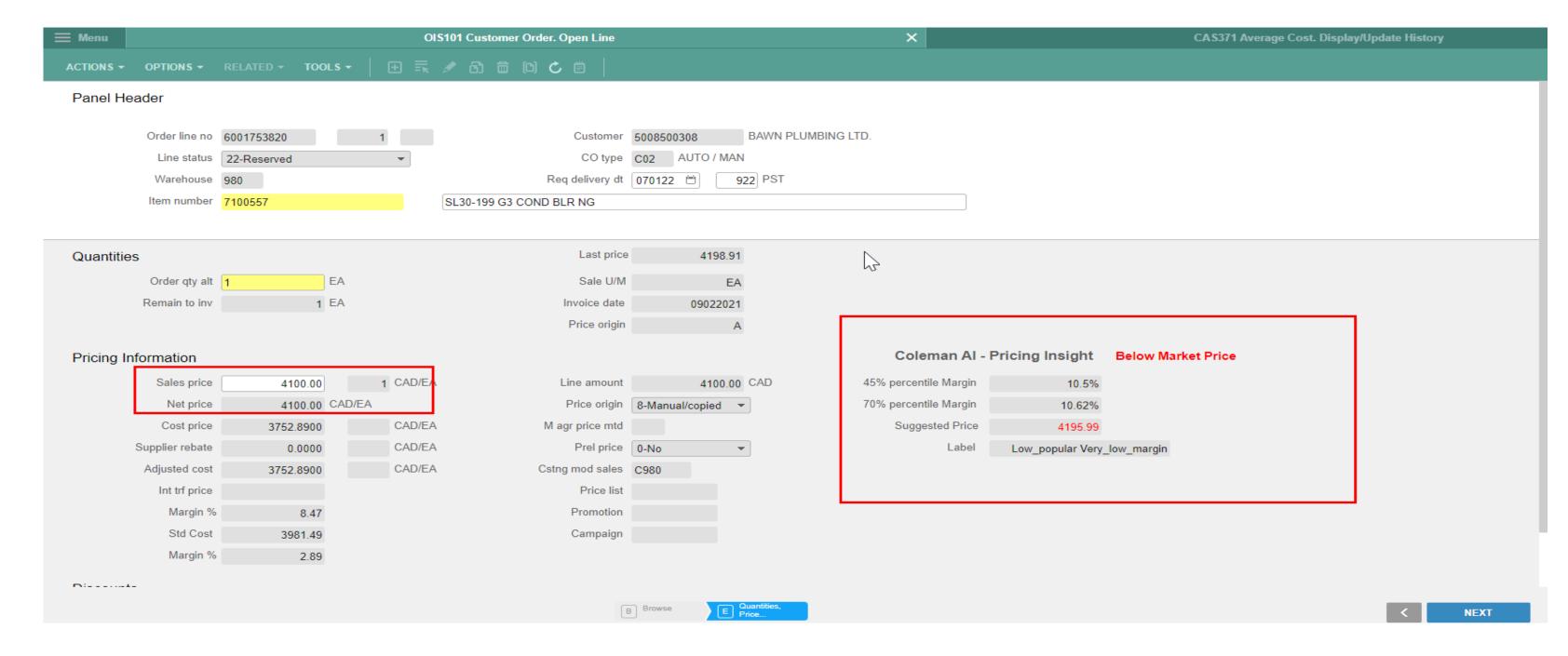
### **Margin Recommendation**

Understand price outliers to determine where optimal pricing should be set to increase sales or identify market opportunities. Eliminate unnecessary discounting

## **ML Pricing Engine**



### Visualization





Machine Learning use cases

### **Product and price** recommendation

Zeelandia has implemented AI driven intelligent product and price recommendations for sales and marketing, resulting in:

- 83% faster product recommendations to customers from 30 minutes to 5 minutes
- Better customer experience with personalized product recommendations
- Increased revenues and share of wallet per customer
- Increased marketing conversion for new products or products that are about to expire

Under 90 days of effort to deploy.



**CUSTOMER SUCCESS: ZEELANDIA GROUP** 



#### www.zeelandia.com

### Improving the customer experience with Al driven recommendations

Founded in 1900 by the Dutch Doeleman family, Zealandia has become a global player in the bakery ingredients business. Today, 3,200 employees worldwide are dedicated to develop products tailored to local tastes and needs – with operations in over 30 countries and sales in about 100 countries. Zeelandia was awarded with the Dutch 'Royal' predicate in 1950.

**HQ:** Zierikzee, The Netherlands

**Industry:** Food & Beverage – Bakery ingredients

#### **Solutions**

- **⊘** Infor OS
- **⊘** Infor Birst

Innovation Showcase:
Zeelandia enhances
customer experiences
with Al-driven
recommendations YouTube



Our goal is to be a trusted partner with bakeries by offering them the right products at the right price so that they can keep their customers happy and loyal. With Infor's Al-driven recommendations for products and pricing, not only do our salespeople save time in preparing for customer meetings, but Zeelandia stays true to what we value most – customer intimacy. "

MICHAL RADA, CORPORATE ICT DIRECTOR AND TRANSFORMATION LEADER ZEELANDIA GROUP

### Challenges

- Higher cost and unavailability of bakery ingredients requires new sales and pricing strategies to keep long-term customers loyal, and at the same time meet profit goals
- Preparing to meet with customers to analyze what products to recommend is time consuming and error-prone
- Poor customer service when salesperson wastes customer time by not recommending valueadded products
- Low marketing conversion when targeting customers for products
- Stay competitive in pricing to retain customers
- Spreadsheet driven process for pricing thousands of products across hundreds of customers, was no longer scalable, as it is a time-consuming and error-prone

#### **Outcomes**

83%

90

faster recommendations

days time to value

- Al driven intelligent product recommendations for sales and marketing
- Speed: 83% faster to prepare product recommendations for a customer meeting improving sales productivity- from 30 minutes to 5 minutes
- Better customer experience with personalized product recommendations
- · Increase revenues and share of wallet per customer
- Increase marketing conversion for new products or products that are about to expire
- Under 90 days of effort to deploy
- Al driven optimal pricing recommendations for sales
  - Improve customer loyalty, offering the right price and why
  - Meet profitability goals with optimal pricing
  - Improve productivity through machine generated pricing

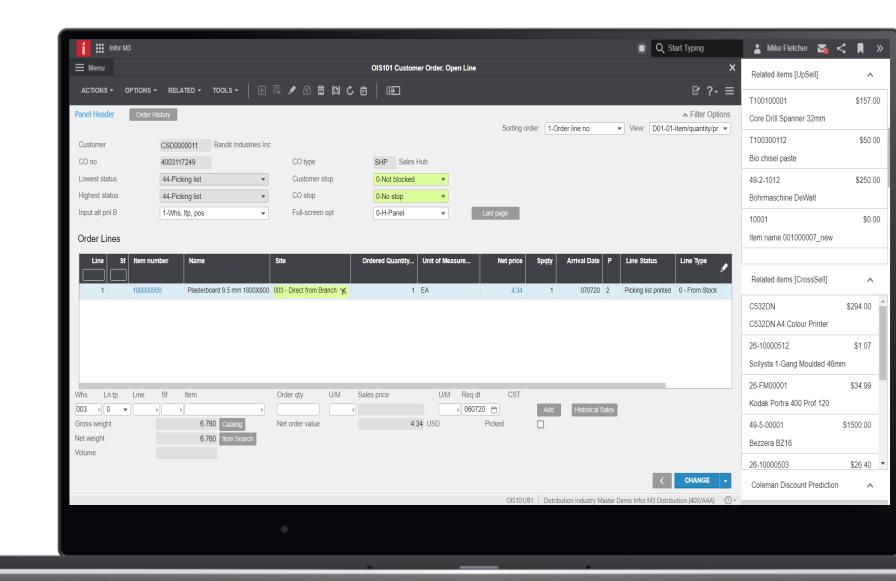


Machine Learning use cases

### **Product recommendation**

- Description
  - Two Coleman Quests & In-context Apps to support product recommendations. The In-context widget is configurable to support a number of scenarios.
- Capability
  - Product Up-Sell Quest
    - For this process; the item number already selected is reviewed and suitable up-sell products are displayed.
  - Product Cross-Sell Quest
    - For this process; the item number already selected, and the Customer ID are reviewed, and suitable cross-sell products are displayed; based on similar customer's prior purchases.

KB reference 2132011



Machine Learning use cases

# Sales order line discount recommendation

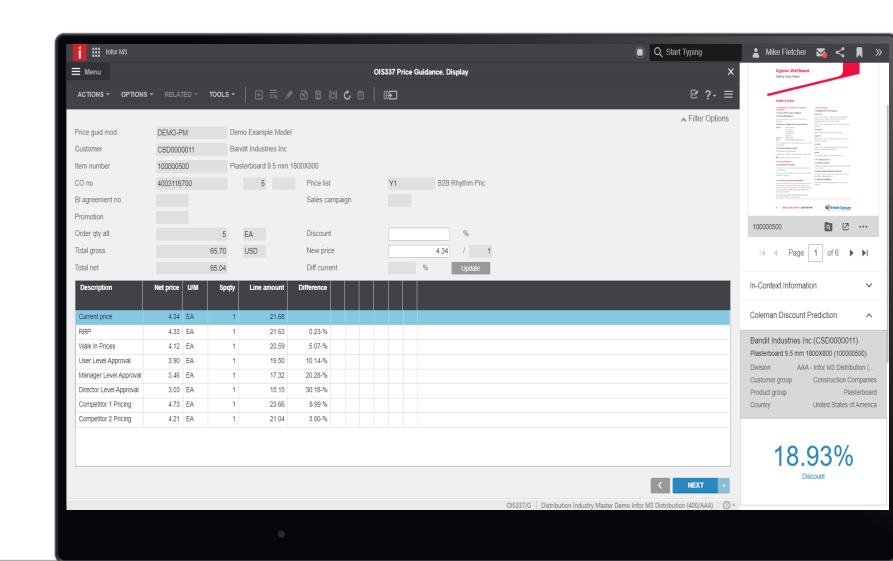
#### Description

Using information from the current customer order –
provide recommendation on maximum discount level
to be applied for that order line.

#### Capability

- Provide better decision support as part of the over-thecounter price negotiation process.
- Supports standard M3 process of price guidance; so additional discounts are recorded and controlled with approval routine if needed.
- Example model can be adjusted as part of the implementation project; using the no-code / low-code solution.

KB reference 2132011



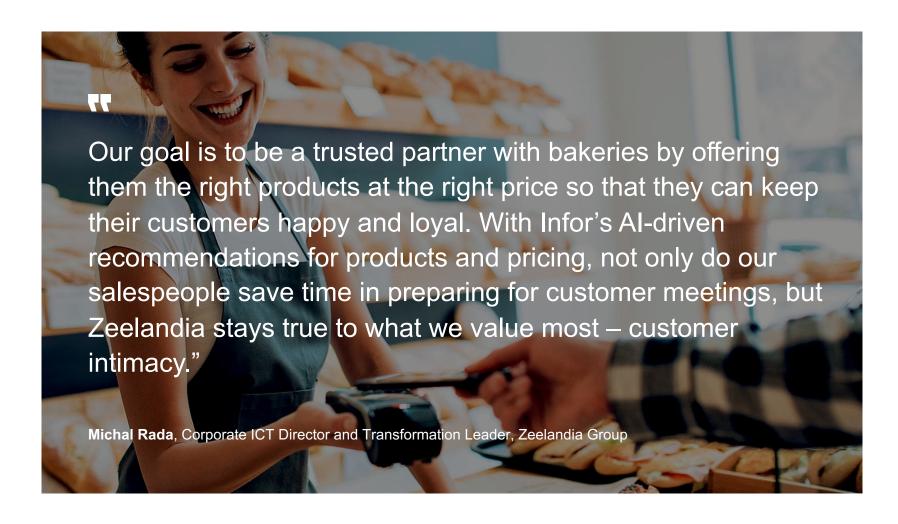
#### **Innovations**



Koninklijke Zeelandia Groep is an inventive Dutch family business with branches in 31 countries and over 3,200 employees developing and producing bakery ingredients.

Zeelandia leverages the power of Infor's platform technology as part of Infor CloudSuite Food & Beverage to improve the accuracy and speed of key business process to sustain business growth despite current market challenges.

Zeelandia improved the customer experience and revenues with Al-driven recommendations.



9 days time to value

33%

Reduced time to prepare product recommendations for a customer by 83%, from 30 minutes down to 5 minutes

## **Proof of Concept – product advisor by ChatGPT**

#### **Products Advisor:**

product information from ChatGPT:

- Product specifications
- Competitive products
- Compare Products
- Advantages over (coming soon)

#### **Applicable Industries:**

- Distribution (primary)
- Food & Beverage (secondary)
- Fashion (less applicable)

#### **Applicable Roles:**

- Sales & Customer Service

#### Value:

Instant access to product information for customer service when speaking to customers. Don't need to look up product information, or rely on years of experience

**Incontext Data:** (Item Master MITMAS)

External Item # (ITNE)

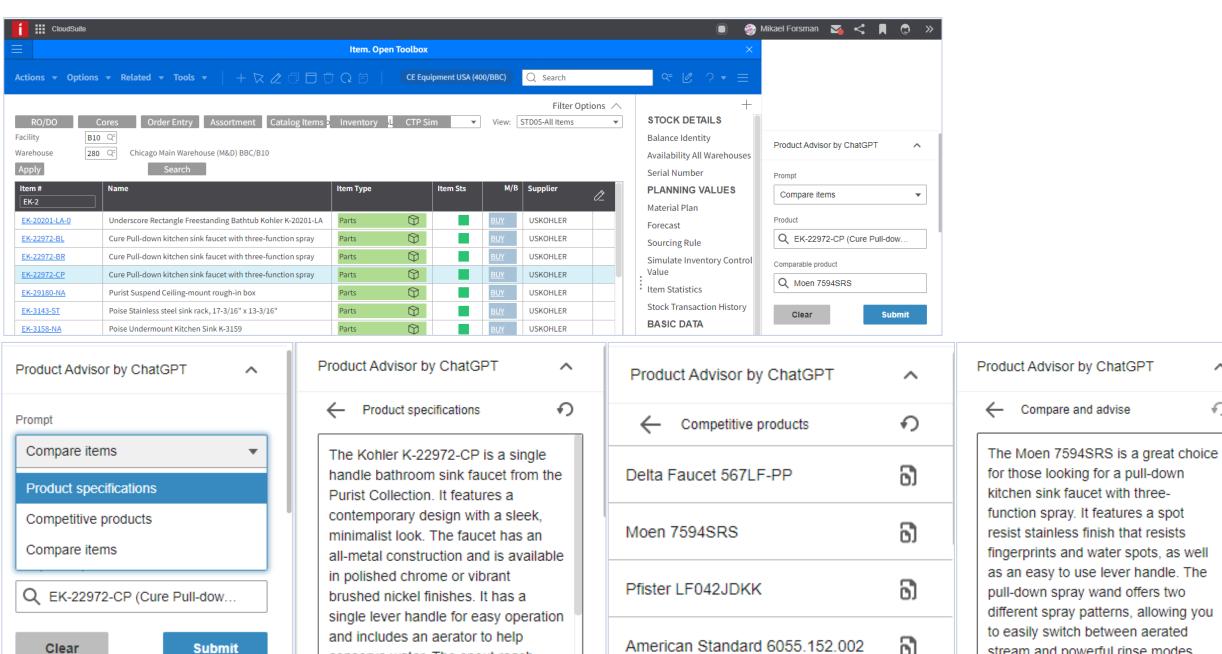
Manufacturer (PROD – name from CIDVEN)

#### Where:

Production Information: MMS200 & OIS101 (and SalesHub)

Clear

Submit



conserve water. The spout reach agourge 4.2/4 inches and t

infor

stream and powerful rinse modes.

 $\sim$ 

←)

## Proof of Concept – customer advisor by ChatGPT

#### **Customer Advisor:**

Customer information from ChatGPT:

- Current credit position
- Financial strength

#### **Applicable Industries:**

- Distribution
- Food & Beverage
- Fashion

#### **Applicable Roles:**

- Sales & Customer Service
- Accounts Receivable, Credit & Finance

#### Value:

Easy access to external views of credit and financial stability of a customer or prospect

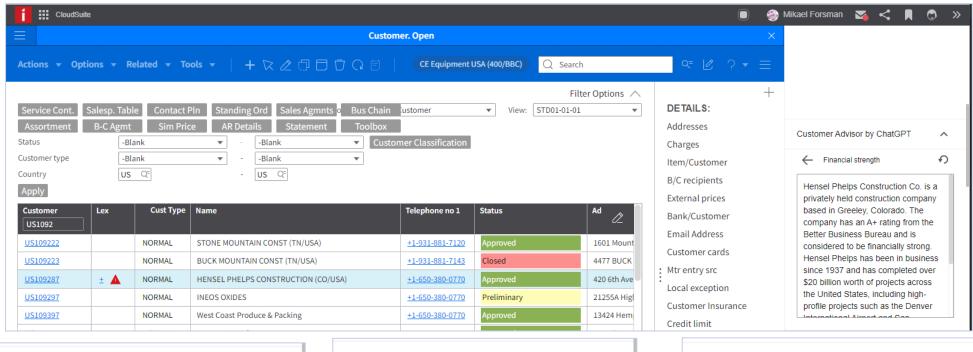
Incontext Data: (Customer Master OCUSMA)

**Customer Name** 

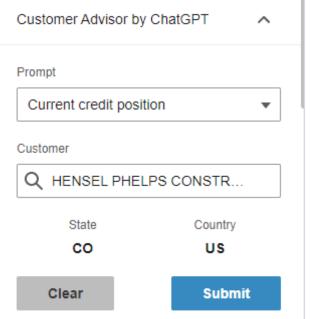
Country State

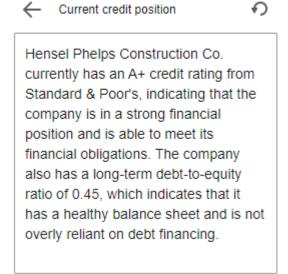
#### Where:

Customer Information: CRS610, OIS300, & ARS200

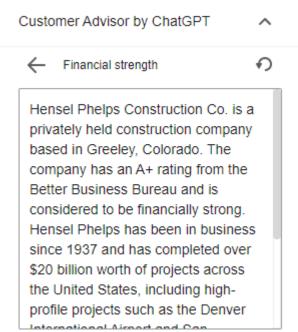


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Customer Advisor by ChatGPT



## Agenda

Infor **Enterprise Platform** 

**Explore UX** 

AI/ML

What's next

### Infor Technology Innovation Showcases





https://www.youtube.com/c/InforTechnologyPlatform





















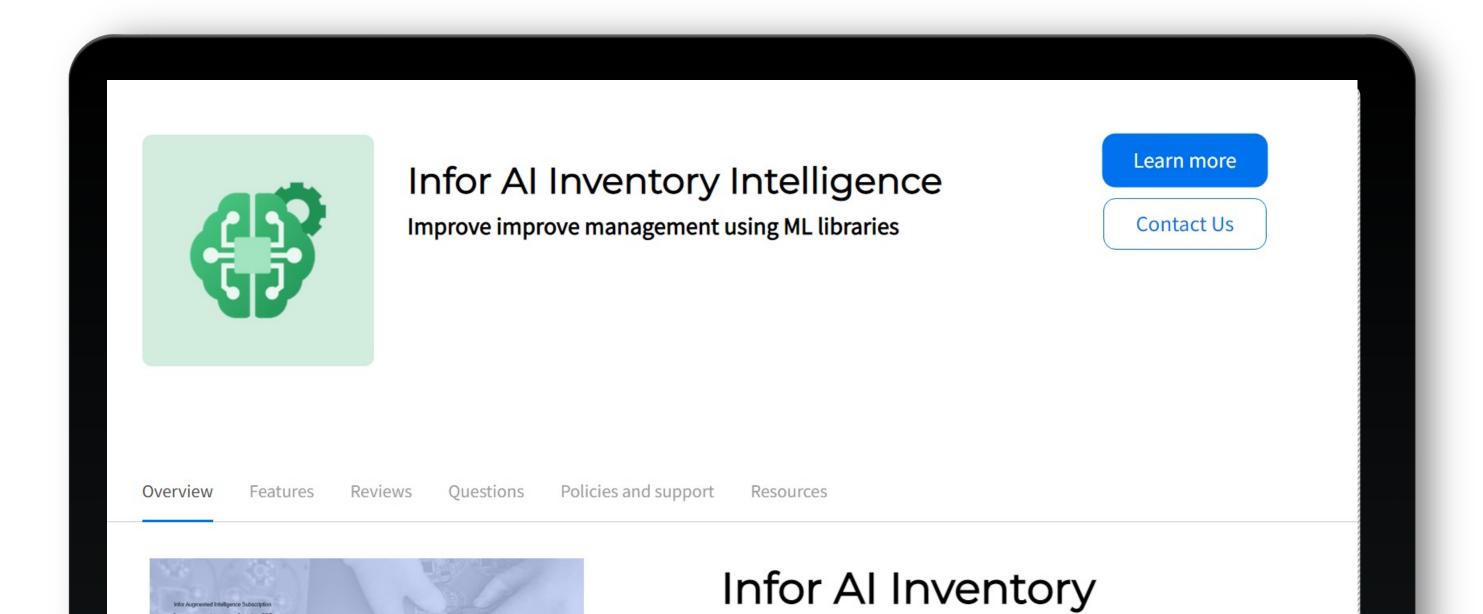




## **Infor Marketplace**



marketplace.infor.com



## **Common questions**



"We have the expertise on staff"



"We have the tools and roadmap"



#### What experience does INFOR have in this space?

- Team of 30+ Data Scientists, Engineers, Solution Managers
- 4 PhDs, multiple patents filed, 100+ of years collective experience
- Focused on build-out of INFOR specific use cases last 3 years

#### How is Infor able to deliver so quickly?

- Infor starts from a basis of pre-defined models that can be modified to purpose
- Methodology from initial design, integration, model change and deployment and support are established
- InforOS facilitates data migration



"We help drive business value"

#### How does Infor ensure results?

- Establish measurement criteria based on customer defined value and consistently monitor
- Focus on user adoption and understanding through design, training, feedback and reporting
- Constant iteration, always improving the accuracy of the solutions

#### INFOR APPLIED INNOVATION

# Innovation Workshop Idea structuring

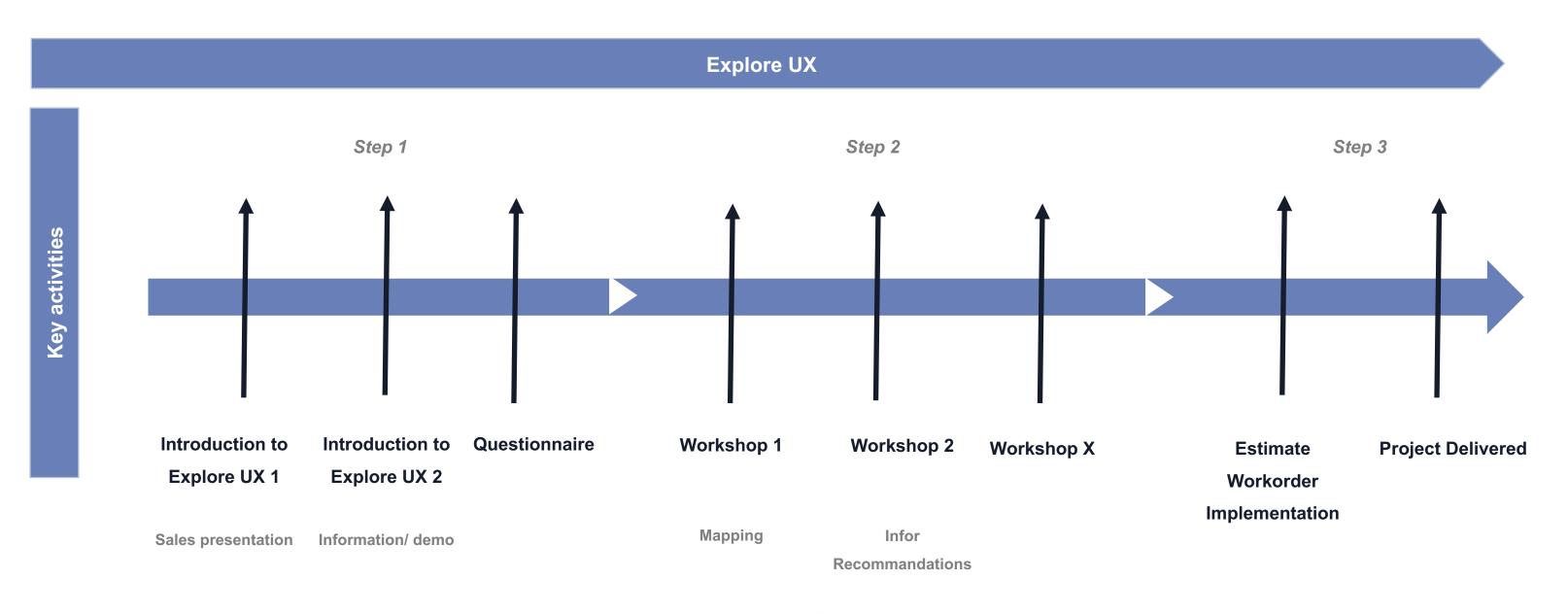
Idea generation should preferably start before the actual Innovation Workshop starting with the "end in mind"; What challenge or business need does this solve or achieve?

Use-cases and good examples from other companies can be an excellent trigger for idea generation.

In a Innovation Discovery Workshop we don't aim to deep-dive in the individual ideas and usually a one-pager per idea is sufficient to move forward and do the initial priority assessment.

3. AU	JTOMATE o	R Differe	ntiate
4. Further Expla	in the idea		
- 100 4 1 41		4 01 1151	
5. What does th	is idea SOLVE	or ACHIE	/E
5. What does th	is idea SOLVE	or ACHIE	/E
6. Which out of	category com <sub>l</sub>	oany can w	e learn from
6. Which out of o	category com	oany can w	
5. What does the	category com	oany can w	e learn from
6. Which out of o	category com	sly impact	e learn from

### **Explore UX Overview**

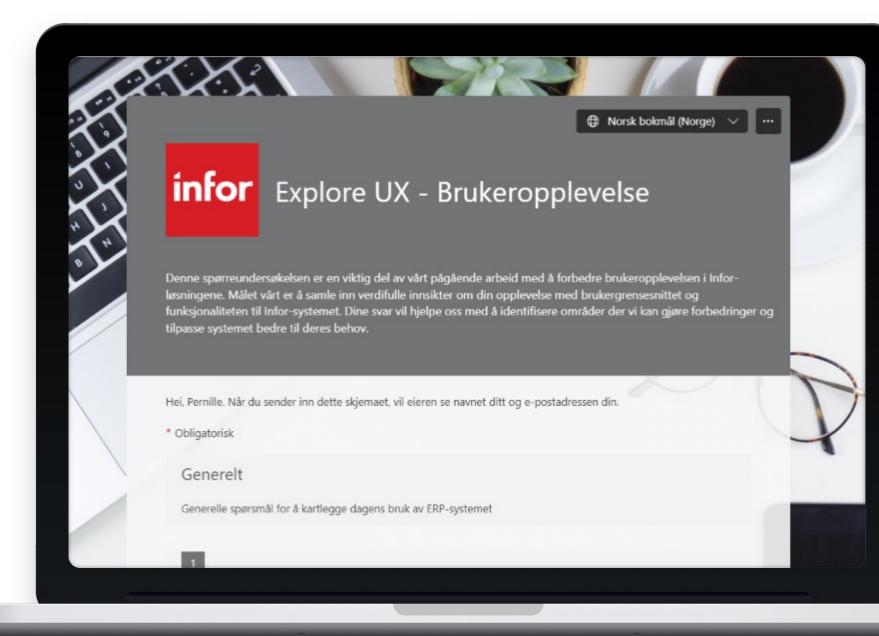


#### INTRODUCING EXPLORE UX

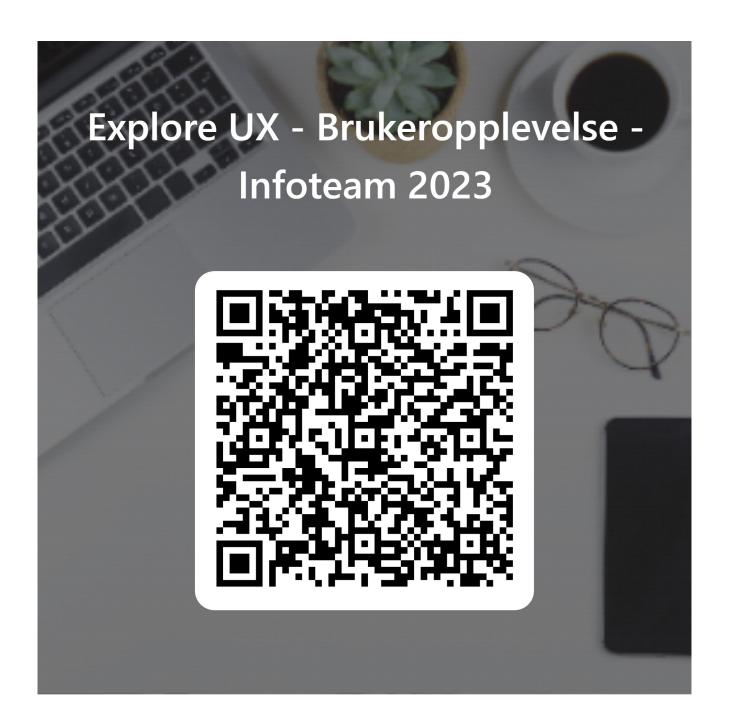
## **Explore UX - Questionnaire**

- **Online Customer Survey** 
  - Role: Process owner, Super-user and End-user
  - Process: Sales, Procurement, Production, Finance and Warehouse
- Gather information and map user experience
  - The point is not to target the processes
- Which tools have already been applied?





## **QR-EXPLORE UX**





# Real-time value at work

Industry Cloud designed for business growth and user satisfaction—**ERP simplified**.

infor

ERP Simplified.
Smart, Preconfigured, Modern.

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