

ORACLE

# Enterprise Automation Episode 2: Here and Now with JD Edwards Release 24

JD Edwards Nordic Conference

May 14, 2024

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Product Manager

Oracle JD Edwards



# Agenda

**1**

**A Quick  
Review of the  
Enterprise  
Automation  
Vision**

**2**

**Recent  
Enterprise  
Automation  
Enhancements**

**3**

**Other Cool  
Enhancements in  
the JD Edwards  
Digital Platform**

**4**

**What's Next?**

# Enterprise Automation

A Quick Review of the Vision

# Enterprise Automation





# Your Data is Your Digital Gold



# Enterprise ~~Process~~ Automation

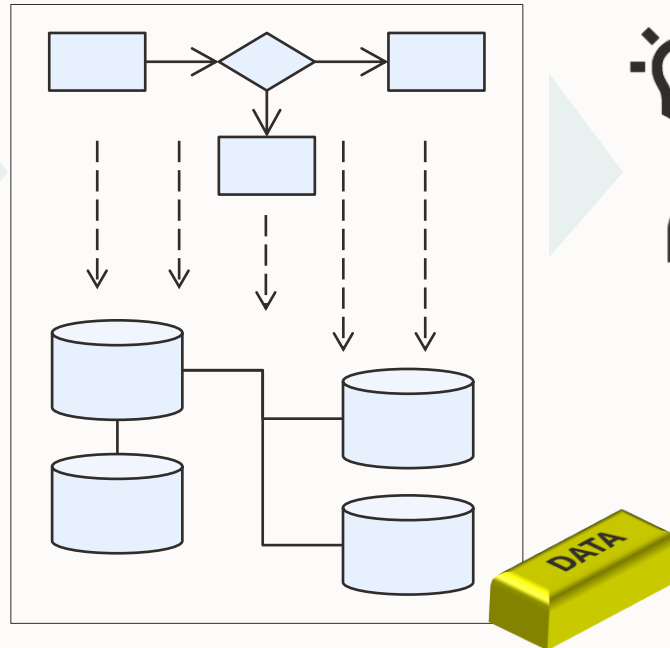
Improve enterprise-wide operations through integrated automation and the data it generates

- Expand the focus from individual transactions to your business as a whole
- Make better use of the data you already have to reveal “blind spots”
- Easily define the processes and data you need for better visibility

Automation is pervasive throughout the enterprise



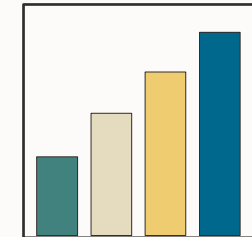
Automation generates insightful data...



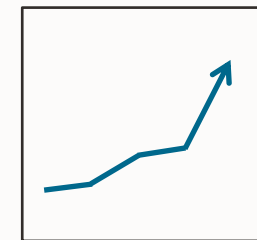
...which leads to innovation...



...and continuous improvement



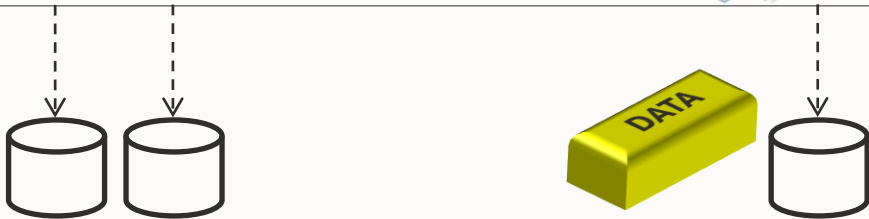
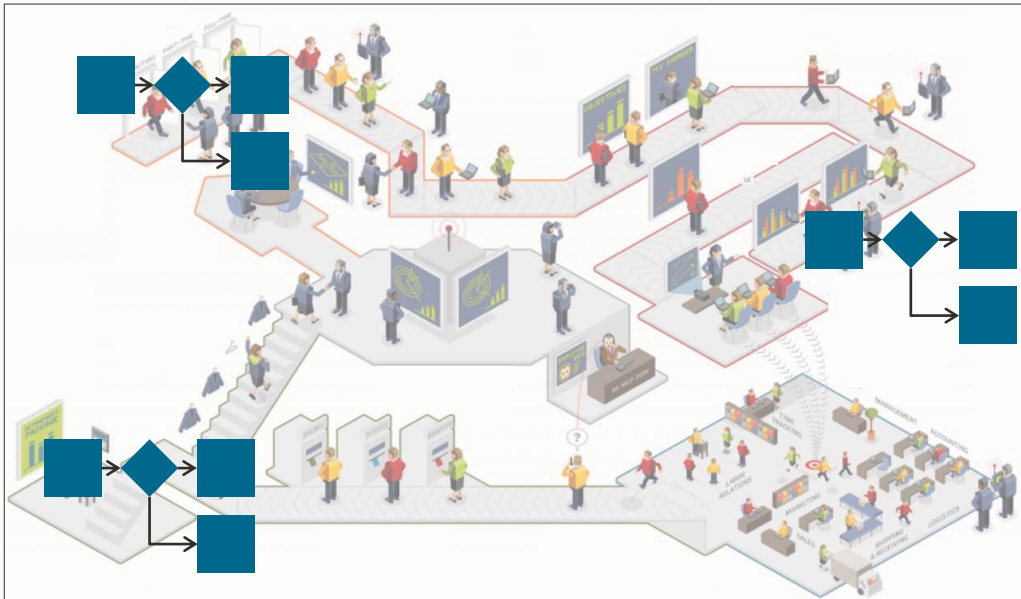
- Operational Metrics:
- Profit
  - Customer Satisfaction
  - Delivery time
  - ...



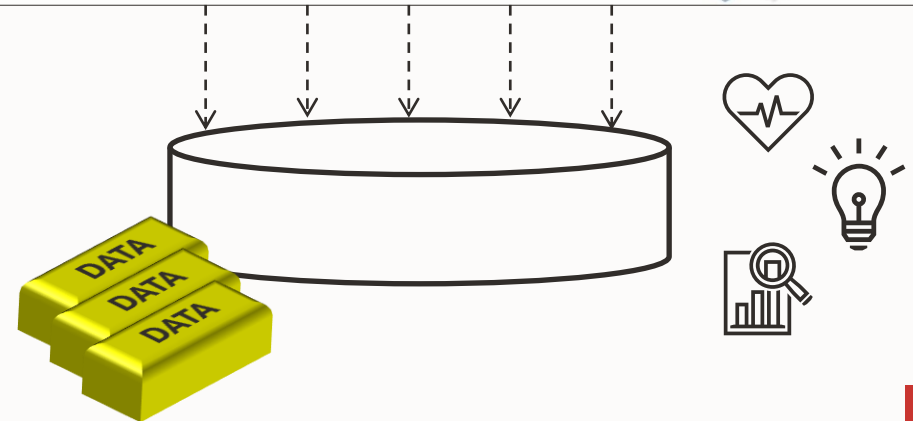
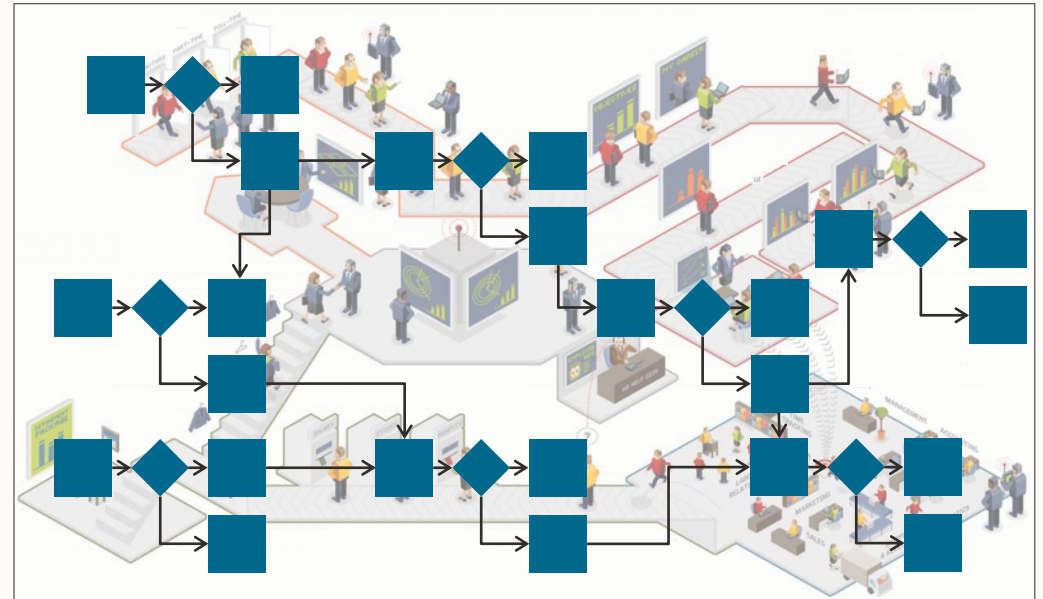


# Process Automation versus Enterprise Automation

## Process Automation



## Enterprise Automation





# Purchase order 1234 created on 5/7/2024

**Order Header**

✓ ✗ ↶ Form ⚙️ Tools

Order Header
Additional Properties
Category Codes

Order Number	1234	OP	00001	Branch/Plant	30
Currency	USD	Exchange Rate		Base	USD <input type="checkbox"/> Foreign

**Address Numbers**

Supplier	4343	<i>Parts Emporium</i>
Ship To	4242	<i>Capital System</i>
Buyer	5770717	<i>Schifano, AJ</i>
Carrier		

**Dates**

Order Date	04/29/2024
Requested	05/10/2024
Promised Delivery	
Cancel Date	

**Payment Terms**

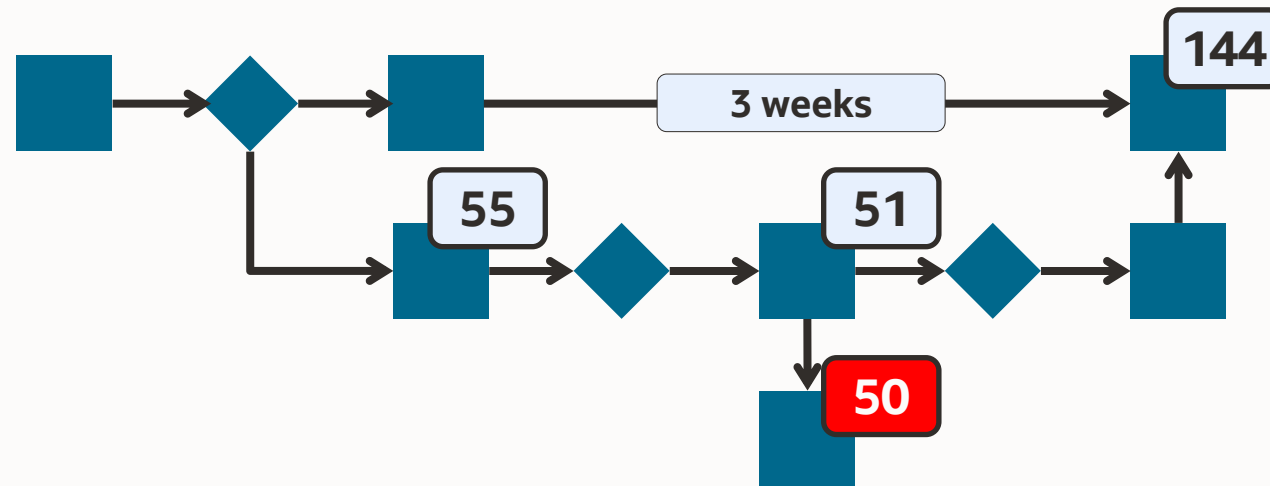
Pmt. Remark	Pay in gold
Description	
Print Message	







Purchase order 1234 created on 5/7/2024  
 144 purchase orders created this month  
 55 purchase orders rejected this month  
 51 purchase orders rejected by supplier 2215  
 50 purchase orders rejected by supplier 2215 on Fridays



# Not just transactions; tasks, too.

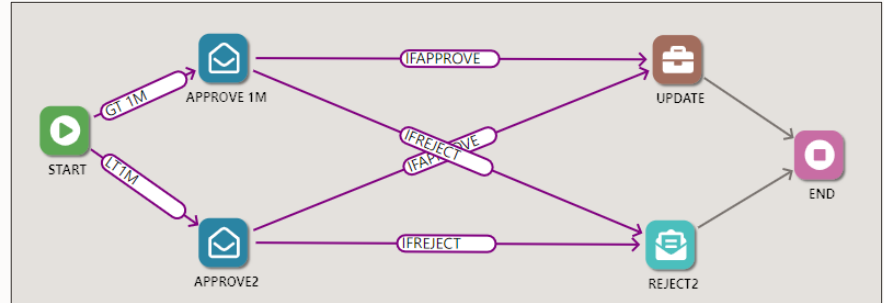
“I completed this task.”  
(And nobody ever knew about it.)



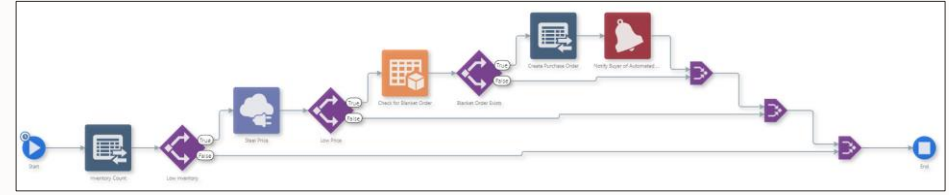
“I completed this task.”

- It was assigned to me on 2022-06-03T21:29:03.
- I completed it on 2022-06-03T22:33:03.
- I completed it in 01:04:22.
- I completed it 17% faster than average.
- This same task was accomplished 447 times this month.
- This task fails 7% of the time.
- This task takes longer than one day 12% of the time.

## Model + Metrics

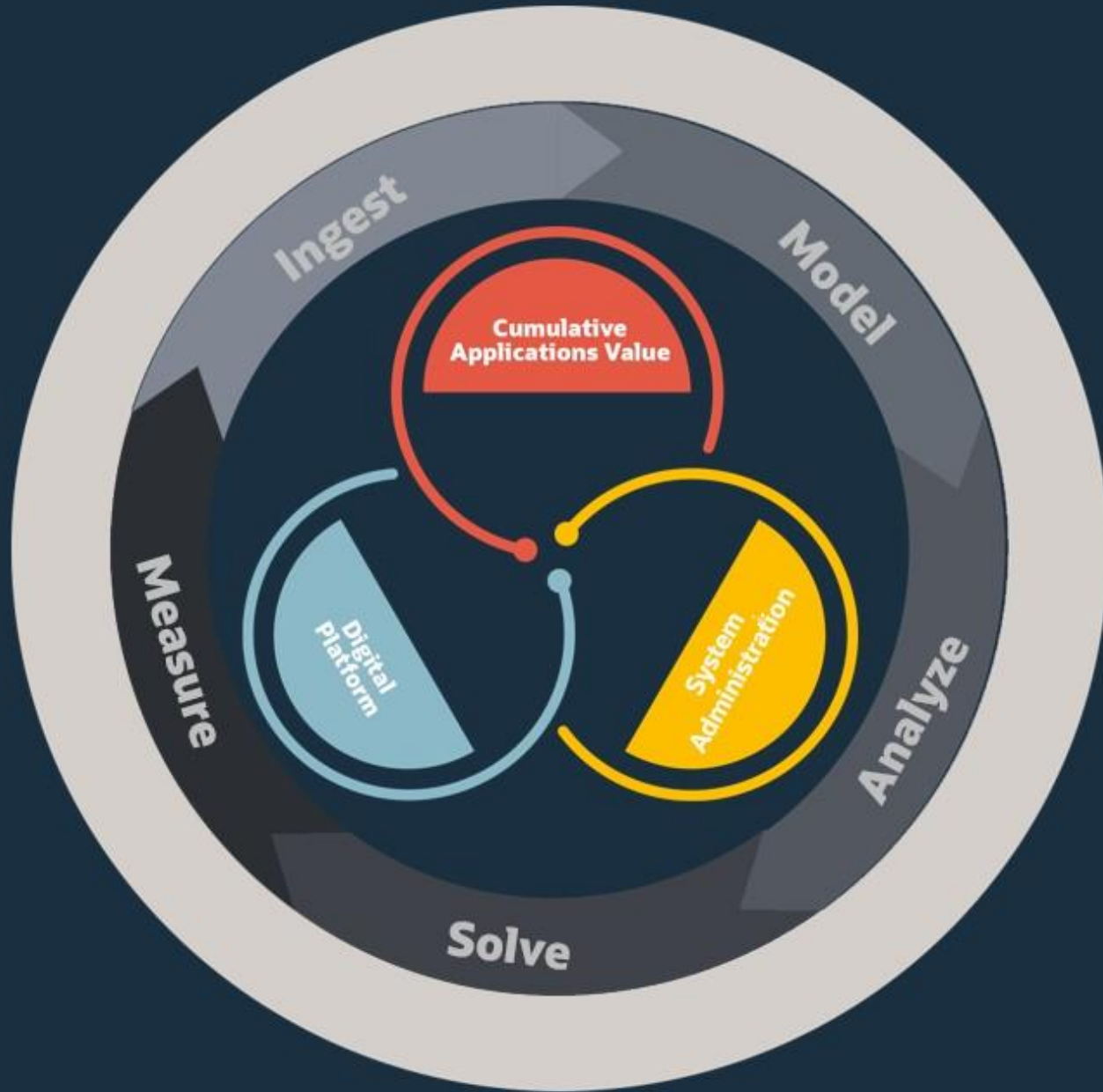


## Workflow



## Orchestration





## 1. Ingest

- Process metadata implies the flow
- Transactional data feeds metrics
- Existing assets:  
History, ledger, audit (21CFR); workflow steps;  
orchestration steps; order activity rules

## 2. Model

- The scope of enterprise automation is broader than process automation
- Human-defined vs system-generated models

## 3. Analyze

- Data + arithmetic + visualization
- Is the process efficient?
- Are the metrics good?

## 4. Solve

- Human ingenuity
- More automation? More training? Better contracts?
- Solve quickly with low-code/no-code agility

## 5. Measure

- Repeat the cycle



You've been amassing gold for years

- Transaction tables
- Ledger tables
- Audit tables
- Workflow history
- ...

**ORACLE**  
JD Edwards  
EnterpriseOne



*Don't underestimate the value of your ERP data*



**Purchase Orders P4310**

**PO Ledger P43041**

**Workflow P98860**

Order Number	Or Ty	Supplier Name
275	OP	Parts Emporium
276	OP	Parts Emporium
277	OP	Parts Emporium
278	OP	Parts Emporium
293	OP	Harvest Supplier
654	OP	Capital System
659	OP	Harvest Supplier
775	OP	Parts Emporium
776	OP	Parts Emporium
776	OP	Parts Emporium
776	OP	Parts Emporium
776	OP	Parts Emporium
776	OP	Parts Emporium
816	OP	00001
818	OP	00001

Description	Resource	Status	Start UTime	End UTime
START	Financial/Distribution Company	Completed	04/11/2024 00:50:58 UTC+00:00	04/11/2024 16:00:59 UTC+00:00
APPROVAL		Approved	04/11/2024 00:50:59 UTC+00:00	04/11/2024 16:00:57 UTC+00:00
RUNREPORT		Completed	04/11/2024 16:00:57 UTC+00:00	04/11/2024 16:00:59 UTC+00:00
APPROVED		Completed	04/11/2024 16:00:59 UTC+00:00	04/11/2024 16:00:59 UTC+00:00
END		Completed	04/11/2024 16:00:59 UTC+00:00	04/11/2024 16:00:59 UTC+00:00
START	Financial/Distribution Company	Error	04/11/2024 16:00:14 UTC+00:00	04/11/2024 16:00:14 UTC+00:00
APPROVAL		Completed	04/11/2024 16:00:14 UTC+00:00	04/11/2024 16:00:14 UTC+00:00
APPROVAL		Error	04/11/2024 16:00:14 UTC+00:00	04/11/2024 16:00:14 UTC+00:00
APPROVAL		Unopened	04/11/2024 16:00:14 UTC+00:00	04/11/2024 16:00:14 UTC+00:00
START	Financial/Distribution Company	Completed	04/11/2024 16:00:25 UTC+00:00	04/11/2024 16:01:25 UTC+00:00
APPROVAL		Approved	04/11/2024 16:00:59 UTC+00:00	04/11/2024 16:01:25 UTC+00:00





**Work with Shipments - Work with Shipments**

Work With Shipments | Additional Selections | Shipment Detail Selections | Selected Shipment Totals

Order Number: \* [ ] \*      Branch/Plant: [ ]

Ship To: [ ]

Sold To: [ ]

Records 1 - 10 > <

<input type="checkbox"/>	<input type="checkbox"/>	Shipment Number	Sts	Status	Ship To Address	Ship To Address	Promised Ship Date
<input type="checkbox"/>	<input type="checkbox"/>	35	10	Pending	4242	Capital System	0
<input type="checkbox"/>	<input type="checkbox"/>	36	10	Pending	4242	Capital System	05
<input type="checkbox"/>	<input type="checkbox"/>	37	10	Pending	4242	Capital System	06
<input type="checkbox"/>	<input type="checkbox"/>	38	10	Pending	4245	Cloud Nine Inc.	06
<input type="checkbox"/>	<input type="checkbox"/>	40	10	Pending	4242	Capital System	06
<input type="checkbox"/>	<input type="checkbox"/>	42	10	Pending	4245	Cloud Nine Inc.	06
<input type="checkbox"/>	<input type="checkbox"/>	43	10	Pending	4247	Coastal Services	06
<input type="checkbox"/>	<input type="checkbox"/>	44	10	Pending	4242	Capital System	06
<input type="checkbox"/>	<input type="checkbox"/>	45	10	Pending	4247	Coastal Services	11
<input type="checkbox"/>	<input type="checkbox"/>	46	10	Pending	4245	Cloud Nine Inc.	

**Select User Define Code**

✓ 🔍 ✕ ⚙️ Form ⚙️ Tools

Records 1 - 12

Code	Description
<input checked="" type="radio"/>	Freight Quote
<input type="radio"/>	05 Quote
<input type="radio"/>	10 Pending
<input type="radio"/>	20 Hold
<input type="radio"/>	25 Approved
<input type="radio"/>	30 Confirmed
<input type="radio"/>	50 ASN Generated
<input type="radio"/>	60 ASN Receipt Acknowledged
<input type="radio"/>	65 POD Required
<input type="radio"/>	70 Shipped/Delivered
<input type="radio"/>	80 Final Freight Updated
<input type="radio"/>	99 Cancelled

We have data that implies a process

Personalization | Layout: (No Layout) | Query: All Records

State	Postal Code	Zone	Ctry	Frnt Hdl	Shipment Weight	Wgt UOM	Scheduled Volume
					400.0000	LB	134
KS	79255			F	525.0000	LB	144
GA	30342		US	F	2.0000	LB	4
CO	80002		US	F	5.0000	LB	24
GA	30342		US	F	340.0000	LB	170
CO	80002		US	F	120.0000	LB	12
CA	94101		US	F	60.0000	LB	38
GA	30342		US	F	550.0000	LB	80
CA	94101		US	F	160.0000	LB	2
CO	80002		US	F	90.6250	LB	3





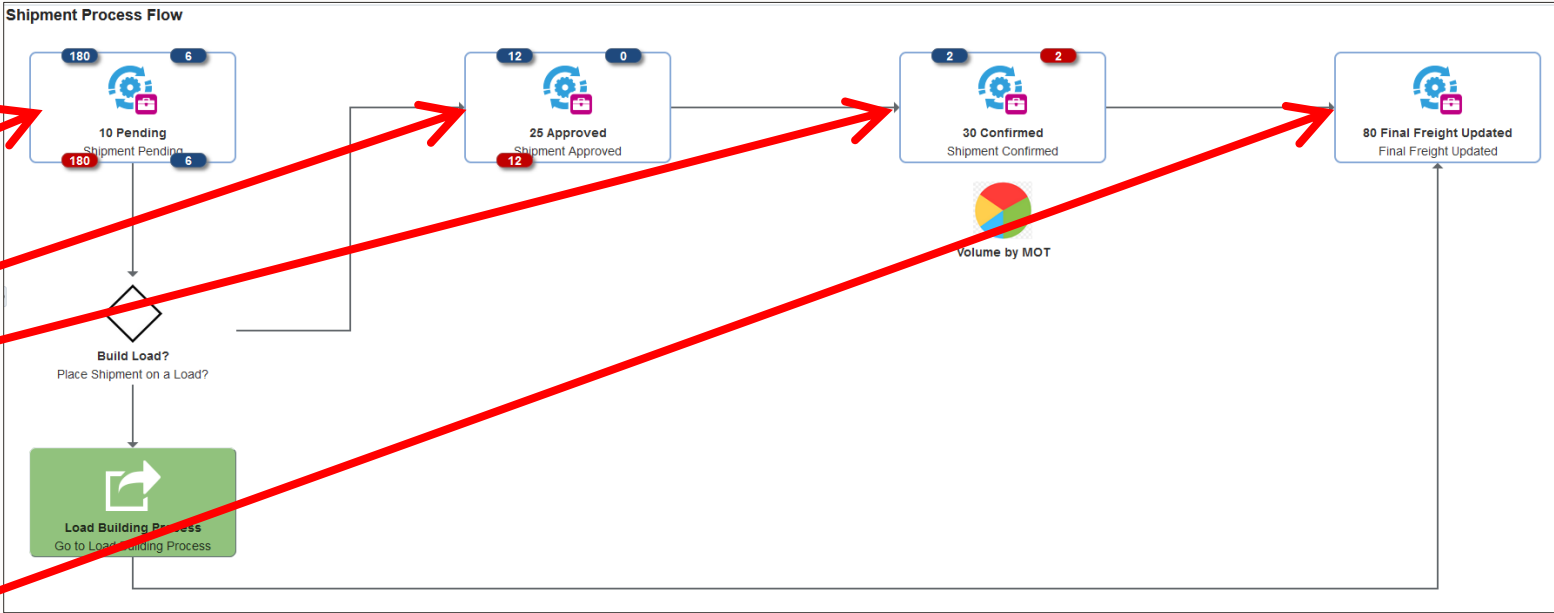
**Ingest** → **Model** → **Analyze** → **Solve** → **Measure**

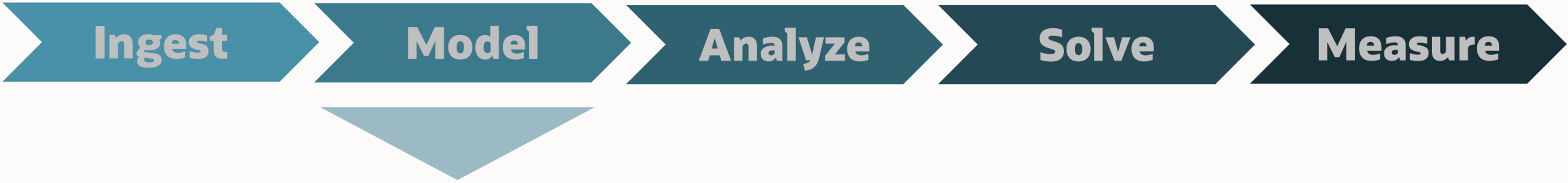
We have data that implies a process, so let's use it to *model* the process.

**Select User Define Code**

Records 1 - 12

Code	Description
<input checked="" type="radio"/>	Freight Quote
<input type="radio"/> 05	Quote
<input type="radio"/> 10	Pending
<input type="radio"/> 20	Hold
<input type="radio"/> 25	Approved
<input type="radio"/> 30	Confirmed
<input type="radio"/> 50	ASN Generated
<input type="radio"/> 60	ASN Receipt Acknowledged
<input type="radio"/> 65	POD Required
<input type="radio"/> 70	Shipped/Delivered
<input type="radio"/> 80	Final Freight Updated
<input type="radio"/> 99	Cancelled





**Order Activity Rules - Work With Order Activity Rules**

✓ 🔍 + 📄 ✕ ⚙️ Form ⌵ Row ⚙️ Tools 🔄 One View

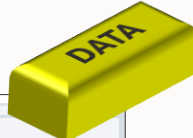
Records 1 - 15

<input type="checkbox"/>	SO	S										
<input type="checkbox"/>	Order Type	Line Type	Last Status	Description	Next Status	Other 1	Other 2	Other 3	Other 4	Other 5	Ledger (Y/N)	
<input type="checkbox"/>	SO	S	520	Enter Sales Order	540	560	535				Y	
<input type="checkbox"/>	SO	S	535	In Warehouse Management	545						Y	

Order Activity Rules also dictate a more formal process

Order Type	Line Type	Last Status	Description	Next Status	Other 1	Other 2
<b>SO</b>	<b>S</b>	<b>520</b>	<b>Enter Sales Order</b>	<b>540</b>	<b>560</b>	<b>535</b>

<input type="checkbox"/>	SO	S	575	Billable Freight	580						Y
<input type="checkbox"/>	SO	S	578	Cycle Billing	580						Y
<input type="checkbox"/>	SO	S	580	Print Invoices	620	600					Y
<input type="checkbox"/>	SO	S	585	Print Interbranch Invoice	620	600					Y
<input type="checkbox"/>	SO	S	600	Invoice Journal	610						Y
<input type="checkbox"/>	SO	S	610	Print G/L Sales Recap-Detail	620						Y
<input type="checkbox"/>	SO	S	620	Sales Update	999						Y
<input type="checkbox"/>	SO	S	999	Complete - Ready to Purge							Y



Ledger (Y/N)
Y
Y
Y
Y
Y

Oh, by the way... start capturing data.



# Ingest

# Model

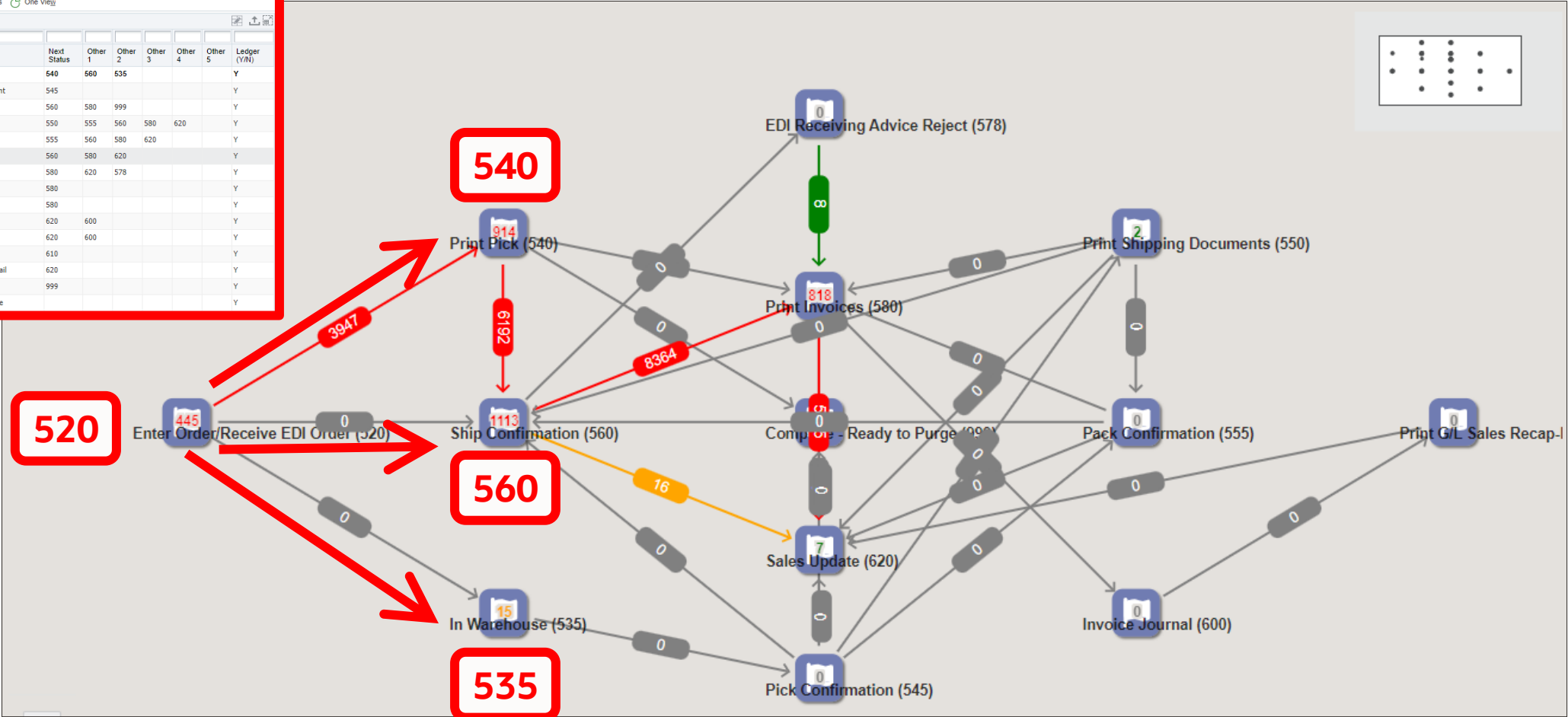
# Analyze

# Solve

# Measure

## Order Activity Rules for Sales Orders: What *could* happen

SO	Line	Last	Description	Next	Other	Other	Other	Other	Other	Ledger
Order Type	Type	Status		Status	1	2	3	4	5	(Y/N)
<input type="checkbox"/>	S	520	Enter Sales Order	640	560	635				Y
<input type="checkbox"/>	S	535	In Warehouse Management	545						Y
<input type="checkbox"/>	S	540	Print Pickalips	560	580	999				Y
<input type="checkbox"/>	S	545	Picking Confirmation	550	555	560	580	620		Y
<input type="checkbox"/>	S	550	Print Shipping Documents	555	560	580	620			Y
<input type="checkbox"/>	S	555	Pack Confirmation	560	580	620				Y
<input type="checkbox"/>	S	560	Shipment Confirmation	580	620	578				Y
<input type="checkbox"/>	S	575	Billable Freight	580						Y
<input type="checkbox"/>	S	578	Cycle Billing	580						Y
<input type="checkbox"/>	S	580	Print Invoices	620	600					Y
<input type="checkbox"/>	S	585	Print Interbranch Invoice	620	600					Y
<input type="checkbox"/>	S	600	Invoice Journal	610						Y
<input type="checkbox"/>	S	610	Print G/L Sales Recap-Detail	620						Y
<input type="checkbox"/>	S	620	Sales Update	999						Y
<input type="checkbox"/>	S	999	Complete - Ready to Purge							Y



Ingest

Model

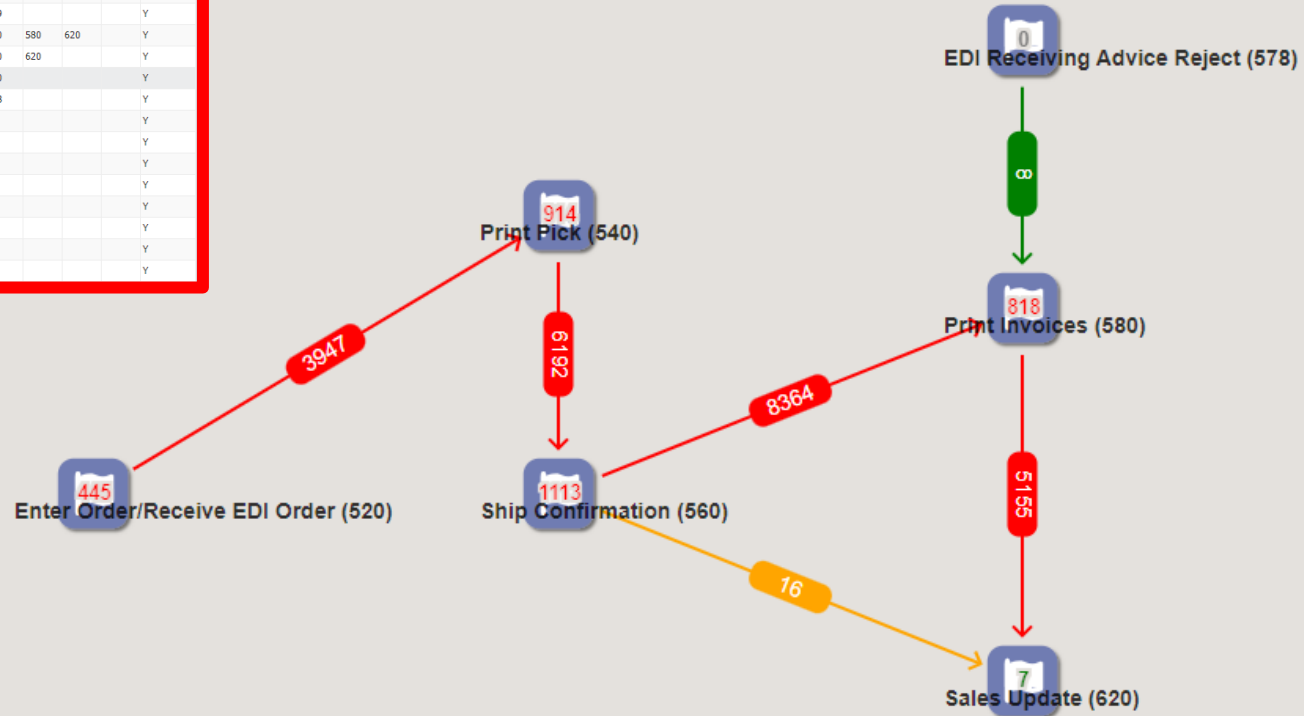
Analyze

Solve

Measure

### Ledger Activity Rules for Sales Orders: What *has* happened

Order Type	Line Type	Last Status	Description	Next Status	Other 1	Other 2	Other 3	Other 4	Other 5	Ledger (Y/N)
<input type="checkbox"/>	SO	S	520	Enter Sales Order	640	660	635			Y
<input type="checkbox"/>	SO	S	535	In Warehouse Management	545					Y
<input type="checkbox"/>	SO	S	540	Print Picklips	560	580	999			Y
<input type="checkbox"/>	SO	S	545	Picking Confirmation	550	555	560	580	620	Y
<input type="checkbox"/>	SO	S	550	Print Shipping Documents	555	560	580	620		Y
<input type="checkbox"/>	SO	S	555	Pack Confirmation	560	580	620			Y
<input type="checkbox"/>	SO	S	560	Shipment Confirmation	580	620	578			Y
<input type="checkbox"/>	SO	S	575	Billable Freight	580					Y
<input type="checkbox"/>	SO	S	578	Cycle Billing	580					Y
<input type="checkbox"/>	SO	S	580	Print Invoices	620	600				Y
<input type="checkbox"/>	SO	S	585	Print Interbranch Invoice	620	600				Y
<input type="checkbox"/>	SO	S	600	Invoice Journal	610					Y
<input type="checkbox"/>	SO	S	610	Print G/L Sales Recap-Detail	620					Y
<input type="checkbox"/>	SO	S	620	Sales Update	999					Y
<input type="checkbox"/>	SO	S	999	Complete - Ready to Purge						Y



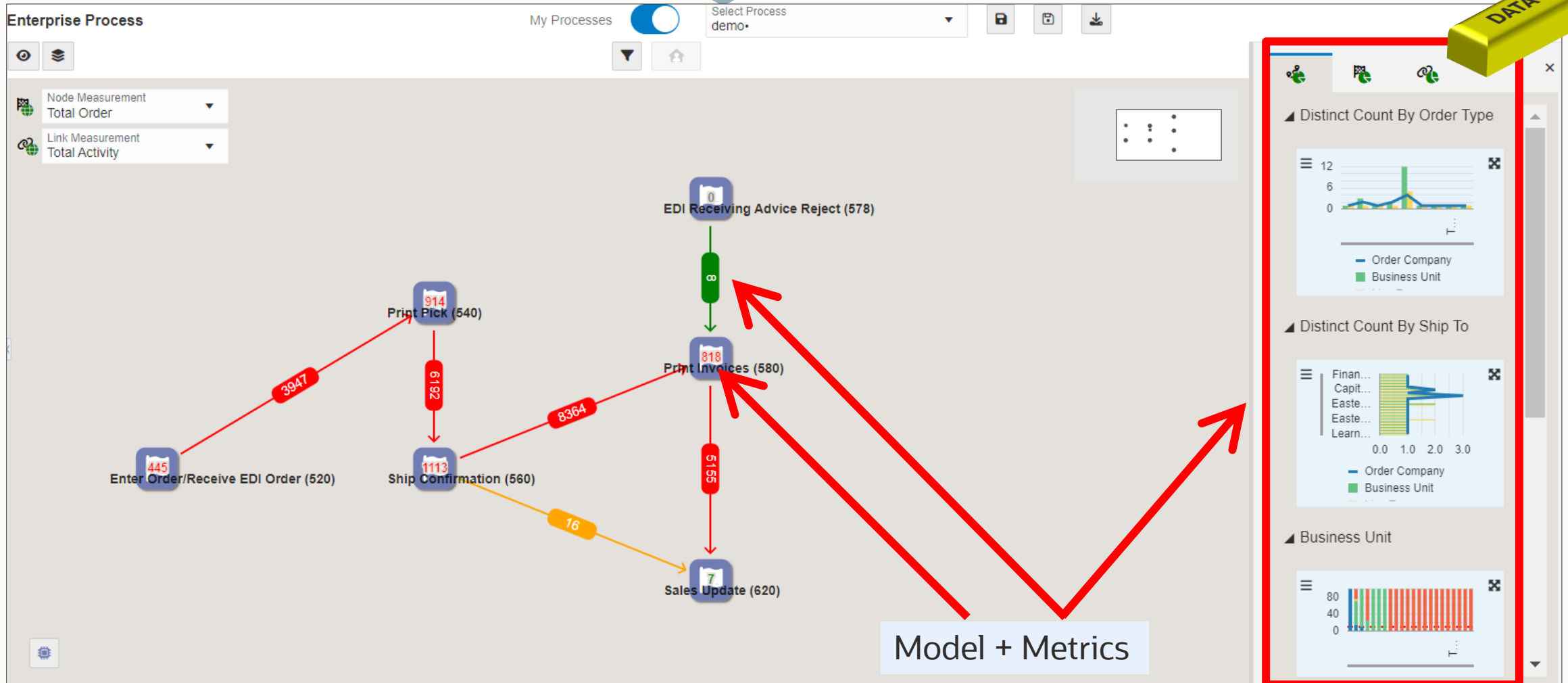
Ingest

Model

Analyze

Solve

Measure





Ingest

Model

Analyze

Solve

Measure

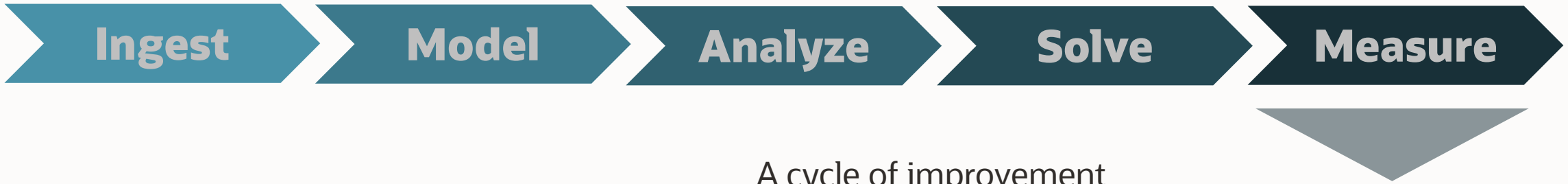


- More automation?
  - Orchestrator
  - Workflow
  - Messages/notifications
- Better training?
  - Oracle Guided Learning
- Simpler user interface?
  - Web apps; mobile apps
- Better supplier contracts?
- Alternative business models?
- ???

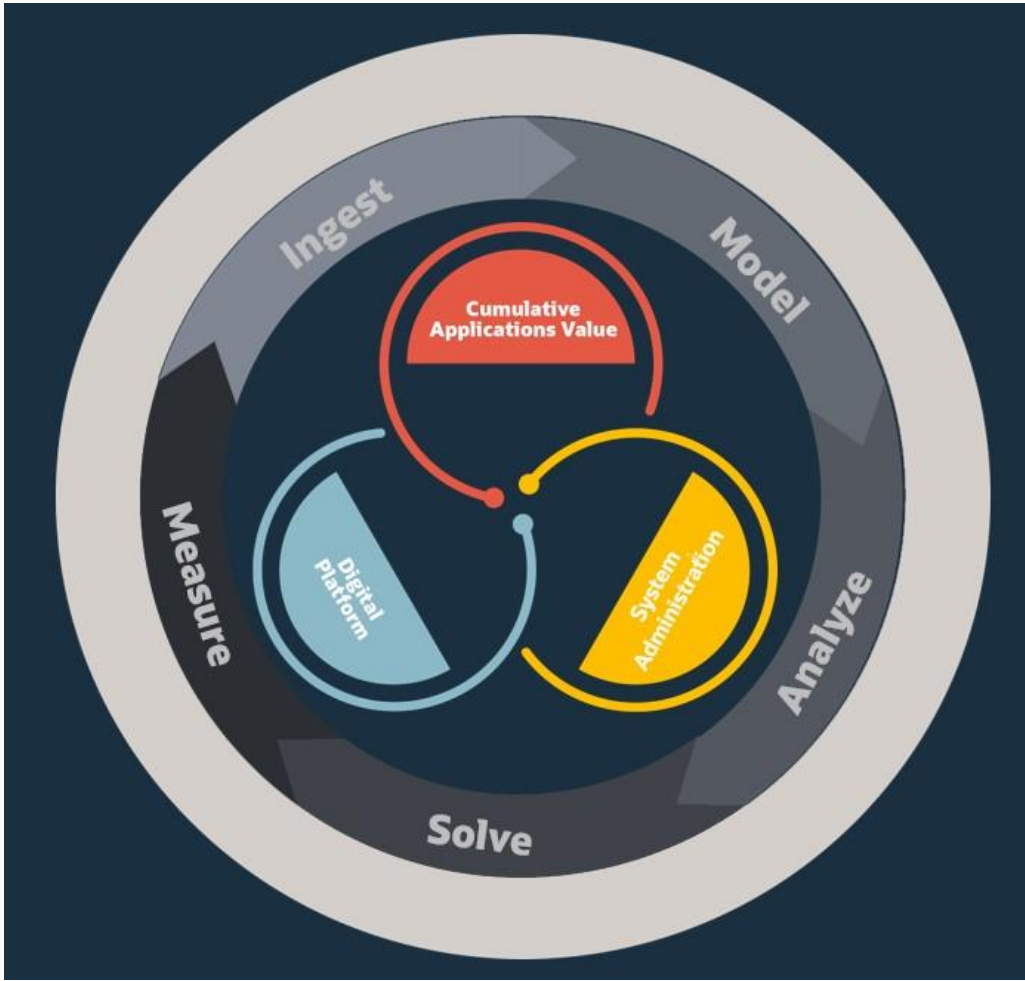
***No Code/Low Code makes the project worth doing***



Faster to develop. Faster into production. Less expensive.



A cycle of improvement



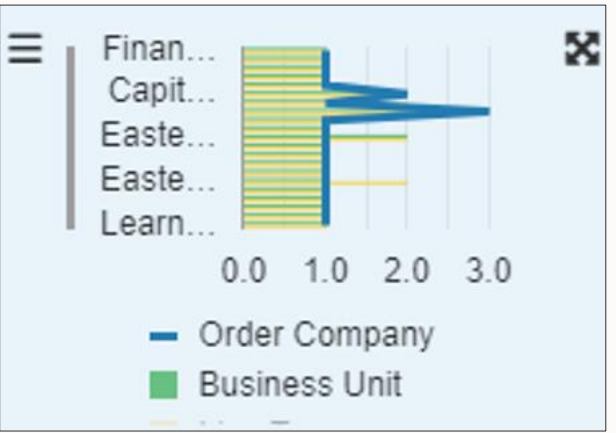
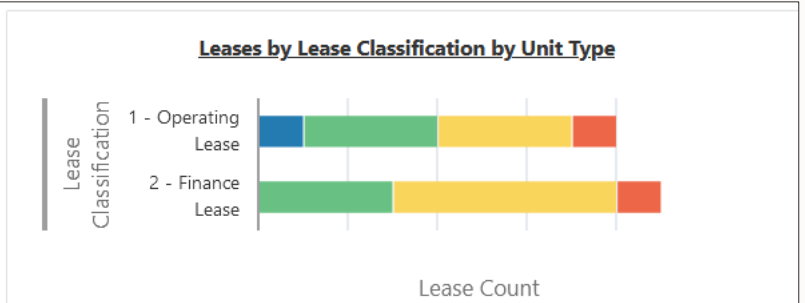
# Ingest

# Model

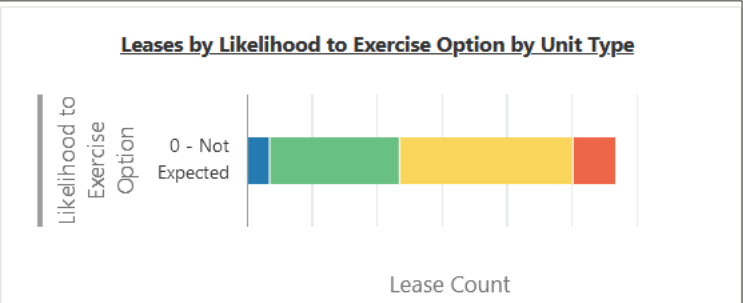
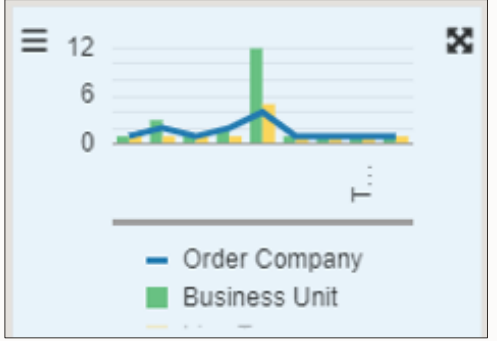
# Analyze

# Solve

# Measure



## 2 Incomplete Lease Terms



# Recent JD Edwards EnterpriseOne Enhancements for Enterprise Automation

## Ingest

## Model

## Analyze

## Solve

## Measure

### Existing

- Transaction tables
- Ledgers
- Audit tables
- Workflow Tables

- EnterpriseOne Pages
- Orchestrator Studio
- Workflow Studio
- Activity Rules

- One View Reporting
- UX One Pages
- Watchlists
- Workflow Process Task Monitor
- Orchestrator Monitor
- REST API Monitor

- Orchestrator & Workflow
- Extensibility Framework, User-defined Objects
- Web Object Management

- One View Reporting
- UX One Role-based Pages
- JET Charts

### Recent

- User-defined Orchestration Monitoring
- Task Tracking

- EA: Req to Receipt
- EA: Ship to Dispatch
- EA: Order to Cash
- Link between E1 Pages

- Workflow Monitor
- Watchlist Badges on EnterpriseOne Page Tiles
- Ascending/Descending Thresholds on WLS

- Notification Reminders
- Prebuilt Workflow Structures
- Promote to Package

- Requisition to Receipt KPIs





# Prebuilt Process Models

## Procure to Pay

- Models: E1 Pages
- Metrics: Watchlists
- Analytics: UX One

The screenshot displays the Oracle JD Edwards Procure to Pay process flow. The main flow consists of the following steps: Orders via EDI (0), Requisitions (3), Requisitions Approval (0), Purchase Order Process (21), Purchase Order Approval (1), Goods Receipt (0), and Voucher Match (12, 4, 1). Below the flow are several analytics dashboards: Requisition Analysis, Approval Processing Analysis, Purchase Order Analysis (circled in red), Approval Processing Analysis, Goods Receipt Analysis, and Voucher Match Analysis. A red box labeled "Watchlist: Reqs on Hold" points to the Requisitions step. A red box labeled "JET Chart: Purchase Order Analysis" points to the Purchase Order Analysis dashboard. A table titled "Work With Order Headers" is also visible, showing order details.

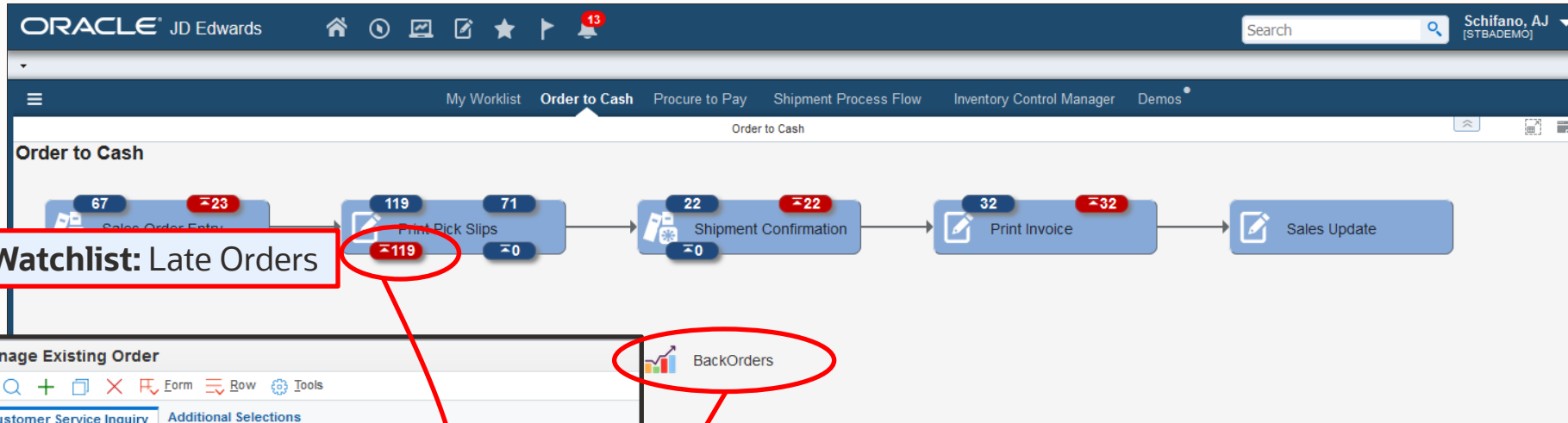
Records 1 - 3	Hd CD	Order Number	Or Ty	Order Co	Supplier Number	Supplier Description	Order Date
<input checked="" type="radio"/>	A1	166 OR	00001	8444	O'Malley, James	2016/09/19	
<input type="radio"/>	A1	167 OR	00001	8444	O'Malley, James	2016/09/19	
<input type="radio"/>	A1	168 OR	00001	8444	O'Malley, James	2016/09/19	



# Prebuilt Process Models

## Order to Cash

- Models: E1 Pages
- Metrics: Watchlists
- Analytics: UX One



**Manage Existing Order**

Customer Service Inquiry | Additional Selections

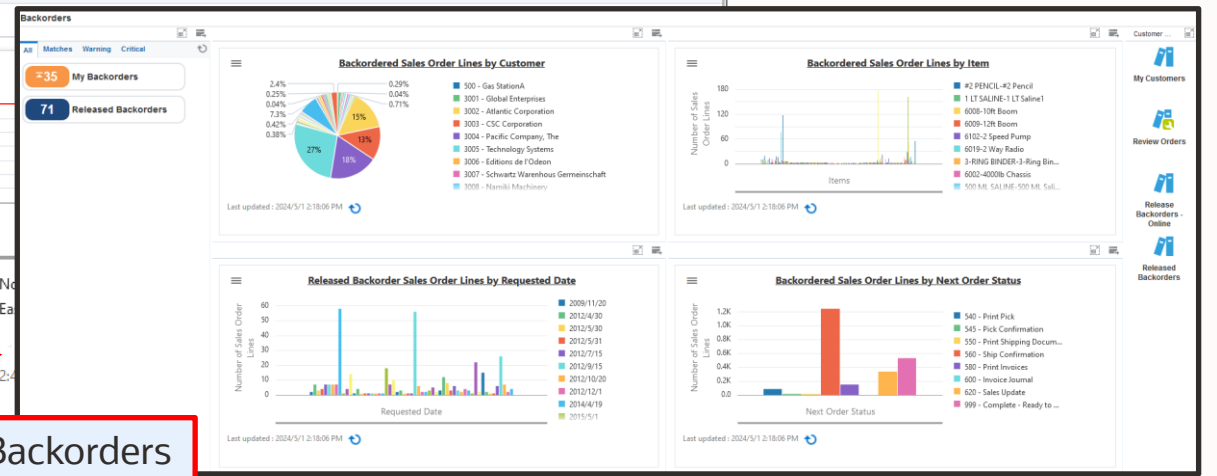
Order Number: SO \*    Item Number:    Customer PO:    Ship To: \*

Find    Print Pick Slip    Credit Check    Shipment Status    Online Invoice

Records 1 - 119

Order Number	Order Type	Order Co	Line Number	Hold Code	Sold To	Sold To Name	2nd Item Number
10094	SO	00001	1.000		4284	Central Distributor	220
10112	SO	00001	1.000		4245	Cloud Nine Inc.	210
10113	SO	00001	1.000		4245	Cloud Nine Inc.	221
10128	SO	00001	1.000		4242	Capital System	1001
10129	SO	00001	1.000		4242	Capital System	221

BackOrders



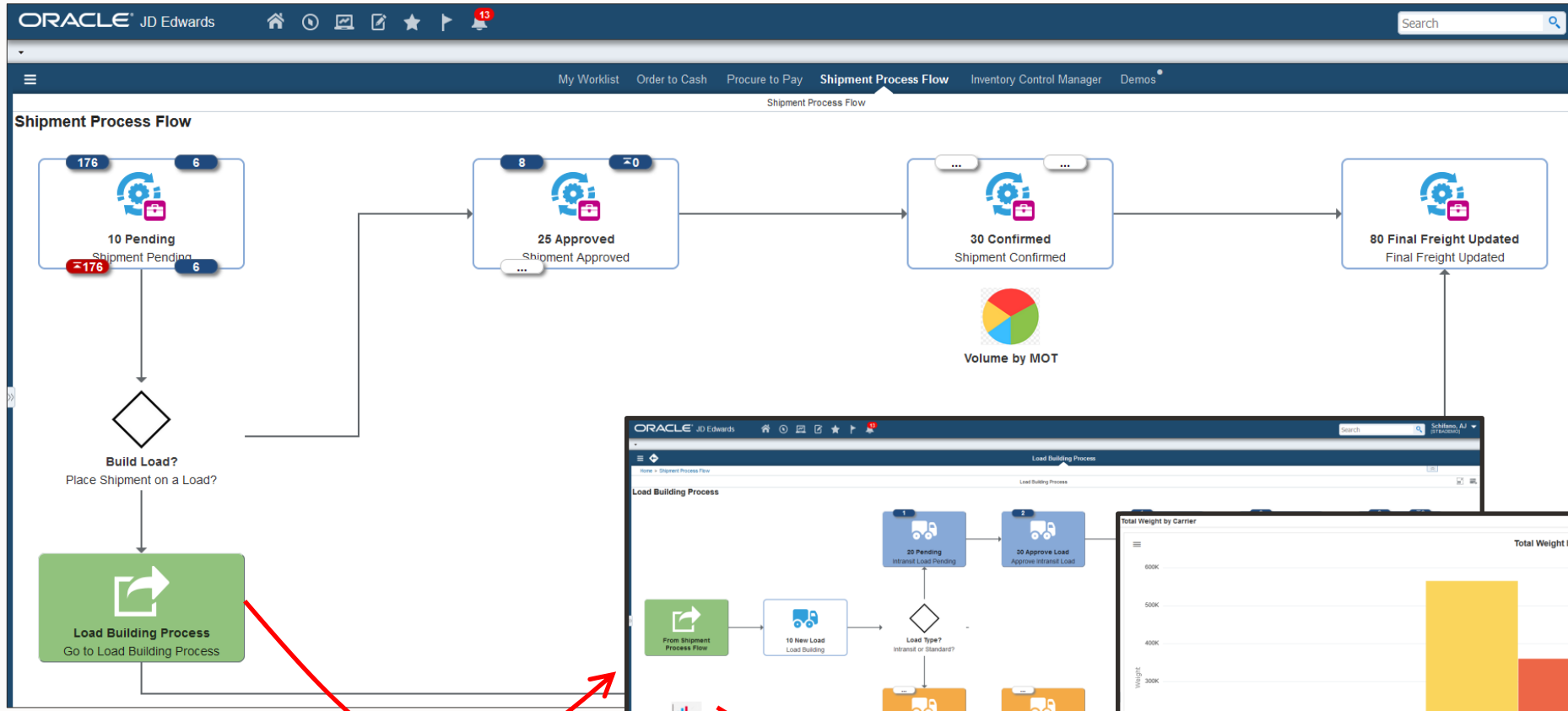
UX One Page: Backorders



# Process Models

## Shipment to Dispatch

- Models: E1 Pages
- Metrics: Watchlists
- Analytics: UX One



Launch to a subprocess

Launch to analytics



# Workflow Monitor

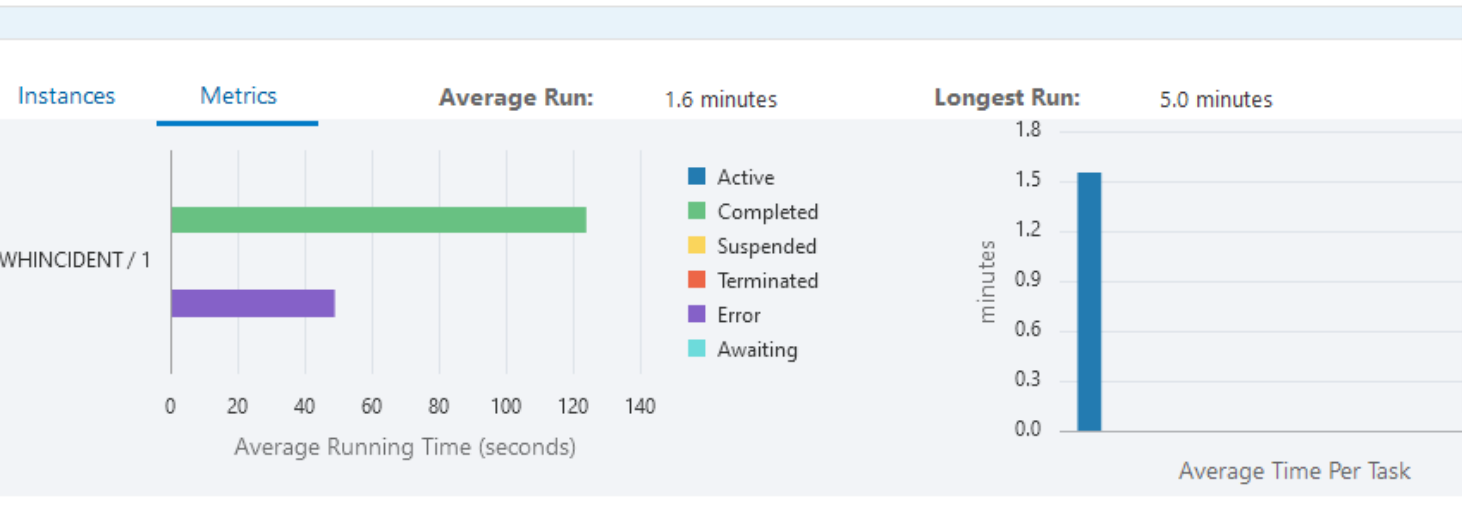
Better visualization of your critical process flows

New Workflow Monitor

Key Data	Originator	Status	Start Time	End Time	Duration
12:32 PM	Willie Warehouse	Completed	09/22/2023 12:31:41	09/22/2023 12:33:22	1.7 minutes

Workflow	Active	Completed	Suspended	Terminated
WHINCIDENT / 1	0	13	0	0



- ✓ Depicts workflow status and metrics
- ✓ Clean, modern look and feel
- ✓ Easy to scan for health and exceptions
- ✓ Continuous assurance



# Task Tracking

Gather metrics about activities other than transactions

**Alert! Warehouse Incident Reported**

Received: 09/19/2023 11:54:08

Warehouse Incident

**Recommended Actions**

Action	Quick Link	Response
Put warehouse location 1 .A . on Hold	Hold Location	Completed Rejected
Initiate the Incident Response Workflow	Start Workflow	Completed Rejected
Submit an Incident Report	Report an Incident	Completed

- **End users** can indicate the status of their tasks
- Orchestrations can update the status of tasks automatically

- **Designers** can turn on task tracking and define statuses

**Task Tracking** Track Task  Track by Subscriber

Description  
Put location on hold

No Due Date  Use Date Rule  Use Date Variable

Due Date Rule \*  
0 Days

Time Due: 11:55 PM Time Zone: America/Denver

Allow Due Date Override

Tracking Link Options  
 No Link  Link to Task Tracking  Link for Each State

Select from Available Tracking States  
 Approved  Closed  Completed  Delayed  
 In Process  Rejected  Sent  Viewed

**Task Tracking - Work With Task Tracking**

View All Tasks  Sent to My Email  Open Tasks  Sort By: Sent Date

Task Description	Task State	Task Closed	Task Sent Date	Task Due Date	Task Last Changed Date	Task Completed Date	Last User	To
Start Incident Workflow	Completed	<input checked="" type="checkbox"/>	09/20/2023 10:23:25 AM UTC-06:00	09/21/2023 10:00:00 AM UTC-06:00	09/20/2023 10:25:19 AM UTC-06:00	09/20/2023 10:25:19 AM UTC-06:00	DEMO	5770717
Put location on hold	Completed	<input checked="" type="checkbox"/>	09/20/2023 10:23:25 AM UTC-06:00	09/20/2023 11:55:00 PM UTC-06:00	09/20/2023 10:24:44 AM UTC-06:00	09/20/2023 10:24:44 AM UTC-06:00	DEMO	5770717
Submit incident report	Rejected	<input checked="" type="checkbox"/>	09/21/2023 10:23:25 AM UTC-06:00	09/21/2023 11:55:00 PM UTC-06:00	09/20/2023 10:26:18 AM UTC-06:00	09/20/2023 10:26:18 AM UTC-06:00	DEMO	5770717
Put location on hold	Sent	<input type="checkbox"/>	09/19/2023 03:50:38 PM UTC-06:00	09/19/2023 11:55:00 PM UTC-06:00	09/19/2023 03:50:38 PM UTC-06:00		DEMO	5770717
Start Incident Workflow	Sent	<input type="checkbox"/>	09/19/2023 03:50:38 PM UTC-06:00	09/20/2023 10:00:00 AM UTC-06:00	09/19/2023 03:50:38 PM UTC-06:00		DEMO	5770717
Submit incident report	Sent	<input type="checkbox"/>	09/19/2023 03:50:37 PM UTC-06:00	09/20/2023 11:55:00 PM UTC-06:00	09/19/2023 03:50:37 PM UTC-06:00		DEMO	5770717
Submit incident report	Rejected	<input checked="" type="checkbox"/>	09/20/2023 01:21:34 PM UTC-06:00	09/20/2023 11:55:00 PM UTC-06:00	09/19/2023 01:23:58 PM UTC-06:00	09/19/2023 01:23:58 PM UTC-06:00	DEMO	5770717
Put location on hold	Completed	<input checked="" type="checkbox"/>	09/19/2023 01:21:34 PM UTC-06:00	09/19/2023 11:55:00 PM UTC-06:00	09/19/2023 01:22:37 PM UTC-06:00	09/19/2023 01:22:37 PM UTC-06:00	DEMO	5770717
Start Incident Workflow	Completed	<input checked="" type="checkbox"/>	09/19/2023 01:21:34 PM UTC-06:00	09/20/2023 10:00:00 AM UTC-06:00	09/19/2023 01:23:12 PM UTC-06:00	09/19/2023 01:23:12 PM UTC-06:00	DEMO	5770717



- Task status is recorded for monitoring and **analysis**





# Enterprise Automation Roadmap

Current and Planned Product Features

## Ingest

## Model

## Analyze

## Solve

## Measure

### Existing

- Transaction tables
- Ledgers
- Audit tables
- Workflow Tables

- EnterpriseOne Pages
- Orchestrator Studio
- Workflow Studio
- Activity Rules

- One View Reporting
- UX One Pages
- Watchlists
- Workflow Process Task Monitor
- Orchestrator Monitor
- REST API Monitor

- Orchestrator & Workflow
- Extensibility Framework, User-defined Objects
- Web Object Management

- One View Reporting
- UX One Role-based Pages
- JET Charts

### Recent

- User-defined Orchestration Monitoring
- Task Tracking

- EA: Req to Receipt
- EA: Ship to Dispatch
- EA: Order to Cash
- Link between E1 Pages

- Workflow Monitor
- Watchlist Badges on EnterpriseOne Page Tiles
- Ascending/Descending Thresholds on WLS

- Notification Reminders
- Prebuilt Workflow Structures
- Promote to Package

- Requisition to Receipt KPIs

### Roadmap

- Add Data Items to a Form
- Analytic tables

- EA: Additional Models
- Enterprise Process Modeler/Model Generator
- Text/Images on Pages

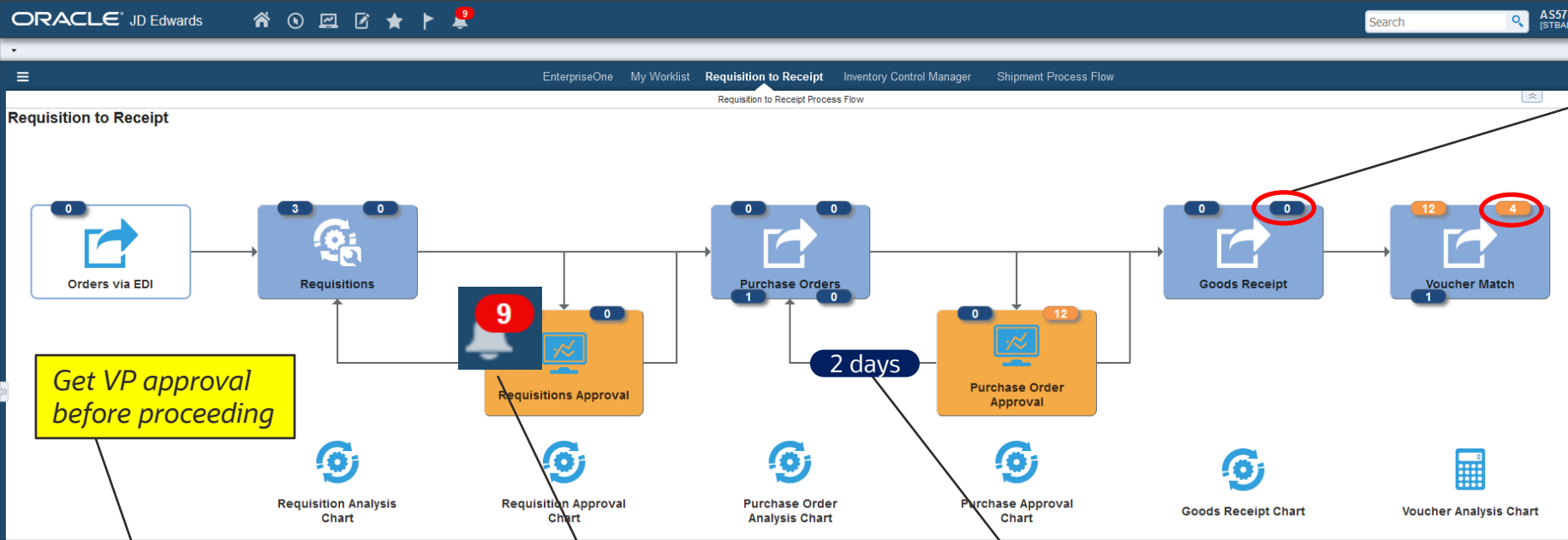
- Watchlists on Connectors
- Notifications on Pages
- Workflow Process View
- EnterpriseOne Widgets
- Comparative Criteria on Queries

- Stateful Orchestrations
- My Tasks
- Rich Formatting of Workflow Messages
- Conditional Launch of Orchestrations

- Enterprise Automation Workbench
- Workflow Status on Forms



# Roadmap: EnterpriseOne Page Enhancements



Watchlists Calculated by Orchestrations or Logic Extensions

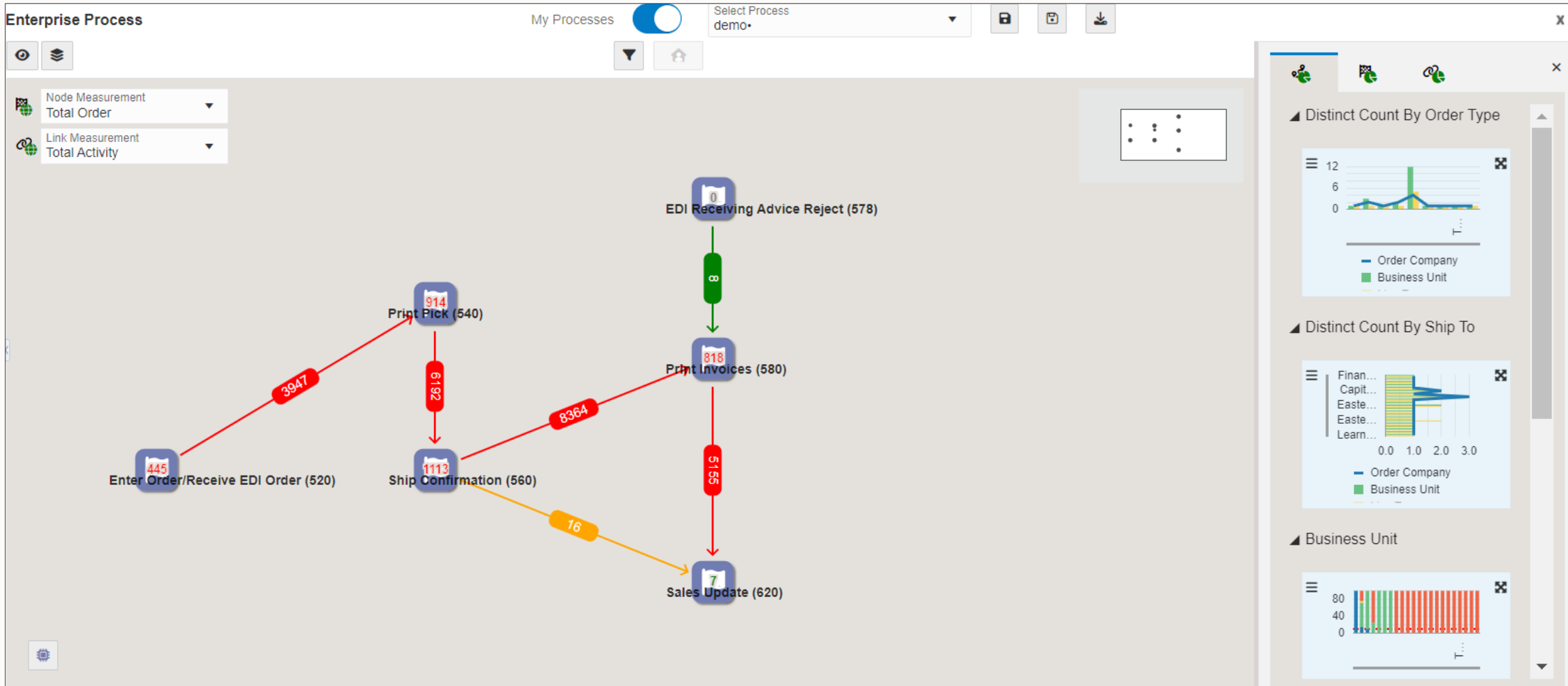
Text and Images

Notification Badges

Metrics on Lines



# Roadmap: Process Modeler



# JD Edwards EnterpriseOne Digital Platform Enhancements

Current and Planned Product Features

# What's New this Year

## 2023-Q3 (9.2.7.4)

Logic Extension Assertions

Purge Utilities and Optimized Loading for Notification List

Map Inputs from a CSV File

User-defined Orchestration Monitoring

## 2023-Q4 (9.2.8.0) Release 24!

Task Tracking

Notification Reminders

Workflow Monitor

Prebuilt Workflow Data Structures

User-defined Delimiter for CSV Output

OSA Output for Report Steps

## 2024-Q1 (9.2.8.1)

Whew! Take a breath. No Orchestrator enhancements.

## 2024-Q2 (9.2.8.2) **New!**

Reorder Data Request & Form Request Outputs

Reorder Orchestration Inputs

More Informational Form Request Exceptions

Authentication for Oracle Cloud Infrastructure Services

REST Connector – Response Status and File without Multipart

My Workflow Monitor

E1 Pages & Form Extensions: Rename Inputs to Orchestration

Variable Maximum Records and Variable Report Queue

## Roadmap

Stateful Orchestration

Data Tables in Messages and Notifications

File Discovery for Orchestrator FTP Connector





# User-defined Orchestration Monitoring

Enhanced capabilities for monitoring orchestrations and steps

## Business Problem:

Orchestrations and notifications provide a powerful and flexible way to automate critical business processes. As such, orchestrations require the same monitoring and logging as any other part of your JD Edwards ERP system. Orchestrator Monitor gives you excellent visibility into the overall health of your orchestrations, as well as detail about any exceptions.

However, depending on the nature and frequency, some orchestrations and notifications might require more fine-grained monitoring as well as a more comprehensive record of all successful transactions in addition to failed orchestrations.

## Solution:

This feature provides enhanced control over which orchestrations and notifications are logged for success and failure, additional logged data, and visualization in Orchestrator Monitor.

## Benefits:

- Log successes and exceptions for orchestrations, steps, iterations, notifications, and AIS REST APIs
- Capture input and output
- Options for controlling what is logged

The screenshot displays the 'Orchestrator Monitor' application. The main window shows a 'Run Details' view with a table of runs. The table has columns for Request Received, Name, Status, Duration (ms), User, Environment, and Product Code. Below the table, there are tabs for 'UDO Name', 'Host Address', and 'Host Name'. A 'Run Options' dialog box is open in the bottom right corner, showing settings for 'Monitoring' (checked), 'Orchestration Details', 'Orchestration Input/Output', 'Step Details', and 'Step Input/Output'. It also includes a 'Monitor on Start' section with a warning icon and a 'Recommended only for long-running processes' note. The 'Environment to Monitor' and 'User/Role to Monitor' sections have checkboxes for 'JDV920' and 'JDE' respectively.

- Log successes and exceptions
- Log step details and iterations
- Options for choosing what is logged

**Be Advised!**  
This feature has the potential to generate a lot of data. Be vigilant. Use wisely.  
F980060, F980061, F980062, F980063



# Prebuilt Workflow Data Structures

Use prebuilt components to get a quick start building workflows

## Business Problem:

EnterpriseOne Workflows can be cumbersome to build because of the requirement to create and deploy data structures, which might require system administration tasks.

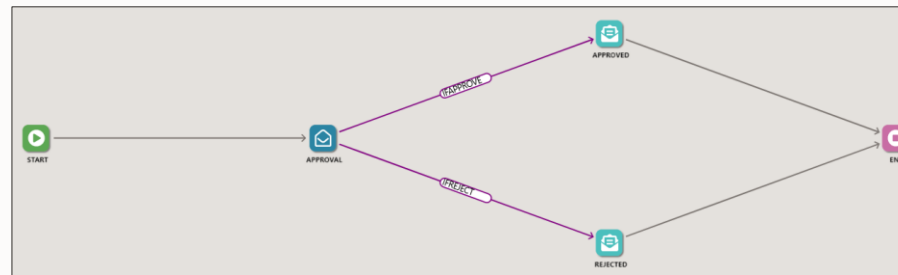
## Solution:

This feature simplifies the process of creating new workflows by providing a set of prebuilt data structures that are suitable for a wide variety of workflows. Instead of creating new data structures for each workflow, designers can simply choose to use these prebuilt data structures and entirely avoid the process of creating and deploying them.

The feature also delivers a generic workflow approval process that designers can copy and modify for their own scenarios, and a generic message template.

## Benefit:

Using these preconfigured components designers can get a quick start on building workflows.



1. Start with the **prebuilt generic approval process**. Modify it (“Save As”) for your purposes.

Workflow: **APPRSAMPLE**

Key Data WFOOKEY		Additional Data WFO0ADD	
* mnAddressNumber	Address N	* cApprovalActionCode	Approval Action Code (APPRACT)
mnUniqueKeyID	Unique Ke	szActivityInstanceUniqueID	Workflow Task Instance Unique ID (AINSTUID)
mnOrderNumber	Document	szOrganizationTypeStructure	Organization Structure Type (OSTP)
szOrderType	Order Type	szNameObject	Object Name (OBNM)
szOrderCompany	Order Con	szString_1	String Value (STRNGVAL)
szOrderSuffix	Order Suff	szString_2	String Value (STRNGVAL)
mnLineNumber	Line Num	szString_3	String Value (STRNGVAL)
		szString_4	String Value (STRNGVAL)
		szString_5	String Value (STRNGVAL)

2. Use the **prebuilt workflow data structures** to define the names, strings, dates, and numbers that your workflow requires. No need to create and deploy new data structures!

Key Data Structure: **WFOOKEY**  
Additional Data Structure: **WFO0ADD**

3. Use the **prebuilt message template** to substitute text strings and create workflow messages.

Message Template: **LM0000**



# Allow Reordering of Data Request and Form Request Grid Outputs

More control over the order of data request and form request outputs, for example, CSV output

## Business Problem:

A key capability of the EnterpriseOne Orchestrator is the ability to fetch data from the EnterpriseOne database and pass that data to subsequent orchestration steps, or as orchestration output. The two primary ways to fetch data sets (arrays) are through a data request or to return grid data through a form request. In most cases the order of the elements returned in the data set is irrelevant; however, in some cases the designer needs to have control over the order in which the elements are returned. Perhaps reordering simply improves human readability of the output, or perhaps, as in the case of output to CSV files, the order of elements is critical.

## Solution:

This feature enhances Orchestrator data requests and form requests with the ability to reorder the elements of arrays returned from these steps. The orchestration designer has more control over the orchestration output, and specifically the order of elements (columns) when output to CSV files.

## Before

Form Request: Return Form Data

ID	Description	Variable
1	Work With Addresses - Grid	GridOut_1_1
19	Address Number	
20	Alpha Name	
49	Industry Class	

CSV Output

```
Address Number,Alpha Name,Industry Class
500,Gas StationA,7000
505,Consignment Agent,5200
700,Gas Station - COP,7000
705,Consignment Agent - COP,5200
```

## After

Form Request: Return Form Data

ID	Description	Variable
1	Work With Addresses - Grid	GridOut_1_1
49	Industry Class	
20	Alpha Name	
19	Address Number	

CSV Output

```
Industry Class,Alpha Name,Address Number
7000,Gas StationA,500
5200,Consignment Agent,505
7000,Gas Station - COP,700
5200,Consignment Agent - COP,705
```

Drag to reorder



# Authentication for Oracle Cloud Infrastructure Services

Use Orchestrator to authenticate to and invoke a wide range of OCI services

## Business Problem:

The EnterpriseOne digital platform, and specifically EnterpriseOne Orchestrator, enable the EnterpriseOne system to participate in process automation, integration, and data exchange with external systems and Cloud services, notably Cloud services offered by Oracle Cloud Infrastructure. Of course those integrations must happen securely.

## Solution:

This feature extends the supported authentication mechanisms that EnterpriseOne Orchestrator can use to invoke external services provided by Oracle Cloud Infrastructure. Specifically, this feature enables the use of Oracle Cloud Infrastructure API Signature Version 1 to authenticate to services such as Oracle Document Understanding.

## New Security option in Connector

The screenshot shows the 'Security' tab in the Oracle Cloud Infrastructure Connector configuration interface. A dropdown menu for 'Security Policy' is highlighted with a red box, showing 'OCI API Key-Based Authentication'. Below this, the 'OCI Configuration File' field contains a sample configuration with fields for user, fingerprint, tenancy, region, and key\_file. The 'Private Key File Name' field is also visible, containing a sample filename 'xxx\_vvv\_zzz.pem'. A dashed box at the bottom indicates a drop zone for the private key file.

**OCI SDK Authentication Methods**

The OCI SDK and CLI supports the following authentication methods:

- API key-based authentication
- Session token-based authentication
- Instance principal
- Resource principal

This section discusses each method in detail and provides examples.

**API Key-Based Authentication**

In this authentication method, you create a configuration file and store it on the local disk. The configuration file contains details such as the user OCID, tenancy OCID, region, private key path, and fingerprint. This authentication method creates a permanent configuration file on your machine. It should be used if you are working from a secure network and are comfortable storing private keys and configuration locally.

**See OCI Documentation:**  
[https://docs.oracle.com/en-us/iaas/Content/API/Concepts/sdk\\_authentication\\_methods.htm](https://docs.oracle.com/en-us/iaas/Content/API/Concepts/sdk_authentication_methods.htm)

- Infrastructure Services
  - Infrastructure Services
    - Service Essentials
    - Access Governance
    - Analytics Cloud
    - Anomaly Detection
    - API Gateway
    - Application Dependency Management
    - Application Performance Monitoring
    - Archive Storage
    - Artifact Registry

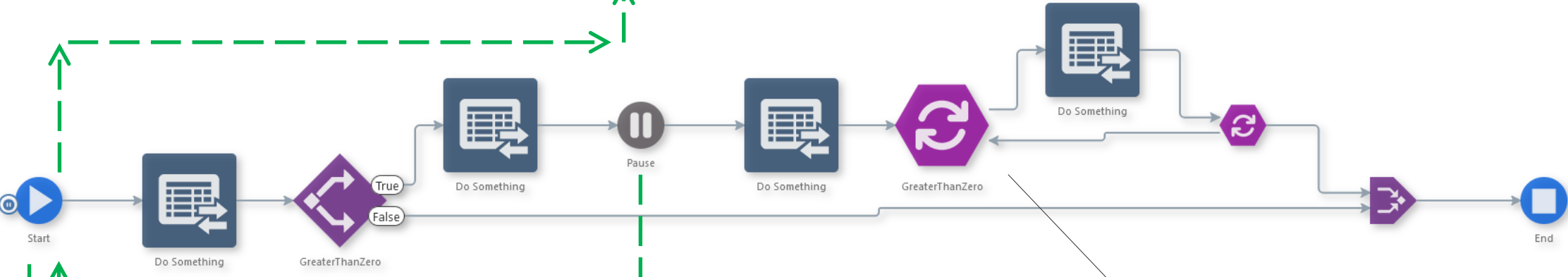
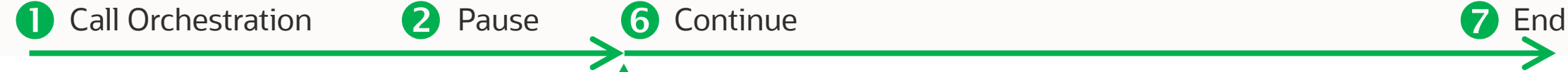
Authenticate to and use (orchestrate) a LONG list of OCI REST APIs



# What's Next?

# Stateful Orchestrations

Long-running processes with intervening (human?) activity



3 Save state

5 Restore state

4 Call same orchestration with instance ID

Instance ID	Step #	Step Name	Start Time	End Time	Duration	Status	Message	Exception	Reason	Instance ID	Environment
1	1	Start	2023-10-26 10:00:00	2023-10-26 10:00:01	00:00:01	SUCCESS				1	DEV
1	2	Do Something	2023-10-26 10:00:02	2023-10-26 10:00:05	00:00:03	SUCCESS				1	DEV
1	3	GreaterThanZero	2023-10-26 10:00:06	2023-10-26 10:00:06	00:00:00	FALSE				1	DEV
1	4	Do Something	2023-10-26 10:00:07	2023-10-26 10:00:10	00:00:03	SUCCESS				1	DEV
1	5	Pause	2023-10-26 10:00:11	2023-10-26 10:00:15	00:00:04	PENDING				1	DEV
1	6	Continue	2023-10-26 10:00:16	2023-10-26 10:00:16	00:00:00	SUCCESS				1	DEV
1	7	Do Something	2023-10-26 10:00:17	2023-10-26 10:00:20	00:00:03	SUCCESS				1	DEV
1	8	GreaterThanZero	2023-10-26 10:00:21	2023-10-26 10:00:21	00:00:00	TRUE				1	DEV
1	9	Do Something	2023-10-26 10:00:22	2023-10-26 10:00:25	00:00:03	SUCCESS				1	DEV
1	10	End	2023-10-26 10:00:26	2023-10-26 10:00:26	00:00:00	SUCCESS				1	DEV



Bonus! While loop iterate while evaluating a changing condition

New Application



# Data Tables in Messages and Notifications

Automatically generate a table from an array


Records 1 - 14

Order Number	Line Number	Ln Ty	Sold To	Sold To Name	Quantity	2nd Item Number	Description 1	Unit Price
15356	1.000	S	4243	Custom Brokers ä	3	210	Mountain Bike, Red	798.0000
15356	2.000	S	4243	Custom Brokers ä	4	220	Touring Bike, Red	650.0000
15356	3.000	S	4243	Custom Brokers ä	5	230	Youth Sport Bike	145.0000
15355	1.000	S	4243	Custom Brokers ä	1	210	Mountain Bike, Red	798.0000

EnterpriseOne  
Source Data

Message to recipient:

Daily Sales Order Report for 5/2/2024



 aj.schifano@oracle.com  
To: Anthony Schifano

[If there are problems with how this message is displayed, click here to view it in a web browser.](#)

Here is the report of sales orders for today:

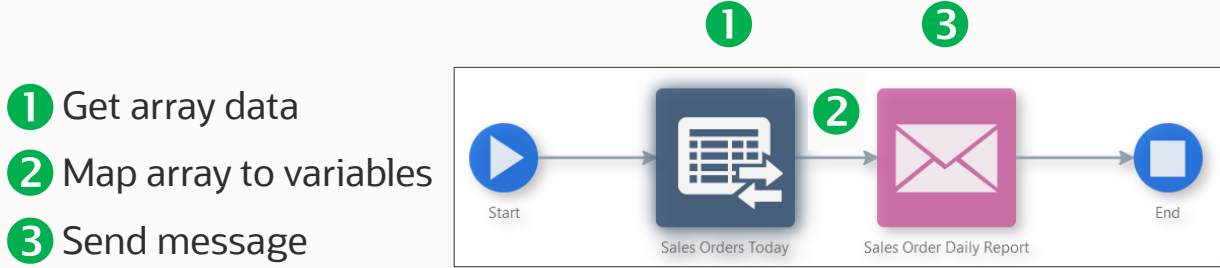
Order Number	Line Number	Line Type	Sold To	Sold To Name	Quantity	Item Number	Description	Unit Price
15353	1	S	4243	Custom Brokers ä	5	2001	Cro-Moly Frame, Red	250
15353	2	S	4243	Custom Brokers ä	1	220	Touring Bike, Red	650
15353	3	S	4243	Custom Brokers ä	2	210	Mountain Bike, Red	798
15353	4	S	4243	Custom Brokers ä	1	2001	Cro-Moly Frame, Red	250
15354	1	S	4243	Custom Brokers ä	1	210	Mountain Bike, Red	798
15354	2	S	4243	Custom Brokers ä	3	2001	Cro-Moly Frame, Red	250
15354	3	S	4243	Custom Brokers ä	2	220	Touring Bike, Red	650
15355	1	S	4243	Custom Brokers ä	1	210	Mountain Bike, Red	798
15355	2	S	4243	Custom Brokers ä	3	220	Touring Bike, Red	650
15355	3	S	4243	Custom Brokers ä	2	230	Youth Sport Bike	145
15356	1	S	4243	Custom Brokers ä	3	210	Mountain Bike, Red	798

Edit Data Table - Sales Orders

Choose heading | **B** | *I* | U | ~~S~~ | x<sub>2</sub> | x<sup>2</sup> | T<sub>x</sub> | @ | := | ½ | := |  | 

Order Number	Line Number	Line Type	Sold To	Sold To Name	Quantity	Item Number	Description	U
\${order_number}	\${line_number}	\${line_type}	\${sold_to}	\${sold_to_name}	\${quantity}	\${item number}	\${description}	\$

Orchestrator Studio: Set up a table with column variables in a message or notification



Array values are substituted into the table at runtime





# File Discovery for Orchestrator FTP Connector

Discover information about an FTP directory; use it in a subsequent FTP step

New option on Connector step

**Connector**

Name: **Get FTP Directory Information**

Description: Get FTP Directory Information

FTP: FTP\_PUBLIC - FTP\_PUBLIC

Report  File  **Directory Contents**

Path Extension: Demo

Data Set Variable Name: FTP Information

**Attributes**

- Name
- Type
- Date
- Length
- Path
- Absolute Path
- Is Directory
- Is File
- Is Link

FTP files:

/host1234/mysite/FTP\_PUBLIC/Demo/

Name
..
Sales Order 2024-05-06-4243-1.csv
Sales Order 2024-05-06-4243-2.csv
Sales Order 2024-05-06-4243-3.csv
Sales Order 2024-05-06-4243-4.csv

Returns information about directories and files at an FTP location

```
Output Status: OK (200) Time: 0.123 Seconds
{
  "FTP Information": [
    {
      "name": "Sales Order 2024-05-06-4243-1.csv",
      "length": "105",
      "absolutePath": "./FTP_PUBLIC/Demo/Sales Order 2024-05-06-4243-1.csv",
      "directory": "false"
    },
    {
      "name": "Sales Order 2024-05-06-4243-3.csv",
      "length": "127",
      "absolutePath": "./FTP_PUBLIC/Demo/Sales Order 2024-05-06-4243-3.csv",
      "directory": "false"
    },
    {
      "name": "Sales Order 2024-05-06-4243-4.csv",
      "length": "104",
      "absolutePath": "./FTP_PUBLIC/Demo/Sales Order 2024-05-06-4243-4.csv",
      "directory": "false"
    }
  ]
}
```

```
{
  "FTP Information": [
    {
      "name": "Sales Order 2024-05-06-4243-1.csv",
      "length": "105",
      "absolutePath": "./FTP_PUBLIC/Demo/Sales Order 2024-05-06-4243-1.csv",
      "directory": "false"
    },
  ],
}
```



# What's the point?

# Enterprise ~~Process~~ Automation

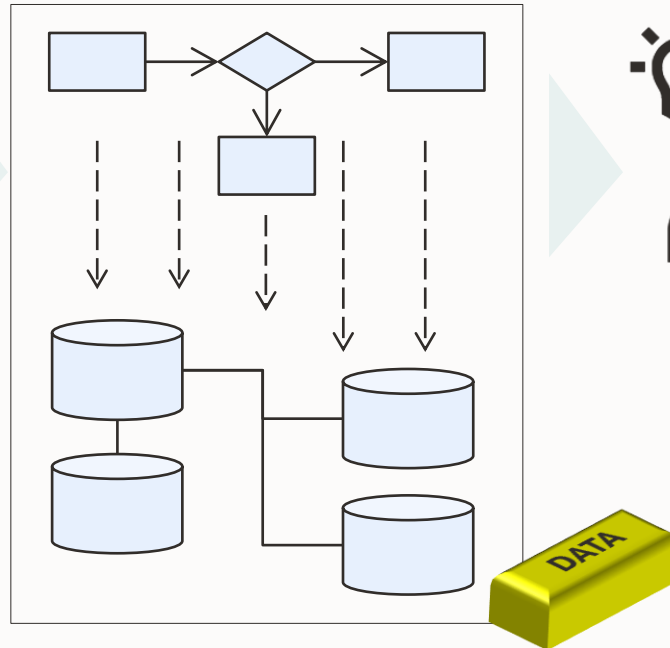
Improve enterprise-wide operations through integrated automation and the data it generates

- Expand the focus from individual transactions to your business as a whole
- Make better use of the data you already have to reveal “blind spots”
- Easily define the processes and data you need for better visibility

Automation is pervasive throughout the enterprise



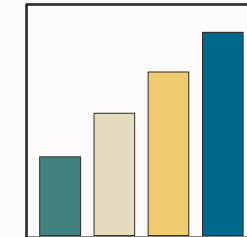
Automation generates insightful data...



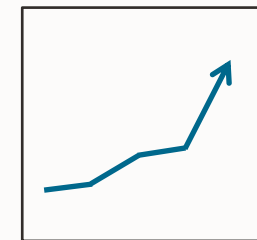
...which leads to innovation...



...and continuous improvement



- Operational Metrics:
- Profit
  - Customer Satisfaction
  - Delivery time
  - ...



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My Oracle Support



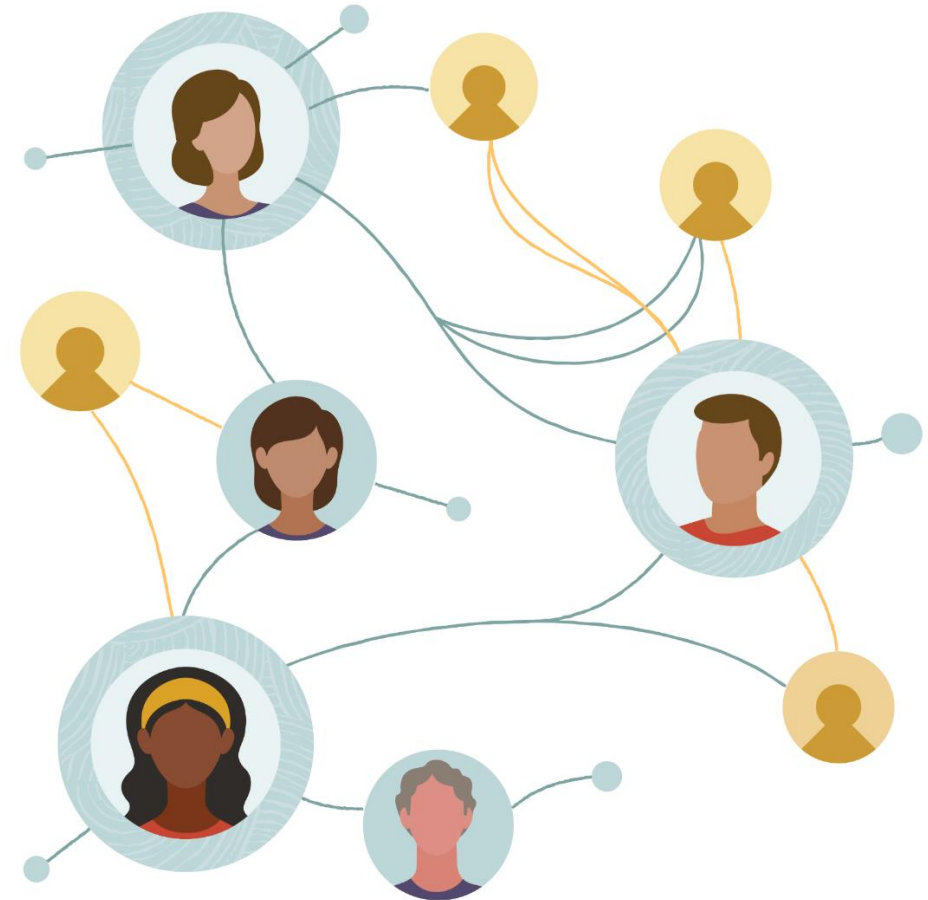
Quest Oracle Community



LearnJDE



The JDE Connection





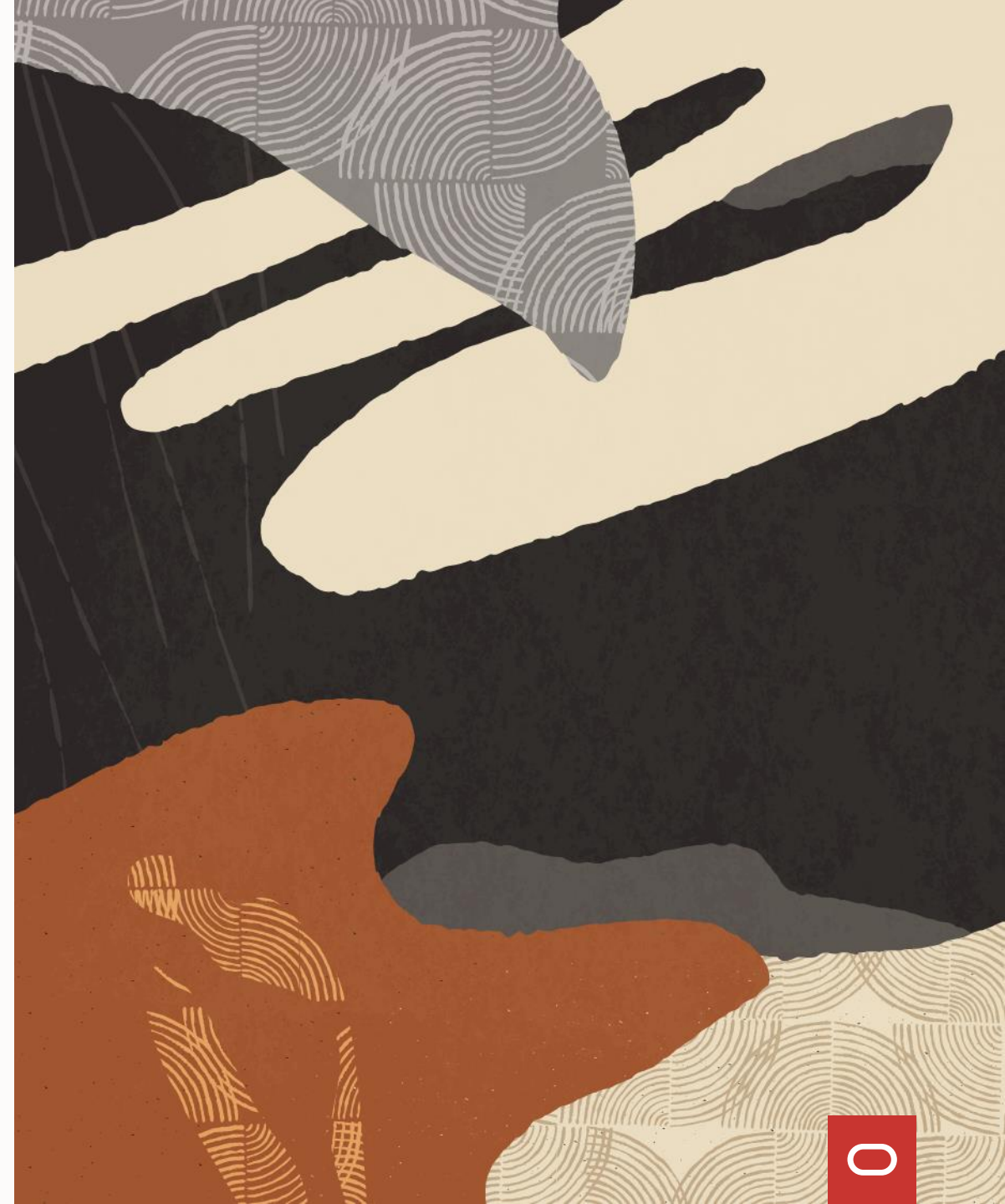
# Thank you

**AJ Schifano**

Product Manager

Oracle JD Edwards

[aj.schifano@oracle.com](mailto:aj.schifano@oracle.com)



ORACLE