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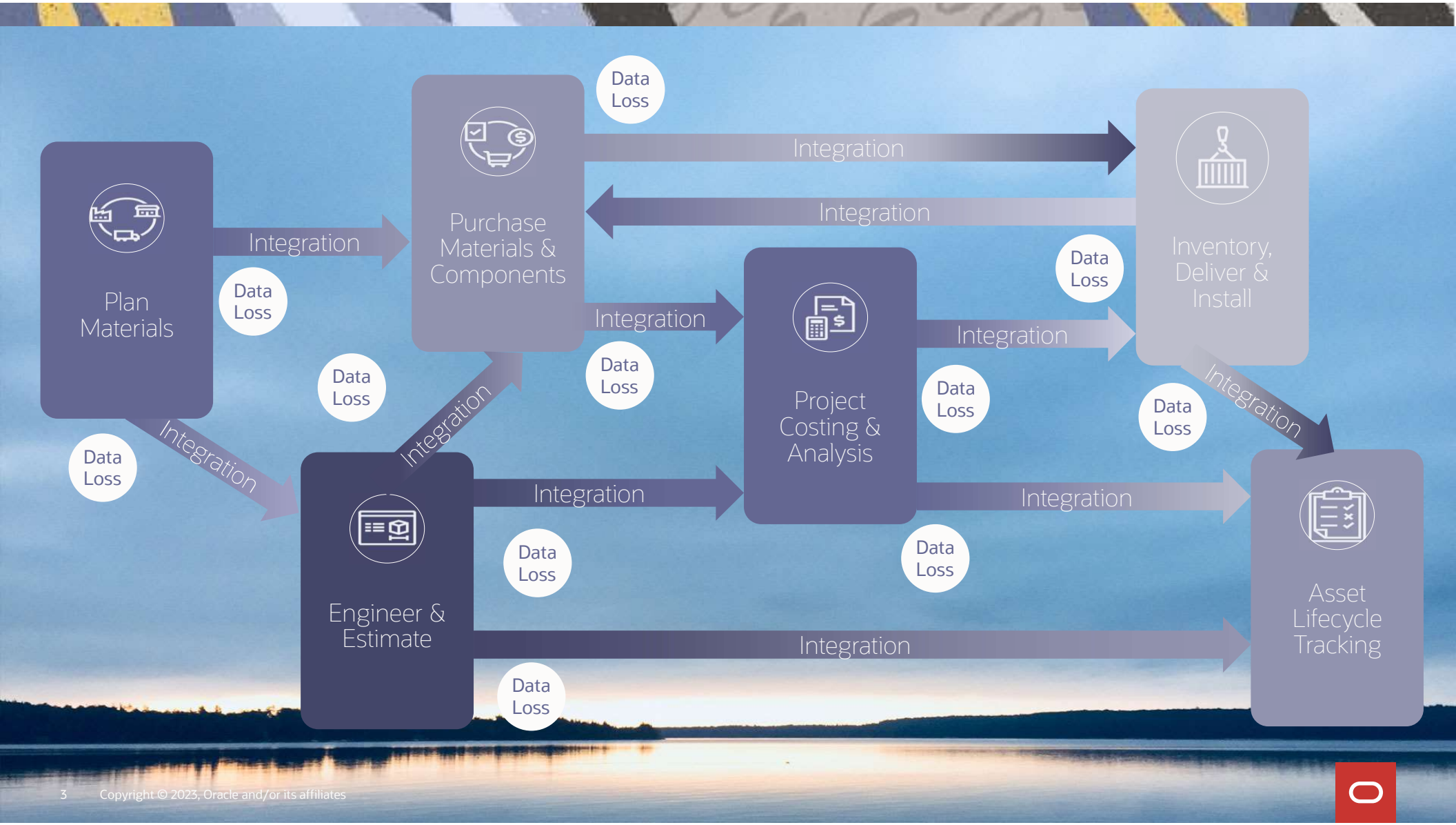
Managing an Optimal Supply Chain for Capital Projects

Joel Sandberg
Master Principal Solution Engineer

June 28, 2022



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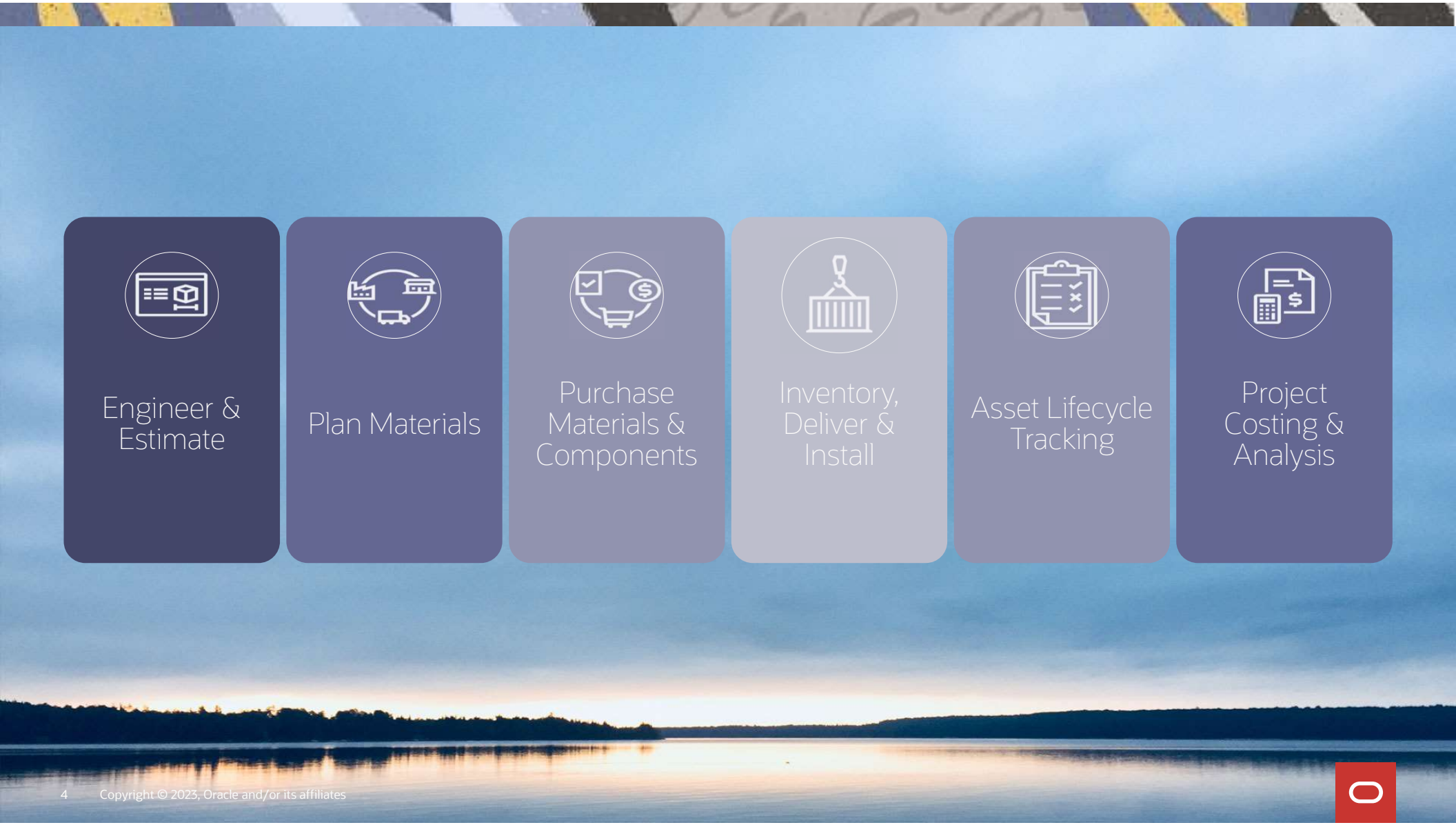

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Project Driven Supply Chain for Utilities

End to-End, Unified Cloud Solution for Asset Intensive Industries

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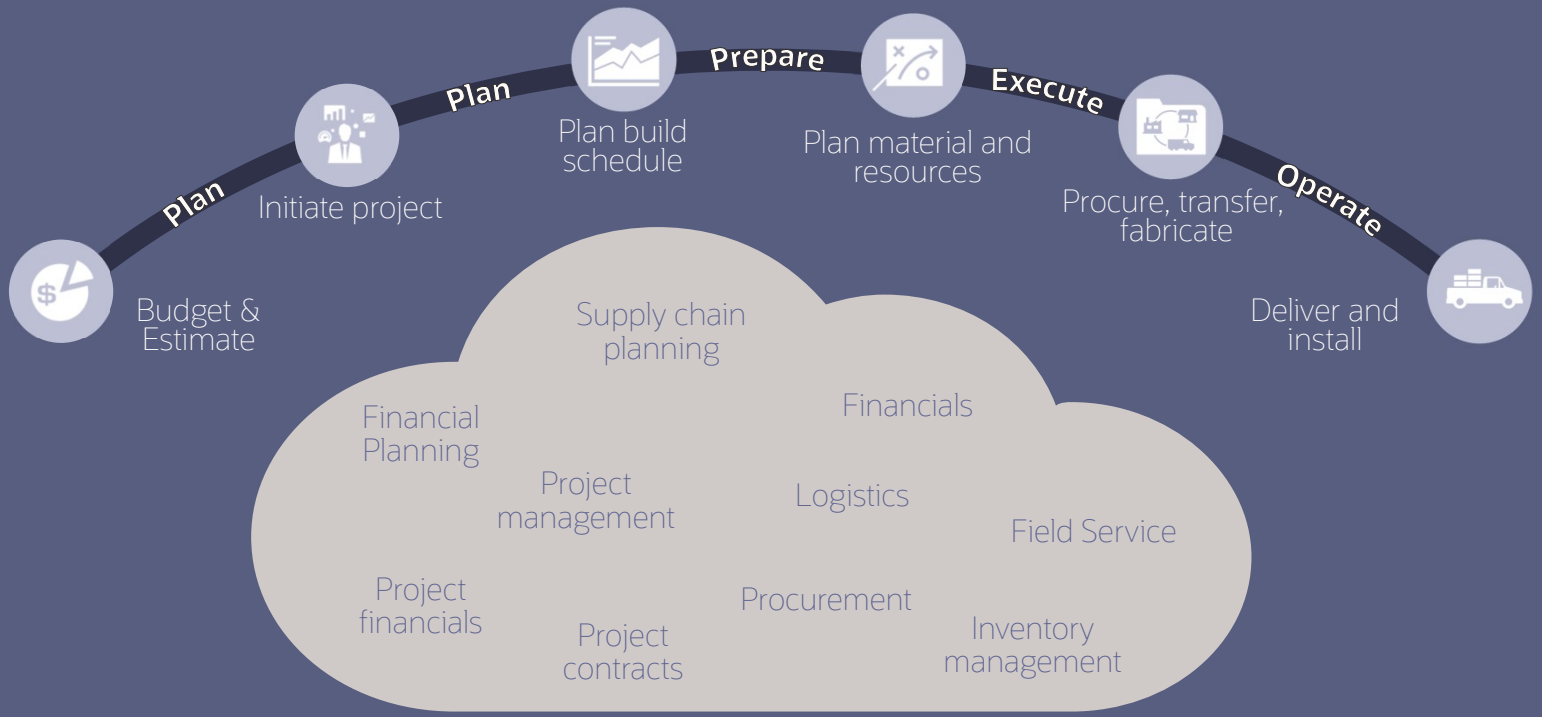
Project-Driven Supply Chain

Integrated plan-to-commission solution for constructing assets



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Why Project Driven Supply Chain for Utilities?

- Asset Costing
- Nimbleness
- Joint Venture Management
- FERC Compliance

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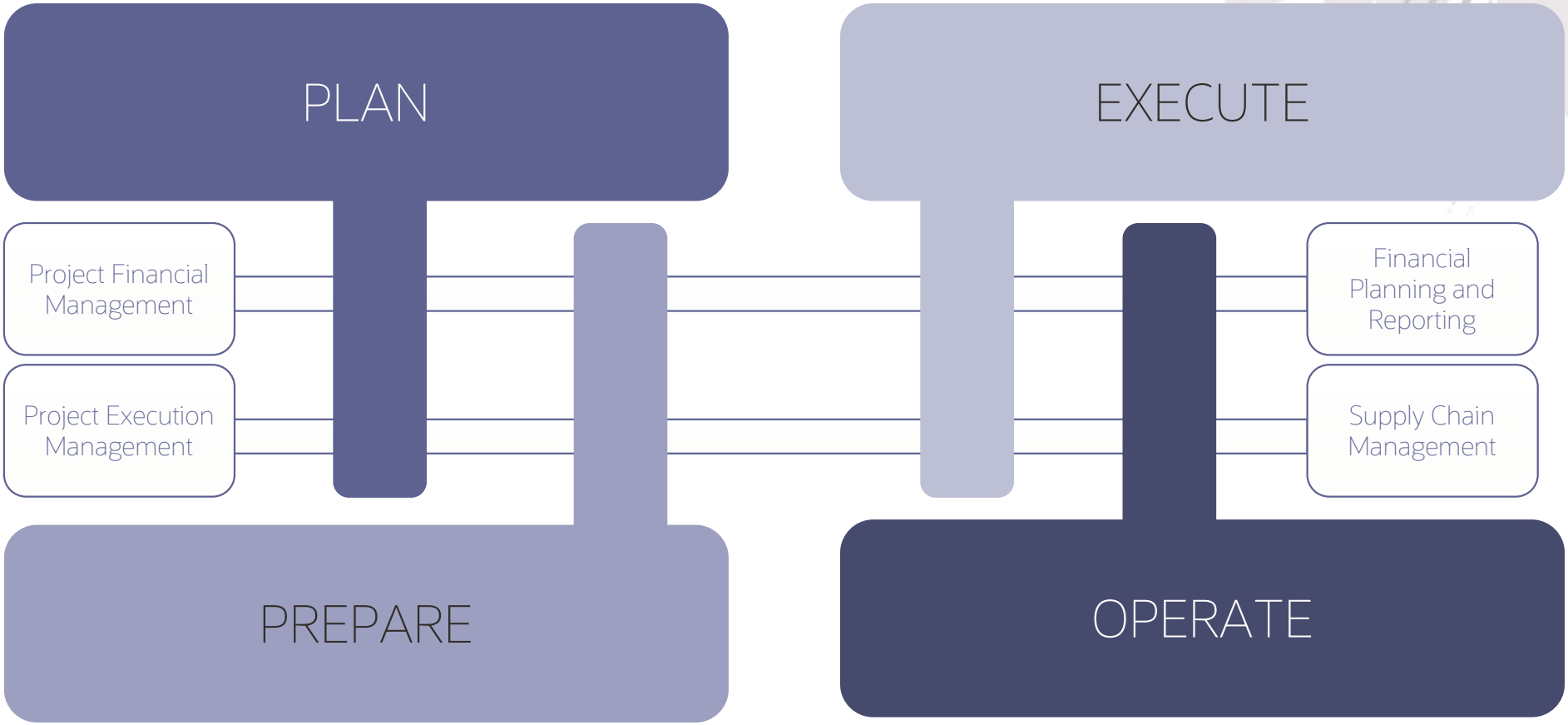
Oracle Cloud connects project planning and execution



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Invest in the Right Ideas

- Capture project ideas
- Document project requirements
- Convert requirements into design concepts
- Configure processes and analytics
- Prioritize & Justify capital expenditures

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Structure & Formalize Decision-Making

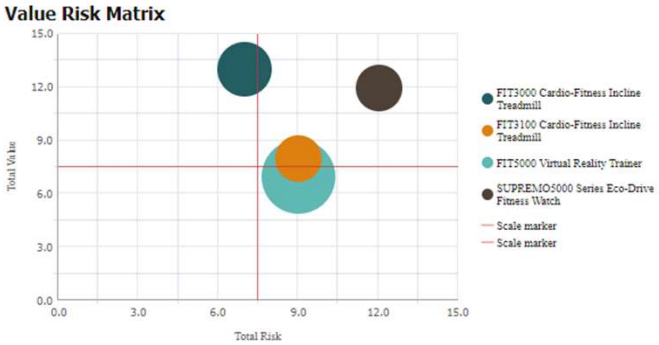
Proposal Name
--Select Value--

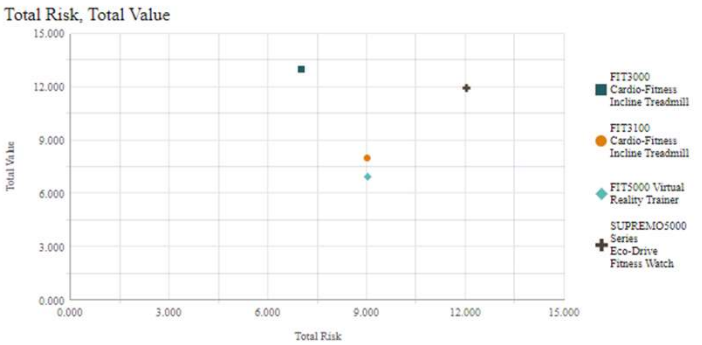
Region
--Select Value--

Country
--Select Value--

Timing
--Select Value--

Apply Reset





Total Value	Total Risk	Portfolio	Proposal Name	Technical Feasability	Direct Payback	Business Feasability	Strategic Alignment	Resource Alignment	Profitability	Net Present Value	Proposal Projected Cost	Proposal Projected Revenue
7	9	Fitness Portfolio	FIT5000 Virtual Reality Trainer							349,567,174.75	671,000,000	4,411,321,200
8	9	Fitness Portfolio	FIT3100 Cardio-Fitness Incline Treadmill							109,218,665.66	1,015,000,000	1,782,995,200
12	12	Fitness Portfolio	SUPREMO5000 Series Eco-Drive Fitness Watch							197,110,948.48	399,000,000	1,764,000,000
13	7	Fitness Portfolio	FIT3000 Cardio-Fitness Incline Treadmill							228,029,307.96	536,000,000	2,357,708,800

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Implement Designs

- Ensure Data Integrity
  - Single source of truth
  - Workflows to assure business processes
  - Data quality assurance rules
  - Hub and spoke ingestion and publication of items
- Simplify transition from engineering to delivery

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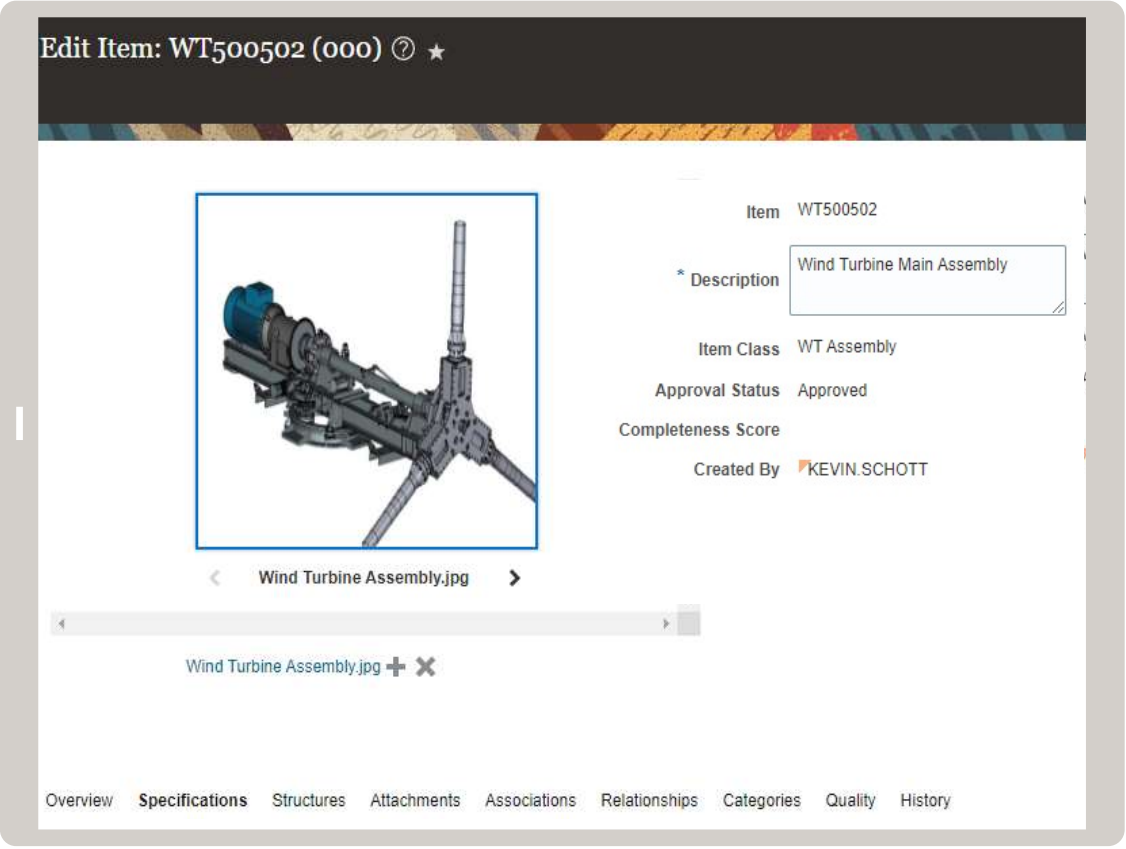
Enterprise Item Record

- Extensible
- Federated
- Secure



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Data Governance

Validate

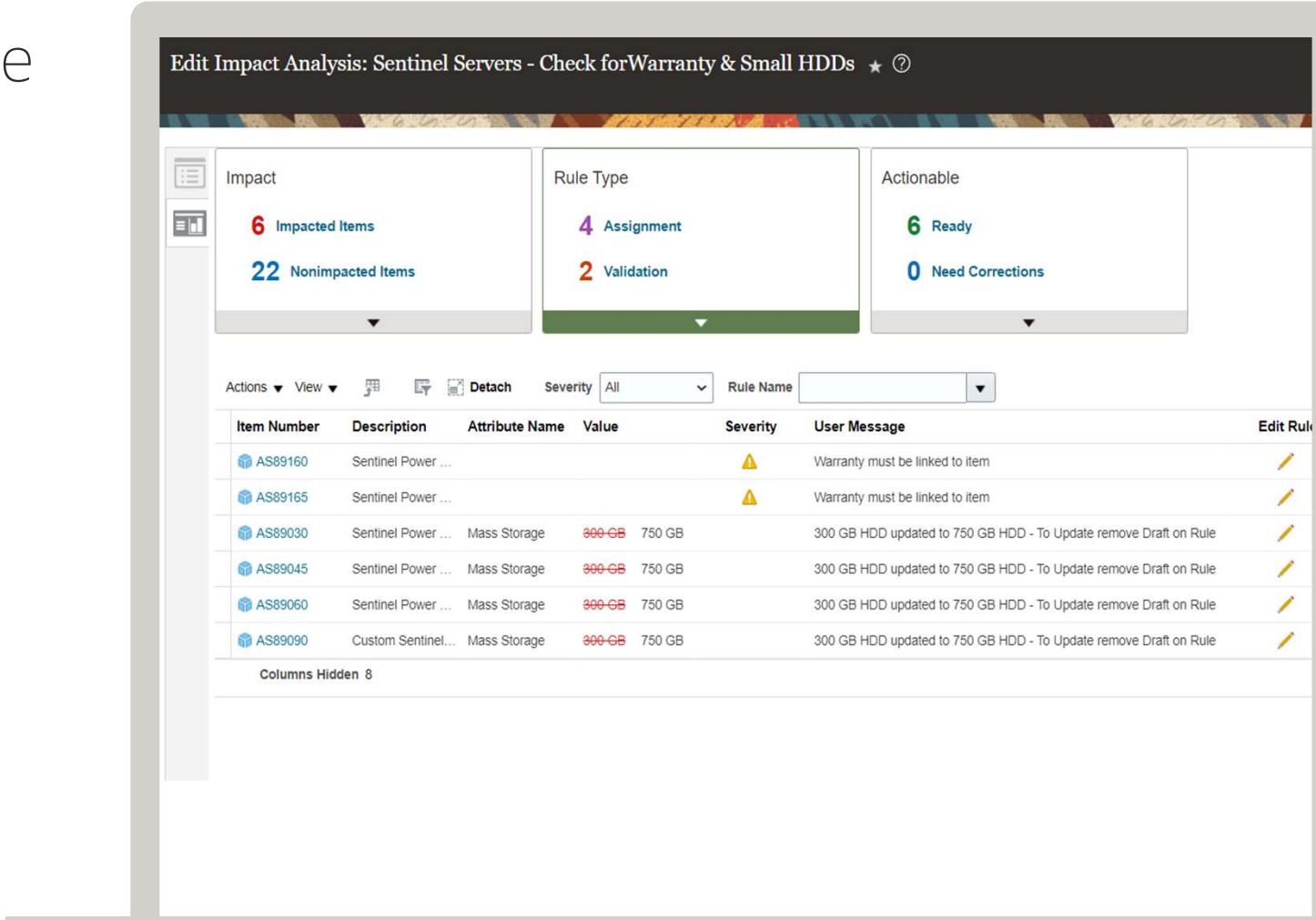
Auto-generate

Auto-classify

Standardize

Approve

De-duplicate



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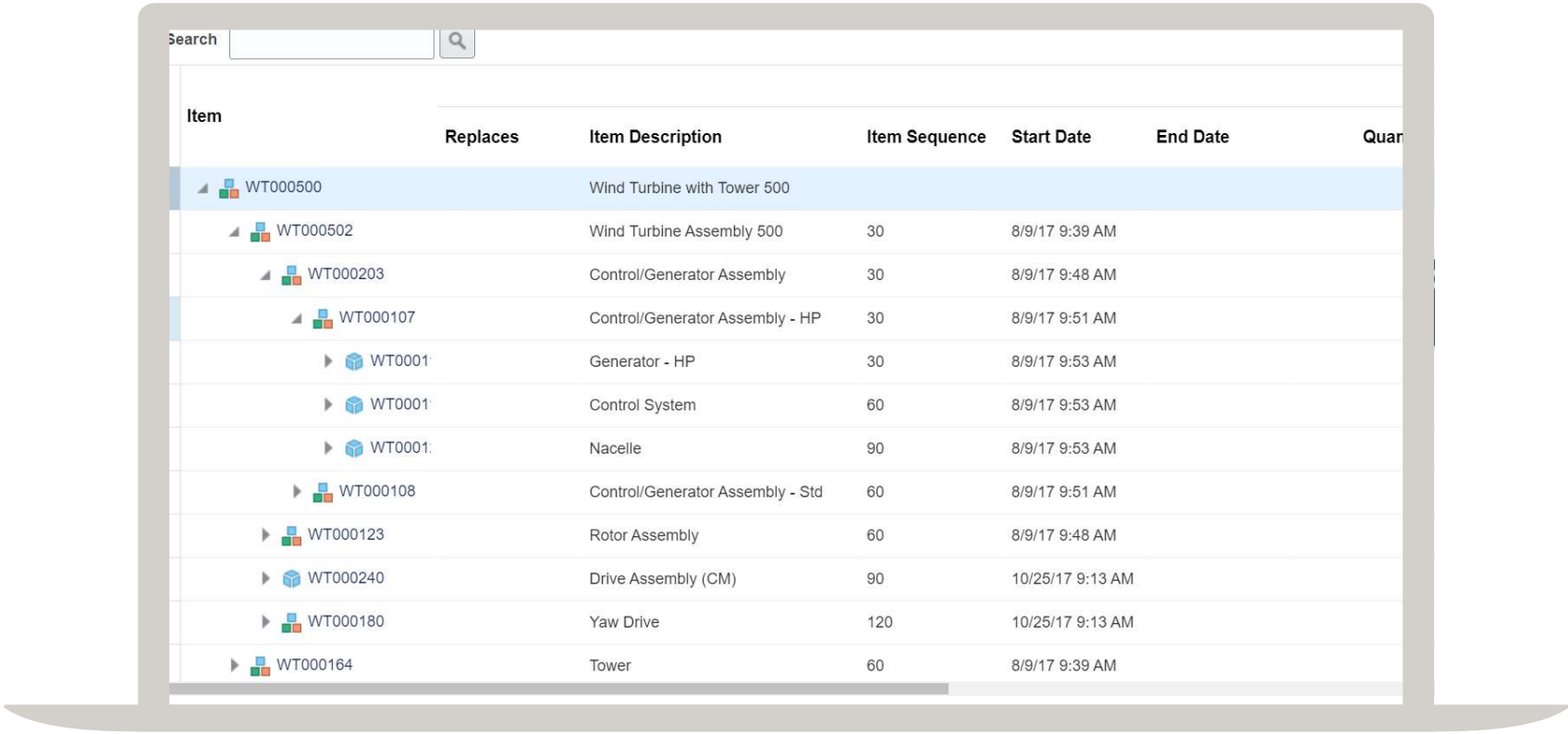
Item Structures & Compatible Units



Item	Replaces	Item Description	Item Sequence	Start Date	End Date	Quar
WT000500		Wind Turbine with Tower 500				
WT000502		Wind Turbine Assembly 500	30	8/9/17 9:39 AM		
WT000203		Control/Generator Assembly	30	8/9/17 9:48 AM		
WT000107		Control/Generator Assembly - HP	30	8/9/17 9:51 AM		
WT0001		Generator - HP	30	8/9/17 9:53 AM		
WT0001		Control System	60	8/9/17 9:53 AM		
WT0001		Nacelle	90	8/9/17 9:53 AM		
WT000108		Control/Generator Assembly - Std	60	8/9/17 9:51 AM		
WT000123		Rotor Assembly	60	8/9/17 9:48 AM		
WT000240		Drive Assembly (CM)	90	10/25/17 9:13 AM		
WT000180		Yaw Drive	120	10/25/17 9:13 AM		
WT000164		Tower	60	8/9/17 9:39 AM		

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Project-Driven Supply Planning

Load material demands by Project and Task

Reserve supplies for Project demands

Analyze the plan using Project attributes

Auto-Release orders for execution with Project and Task references

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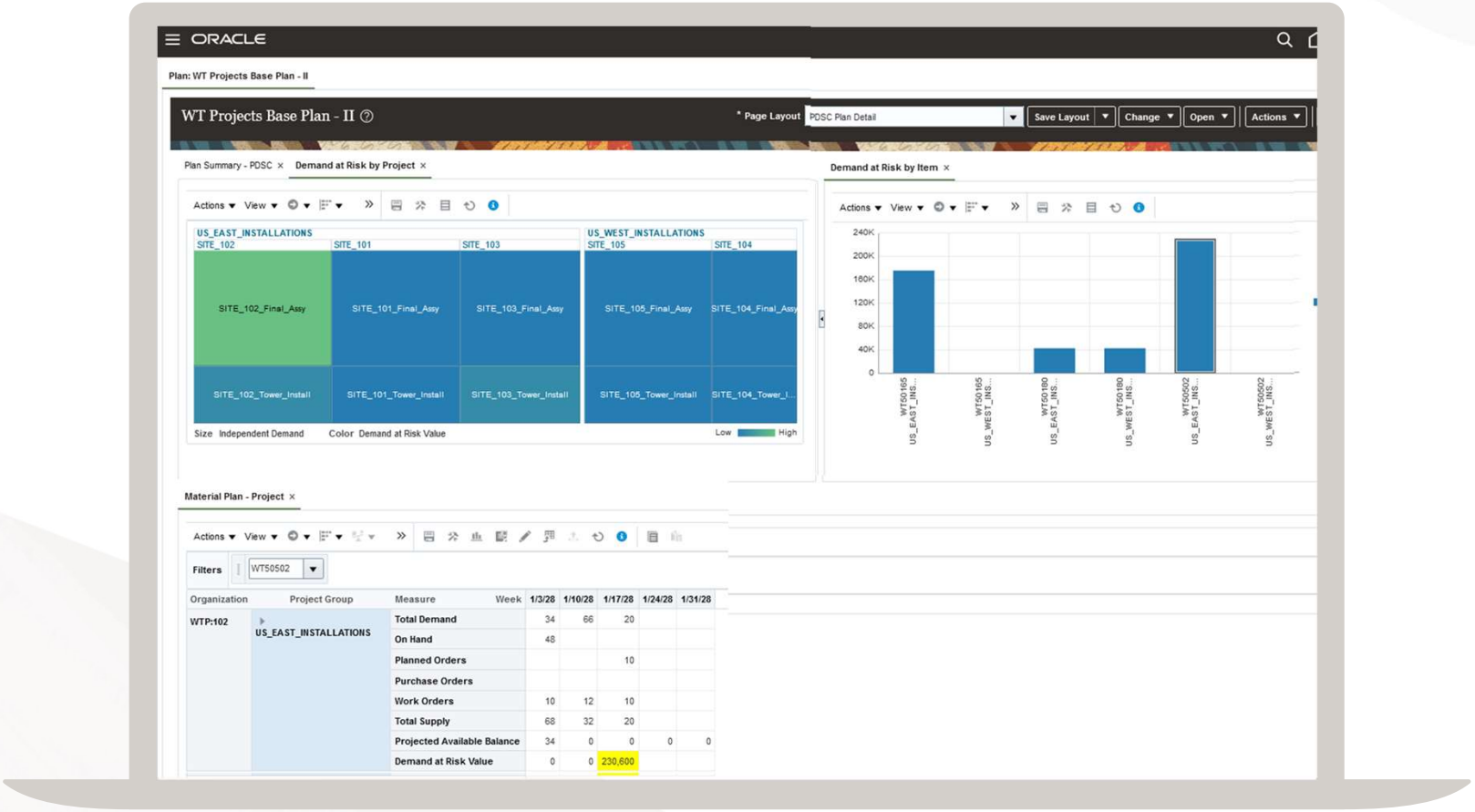
Insight across projects



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Designed For Change. Built For You.

Automate Purchasing

- Create requisitions and purchase orders
- Create project commitments
- Relieve commitments upon receipt

Engage with Suppliers

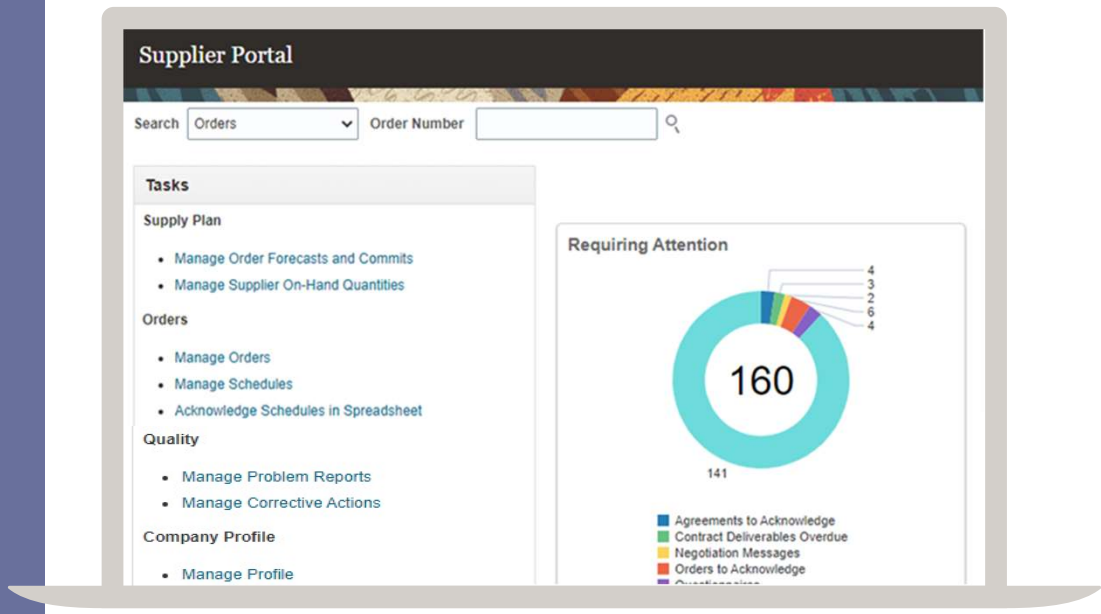
Supplier Qualification and Self-Service Onboarding

Sourcing

Engineering Collaboration

Planning Collaboration

Document & Track Project Procurement Deliverables



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Enterprise Quality Management

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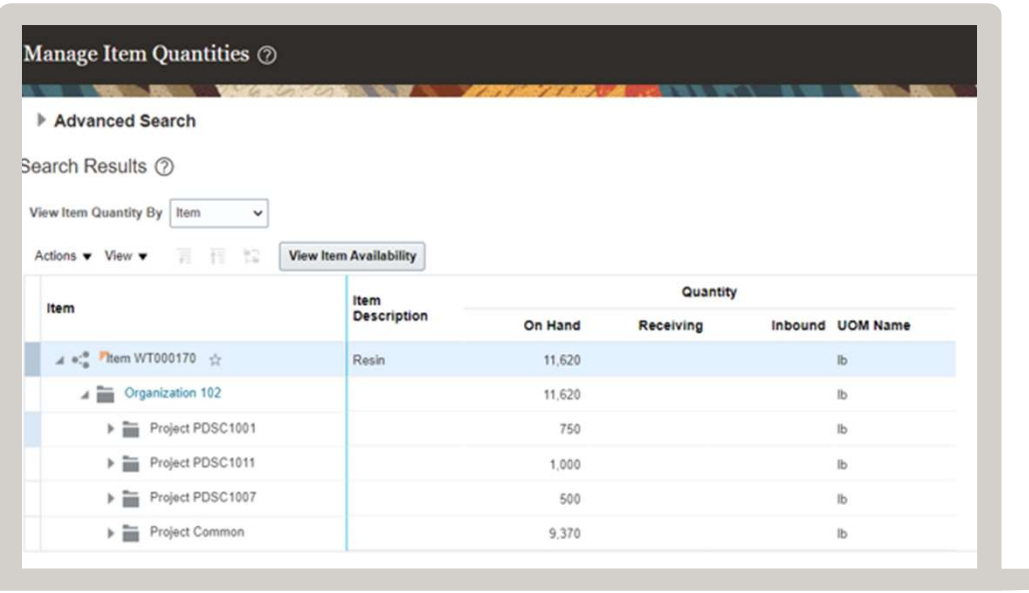
Track Inventory by Project

Complete visibility inventory by Project

Reserve common material for project tasks

Transfer materials
- Site to site
- Project to Project

Support multiple cost methods simultaneously
- GAAP
- FERC
- Joint Ventures
- IFRS



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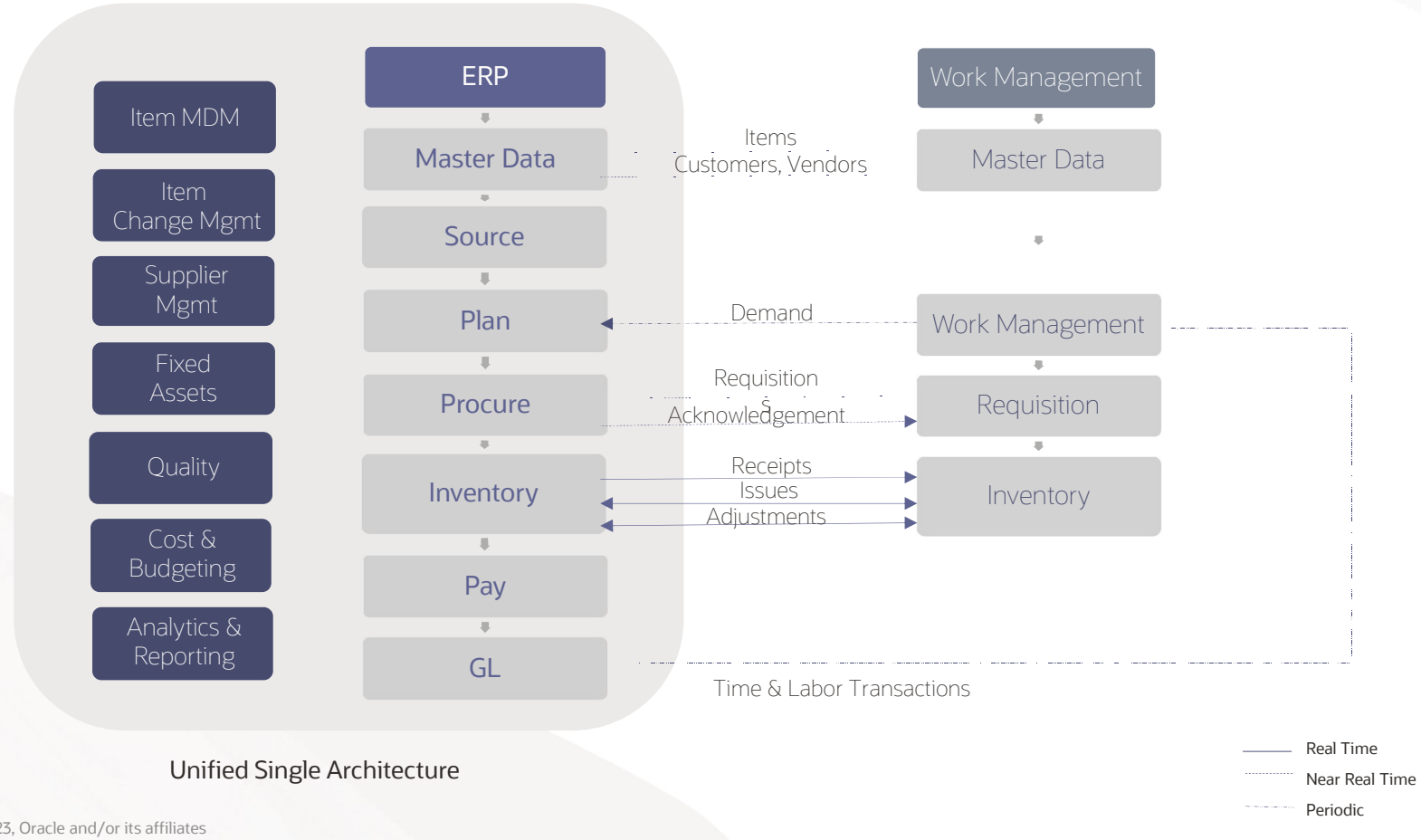
Manage the 'Seam'

Work Management Reference Architecture



Unified Single Architecture

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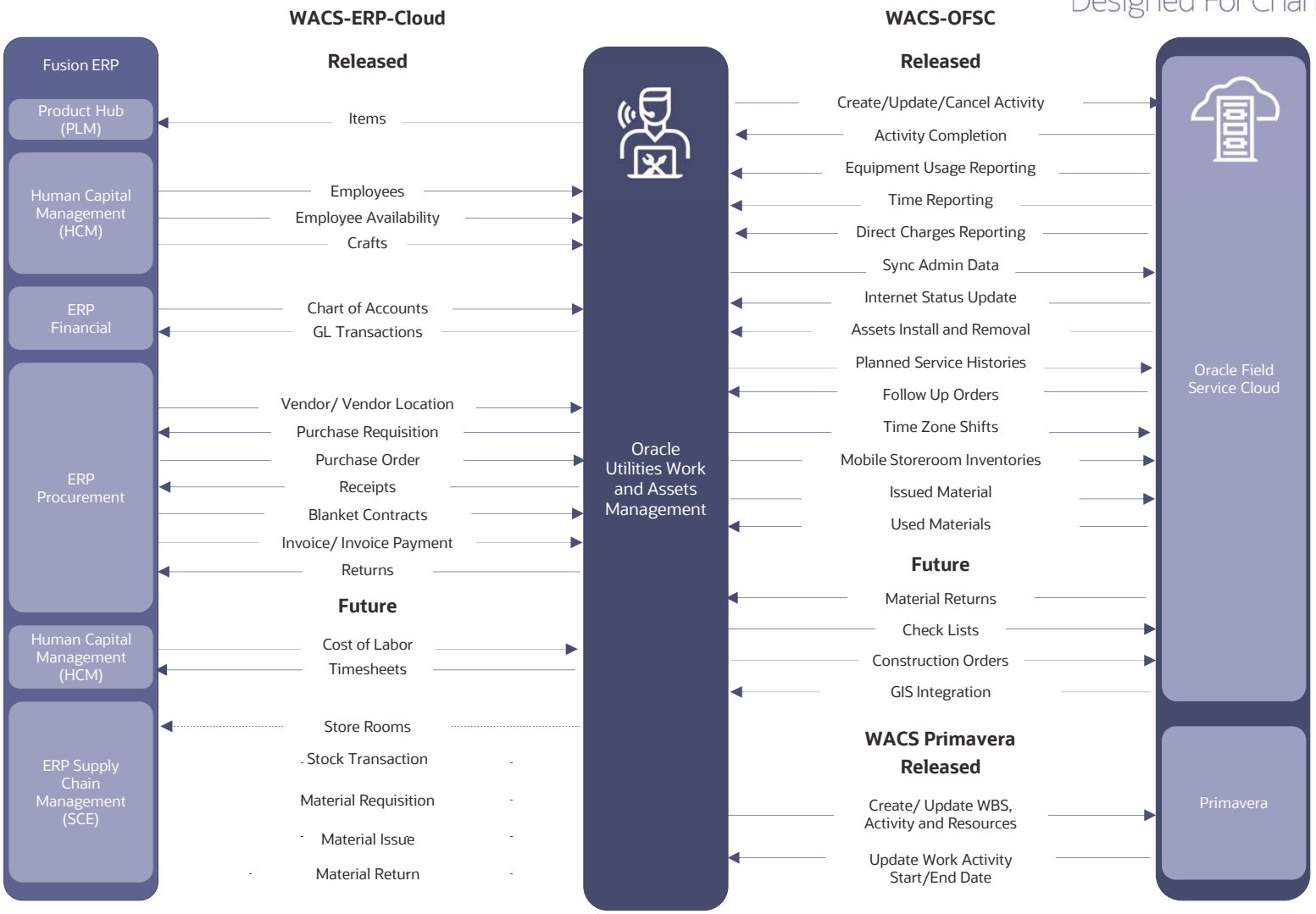

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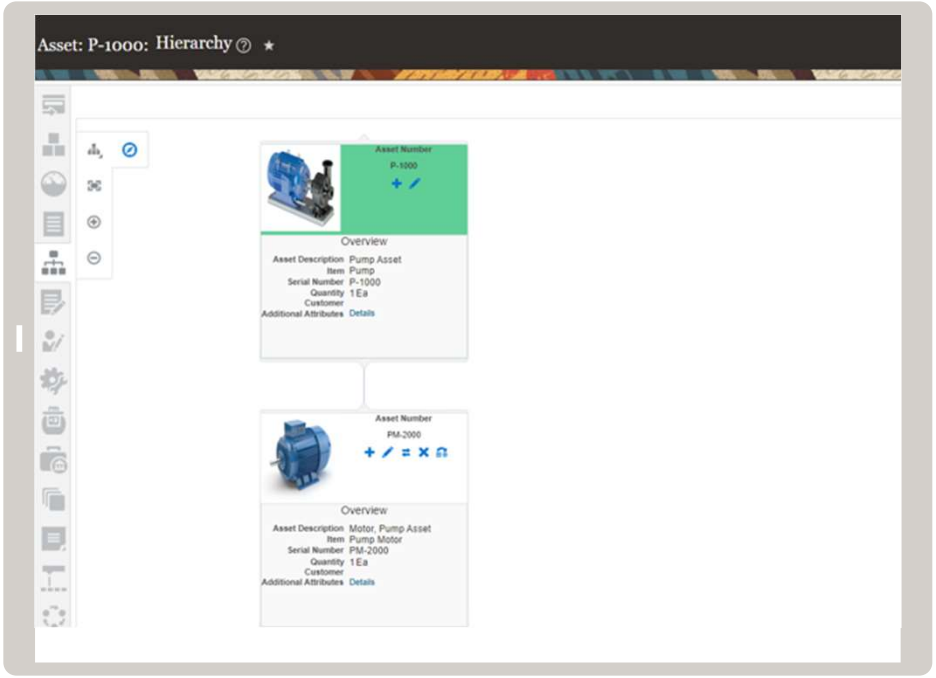
Manage Assets

Automate:

- Capitalization of Assets from Project
- Creation of Assets from Purchase Orders and Fabrication work

View Asset Timeline and Genealogy



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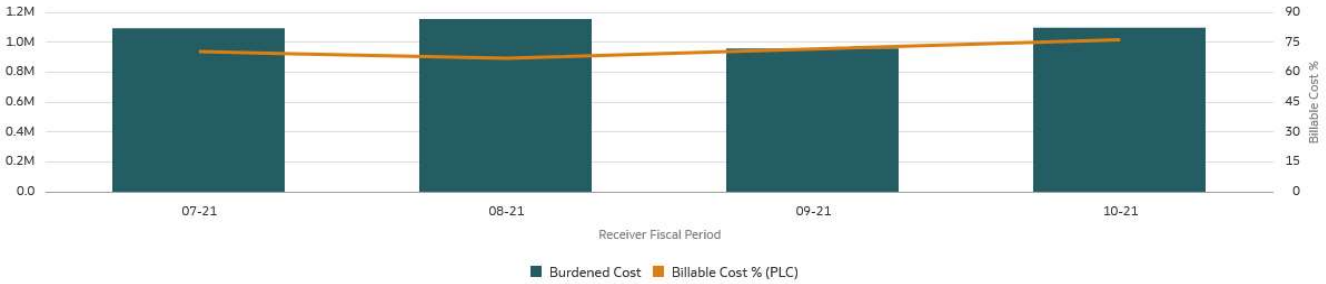
Project Cost Analysis - w/o filter

Data | Visualize | Present

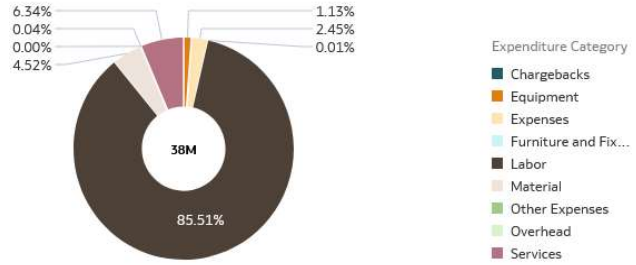
Project Business Unit	Project Manager	Project Organization Name	Project Type	Project Name
US1 Business Unit	All	All	All	All

Project Cost	Billable Cost	Billable Cost %	Non Billable Cost
$38,288,600.51	$27,255,471.05	71.18	$11,033,129.46

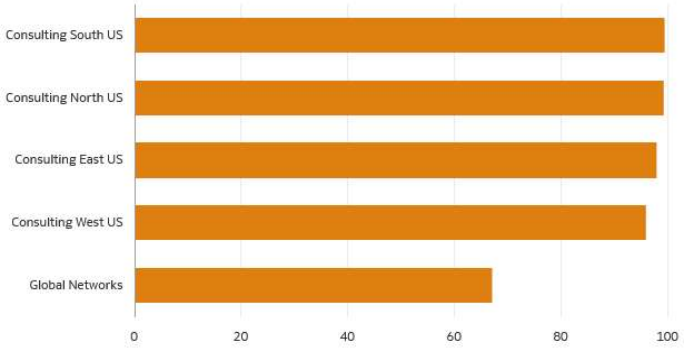
Project Costs TTM



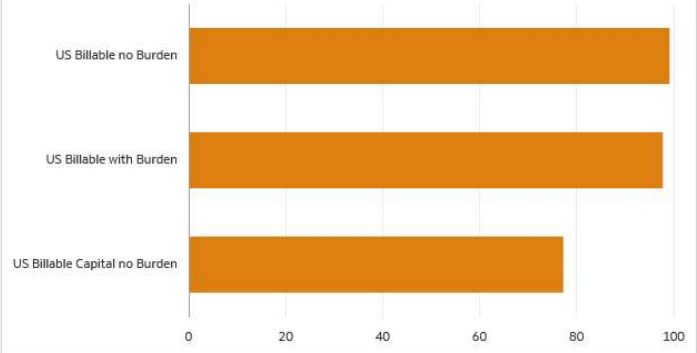
Project Cost By Expenditure Category



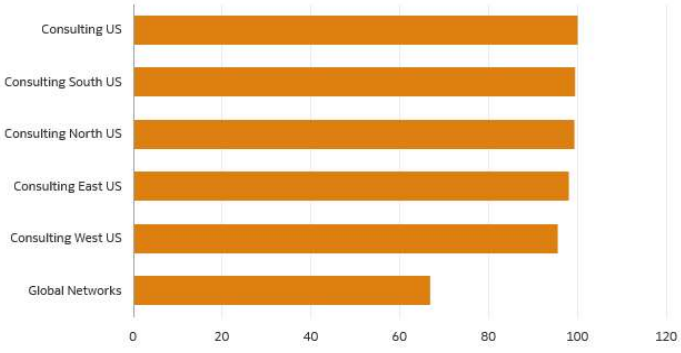
Top 10 Billable Cost % by Project Organization



Top 10 Billable Cost % by Project Type



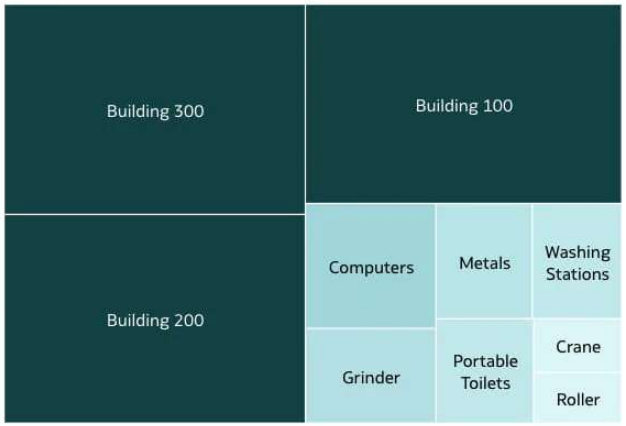
Top 10 Billable Cost % by Expenditure Organization



Overview | Details

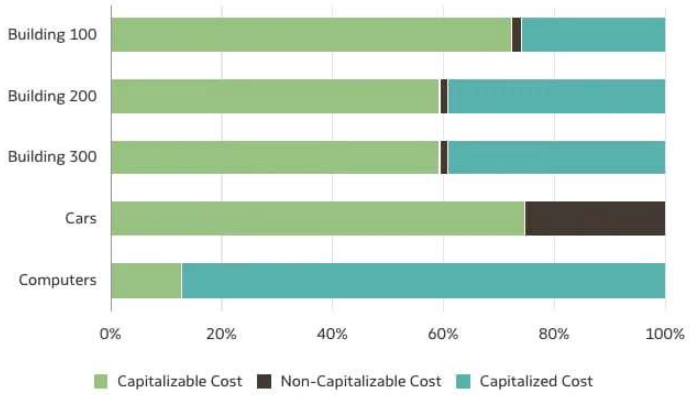
Project Asset Analysis

Top Asset Cost



Top Projects by Asset Cost

Asset by Capitalized Cost, Non-Capitalizable Cost, Capitalizable Cost



Project Assets Cost Details

Project Name	GL Account Combination	Current Amount	Grouped CIP Cost	Assigned CIP Cost	Unassigned CIP Cost	Capitalized Cost
Business World BDA Implementation	01-000-7710-0000-000	2,400.00	0.00	0.00	0.00	2,400.00
Business World BDA Implementation	01-000-7820-0000-000	230.00	0.00	0.00	0.00	230.00
Business World BDA Implementation	01-140-9110-0000-000	1,025.00	0.00	0.00	0.00	1,025.00

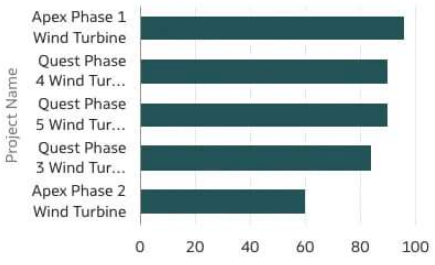
Asset Cost Details

Asset Name	Project Name	Current Amount	Capitalizable Cost	Non-Capitalizable Cost	Capitalized Cost	Actual Asset Units
Building 100	Fire Station Construction, Phase I	20,086.46	60,259.41	1,490.00	21,833.12	1
Building 200	Fire Station Construction, Phase I	20,086.46	60,259.41	1,490.00	40,122.92	1
Building 300	Fire Station Construction, Phase I	20,086.49	60,259.41	1,490.00	40,172.98	1
Bulldozer	Centrifuge Installation	1,000.00	20,350.00	66.00	0.00	1

Project-Driven Supply Chain Analysis

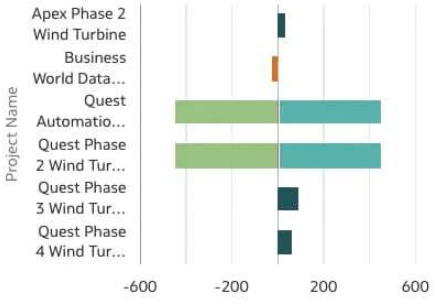
Order Fullfilment and Inventory

Open Sales Orders by Project Name



Shipped & Ordered Qty by Customer

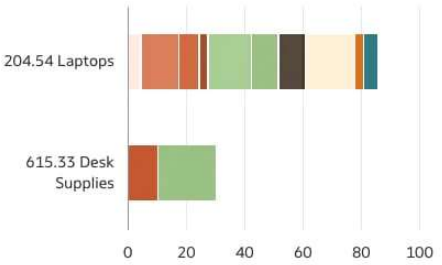
Project Inventory Transaction Qty



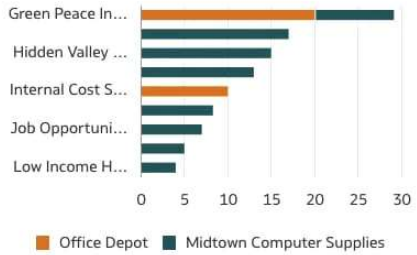
Qty Ordered, Shipped Qty by Item

PO & Requistions

Open PO by Purchasing Category, Project

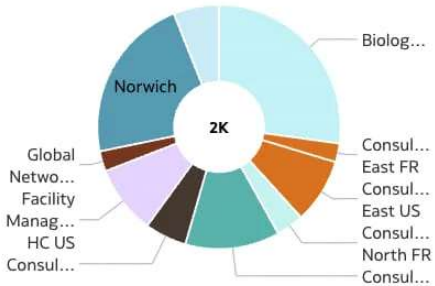


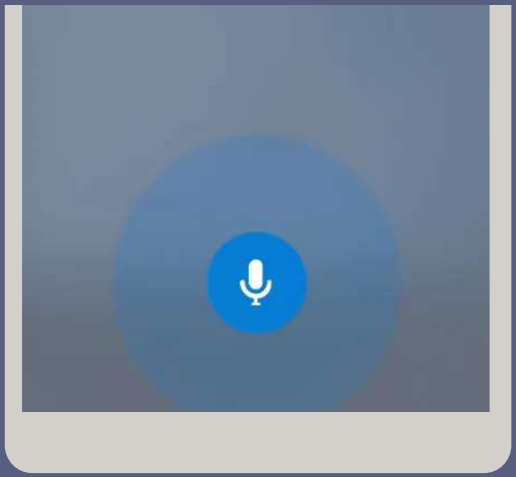
Open PO Qty by Project, Supplier

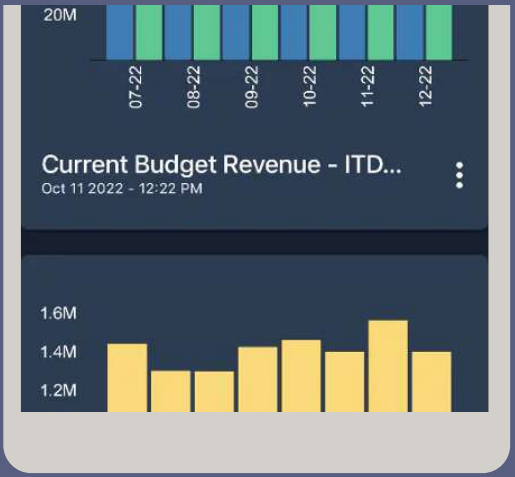


Requisition Qty by Project Name

Requisition Qty by Expenditure Org







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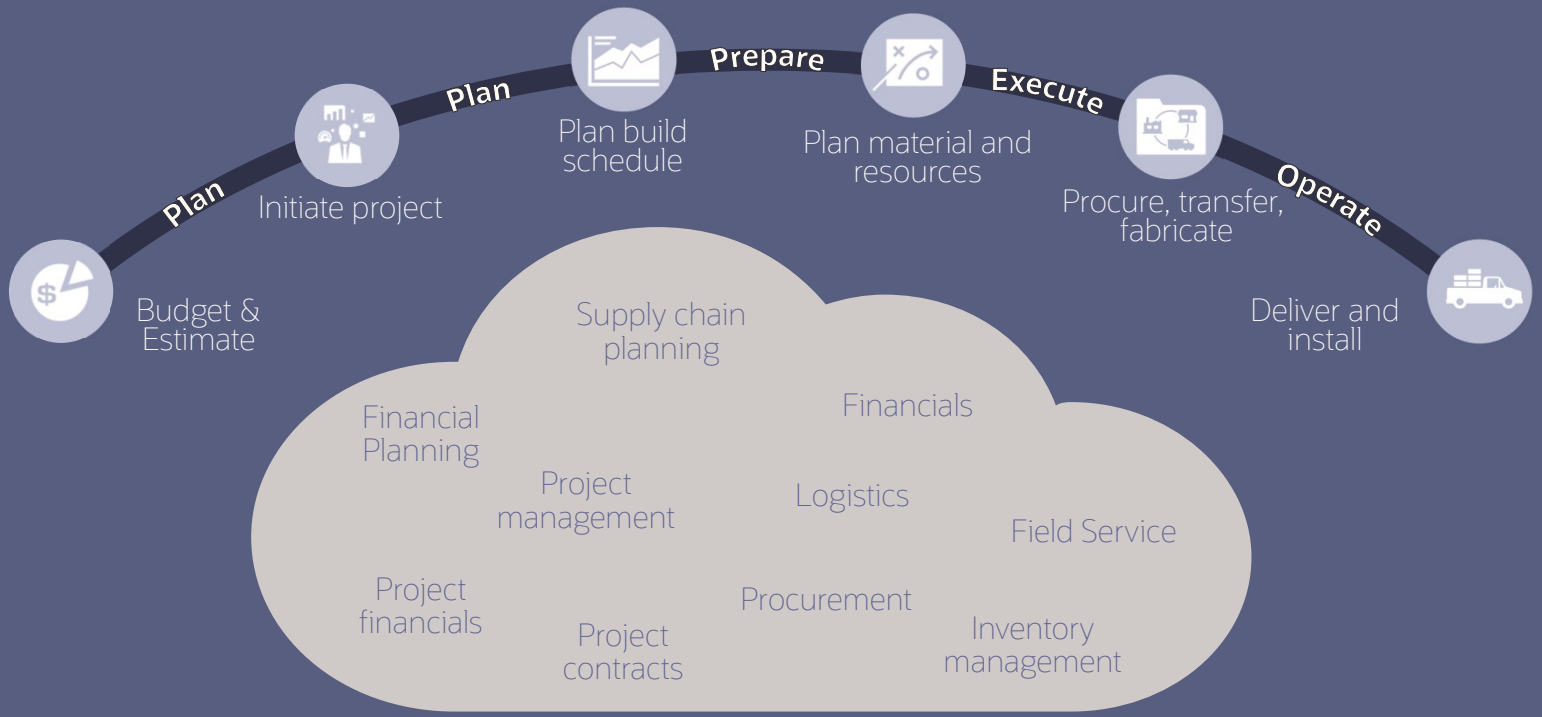
Project-Driven Supply Chain

Integrated plan-to-commission solution for constructing fixed assets



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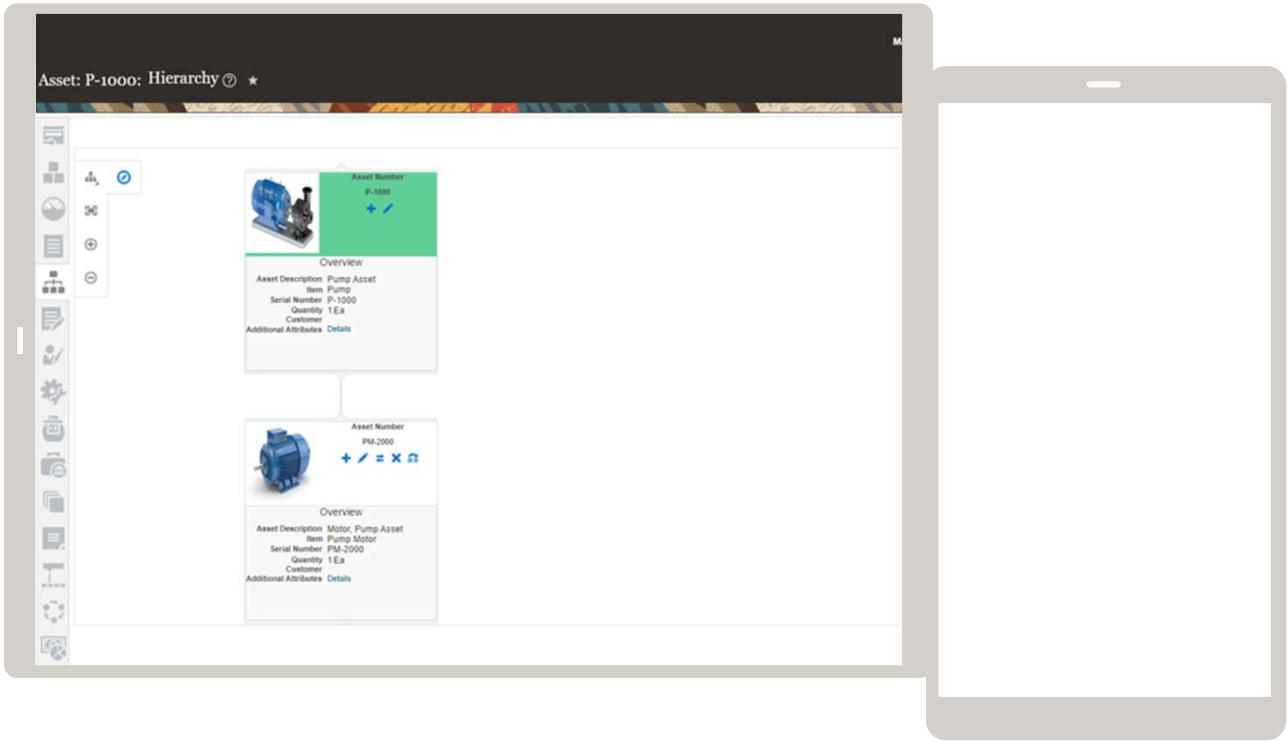

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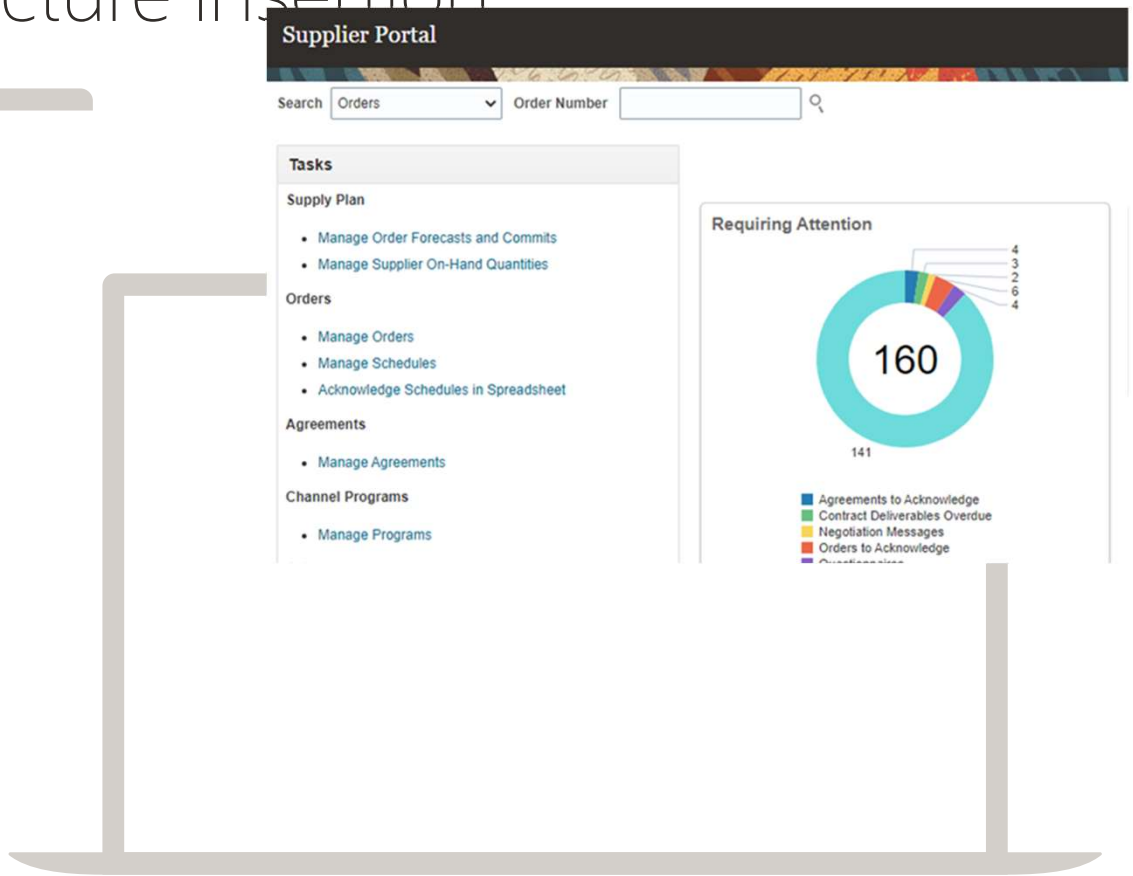
Title + Tablet, Monitor picture insertion



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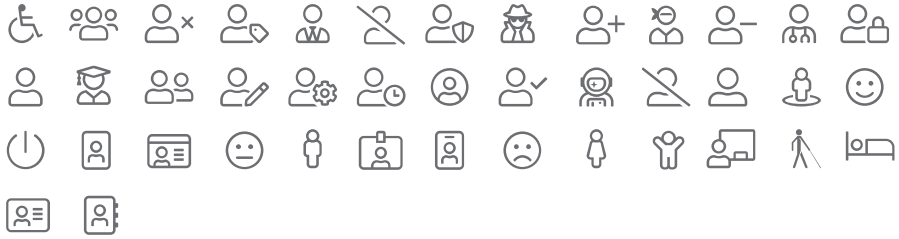

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