



Solution Strategy: Supply Chain

Adopting Next Practice on a Modern Cloud Platform

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Oracle Retail Industry Forum
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Solution Strategy: Supply Chain - Agenda

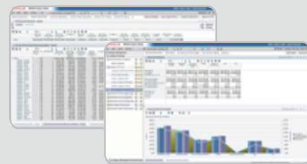


- A Look At Where We Have Been
- What's Our Strategy?
- What's Next?
- Questions?

Built On A Heritage Of Innovation

Supply Chain

Demand Forecasting
Allocation & Replenishment
Advanced Inventory Planning
Flexibility
Scalability



Optimized

Digital Channels
Returns Forecasting
Expanded Distribution
Complex Demand
Slow-moving Items
Visual Planning



Vertical Focused

Merchandise Financial Planning
Assortment & Item Planning
RDF Next Gen
Retail Science Platform
Optimization Cloud Services
Journey / Fulfilment Planning
Retail Home
RPAS Cloud Edition
Test Automation Toolkit
Performance Toolkit

- 2009

2010 - 2012

2013 - 2014

2015 - 2016

2017 - Today

Demand-Driven



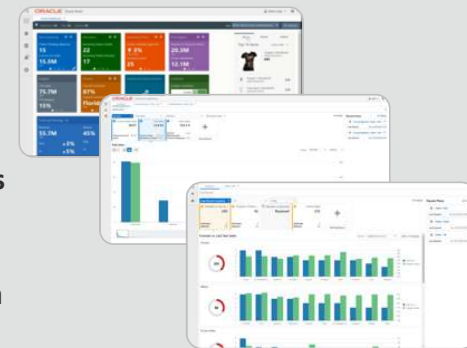
Replenishment Optimization
Size Profile Optimization
Pre-pack Optimization
Fusion UI
Enhanced Integration

Omnichannel



Intra-day Replenishment
Catch-weight & Spoilage
New Item Forecasting
Retail Science Cloud Services
Planning Cloud Services
Extensible SaaS
Retail Learning Subscription

Next Generation



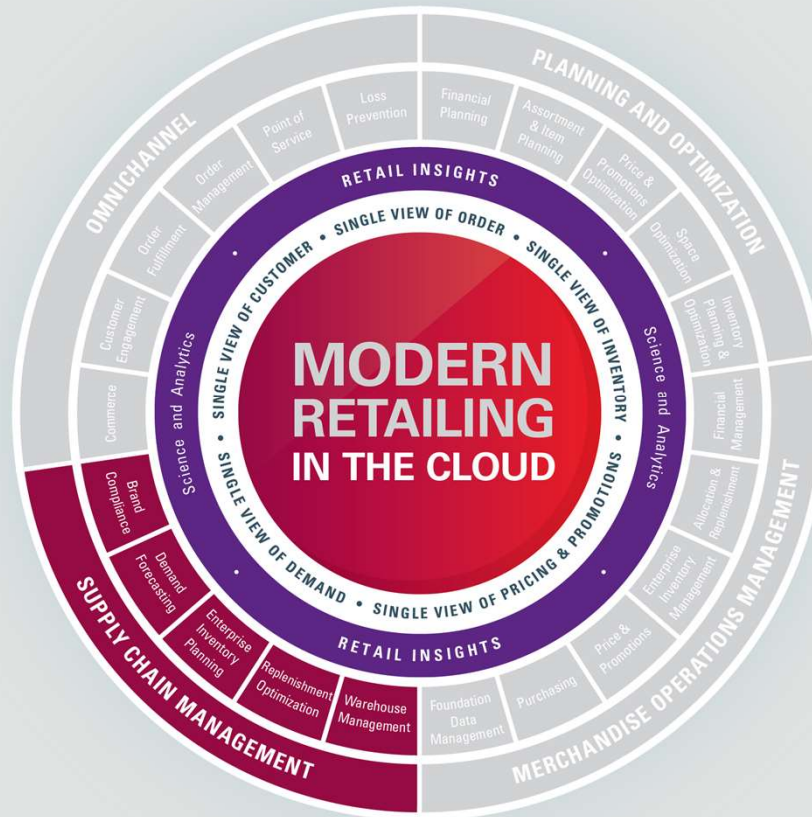
Built On A Heritage Of Innovation

Supply Chain

Demand-Driven - 2009	Optimized 2010 - 2012	Multi-Channel 2013 - 2014	Vertical Focused 2015 - 2016	Next Generation 2017 – Today
<ul style="list-style-type: none"> • Demand Forecasting • Allocation & Replenishment • Advanced Inventory Planning • Flexibility • Scalability 	<ul style="list-style-type: none"> • Replenishment Optimization • Size Profile Optimization • Pre-pack Optimization • Fusion UI • Enhanced Integration 	<ul style="list-style-type: none"> • Digital Channels • Returns Forecasting • Expanded Distribution • Complex Demand • Slow-moving Items • Visual Planning 	<ul style="list-style-type: none"> • Intra-day Replenishment • Catch-weight & Spoilage • New Item Forecasting • Retail Science Cloud Services • Planning Cloud Services • Extensible SaaS • Retail Learning Subscription 	<ul style="list-style-type: none"> • Merchandise Financial Planning • Assortment & Item Planning • Retail Science Platform • Optimization Cloud Services • Journey / Fulfilment Planning • Retail Home • RPAS Cloud Edition • Test Automation Toolkit • Performance Toolkit

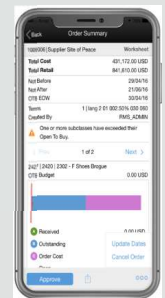
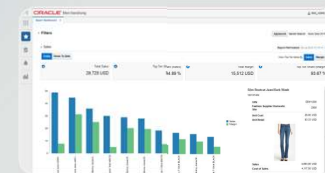
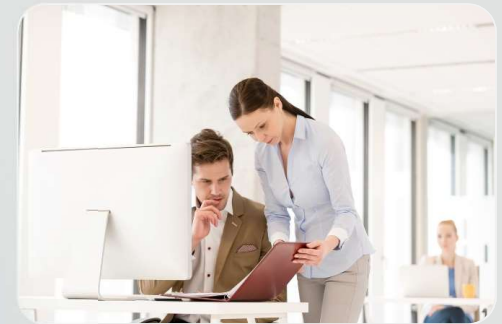
Oracle Retail Supply Chain

Built on the Platform for Modern Retailing



Oracle Retail Supply Chain

Built on the Platform for Modern Retailing



Solution Strategy: Supply Chain - Agenda



- A Look At Where We Have Been
- What's Our Strategy?
- What's Next?
- Questions?



The Platform For Modern Retail

1 From Best Practice to Next Practice

Exploit ML/AI To
Manage Speed & Scale

2 Tailor the Experience

Coordinate, Explain &
Predict Outcomes

3 Operational Agility

Offering Choice and
Flexibility with an End-
to-End Modern Cloud
Platform



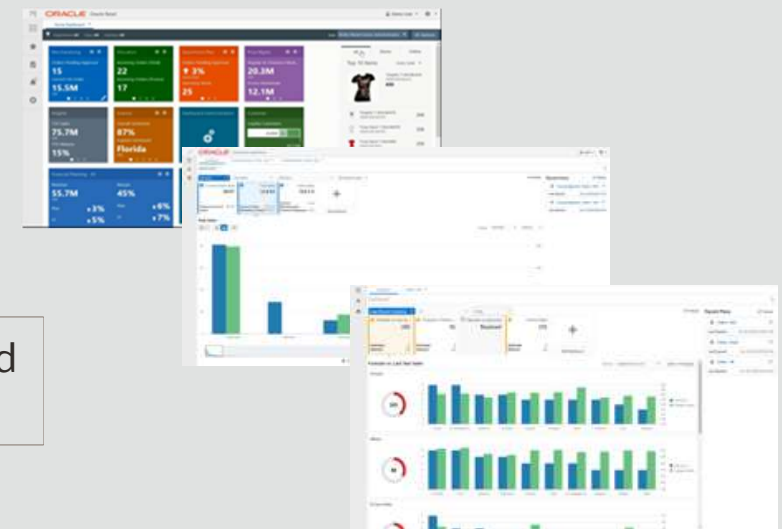
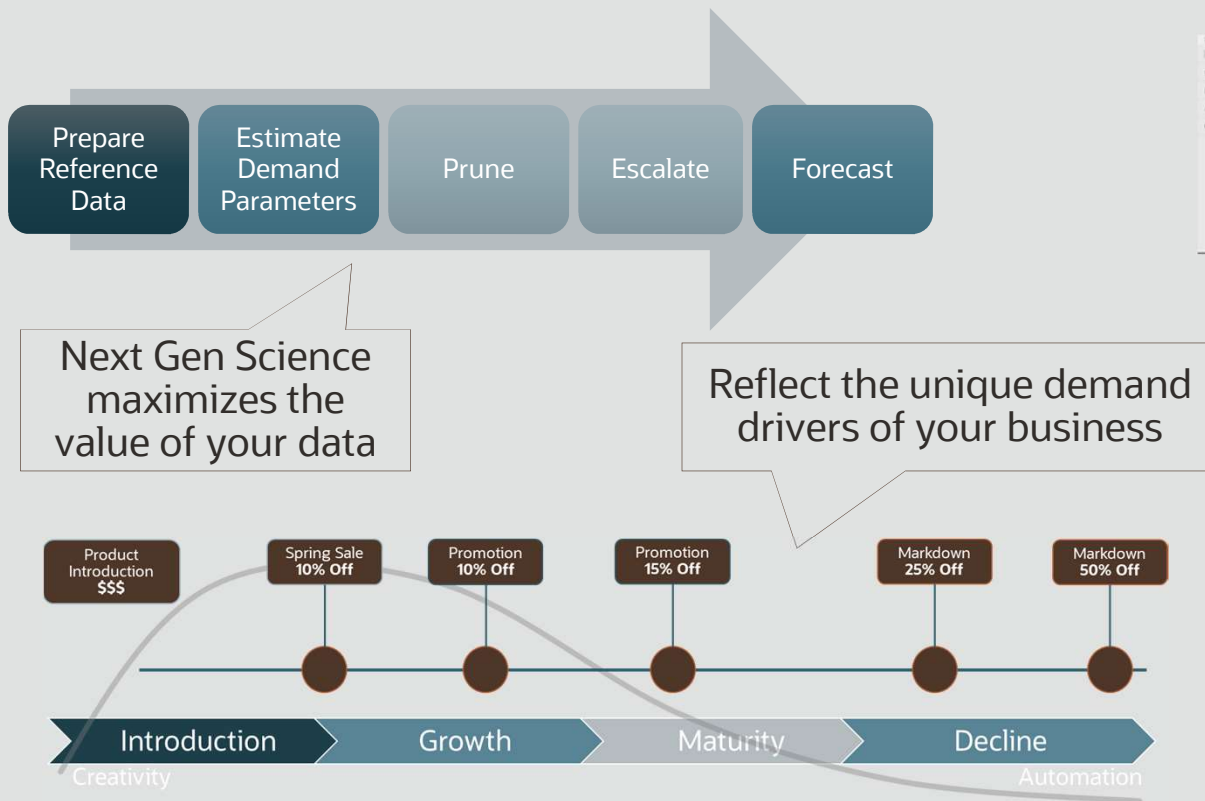
The Platform For Modern Retail

1 From Best Practice to Next Practice

Exploit ML/AI To
Manage Speed & Scale

Maximizing Lifecycle Accuracy

Retail Demand Forecasting

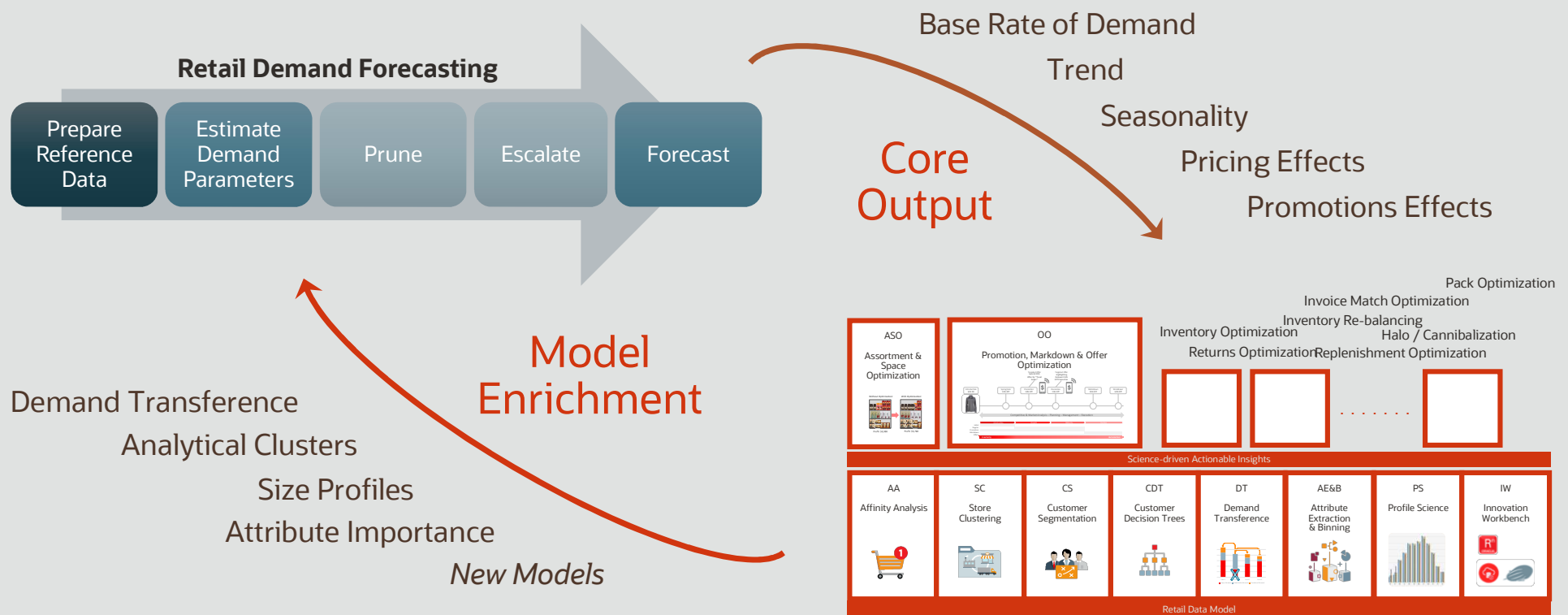


Maximize the productivity of your team

Maximizing the Value of Your Data

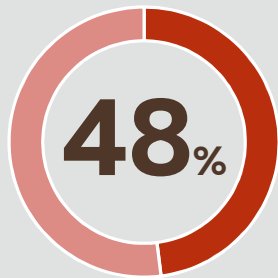
Increasing Accuracy with Data Science

1 From Best Practice to Next Practice



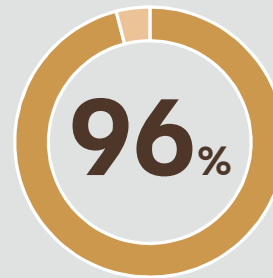
Driving Customer Success

Customer Case Studies



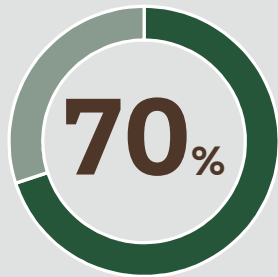
Baseline Forecasting

Increase in overall forecast accuracy using next generation forecasting science



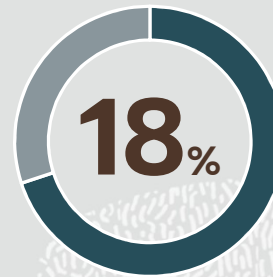
Baseline Forecasting

Forecasts improved using next generation forecasting science



Promotion Forecasting

Promotional forecasts improved using completely automated next generation forecasting science



Demand Transference

Accuracy improvement for department with frequent assortment changes

Driving Customer Success

A Customer Case Study



promotional forecasts improved using completely **automated** next generation forecasting science



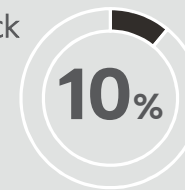
forecasts **adjusted** by end-users using **current** solution



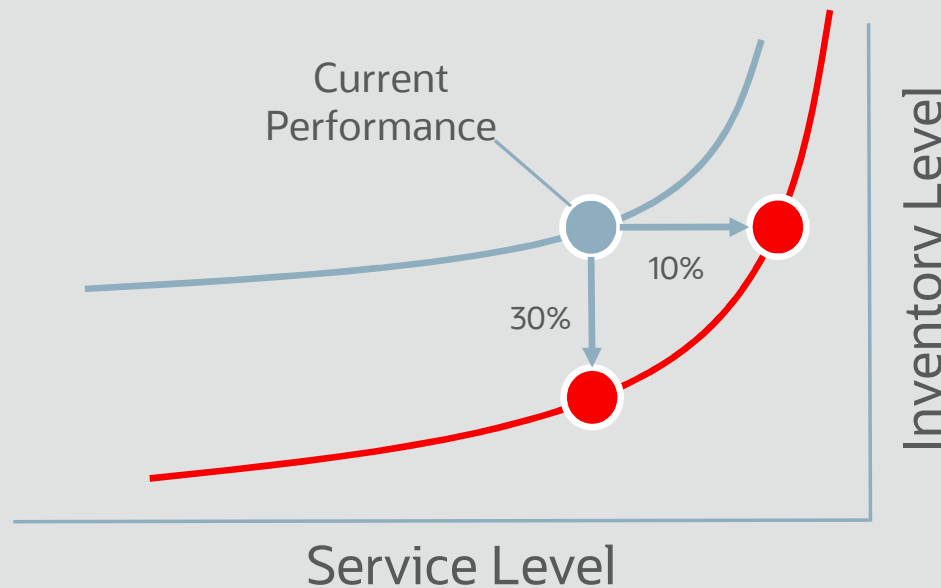
reduction in Inventory while achieving same Service Levels



decrease in Safety Stock from higher forecast confidence



improvement in **Service Levels** through smarter placement of same Inventory

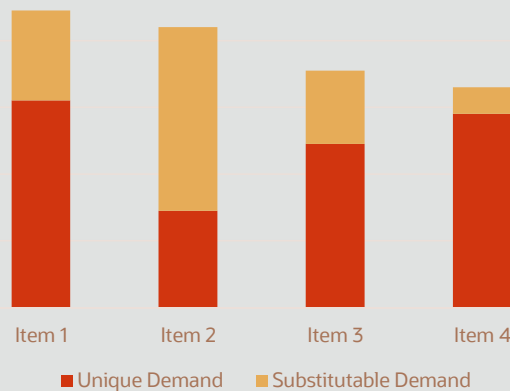


Delivering Tangible Results:

Our next generation forecasting science was evaluated against **2.2M units sold** over the holiday season. With the forecast accuracy improvements, the retailer could achieve the same sales with at least **345K units less** of inventory.

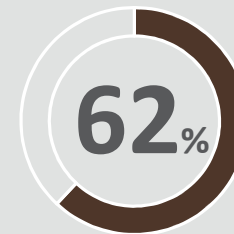
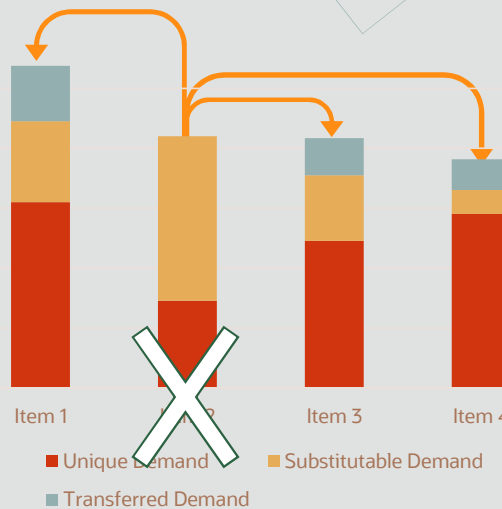
Connecting Customer Preference

Demand Transference Science



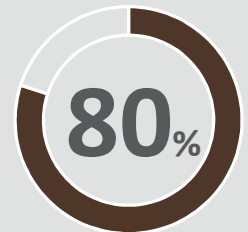
Learn customer
preference

Adapt to assortment
and availability



Current accuracy for
department with
frequent assortment
changes

Accuracy with next
generation RDF paired
with Demand
Transference science

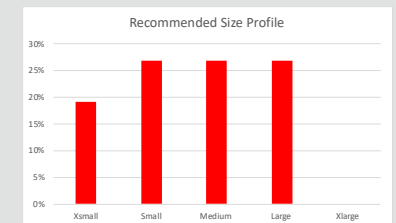
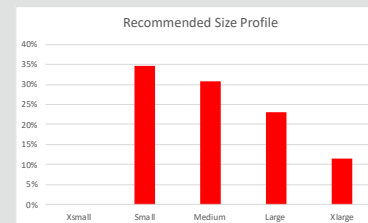
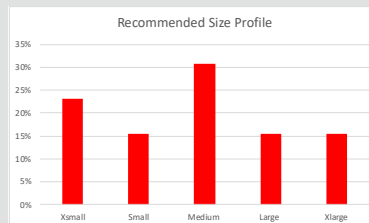
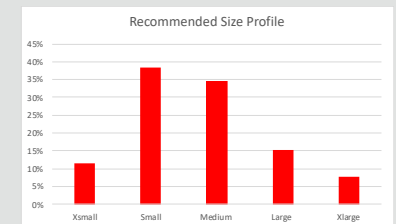
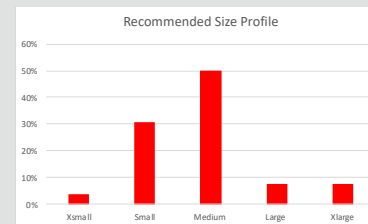
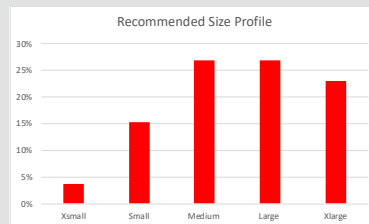


Exploit AI to manage
speed and scale

Optimizing Customer Fit Preferences

Size Profile Science

1 From Best Practice to Next Practice



Store 1



Store 2



Store 3

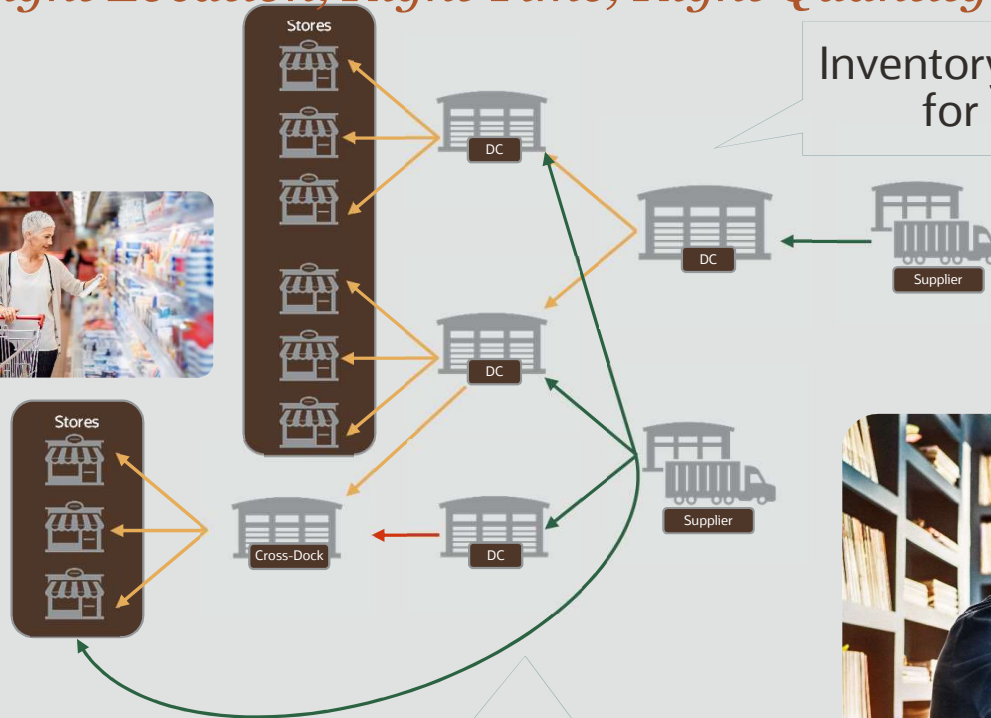
Demand & Inventory Planning

Right Product, Right Location, Right Time, Right Quantity

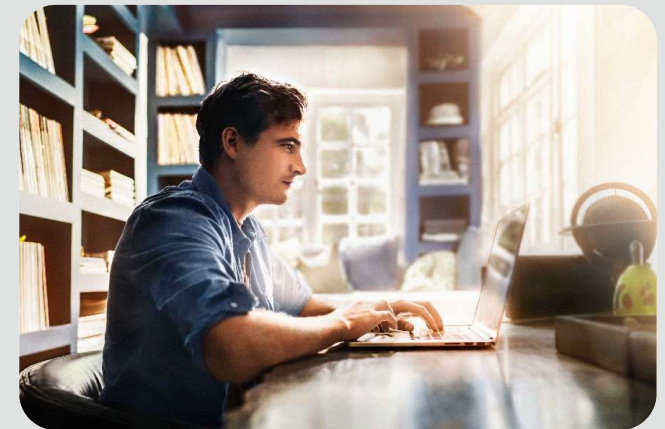
Align placement with fulfilment



Inventory movement optimized for Profit and Service

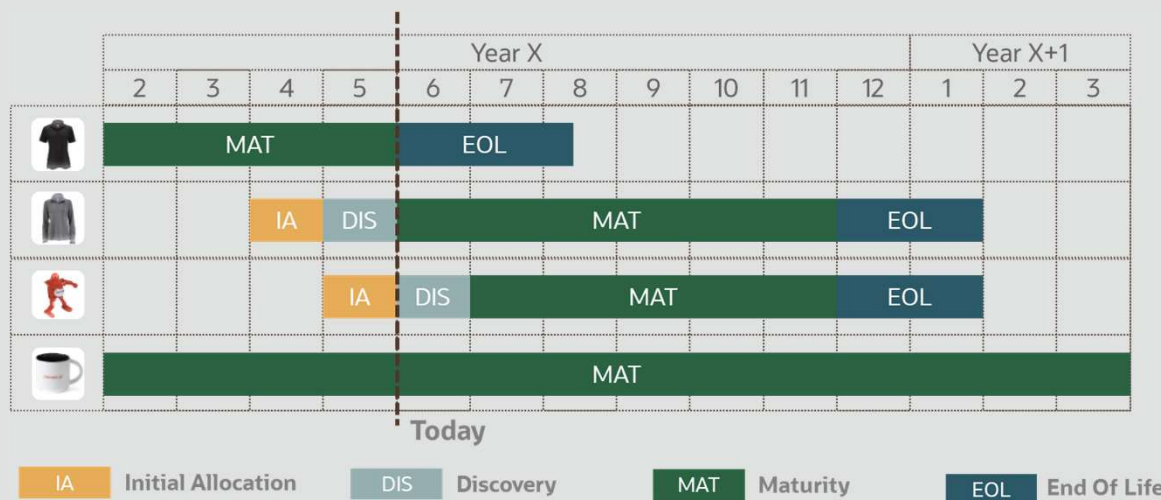


Flexibility for the Modern Supply Chain



Demand & Inventory Planning

Transforming Lifecycle Strategies into Inventory Movement

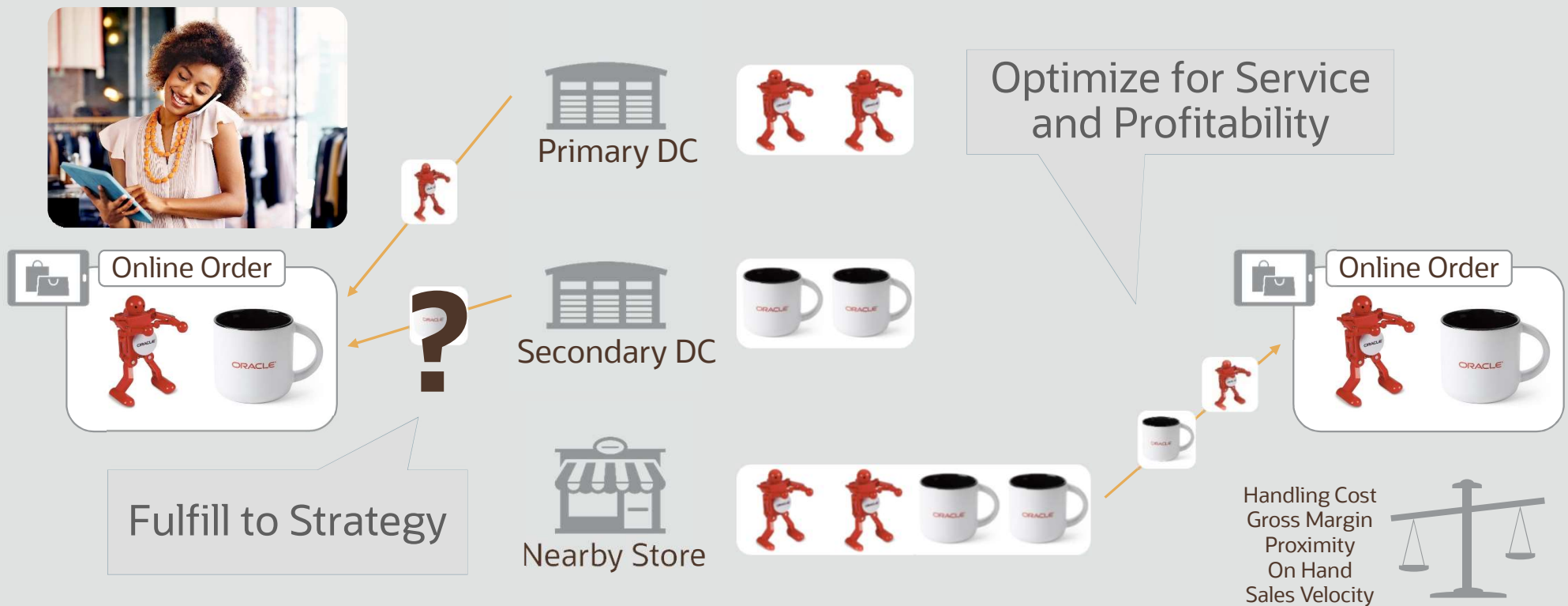


End of Life	EOL SL 50%	EOL SL 50%	EOL SL 50%
Maturity	SL 90%	SL 95%	SL 98%
Discovery	SL 95%	SL 98%	SL 99%
Initial	20% Season Sales	25% Season Sales	30% Season Sales
	C	B	A
	SKU-Store Behavior Profile		



Order Broker

Optimizing Inventory with Intelligent Fulfilment



Returns Logistics

Increase Profitability of Returns

1 From Best Practice to Next Practice



Keep in Store
Ship to DC
Discount ?



RETURNED



50% Return rate in key fashion categories for online channel



Optimal Returns Strategy

1. Ship to DC, No Discount
2. Ship DC, Consider Discount
3. Keep in Store, Consider Discount

Revenue increase opportunity from markdown reductions 2%

Modern Retail Sciences

Exploiting All Your Levers to Optimize Inventory

Increase Shelf Efficiency with
Assortment & Space Optimization



5-12% reduction in inventory based
on multiple retail case studies

Shape Demand with
Offer Optimization



5% average sell thru increase
based on 15+ retail case studies



The Platform For Modern Retail

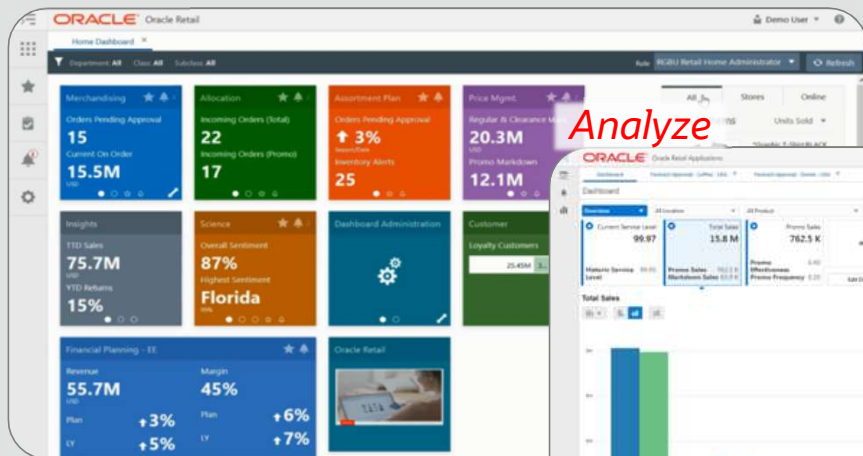
2 **Tailor the Experience**

Coordinate, Explain &
Predict Outcomes

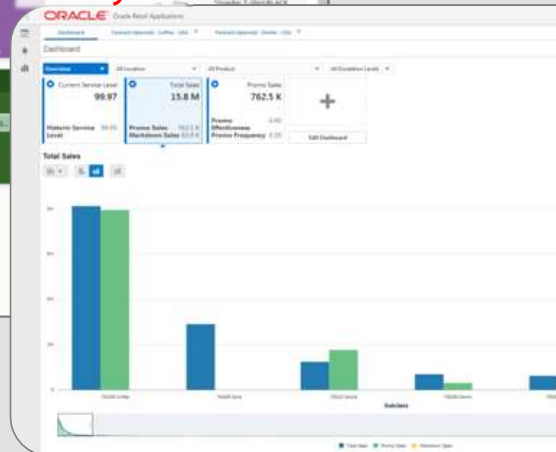
Exception-driven Retailing

Retail Demand Forecasting Cloud Service

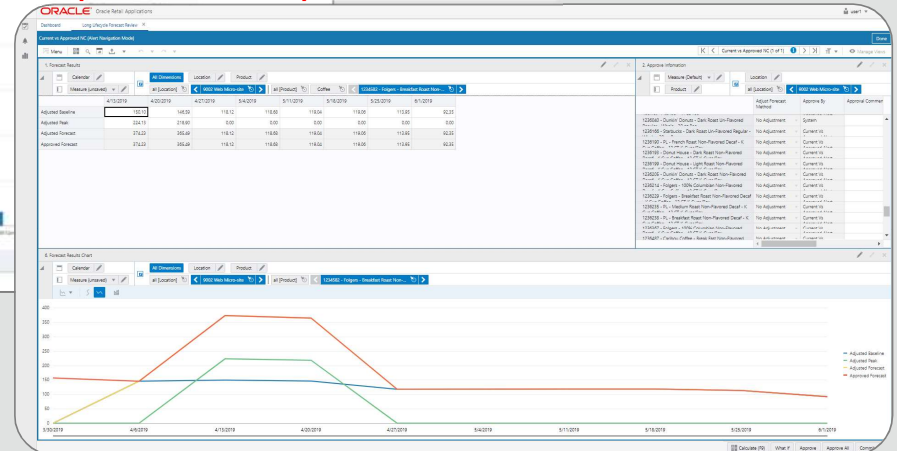
Connect



Analyze



Experiment, Explore and Act

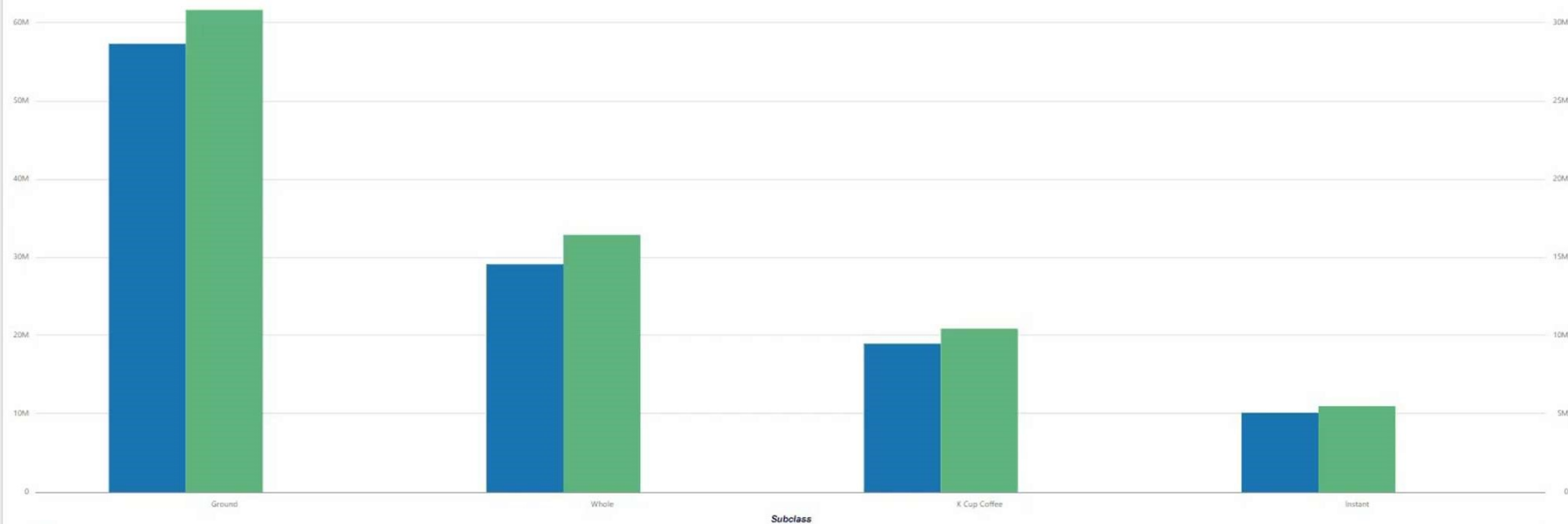


Overview All Location Coffee All Escalation Levels

Total Sales 115.5 M	Promo Sales 63.2 M	Markdown Sales 0.00
Promo Sales 63.2 M	Promo Effectiveness 60.55%	Markdown Effectiveness 0.00%
Markdown Sales 0.00	Promo Frequency 24.60%	Markdown Frequency 0.00%

Total Sales

Bar Chart



Total Sales Promo Sales Markdown Sales

Refresh

Recent Workspaces

Refresh

Recent Exceptions

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Short Lifecycle Forecast Review

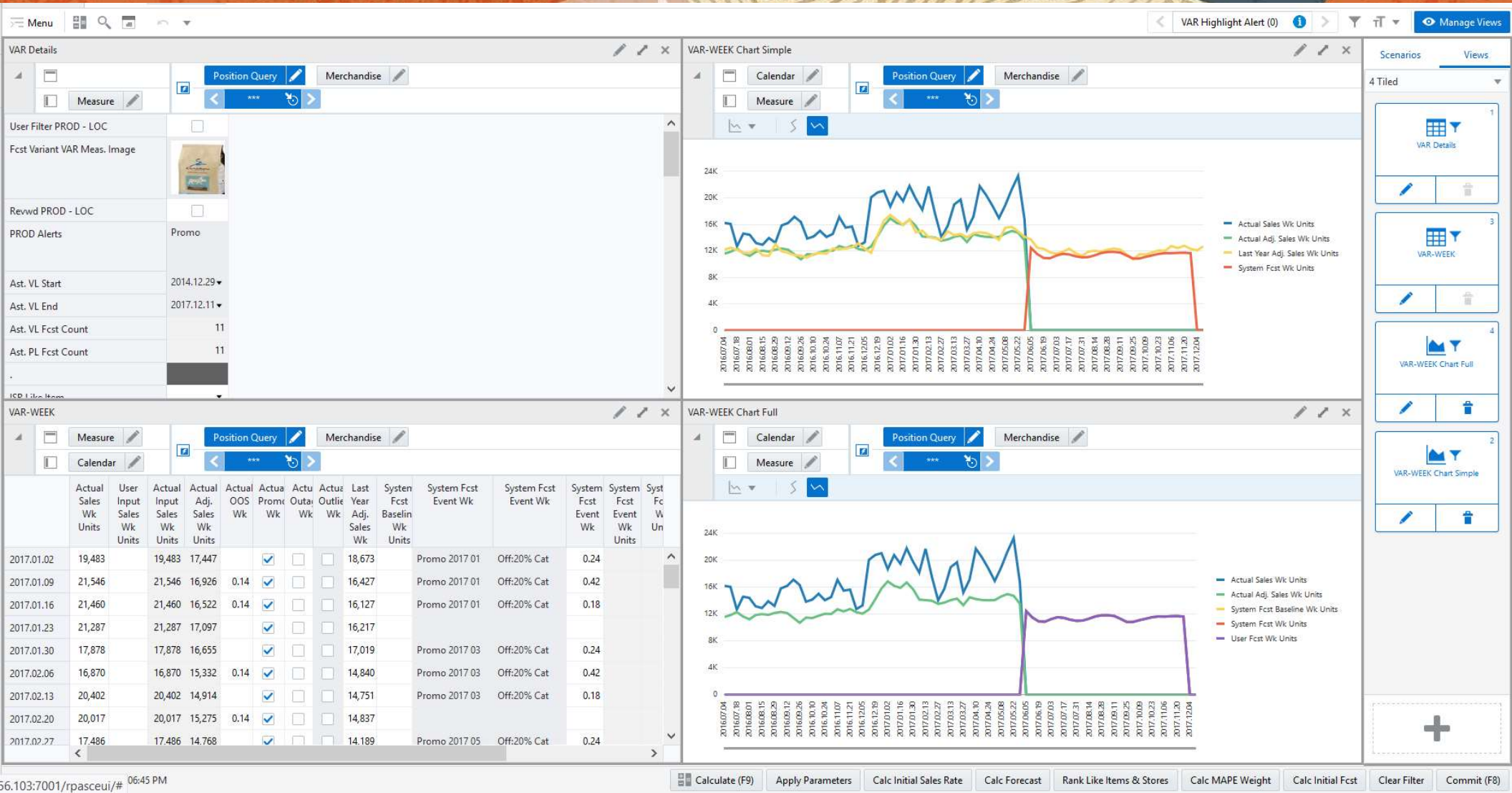
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Long Lifecycle Forecast Review

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Sort by: Total Sales

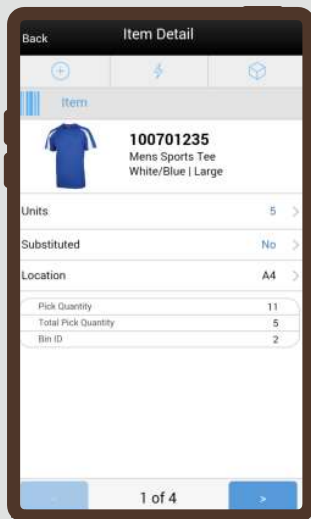




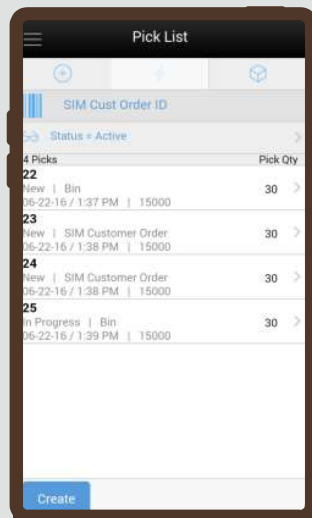
Coordinate the Outcomes

Store Inventory Operations Cloud Service

Item



Customer Order Picks



Pick Substitutions





The Platform For Modern Retail

3 **Operational Agility**

Offering Choice and
Flexibility with an End-
to-End Modern Cloud
Platform

The Platform for Modern Retail

Integrated Platform

3 Operational
Agility

Merchandise Financial
Planning

Assortment & Item
Planning

Allocation

Replenishment

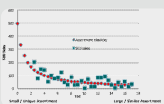
Item Lifecycle Pricing

Inventory
Planning

Retail Demand Forecasting

DT

Demand
Transference



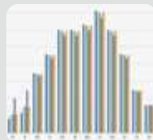
AC

Advanced
Clustering



PS

Profile Science



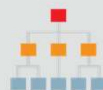
AE&B

Attribute
Extraction &
Binning



CDT

Customer
Decision Trees



AA

Affinity Analysis



CS

Customer
Segmentation



OO

Offer
Optimization



IW

Innovation
Workbench



Retail Sciences

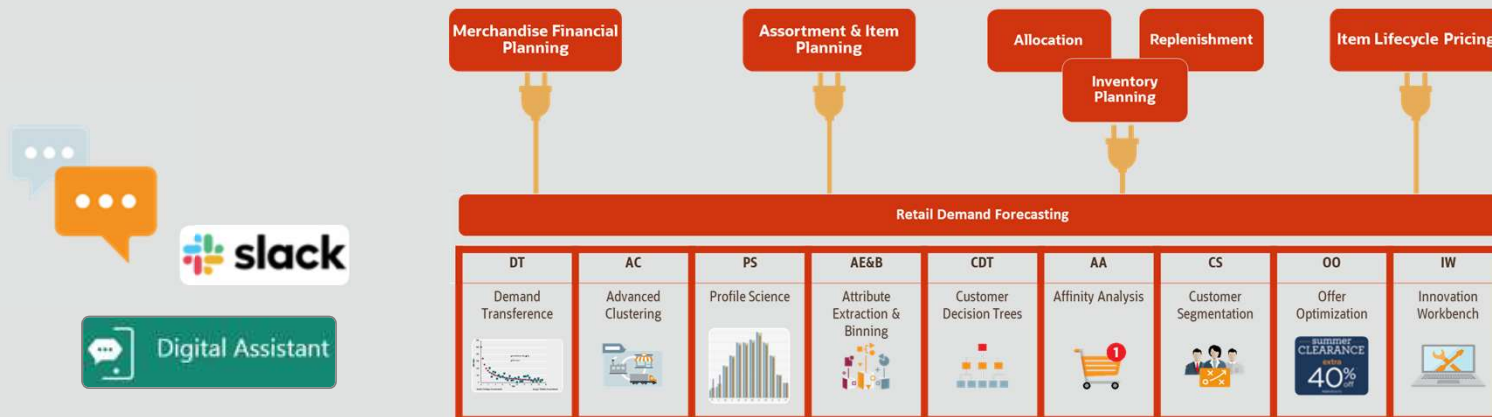
The Platform for Modern Retail

Driving Innovation Leveraging Extensible Capabilities

Dashboards
Exceptions
Workflows
Visualizations
Views

***Evolve Your Cloud Service with Upgrade-
Compatible Extensions***

Data Model
Analytics
Models & Algorithms
Integrations
Orchestration



Driving End User Value

Self-Sustaining Service

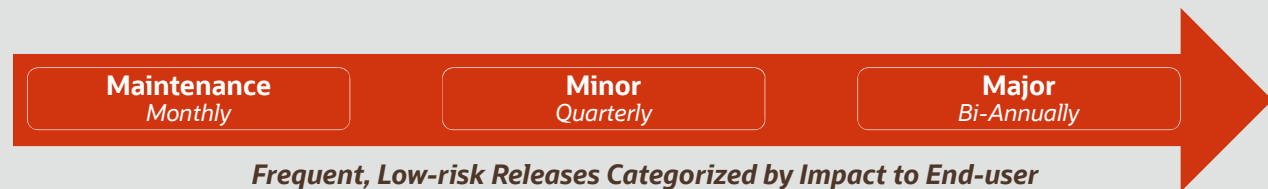
Speed to Value



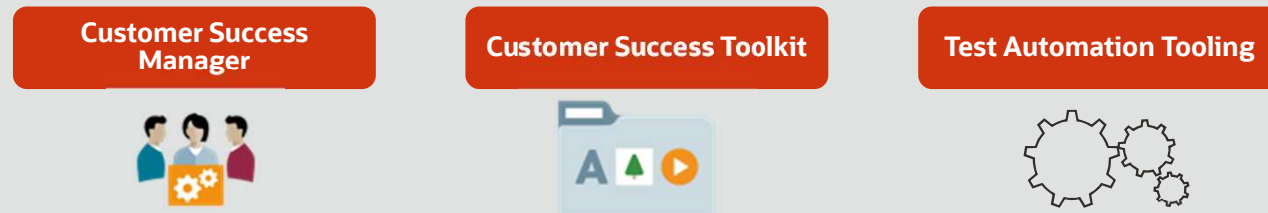
'On Trend' Best Practice Templates + Exception Based Workflows



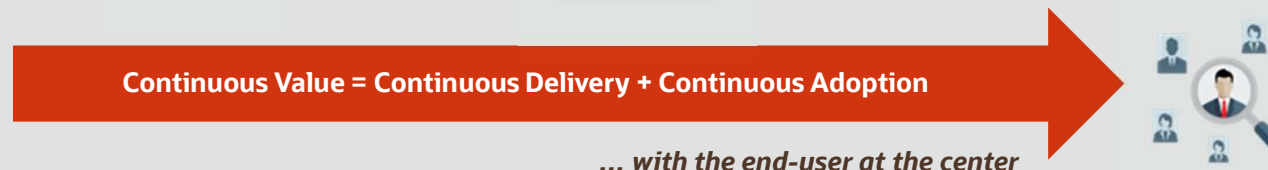
Continuous Delivery



Holistic Support



Get the Most From Your
Cloud Service



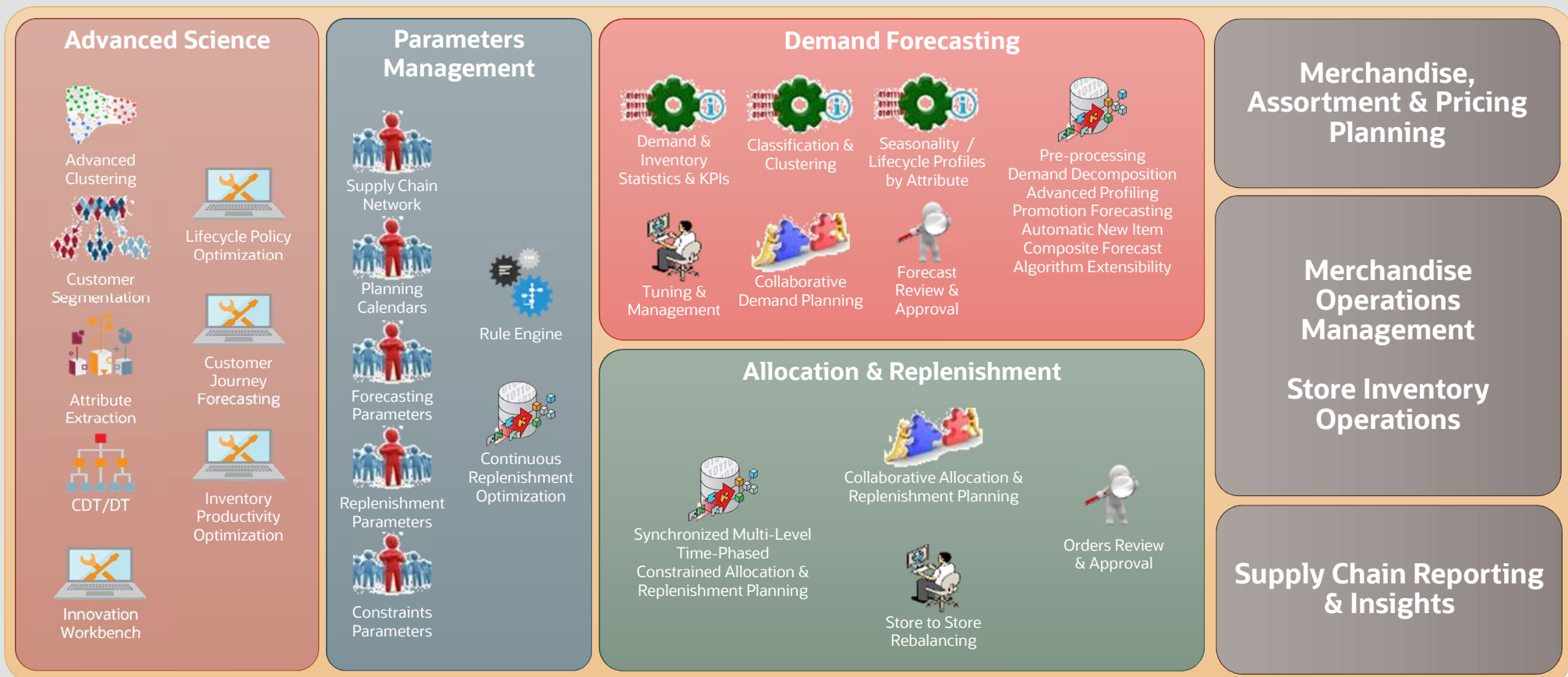
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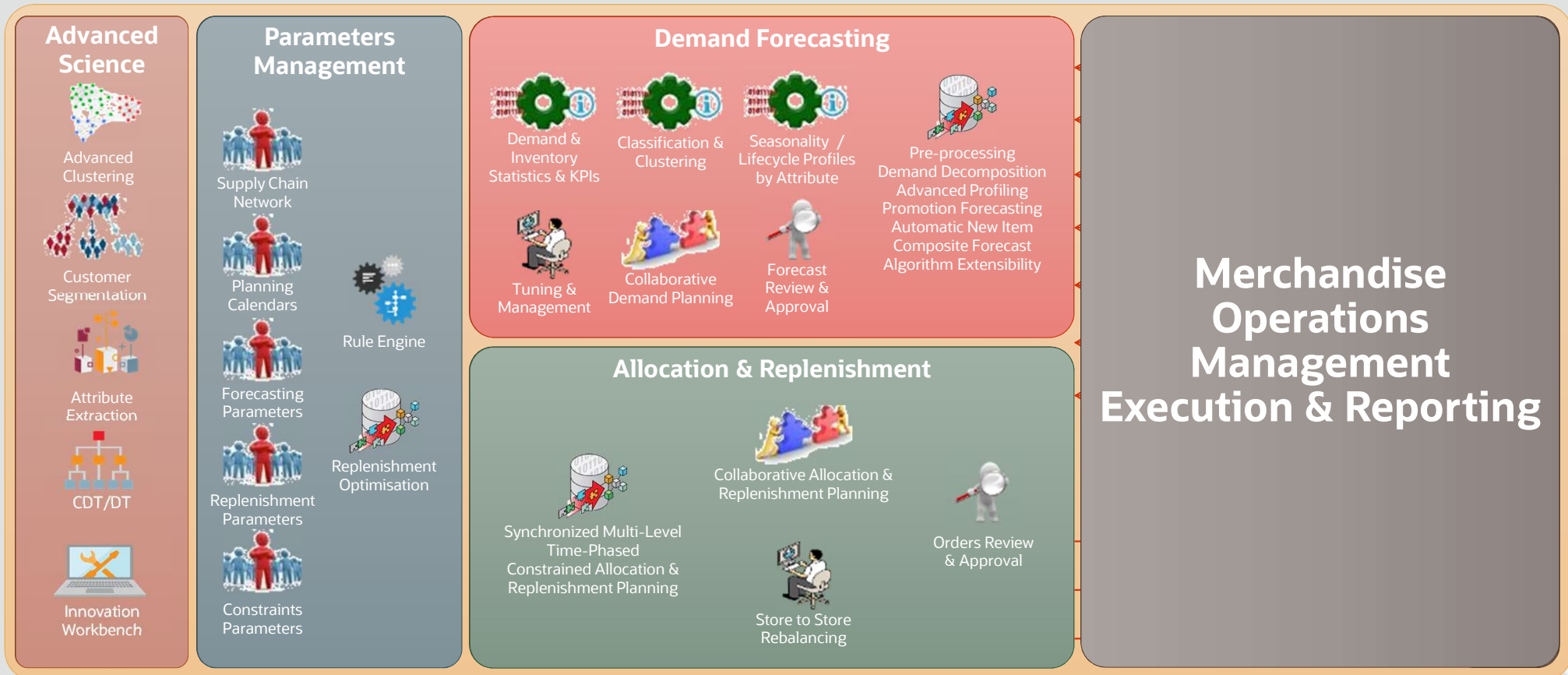
Supply Chain Planning Logical Architecture

High Level Overview



Supply Chain Planning Logical Architecture

High Level Overview



P&O / Supply Chain / Science

Release and Roadmap Candidates

Recently Launched

- Accelerate Next Practice
 - Launch of RPAS Cloud Edition
 - Merchandise Financial Planning w/ Customer Journeys
 - Assortment & Item Planning
 - Next Gen Retail Demand Forecasting
 - Retail Science Platform
 - Offer Optimization
 - Digital Assistant
 - Size Profile Science
- Tailor The Experience
 - Retail Home – Connected Workflow Focus
 - Dashboard Driven Processes
 - Contextual Launch
 - Focused & Visual Workflow
 - What-if Scenario Planning w/Parallel Workspaces
 - Evolution of Placeholder Maintenance
- Operational Agility
 - Speed to Value
 - Continuous Updates, w/ Test Automation & RLS
 - SaaS Extensibility
 - Online Administration w/ Dashboarding

12 – 24 Months

Solutions

- Next Practice Expansion
 - **Forecasting Expansion**
 - **Next Generation Allocation & Replenishment**
 - Assortment Planning Expansion (FSL / GHL)
 - KPI Modernization

Science

- Customer Strategy Planning
- **Inventory Optimization**
- Initial & Regular Price Optimization
- **Next Gen Demand Transference**
- **Evolution of Promotional Driven Halo & Cannibalization**
- Customer Specific Attribute Correlation
- AI-Enabled UI / Digital Assistant Expansion
- Space Optimization Expansion

SaaS/Platform

- **Right Time Integration Architecture**
- **Enterprise Orchestration Expansion**
- Self-Sustaining Autonomous Platform
- User Feedback Framework
- Guided Feature Introduction

24-36 Month Candidates

- Expansion of SaaS Solutions
- Continued Focus On
 - User Experience
 - SaaS / Cloud Operations
 - Integration Improvements
 - Leveraging Cloud Scalability
 - Science Research & Innovation
 - Analytics & Insights

Roadmap

Past

Planning & Optimization
Cloud Services

Retail Science Cloud
Services

Next Generation Cloud-
native Planning Platform

SaaS Continuous Delivery



Current

Next Generation Retail
Demand Forecasting

Offer Optimization Science

Size Profile Science

Customer Journey Planning

Visual Assortment Planning

Digital Assistant

Self-Sustaining SaaS



Next

Modern Retail Planning KPIs

Assortment Optimization

Fashion Sciences Expansion

Next Generation SaaS
Integration Architecture



Future

Inventory Optimization

Initial Price Optimization

Space Optimization

Next Generation Promotion-
driven Halo &
Cannibalization

AI-Enabled UI / Digital
Assistant Expansion

Solution Strategy: Supply Chain - Agenda



- A Look At Where We Have Been
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Thank You



Oracle Retail Team

