

SAP Omnichannel Planning

Jason Boyer March 7, 2019



Becoming Best Run at Planning

COMMON CHALLENGES		BEST PRACTICES
Data silos & weak integration		Unified & trusted data foundation E2E integrated process
Old spreadsheets & tools		Modern, visual, & intuitive tools
High complexity & manual effort		Simplified & a focus on higher value work
Intuition & guesswork		Intelligent recommendations & decision support
Product-centric		Customer-centric & personalized / localized
Store-centric		Omnichannel (retail, digital, & wholesale)

Intelligent + Integrated + Modular + Omnichannel Planning Process

Strategic Planning Corporate strategy Multiyear plan

Corporate targets for sales & margin

Plan headcount, capital expenditures, & expenses

Model financial statements

Merchandise **Planning**

Plan sales, receipts, markdowns, margin, inventory, open-to-buy

Plan for:

- Regions
- Channels
- · Merchandise hierarchy
- Locations
- Wholesale customers

Assortment Planning

Clustering

Plan assortment strategy / options

Determine product mix

Plan demand & buy quantities

Introduce new products

Check against merchandise plans

Execute & In-Season

Send assortment to merchandising (listing)

Buy

In-season management

Monitor open-to-buy

Allocation Management (Seasonal / Fashion)

Initial allocation

In-season fill-in

End-of-season push



Forecast demand

Consider demand influencing factors

Replenishment calculation

Inventory optimization

Multi-echelon

Exception handling

Plan All Merchandise Types with SAP

Assortment Mix

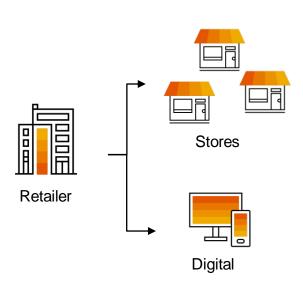
- Long product lifecycle
- Products in a category are relatively stable with limited changes
- Short lead times & usually can be replenished on short notice
- PULL-based supply chain
- Promotions drive volume & traffic



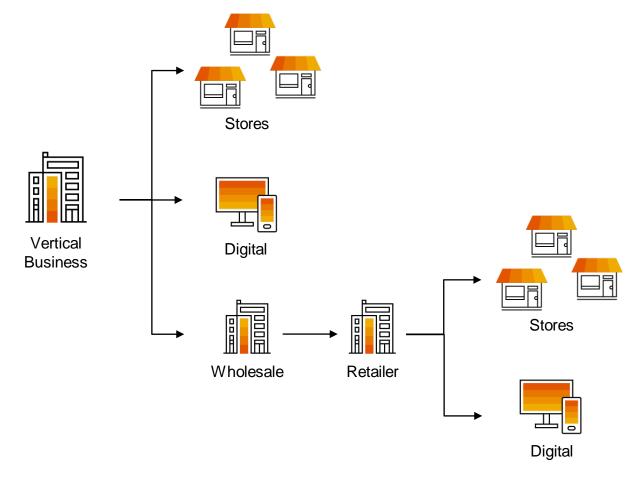
- Short product lifecycle
- Products in a category are mostly/completely replaced each season
- Long lead times are common; often one-time buys
- PUSH-based supply chain
- May calculate open-to-buy
- End-of-season markdowns make room for next season's inventory

Plan for Retail or Vertical Businesses

Retail Planning

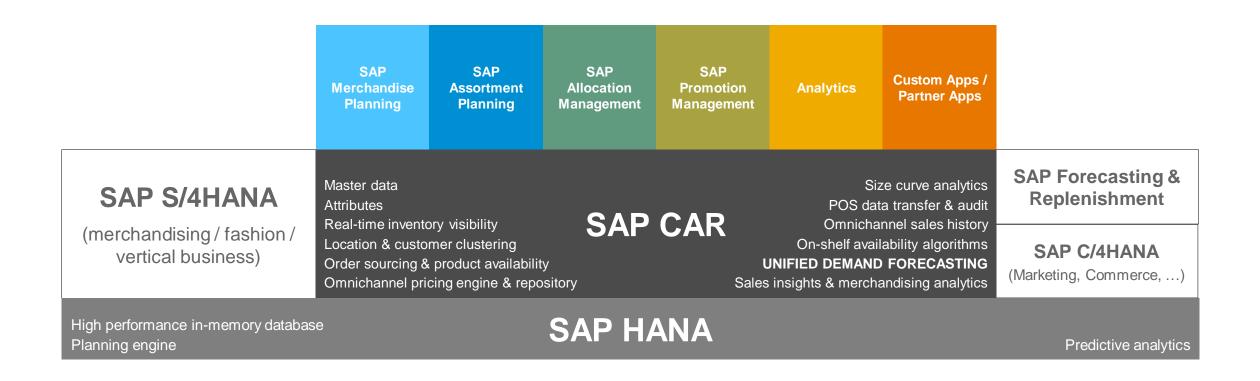


Omnichannel Planning



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Intelligent + Integrated + Modular + Omnichannel Planning Suite

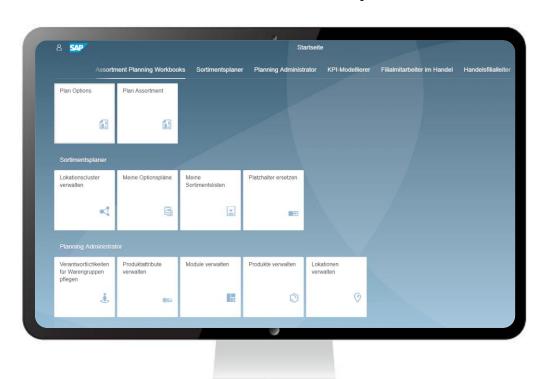


Data-Driven Planning: The Planning Data You Need is in SAP CAR

- Products
- Product hierarchy
- Market hierarchy
- Locations & clusters (warehouses, stores, wholesale customer locations)
- Attributes (products & locations)
- Wholesale customers
- Suppliers / vendors
- Sales history (omnichannel: retail, digital, & wholesale)
- Sales orders & rejections history
- Shipments & returns history
- Inventory
- Prices (retail price, promotion price, cost, wholesale sales price, MSRP)
- Images

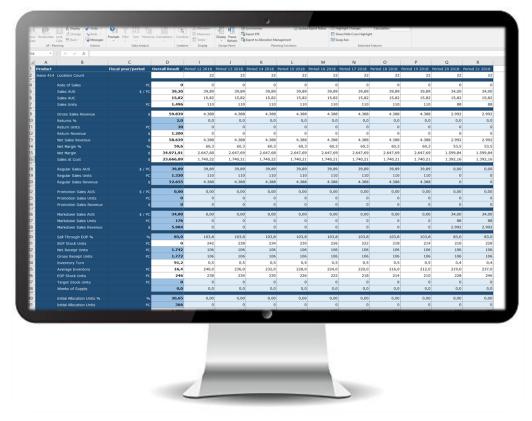
The User Experience (1/2)

Personalized launchpad



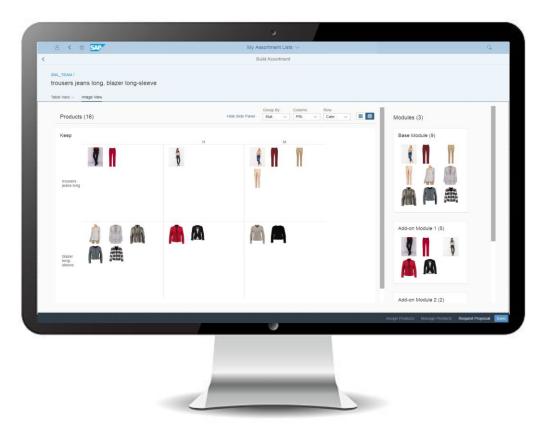


Flexible, integrated, Excel-based planning workbooks with powerful planning functions



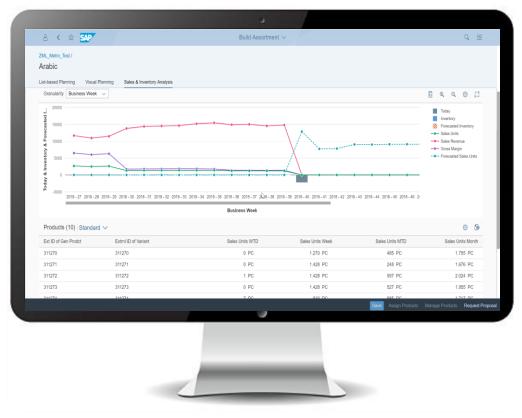
The User Experience (2/2)

Highly-visual





Embedded analytics



Gain Valuable Insights Using Reporting & Analysis Tools

Dashboard for category, key items, etc.

Category review

Trend analysis

Profitability (category, item, vendor)

Plan / Forecast vs actual

Basket / Transaction analysis

Product affinity analysis

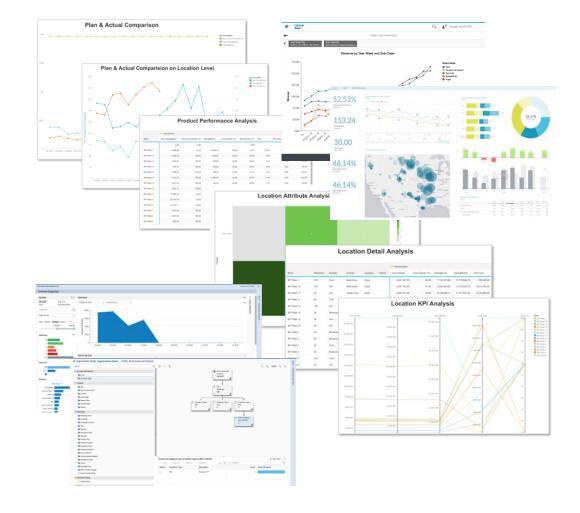
Attribute analysis

Location & location cluster analysis

Inventory analysis

Customer segment analysis*

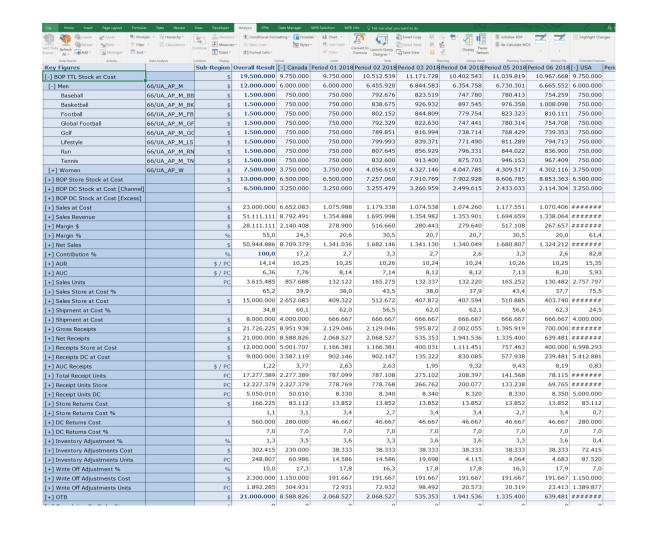
Sentiment analysis*



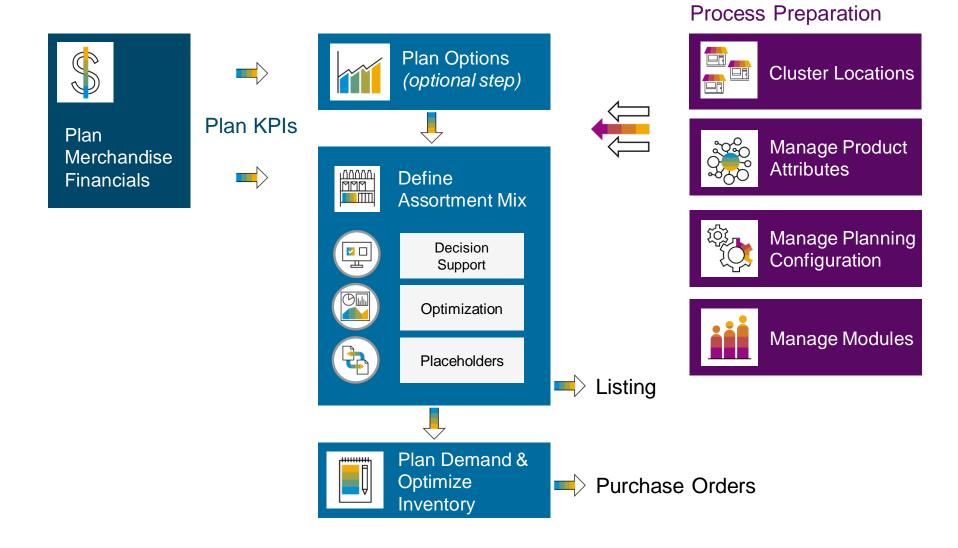
^{*} SAP Marketing Cloud

SAP Merchandise Planning Overview

- Omnichannel: retail, e-commerce, & wholesale
- Use 80+ standard KPIs or custom ones to plan sales, margin, receipts, inventory, open-to-buy, etc.
- Adopt best practice templates
- Create custom workbooks using a toolkit
- Plan multiple levels of the product hierarchy at once
- Plan top-down, bottom-up, or middle-out
- Utilize a version concept (copy, create, view multiple versions of plans)
- Set thresholds, exceptions, & alerts
- Lock cells
- Single view of plan, LY, LLY
- Control calculation order using rules of precedence
- Support multiple currencies & languages



Assortment Planning Overview



Intelligent Capabilities Within Omnichannel Planning



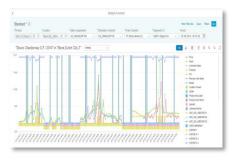
Unified Demand Forecast



Location Clustering



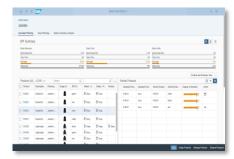
Pareto Analysis



Pre-Season Demand Decomposition & Analysis



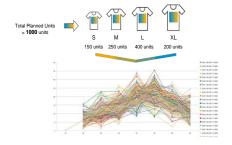
Assortment Optimization



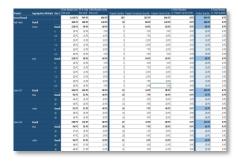
Product Similarity



Placeholder Product Matching



Dynamic Size Curves



Pre-Pack Optimization



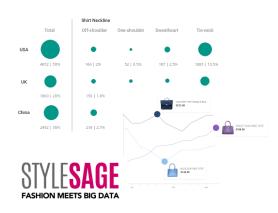
In-Season Demand & Inventory Analysis

Planning Innovation Examples









Product & Customer Experience Management

Collect feedback directly from consumers about products and customer experience

Combine X Data + O Data for better insights

adidas: Color Trend Analysis

Detect global / local trends & top colors

Multiple external data sources

Analyze image color & color clustering

Forecast demand with machine learning

Assortment Optimization & Google Shopping

Send a planned assortment mix to Google Shopping

Google returns product popularity rankings for similar products

Decide to add, swap, or ignore product suggestions

Provide more relevant assortments

SAP.iO & Style Sage: Strategic Analytics & Al

SAP.iO = SAP's global network of top-tier startup programs

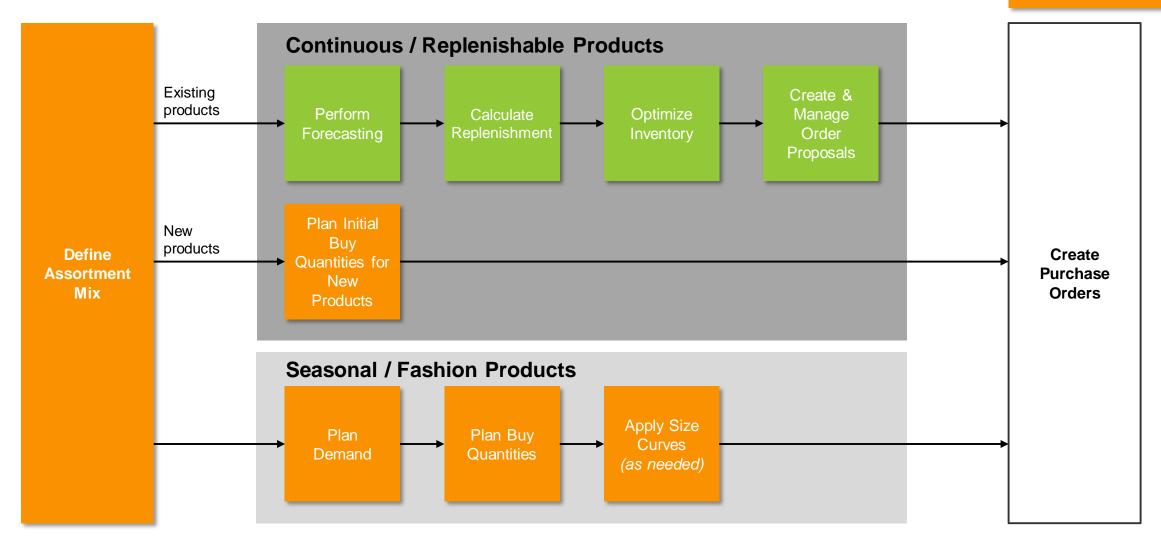
Cloud-based strategic analytics & Al platform for fashion retailers and brands making pre-/in-season decisions

Assortment analytics, competitor pricing intel, trend analysis, & more

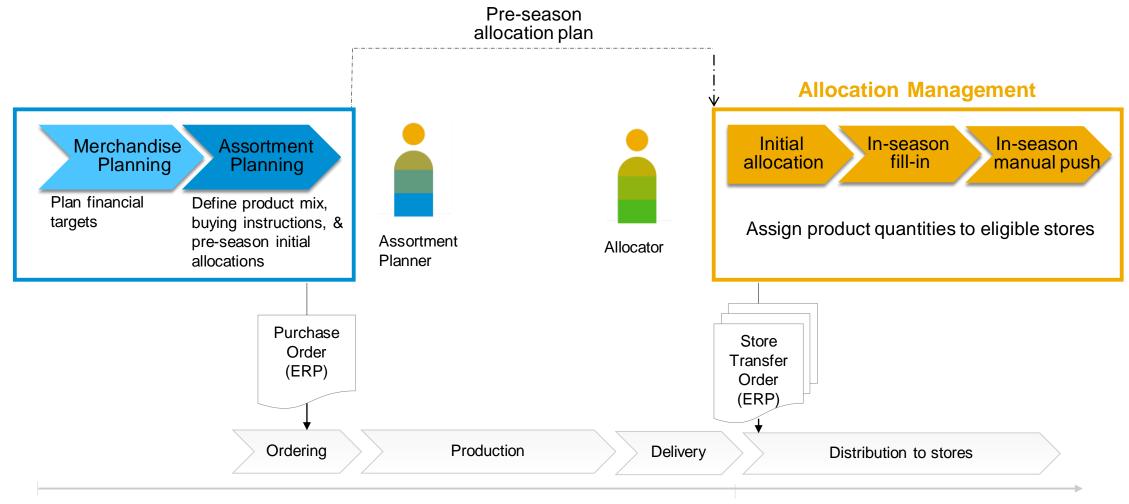
Demand & Buy Planning for All Merchandise Types

SAP Forecasting & Replenishment

SAP Assortment Planning



Omnichannel Planning & Allocation Management Working Together



Time of purchased goods arrival

time [weeks/months]



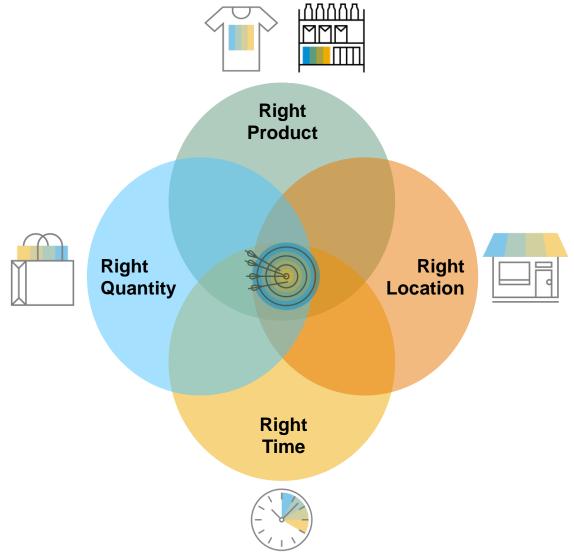








What Planning is All About



Improving Performance with Omnichannel Planning



STRATEGIC PRIORITIES	KPIs	HOW
Increase revenue	SalesInventory turnsTransaction size	 Better customer insight for customer-centric decisions Relevant assortments drive more sales, increased transaction size Better inventory flow
Increase margin	GMROIMarkdown %	 Better forecasting means less over-/under-buying More products sell for full price Improved visibility
Efficiency / Speed / Control Spending	 Time to plan Time to intelligently cluster stores Actual spend vs OTB budget 	 Faster process steps, such as, store clustering Integrated retail planning process Unified data foundation Simple, powerful tools for greater user efficiency Monitor OTB spend (plan v actuals)
Customer satisfaction / Loyalty	Purchase frequencyRetention rateMarket basket size increase	Relevant assortmentsMore seasons / collections

What You Get with SAP

NEXT-GENERATION PLANNING

Cutting-edge enterprise tech. Top planning architecture. Plan all channels. Future ready.

- ULTRAFAST PROCESSING
 - No batches. Rapid clustering & simulations. Real-time analysis.
- UNIFIED PLANNING PLATFORM & INTEGRATED PROCESS

A single data, planning, predictive, & analytics platform. Single version of the truth.

- CONSUMER-GRADE USER EXPERIENCE
 - Award-winning. Consumer-grade simplicity. Enterprise-grade power & flexibility. Visual.
- INTELLIGENT
 - Predict & optimize. Balance the art & science.

BEST PRACTICES

Start with best practice and tailor, as needed (not just a toolkit). Be best run. Deploy fast.

FLEXIBILITY

Customize views & capabilities for unique needs. Keep "secret sauce" planning methods.

BEST-OF-BREED OR INTEGRATED SUITE

Integrated but modular planning suite. E2E process integration from planning to execution.

MANAGE COMPLEXITY

Automate & manage by exception. Tech, tools, & rules provide a simplifying framework.



When can we show you omnichannel planning in more detail?

Thank you.

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