



May 7 – 9, 2019

About the Speakers

Suraj Pabbathi

- Lead IT SAP Program Analyst, BJ's Wholesale Club Inc.
- 15 Years of experience
- Technical Areas: SAP ABAP, PI, CPI, BODS, SLT, Fiori, Hana Modeling, Solution Manager
- Functional Areas: POSDTA, UDF
- Founder and President of People For India Inc. (Non-Profit Organization)

Sherri Courtney

- Lead IT SAP Program Analyst, BJ's Wholesale Club Inc.
- 25+ Years of Retail Experience
- Technical Areas: SAP IS-Retail, ARIS, PMR, TCxVector
- Functional Areas: Master Data, Pricing, Promotions, External Integration
- Avid rock collector



Agenda

- ✓ BJ's at a Glance
- ✓ BJ's CAR Platform
- ✓ BJ's Innovation Journey
 - POSDTA
 - ✓ PMR
 - UDF



BJ's at a Glance

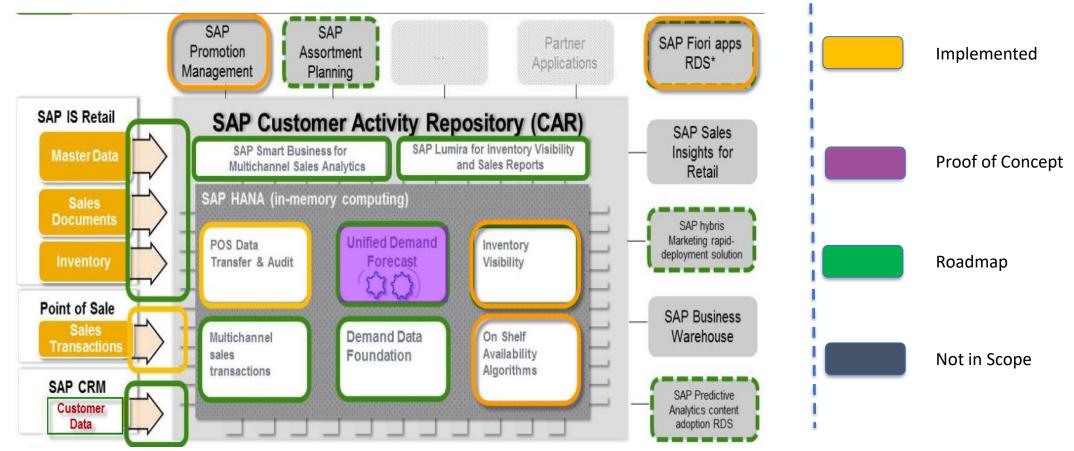
- 217 CLUBS IN 16 STATES FROM MAINE TO FLORIDA
- 135 gas stations
- 5.3 million members
- 25,000 employees
- Assortment variety of grocery items including fresh meat, produce and private brands – Wellsley Farms and Berkley Jensen
- Other service options include **Travel**, **Cellular and Optical**
- Increased Digital Presence to offer strong engagement with our members



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Bis cap patent in the SAP retail roadmap...the data framework for advanced

SAP retail planning engines



CARAB stands for CAR Application Bundle Assortment Planning, Merchandise Planning, Promotion Planning, Allocation Planning Installed as Bundle, can implement the products separately.

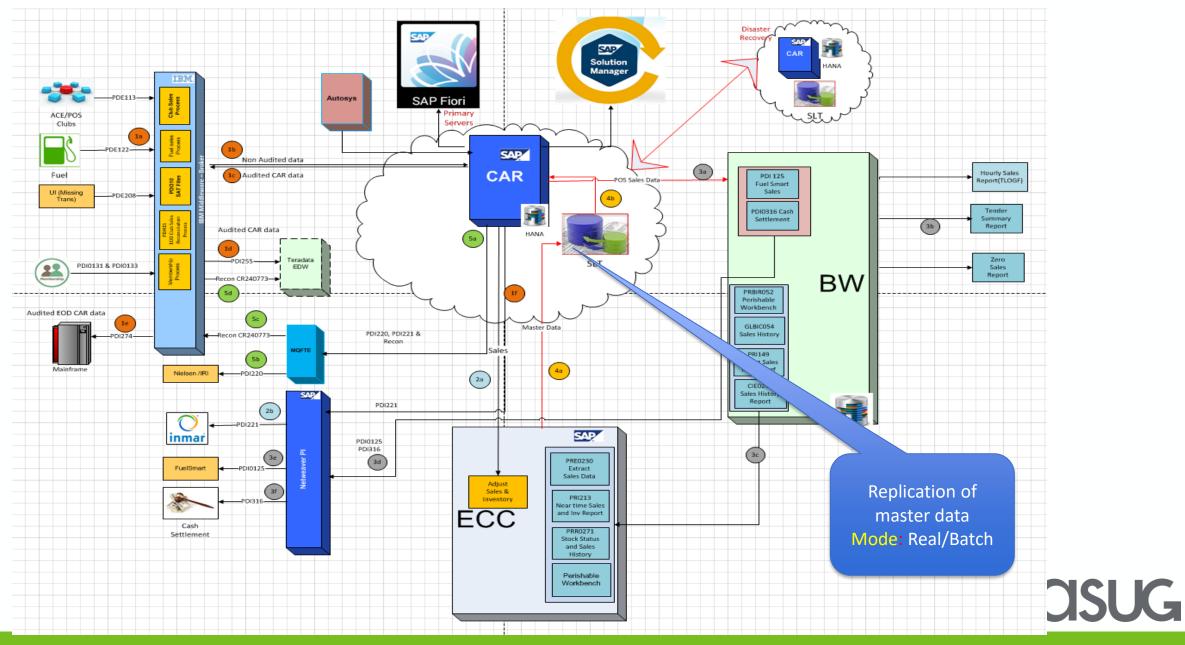
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Unified Demand H HANA ✓ Modeling with Decomposition ✓ Forecasting based on DIF's ✓ Snow-1 ✓ Temperature ✓ Holiday Events ✓ What if Scenarios ✓ Promotions ✓ Weather – Temperature/Snow ISI K,

Planning

CAR - POSDTA – Point of Sale Data Transfer and Auditing



Fiori Apps

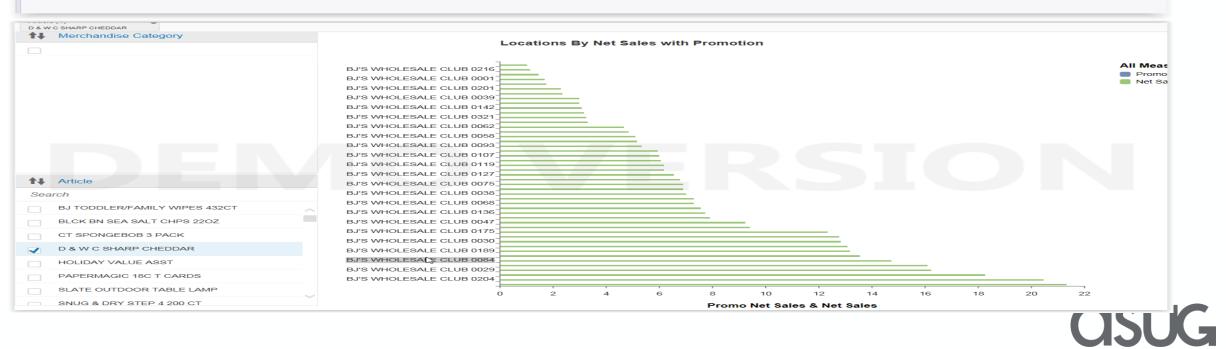
CAR Sales Reporting

Net Sales Net Sales Evaluation	Gross Margin Gross Margin Evalu	Average Items Per Transaction Items Per Transactio	Number Of Transactions Number Of Transacti	Average Transaction Value Average Transaction
73 ⋒	31 ^	7*	11 ™	72 *



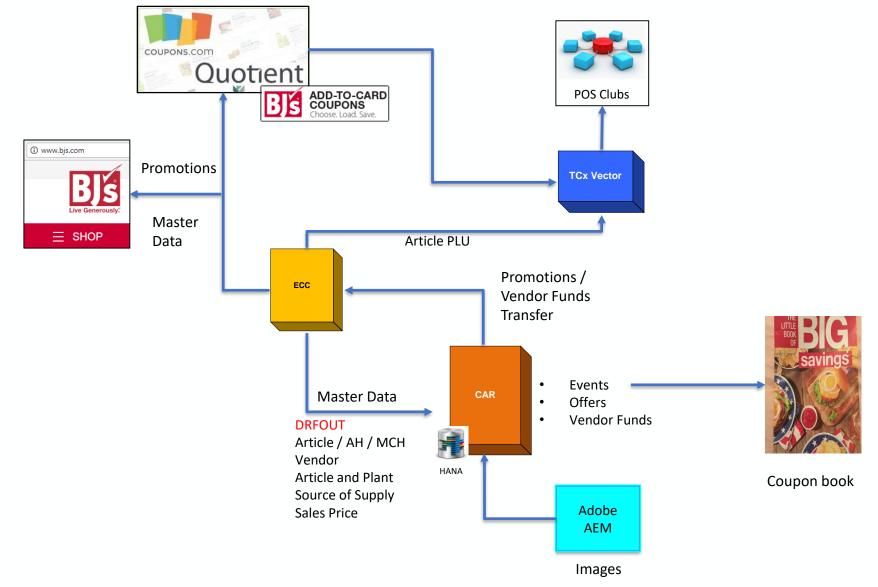
Lumira Reports

Title *	Type Description	Date Modified
Forecast Accuracy	Lumira Document	Apr 26, 2017 10:08 PM
5 Intraday Forecast	Lumira Document	May 9, 2017 8:54 PM
Inventory Visibility Report by Store	Lumira Document	May 9, 2017 8:49 PM
On-Shelf Availability Report	Lumira Document	Jan 22, 2018 8:48 AM
POS Sales Report	Lumira Document	Jun 13, 2017 2:31 PM
Product Affinity Analysis	Lumira Document	May 9, 2017 8:57 PM
Regional Manager Overview Board	Lumira Document	May 9, 2017 8:59 PM
🔓 Rolling Gross Margin	Lumira Document	May 9, 2017 9:00 PM



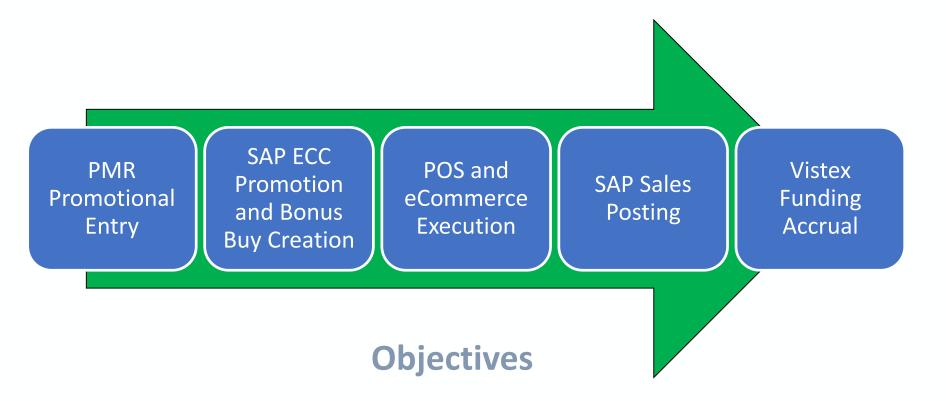
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CAR - PMR Execution (Promotion Management for Retail)



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PMR Business Process and Objectives



- More efficient and controlled promotional planning cycle
- Effective financial analysis of offers and events
- Accurate promotional execution through accountability and visibility
- Integration with Vistex
- Future automated forecasting capability with UDF (Currently in POC)



PMR Promotion Objects

Events



Offers

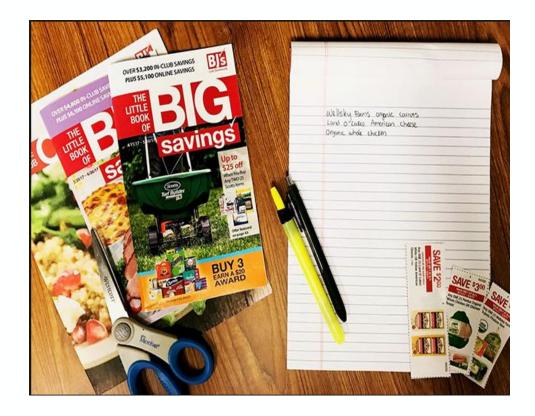


Print Templates



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Event Types in SAP



- Big Brand Mailer
- Front of Club
- Demos
- Displays
- Unadvertised Events



Event Implementation

Multiple Event Types

- ➡ Print Vehicle Events
- Unadvertised Events

Multiple Approval Levels – View and evaluate the financials of events/offers

- Use Open Partitions to simulate the highest level merchandising approval process
- Use Area Definitions to simulate the lower level merchandising approval process

Print Templates

- ➡ Block Templates for Offers for both print and in-club signage
- ➡ Area Templates for Pages

Desktop Publishing Integration

- ⇒ Standard Output used for external integration
- ➡ Custom Pagination Report for Marketing team
- ➡ Image Integration with Adobe AEM

Print Templates

Block Templates

- Used for printed advertisements and in-club signage
- Only one template can be assigned per offer
- Template contains boxes which are defined with data contained in the offer
- Must be careful about the box numbering as PMR does not allow a "description" for a box in the extract
- Low resolution images can be added as attributes and the image URL is provided in the extract
- Content templates are not used at BJ's

Offer ID Offer Name Transition State 2 ATC - Quaker Start (CW, Date, Time) 18, 05/04/2018, 00:00:00 000581 Calculated Margin Projection 8.50- Sales Organization 1000 Distribution Channel 1 Last Changed On 04/26/2018 09:02:58 09:02:58 1000 0000 0000	End (CW, Date, Time) 18, 05/04/2018, 23:59:59 Calculated Unit Projection 500 Calculated 5 0 Currency USD Tactic Type : Tactic Print :BBM ; Reference Event ID
000581 Calculated Margin Projection 8.50- Sales Organization 1000 Distribution Channel 1	0 Currency USD Tactic Type : Tactic Print :BBM ; Reference Event ID Current Assignment Box ID 9 Attribute Type Free Text Attribute Open Language Allow Override Enforce Style Enforce Style Block Group Box ID: 0 Attribute Value: Add Special Symbol Clear Image Change Attribute Value Add Special Symbol Clear Image \$2.25 May 4, 2018 May 4, 2018
	Transition State 2 ATC - Wellsley Farms



Print Templates

Area Templates

- □ Used for printed advertisements
- Block Templates are assigned to specific page layouts (Areas)
- Provides a visual of the page including chosen images
- Works very well for ads that are consistent in structure
- Pagination is made more difficult if using print coupons with barcodes
- Custom report was created for BJ's marketing team to be able to apply block templates due to the fluid nature of our print books

\$7.00	\$3.00	\$2.00
March 15 2018 April 11 2018	March 15 2018 April 4, 2018	March 15 2018 April 4, 2018
Green Mountain Coffee K-Cup Pods	Ocean Spray Craisins, 48 oz., OR Reduced Sugar Craisins, 43 oz.	(1) Land O'Lakes Salted OR Unsalted Butter Quarters, 3 pk./1 lb.
Producti© Producti© Product IO	11103 27120 ProductID Product ID	24559 24659



Offer Types in SAP





-3.00

\$16.99

Off at Register

YOUR PRICE

- Paper Coupons
- Clipless Coupons
- Demos
- Displays
- Free Shipping
- Instant Savings
- Everyday Savings



Offer Implementation

Promotion Type Definition drives functional and redemption definitions

- Promotion Type defines redemption method paper coupon, clipless coupon, digital coupon
- Promotion Type defines usage within POS award at product scan or award at total time (offer requires total basket evaluation for award)
- February 2019 rolled out full promotional capability to Club POS system with Toshiba TCxVector integration

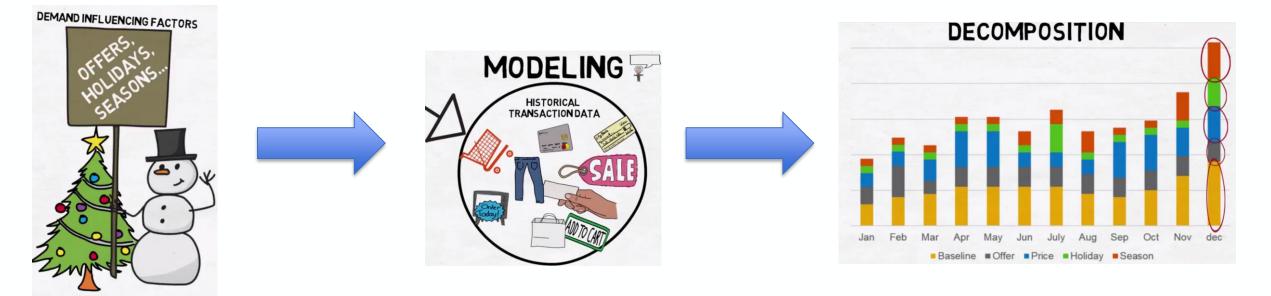
Standard PMR and ECC promotion definitions used for external integration

➡ Using standard offer transfer to create standard promotional constructs in ECC with minimal enhancements (customer type, promotion description)

Integration with 3rd party Vistex tool for promotional vendor funding

Custom integration with Vistex tool (SAP standard integration is with Condition Contracts

CAR – Unified Demand Forecasting



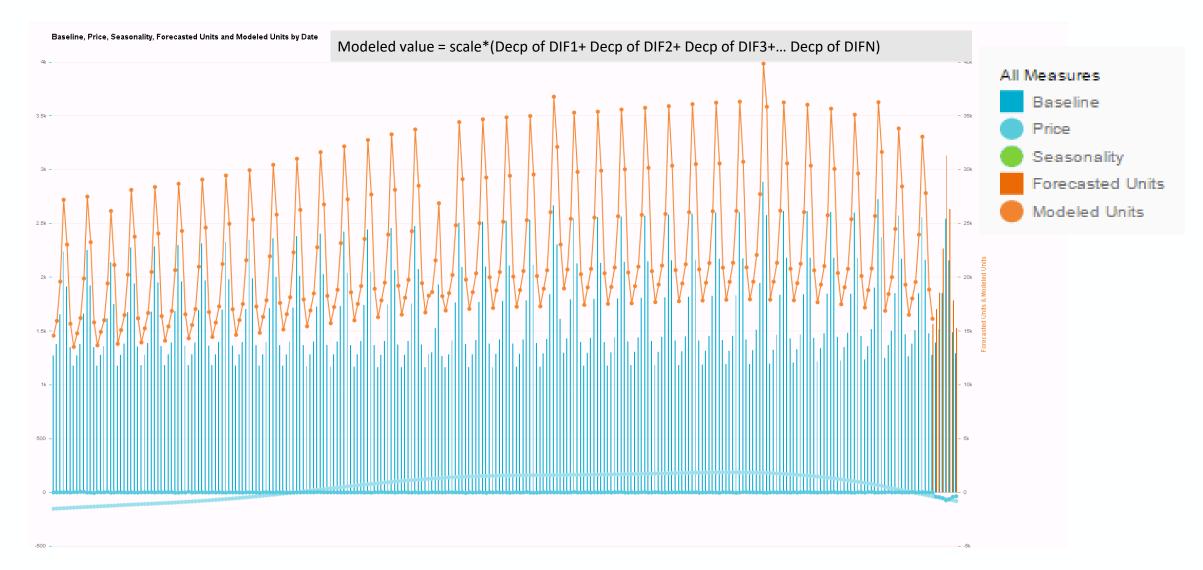
Others

- ✓ Temperature
- ✓ Snow Days
- ✓ Snow Day -1

TAKING THE HISTORICAL DEMAND DATA PROVIDED AS INPUT, UDF TRIES TO EXPLAIN THE HISTORICAL SALES AND THE IMPACT THAT EACH DEMAND INFLUENCING FACTOR HAD ON CONSUMER DEMAND IN THE PAST.

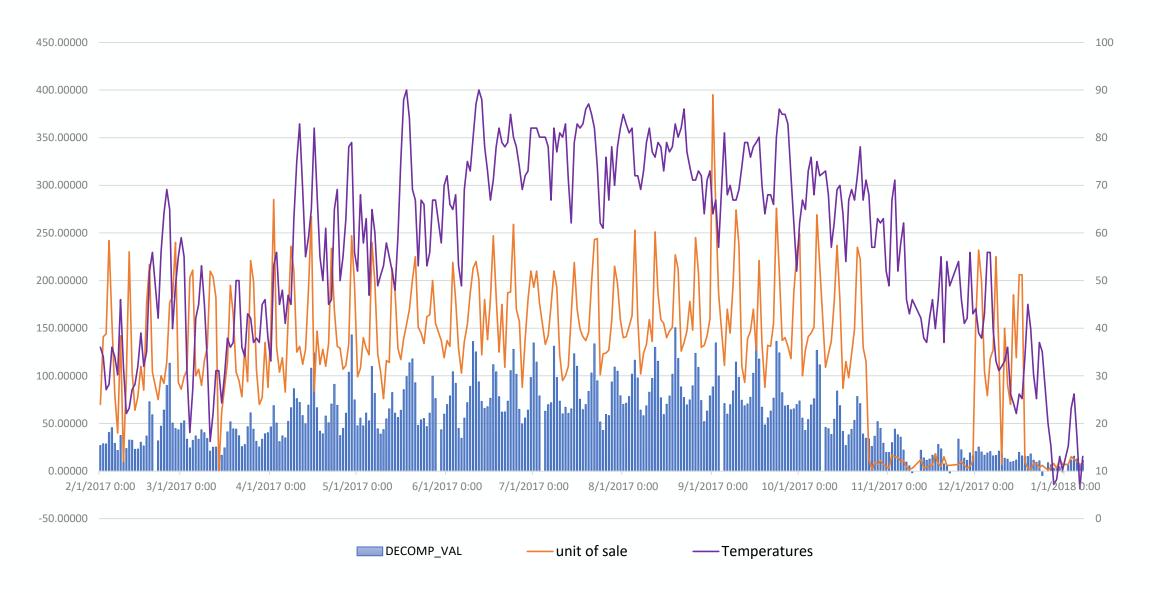


Decomposition based on DIFs for Spring Water using LUMIRA





Influence of Temperature (user DIF) on Spring Water





Opportunity

□ Set up forecasting engine and enable PMR to forecast Sales Units for each offer

□ While creating an offer, System does forecast and decompose as follows

- ✓ Base Units
- \checkmark Seasonality
- \checkmark Holidays
- ✓ Promotional Lift
 - ✓ Price
 - ✓ Tactic Type
- □ Forecast allocation by Club



Understanding the History

BERKLEY JENSEN DENIM JEANS

• Articles

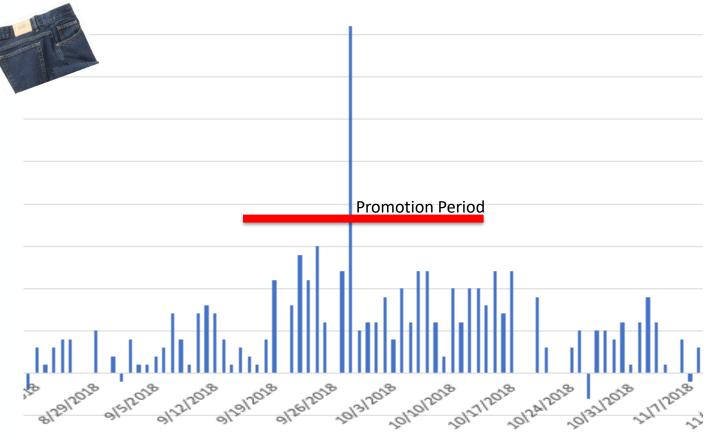
10062001 to 10062082

(All Sizes of Dark stone, Stone Wash)

Increase in sales revenue during Sep and October due to a promotion

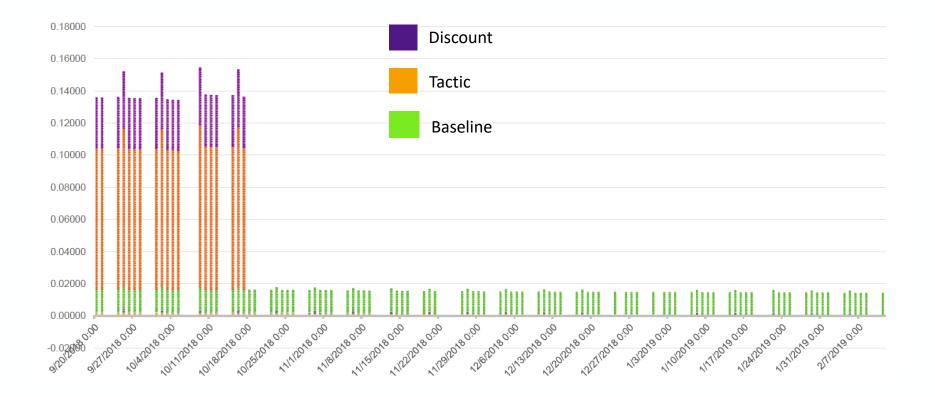
Sep 20th to Oct 17th

- Promotion Name: BBM_BUY1_BJDENIM_SAVE\$2
- Promotion Type: Clipless
- Tactic: BBM
- Clubs 101 (Dedham)



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Model Decomposition





Forecast Allocation by Article/Club

							Update User Projection Based on System Forecast					
									Ē	Decomposition	System Fo	User
										Baseline Units	64	6
ffer ID		e FY19_BBM_BUY1_B ulated Sales Projection	9_BBM_BUY1_BJBOTTOMS_SAVE\$2 Start (CW, Date, Time) 07, 02/18/2019, 00:00:0 Sales Projection 929.95 Calculated Profit Projection 110,91 Calculated Margii							Base Demand Units	65	6
Distribution Channel 10			0 Currency USD Tactic Type : Tactic Print :BBM ;						Seasonality Units	0		
Last Changed By SAPMAX02 Last Changed On 02/15/2019 15:22:29					Holiday Units	0						
Properties Vers	sions Attr	ibutes Financials	Offer Pre	view Ve	ndor Fund					Other	0	
		Offer Version N			DIROTTOM		Enfo	ree Multiple:		User DIF	0	
	Offer Version Name: FY19_BBM_BUY1_BJBOTTOMS_SAVE\$2 Enforce Multiple Offer Version Description: FY19_BBM_BUY1_BJBOTTOMS_SAVE\$2 Promotion Type							Promotional Lift	14			
Location Hierarc	hy						Тг	ansfer Date:		Price Units	2	
Versions _ Location	n _	Offer Versio	n ID: 40005	81 nt Value:		0.0		romotion ID:		Tactic Units	7	
Projections _				it value.		0.0	Offer V	/ersion Dates		Offer Type Units	4	
Location Versi	Offer Version	Term Construction View: System Forecast View: Append Term Insert Term Delete Term / Incentive F							Reward Incentives	0		
	Count	View: System Forec	ast ⊻	Append Te	erm insert	Term De	lete Term / Ir	icentive R		Cannibalization	0	
▼ TEST-0075	1									Total	78	ī
0101		Operator Typ	n Quantity	Product Dimension Type	Product Dimension	Discount Type	Promoted UoM		Disco Value			
		В	1	Prod 👻	BERKLET	Di 🗸	EA	78	2	00		
01 (<mark>Dedham</mark>)		В	r 1	Prod 👻	BERKLEY	Di 👻	EA	37				
38 (Brooklyn)		В	r 1	Prod Y	BERKLEY	Di 👻	EA	41				



CAR2.0: Value for the BJ's Team

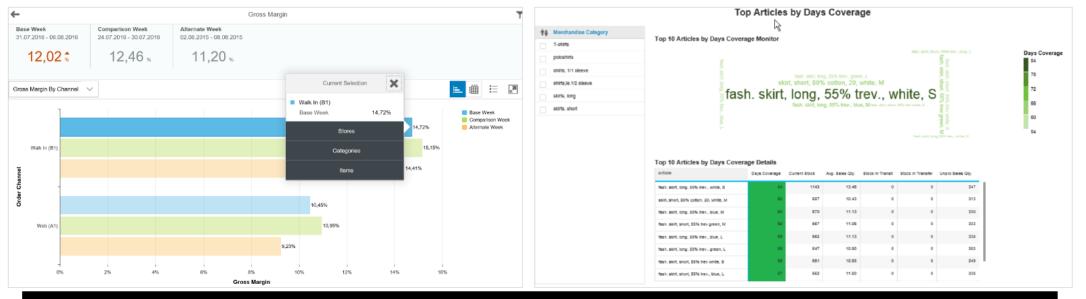
RDS Out-of-the-box Capabilities

Merchants get

- "Drill down capability for Sales and Margin" analysis with exception-indicator available on Fiori-tile
- "Slice and dice capabilities for Sales and Inventory" analysis to identify root causes (with Lumira)
- Better preparation for vendor negotiations / meetings

Supply Chain planners get

- "Real-time visibility" of inventory and sales data, including current sales across stores (Lumira, Fiori)
- "Intra-day real-time" sales and inventory levels (Lumira, Fiori)
- "Promotion related sales" (based on POS feed on promotion) (Lumira)



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CAR2.0: RDS Out-of-the-box Capabilities**

FIORI Apps

- Net Sales
- Gross Margin
- Number of transactions
- Average Transaction Value
- Items per transaction

Lumira Reports

- POS Sales Reports (Promotion reports based on promotion information contained in TLOGs)
 - Top / Low Performing Articles
 - POS Returns Report
 - POS Sales by Stores
 - POS Sales and Promotion by day
 - POS Sales and Promotions Overview by hour (OSA needs to be setup)
 - POS Promotions Analysis
 - POS Hourly Promotion Details
 - Traffic Analysis
 - POS Details Report

Lumira reports (continued)

- Regional Manager
 - Net Sales by Region
 - Stores Ranked by Net Sales and Gross Margin
 - Top 5 merchandise categories by net sales and gross margin
 - Net sales by Channel
- Gross Margin
 - Top net sales with gross margin %
 - Gross margin details report
- Inventory Visibility Report by Store
 - Bottom Articles by Days Coverage
 - Top Articles by Days Coverage
 - Inventory Totals Details

** Requires configuration, data loading and setup; see project activities

Minimum requirements for CARAB

These the minimum requires software version for CARAB 2.0

- SAP CARAB 2.0 SP01
- SAP NetWeaver 7.5 SPS06
- SAP HANA
- SAP SLT 2.0 SP12
- SAP HANA Live for ERP (HBA SAP ECC) 1.0 SP10
- SAP FIORI For CARAB –
- SAP Lumira



Smart Business Apps

- SAP Smart Business is a framework for visualizing analytic content in the form of charts and tiles.
- KPIs can be visualized as SAP Fiori applications without writing any code. A Smart Business application is full-screen dashboard application that can visualize the KPI data in different perspectives along with associated KPI's.



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Presentation Materials

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For questions after this session, contact us at [email] and scourtney@bjs.com.



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