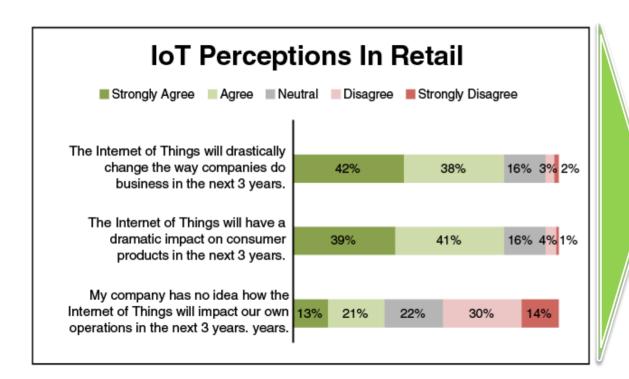
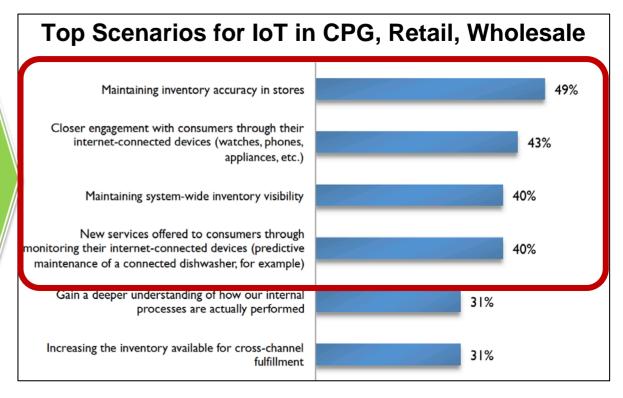


Market Perspective: 2015 Analyst Survey says IoT will transform Retail...





Source: RSR IoT in Retail Survey August 2015 138 Respondents in August 2015, between 50M and 5B USD in revenue.

Retail Systems Research (RSR) is the only research company run by retailers for the retail industry. RSR provides insight into business and technology challenges facing the extended retail industry, and thought leadership and advice on navigating these challenges for specific companies and the industry at large.

SAP's Vision for the Digital Store

Connecting Commerce where it touches the consumer

Intelligent Marketing

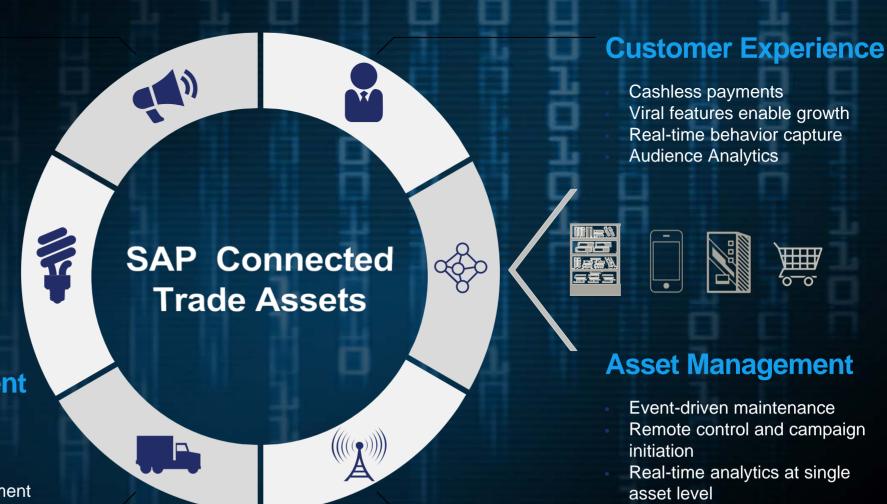
- 1:1 customer targeting
- Detailed market segmentation
- Portfolio optimization

Optimized Operation

- Fleet Analytics
- Demand based pricing
- Predictive Planogram Optimization
- Forward-looking analytics

Supply Chain Management

- Real Time Inventory
- Dynamic truck routing
- Customized product mix by location
- Machine-initiated inventory replenishment



...and what it means to You







Personalized and Relevant Products



Accelerating the pace of Innovation



Resilient and flexible value chains



Efficient Servicing of Point of Sale Locations

What are the winners doing differently?
How will digitization accelerate competitive advantage?

Hyper Connectivity is here



People



Communities



Sensors

New Digital Business Opportunities



Consumer Moments (B2C)



Customer Moments (B2B)



Market Moments (B2B2C)

What efficiencies can Digital Store address?











Consumer profiling

Targeted marketing using sensors

Product identification technology

Effective price tool for customers

Advanced trendspotting

Scope

MORE TARGETED COMMUNICATION?

LEVERAGING "SMART" IN RETAIL

PREVENT OUT OF STOCK AND BRING EFFICIENCIES IN DISTRIBUTION















HOW TO
INTERACT WITH
CONSUMER &
RETAILERS?

HOW CAN
DYNAMIC BRAND
STAGING AND
PRICING IMPACT
OUR BUSINESS?

HOW CAN
VENDING IMPACT
YOUR CURRENT
BUSINESS
MODEL?

...BEST PRACTICE

Scope

AGE AND GENDER **DETECTION**



PROXIMITY MARKETING



NFC TAGS



VIRTUAL PLANOGRAM

ELECTRONIC **PUSHERS**



INTERACTIVE VENDING



...BEST PRACTICE

Consumer Journey and Operational Excellence

PRE-PURCHASE





POS









Post-Purchase





NFC TAGS

IoT Enabled Digital Transformation Platform











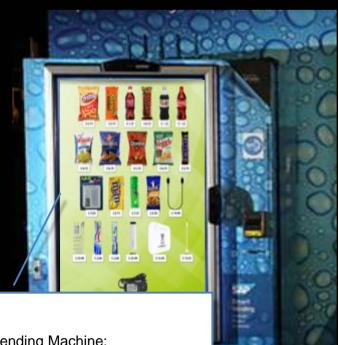






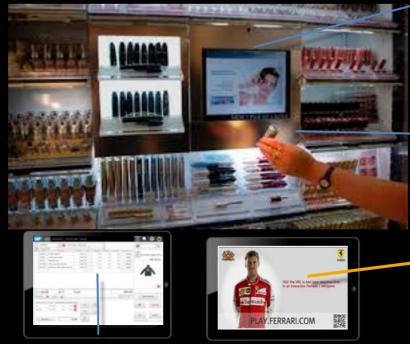
IOT-enabled E-Commerce, Digital Economy Backbone.

DigiStore Detailed Vision



Vending Machine:

Vending Machine with different Planograms based on time of day Morning: Premium Brands, Lunch, other brands



POS:

- Real time Inventory
- POS with EAN bar code scan and payment transaction
- POS will display Quantity in Shelf and machine as well as reorder button on low stock

Audience Detection:

Camera will be mounted on top of LCD Displays.

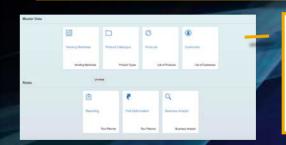
Camera will capture Audience gender, age and trigger different mood videos on LCD screens.

Smart Shelf:

Trays will be equipped with sensors and report product removal and remaining quantity to backend

Consumer Display (PC with Display, Identical to Game on Vending Machine scenario)

- Scan QR code
- Accept T&C
- Play Video, Game, Video (Win, Iose)
- Capture consumer details to receive voucher



CTA Backend ties everything together: Reporting, Alerts, Triggers, Optimization, OP Integration



DigiStore Detailed Capabilities

Vending Machine:

Vending Machine with different Planograms based on time of day Morning: Premium Brands, Lunch, other brands



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POS with EAN bar code scan and payment

as well as reorder button on low stock



Connected Coffee











Scenarios:

- Detect patterns in machine and historic data (service tickets, counters, error messages) and gain insight to further enhance maintenance intervals, parts used, etc.
- ✓ Role Based internal and external Dashboards that provide full and real time insight into the machine fleet both on operational and transactional data.
- ✓ Monitor material inventory and trigger daily visit and routing optimization to only visit machines that are low on stock in the shortest route.
- Enable direct consumer engagement on nextgen Display machines

Connected Trade Assets – Examples



WeissBeerger applies analytics to the beer tap with **providing** insight into consumption patterns.



The desire to gain a deeper understanding of its customers, and manage complex buying processes triggered a transformation at Nespresso.



Tennant used CTA concepts to move from a sales to a service based business model.

End to End Architecture

- **Monitor**
- Connect

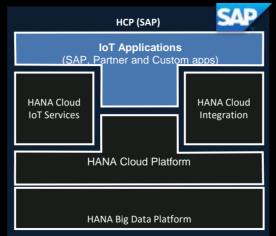
Trade Asset

Consumers

SAP IoT Hardware partners (SAP is HW agnostic)



- Collect
- Consolidate
- **Automate**



Social

- Visualize
- Analyze
- Optimize



Asset Alerts

Work Orders.



Retail Execution



Work Manager

Execute

Transform

Plan



CRM Service Manager



Rounds Manager

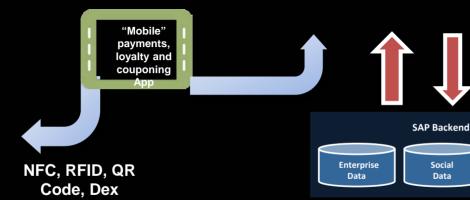


Other Enterprise apps



- ✓ Configuration & Customization
- ✓ User Defined Alerts
- ✓ Analytics

Public





Analytics





Master Data







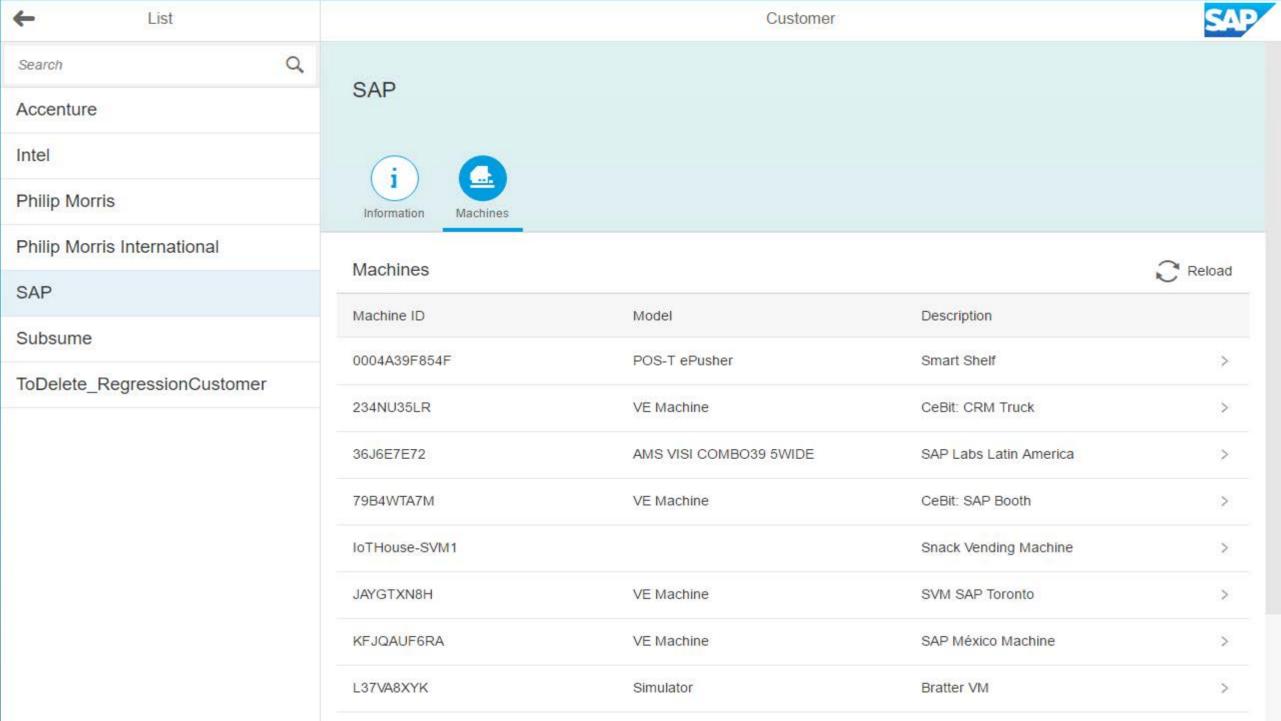


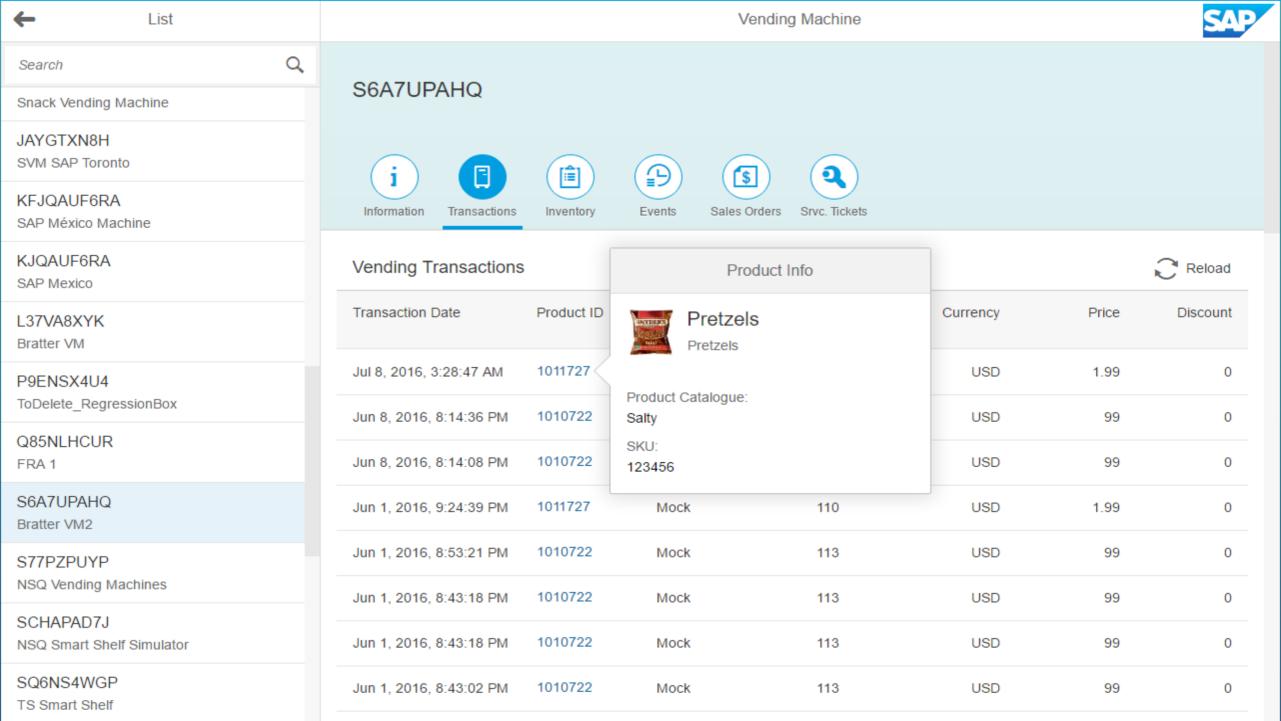
Roles











Periodic Sales Report



Periodic Sales

Inventory Status by Network

Inventory Status by Machine

Sales Overview Week over Week

Sales Detailed Analysis

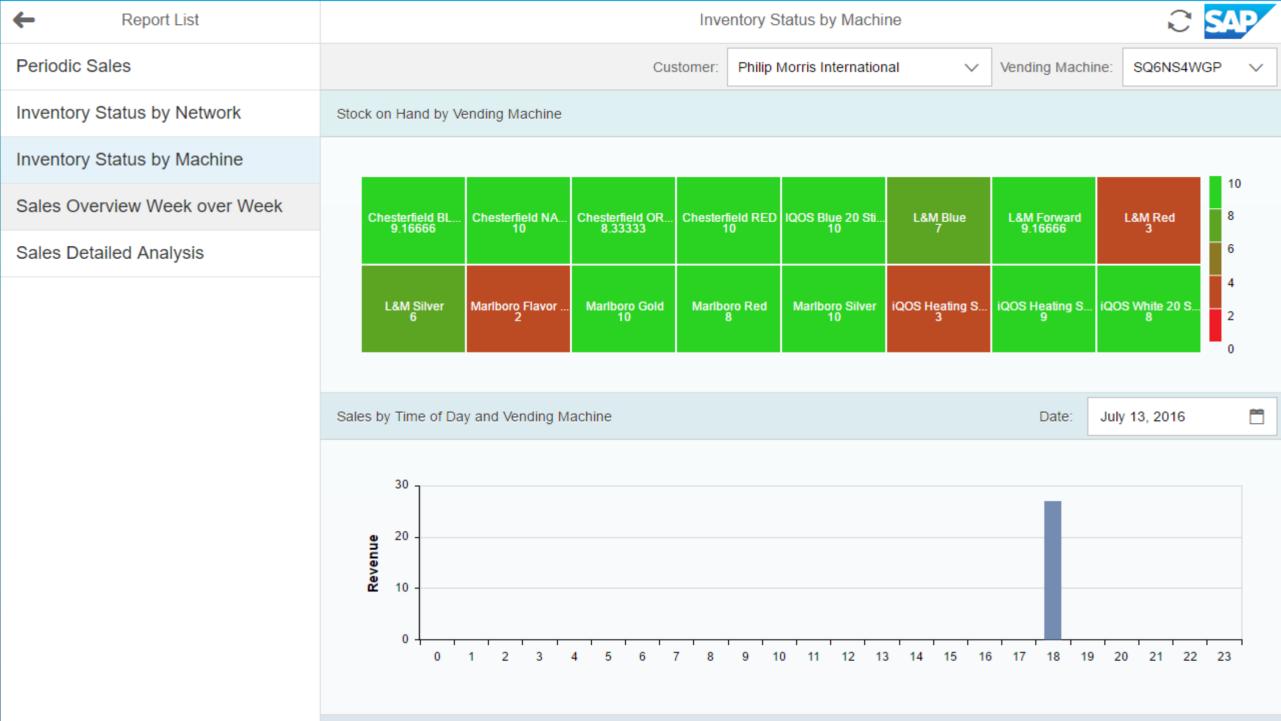
Sales Period:	2016
Davianus	Davis

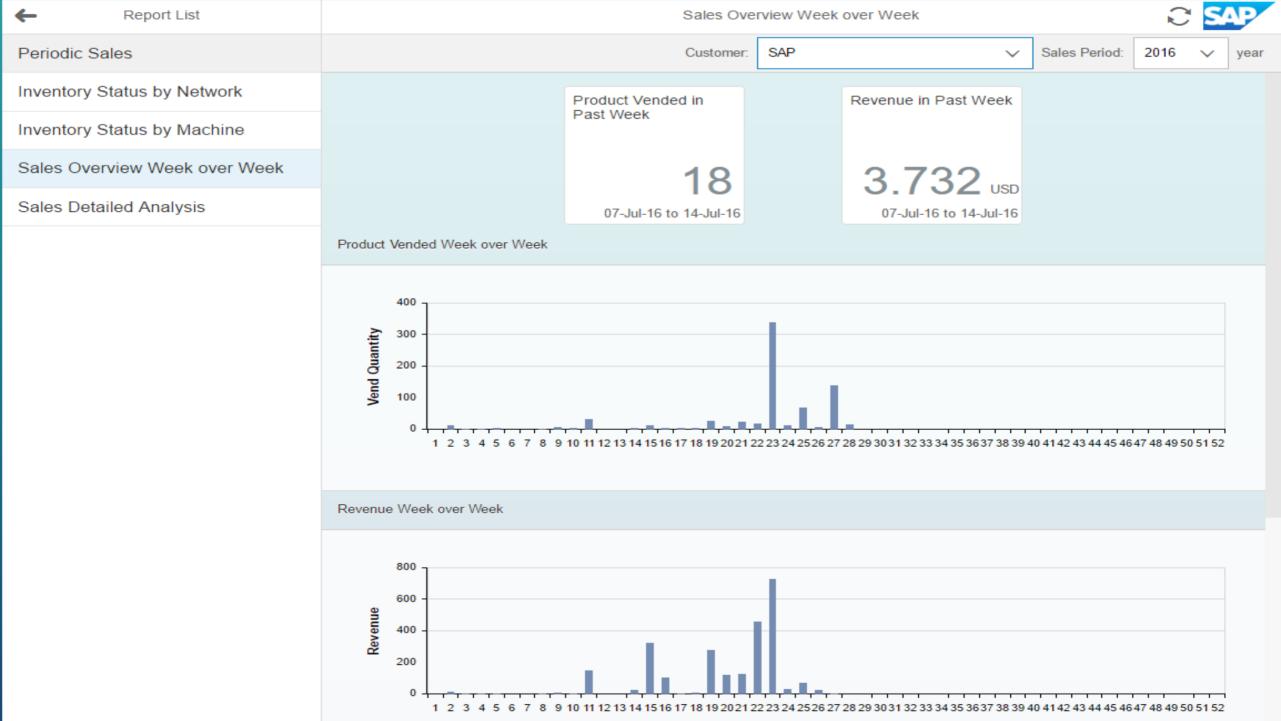
Machine ID	Customer Na	SKU	Product Name	Price	Quantity	Revenue	Days w/o Vend	
234NU35LR	SAP		Coca Cola 500ml	1.5 EUR	16	22.56 USD	35	
234NU35LR	SAP		Snickers 58g	0.8 EUR	28	21.05 USD	6	
234NU35LR	SAP	1001825	Coca-Cola 12oz	2 EUR	23	43.24 USD	13	
234NU35LR	SAP	1009581	SAP Medium Black T-Shirt	15 EUR	17	239.7 USD	13	
234NU35LR	SAP	431150137021 6	Orange Orchard	4 EUR	9	33.84 USD	31	

Product Vended Month Over Month



Revenue Vended Month Over Month











> Route Map

▼ Machine Details



	Sequence	Machine ID	External ID	Address	Driving Time	Waiting Duration	Visit Required
•	1	36J6E7E72	IOT_SVM005	188 Avenida SAP, São Leopoldo	0	0	0
0	2	INTEL01	INTEL01	2 Viale Severino Boezio, Milano	0	0	<u>(1)</u>
0	3	INTEL02	INTEL02	15 Via Lazzaretto, Milano	0	0	①
0	4	INTEL03	INTEL03	9 Via della Moscova, Milano	0	0	<u>()</u>

Visit Requirements

Slot Position	Selection Code	Product ID	Current Qty	Required Qty
3:0	130	1006310	3	15
3:1	131	1006310	4	14
3:2	132	1006312	3	15
3:3	133	1006312	4	14
4:2	142	1006284	1	5

Digital Economy



Optimize Operations

- Real-time data on all vending machines
- Automatic service ticket creation and maintenance
- Real-time inventory & streamlined replenishment



■ Real-Time Analytics

- Up to date revenue and location analysis
- Interpret and predict purchase patterns
- Understand sales down to the individual consumer level



Expand Market Reach & Channel Utilization

- Create new revenue streams
- Reach new market segments and locations faster



A Direct Channel to Consumers

- Create a superior mobile experience
- Create a real-time, personalized, consumer experience
- Create network effects between groups of individuals