

SAP F&R Today and Tomorrow

Uwe Zachmann, SAP
July 2016



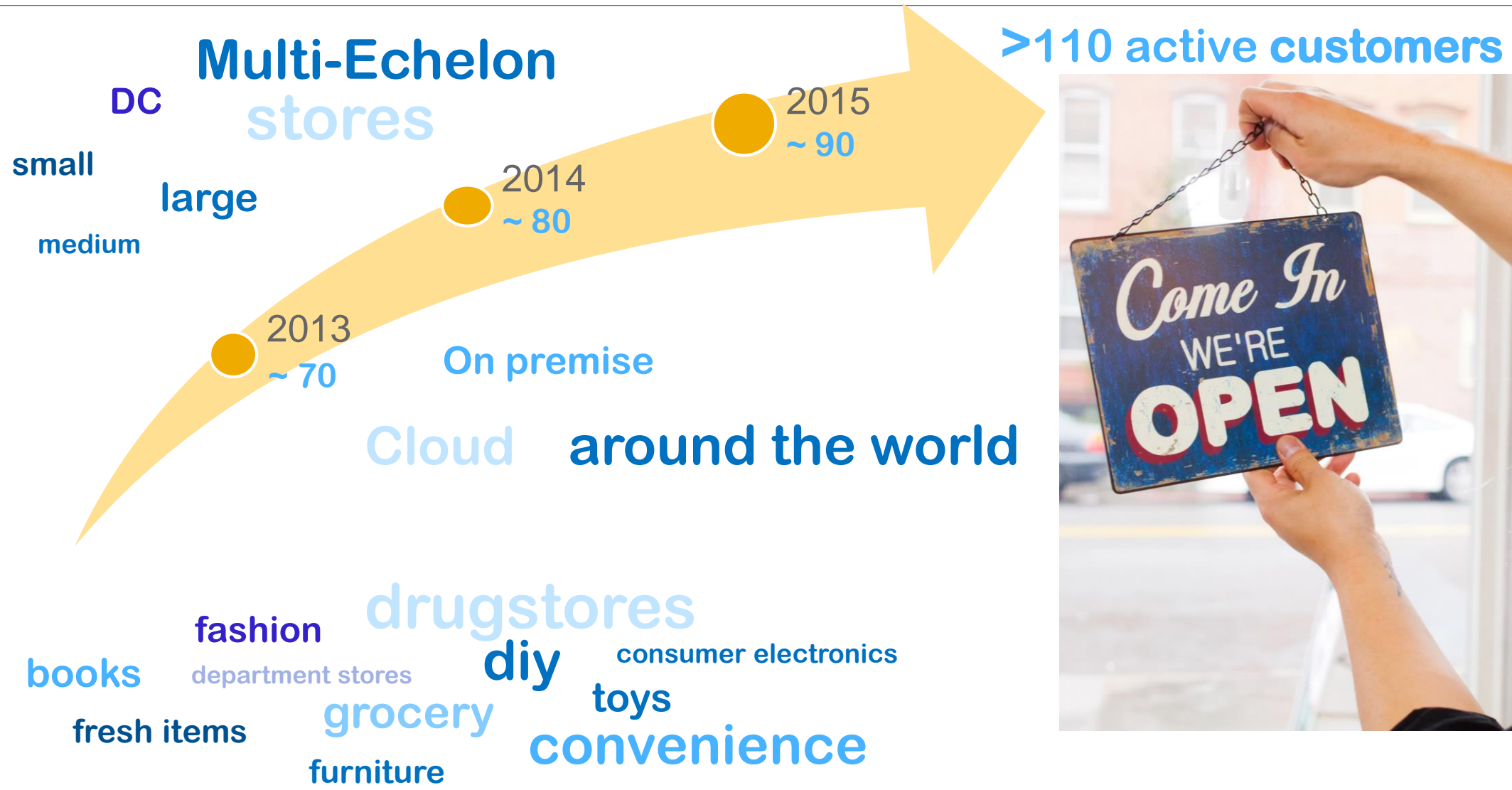
Disclaimer

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. Except for your obligation to protect confidential information, this presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or any related document, or to develop or release any functionality mentioned therein.

This presentation, or any related document and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment, promise or legal obligation to deliver any material, code or functionality. This presentation is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This presentation is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this presentation, except if such damages were caused by SAP's intentional or gross negligence.

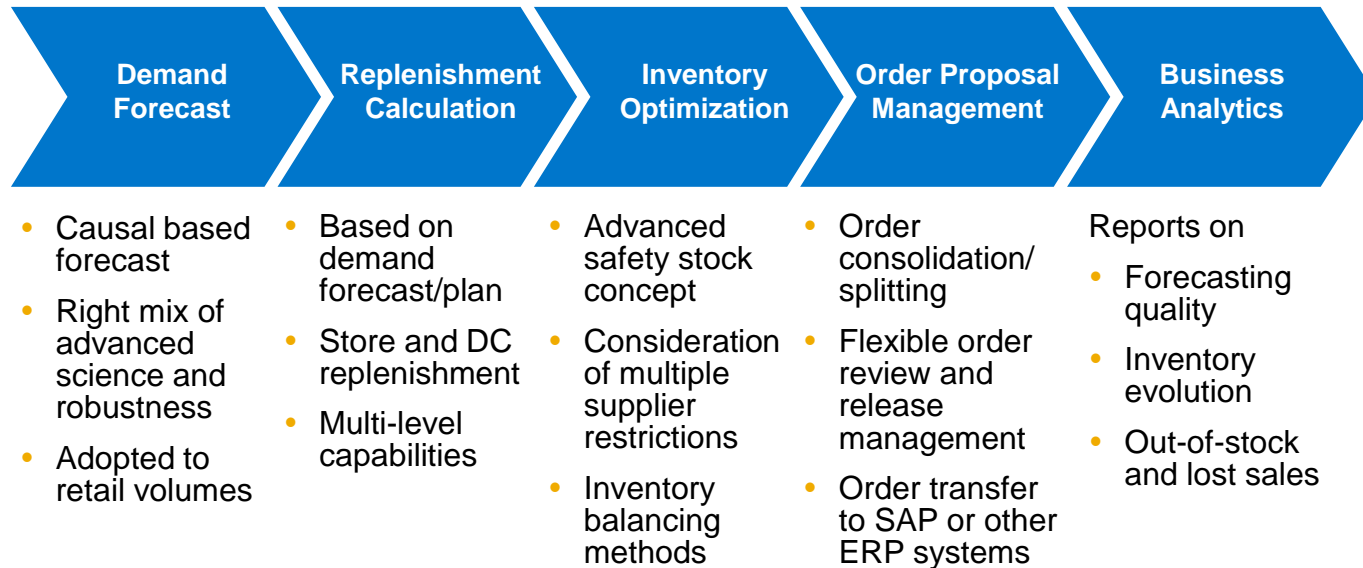
All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

SAP F&R Customers: A Growing Community



SAP Forecasting and Replenishment Today

SAP F&R 5.2 on SAP HANA



Recent Innovations

- SAP F&R available for SAP HANA
- SAP CAR inventory view for SAP F&R relevant stock
- Fresh product forecasting add-on - Forecasting and automated replenishment of products such as vegetables and fruits, meat, fish or convenience food
- Offline order proposal review integration (in conjunction with SAP ERP and GK)

SAP Forecasting and Replenishment for Retail

Fresh product forecasting add-on (Repeatable Customer Solution)

Recent Innovation

With **SAP Forecasting & Replenishment** retailers can create automated order proposals for a wide range of goods. However, in product categories with ultra-fresh products (shelf life of a couple of days) special requirements have to be met.

The **new Repeatable Customer Solution Fresh product forecasting** add-on covers the forecasting and the automated replenishment of ultra-fresh products such as vegetables and fruits, meat, fish or convenience food. SAP F&R is required as prerequisite.

By using the solution customers can **reduce waste** and **increase the availability** of fresh products in stores.

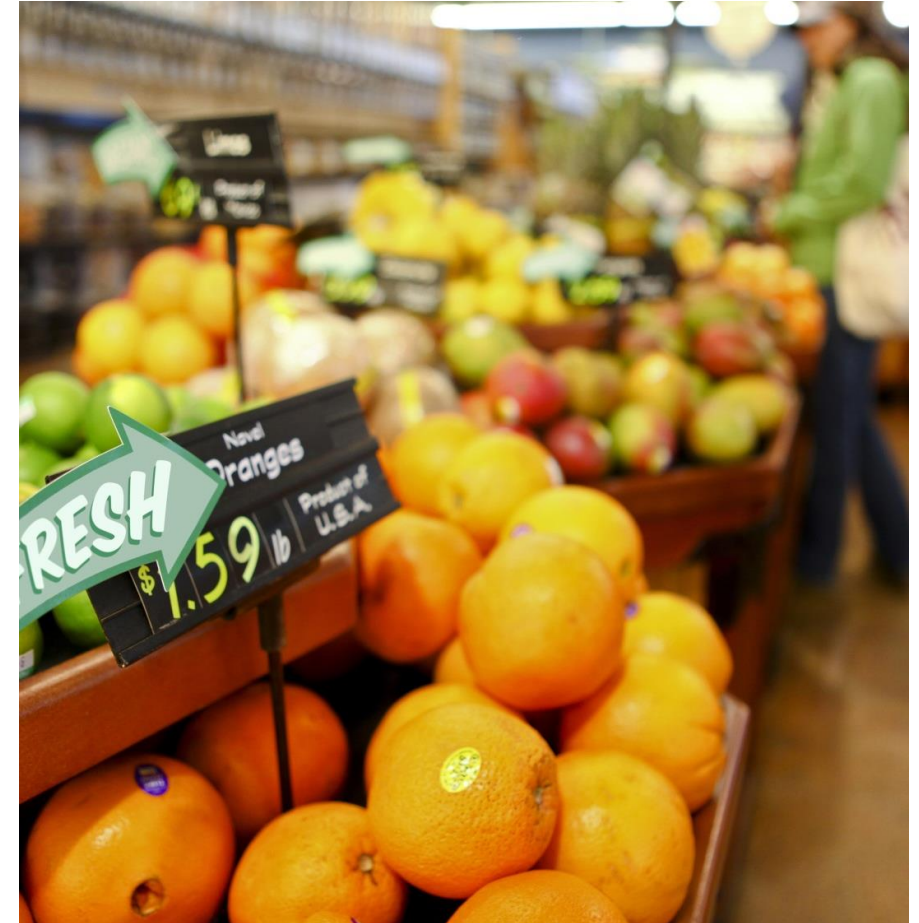
The solution provides:

A special fresh forecast

- Increased accuracy and reactivity of forecasts to reduce write-offs, especially suited for products with short sales periods or products which have a strong intra-weekly sales patterns and trends

An improved replenishment quality by

- Estimation of future waste based on shelf life and shrinkage and its consideration in the requirement calculation



Planned Innovation SAP F&R: Offline review (GK)

Recent Innovation

Interface between SAP F&R and SAP Offline Mobile Store by GK

- Order proposals from SAP F&R can be reviewed on mobile store solutions
- Integration between SAP F&R, SAP ERP and SAP Offline Mobile Store by GK (or other store solutions) including the possibility to work exception-driven when reviewing order proposals in GK
- Efficient distribution for time-critical processes by event-driven processing of stores

Key benefits

- SAP ERP is the controlling instance and is holding the order proposals/store orders
- SAP ERP data is enriched by SAP F&R Exceptions
- Fast and standard interfaces / API's between SAP F&R, SAP ERP and SAP Store Solutions by GK or other store subsystems

Auto order-Select work pool

Itm-No	OTP to Supplier	Sort	Pos RP	S
	09-26 10:30 PM	Y	1/1/1	O !
	United Corp		123	
	09-26 11:45 PM	D	1/1/1	O !
	United Corp		123	
	09-27 11:45 PM	D	1/0/1	O
	Private brand supplier		123	

1 from 3

Back OK

Auto order-Registration mask

WP Bakery NY-10:30 PM-Y

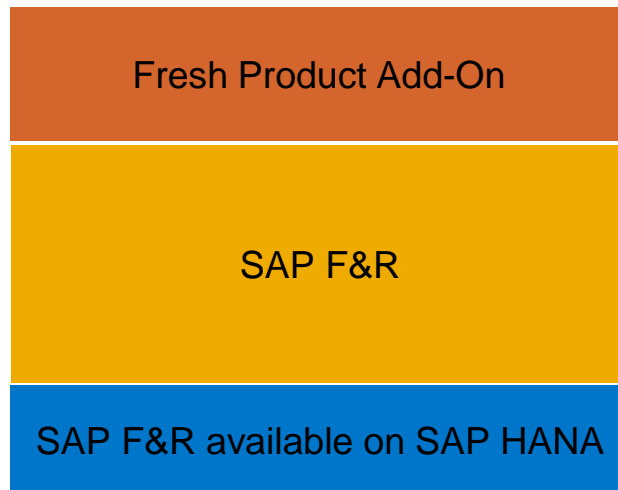
RP 123

Itm-No	218001
218001	Damenpumps !
Excep.	Neg. stock
Struct	
SP	8.49 PSP 7.19
DD	13-09-18 ACW * P(PrS)
Shelf	ShelfB
Space	1 *
OPR	4 PCE
Qty	PCE

Back Options Positions OK

What happens with SAP F&R?

SAP F&R remains the key part for SAP Retail Replenishment.
Its value is proven and provides fast return on investment.



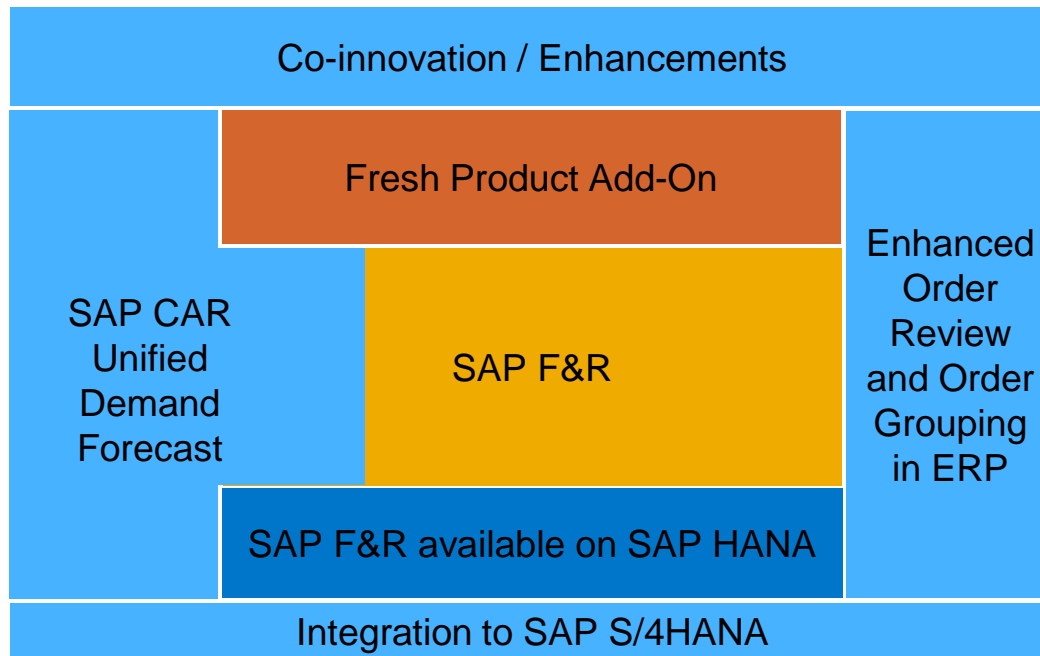
Continuous investment into the solution e.g. Fresh Product Forecasting, co-innovation areas like operational reporting and SAP Fiori based order review

Standard Maintenance with delivery of Support Packages for more than 9 years*

*SAP F&R is part of the SAP Business Suite. Currently confirmed maintenance for SAP F&R 5.2 is 2025 with the exception of the Java based Store UI (Replenishment Workbench for Stores), which remains on 2020.

What happens with SAP F&R?

- SAP F&R remains the key part for SAP Retail Replenishment. Its value is proven and provides fast return on investment.
- Unified Demand Forecast UDF will drive a breakthrough in predictive capabilities and demand integration.
- The Replenishment part is stable and will be enhanced with incremental improvements in a co-innovation mode.



Continuous investment into the solution e.g. Fresh Product Forecasting, co-innovation areas like operational reporting and SAP Fiori based order review

Standard Maintenance with delivery of Support Packages for more than 9 years*

*SAP F&R is part of the SAP Business Suite. Currently confirmed maintenance for SAP F&R 5.2 is 2025 with the exception of the Java based Store UI (Replenishment Workbench for Stores), which remains on 2020.

Innovation Example: SAP Fiori based store order review

SAP Labs preview

Store order app for store associate

- Simple UI for store employees
- Enable store associates to review and update order proposals primarily on a mobile handheld device
- Display relevant order proposal information (in ERP)
- Provide explanations (e.g. exceptions)
- Offer the ability to accept or to apply changes
- Integration in overall SAP ERP Retail Fiori store concept, based on existing order products app

The image displays two screenshots of the SAP Fiori Store Order app interface.

Left Screenshot: Tasklist (Stock Correction)

This screen shows a list of products with their status and quantity. The header indicates "Products (18 of 20 tasks open)".

Product Name	Quantity	Status
Joghurt Vanille	-1	Negative stock
Joghurt Strawberry		Missing sales
Milk		Negative stock
Sour Cream		Missing sales
Cheddar Cheese		Manual request
Joghurt Vanille		Negative stock

Right Screenshot: Order Products

This screen shows the details for a specific product, "Joghurt Vanille", with a quantity of 20 PC. It includes a "Correct Order" section with a "New Quantity" input field (set to 20) and a "Calendar" section showing a date picker for June 2015.

Correct Order Section:

New Quantity: (PC)

Exception Section:

1. Critical item (high)
2. Reordering after delisting (medium)

Calendar Section:

June 2015

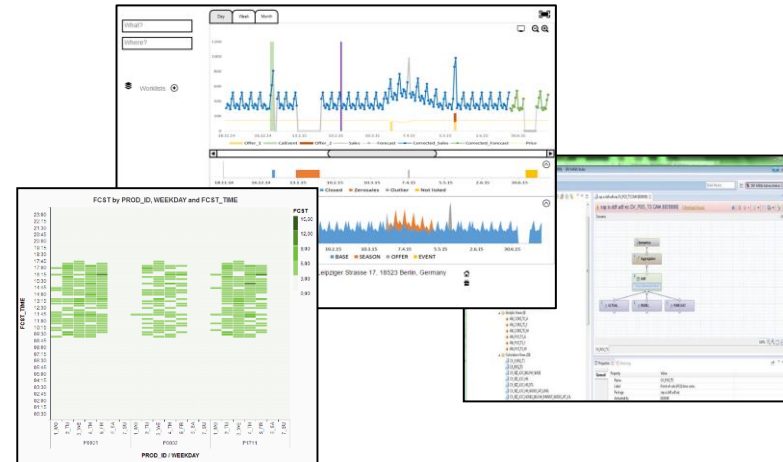
Mon	Tue	Wed	Thu	Fri	Sat	Sun
8	9	10	11	12	13	14
4	7	2	6	8	9	0
15	16	17	18	19	20	21
4	7				+20	
22	23	24	25	26	27	28
		O	A			

SAP Unified Demand Forecast (UDF)

SAP Unified Demand Forecast (UDF) is the new generation of forecasting for SAP Retail.

UDF combines strengths of various forecasting methods to supply predictive information to all Retail applications. This includes Promotion Management for Retail, Assortment Planning, and all future consuming applications on the **SAP Customer Activity Repository**.

SAP HANA gives the appropriate technology base to run ad-hoc simulations with in-memory performance.



Calculates the **impact of historical factors** that influence demand like promotions, calendar events, seasonality or price elasticity, then uses **Bayesian statistics** to fill in the gaps of knowledge of what happened in the past.

Can provide special forecasts for short life cycle products (ramp up and ramp down)

Supports **what-if forecasting** capabilities to compare multiple scenarios, or **production forecasting** capabilities for ongoing/analytic access

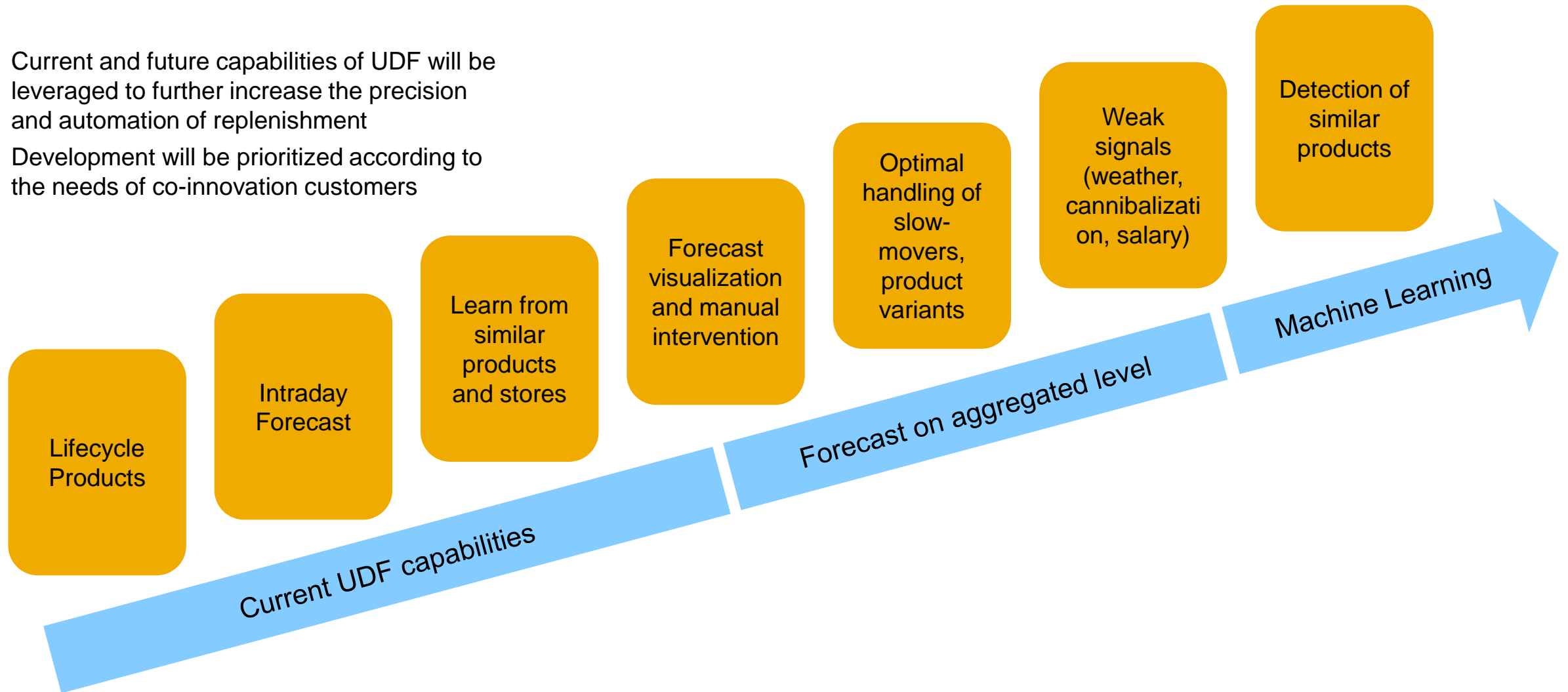
Visualization tools available and further are planned

Why it makes sense to integrate SAP F&R with UDF



UDF Integration – Roadmap for Replenishment Enhancements

- Current and future capabilities of UDF will be leveraged to further increase the precision and automation of replenishment
- Development will be prioritized according to the needs of co-innovation customers



Unified Demand Forecast across Retail Planning – Outlook / Vision

Assortment Planner needs forecast to select the best options for the option plan based on financial KPIs

What If Calls:
Validity Period
Option
Store cluster
Horizon: 6-12 m

Promotion Planner wants to optimize promotion attributes and promotion periods based on financial KPIs

What If Calls:
Promotion Period
Product Group
Store Cluster
Horizon: 1-3 m

Demand Planner needs forecast as base for the creation of a demand plan

Production:
Day/Week
Product
Location
Horizon: 1-3 m

Allocation .Planner needs forecast/demand plan as base for the initial allocation strategy and the in season fill in scenario.

Demand Plan:
Week
Product
Location
Horizon: 1-3 m

Replenishment Planner needs quantile forecast/ demand plan for demand/target periods as base for order quantity calculation.

Demand Plan :
Day
Product
Location
Horizon: 1 month

Unified Demand Forecast

Data sources

POS data

Syndicated
.data

Sales Orders

Shipments



Thank you

Contact information:

Uwe Zachmann
Product Management Retail
SAP SE

uwe.zachmann@sap.com

© 2016 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see <http://global12.sap.com/corporate-en/legal/copyright/index.epx> for additional trademark information and notices.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.