

**SAP Customer Experience** 

## Transform Customer Experience using Analytics and Customer Intelligence with SAP C/4HANA

Sven Feurer, Sr. Director C/4HANA Suite Product Management, SAP SE May 2019

**PUBLIC** 



#### **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.

#### **Agenda**

- 1. Overview Customer Experience Momentum
- 2. SAP C/4HANA Suite Overview & Embedded Intelligence
- 3. Data Intelligence Vision
- 4. Q&A

## **Customer Experience Momentum**



#### **Experience matters**



Source: https://www.restorationhardware.o

5

#### **Experience matters**







# We live in an Experience Economy

#### **Experience Economy: some stats**

80%

of customers have chosen to **switch brands** due to a poor **customer experience**<sup>1</sup>

\$2.5T

Impact of yearly loss of trust due to abuse of **data privacy** and **brand loyalty**<sup>2</sup>

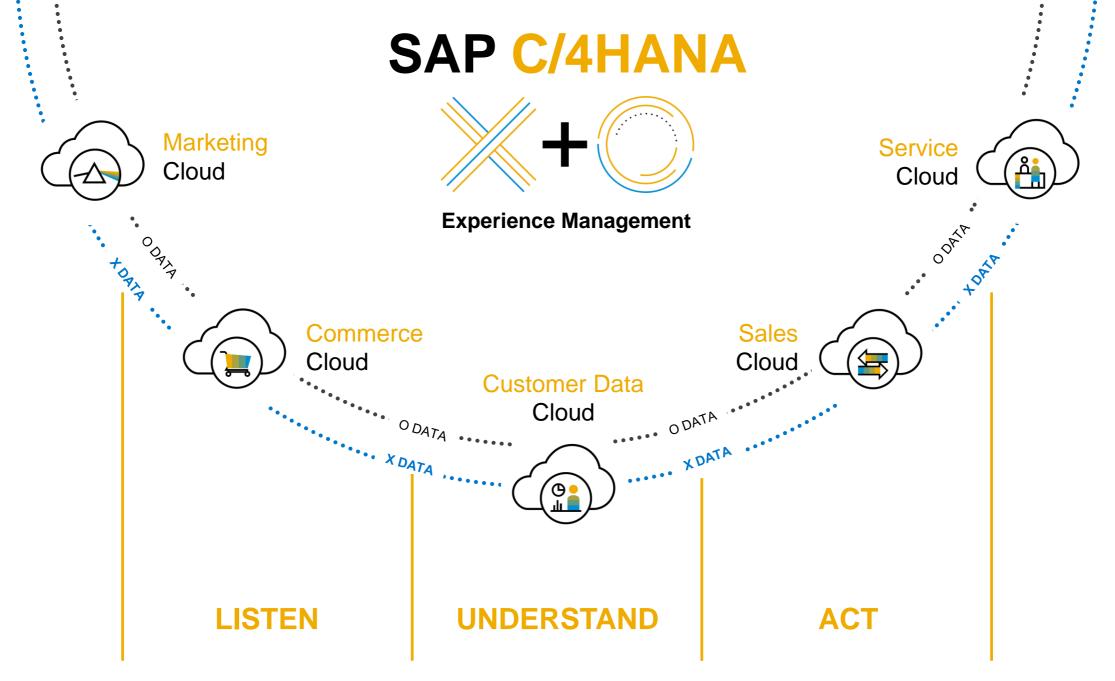
\$100B

Estimated market size for **customer experience solutions, platform and integration** to operational systems<sup>3</sup>

© 2019 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC 1 Bain 2 Adweek 3 SAP CMI Model 8

## Delivering new Customer Experiences with SAP C/4HANA Suite





## CX Vision

Provide the world's leading Customer Experience Suite.

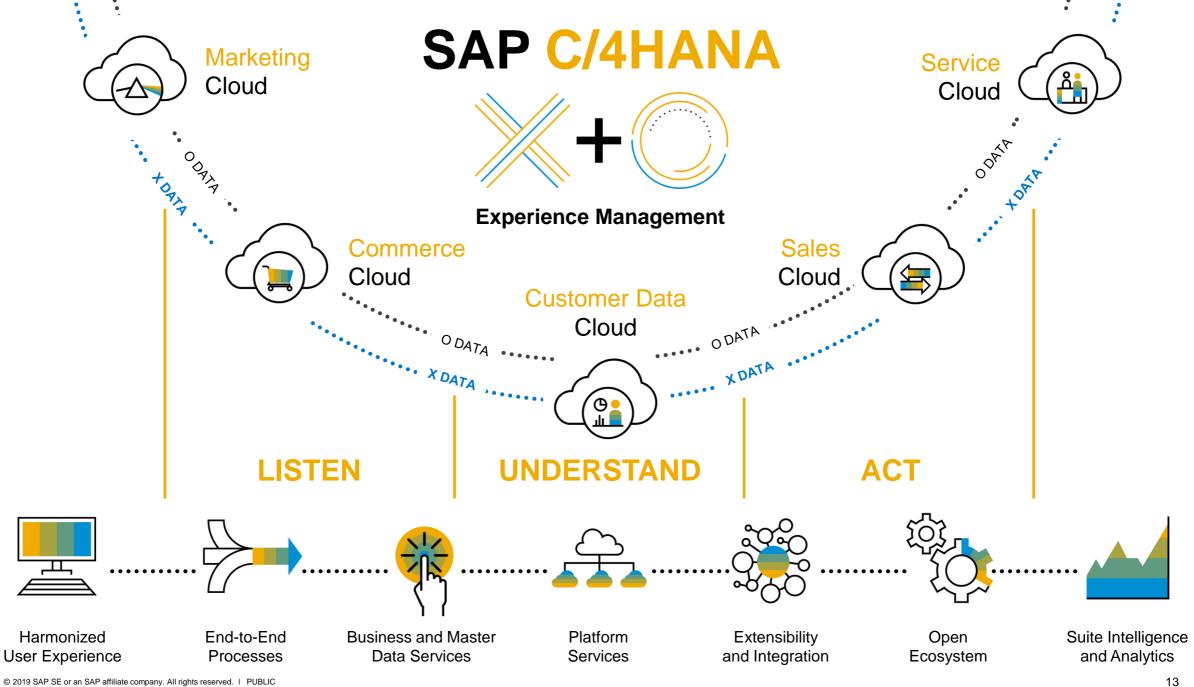
REAL TIME. AUTOMATED. INSIGHT DRIVEN. AGILE.

# CX Strategy

Be #1 or #2 in each domain

Deliver one unified suite of cloud solutions

Integrate demand and supply chain & Experience Management



## Data-Driven Customer Experiences with Embedded Intelligence & Analytics



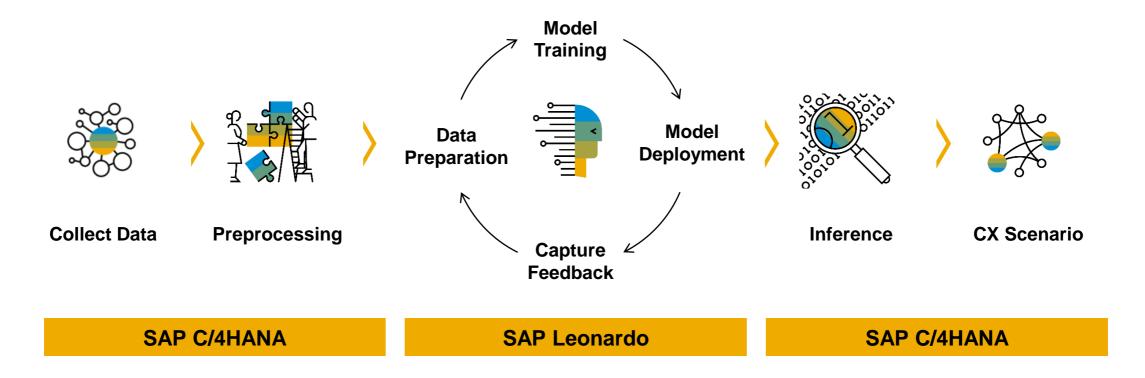
# Why we Need of Artificial Intelligence in Customer Experience

"By 2020, 85% of customer interactions will be managed without a human" Source: Gartner

We all live in an omni-channel world. In order to be relevant, companies have to listen and engage with them along the customer journey by delivering coherent experiences across all channels.

This complexity in CX datasets is precisely the reason why AI can unleash so much value across the customer experience. AI can be leveraged to measure and improve customer experience by finding patterns across an overwhelming number of data points.

#### **How does Machine Learning work**



#### ...to predict, anticipate and address Customer Needs



#### **SAP C/4HANA Intelligence and Analytics**

**Building Blocks and Technologies** 

#### SAP C/4HANA

#### Unified User Experience

Embedded Intelligence — SAP Leonardo

Machine Learning

Intelligent Scenarios, Deep Learning Business Analytics

Dashboards and Augmented Analytics

Conversational Scenarios

For business users and end-customers

Internet of Things Scenarios

Connected Experiences

**Early Technologies** 

e.g. Blockchain, AR, Intelligent Robotic Process Automation **Data Intelligence Platform (planned)** 

Combined data sets across multiple systems, applied with ML algorithms and predictive analytics

Intelligent Technologies:



Embedded ML, Predictive Libraries (HANA)



SAP Leonardo Machine Learning, IOT



SAP Analytics Cloud (SAC BI, Predictive)



SAP Conversational AI, Intelligent RPA



Data Intelligence Platform (planned)



SAP Marketing Cloud



**SAP Commerce Cloud** 



SAP Sales Cloud



**SAP Service Cloud** 



SAP Customer Data Cloud

Master Data Management

Extension Framework and Microservices Ecosystem

SAP® Cloud Platform

SAP S/4HANA®

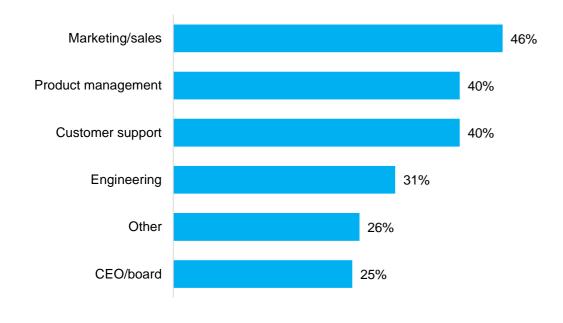
FROM MACHINE LEARNING TO EMBEDDED INTELLIGENCE

Applied AI, Augmented Analytics, Chatbots, Robotics, ++



#### Marketing / Sales are dominating and leading Al investment

### Areas of organization leading or evaluating Al investment and adoption (Top three selection)



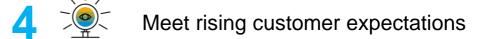
Base: 418 business and tech professionals

### Top five objectives organizations want to achieve by investing in Al-driven marketing initiatives











Source: Forrester's Top Emerging Technologies For Future Of Marketing, 2017; Forrester's Building Trust And Confidence: Al Marketing Readiness In Retail And eCommerce, 2017

#### **Embedded Intelligence for the Front-Office**

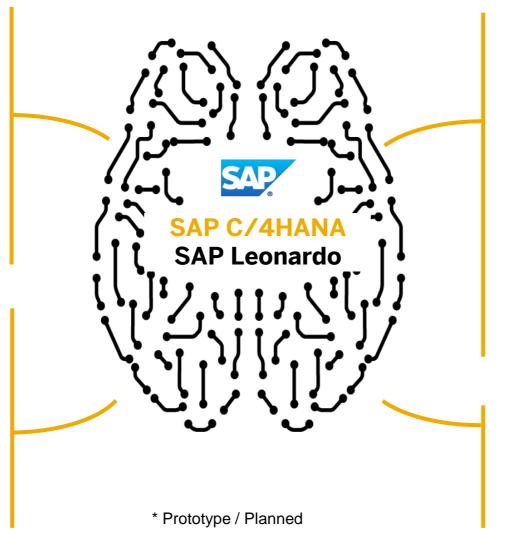


#### **Marketing**

Best Channel and Sending Time
Product Buying Propensity
Product and Offer Recommendations
Sentiment Analysis
Customer Attribution
Lead Conversion Propensity\*
Customer Retention\*
Smart Campaigns\*

#### **Service**

Ticket Intelligence
Similar Tickets Recommendation
Conversational Bot API
Ticket Time to Completion\*
Virtual Assistant Bot\*
Solution Intelligence\*
Field Service Intelligence\*



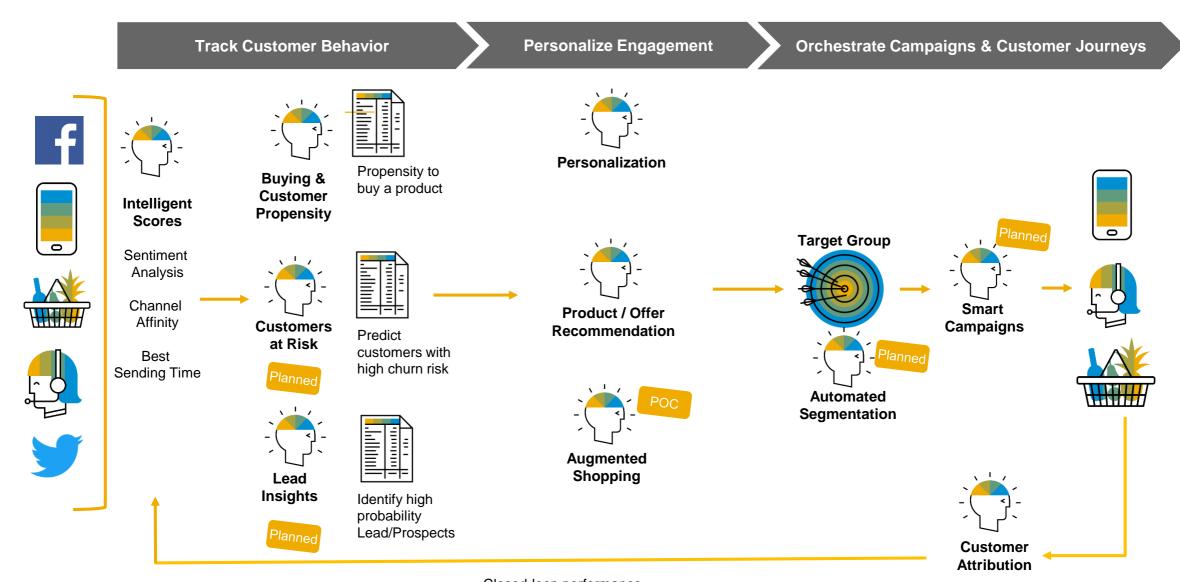
#### **Sales**

Lead & Opportunity Intelligence
Price Optimization
Up-sell & Cross-sell Offers
Prospecting Intelligence
Intelligent Sales Execution
Incentive Optimization
Intelligent Coaching
Sales Assistant\*
Sales Capacity Planning\*
Quota Optimization\*
Intelligent Negotiation\*

#### **Commerce**

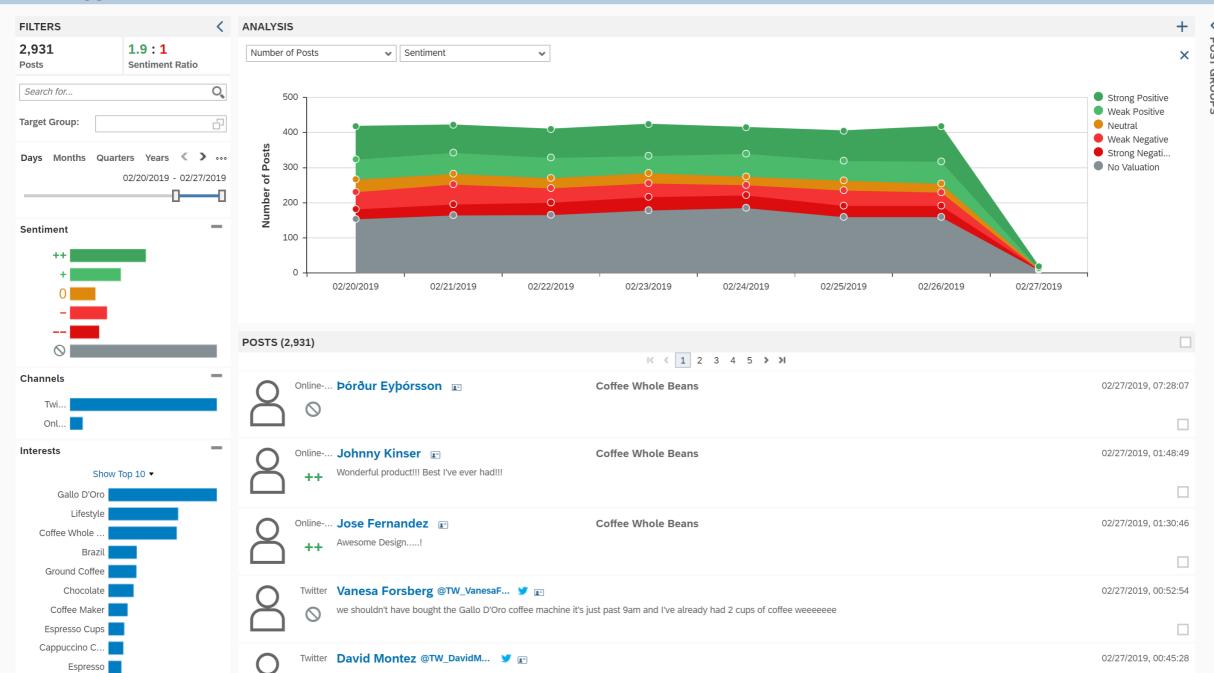
Context-Driven Services
Contextual Merchandizing
Enterprise Chatbot

#### **Intelligent Marketing End to End Process**



© 2019 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC across all channels 21

#### **Sentiment Engagement**















Fred Fox ∨

- +441632394043
- +441632394045

fred.fox@democloud.hybris.com



Latest Interaction



OptOut for Marketing... 18.02.2019

Latest Interaction Interest



Canon, Just a Demo Interest 26.11.2018

Car Enthusiast Meter



100

**OVERVIEW** 

INTERACTIONS

PERSONAL DATA

ORIGIN DATA

SCORES

PERMISSION MARKETING

COMMERCE

LEADS

ACCOUNT TEAM

#### Select Scores

Activity Score



750

Credit Score



**Excellent** 

Age



Gender



Male

Contact Level



30

Marital Status



**Divorced** 

Latest Activity

Q **9**\* =



Recent

Sentiment Score



**Strong Positive** 

**Email Affinity** 

. ∴Ö:



**Medium Email Affinity** 

Best Email Sending : 🗘: Time



No Valuation

Engagement Score : Q:



91

Loyalty Member Points



200

Best Push Notification :♀ Sending Time



No Valuation





100

Loyalty Member Revenue



0

Loyalty Member Tier



Bronze

Push Notification : Q: Affinity



No Valuation







#### Fred Fox ∨

- +441632394043
- +441632394045 fred.fox@democloud.hybris.com





Latest Interaction





OVERVIEW

INTERACTIONS

PERSONAL DATA

ORIGIN DATA

SCORES

PERMISSION MARKETING

COMMERCE

LEADS

ACCOUNT TEAM

Q **9\*** =

Recommend	dations Based on Buying History	<b>©</b>
Image	ID	
A	33350361	
-	37793217	

#### **Browsing Favorites**

_		
Image	Name	ID
	EOS450D + 18-55 IS Kit	1382080
	DSC-N1	358639
	GoPro HERO 5 Session 10MP 4K Ultra HD Wi	33353989

#### **Buying History**

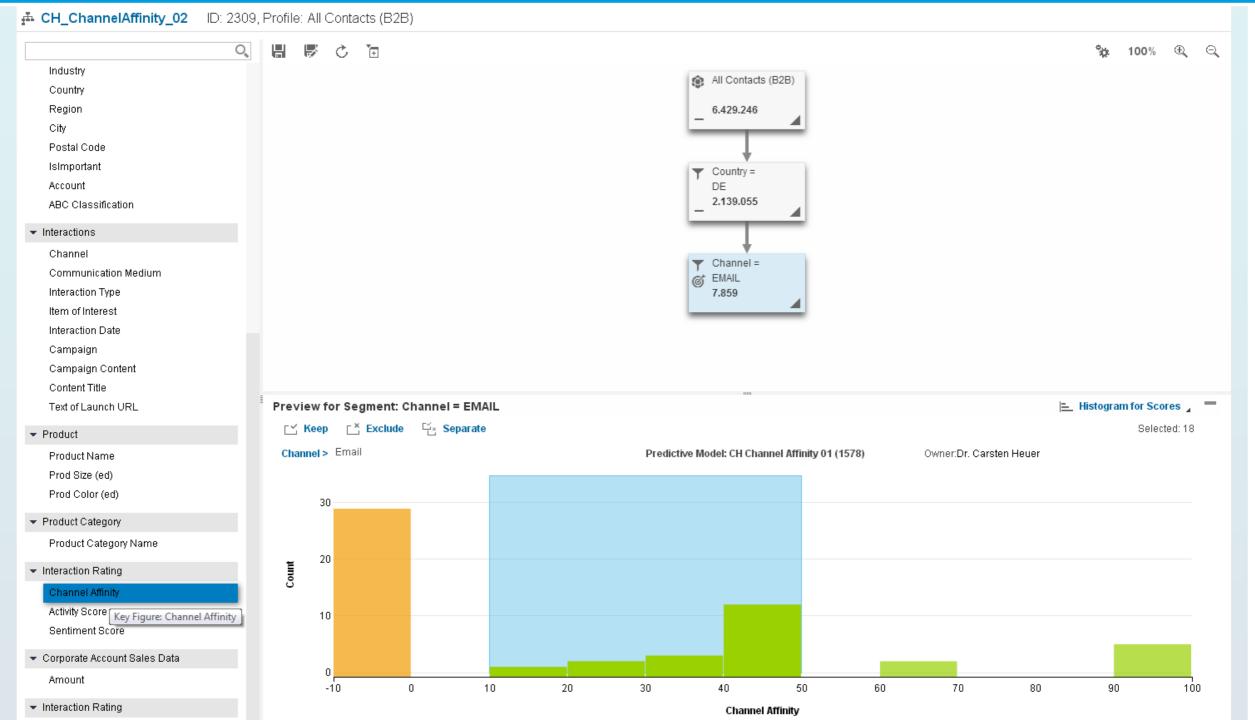


7 🕸





Image	Name	ID	Amount	Quantity	Status Name	Reason Name	Date
f.	BC-TRV	4769104	165.97 USD	1 EA			15.01.2019
	PL60 Silver	1981415	212.26 USD	1 EA			15.01.2019



#### Understand Customer Behavior by Tracking the Customer Pulse



Customer Behavior Apps

Lead Insight

Customers at Risk

Customer Information

Customer ID

Age

Average balance

Behavioural Risk Index

Products

Average estimated income

Collect
Customer Data

Respond to the Customer Pulse

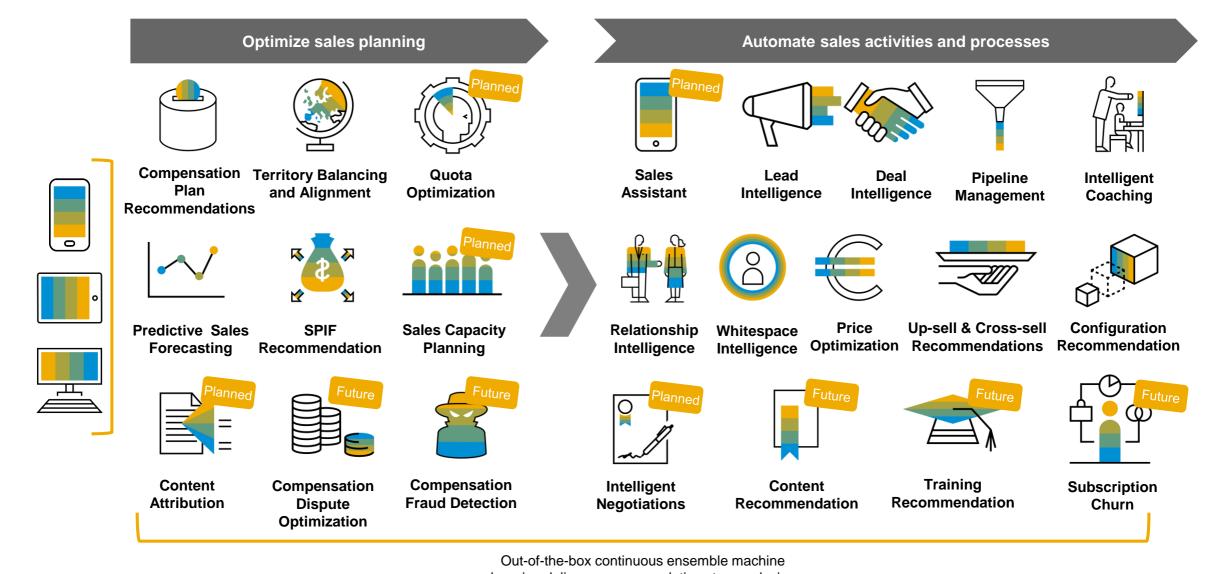
Jul 2012 Oct 2012 San 2013 Apr 2013 Jul 2013 Oct 2013 Jun 2014

Apr 2014

M 2014

Oct 2014

#### Intelligent Sales for Better Planning and Higher Productivity



learning delivers recommendations to any device
© 2019 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

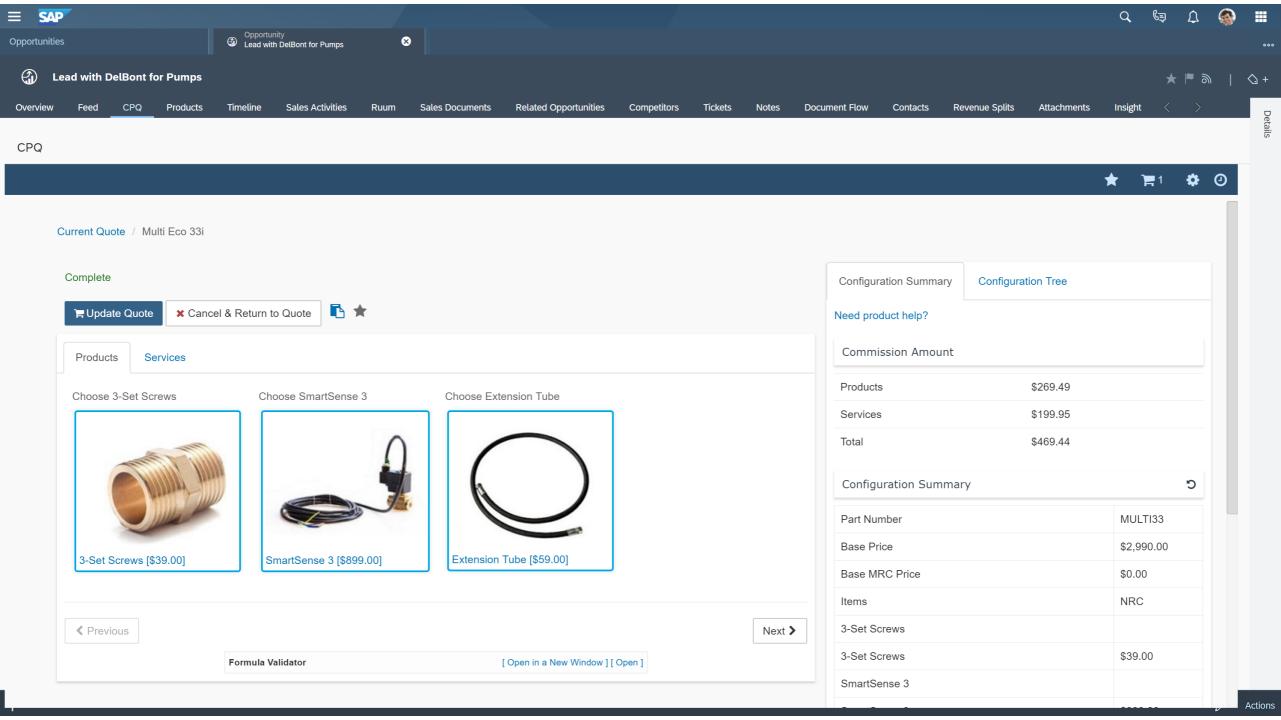
28

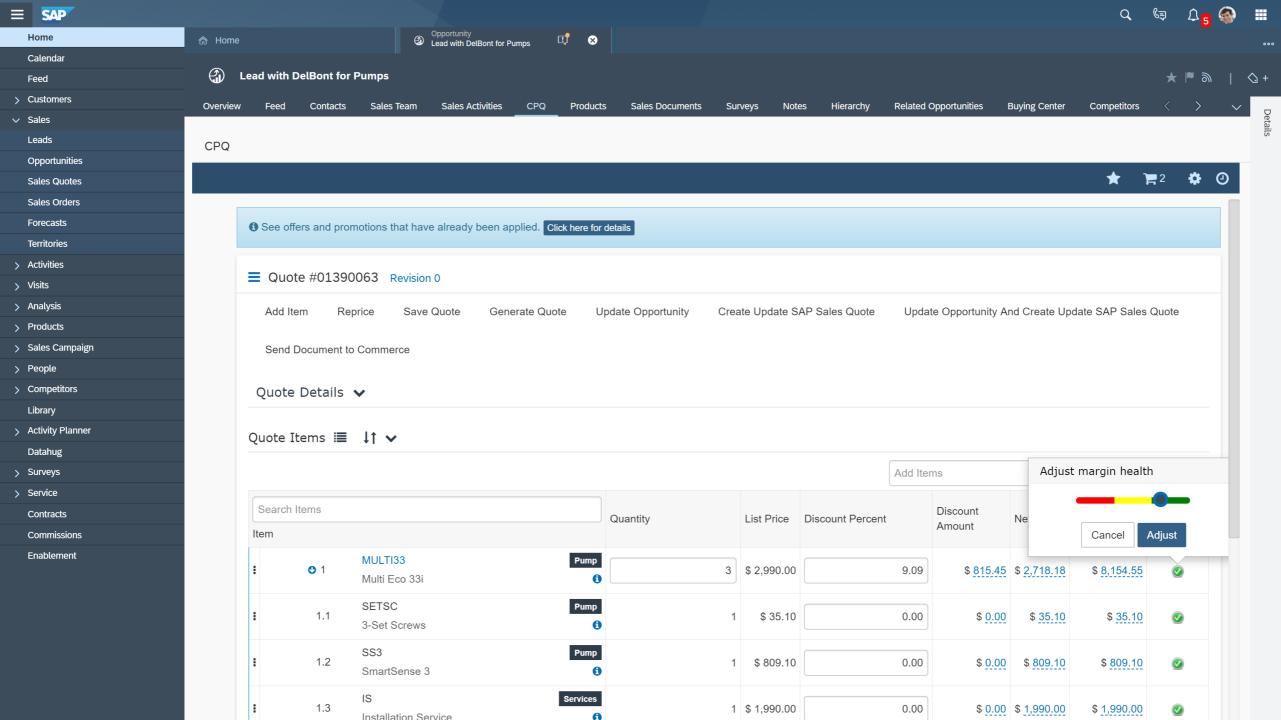






ML Scored Opportunities (32) ∨					Q 1 O 7	Insights	
Name	Account	Close Date	Sales Phase	Owner	<u>Score</u> ■	② Lead with DelBont for Pumps	
Anadolu Bölge Bayi Fırsatı	ALPHA Center	31.01.2019	Close	Mike Summers	83		
The Tree Huamak	ALPHA Center	31.01.2019	Qualify opport	Mike Summers	83	56 Opportunity Score ▲ 17	
American Standard - Q4 Deal	ALPHA Center	06.03.2018	Quotation	Mike Summers	71	Likely to win	
APL Callidus	AgileX	19.11.2018	Quotation	Mike Summers	71	Key Factors	
Landwirt Schmidt - Mähdrescher	Delbont Industries	31.08.2018	Decision	Mike Summers	70	↑ Days Since Last Update is 3	
Lead for Laptop 2018	ALPHA Center	01.10.2018	Identify opport	Mike Summers	68	↑ Number of Times Revenue Decreased is 1	
(1) Q4 2018 Deal	3M	31.12.2018	Qualify opport	Mike Summers	67	↓ Close Date is in Q1	
(1) Laptop Sales	ALPHA Center	06.08.2018	Identify opport	Mike Summers	65	↓ Number of Times Close Date Pushed is 6	
Lead with DelBont for Pumps	Delbont Industries	02.10.2018	Quotation	Mike Summers	56		
a opportunity for navigator	Pink Company	14.01.2019	Decision	Mike Summers	51	Activity Engagement	
(a) Lead for Pumps-Q3	Delbont Industries	31.12.2018	Identify opport	Mike Summers	49	— A A MADA 1810 A MADA	
Sustainability kit deal (key)	Pronto Services	28.04.2018	Quotation	Michael Rob	49	<u>⊠0</u>	
(a) Laptop Sales - Trade Fair Deal	3M	29.07.2018	Develop value	Mike Summers	46	Received 0	
(a) Lead for Pumps-2018	Delbont Industries	30.11.2018	Decision	Mike Summers	41	Sent 0	
Demo Sup opp	AgileX	30.09.2018	Identify opport	Mike Summers	41	Last Activity	
Q1 Opportunity	Fam farm	19.08.2015	Identify opport	Ashutosh Todkar	40		
(a) Laptop sales	ALPHA Center	10.04.2018	Qualify opport	Mike Summers	39	21 Days Past Due	
High Interest in Pumps	Delbont Industries	20.11.2018	Qualify opport	Eduard Becker	36	0 Times Closing Date Pushed	
Pump Upsell	Media Markt - Fellbach	31.12.2017	Close	Eduard Becker	27	78 Days in Quotation Status	
(a) Laptop Sales	ALPHA Center	03.10.2018	Identify opport	Mike Summers	26		
Trade Fair Deal	Pronto Services	18.04.2018	Quotation	Michael Rob	22	↑↓ Amount Changed	
Roadshop Follow-up	Atlas Architectural DesignS	28.02.2018	Close	Mike Summers	21		
3 Sustainability Initiative	3M	28.10.2018	Quotation	Mike Summers	19	\$80K → \$8K  Last updated 19.07.2018	
(a) Lead for Pumps	Delbont Industries	31.08.2018	Quotation	Mike Summers	19	Status Unchanged  O Times Deal Slipped	
(i) Laptop Sales	ALPHA Center	02.10.2018	Quotation	Mike Summers	16		
1 Selected					\(\lambda \lambda \lambda \lambda \rangle \ra		





#### **Intelligent Commerce End to End Process Vision**

#### Realtime context Track Customer Behavior

#### **Personalized Experiences & Offers**

Personalize Commerce

#### **Adaptive & Intelligent Channels**

Channel Orchestration



#### Realtime Context

Product Affinities

Channel Preferences

> Location Data

Conversion Probability

Price Sensitivity



**Promotions** 





Individualized Product Sets & Recommendations



Adaptive Pricing



Intelligent **Channel Selection** 



Conversational Commerce/Search



Fully Dynamic **Landing Pages** 



Individualized Search & Merch



CONTEXTUALIZATION, MERCHANDISING, INSIGHTS

COMMERCE MANAGEMENT (PROMOTIONS, CART, CHECKOUT,...)

PIM

ORDER MANAGEMENT

**SEARCH & NAVIGATION** 

CONTENT REPOSITORY



SEO Keyword Creation



Product Category/ Assortment Optimization



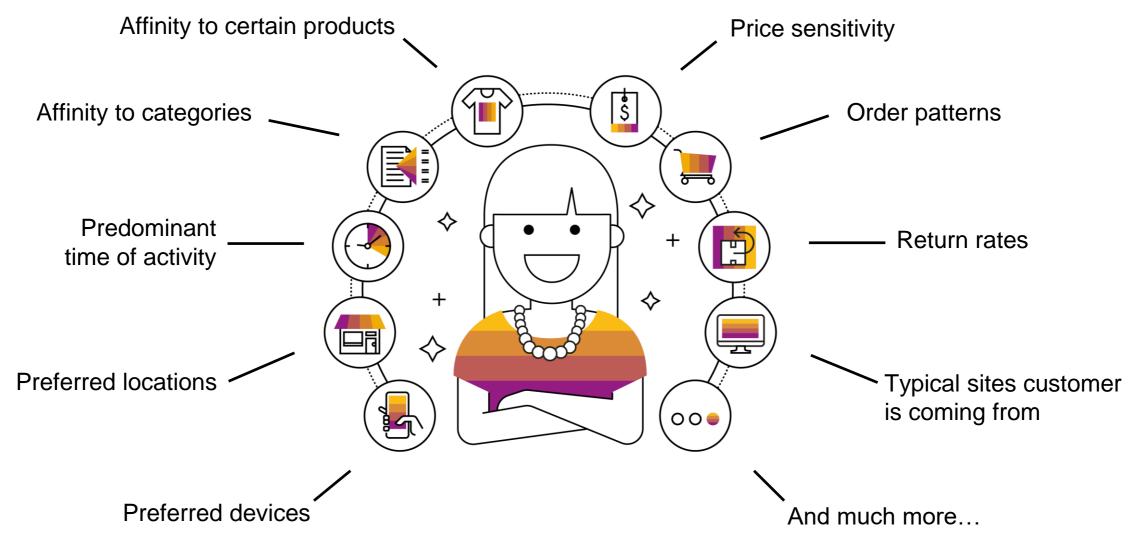
**Auto-Inventory** assignment



#### **Data-driven Content Enrichment**

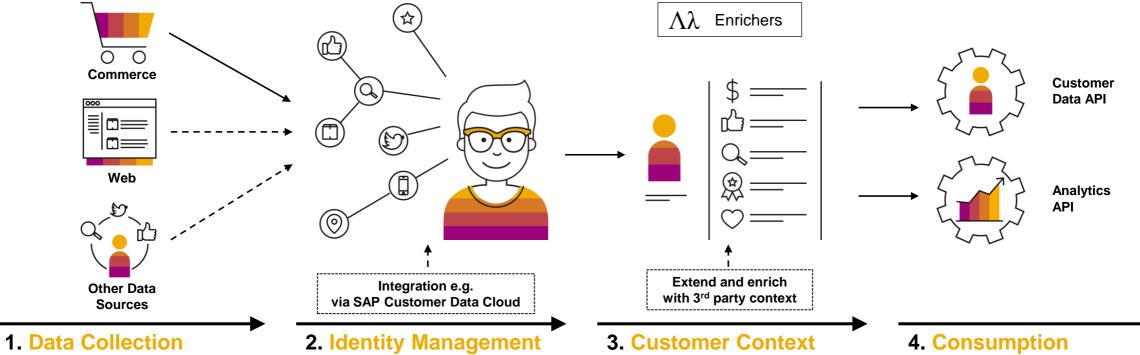
auto-enrich Product Content, Media, Attributes | auto-categorize products

## Understand your customers better, and take decisive actions to personalize the commerce experience



#### **Context-driven services**

#### **Process View**



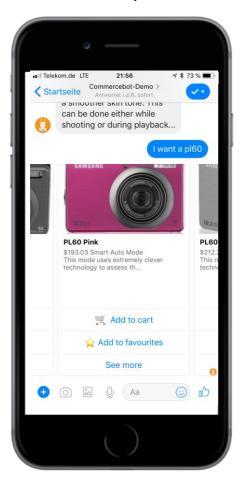
Easy capture of data through prebuilt integrations. Drag and drop tagging for any site. Fully respect end user consent for capture and processing.

Merge identities from multiple sources & sessions automatically.

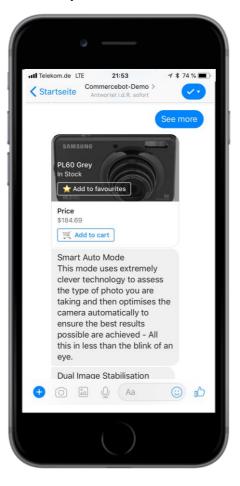
Enrich customer behavioral data based on interactions and other incoming data streams. Calculate metrics, affinities and classifiers in real-time to make data actionable. Easy consumption of individual customer data for in-session personalization. Real-time reporting API for analytics use cases.

#### **Enterprise Chatbot for Commerce**

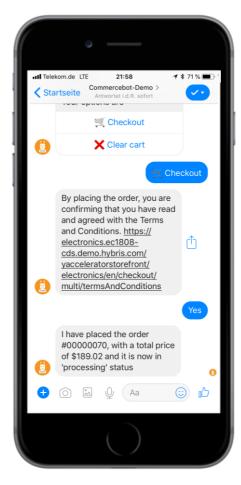
#### Search for products



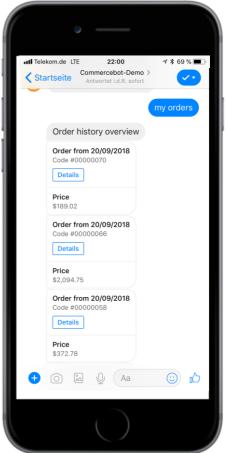
#### Get product details



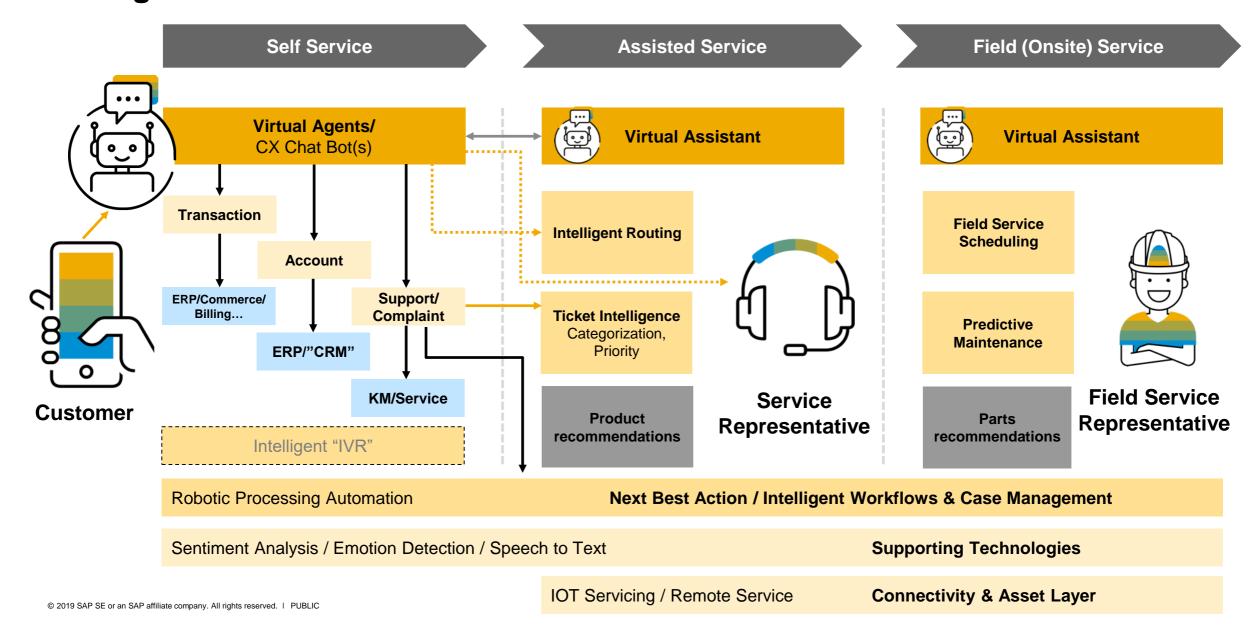
#### Place order



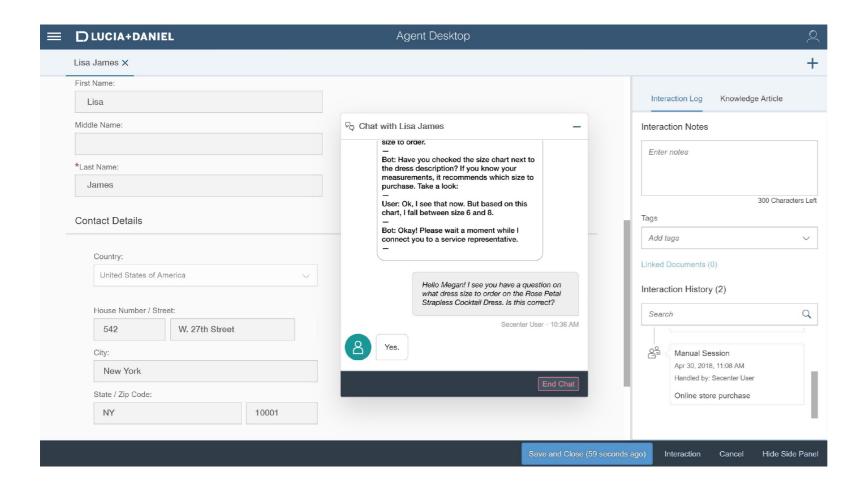
Check order status and order history



Process



#### Agent Desktop with Conversational AI / Chatbot Integration



#### **Business Description**

#### Customer

 Can use an always-on 24/7 channel to submit questions / inquiries in natural language

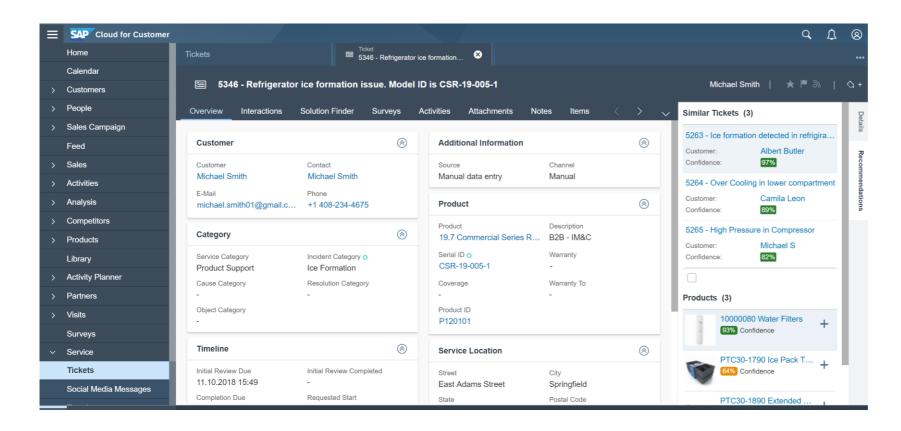
#### Chatbot

- A virtual agent (chatbot) assists the customer with solutions, order status, or other information
- The conversation can be transferred (fallback) to a live agent when needed

#### **Agent**

- Agent has full visibility of the chatbot/customer conversation
- The conversation is saved in Interaction History for future reference

#### Service Ticket Intelligence with Machine Learning



#### **Business Description**

#### **Ticket Time to Completion**

 View a prediction for the time to complete the current ticket, based on past ticket completion times.

#### **Ticket Language**

 Natural language processing (NLP) can identify ticket language.

#### **Multiple Category Catalogs**

 You can use multiple category catalogs for ticket categorization.

#### Similar Tickets - Show More

- View additional similar tickets in the sidebar.
- You can view additional similar tickets if you want to view more solutions that may apply to your current ticket.

#### SAP C/4HANA powered by SAC delivering intelligent insights



#### **SAP Commerce Cloud**

Personalized Shopping Experience across Touchpoints

#### **SAP Service Cloud**

Effortless service experiences with end-to-end Interaction-to-Resolution

#### **SAP Marketing Cloud**

Market with Intelligence in the Moment



#### **SAP Sales Cloud**

Build Relationships and guide Customers throughout their journey

### Intelligent Digital Boardroom









#### **SAP Customer Data Cloud**

**Build Customer Trust and Loyalty** 



**Customer 360** 



#### **Customer Examples**

# BOSCH Driving competitive edge with Customer Engagement

Bosch is a leading manufacturer of automotive parts, sensors, power tools, and other consumer products. Looking for full transparency into customer engagement across various business sectors and processes, Bosch chose SAP C/4HANA and Marketing Cloud to provide a complete 360° view of the customer.

#### **Watch the Video**

#### **CISCO**

Revolutionizing Sales Strategies Through Machine Learning & Analytics

Swiss-based CC Energie implemented Service Ticket Intelligence, as part of SAP Leonardo Machine Learning, to analyze e-mails and identify which action to take such as pushing to high priority or forwarding to the relevant person. This preprocessiong ensure communication is handled in the fastest way possible, helping the company maintain excellent customer service.

#### **Read the Story**

#### **DÖHLER**

Become a digital leader & benefit from SAP Leonardo

On their journey of becoming a digital leader in their industry, natural ingredient provider Döhler focuses on improving and digitalizing of their Leadto-Order process using SAP Marketing, Commerce and Sales Cloud and S/4HANA. Pushing forward Doehler wants to implement SAP Leonardo based IOT and ML solutions to further improve the customer experience.

#### **Read the Story**

#### FC BAYERN MUNICH

Brings Fans Into the Game with SAP Analytics Cloud & SAP CX

As a club, FC Bayern
München Basketball are
delivering solutions to
integrate their fans into the
game. SAP Analytics Cloud
is delivering game statistics
from every player and the
team making information
accessible - enhancing the
fan experience.

#### **Watch the Video**

#### **GEBHARD**

Introducing nextgeneration intralogistics with SAP Leonardo

Gebhardt Fördertechnik developed its new Galileo IoT platform from SAP Leonardo modules, based on the SAP Cloud Platform and the SAP IoT Application Enablement toolkit as well as SAP Asset Intelligence Network. The company has enabled itself and its customers to enter the next generation of intralogistics. Systems are equipped with sensors, and customers have full control over their

machinery – and a better service than ever before.

#### HÖRBIGER

Charting an elegant path toward the intelligent enterprise

As demands for energy increase and natural resources deplete, digitization creates opportunities. At Hoerbiger ,compression technology is used to maximize natural resource extraction. SAP Service Cloud, SAP Cloud Platform and SAP S/4HANA has enabled a 360-degree view of the customer to deliver a superior service.

**Watch the Video** 

**Read the Story** 

## Data Intelligence Vision



#### UNDERPINNING OUR DIGITAL CX STRATEGY

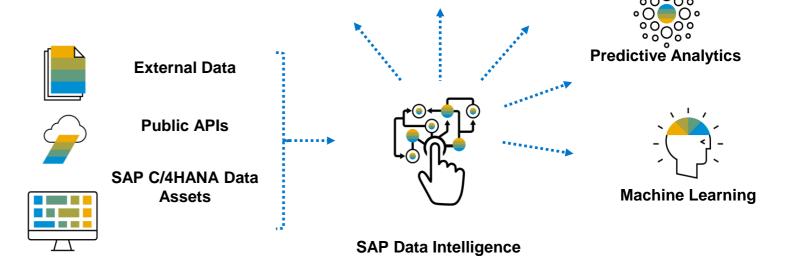






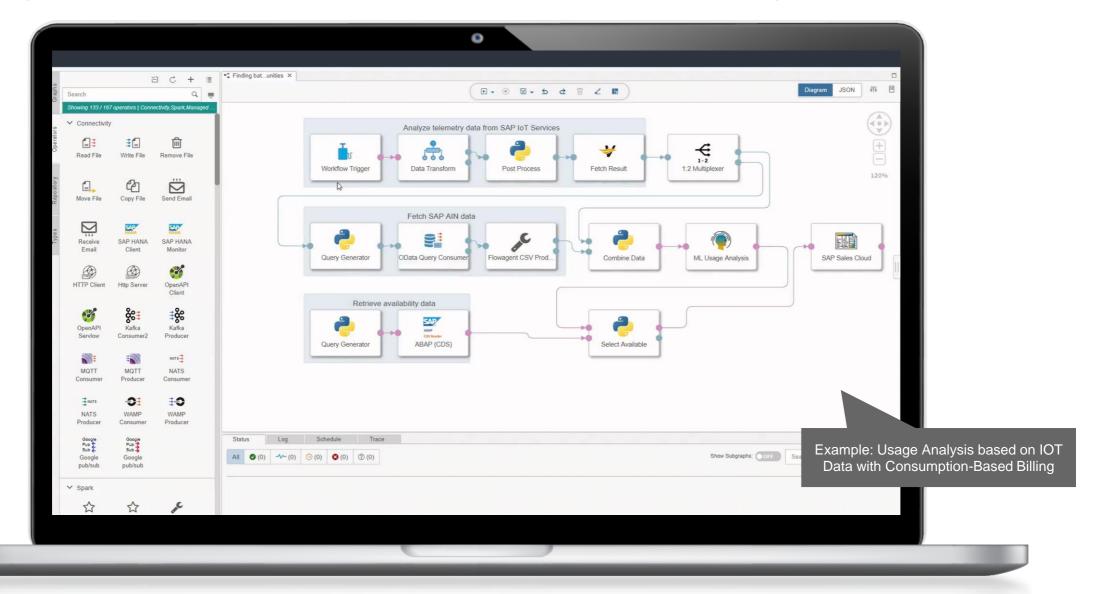
# Transform Customer Experience *Using Data Intelligence*

Semantic Data Lake Strategy



Semantic Data Lake on scalable storage

#### Creating Data Flows with AI/ML Models Across the Intelligent Enterprise





## Thank you. Questions?

#### Contact information:



#### **Sven Feurer**

Sr. Director C/4HANA Suite Product Management Customer Experience

SAP SE
Dietmar-Hopp-Allee 16
69190 Walldorf, Germany

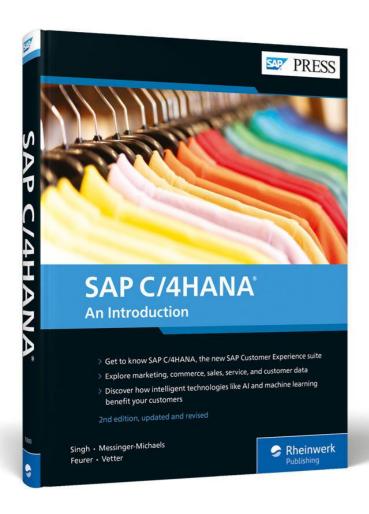








#### Get ready for the Customer Experience Revolution with SAP C/4HANA



#### **Table of Content**

Foreword by Alex Atzberger

Chapter 1: SAP C/4HANA at a Glance

Chapter 2: Marketing Cloud

Chapter 3: Commerce Cloud

Chapter 4: Sales Cloud

Chapter 5: Service Cloud

Chapter 6: Customer Data Cloud

Chapter 7: The Extension Factory

Chapter 8: The Intelligent Enterprise

Chapter 9: Intelligent Technologies

Chapter 10: First Steps to SAP C/4HANA



#### How do I purchase the book?

The book has been released in April 2019. Order your copy online:

https://www.sap-press.com/sapc4hana 4852/

#### \*\*\* Special Discount for SAP User Group Members \*\*\*

We're happy to offer ASUG and all other user group members a special discount of 22 % on their book purchase. Simply enter the code: SAPUSERGROUPS

#### Follow us









#### www.sap.com/contactsap

© 2019 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.

The information contained herein may be changed without prior notice. 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 or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP 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 platforms, 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, and they should not be relied upon in making purchasing decisions.

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. All other product and service names mentioned are the trademarks of their respective companies.

See www.sap.com/copyright for additional trademark information and notices.

