

# C1: SAP Data Intelligence Platform

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**PUBLIC** 



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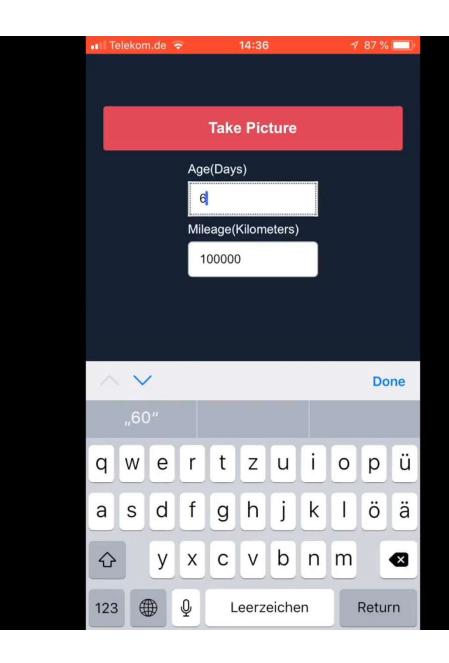
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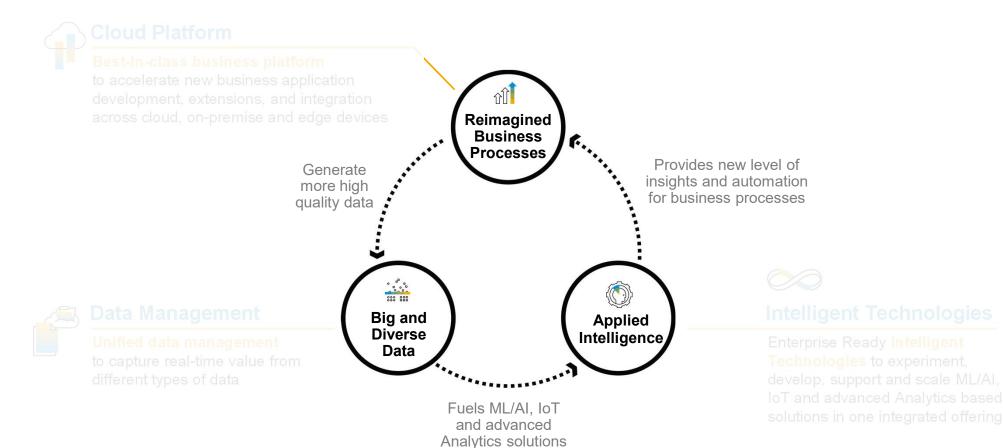
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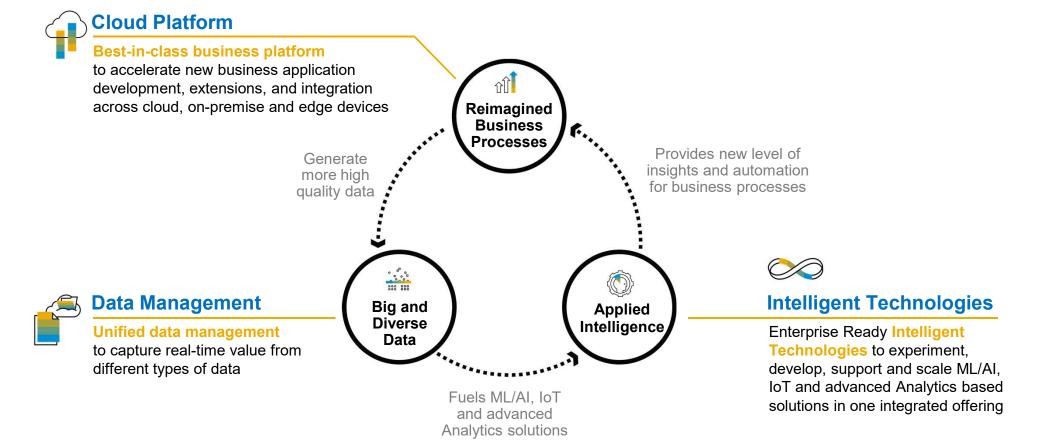




## The Virtuous Cycle of Innovation

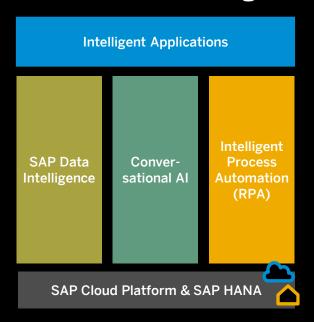


### The Virtuous Cycle of Innovation

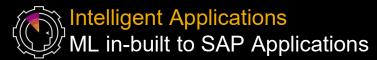


#### **Data enabled Innovations**

# **SAP Leonardo Machine Learning**



How SAP ML drives the intelligent enterprise:





SAP Data Intelligence: Enterprise machine learning at scale, in production



SAP Conversational AI: Interacting with computers using natural human language

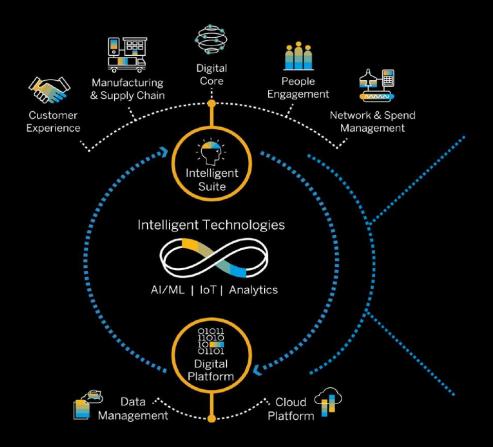


Intelligent Robotic Process Automation:

Executing repetitive human tasks

Key takeaways & Q&A

## **Insight into the Intelligent Enterprise – Machine Learning**



70+ unique
machine learning
enabled scenarios in
SAP by end of year

- automation
- user experience

## SAP Leonardo Machine Learning Applications

#### SAP Leonardo Al Business Services



# Document Classification Classification of unstructured documents

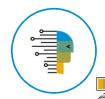


Document Information Extraction

Automatically extract information from unstructured documents



Service Ticket Intelligence
Automatic ticket
classification and solution
recommendation



<u>Data Attribute</u> Recommendation

Automates creation, maintenance, and management of structured data



## Intelligent Invoice Processing Planned 1904

Recommendation of accounting objects to semi-automate FI invoice processing



#### Named Entity Recognition

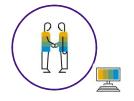
Planned 19Q4
Locate and classify
named entity mentions in
unstructured text into
pre-defined categories

#### Machine Learning Business Applications (embedded)



GR/IR reconciliation
S/4HANA

Automates exception handling processes for all purchase order items



Learning Recommender and People Like Me

SuccessFactors
Helps employees upskill and grow with personalized recommendations for learning and career



#### Product Recommender

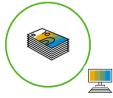
C/4 Commerce - Planned
Provides meaningful product
recommendations and
improved search results in
web shop scenarios



#### Intelligent Accruals

S/4HANA - Planned
Propose reliable
of accrual amounts

#### Standalone Applications



Cash Application

Automatically match payments with open receivables and clear payments



### Cash Application, add-on for contract accounting

Planned 20Q1
Automates clearing of payments with open receivables

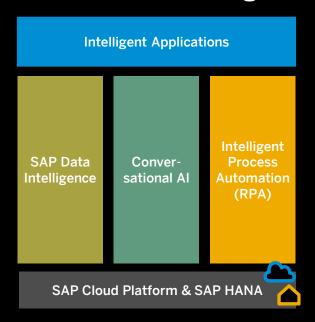


#### Intelligent Insights for Procurement

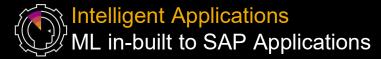
S/4HANA Automates and simplifies procurement processes

#### **Data enabled Innovations**

# **SAP Leonardo Machine Learning**



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Key takeaways & Q&A

### SAP Conversational Al provides a powerful, enterprise-grade platform



Multilingual: Any language









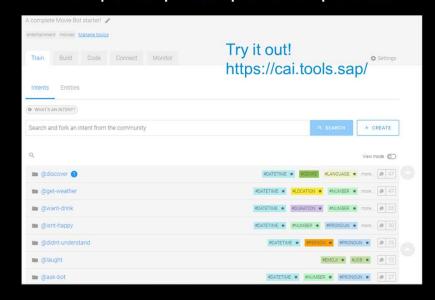






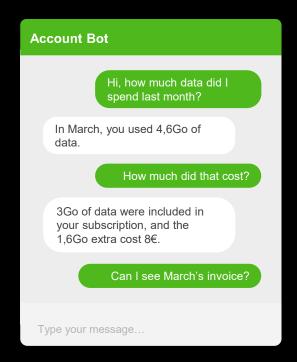


#### **End-to-End Collaborative Bot Building Platform** Train | Build | Code | Connect | Monitor

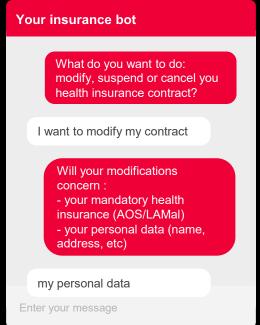


### **SAP Conversational Al**

#### Example implementations in mission-critical processes



SAP CAI manages 22% of all customer requests for topics like invoices and PIN resets for one of the largest telecom providers.

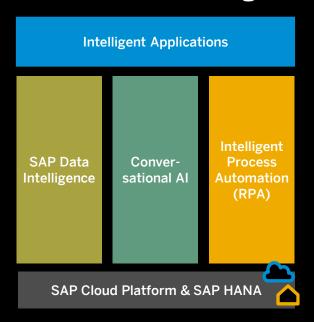




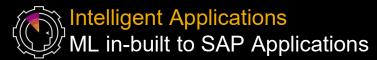
A Swiss insurance company allows customers to modify contracts via the bot, so the service team avoids adding staff during peak periods.

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Key takeaways & Q&A

## What is SAP Intelligent RPA?



Robotic Process Automation (RPA) accelerates digital transformation of business processes by automatically replicating tedious actions that have no added value.

#### **Attended**

Partially automated process, where robots are co-working with humans, also called **Robotic Desktop Automation (RDA)** 

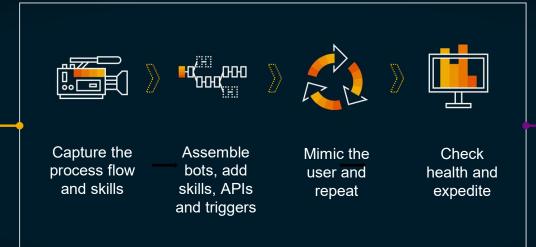
#### **Unattended**

Fully automated process, where robots are working autonomously with human supervision only

## **SAP Intelligent Robotic Process Automation**

Unified cloud solution including on-premise automation tools





- → Third-party tools→ Non-SAP systems→ Legacy
- → Legacy applications
- → Web applications
- → Internet portals



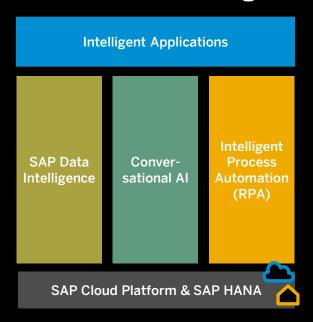




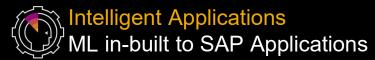
**SAP® Cloud Platform** 

#### **Data enabled Innovations**

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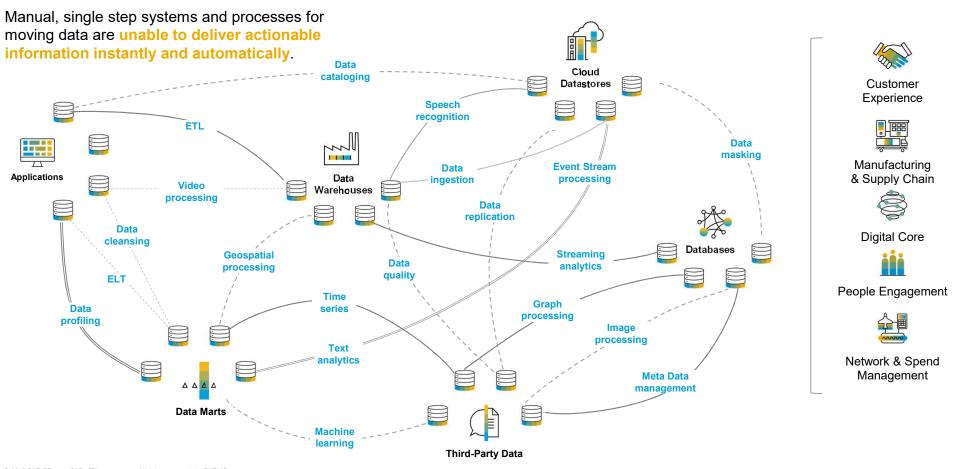
### **Enterprises are struggling with complexity**



74% say their data landscape is so complex that it limits agility

Data sprawl led to tool sprawl, causing siloed data and limited visibility to global data assets

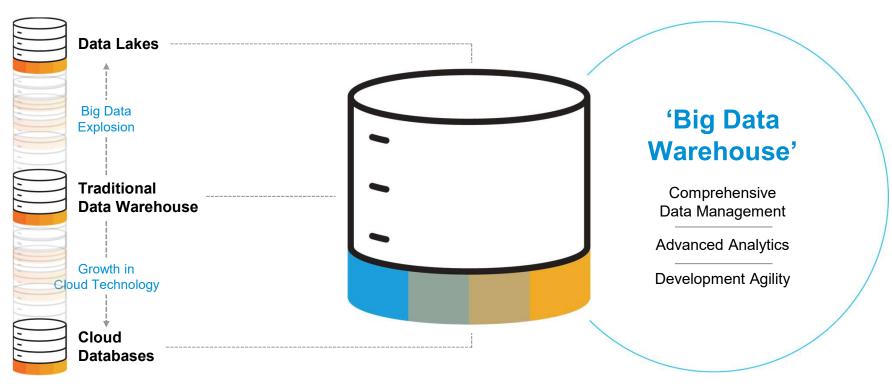
## Data deluge: Distributed landscapes, diverse data, manual siloed operations





## **SAP Data Management**

## The Road to an Intelligent Enterprise



### **Building Data Driven Applications with Intelligence**

#### On-premise & public cloud

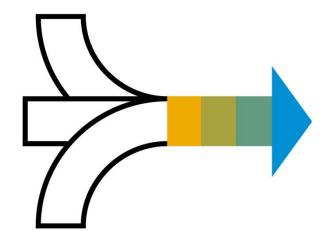
- Discover, refine, govern, orchestrate any type, variety, and volume of data across your distributed data landscape
- Focuses on complex data orchestration & pipelining

#### **Cloud Service on SAP Cloud Platform**

- Includes all SAP Data Hub functionality
- · Additional capabilities by GA
  - Jupyter Notebook integration
  - Scenario manager to manage and deploy ML models
  - Operations cockpit manage and monitor execution

#### Today

#### **SAP Data Hub**



**SAP Data Intelligence** 



# Feature Parity between SAP Data Hub OP & SAP Data Intelligence cloud

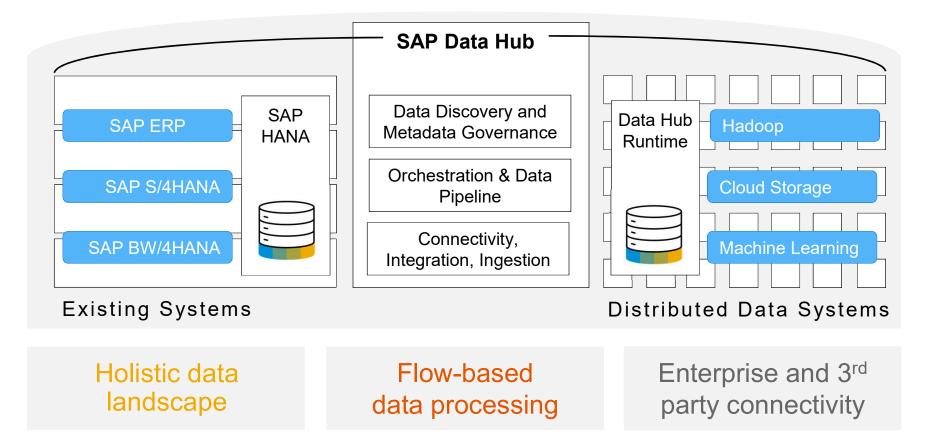
- Product update frequency
  - Cloud updates once a quarter
  - OP updates twice a year

**Tomorrow** 

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#### **Technical Overview**

**Building blocks** 



## **Predictive quality in manufacturing plant**

The business objective: improving Quality Management process

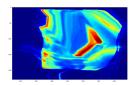


Big and Diverse Data



Applied Intelligence





IR images of components

PRHOOD1007	1,103	803	
PRHOOD1008	1,100	800	
PRHOOD1009	1,100	800	
PRHOOD1010	1,100	800	
PRHOOD1011	1,100	800	
PRHOOD1012	1,100	800	
PRHOOD1013	1,099	799	
PRHOOD1014	1,100	800	
PRHOOD1015	1,102	802	

Pressure sensor measures



Material Master



ML-based extraction of image features



**Predictive Analytics** 

#### **Smart Quality App**



### Use SAP Data Hub to reimagine your business processes using ...

#### Business Application Transformation



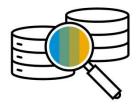
Streamline innovation initiatives around Business Applications, supporting enterprise transformation programs

# IoT Ingestion and Orchestration



Transform IoT event streams into enterprise-ready data, and derive actionable insights

#### **Data Warehousing**



Build a multifaceted data warehouse, across diverse and distributed data assets

# Data Science and Machine Learning



Streamline data science and machine learning, from modeling and development to operations, across all enterprise data assets

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#### **Metadata Catalog and Governance**

Automate metadata discovery, understand data sources, prepare and govern according to data standards, privacy, and security

### **Building Data Driven Applications with Intelligence**

#### On-premise & public cloud

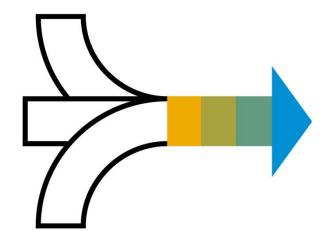
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**SAP Data Intelligence** 



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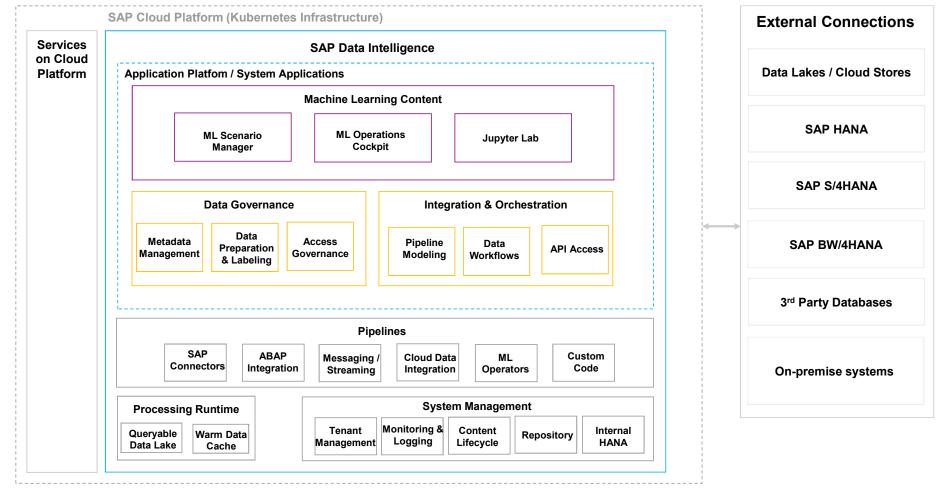
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**Tomorrow** 

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## **SAP Data Intelligence**

**Architecture View** 



### Creating customer specific Innovation - Generic with SAP Data Intelligence

**Create** powerful data pipelines to **leverage** your data projects and to **orchestrate** the data processing

Harness the advanced machine learning content to accelerate and scale and automate your Data Science projects

**Manage** metadata across a diverse data landscape and **create** a metadata repository



SAP Data Intelligence is a comprehensive solution to deliver data-driven innovation and intelligence across the enterprise, unifying scalable enterprise AI and intelligent information management.



Access & connect data



Govern & discover data



Prepare & label data



Build scalable & flexible data pipelines



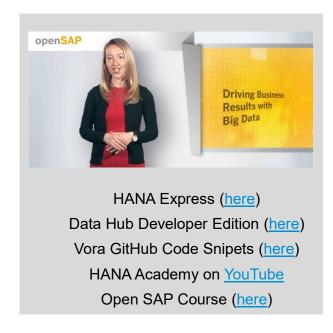
Deploy & integrate intelligent applications



Monitor & orchestrate the lifecycle



### And now what ...?



Self Learning



Workshop



SAP Tech Academy

# Vielen Dank!!

#### Kontakt:



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