

# SAP Data Intelligence - Turning disparate data into valuable assets for business innovation

Silvio Arcangeli, Product Management, SAP Data Intelligence November, 2020 PUBLIC



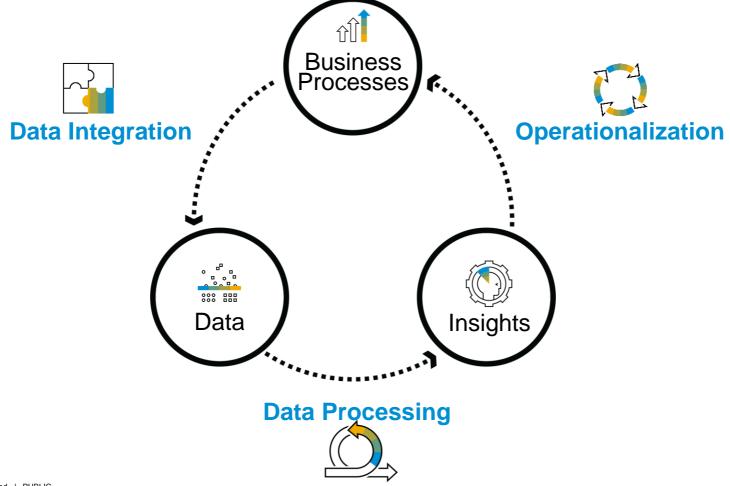
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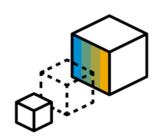
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#### The Data-Driven Journey Towards the Intelligent Enterprise



#### But most enterprises get stuck in the journey!





85%

53%

82%

Innovation initiatives fail to make it to production<sup>1</sup>

Enterprises are not yet treating data as a business asset<sup>2</sup>

Recognize that orchestrating data and processes is critical<sup>3</sup>

<sup>&</sup>lt;sup>1</sup> Gartner research

<sup>&</sup>lt;sup>2</sup> New Vantage Partners' 2019 Big Data and Al Executive Survey

<sup>&</sup>lt;sup>2</sup> Forrester Consulting, 2019

#### Why is Data Management so difficult?

**Enterprise IT is challenged to a whole new degree!** 



#### Integration

"I need to join my sensor data with some image bitmap and with the related master data"



#### **Processing**

"I'm clustering the data in Python to feed a predictive model in HANA"



#### **Discovery**

"What is this data and what does it mean?"



#### Quality

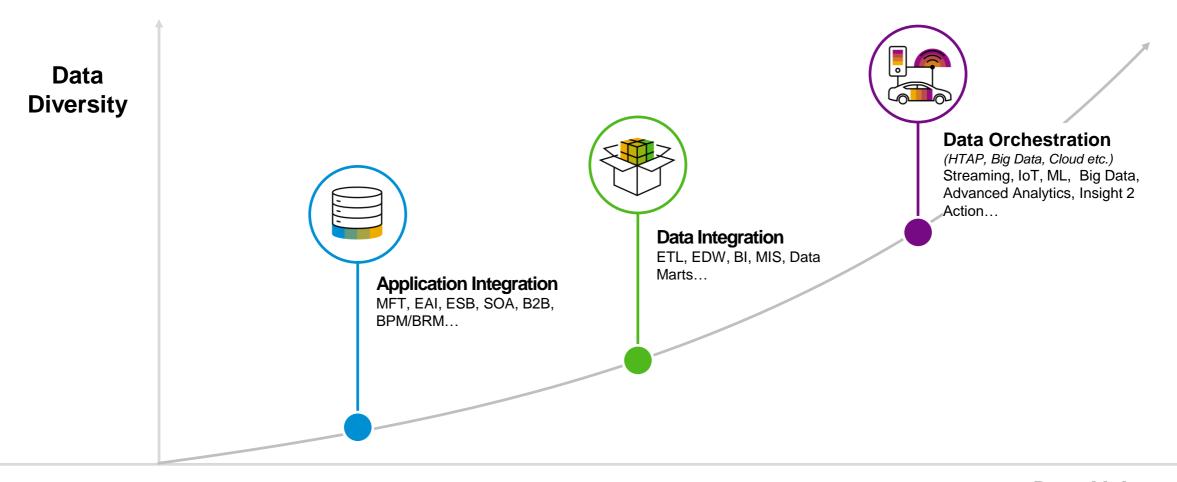
"Can I rely on this data to drive decisions in a critical process? How was it gathered?"



#### **Operations**

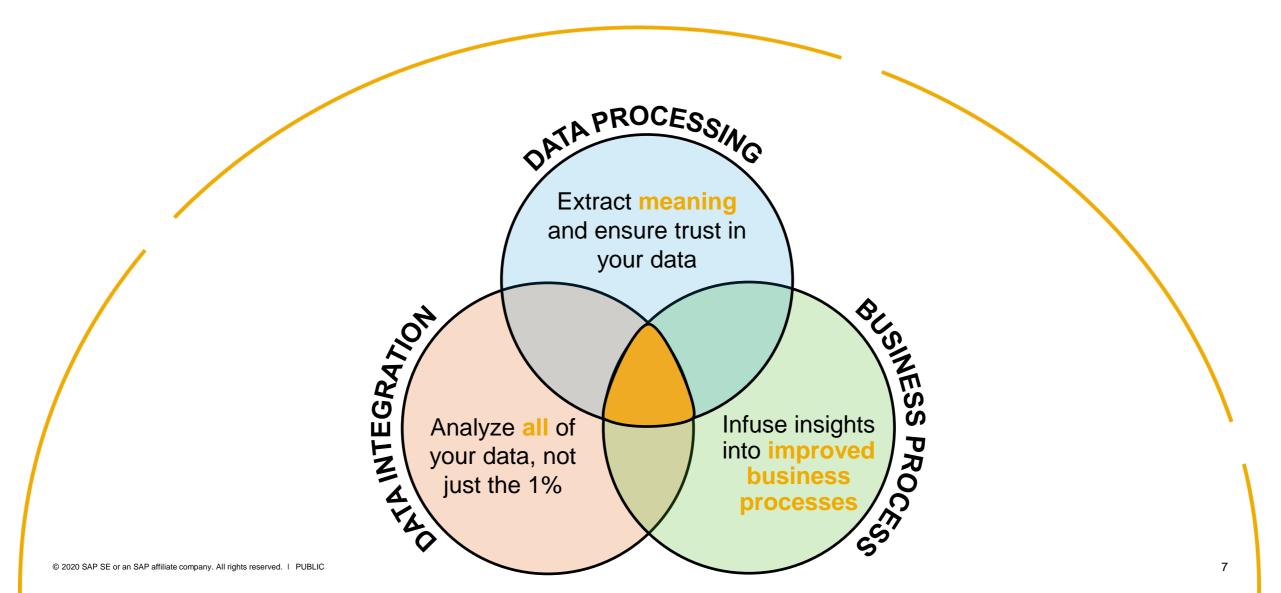
"My data and engines are spread between my on premise data centre and my hyperscaler cloud"

#### The evolution of Data Management in enterprise landscapes



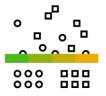
#### **Data Value**

#### **SAP Data Intelligence – From Data Integration to Data Orchestration**

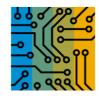


#### A real-life example: HR Best Fit with SuccessFactors

The business objective: find best fits within workforce to cover job postings



**Data Integration** 



**Data Processing** 





SAP HR data



SFSF Seniority data



**ORACLE** Knowledge Scoring Data



**Location Data** 



Areas & Knowledge Data



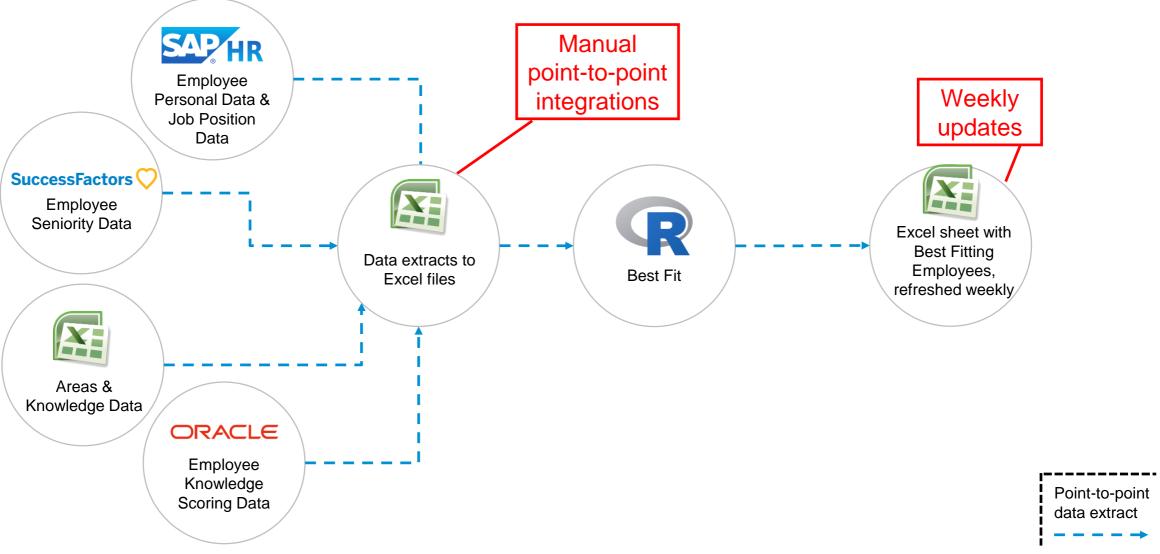
R Best Fit Model



Job posting VS. **Employees** Score

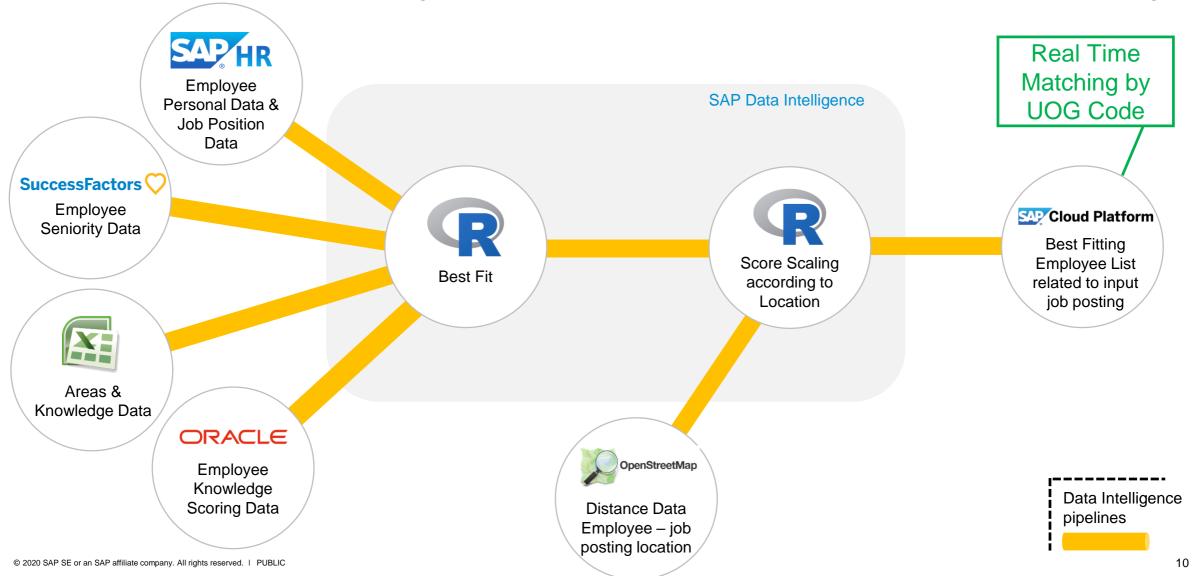
#### A real-life example: HR Best Fit with SuccessFactors

The as-is before Data Intelligence: manual integration and weekly batches



#### A real-life example: HR Best Fit with SuccessFactors

The solution with Data Intelligence: streamlined operationalization, real-time insights



#### SAP Data Intelligence – Delivering modern Data Management to the Enterprise



**Data Pipelining** 

Flexible pipelines spanning structured / unstructured / streaming, batch / (near-)real-time, OLTP and OLAP, across any cloud and onprem deployment.



**Orchestration of** Heterogeneous Data Processing

















Metadata crawling, browsing and profiling; data lineage, data preparation, data anonymization and privacy enforcement

#### **SAP Data Intelligence**

#### Data pipelines integrate disparate data across distributed infrastructures





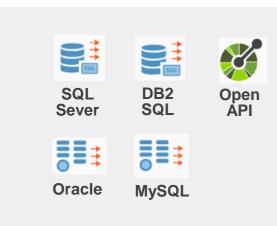
Unstructured Data



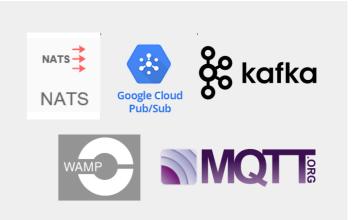
Streaming Data











#### **SAP Data Intelligence**

#### Orchestrate several heterogeneous processing engines



































... across distributed infrastructures, cloud and on-prem, minimizing data movements







#### **SAP Data Intelligence**

#### A centralized Data Catalog for your enterprise data governance

Data discovery, browsing and profiling

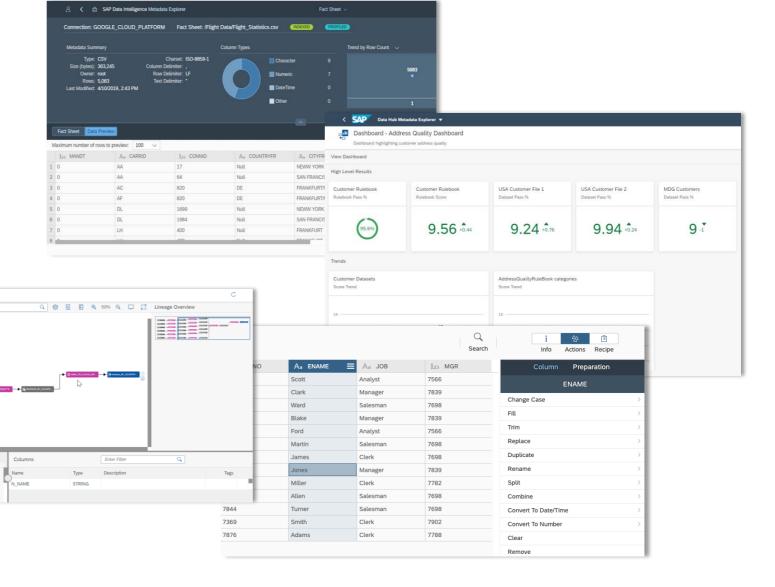
Dataset Lineage: /GCS\_CONN/output/revenue\_BY\_COUNTRY\_AND\_REGION.csv

LINEAGE

NOT PROFIL...

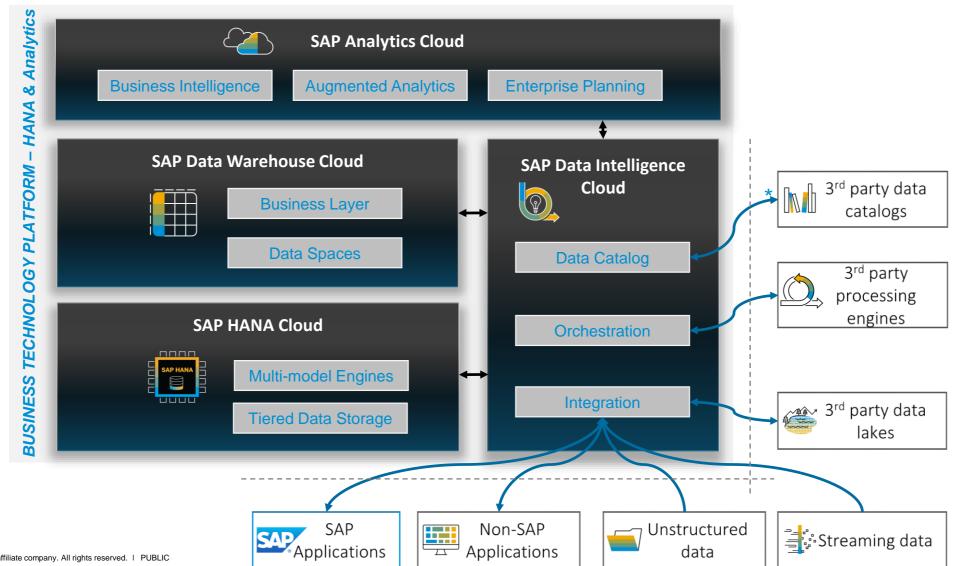
E RESON C TW. SANTE SEND'S.

- Self-service Data Preparation
- Data lineage
- Data quality rules and scorecards



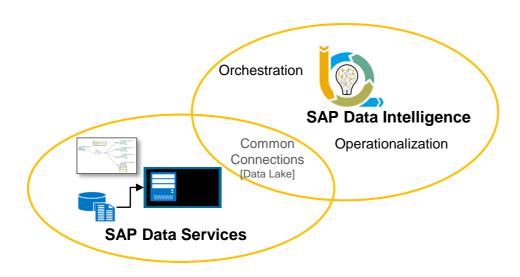
#### SAP Data Intelligence + SAP HANA Cloud + SAP Data Warehouse Cloud

#### **Enabling and end-to-end data fabric**

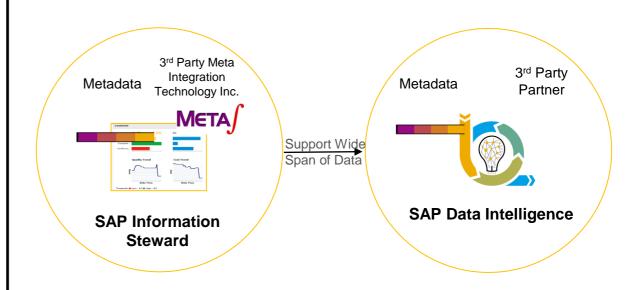


#### SAP Data Intelligence and SAP on-prem EIM tools

#### **Enabling and end-to-end hybrid data management**



- Extend reach of Data Services assets across diverse system landscapes
- Orchestrate Data Services jobs within Data Intelligence pipelines
- Enhance enterprise business processes with high value data and insights from external systems



- Reuse Information Steward rules within Data Intelligence
- Shared glossary of terms
- Metadata shared across applications, augmented by ML learning models

#### **Upcoming Innovations**



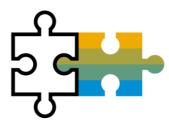
### Operations & Administration

Workload Management, Debugging,
Back Up & Recovery, Cloud Connector Support,
Versioning, Lifecycle Mngt



### Integration with HANA Cloud / DWC

End to end data pipelining for HANA Cloud & Analytics Cloud



### Deeper Application Integration

Align integration model to consume and interact with Apps



### Intelligent Processing

Apply ML and intelligence in modelling and cataloging, simplification of workflow



### Content & Templates

Offering out-of-the-box templates and modeling wizards



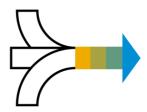
### **Extend Span of Connectivity**

Enhanced connectivity to Cloud Services (e.g. DWHs), improved file handling



#### **Data Governance**

Predefined glossary terms,
Support lineage at column level,
Auto extraction of lineag
ABAP Lineage object level extraction



**Hybrid Capabilities** 

Consolidate functions and foster hybrid on-premise / cloud scenarios with EIM portfolio

#### **SAP Data Intelligence – Why it is different**



Discover and catalog your data, integrate it and orchestrate, manage ML operations, all in one single product.



Adaptable architecture built on open technologies, available asa-service, or BYOL in the cloud on any hyperscaler or on premise.



Natively reuse and connect all SAP on prem technologies (HANA, BW, Data Services, SLT etc.)

## Thank you.

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