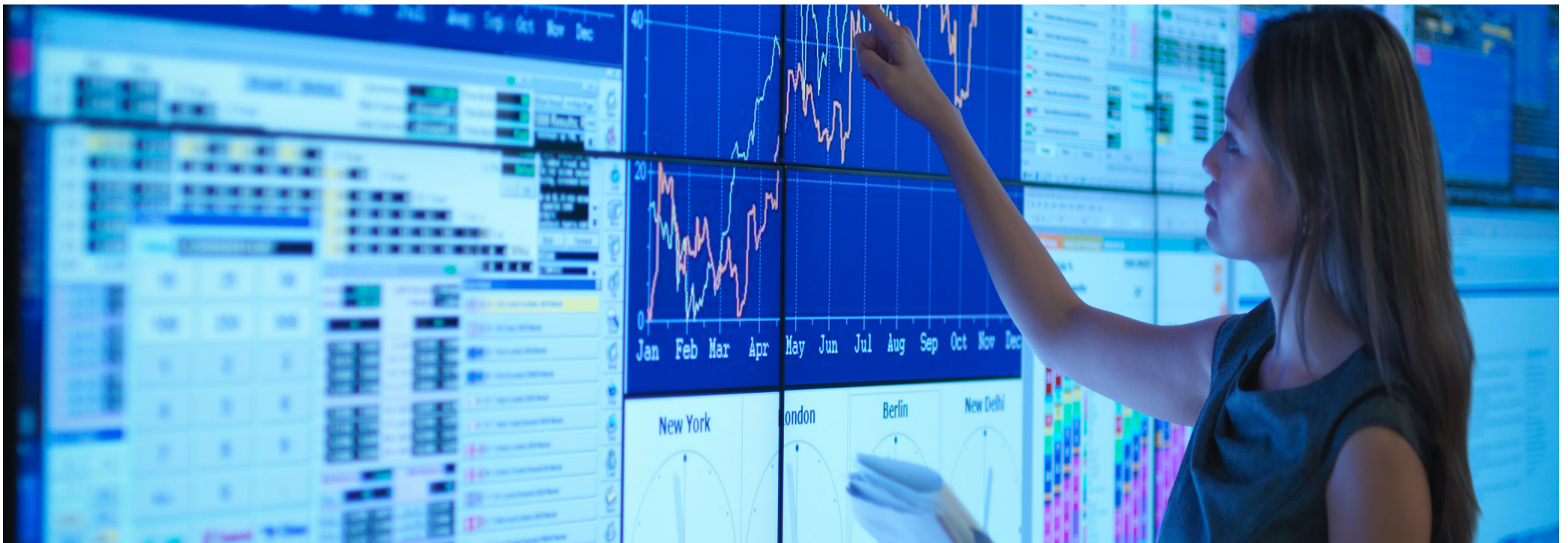


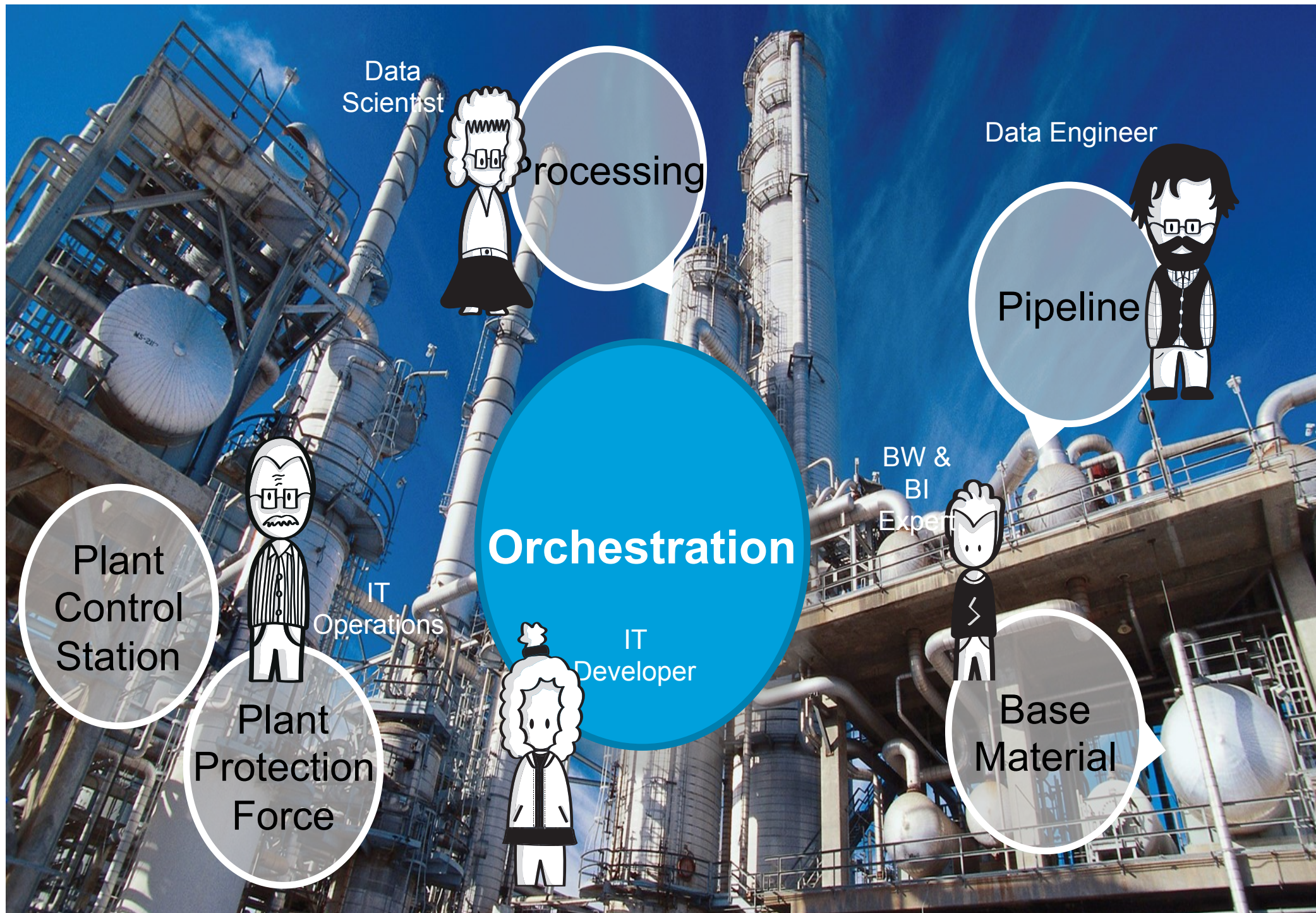


SAP Data Hub

Orchestrating the Intelligent Enterprise

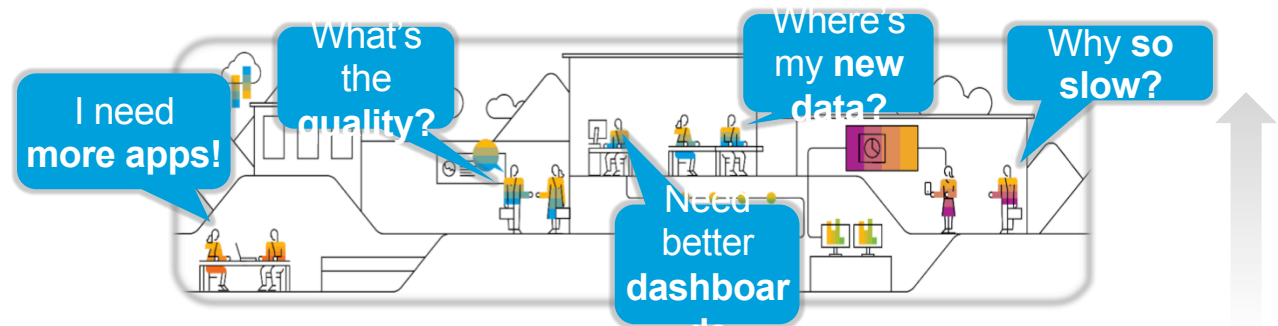
March 26th, 2019
Dr. Christian Tietz
Product Management SAP Data Hub





Challenges in Today's Enterprise Landscapes

Enterprise data landscapes have become chaotic and unmanageable



LANDSCAPE CHALLENGES

GOVERNANCE

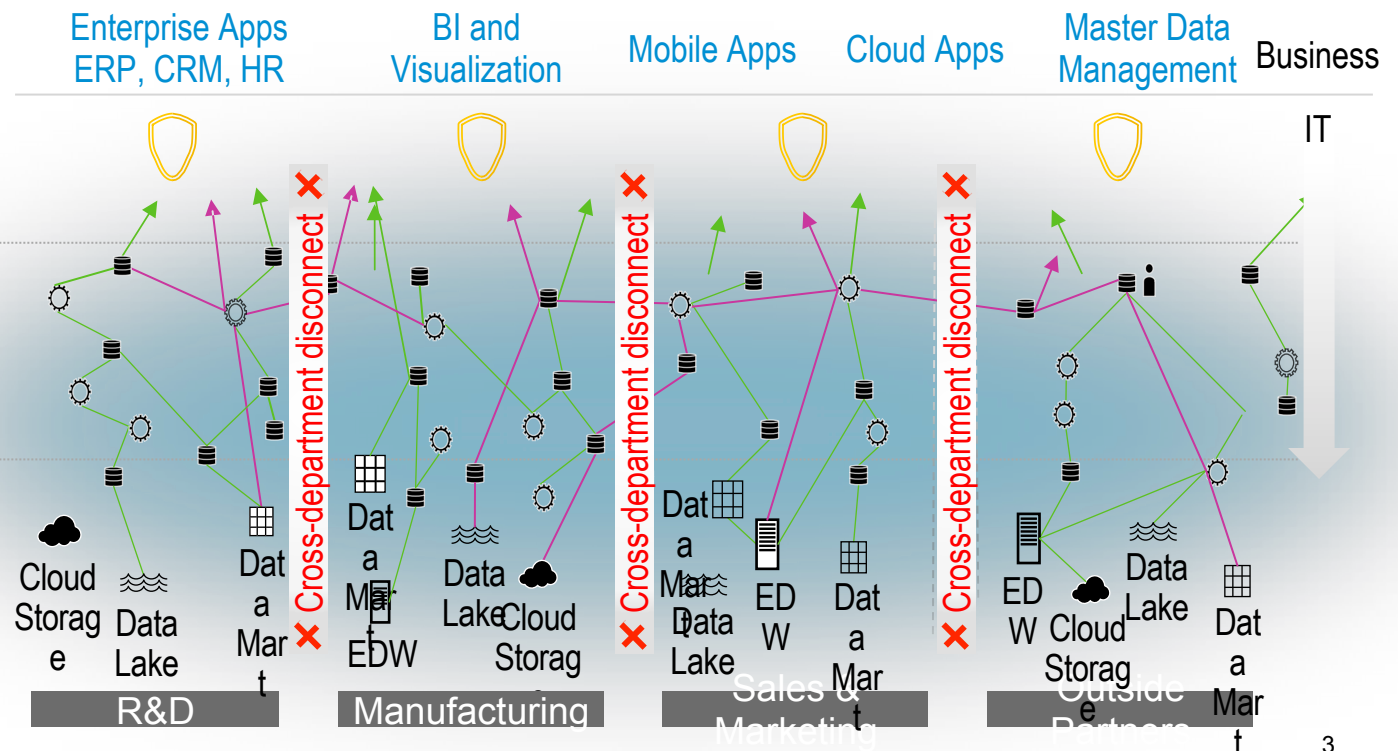
Lack of visibility. Who changed the data? What was changed? Who is accessing it?

PIPELINES

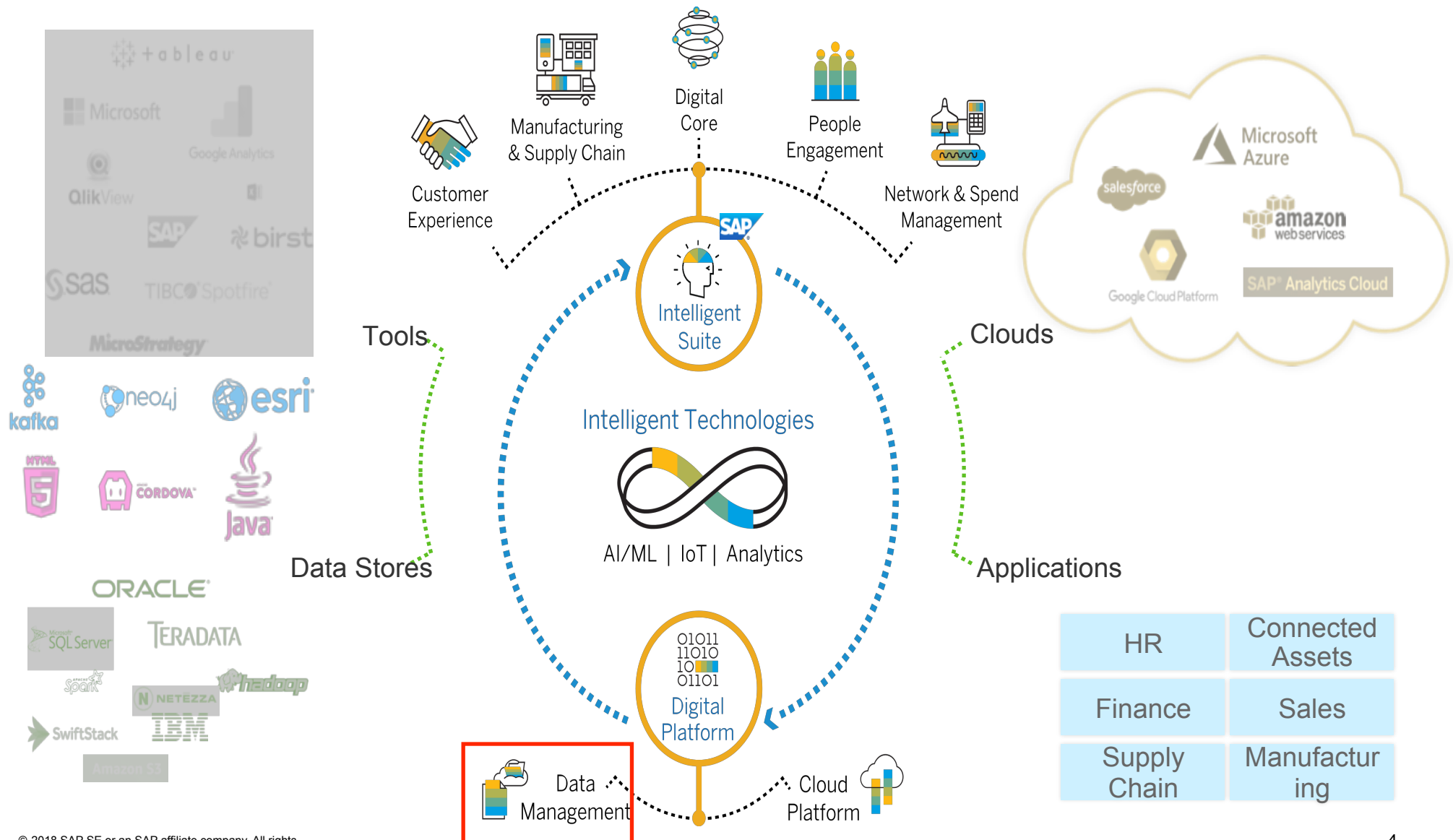
Too hard to refine and enrich data across multiple systems.

DATA SHARING

Integration is manual, point-to-point, painful, and slow.



Deliver the Intelligent Enterprise



What is Data Management about?

Topics in Data Management include:

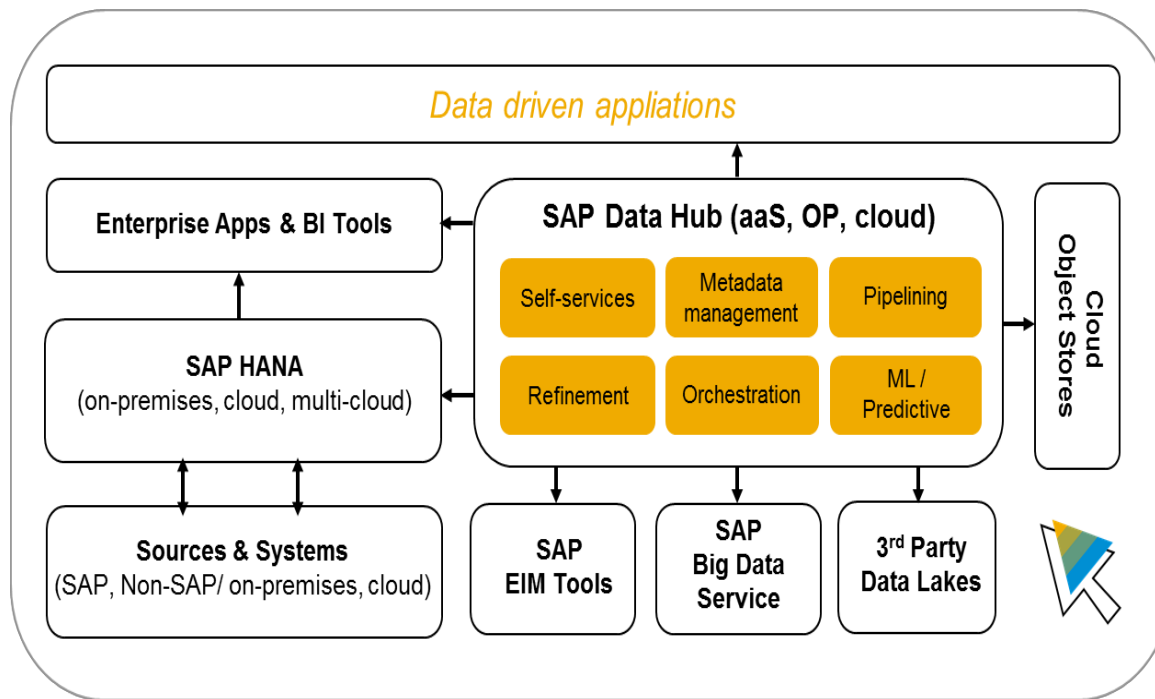
- Data Governance
- Data Architecture
- Data Modeling & Design
- Database & Storage Management
- Data Security
- Reference & Master Data
- Data Integration
- Documents & Content
- Data Warehousing & Business Intelligence
- Metadata
- Data Quality

*Source: https://en.wikipedia.org/wiki/Data_management

SAP Data Hub

What is it?

Vision: SAP Data Hub enables the intelligent enterprise by providing an all-in-one data management solution that governs, integrates, processes and orchestrate any volume, velocity and variety of data in on premise, cloud, multi-cloud and hybrid distributed system landscapes.

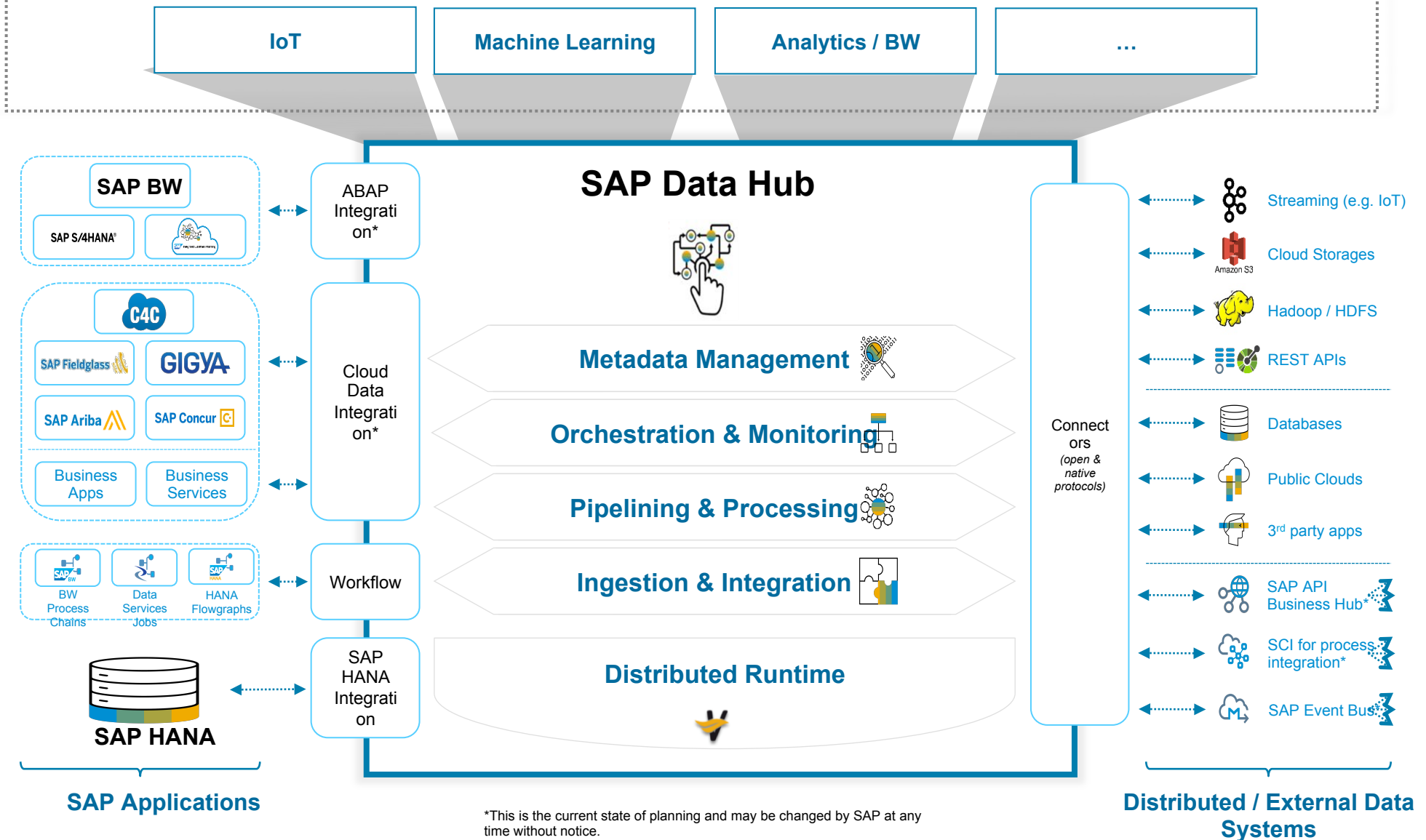


Strategy:

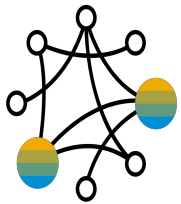
- Strong focus on enterprise application integration (SAP S/4HANA, SAP Hybris solutions, SAP BW4/HANA ...)
- Investment in delivering predefined content
- Self-learning metadata governance
- Embracing ML/AI and data science models
- Leveraging scalable deployable models for distributed data processing
- Integrating and embracing EIM solutions from SAP
- Open Big Data-centric architecture with open source and 3rd-party integration
- Support for any cloud deployment and offering SAP Data Hub as a service

SAP Data Hub – Unified Data Integration for the Intelligent Enterprise

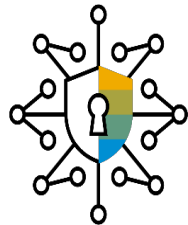
Data-driven Applications



How to (not) use SAP Data Hub?



Rapidly integrate and use new data sources



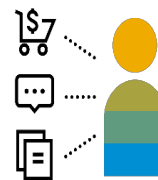
Ease the cost and effort of data compliance



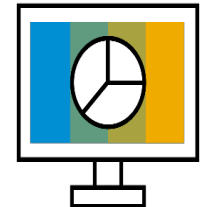
Understand real-world performance



Use machine learning and predictive analytics



Deliver a data management suite or a data warehouse



Deliver a new analytics environment



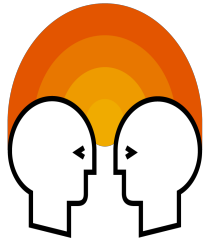
Deliver a stand-alone ETL suite



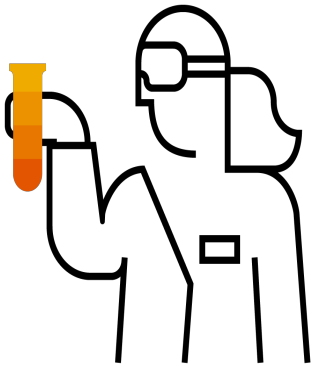
Be a distributed database engine

From Innovations to Business Applications

Idea



Pilot



Production



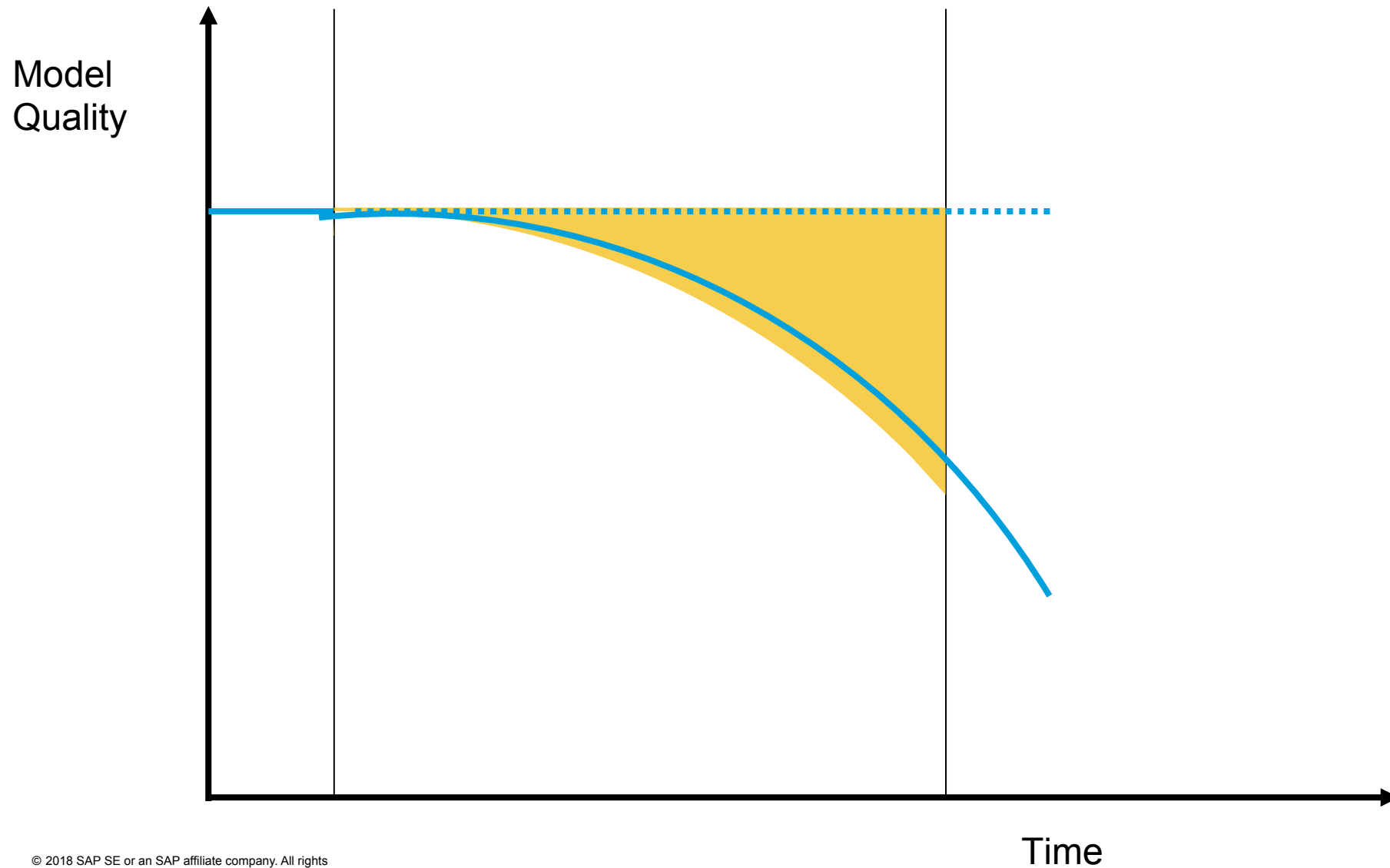
Project costs



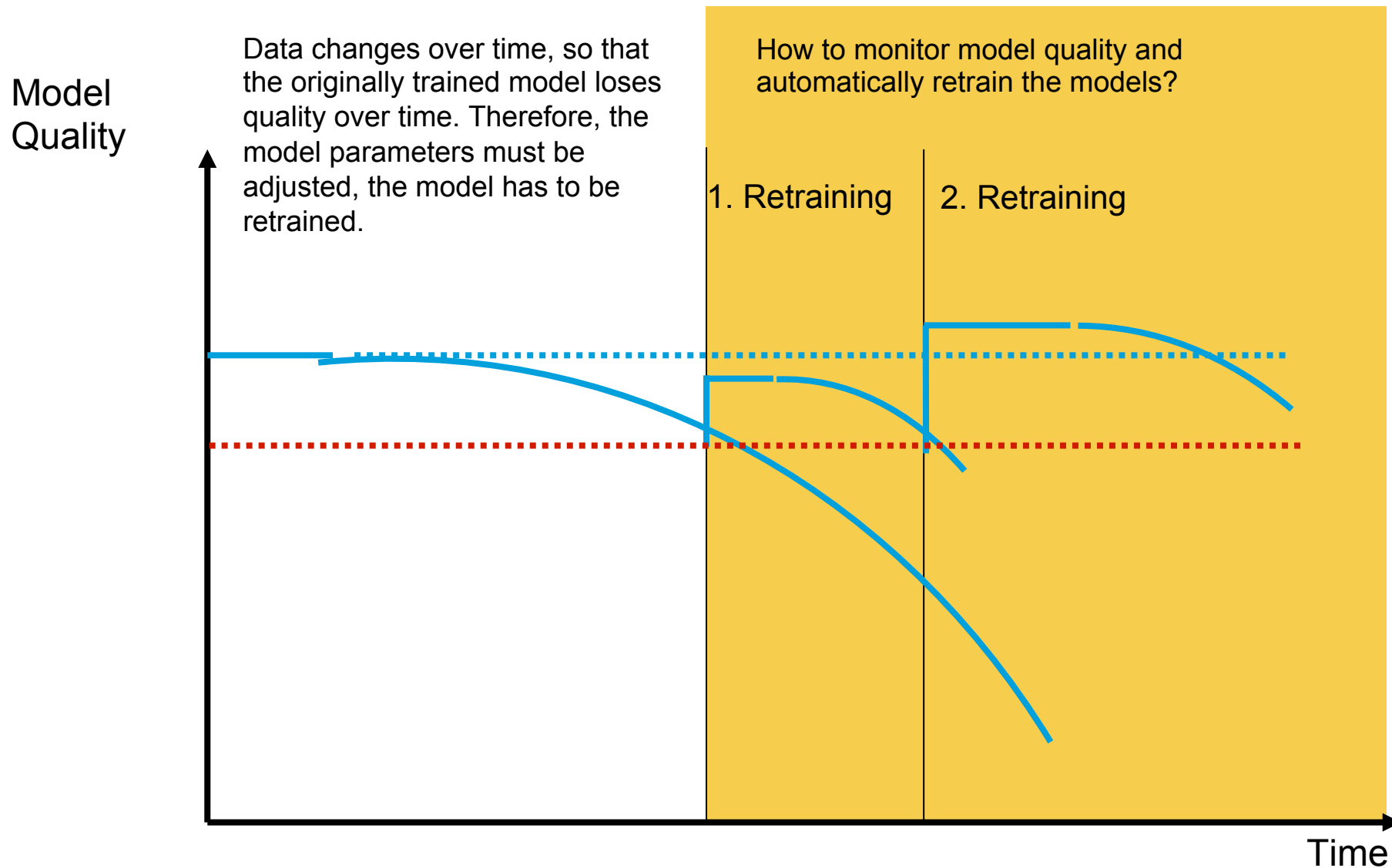
Projekt brings profit



Usually the model quality decreases over time



Model Monitoring & Management



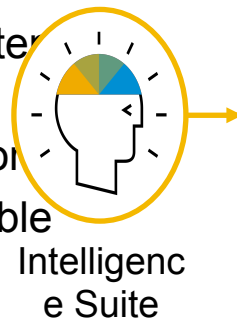
SAP Data Hub Roadmap

Data science and machine learning

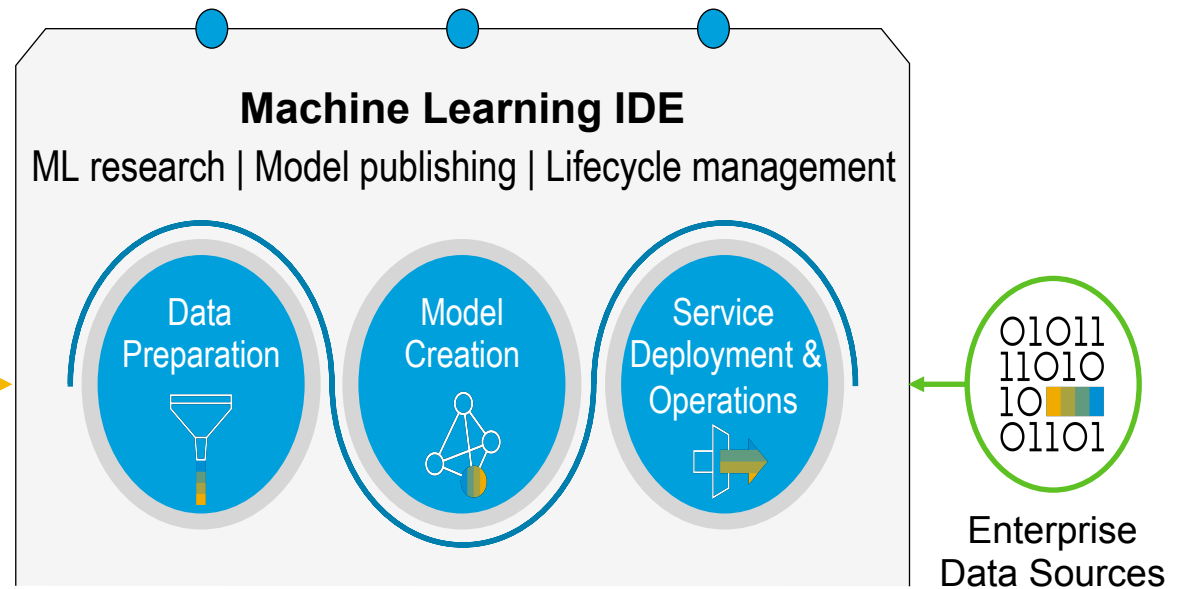
Goal / Vision

Building an open, scalable, complete machine learning & data science platform

- SAP Data Hub as foundation and flexible execution environment
- Tight integration into existing machine learning services
- Manage thousands of models in production
- Automate retraining, maintenance and retirement
- Embed into SAP application
- Stay compliant and auditable

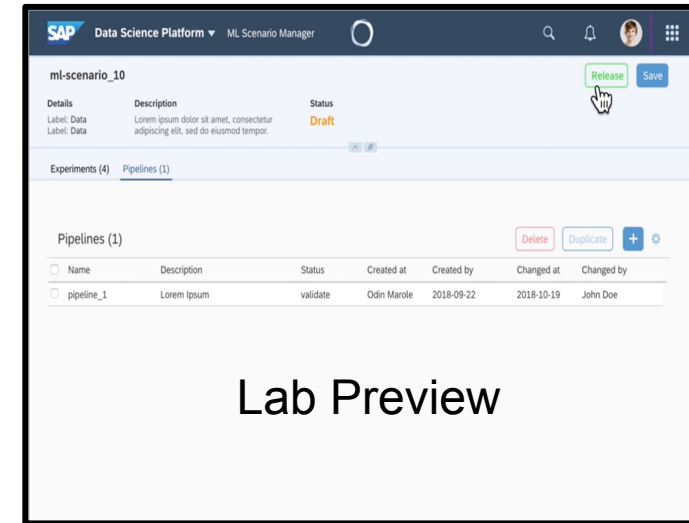
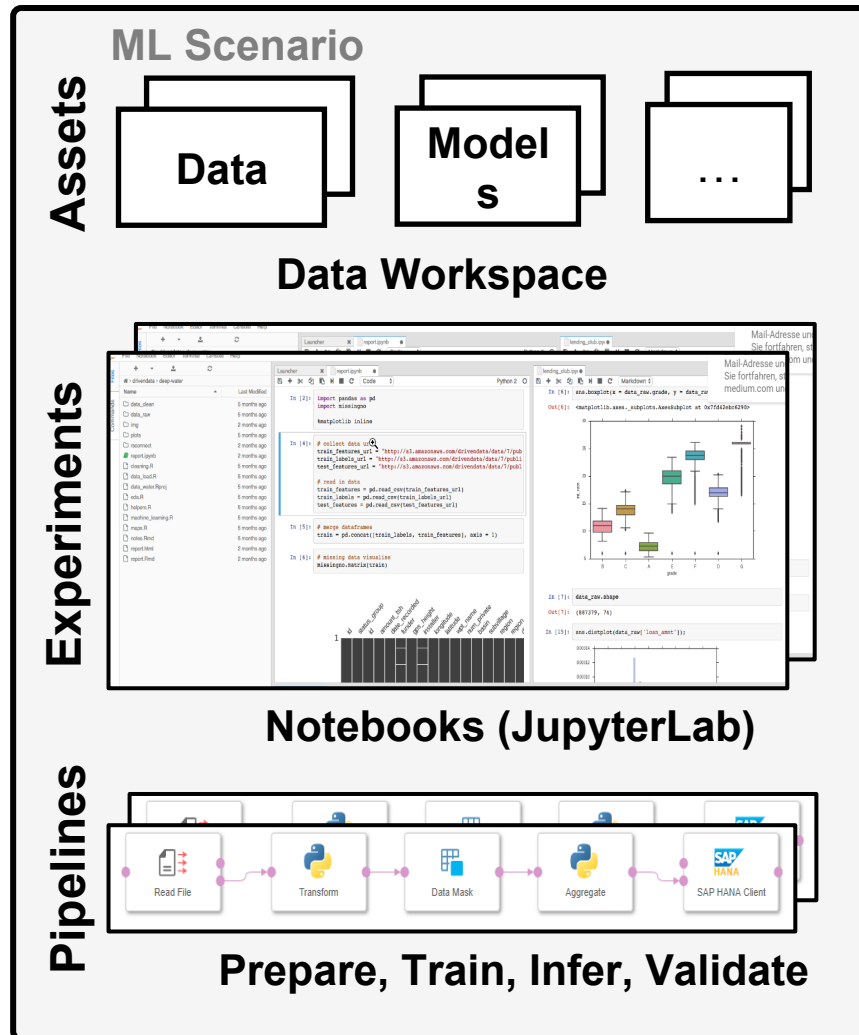


Machine Learning & Data Science Platform Orchestration | Integration | Operationalization



Data Management Use Case

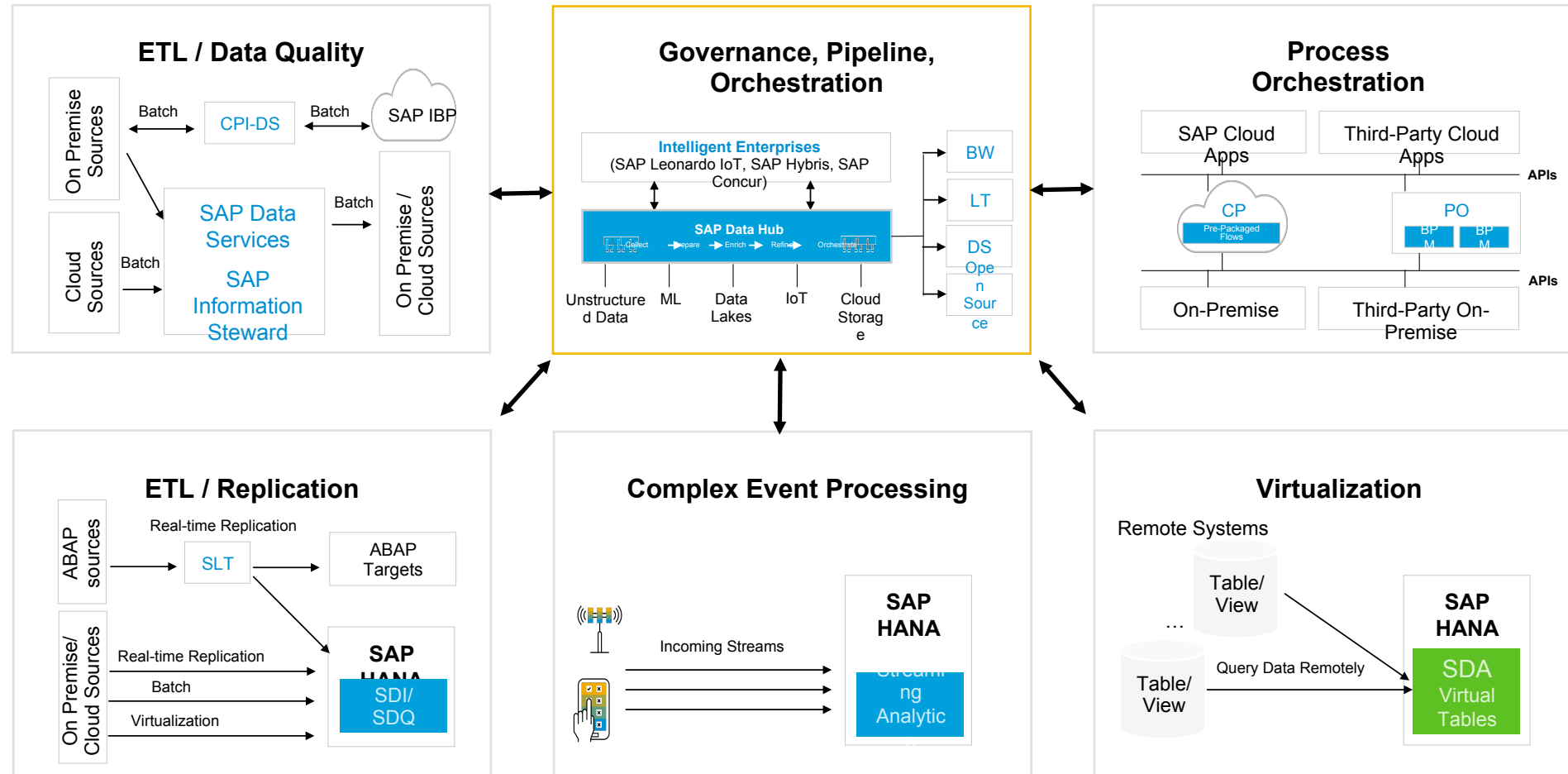
Data Science and Machine Learning



Lab Preview

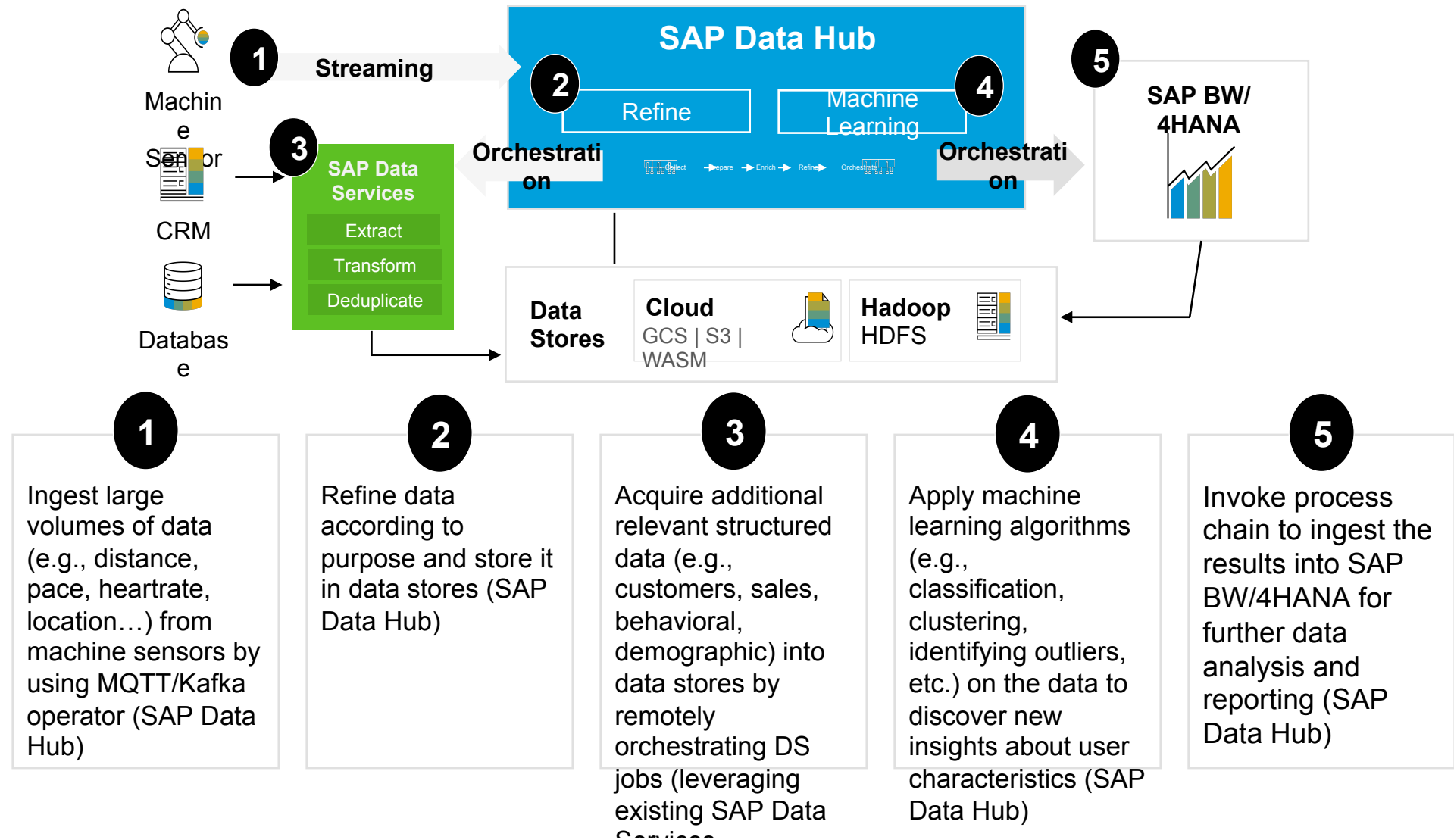
- **End-2-End tooling support:** from business question to deployment/delivery
- **Full reproducibility:** Every object is tracked, versioned (utilizing Git)
- **SAP Data Hub connectivity, and data preparation/profiling** can be fully utilized

Data Integration Technologies by Purpose



Orchestration with SAP Data Hub

Example: SAP Data Services and SAP Data Hub



Thank you.

Dr. Christian Tietz,

Product Management, SAP Data Hub

christian.tietz@sap.com

Demo



Get started with SAP Data Hub

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