

The background of the slide features a person's hands typing on a laptop keyboard, with the laptop screen visible. The entire image is overlaid with a semi-transparent blue filter. A large, stylized circular graphic, resembling a film reel or a data path, is centered over the image. The text 'SAP Data Warehouse Cloud' is written in white, and 'Overview' is in yellow.

# SAP Data Warehouse Cloud Overview

Klaus-Peter Sauer, Product Management Data Warehouse Cloud, SAP SE  
July 2021

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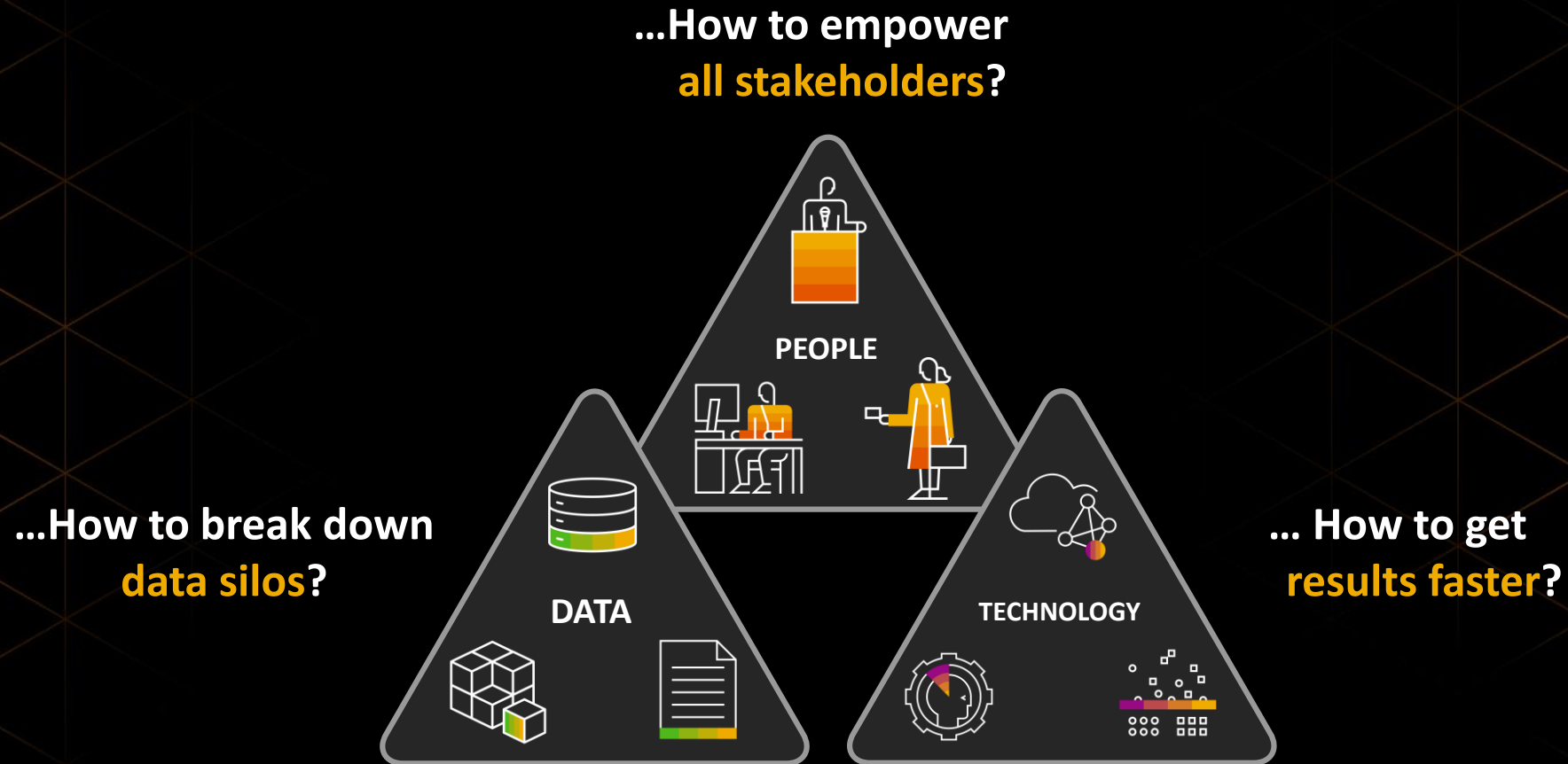
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# Overview.



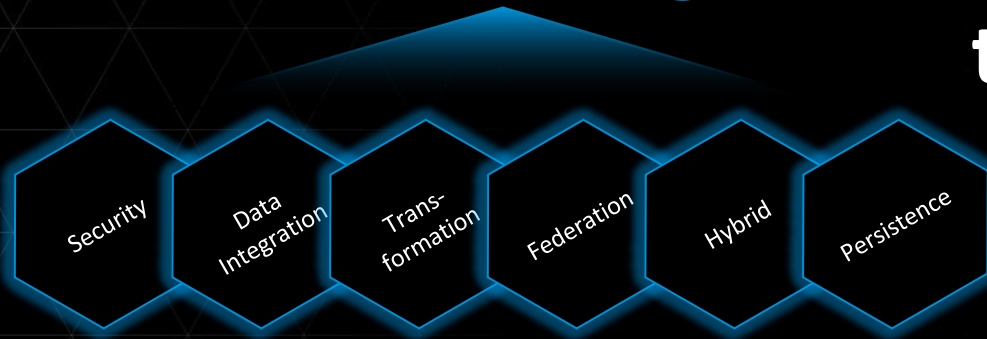
# The Challenge: **Data and Analytics**



## SAP Data Warehouse Cloud

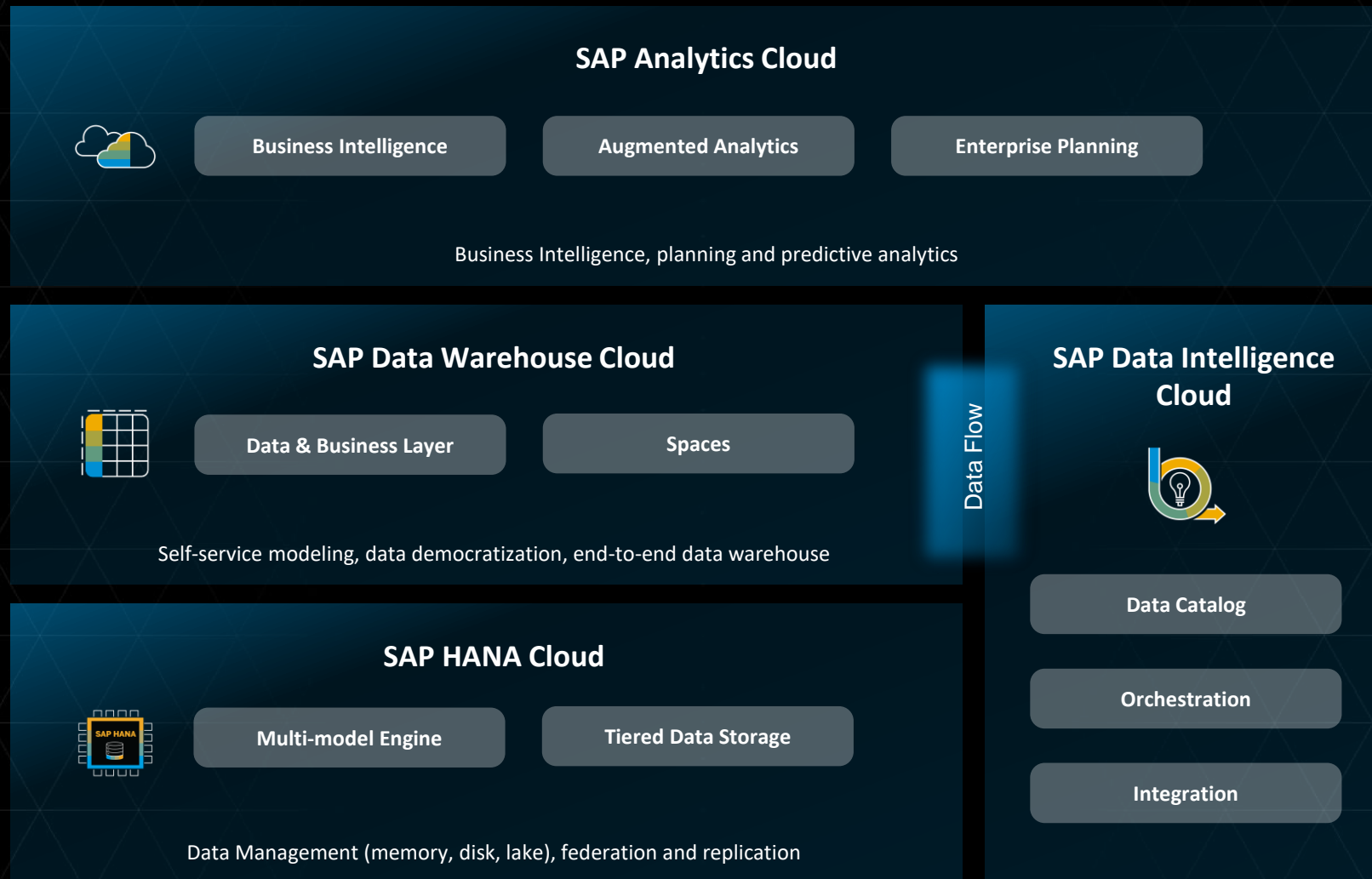


**SAP Data Warehouse Cloud** goes beyond classical Data Warehousing and brings IT and Business together

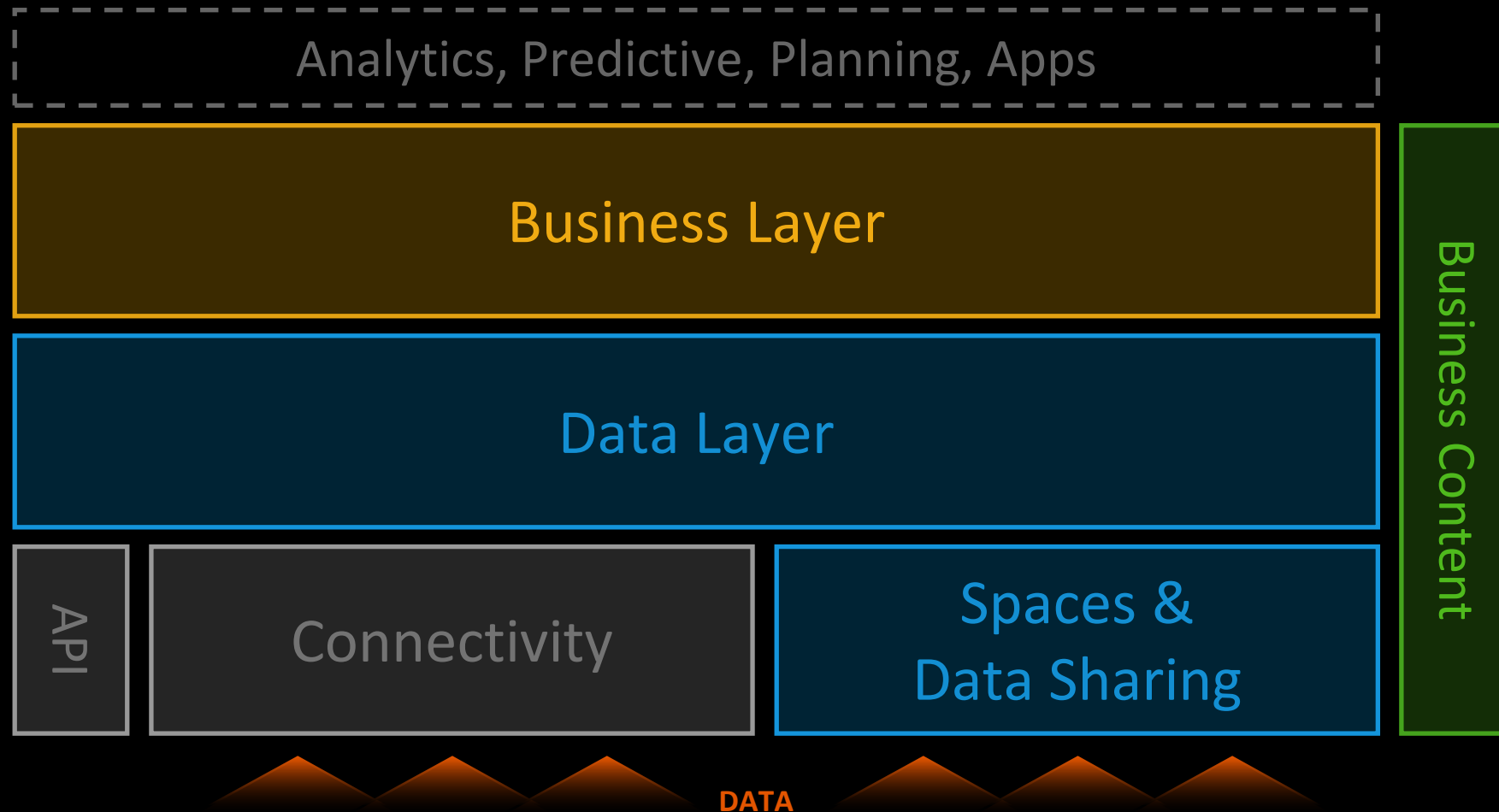




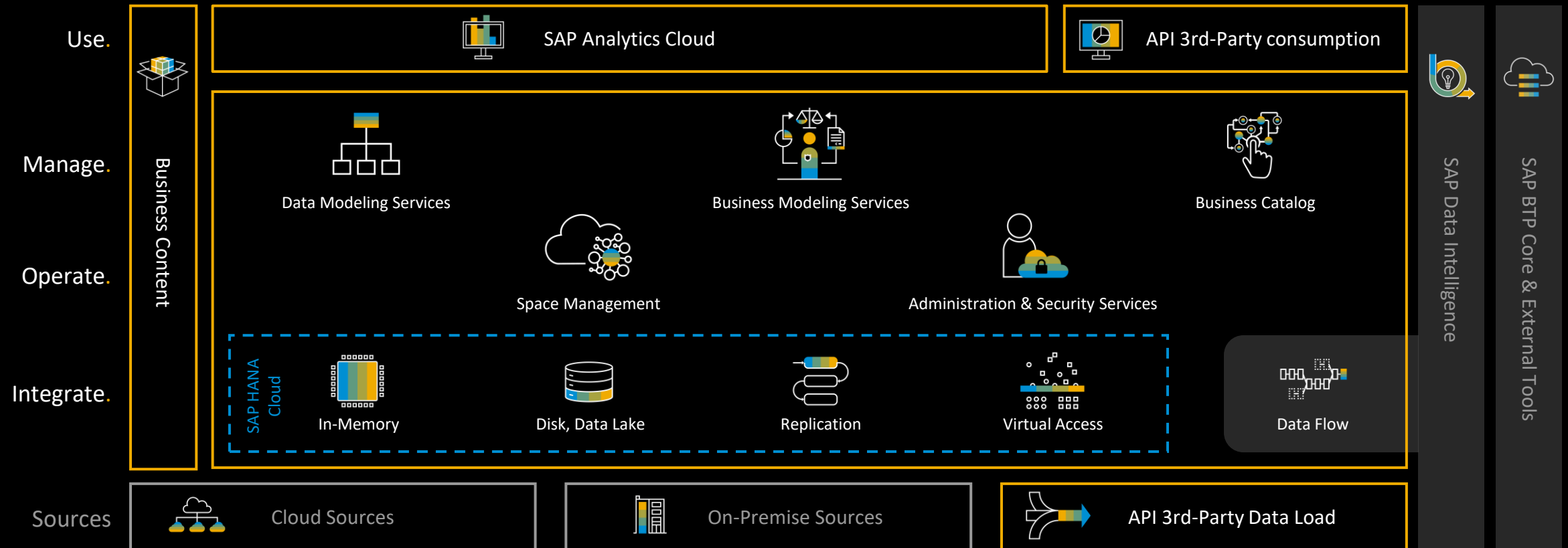
# SAP Data Warehouse Cloud and the SAP Business Technology Platform



# SAP Data Warehouse Cloud. High-level Component Overview



# SAP Data Warehouse Cloud. Architecture



Provide your users an end-to-end view of their data landscape that is trusted, secure, and actionable



# Integrate.



# Integrate. Open for Virtual Access and Persistence

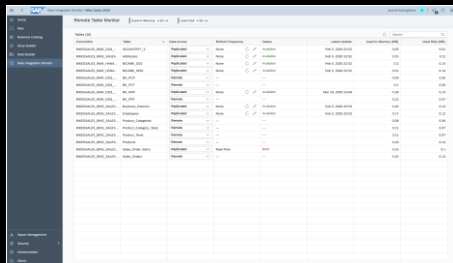


## REMOTE TABLES

### Virtual Access

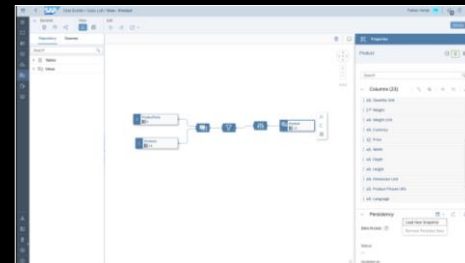


### Persisted



#### Realtime virtual data access

- Leave data in the source system and access remotely when needed
- No upfront data movement
- Federation is supported across various sources and hyperscalers

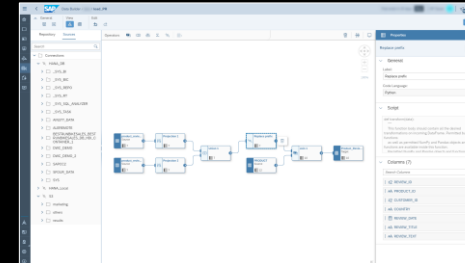


#### Single table replication

- Real-time table replication for up-to-date data
- Materialize views and update snapshots using automated, scheduled data loads

## CLASSIC DATA INTEGRATION

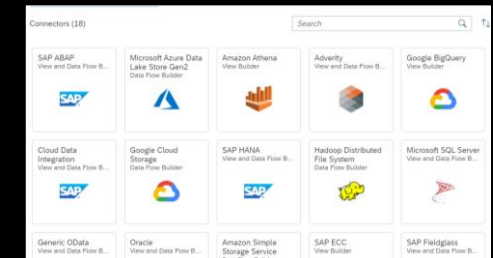
### Data Flow



#### ETL beyond view modeling

- Combine structured and semi structured data while defining ETL processes
- Advanced transformation capabilities leveraging Python 3

### External Tools



#### Integrate with all data sources

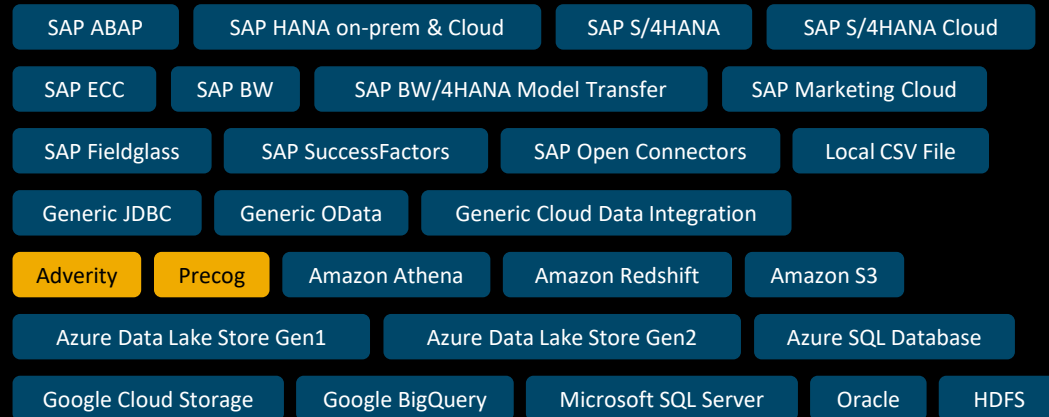
Allow external data movement tools like SAP Data Services, SAP Data Intelligence, SAP Open Connectors, SnapLogic, Precog, Adverity, etc. to bring data into SAP Data Warehouse Cloud using SQL interfaces



# Integrate. Data Sources Overview

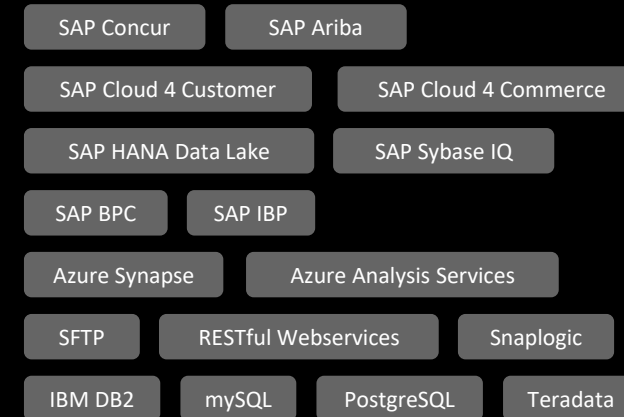
## Current

### Connection Tiles

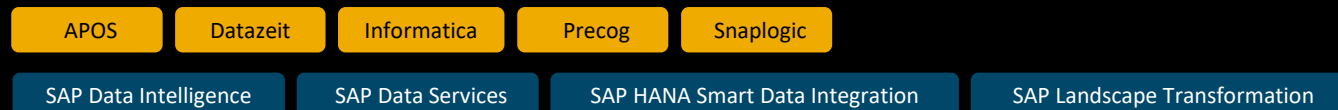


## 2021 and beyond\*

### New Connection Tiles



### SAP and partner tools supporting data ingestion via Open SQL Schema



SAP Help: [Connection Overview](#)



Available



Planned\*

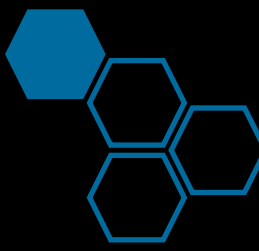


Partner

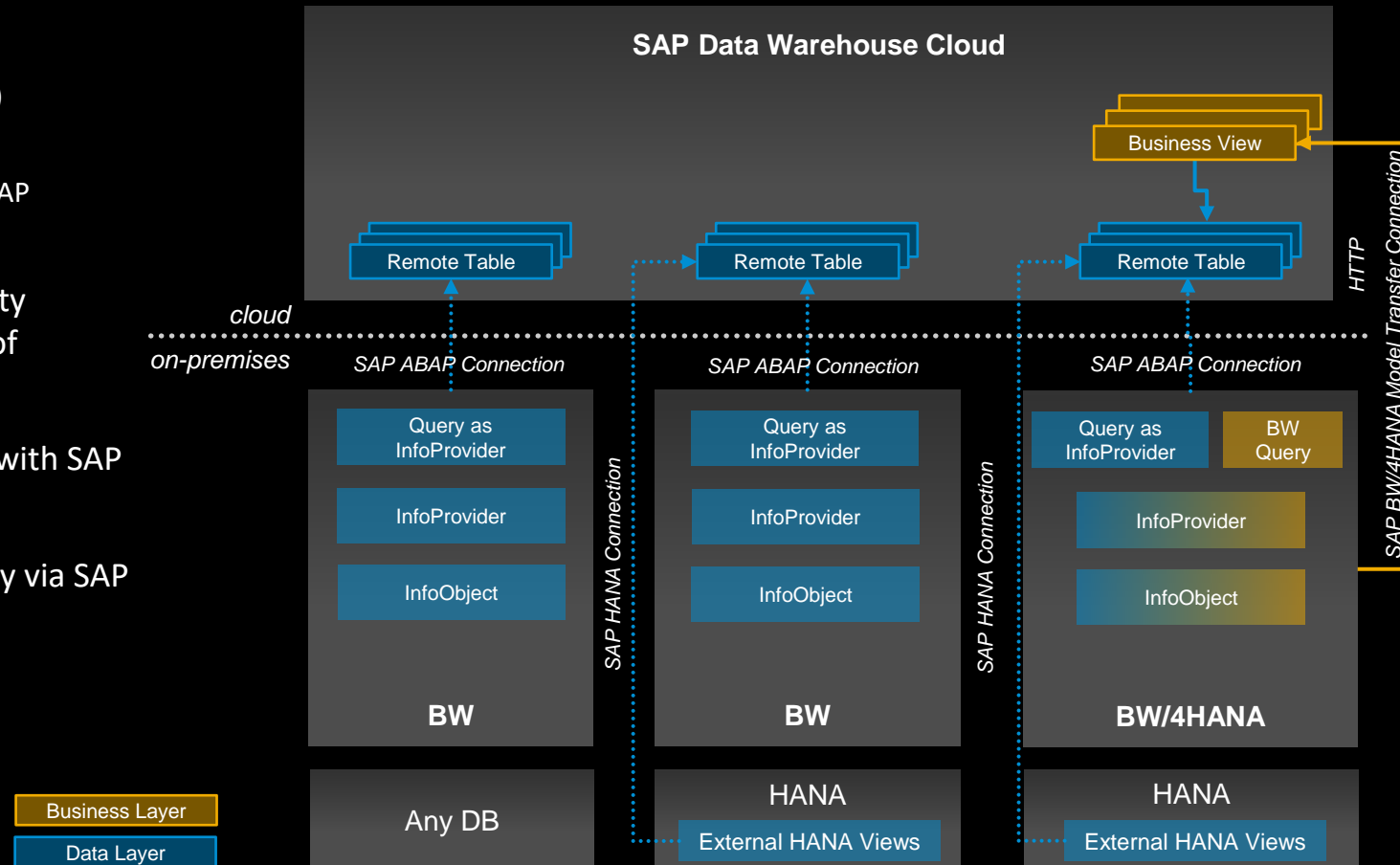
\* According to the [SAP Data Warehouse Cloud Roadmap](#).

Note: The shown sequence does not reflect priority and timewise planning

# Integrate. Hybrid SAP BW Integration Overview



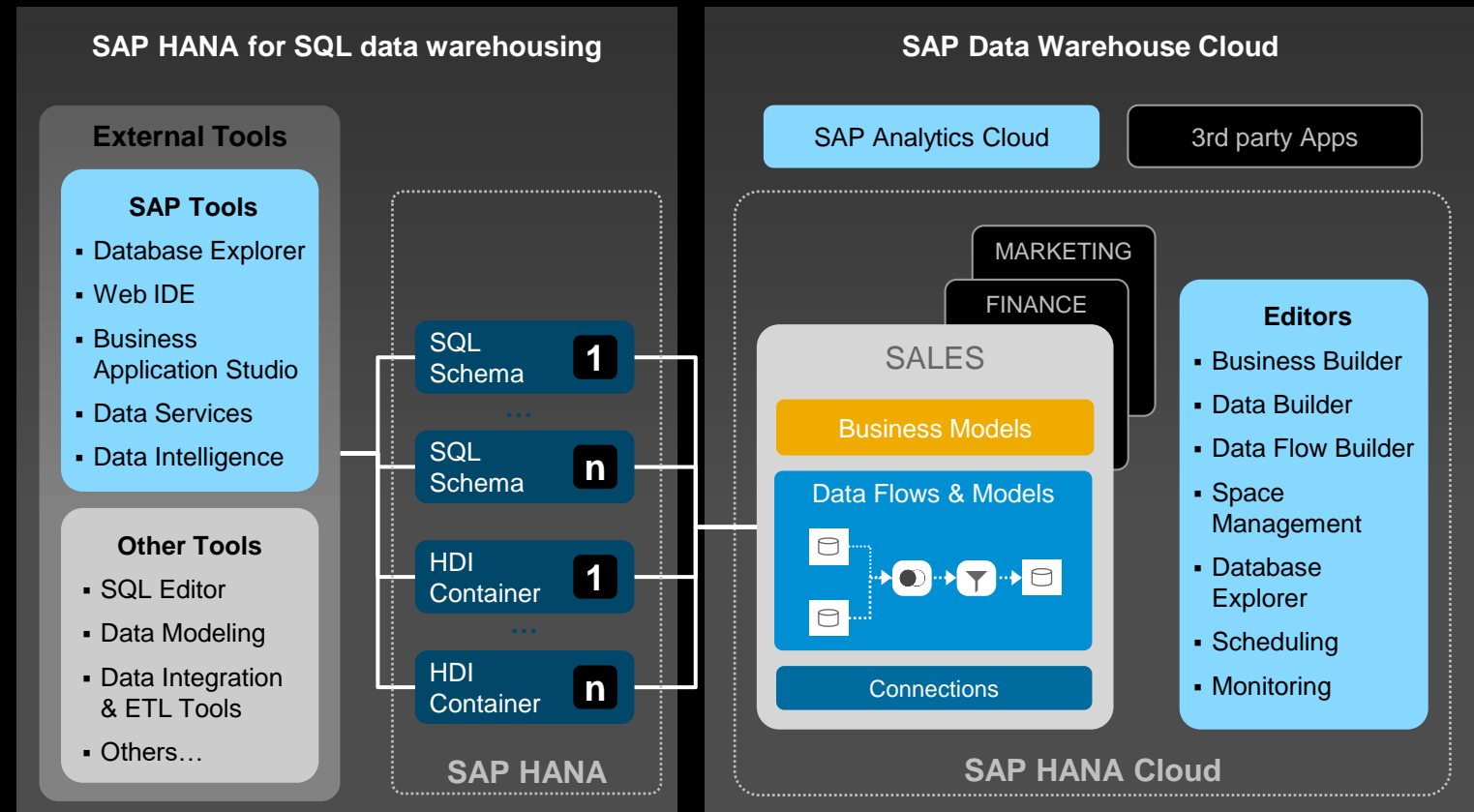
- Two different ways available for integrating SAP BW & SAP BW/4HANA systems:
  - Federated/replicated data consumption scenarios via
    - Operational Data Provisioning framework (SAP ABAP connection)
    - External SAP HANA Views (SAP HANA connection)
  - Federated/replicated business semantics integration scenarios via SAP BW/4HANA Model Transfer connection
- Differences in support of consumable entities, supported entity features, federated or replicated scenarios, location & usage of calculation engine
- Remote or replicated data consumption scenarios supported with SAP BW & SAP BW/4HANA
- Business semantics migration support for SAP BW/4HANA only via SAP BW/4HANA Model Transfer connection





# Integrate. Hybrid SAP HANA for SQL data warehousing Integration

- SAP HANA for SQL data warehousing integrating loosely coupled, but deeply integrated tooling (SAP and open Source) enabled to connect, access & process data, governed by SAP HANA 2.0 or SAP HANA Cloud
  - HANA Artefacts, like: Calculation View, remote Source, Flowgraph, Roles, virtual Table, Table, NDSO ...
  - SQL Artefacts: HANA SQL DDL & DML
- SAP Data Warehouse Cloud
  - Editors empower Business & IT Users to create End-to-End Scenarios
  - Data is accessed, processed, federated and persisted using SAP HANA Cloud



Operate.

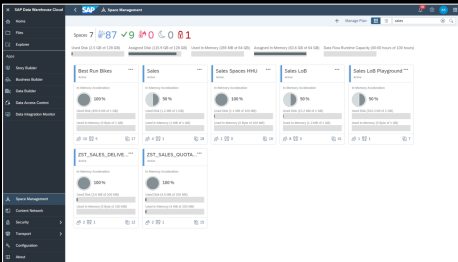




# Operate. Unlocking data insights with integrity



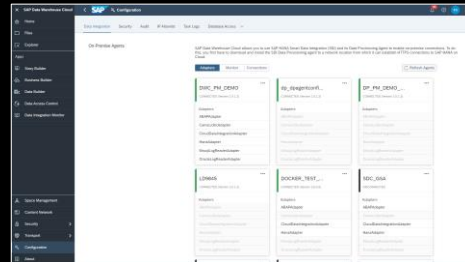
## Space Management



### Collaboration across spaces

- Access to globally managed data without export & import
- Work independently with your local data and create new insights
- Share your results with others
- Governed by IT

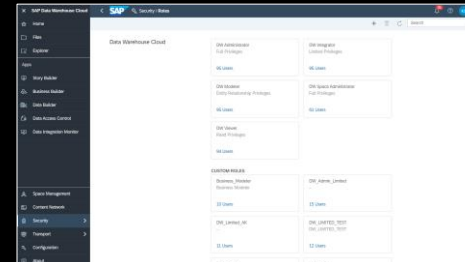
## Configuration



### Manage your system settings

- IP-Allowlisting
- Data Provisioning Agents monitoring & configuration
- 3<sup>rd</sup> Party driver & certificate Management
- Access HANA Cloud Cockpit
- Auditing & Resource Monitoring

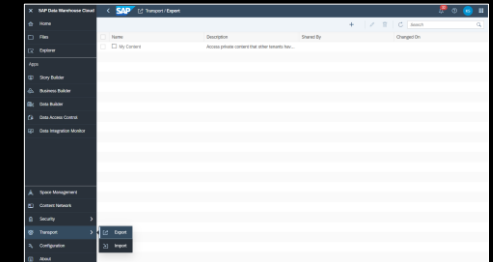
## Security



### Security on all layers

- User Management
- Row-level Security
- Secure Source System Connections
- Data Anonymization & Data Masking

## Transport



### Transfer content between tenants

- Move your own content between different tenants
- Export content packages and share with other tenants

# Operate. Spaces



## Independent virtual work environments

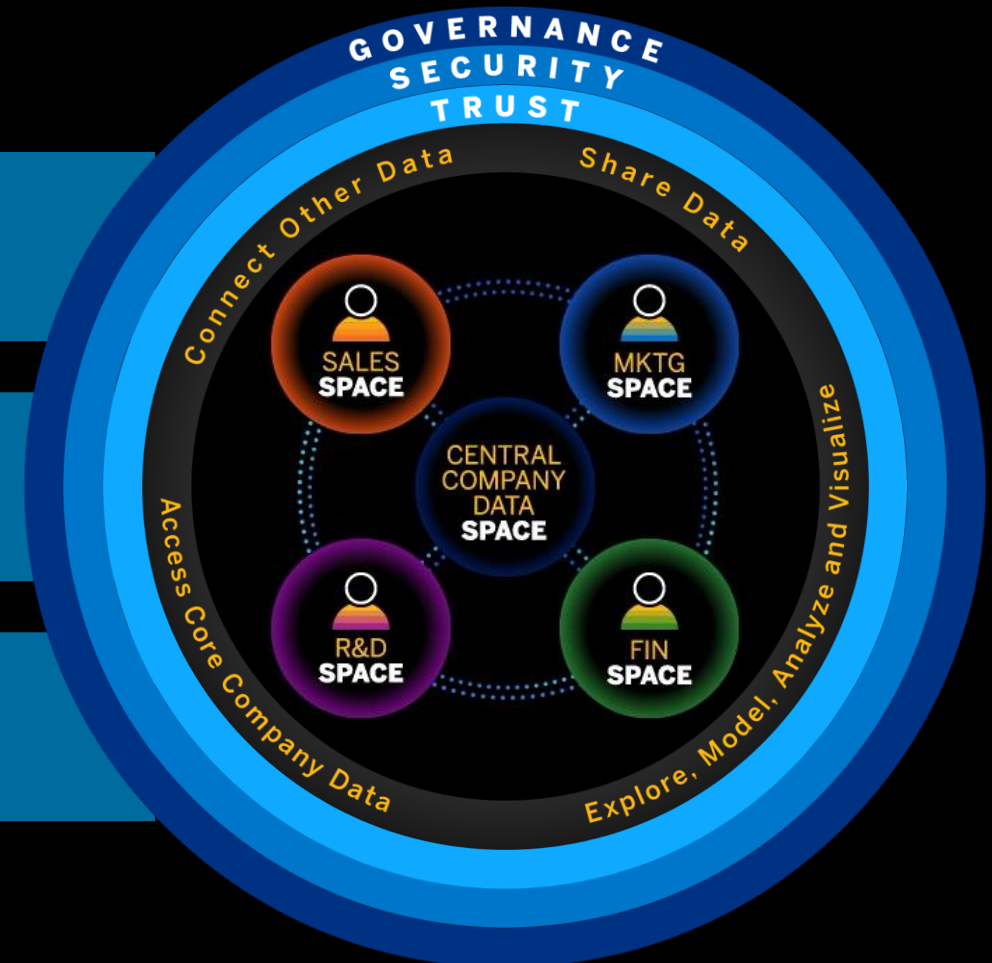
for departments, LOB's, data domains, project teams, and individuals

## Data sharing fosters collaboration

between IT, business units, and projects to connect global & local data

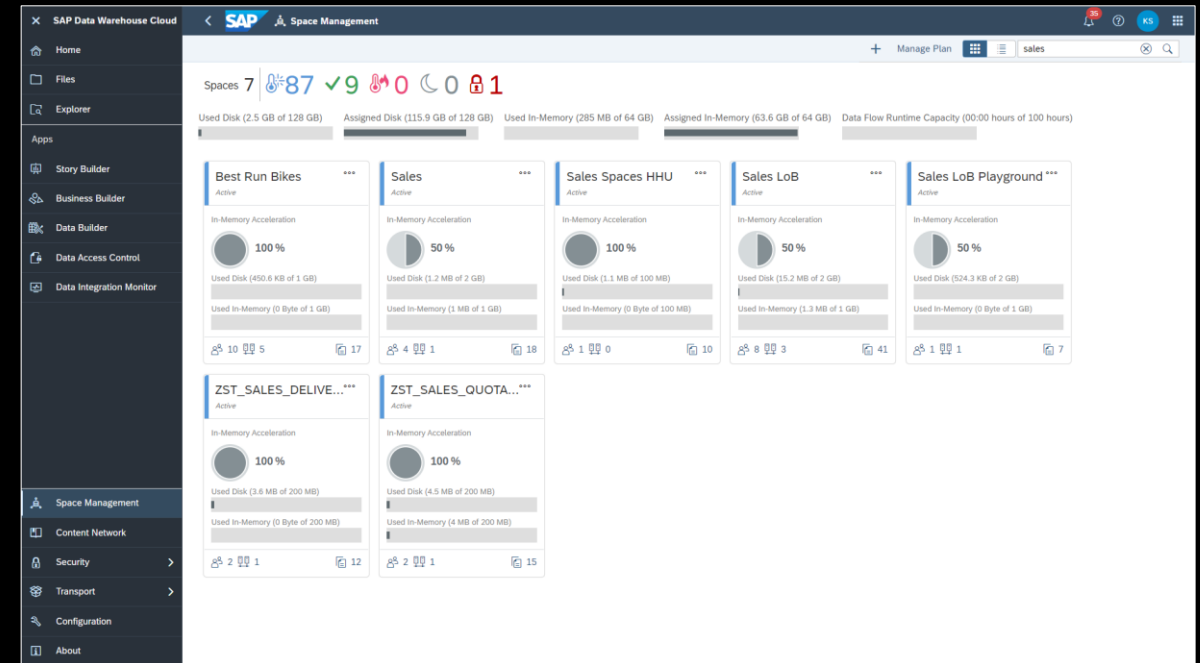
## Get in control of data sprawl

by reusing shared data & avoid maintaining disconnected data sets



# Operate. Space Management

- Spaces are secured virtual work environments which
  - provide isolation for metadata objects and space resources
  - define space storage quota and control resource usage
  - enables sharing of data with other spaces
- Transparent monitoring & statistics
- Manage user access for space members
- Maintain source system connections
- Database users for
  - read access from other applications
  - write access to an Open SQL Schema via external tools
  - deployment of SAP HANA Deployment Infrastructure (HDI) containers
- Time dimension
- Optional Auditing for read and change operations
- Optional SAP HANA Data Lake Integration



# SAP DATA WAREHOUSE CLOUD



Manage.



# Manage. Modeling for Everybody



Business Analyst  
(no-code/low-code)



Developer  
Power User

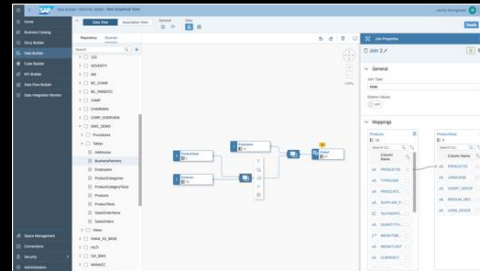
**BUILT-IN EDITORS**  
modeling for all users

## Business Modeling



- Allow for a greater degree of self service
- Non-disruptive environment for business scenarios – independent from the data integration layer

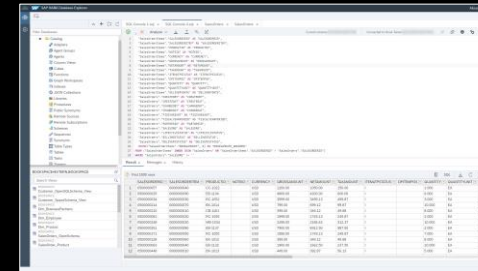
## Graphical & Scripted



- Collection of no-code/low-code editors to support Graphical Modeling
- Model E/R-models, Tables, Views, SQL & SQL-Script Views
- Focuses on most commonly used modeling operators

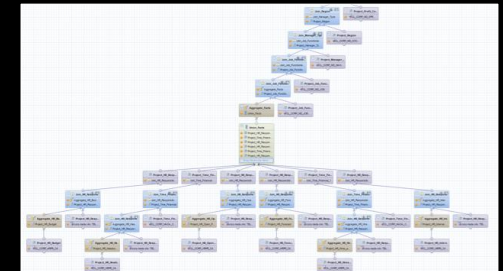
**EXTERNAL EDITORS**  
integrated SQL Data Warehousing

## Open SQL Schema



- Option to use SQL DDL & DML leveraging e.g. SQL Views, Tables, Procedures, etc.
- Leveraging existing SQL-tooling & skillset
- SAP Database Explorer

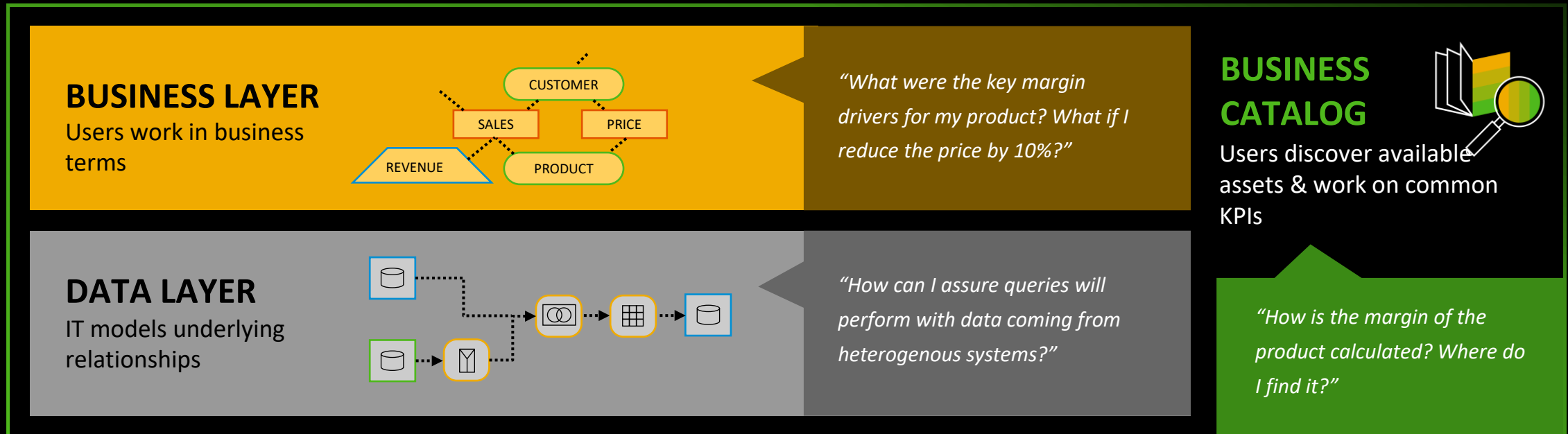
## SAP HANA Deployment Infrastructure



- SAP HANA Cloud Modeling capabilities leveraging Calculation View, Flowgraph, Synonym, etc.
- Simply re-use HANA based Modeling within SAP Data Warehouse Cloud



# Manage. Collaborate in business terms



- Business entities and relationships with business language
- Model standardization and reuse for efficiency
- Independence for business users from IT

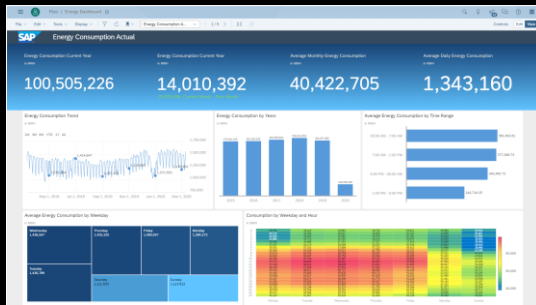
Use.



# Use. Choice and openness with prebuilt business content



## SAP Analytics Cloud



### One seamless user experience

- Direct consumption of models in SAP Analytics Cloud (live connection)
- Any number of SAP Data Warehouse Cloud systems can be connected to any number of SAP Analytics Cloud systems

## 3rd Party API

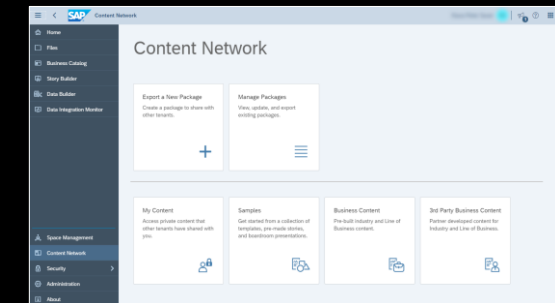


API 3rd-Party consumption

### 3rd Party API for consumption

- Freedom of choice
- Use consumption interface to connect any 3rd-party front end tool to your exposed views
- Make your data models accessible for consumption tools & applications

## Business Content



### Business accelerators










- Content packages ready to use and accelerate your project
- Packages SAP and partners for various LOB and industry scenarios
- Separate packages for data models and visualizations

\* According to the [SAP Data Warehouse Cloud Roadmap](#).















# Use. Business Content



## SAP Business Content

Enterprise Analytics for Procurement SAP Ariba 	Spend Analytics SAP Ariba 	Responsive Supply Network, Sales and Inventory Automotive 	Revenue Growth Management Consumer Products 	Finance for SAP S/4HANA Cloud 
Financial Analytics Dashboard for SAP Analytics Cloud SAP S/4HANA 	POS Analytics Retail 	Life Science Dashboard SAP SCM 	Statistical Process Control SPC 	Customer Value Management Telecommunication 
Meter to Cash Utilities 	Outcome-based business Insights* OBBI*  New			

## Partner Business Content

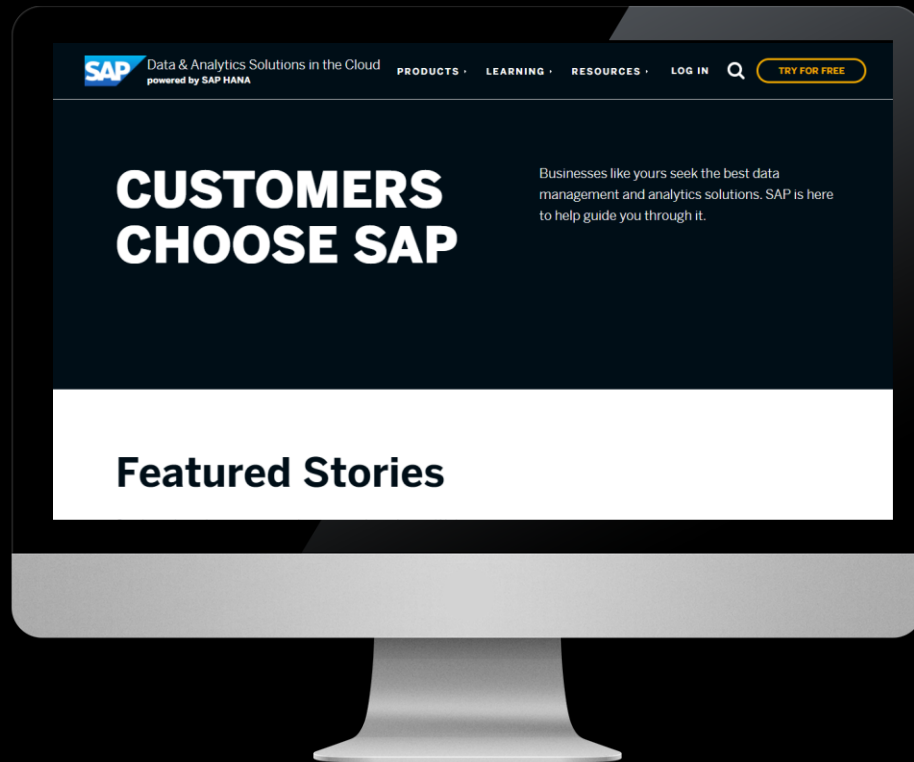
Marketing Analytics Adverity 	Customer Service Insights Bitech 	E-Commerce - Cross Marketplace Insights datazeit 	Procurement Cockpit CubeServ 	Sales Dashboard IBsolution 
Optimizing Order Fulfillment with ML Inspired Intellect 	Analytics for Effective Inventory Optimization ISR  New	SuccessFactors / Attendance Tracker KPC 	Product Cost Simulation mib:NDC  New	Sales Insights (SAP BW & Salesforce) PWC 
MOSAIC – Margin-Optimized Sales Intelligence Reply 	Lyra Integrated Capacity Planning (EAM & HCM) Rizing 	Financial Reporting for SAP Business One s-peers 	EWM Insights Westernacher 	

More information about the [Business Content](#) the [SAP Data Warehouse Cloud Community](#).  
Partner Content also listed on [SAP Store](#)

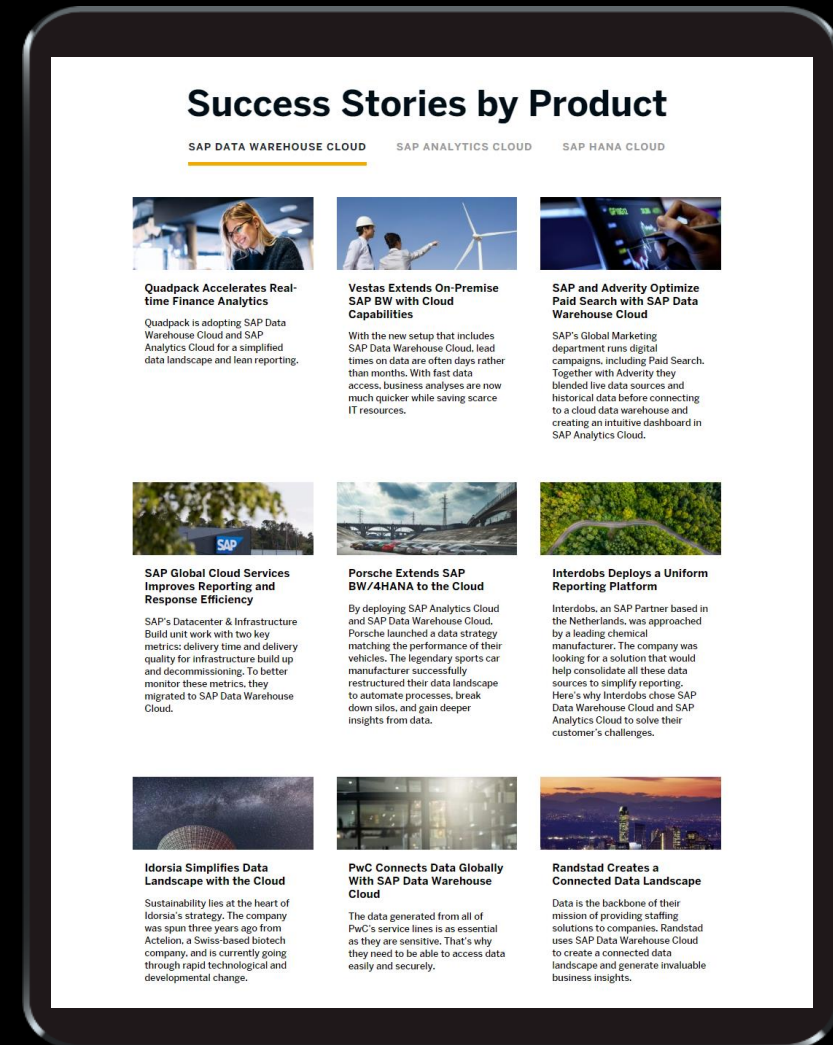
# SAP DATA WAREHOUSE CLOUD



# Customer Success stories.



Learn about the SAP Data Warehouse Cloud [success stories](#).



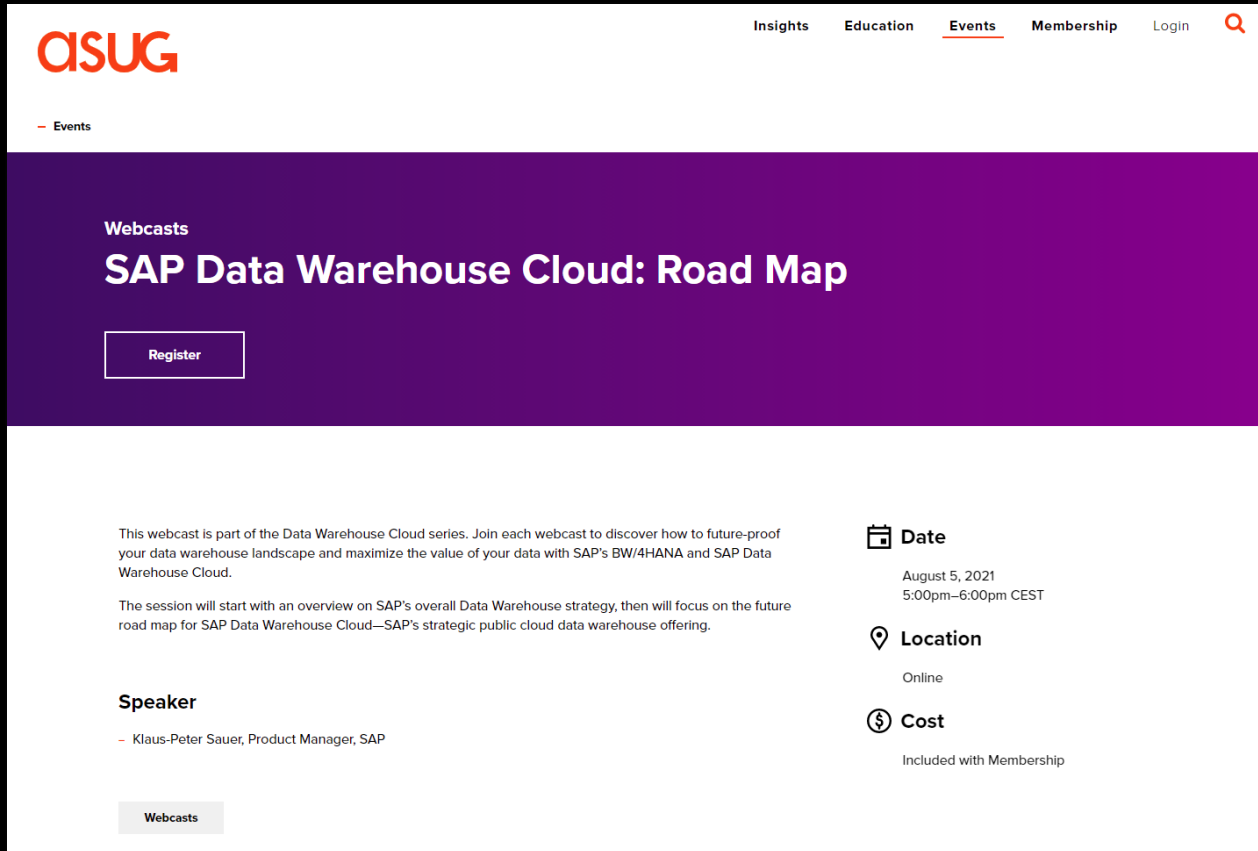


# What's New in SAP Data Warehouse Cloud

- One session per quarter
- Covering new features per release
- Latest session for Q2-2021 on July 14<sup>th</sup> [watch now](#)
- Additional Q2-2021 features covered in [this blog](#)
- Release News on [SAP Help](#)
- Watch previous recordings for [Q2-2020](#), [Q3-2020](#), [Q4-2020](#), [Q1-2021](#)



# Roadmap Session.



The screenshot shows the ASUG website's 'Events' section. At the top, the ASUG logo is on the left, and navigation links for 'Insights', 'Education', 'Events' (which is underlined), 'Membership', and 'Login' are on the right. Below the navigation bar, there's a purple banner with the text 'Webcasts' and 'SAP Data Warehouse Cloud: Road Map'. A 'Register' button is positioned below the banner. Underneath the banner, there's a detailed description of the webcast, its date and time, location, and cost. The description states it's part of the Data Warehouse Cloud series and will cover SAP's overall strategy and future road map. The speaker is Klaus-Peter Sauer, Product Manager at SAP. The date is August 5, 2021, from 5:00pm to 6:00pm CEST. The location is 'Online'. The cost is 'Included with Membership'. At the bottom left, there's a 'Webcasts' button.

ASUG

Insights Education Events Membership Login

Events

Webcasts

## SAP Data Warehouse Cloud: Road Map

Register

This webcast is part of the Data Warehouse Cloud series. Join each webcast to discover how to future-proof your data warehouse landscape and maximize the value of your data with SAP's BW/4HANA and SAP Data Warehouse Cloud.

The session will start with an overview on SAP's overall Data Warehouse strategy, then will focus on the future road map for SAP Data Warehouse Cloud—SAP's strategic public cloud data warehouse offering.

**Speaker**

– Klaus-Peter Sauer, Product Manager, SAP

**Date**

August 5, 2021  
5:00pm–6:00pm CEST

**Location**

Online

**Cost**

Included with Membership

Webcasts



August 5, 2021  
10 – 11 am CT



<https://www.asug.com/events/sap-data-warehouse-cloud-road-map>

Learn more about the current the [SAP Data Warehouse Cloud Roadmap](#) in the online SAP Road Map Explorer.

# Get your **30-Day free trial** today



<https://info.sapdigital.com/sap-data-warehouse-cloud-trial.html>

Find sample content on [GitHub](#)

## SAP Data Warehouse Cloud

# Get Your 30-Day Free Trial Today

Discover the only end-to-end data management and decision making solution designed for business and enterprise-grade experiences.

Here's what you'll get with the SAP Data Warehouse Cloud trial:

**1. MULTI-MEDIA LEARNING CONTENT**  
To help you make the most of your trial, you will be supported with getting started and multi-media training content.

**2. BE PART OF A GROWING COMMUNITY**  
You will receive exclusive access to the SAP Data Warehouse Cloud Community to ask all your questions, as well as get insider tips from other members, and our product experts.

**3. HAVE YOUR VOICE HEARD**  
Provide direct feedback with in-app surveys. Collaborate with our team in elevating SAP Data Warehouse Cloud.

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By submitting this trial request form, you agree to the [terms and conditions](#).

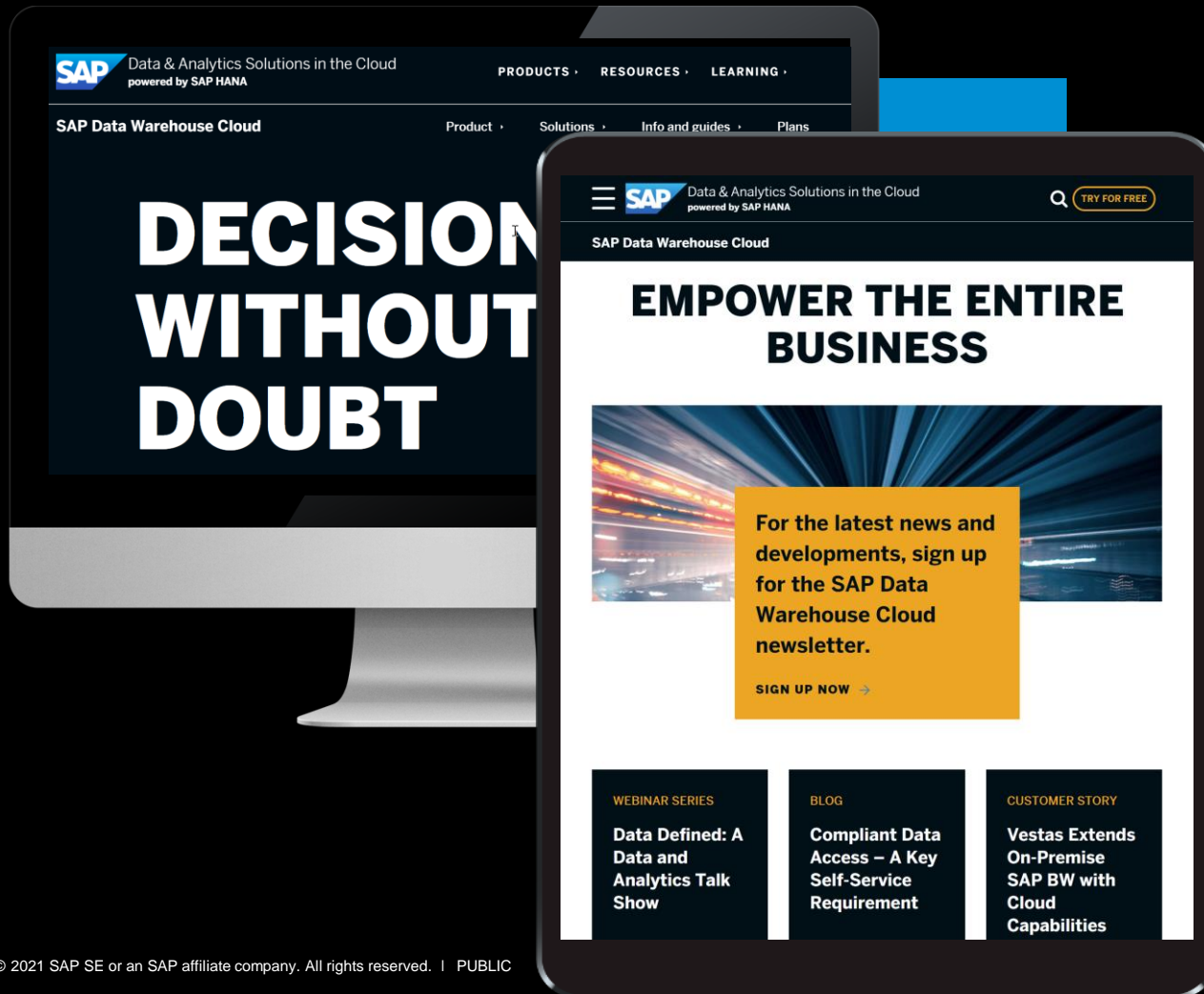
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# Learn more.



- Check the Info & Guides section on [www.sapdatawarehouse.cloud](https://www.sapdatawarehouse.cloud) with
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  - [Getting Started - Learning Track](#)
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# Thank you and stay safe!



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Data Warehousing

SAP SE

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