



Microsoft

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# AI, Data & Low Code Conference 2024



<b>10.30 – 11.00</b>	Opening
<b>11.00 – 11.30</b>	Wie die preisgekrönte Power App „DTROCKS“ das globale Kultur- und Leadership-Programm bei Daimler Truck unterstützt
<b>11.30 – 12.00</b>	Die Prozesse optimieren mit KI und der Microsoft Power Platform / Use Cases aus Kundenprojekten + Live Demos
<b>12.00 – 12.15</b>	Coffee Break
<b>12.15 – 13.00</b>	Driving Innovation for your data: Explore the Synergy between Microsoft Fabric and Power Platform
<b>13.00 – 13.15</b>	Roundtable Session
<b>13.15 – 14.15</b>	Lunch
<b>14.15 – 14.45</b>	Bridging the Gap: Integrating SAP Data into Microsoft Fabric & Power Platform
<b>14.45 – 15.15</b>	Roundtables „Bring your own use case“
<b>15.15 – 15.30</b>	Coffee Break
<b>15.30 – 16.00</b>	MS Power Platform Implementation Project: Defeating the Hydra of Complexity
<b>16.00 – 16.30</b>	Paneldiskussion Ausblick KI & Low Code – Wie sieht die nahe Zukunft aus?
<b>16.30 – 17.00</b>	Snacks & Drinks
<b>ab 19.30</b>	Conference Dinner



# Bridging the gap: Integrating SAP data in Fabric & Power Platform

  
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June 17<sup>th</sup> - 2024



# Marc Lelijveld

Technical Evangelist & Architect  
At Macaw



@MarcLelijveld



linkedin.com/in/MarcLelijveld



Data-Marc.com



DutchFabricUsergroup.com

FAVORITE STUFF:



# Microsoft Fabric.



## Data Integration

Data Factory



## Data Engineering

Synapse



## Data Warehouse

Synapse



## Data Science

Synapse



## RealTime Intelligence

Synapse



## Business Intelligence

Power BI



## Observability

Data Activator



## Unified Serverless Compute

T-SQL | Spark | KQL | Analysis Services



## Unified data foundation

OneLake | OneSecurity

## UNIFIED

SaaS product experience

Security and governance

Compute and storage

Business model

# OneLake for all Data.

“The OneDrive for Data”

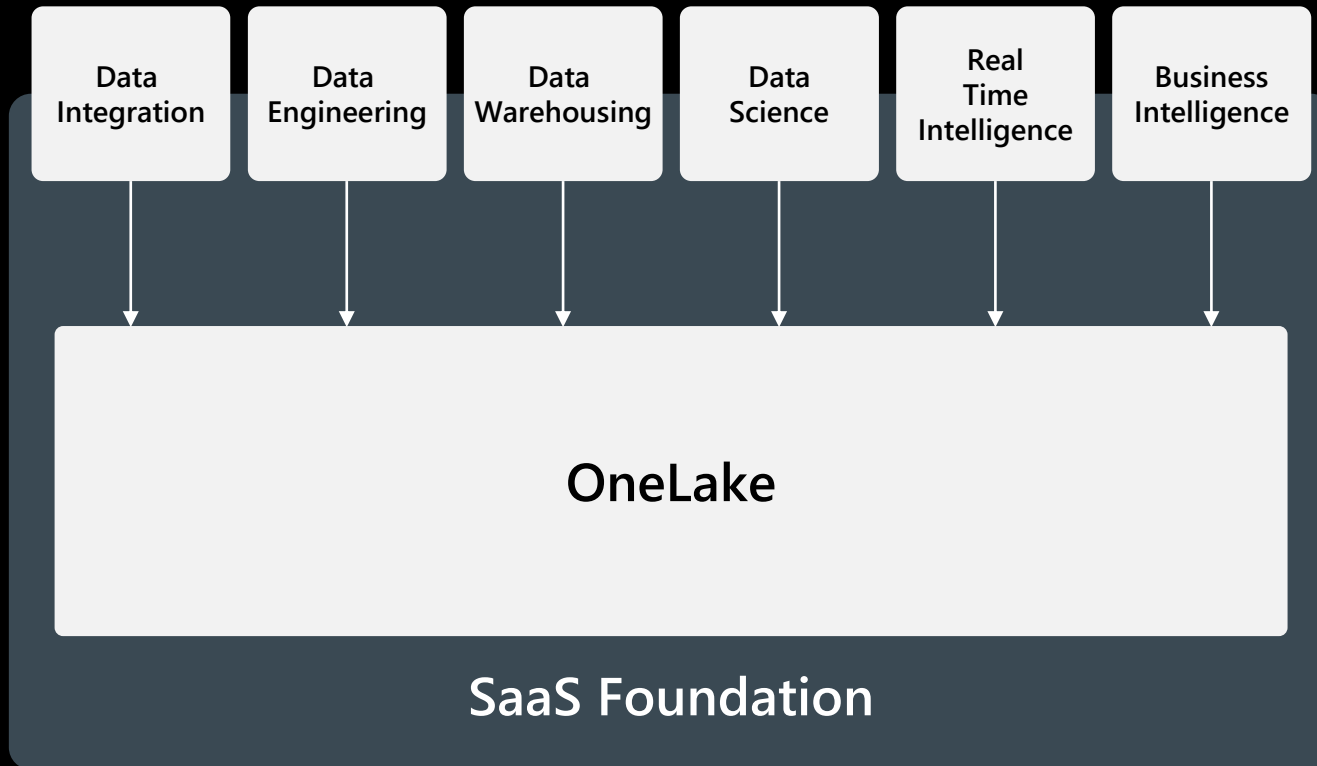


OneDrive  
for documents



OneLake  
for data

OneLake provides a data lake as a service  
without you needing to build it



## OneLake

A single unified logical SaaS data lake for the whole organization (no silos)

Organize data into domains

Foundation for all Fabric data items

Provides full and open access through industry standard APIs and formats to any application (no lock-in)

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One Copy

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One Security

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**The value in  
your ERP data.**





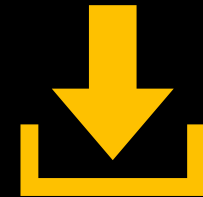
# Concepts to bring data to Fabric.



Shortcuts

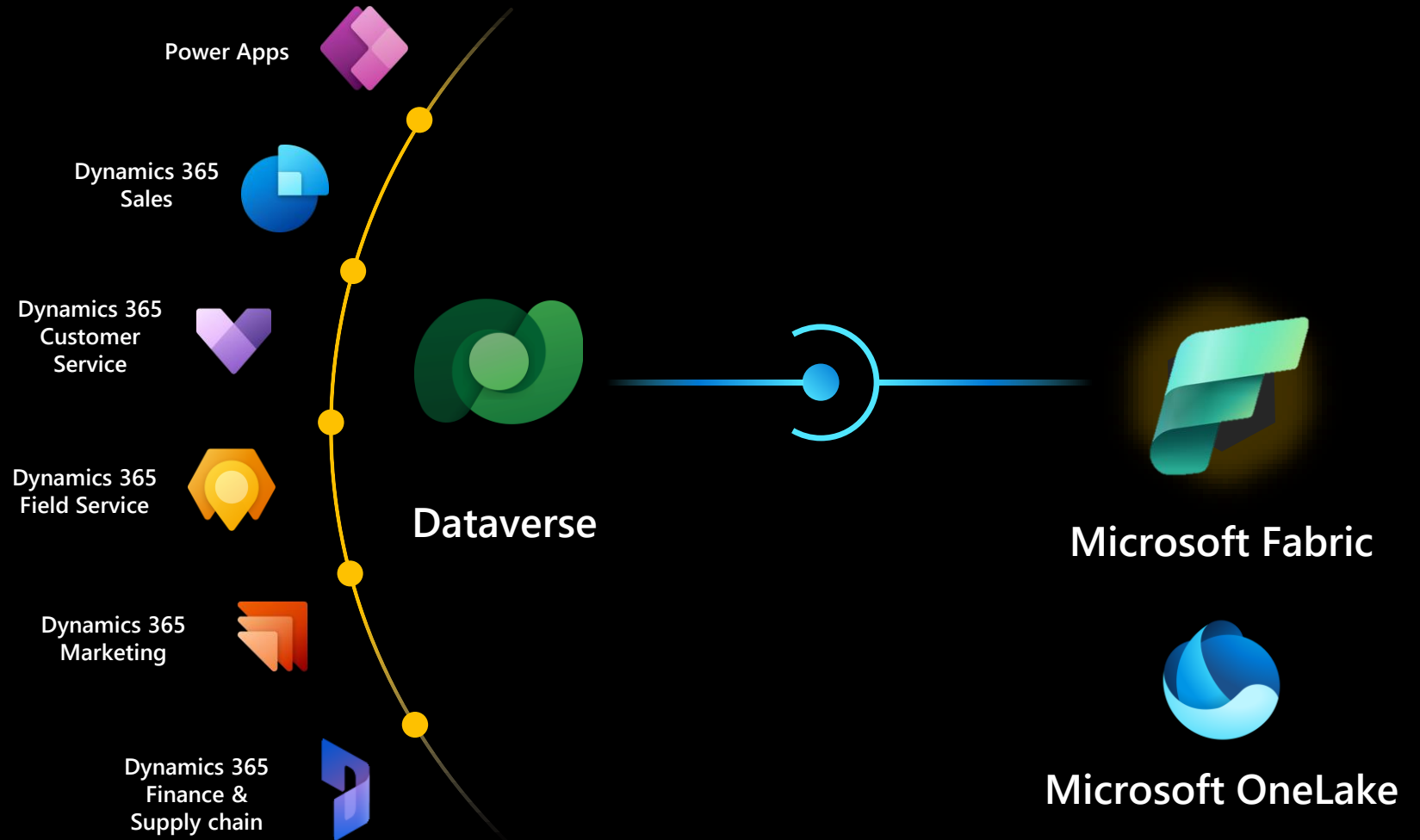


Mirror

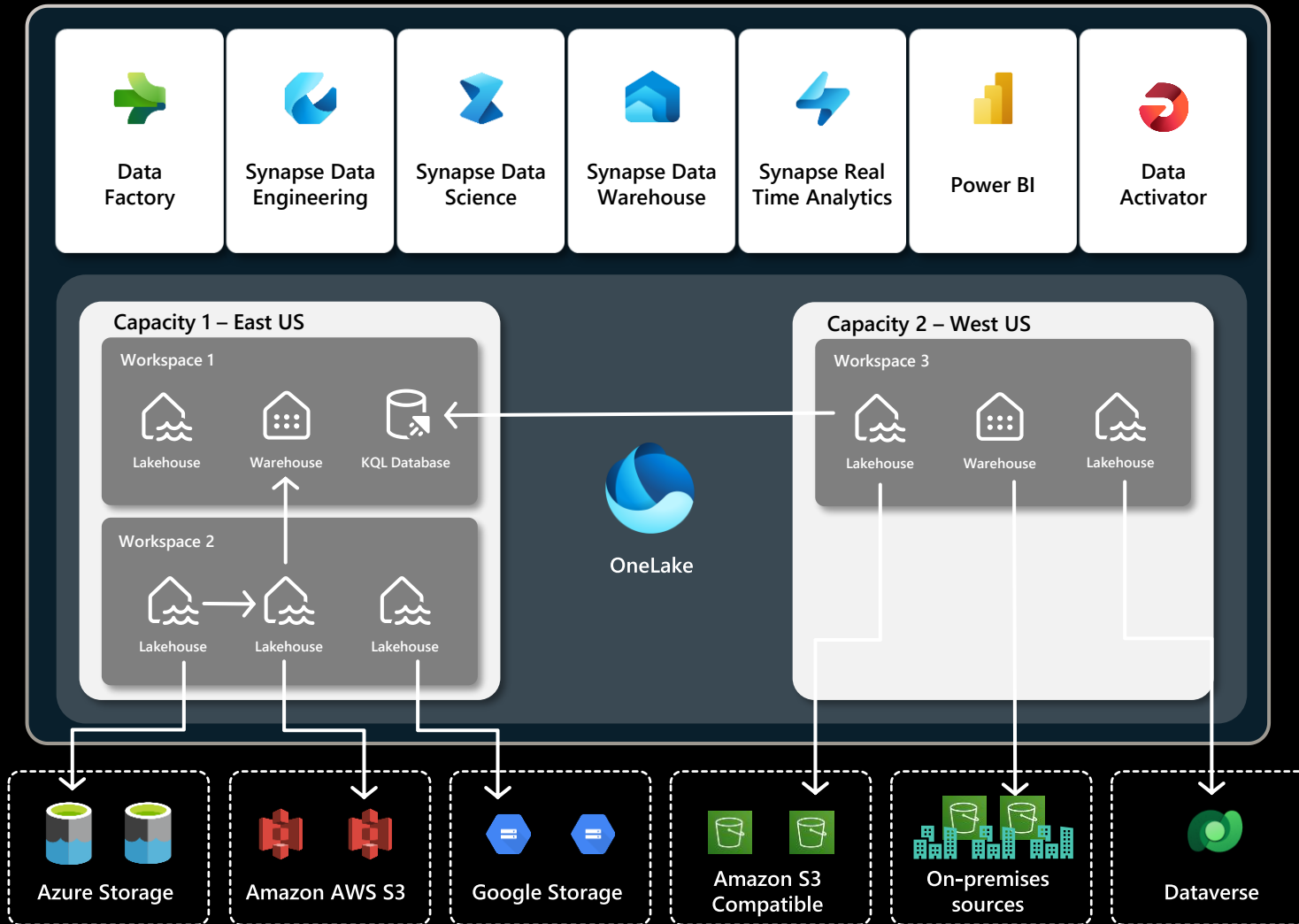


Import

# Bringing your data to Fabric.



But what if you're not fully in the **Microsoft ecosystem**?



## Shortcuts

Support for a variety of clouds outside Microsoft Azure.

Native support for S3 compatible sources.

Also supports on-premises and private cloud connectivity through gateways.



# Private clouds and on-premises.

Fabric



Fabric workloads, OneLake shortcuts  
Gateway cloud service



Azure Relay

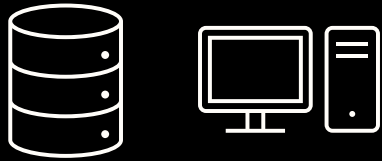
Your environment



On-premises data gateway  
Data sources  
On-premises or network-restricted

What about **SAP data**?

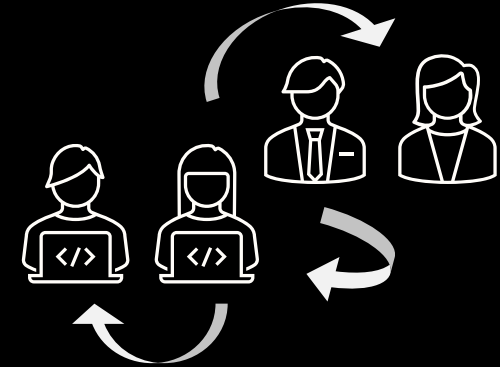
# Aspects of SAP data integration.



**Sources**



**Tools**



**Personas**

SAP ERP applications

- SAP ECC, S/4HANA
- SuccessFactors, Ariba, Concur, Fieldglass

SAP Analytics portfolio

- SAP HANA
- BW, BW/4HANA
- Datasphere

Fabric Data Factory

Azure Data Factory

3<sup>rd</sup> party tools (SAP and others)

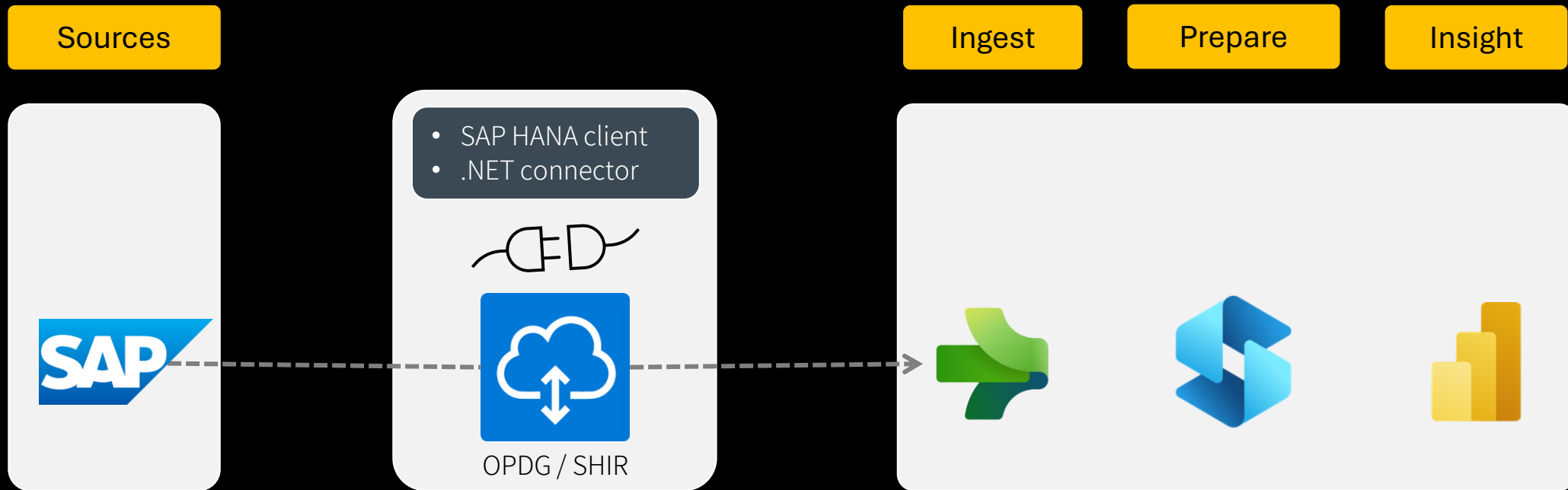
Custom-built integration

Professional developers

Citizen developers

Casual business users

# High-level architecture.





# Scenario 1 – Consuming data from S/4HANA.

**Sources** SAP S/4HANA

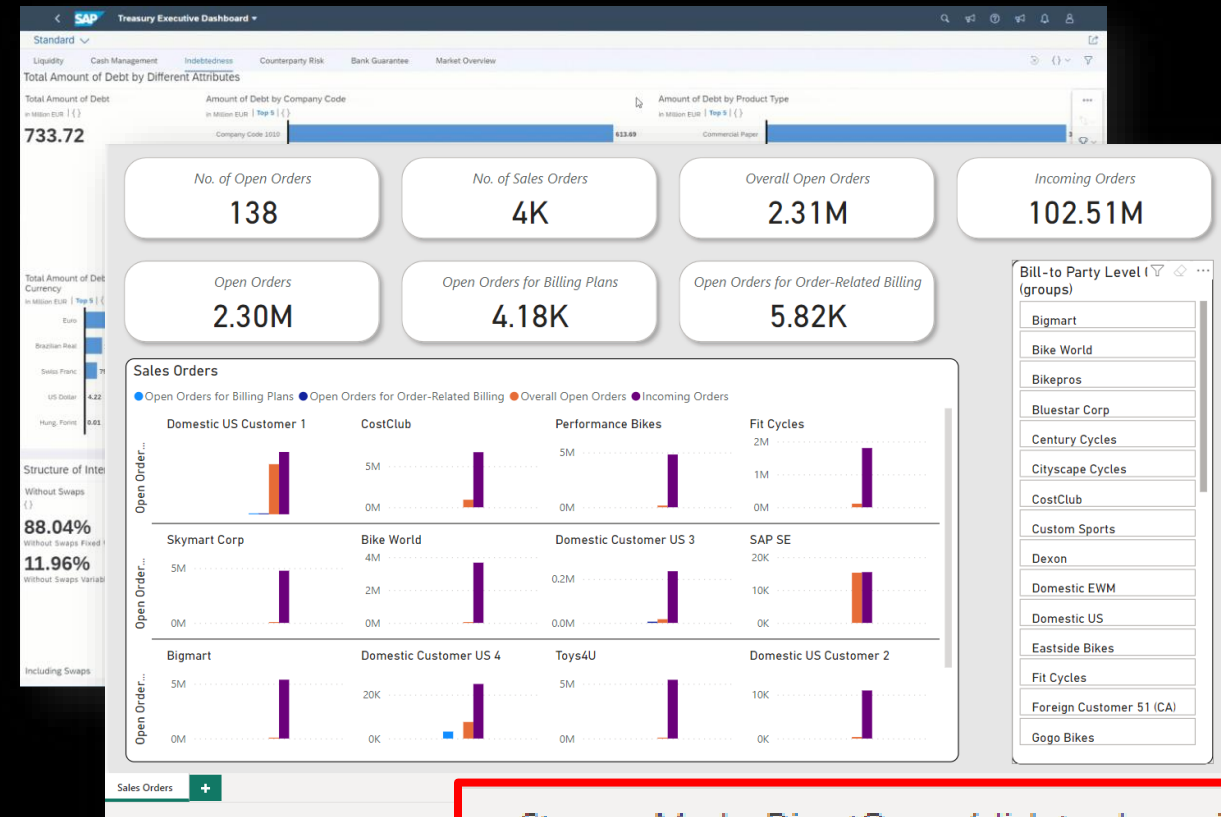
**Tools** Power BI

**Personas** Self-service

SAP S/4HANA comes with rich pre-built analytics content for operational reporting

With the **SAP BW connector** in MS Fabric, you can:

- Consume S/4HANA data models directly in Power BI
- Create your own first-class visualization on top
- Integrate data using data flows, e.g., to automate downstream processing



Storage Mode: DirectQuery (click to change)

# Scenario 2 – Flexible analytics on SAP Datasphere.

Sources SAP Datasphere

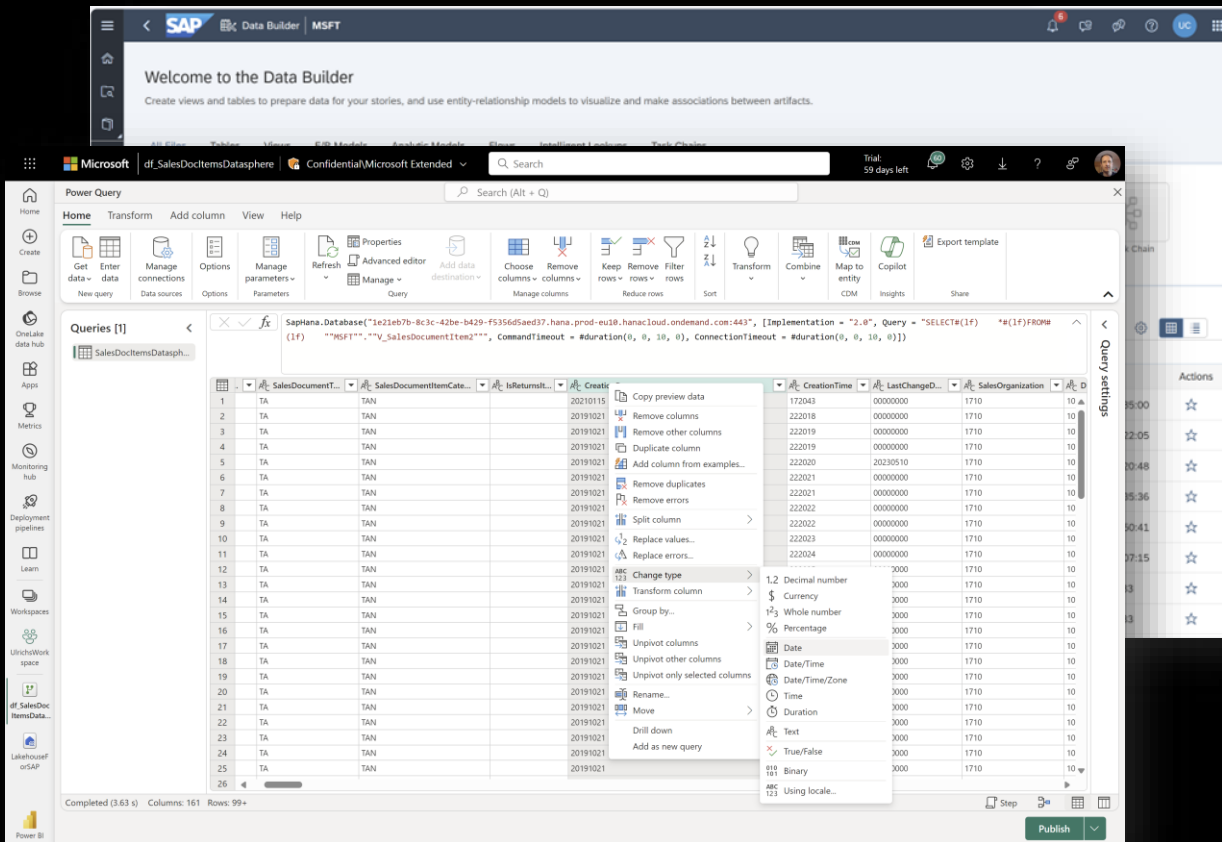
Tools Dataflow Gen2

Personas Departmental

SAP Datasphere is SAP's data warehousing and analytics service

With the **SAP HANA connector** in **Dataflows Gen2**, you can

- Fetch data from SAP Datasphere
- Interactively perform transformations, e.g. to adjust SAP-proprietary data formats
- Enhance pre-built Datasphere data models with your custom data sets in Fabric



# Scenario 3 – Large scale data ingestion.

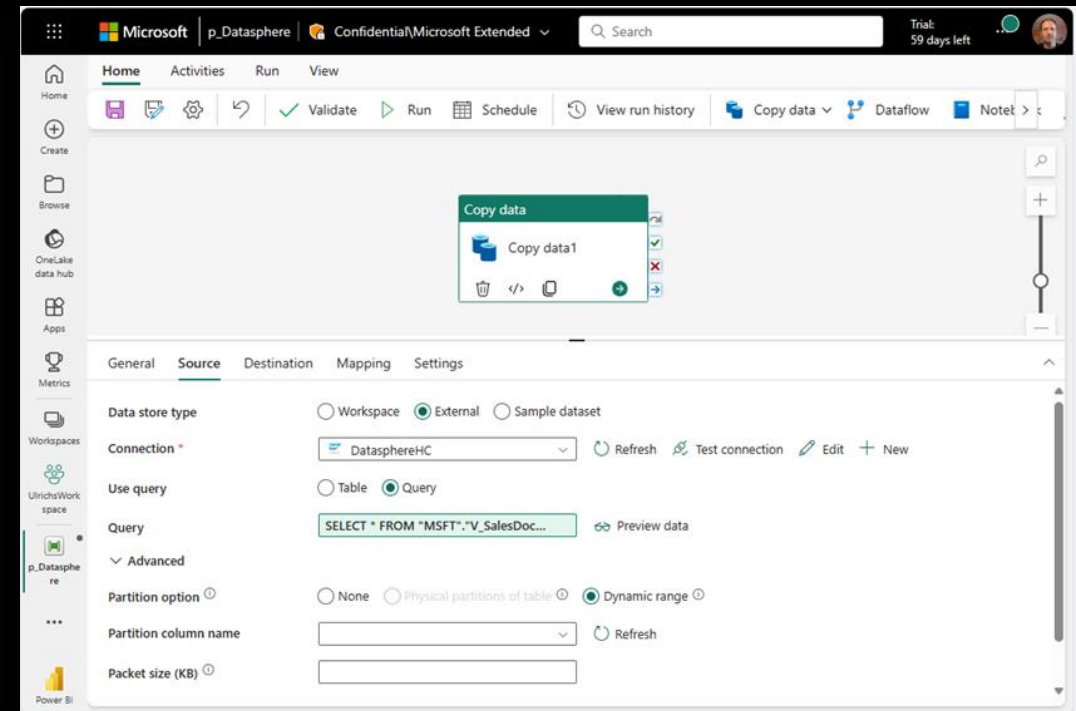
**Sources** SAP Datasphere

**Tools** Fabric Data Factory

**Personas** Organizational

With the recently announced **OPDG for data pipelines**, you can use the **SAP HANA connector** in Fabric to;

- Integrate data from SAP Datasphere at scale using
  - SQL for data extraction
  - Parameters for flexibility
  - Built-in performance-optimizations like package sizes, partitioning, etc.
- Build a Lakehouse medallion architecture with your SAP data

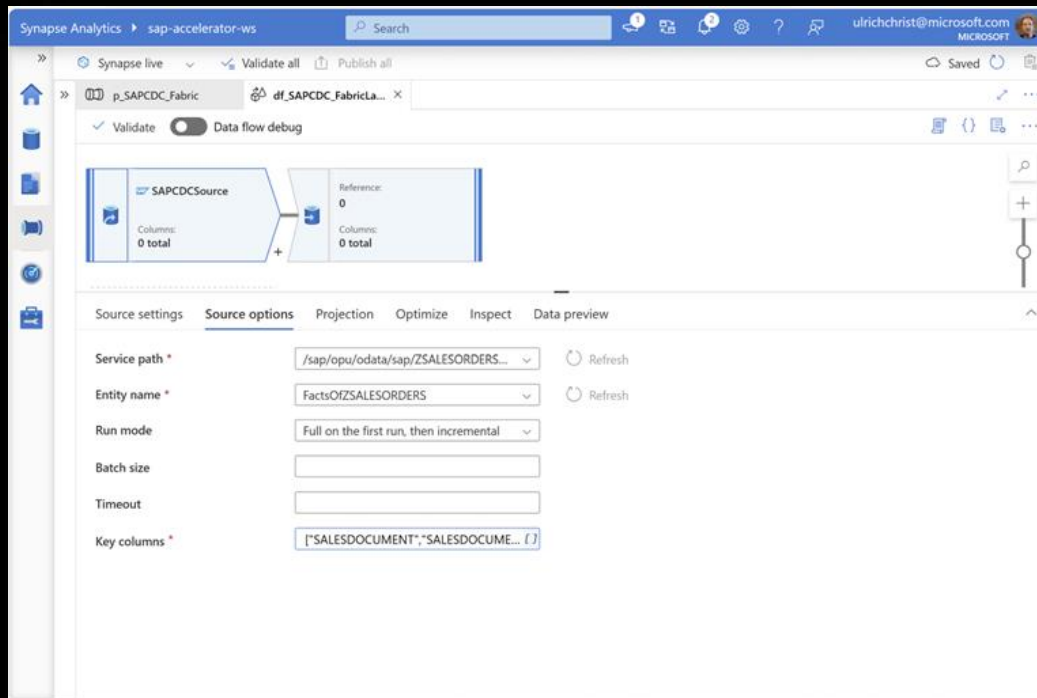


# Scenario 4 – Change data capture for SAP Sources.

Sources SAP (ECC, S/4, BW)

Tools Azure Data Factory

Personas Organizational



Azure Data Factory offers comprehensive SAP connectivity. With ADF's **Lakehouse connector** you can

- Design CDC dataflows
  - From all major SAP sources
  - Leveraging ADF's ETL capabilities using Spark compute
- Leverage your ADF skills/investments with Fabric
- Migrate existing dataflows to Fabric



# Recap.

- Tons of options to **connect** non-Microsoft sources to Fabric
- Shortcuts, mirroring and importing with each its pros and cos
- SAP data can be integrated in various **setups** for different **scenarios**
- Once data is in **OneLake** it is accessible for Fabric + Power Platform

*Shout out to Ulrich Christ + Nicky van Vroenhoven for the SAP specific content from MS Fabric Community Conference*

# It's only straight forward from here!

Ready to start your journey?

Marc Lelijveld  
**macaw**



Do you feel like the “chief integration officer”, instead of CxO?

Which **struggles** do you experience bringing data together?





**Coffee Break.**