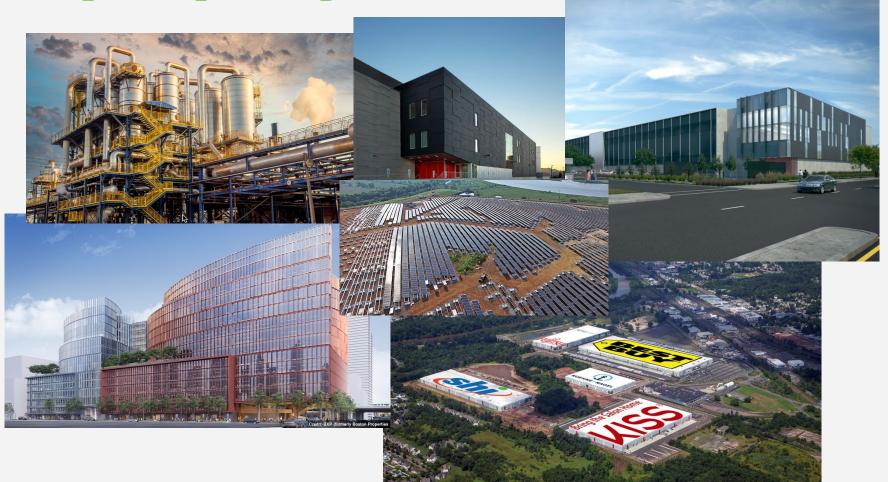


Langan Engineering



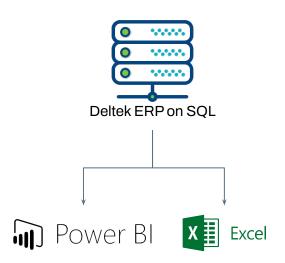


## Workflow/Business





## Architecture





## Seeking a **Data Strategy** vs Data Management



"You can't solve a problem with the management of technology with more technology."



- **Poor Insights**
- Inefficient
- Zero Data Governance

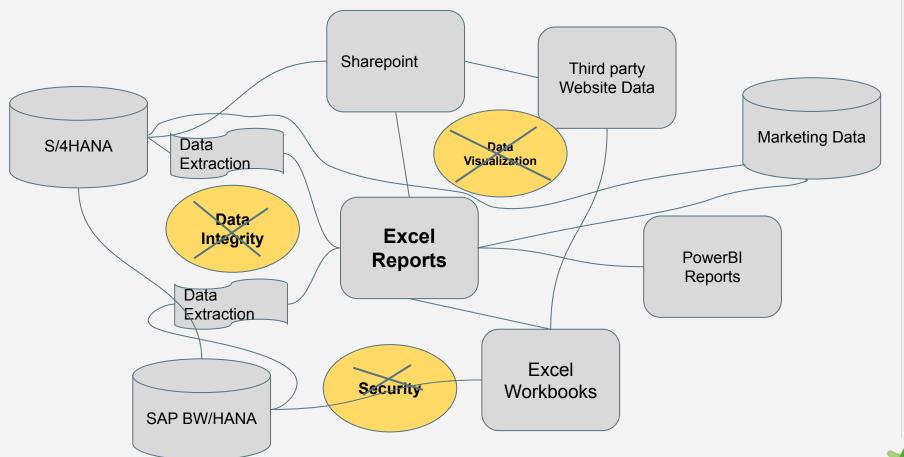


Reporting/ **Visualization** 



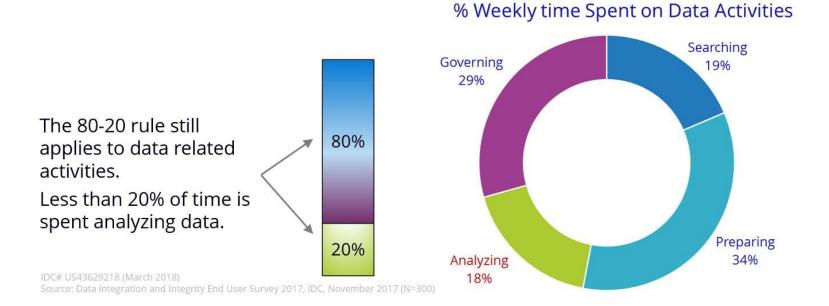


## Oldest Data Problem: Silos





## Costs of a Low-Quality Data Landscape





## Prying Deeper: The Age of Data

- The growth of custom applications as a competitive advantage
- Growing need of interoperability between applications
- Growing need of advanced insights within applications themselves
- Growing need to operate on a unified set of insights in collaborative applications
- Growing need to be able to build and deploy data rich applications













**BUSINESS INTELLIGENCE** 

**SELF-SERVICE ANALYTICS** 

**DATA SCIENCE** 

**360 VIEW** 

360 TRANSACTIONAL **APPLICATIONS** 

- Single Source of Real-Time Truth
- Accessibility
- **Strong Governance**
- Reduced TCO











**BIG DATA** 



**WEB APIs** 









MASTER & REFERENCE DATA











## Project Overview







#### The Challenge

This customer was transitioning away from an aging ERP system to a new - more complex environment with many data sources

- Project Managers had no operational overview of the financial performance of their projects.
- Senior Leaders and Partners had trouble recognizing and reacting to upcoming problems
- Senior executives were either lacking KPI's or receiving wildly out of date KPI's with low accuracy

### The Approach

Avvale acted as a strategic advisor and implementation partner for the entire digital transformation. On the Analytics Side - we pursued Phased approach which lead to us deciding on SAP DataSphere and SAP Analytics Cloud as the core tools of the Data Landscape.

Reasons for SAP DataSphere:

- 1. Integrate: Deep Integration with S/4HANA Cloud and BTP Assets
- Accessibility: Empower a variety of users
- 3. **TCO**: Lower development, integration and maintenance costs
- 4. **Scalability**: Leveraging the scalability of the cloud

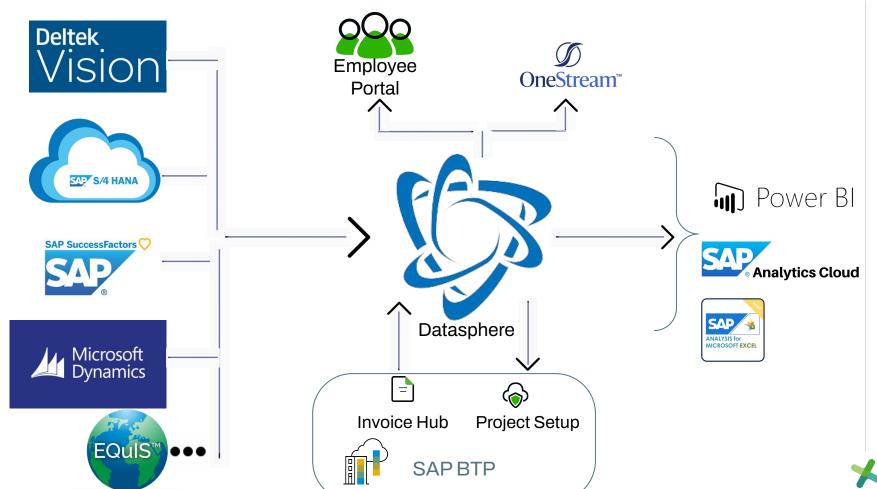
#### The Impact

DataSphere has become the de-facto data backbone (data fabric) for all reporting, analytics and data rich applications/use cases.

- Operate: Key Operational Reports change the way projects run and operate.
- Strategize: Executives can see deep insights powered by real-time data while a powerful data fabric allows their team to answer complex ad-hoc questions.
- Data Driven Action: Using data to enrich applications allows Langan to bring advanced insights to action creating a data driven organization.

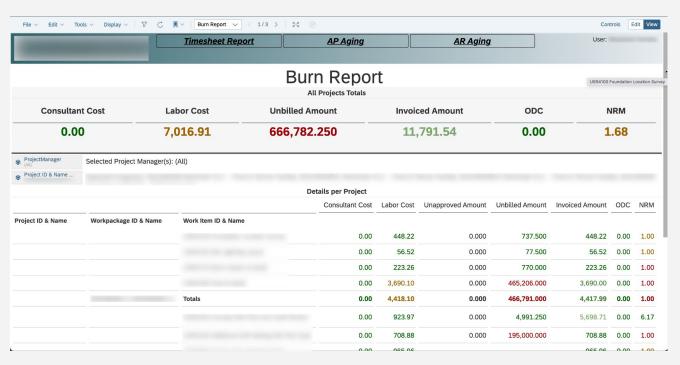


### **Customer Data Fabric**



## PM Dashboard

The PM Dashboard is a single location that project managers can go to in order to see all operational data about their projects - powered by **real-time data**.





## Meeting agenda

01	Avvale
02	Success Story
03	Modern Data Architecture: Lessons Learned and Best Practices





## Leveraging SAP DataSphere

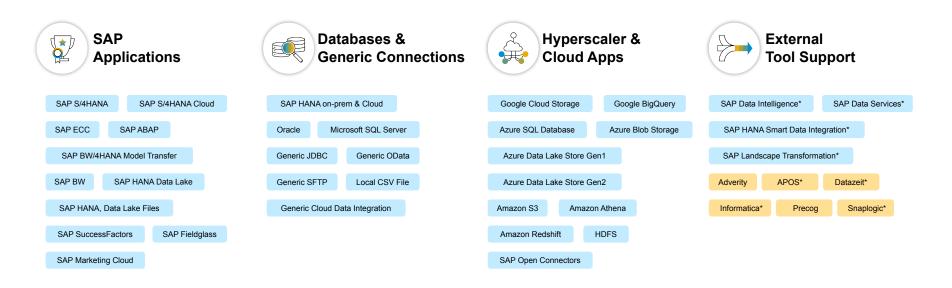
SAP DataSphere is a unique product that is a re-imagining of the traditional data warehouse paradigm.

- Data Fabric: Plan for a "Data Fabric"
  - a. **Unique Features**: Leverage Unique Features in SAP DataSphere
  - b. **Data Enriched Applications**: Enrich Applications

Pursue a <u>revolutionary</u> leap - rather than an <u>evolutionary</u> one"



## Unique Features: Open Connectivity



Real-Time Remote table replication

Flexible ETL capabilities

Remote table federation

Batch loads & transformations

Available Partner \* No dedicated connection tile

15

## TRUST Conect Other Data SALES SPACE MKTG SPACE Explore, Woody, CENTRAL COMPANY DATA SPACE R&D SPACE

## Unique Features: Spaces

- 1. Build off a governed "core" foundation to service all use cases
  - a. Data Acquisition
  - b. Harmonization
  - c. Model/Insight Generation
  - d. Cleansing/Quality Management
  - e. Tagging
  - f. Data Access Controls
- 2. Allows "Domains" to innovate on the "Core" at their own pace
  - allowing for "Data Mesh" Practices



#### **SAP Datasphere**

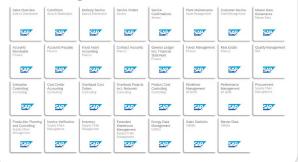
#### SAP



#### Partner



#### SAP BW Bridge



## Unique Features: Pre-Built Content

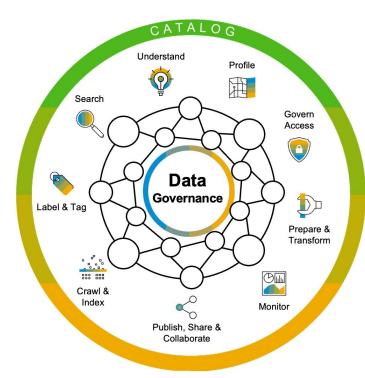
- Utilize Pre-Built Content as a starting point for development
  - a. Prebuilt Content includes lots of foundational views
  - b. Connecting and the importing of remote tables (connecting to CDS views)
  - Pre-built content can also help get SAC Stories ready
    - i. Conduct GAP Analysis Recommended especially for Greenfield Implementations
  - d. SAP Partner Content can also be a powerful accelerator for development



## Unique Features: Cataloging the Data Fabric

#### Data Needs 3 Factors to deliver value:

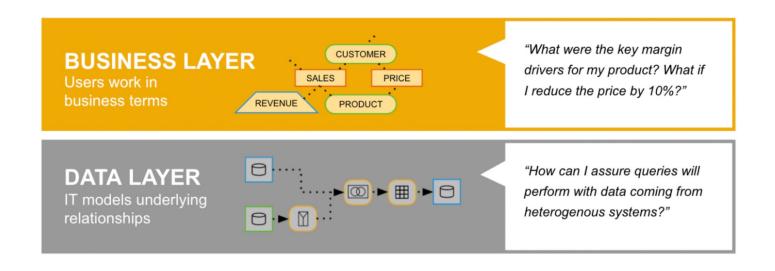
- 1. Discoverability
- 2. Trust
- 3. Accessibility





## Unique Features: Business Layer

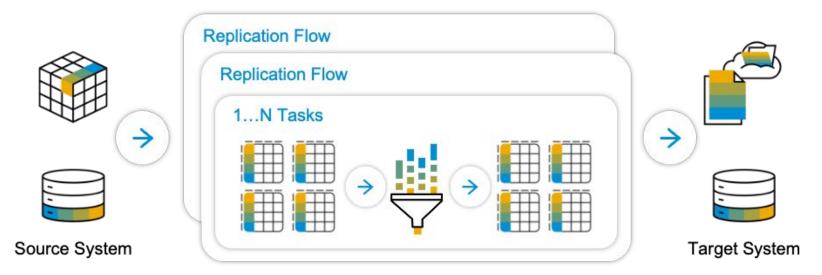
- Generating Data Products Not Datasets
- Build for the Business





## Unique Features: ETL - Replication Flows

- 1. Leverage Replication Flows for all ETL tasks
- 2. Wide array of sources available
- 3. Write to Cloud Store Objects\*







## Unique Features: A Leap from On-Premise to "D"PaaS

Radically reduce the burden of doing what's 'necessary - but not sufficient'

Reporting

**Application Administration** 

Application Patches & Upgrades

Server Management, Security and Uptime

**On-Premise** 

Data Fabric (Reporting, Apps and Data Science)

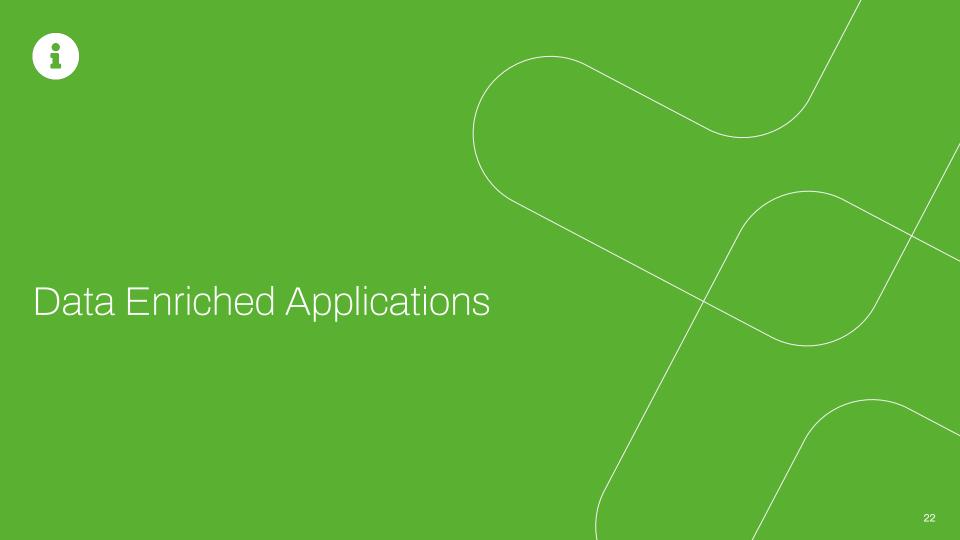
**Data Products** 

**Data Ingestion** 

Platform Management

**Native Cloud Solutions: PaaS** 

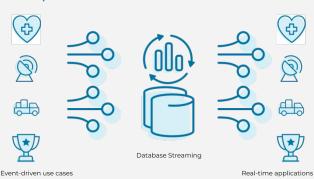




## Data Powered Applications

Datasphere should be treated as the de-facto foundation source of all value added data.

- 1. The need for Data Rich Applications is growing significantly
- 2. Datasphere has the capability to share any view of data as ODATA and in real-time
- 3. Datasphere has deep integration with S/4HANA Cloud and BTP. Datasphere can:
  - a. query in real-time any data generated by BTP Applications
  - b. be queried in real-time by any BTP Application
  - c. query any data in S/4HANA in real-time
- 4. These new capabilities allow for powerful scenarios where applications can leverage the rich insights and data generated by SAP Datasphere





## SAP Datasphere: Data Rich Applications

Example: The Project Creation Workflow was enhanced significantly by assessing the risk of a particular Project, Customer and Budget. Made possible due to a Real-Time Data Fabric Architecture powered by SAP Datasphere

# Workflow Before Project Created in BTP App Project Sent for Approval Project Approved Project Executed

#### Workflow After



0 \*\*\*\*\*

o .....

Datasphere

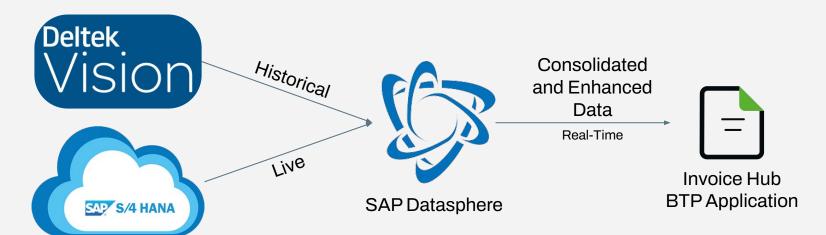
#### Other Examples:

- Invoice Hub
- Contract Verification



## SAP Datasphere: Data Rich Applications

**Example:** A custom invoice generation application is powered by SAP Datasphere to generate a complete invoice which includes aggregated finances from the old ERP as well as the new S/4HANA Cloud ERP. **Impact:** ~4 second query time vs. consistent failures due to consolidating S/4 and historical data at the client layer (ex. user laptop).





## Datasphere Momentum: 11+ Customers and Growing

Number	Industry	Strategy	Туре
1	Rare Earth/Mining	Datasphere + SAC	Greenfield
2	Lumber/Hardwood Manufacturing	Datasphere + SAC	Greenfield
3	CPG Food and Beverages	Datasphere + SAC	Greenfield
4	Professional Services	Datasphere + SAC	Greenfield
5	Professional Services	Datasphere + SAC	Greenfield
6	Construction	BW/4HANA + HANA DB -> Datasphere	Brownfield
7	Pharmaceutical	Datasphere + Snowflake + PowerBI	Greenfield
8	Manufacturing	BW 7.5 + SQL -> Datasphere	Brownfield
9	Manufacturing (Food)	BW/4HANA-> Datasphere	Brownfield
10	Manufacturing (CPG)	BWonHANA -> Datasphere + SAC	Brownfield
11	Retail Customer	BW 7.5 -> Datasphere + PowerBI	Brownfield





## How to Start?



- 1. Free Trial
- 2. Pre-Built/Partner Built Content Enablement
- 3. POC: MVP
- 4. Grow Footprint over Time







[ valēre, present active infinitive of valeō ] - be strong, healthy, matter.

Avvale is a Global Digital Business Transformation Company on a mission to help innovative business evolve through the circular economy, enabled by technology.

## **Industry Focused approach**

Supporting both Fortune 500 and Midmarket in 15 sectors on the field.



## 3,000+ People

An inclusive mix of cultures, competences, attitudes and experiences to create

One Unique Company.

## \$350 MM Revenue for 2023

Double digit growth year over year, since **2004 - Techedge foundation**.









## Data Intelligence

Avvale has a Global Data Intelligence Practice to unlock the value of data by improving Operational Efficiency and providing Strategic Insights in an environment of **constant and accelerating change.** 



## 300+ People

An expanding practice with an inclusive mix of cultures, competences, attitudes and experiences across the Globe.

# Multiple DataSphere Implementations across the globe across industries

SAP DataSphere experience dating back to **2019**.



Global Data Team 20+ offices







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Thank you!

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