



Do what matters

# Data Mesh with Microsoft Fabric

# Organizations are struggling with getting durable value from data

What **data** do I have?

Is it **trustworthy**?

**Can people access the data** needed to make the right decisions?

How can I **enable faster business insights**?

What's my **compliance exposure**?

Microsoft Fabric's architecture supports organizing and grouping data into business domains where data is authored, managed and used to drive insights and business value. It also enables data mesh aligned decentralized governance, giving each business unit or department some level of ability to set their own rules and restrictions for data management based on their unique needs.

**Your data, my data,  
our data.**

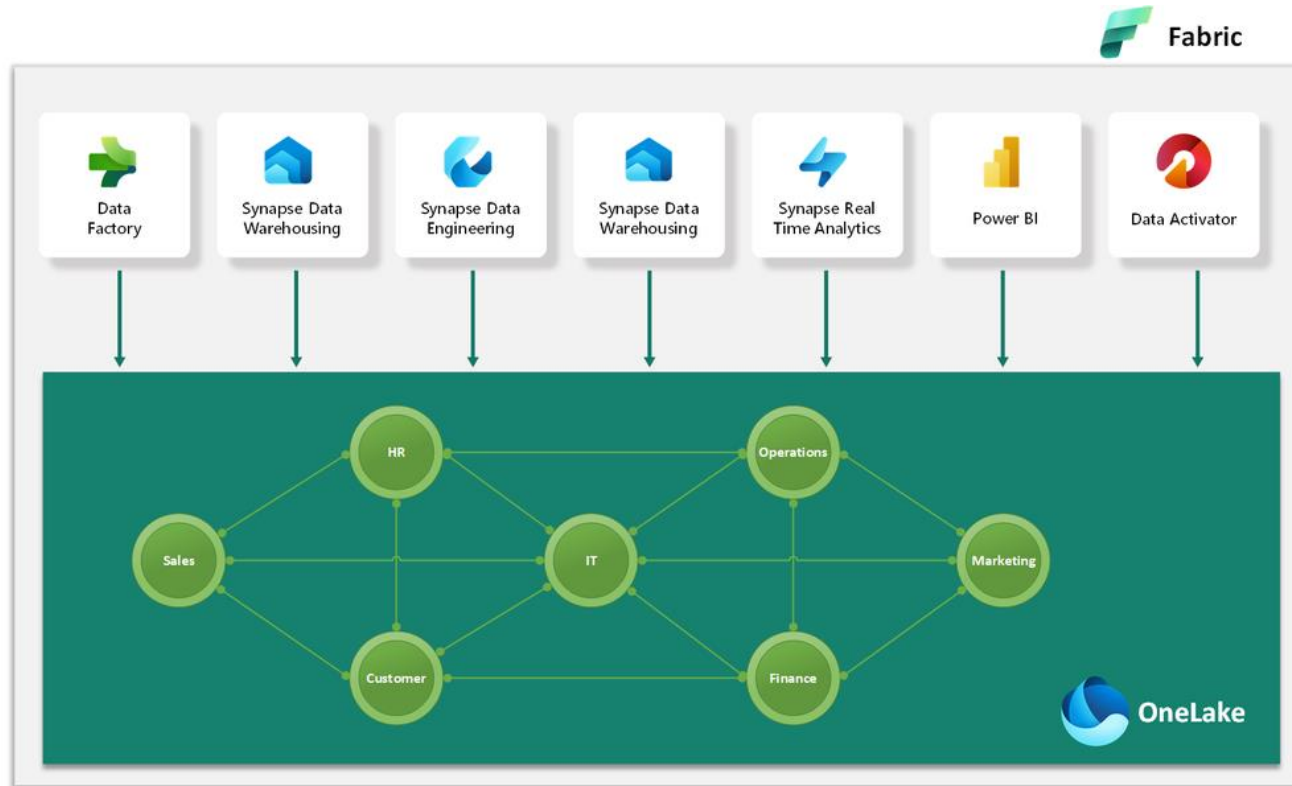
**Transparency is in,  
opacity is out.**

# Centrally Governed and Open For Collaboration

## A true data mesh across organizational data domains

The companies that we are working with typically fall into two categories – they have modernized their legacy data systems already or they are just starting their migration and modernization journey.

What they have in common is that they are struggling with creating transformative and durable value from their data because they don't have adequate data infrastructure, governance and metadata management capabilities to democratize data beyond the small group of practitioners, and to enable AI-first data ecosystem.



### Benefits of a Data Mesh built on Microsoft Fabric

- Fabric workspaces for different data domains help to logical break up the data lake
- Using shortcuts data from different domains can be analysed, blended and transformed together without moving the data
- Data is secured and governed in one place while remaining easily discoverable and accessible to all who should have access across the organisation
- Business semantics including relationships, descriptions and measures, live with the data in the lake
- Data can be certified by domain experts to enable trust for data which is discovered
- Source system aligned workspaces provide a decoupled replacement for the complex Data Warehouse extraction layer

# Putting it all together.

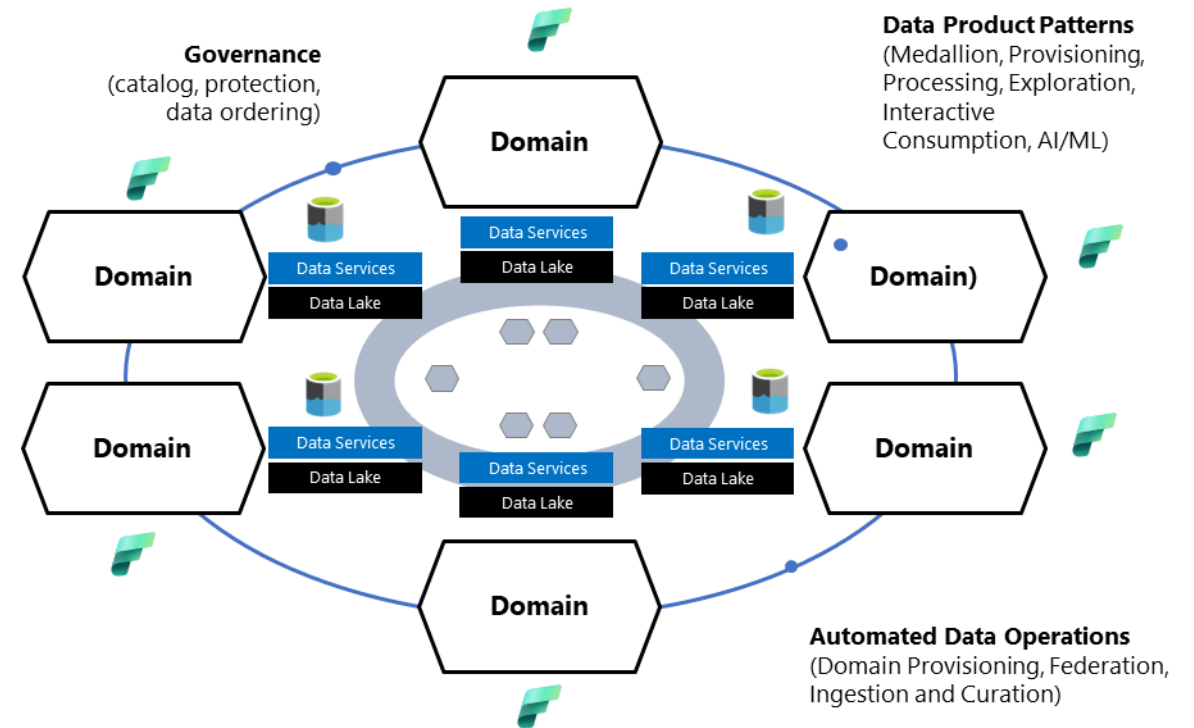
## Unifying domains, data lakes, and data products

### Key guidelines and design principles

Microsoft Fabric data foundation and analytical ecosystem is supported by logical data lake (OneLake) with set of persona-based experiences that connect enterprise data with a common services framework.

It typically has the following characteristics and components:

- OneLake optimized storage layer with Delta format as the foundation for storing data and tables across distributed data estate
- Same data reusability with in-place access by multiple analytical compute engines
- Metadata catalog as the repository for key data assets to support discovery, lineage and data use governance
- Data services patterns supporting authoring of core, derived, and analytical data products
- Support multi-cloud data and use cases
- Automated data management operations to reduce the complexity and level of effort associated with data ingestion and provisioning





# Activating the Composable Solution

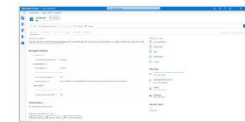
The three foundational technology solution pillars for modern end-to-end analytics ecosystem with Microsoft Fabric include enterprise data governance, data management foundation, and domains and data products.

Microsoft implementation guidance combined with our assets, accelerators and real-world client experience is helping our clients supercharge their modernization journey. To help prioritize value saving opportunities we have developed data modernization measurement framework to guide activation based on business value and measurable impact, with set of KPIs and value metrics across the platform and data operations, data access management, analytics efficiency, and infrastructure costs.

## Microsoft recommended implementation & guidance

1	<b>Enterprise data governance</b>	<b>Data governance</b> <ul style="list-style-type: none"> <li>Lineage</li> <li>Classification</li> <li>Policy</li> </ul>	<b>Data ordering</b> <ul style="list-style-type: none"> <li>Rapid access to data</li> <li>On premises or Azure</li> </ul>
2	<b>Data management foundation</b>	<b>Lakehouse as a foundation</b>	<b>Automated data management</b> <ul style="list-style-type: none"> <li>Data-agnostic ingestion</li> <li>Standardization</li> <li>Quality</li> <li>Metadata registration</li> <li>Access provisioning</li> </ul>
3	<b>Domains and data products</b>	<b>Autonomous domains</b> <ul style="list-style-type: none"> <li>Domain provisioning</li> <li>Analytics federation</li> <li>Ingestion and curation</li> </ul>	<b>Analytical Patterns</b>

## Avanade Intelligent Data Platform Assets, accelerators, and experience



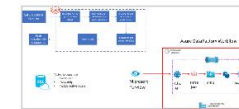
**Data policies and controls with Purview managed attributes**  
Collection of managed attributes to kickstart enterprise data governance and policies implementation in Purview.



**Integrated data access management and ordering with Purview**  
Low code workflows and solution accelerators to augment Purview integrated delegated access management and data ordering with AAD identity governance features.



**Intelligent Data Platform Build Asset**  
Industrializes Lakehouse metadata driven data provisioning, standardization, segregation, validation, transformation, and notifications using Azure native services.



**ATLAS API Automation Workflows**  
Spark based workflows automating metadata registration across operational and analytical data planes facilitating data health throughout the data lifecycle.



**Intelligent Data Platform Deployment Asset**  
Infrastructure as Code accelerator and framework that supports modular (Terraform, Biceps, etc.) workflow-based pipeline deployment of lakehouse, data mesh, and data fabric architecture in Azure.



**Data Services Patterns and Implementation Guidance**  
Data service patterns designs and implementation guidance supporting decentralization of data product authoring and ownership, and flexibility to evolve to distributed platform.

# The road to governance at scale with Data Mesh and Microsoft Fabric

You might think that building modern analytics and governance at scale is an expensive, multiyear process. Think again. We can help you achieve results within months. Our recommended four-phase process includes the following:

## Assessment and Design

**Four weeks**

We assess your current state and design your future state. Our assessment covers architecture, services, deployment, people and organization, use cases and value realization. Our recommendations include high-level design as well as data catalog design, prioritized MVPs and roadmap alignment.

## Minimum Viable Product (MVP)

**Three sprints**

We help you achieve your first MVP in just six weeks, including deployment of foundation services and onboarding one data product to a domain.

## Phase 2

**About two sprints**

We support the onboarding of more data products and optimize the user interface and operation to be ready for full production. This includes both data governance and data discovery capabilities.

## Phase 3

**Several months**

We continually enhance the data infrastructure with additional data governance, discovery, ingestion and data management capabilities.

# Why Avanade?



## The largest Microsoft Partner for Azure Data Services

Accenture & Avanade are recognized by Microsoft as its largest global partner for Azure Data Services (ADS) in 2023. This means that our client base uses Azure for Data, Analytics and AI services more than any other professional services firm or systems integrator.



## Databricks Global Partner of the Year

Databricks is an initial pioneer of the Lakehouse architecture. We were the 1st major partner of Databricks when we signed a strategic partnership in 2018. Since then, Databricks' Delta Lake has become one of the most widely used lakehouse format. We have been awarded Databricks Partner of the Year for the last five years.



## We are 'Fluent in Fabric'

We were a preview partner for Microsoft Fabric, which has enabled us to train over 2,000 employees on Microsoft Fabric. We even have launched our own Microsoft Fabric University



## 32,000+ dedicated Data practitioners on the Microsoft Intelligent Data platform

We have the largest and most innovative community of experts on the Microsoft Data product and service suite

## 2023 Microsoft awards

- Microsoft partner of the year (for 18<sup>th</sup> year)
- Global SI partner of the year
- UK, Greece, Singapore, Germany, France, Portugal, Malaysia (+ more) country partner of the year
- Low code application development partner of the year
- Customer Experience partner of the year
- Asia Pacific Data & AI partner of the year

## Other awards (2023)

- Databricks global partner of the year
- Databricks EMEA partner of the year
- Databricks North America partner of the year

## Major sponsor (2023)

- Microsoft Build
- Microsoft Ignite
- Databricks Data + AI Summit
- Databricks World Tour



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