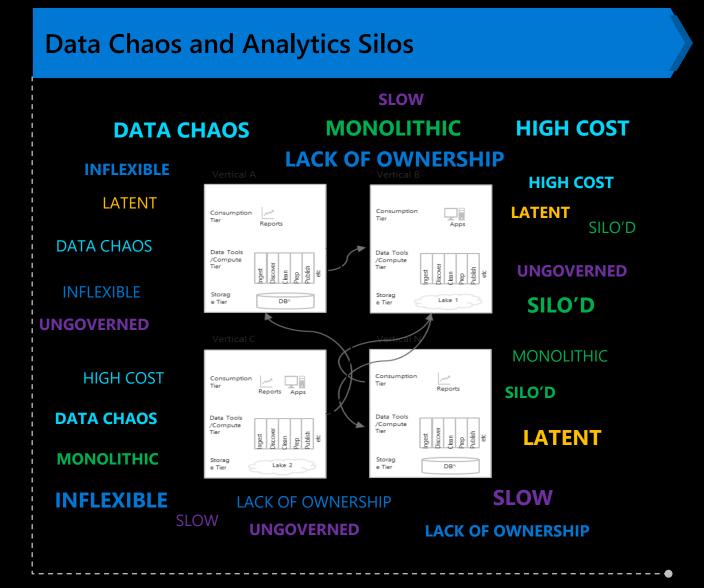




Analytics in the era of Al

Stelios DontasSolution Area Specialist, Data & Al

Monolithic Data Estate with vertical pockets of analytics



Many local/vertical analytics compute & storage platforms with differing underlying analytics architectures

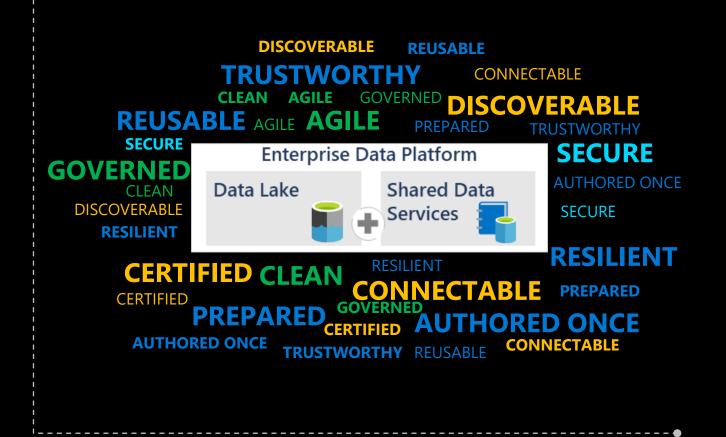
Each highly specialized to the unique data & stakeholder needs

Each have significant code bases & engineering teams

Many engineered outside of IT

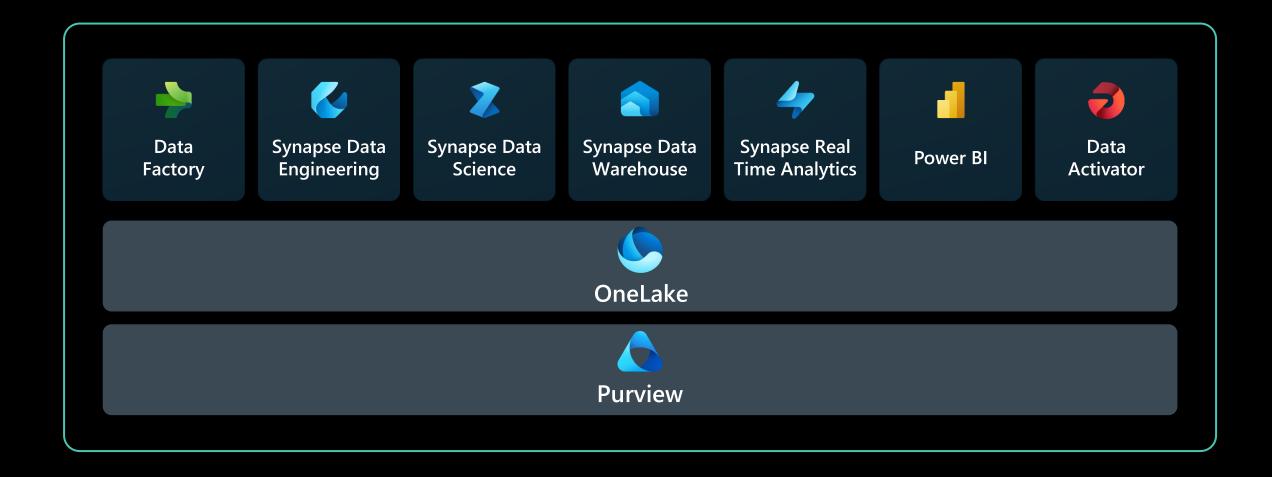
Target Data Estate

Data – Disciplined at the core, flexible at the edge





Microsoft Fabric Data analytics for the era of Al



OneLake for all Data

"The OneDrive for Data"



A single SaaS lake for the whole organization

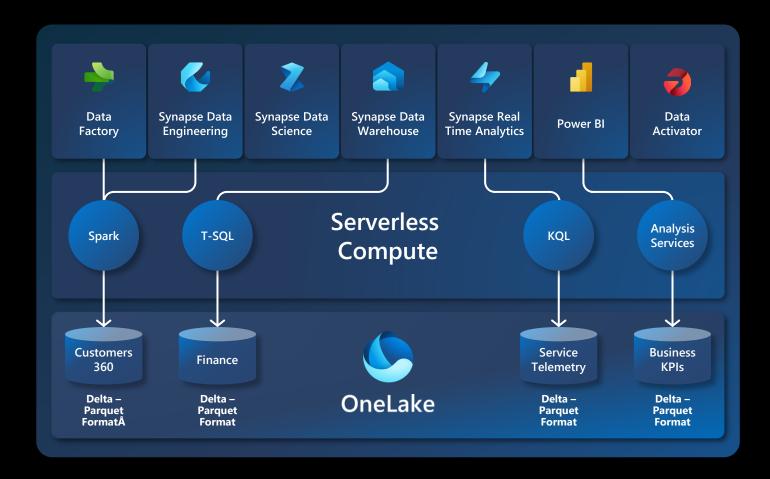
Provisioned automatically with the tenant

All workloads automatically store their data in the OneLake workspace folders

All the data is organized in an intuitive hierarchical namespace

The data in OneLake is automatically indexed for discovery, MIP labels, lineage, PII scans, sharing, governance and compliance

One Copy for all computes Real separation of compute and storage



All the compute engines store their data automatically in OneLake

The data is stored in a single common format

Delta – Parquet, an open standards format, is the storage format for all tabular data in Analytics vNext

Once data is stored in the lake, it is directly accessible by all the engines without needing any import/export

All the compute engines have been fully optimized to work with Delta Parquet as their native format

Shared universal security model is enforced across all the engines

One Copy for all computes Universal security makes it real



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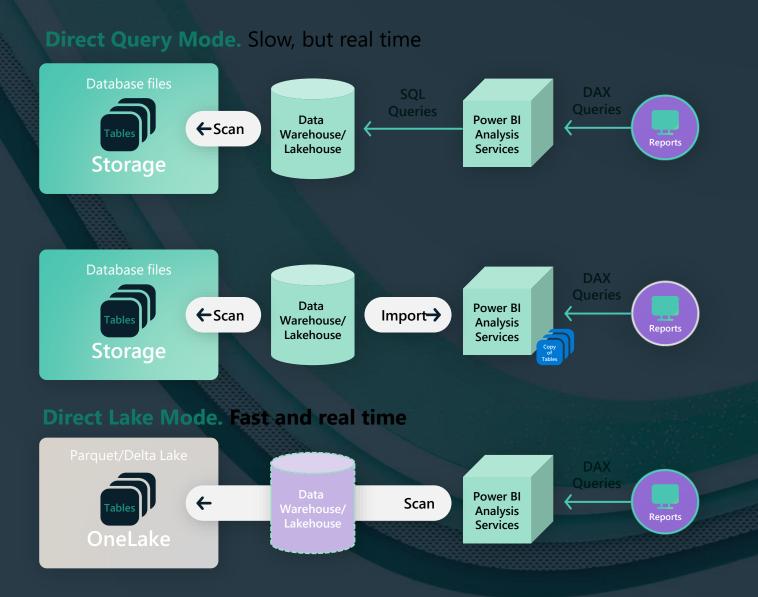
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Power BI | Direct Lake Mode

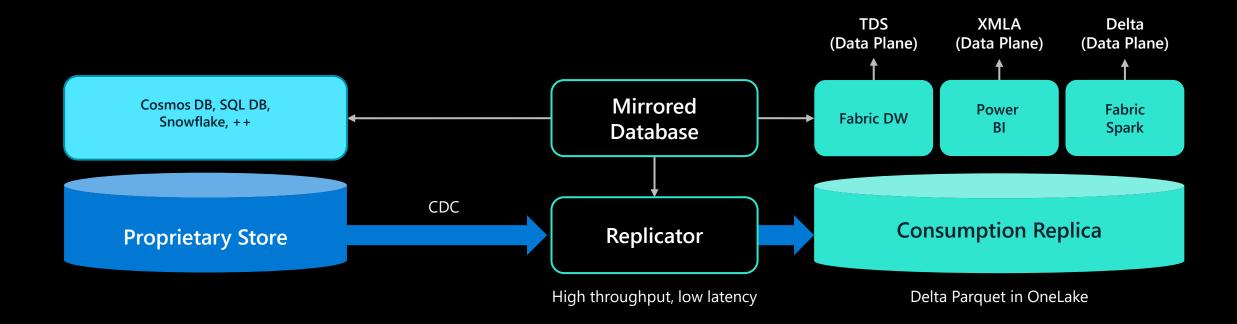
Direct Lake is a fast-path to load the data from the lake straight into the Power BI engine, ready for analysis

Direct Lake is based on loading parquetformatted files directly from a data lake without having to query a Lakehouse endpoint, and without having to import or duplicate data into a Power BI dataset



Mirroring in Fabric

Near real-time replication of proprietary database stores with zero-ETL





Microsoft Fabric

Intelligent data foundation



Data IntegrationData Factory



Data Engineering Synapse



Warehouse Synapse



Data Science Synapse



Real Time Analytics Synapse



Business Intelligence

Power BI



Applied Observability

Data Activator



Powered by AI with Copilot in Microsoft Fabric



Unified data foundation



Persistent data governance and security
Purview





Thank you

