



Unlocking the Potential of Microsoft Fabric

in Modern Advanced
Analytics

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Microsoft Fabric is upon us with a grand fanfare launch. There are a lot of internal core changes going on in Fabric for the new 3rd generation which will support the digitalization of small to enterprise organizations and make it easy, integrated with AI and visualization, more important, make licensing simple and affordable.

“We are living in innovating times in Data & Analytics/AI” – Microsoft says with Microsoft Fabric OneLake



Present Business Trends

Adoption of a SaaS (Software as a Service) platform for applications

Adoption of PaaS (Platform as a service) & SAAS (Software as a Service) platform on cloud for digitalization

Volume - Data Storage sizes are becoming exponential 63% growth

Data Processing with ML (Machine Learning) / AI tools Number of applications with Line of business (LOB) data

Need to incorporate AI models to provide meaningful insights / predictions

32%

32% of companies reported being able to realize tangible and measurable value from Data
Source: Accenture

55%

55% of companies have a mostly manual approach to discovering data within their enterprise.
Source: Accenture

75%

We know that “by 2024, 75% of organizations will have established a centralized data and analytics (D&A) center of excellence to support federated D&A initiatives and prevent enterprise failure.”
Source: Gartner, Our Top Data & Analytics Predicts

What we like in Microsoft Fabric- OneLake

- ▶ Microsoft Fabric All-inclusive and integrated necessary azure Service For digitalization supports business trends.
- ▶ We always want to have the data from the compute engines saved in one Place and to be able to access that data as delta Parquet files. At last, we have this transparency after decades of not being able to pick under the hood of some proprietary file format.
- ▶ Creating spark instances are extremely fast, 1 to 2 seconds against 1 to 2 minutes in data lake.
- ▶ We also like very much the ability to use different engines to access that Data (Microsoft calls this One Copy). We can query a table in the lakehouse directly from the data warehouse without having to create PolyBase external tables or use the serverless endpoint.
- ▶ We welcome the possibility for better data virtualization both within and outside the organization. For example, in a lakehouse I can create shortcuts to other Fabric Lake houses, ADLS (Azure Data Lake Storage) folders, and even external storage systems, such as S3 (Google and Dataverse are coming).
- ▶ We liked the governance aspect and the possibility it enables lineage tracking and data security. OneSecurity is on the roadmap, where once you secure the data at OneLake, the data security snowballs to entire Fabric. It would be interesting to see how this will work and its limitations, as we did say it will not be as flexible as Power BI (Business Intelligence) RLS (Row Level Security).
- ▶ Open AI and copilot are integrated in Microsoft which will be a great advantage for business users.



91%

Of leaders reported an increased investment in data and analytics

Source: Gartner

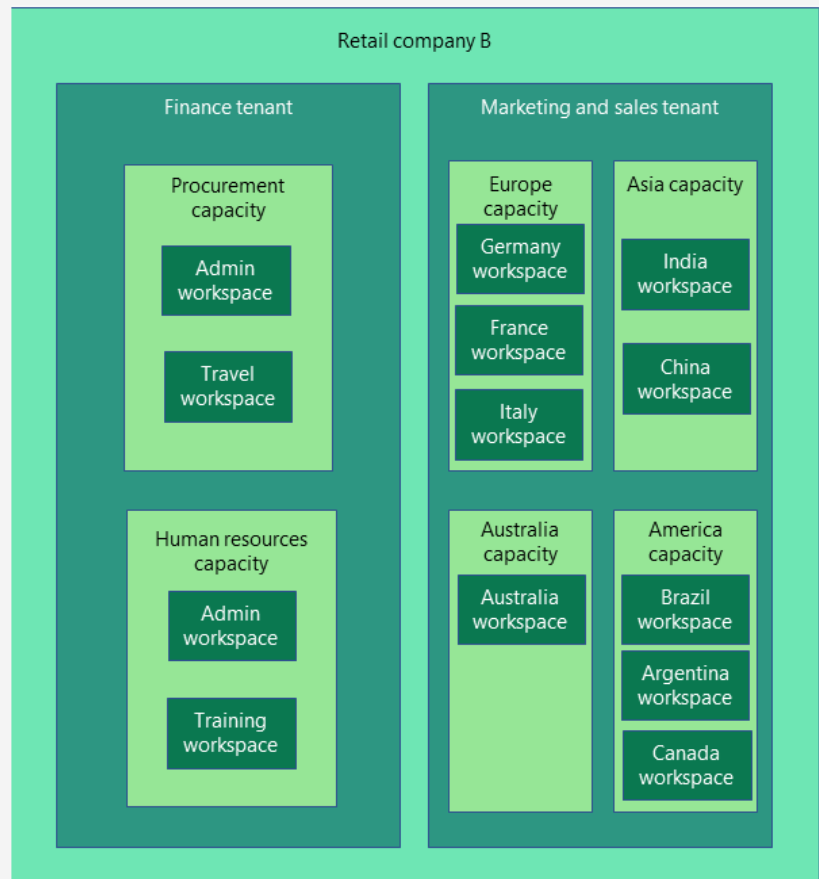
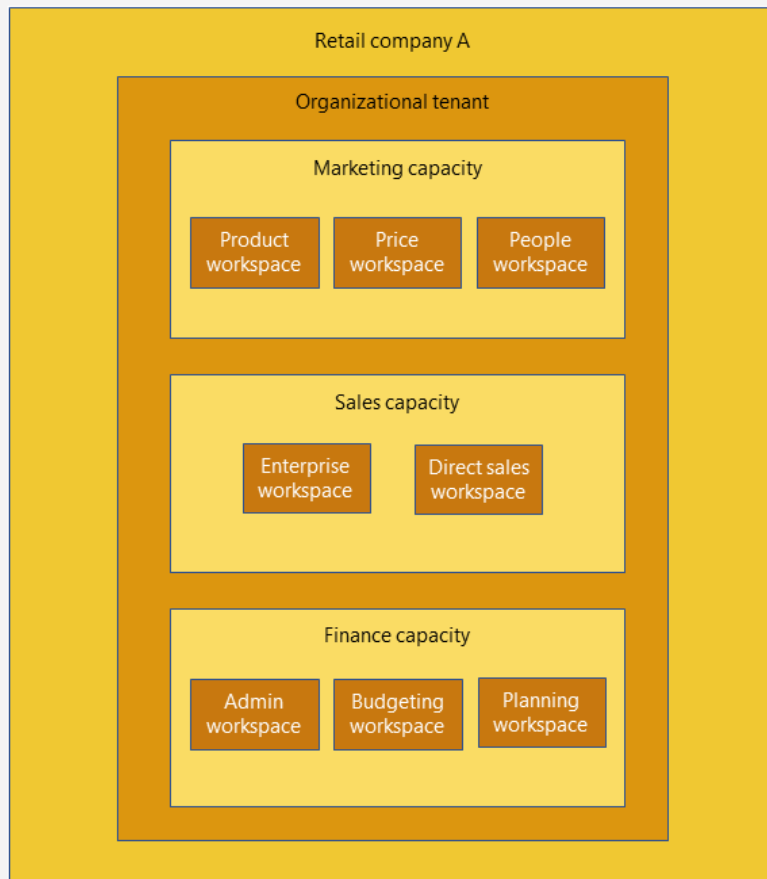
45%

Of organizations are seeking to automate workflows to decrease errors and improve customer satisfaction

Source: 2McKinsey

Simplified Universal compute capacities

- ▶ Very often we see licensing is overly complicated and complex. Purchasing and managing resources is massively simplified with Fabric. Customers can purchase a single pool of compute that powers all Fabric experiences.
- ▶ With this all-inclusive approach, customers can create solutions that leverage all workloads freely without any friction in their experience or commerce. The universal compute capacities significantly reduce costs as any unused compute capacity in one workload can be utilized by any of the workloads.
- ▶ For Power BI Premium customers, existing Power BI Premium P SKUs (Stock Keeping Units) will automatically support all the new Fabric experiences. Starting June 1, new Fabric SKUs will be available for purchase in the Azure portal that gives you access to all these experiences.



Modern cloud scale Business Data and Analytics

Microsoft Fabric & Power BI
is the way to go



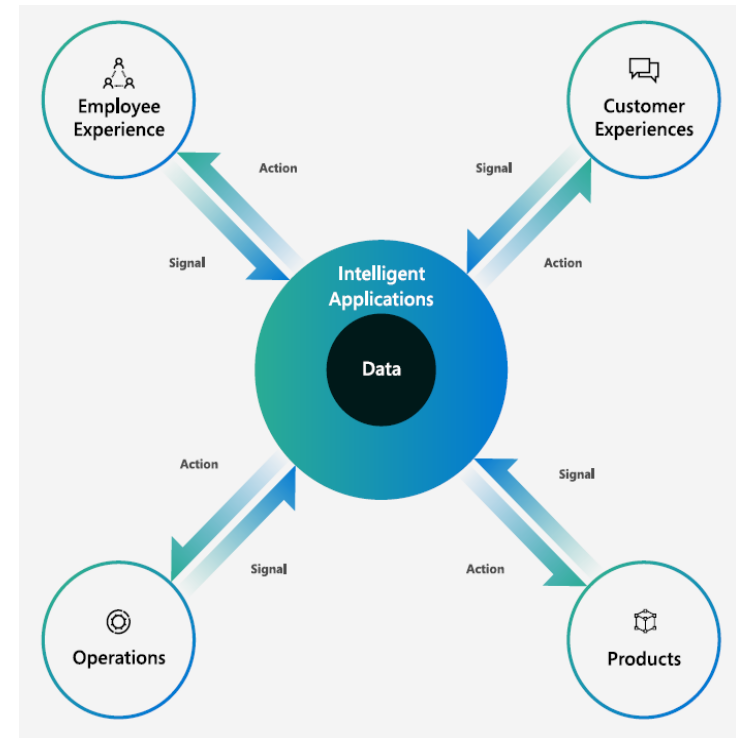
Integrated workspaces give more flexibility between synapse, power BI and data explorer. Unified data foundation with OneLake and Direct Lake mode makes Power BI visualizations fast with Serverless pools for self-service analytics without importing the data into Power BI services.



In Microsoft Fabric for advance analytics with AI/ML and insights can be developed in one place which helps customer ROI.



We see Improved performance in OnLake compared data lake with reduced storage and optimized query performance which benefit Power BI direct real time analytic



Proven Industry Dream demos with Power BI with insights and rich visualization

Good to know:

Some improvements Microsoft Fabric resolves when it goes for GA

01

Need to give flexibility on how we can work with other products in Azure services.

We cannot create with the Tables folder to organize your delta lake tables in bronze, silver, and gold zones. We cannot see another solution but to create a Power BI workspace for each zone.

02

An API wrapper is a double-edged sword because it wraps abstract things.

You really must embrace the Power BI catalog and its security model along with their limitations because there is no way around it.

03

Shared Access Signature is not allowed

Storage account key is not an option too as you do not have access to the storage account. So, to get around such limitations, you would have to create separate storage accounts, but this defeats the promise of onelake.



04

How to address data residency requirements of some countries which have data restriction policies.

05

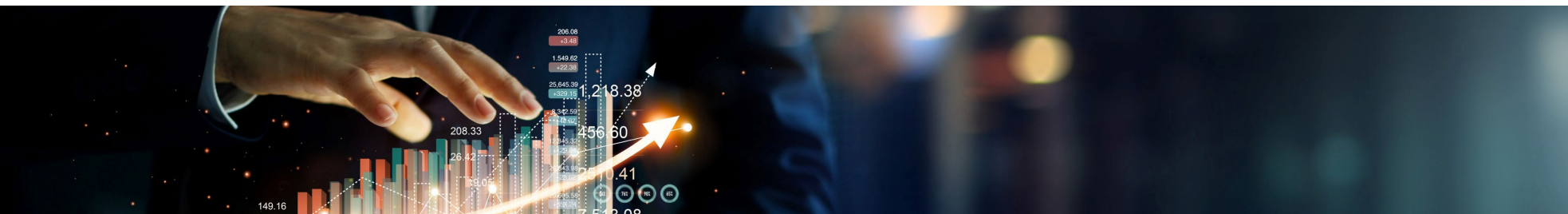
We are looking forwards to seeing how Fabric would address DevOps, such as Development and Production environments. The best practice is to separate all services so more than likely Microsoft will enhance Power BI pipelines to handle all Fabric content. We do see some work on GitHub actions on this line of thinking.

06

One needed opportunity on Power BI for the lack of hierarchical workspaces? Since OneLake is married to the Power BI catalog, more catalog flexibility is essential.

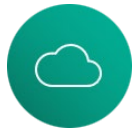
07

Given that OneLake and ADLS in general would be a preferred location for business users to store reference data, such as Excel files, Microsoft should enhance Office to support ADLS. Currently, Office apps cannot directly open and save files in ADLS. Consequently, business users favor other tools, such as SharePoint Online, which leads to decentralizing the data required for analytics.



Power business decisions with cloud-scale analytics

Unlock the business value you expect and achieve more with less by unifying your hybrid and multi-cloud data estates for faster, connected intelligence.



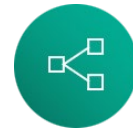
Unify your hybrid and multi-cloud enterprise data estate for analytics

Establish a regulated hub to centralize and organize all your business data, creating a foundation for innovative analytics. Streamline your workloads and enable your data engineers to spin up analytics solutions faster than ever before.



Build fit-for-purpose analytics models

Leverage the full potential of your data by constructing ML and AI models on a connected foundation with no data movement. Enable data scientists to perform analysis on large volumes of data in real time leveraging the tools and languages they already know.



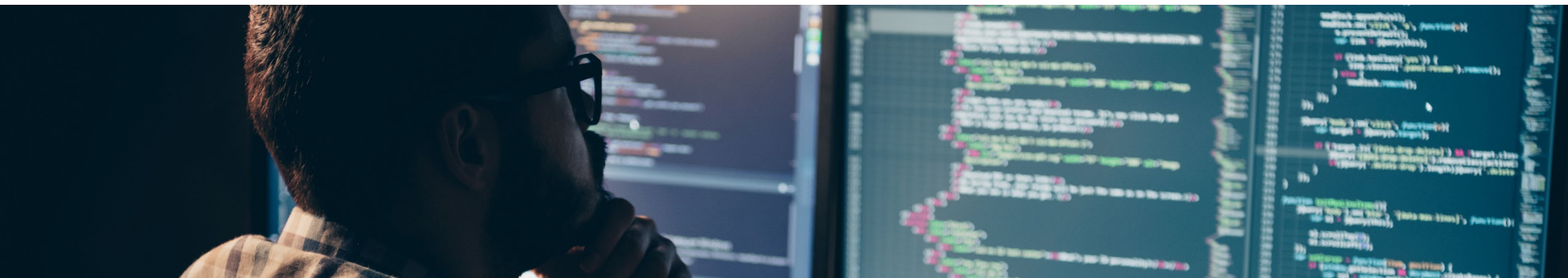
Responsibly democratize analytics with data governance

Connect the services you need to enable an open, scalable analytics platform with built-in security and governance. Equip your data engineers, data scientists, and data analysts to access the right data, at the right time, for ease of democratization.



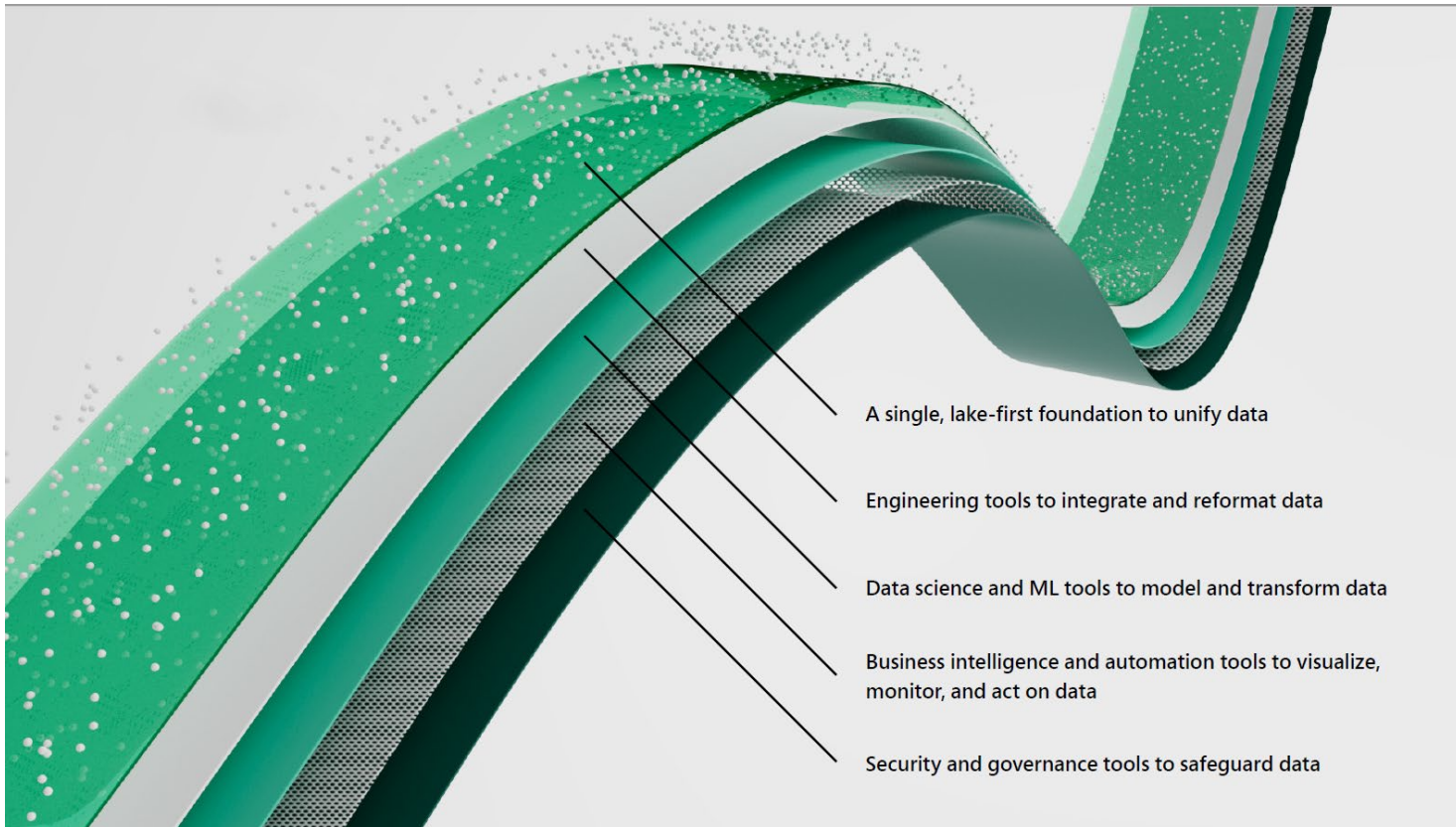
Scale transformative analytics applications

Equip data analysts and data citizens with robust self-service analytics tools to expedite innovation with real time insights. Create connected intelligence for all applications to enable better decision-making and transformative impact.



Our Conclusion on Microsoft Fabric Preview

We advise using your Microsoft Fabric-free environment for 60 Days and wait up to September 2023 once it will GA and see the development underneath and concreteness of these services and how they integrate in gray areas. Microsoft Fabric is worth it for ease of use, unifying the data with AI and visualization. You are one step ahead for digitalizing your organization.



4x

improvement in revenue performance and better customer satisfaction embracing a data-driven culture experience

Source: How to lead a data-driven digital transformation by Harvard Business Review

The Netwoven difference

- ▶ Expertise in cloud SAAS & PAAS enabling and integrating with modern Data warehousing, Microsoft Fabric and Data Mesh assessments, Data preparation, proof of concepts, and pilots before production cutovers with end-to-end advanced Analytics for insights.
- ▶ Industry dream demos with real-time and batch with Power BI advance insights with AI and cognitive search. Customizing with Microsoft Fabric for specific customer scenarios.



Data Management

Extensive expertise in data governance, data integration, data quality management, data warehousing, and data architecture. This includes skills in data modeling, data cleansing, and data transformation.



Business Understanding

Delivering business-critical solutions for well over two decades for leading enterprises from domains like Manufacturing, Retail, Healthcare, F&O, Logistics and more. We comprehend specific business processes, key performance indicators (KPIs), and the overall objectives and challenges faced.



Analytics Tools and Technologies

Deep competency with SQL, R, Python, Power BI, SAS, and Tableau, along with statistical analysis and ML & AI puts it at advantage for optimal usage of Microsoft Fabric with copilots.



Analytical Skills

Our experts perform advanced analytics, including data mining, predictive modeling, forecasting, segmentation, and optimization for accurate interpretation of the results.



Discover **How Microsoft Fabric Helps Implement Data Observability in Your Organization**

[Read The Blog](#)

Our focus Points



Problem-Solving Approach

We thrive on problem-solving and the ability to identify the client's key business questions and challenges.

We are skilled at translating business problems into data-driven hypotheses and designing analytical approaches to solve problems effectively.



Data Visualization and Reporting

Several years of expertise in data visualization techniques and the tools required to create meaningful dashboards, reports, and interactive visualizations enabling stakeholders to grasp insights quickly.



Communication and Collaboration

Effective communication and collaboration are our forte.

We work closely with clients, understand their requirements, and translate technical concepts into business terms.



Data Privacy and Security

We are a leading Microsoft Solutions Partner for information protection, data security and compliance.

About Netwoven

Netwoven is a trusted Microsoft Solutions Partner who unravels complex business problems leveraging Microsoft technologies. We create and implement digital transformation strategies around secure collaboration, modern software applications, deeper insights from data, modern infrastructure, and security.

Netwoven is a global company headquartered in the San Francisco Bay area, founded in 2001 by senior-level executives from Microsoft, Oracle, and Intel.



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