

How Can Microsoft Sabric Have an Impact on Your Business?

Paul Andrew

Technical Architect





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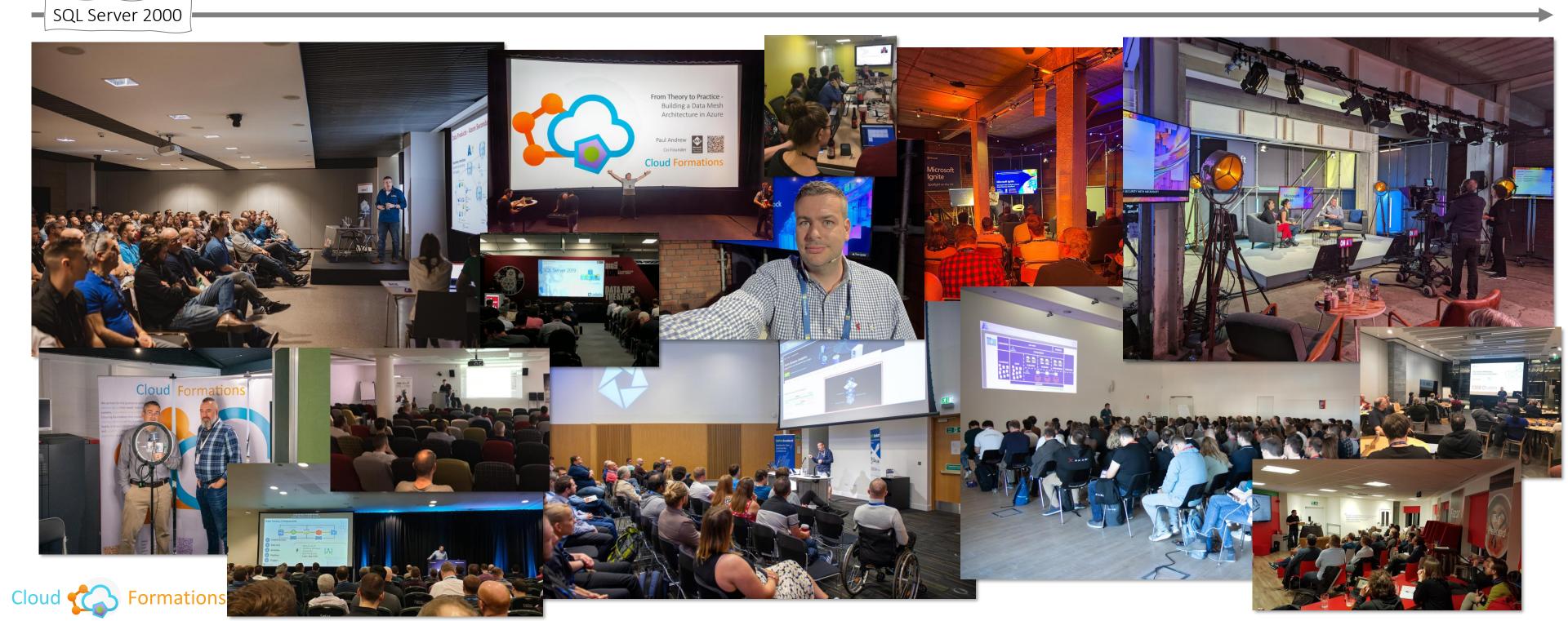
Paul Andrew



Founder & Director

Chief Technology Officer

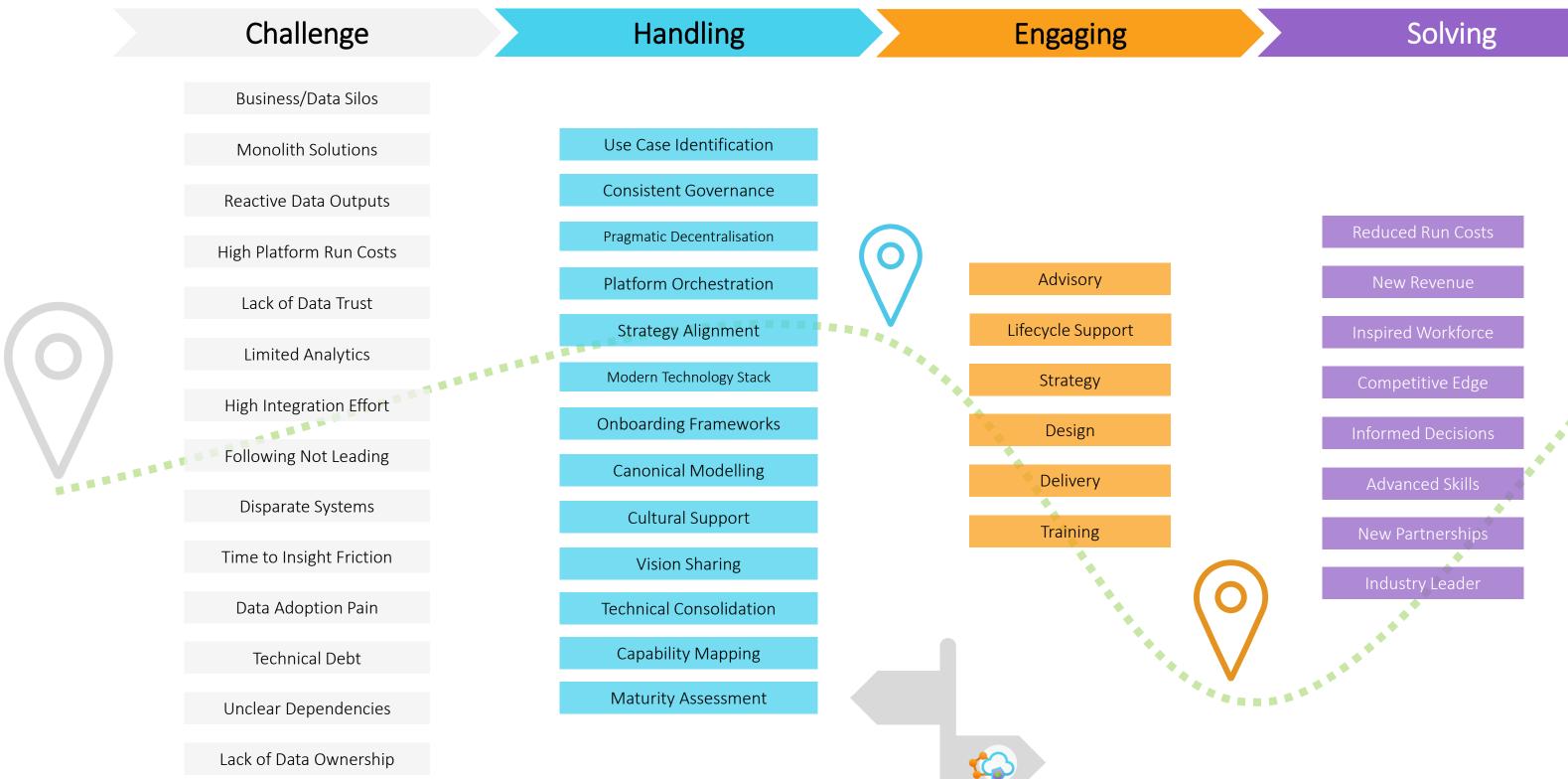




- /mrpaulandrew
- @mrpaulandrew
- In/mrpaulandrew
- Mentor | Author
- Speaker | Podcast Host
- Event Organiser

Common Data Problems

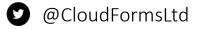
Identifying Pathways to Value and Data Insights











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Abstract

All this talk about Data-Ware-Lake-Delta-Beach-House-Lakes (or some combination of that) and Data, Yarn, Fabric integration, everything has got a bit... Meshy! Yes, my friends. The beat of the technology drum is certainly relentless. And with no limits cloud scale and huge innovations from the biggest brains. Two years, it seems, has become the benchmark for tools to live and die by. Reach three years and you almost have a mature product. That said, Microsoft Fabric, the latest offering from global software giant is no exception. But what does this mean for the real world. For the data analysts, engineers and scientists that need to continue answering everyday problems to inform business decisions. In this session we will firmly ignore the hype and focus on the reality. With the pragmatic view of an experienced architect. The problem of gaining insights from our data hasn't changed. So, what does this mean if implemented using Microsoft Fabric. What, why and how is the tooling going to change our daily deliverables in the short term, medium and long term. Join me for these answers and more as we explore the impact of Microsoft Fabric-Server, erm, Power. Resource. Thing!

Q: How Can Microsoft Fabric Have an Impact on Your Business?

A:









Q: How Can Microsoft Fabric Have an Impact on Your **Business**?







Q: How Can Microsoft Fabric Have an Impact on Your **Business?**







What Does Q: How Can^VMicrosoft Fabric Have an Impact on Your Mean For Business?







Why Implement O: How Can Microsoft Fabric Have an Impact on Your As Part Of Business? Technology Landscape

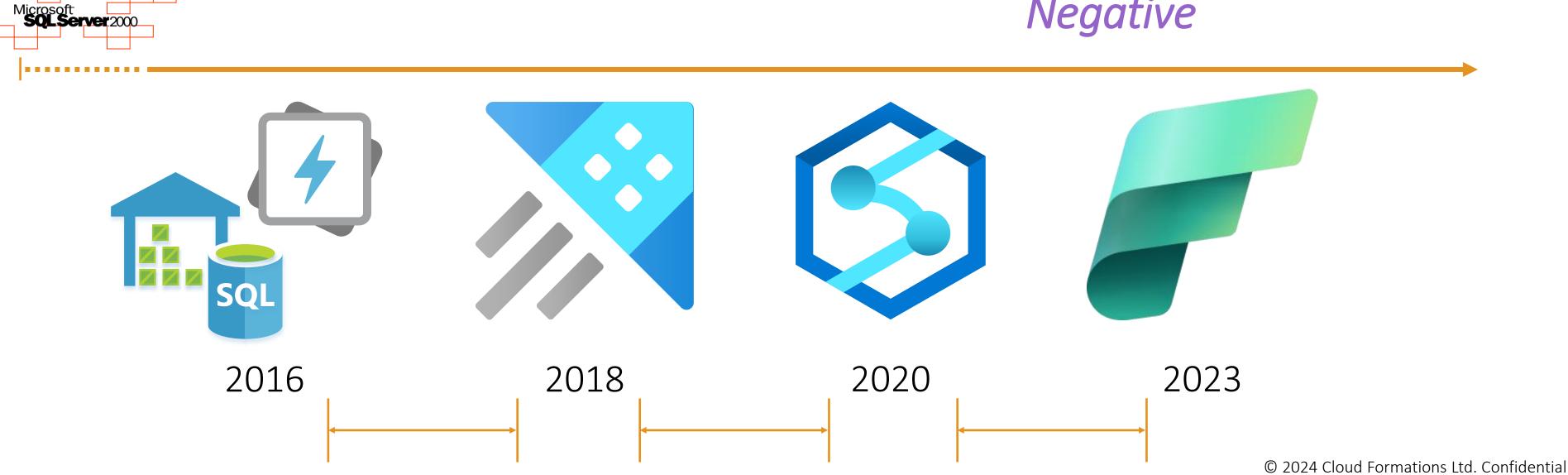






Will How Can Microsoft Fabric Have an Impact on Your *Positive or* Business? Negative

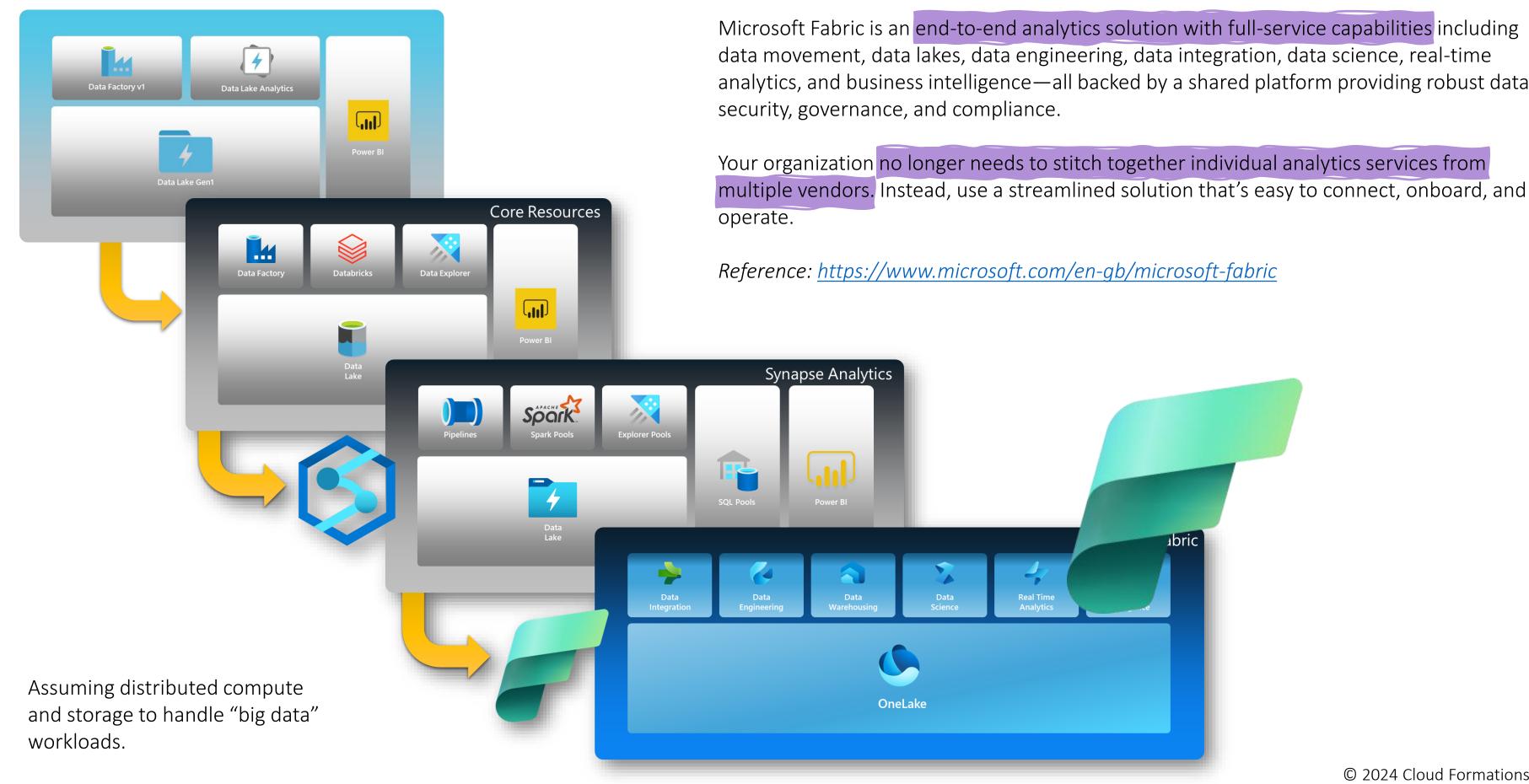






Will How Can Microsoft Fabric Have an Impact on Your *Positive or* Business? Negative

What is Microsoft Fabric? – Vision and Stack Evolution





analytics, and business intelligence—all backed by a shared platform providing robust data

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What is Microsoft Fabric?

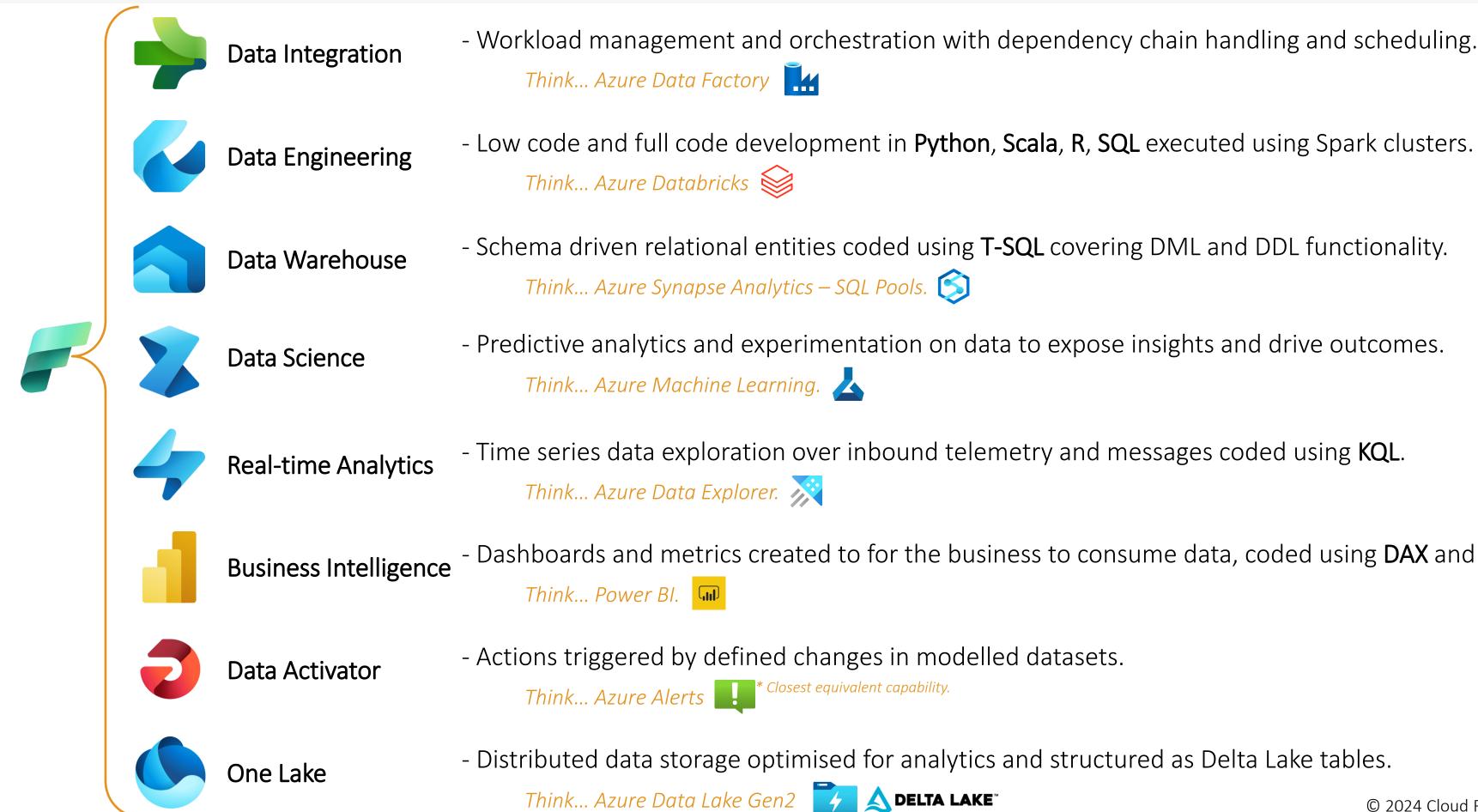
Knowledge Transfer & Training **Cloud Formations -**





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What is Microsoft Fabric? - Experiences vs Technical Capabilities



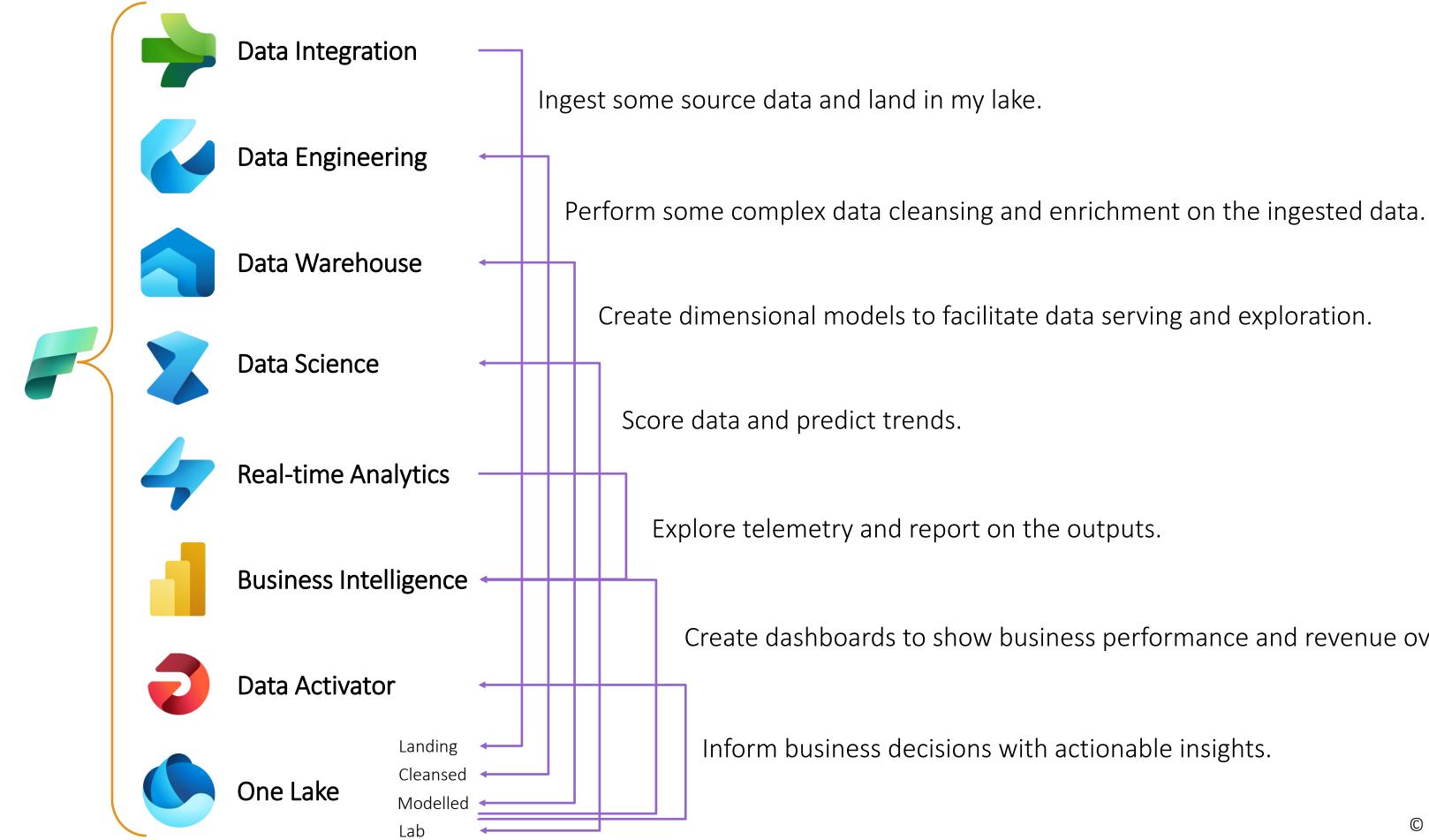
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- Dashboards and metrics created to for the business to consume data, coded using DAX and M.

What is Microsoft Fabric? – As a "Traditional" Development Workflow





Create dashboards to show business performance and revenue over time.

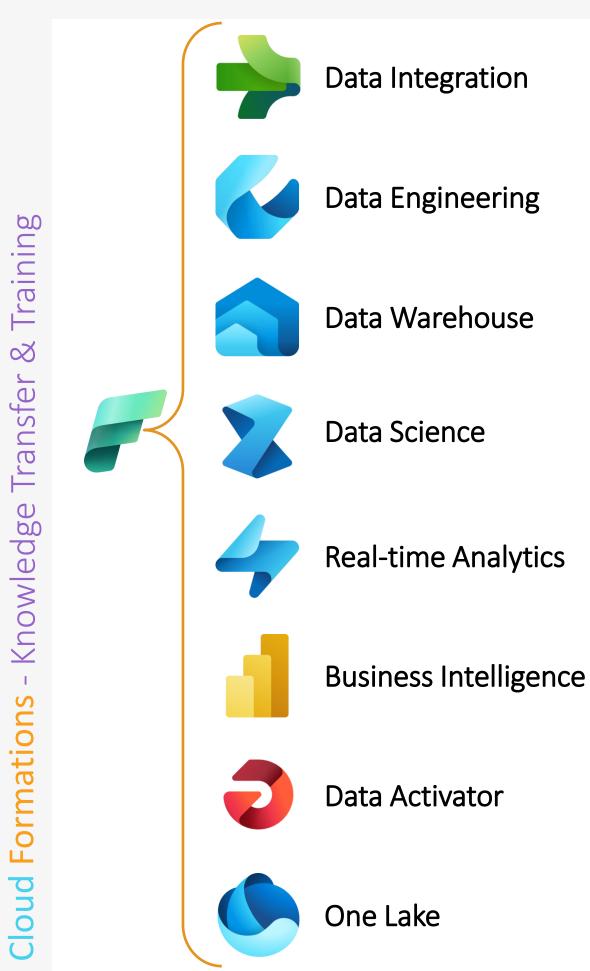


Simplifying Compute Consumption & Running Costs 1.



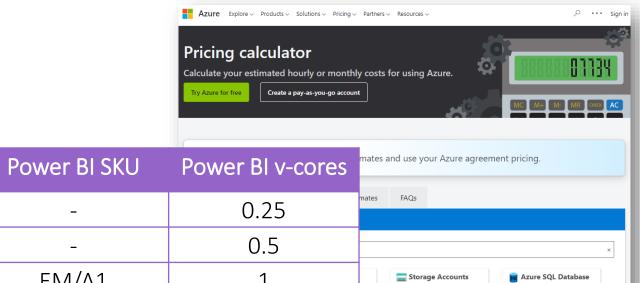
Q: How Can Microsoft Fabric Have an Impact on Your **Business**?

1. Simplifying Compute Consumption & Running Costs



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	F256	256
	F512	512
	F1024	1024
	F2048	2048
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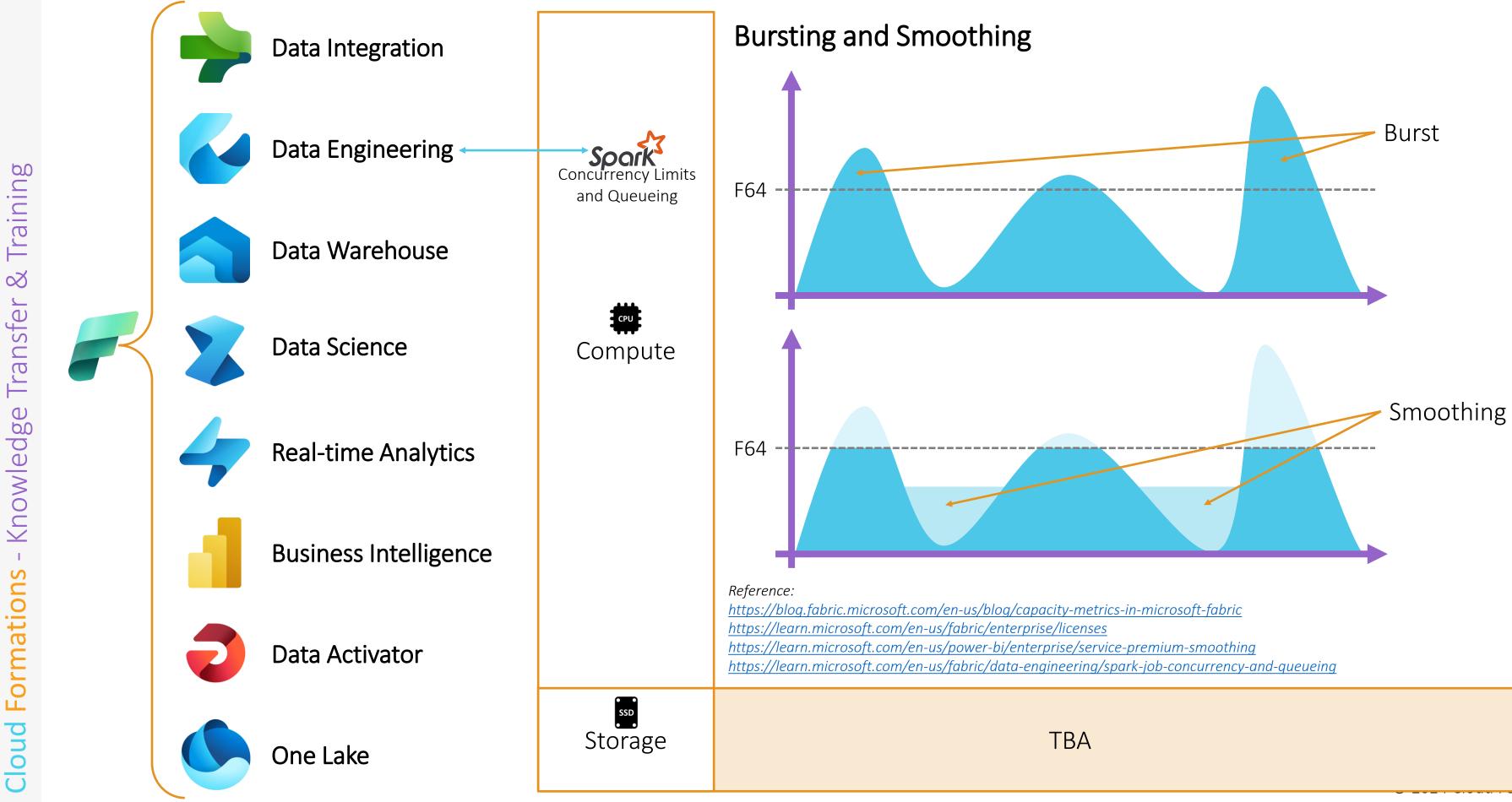
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1. Simplifying Compute Consumption & Running Costs





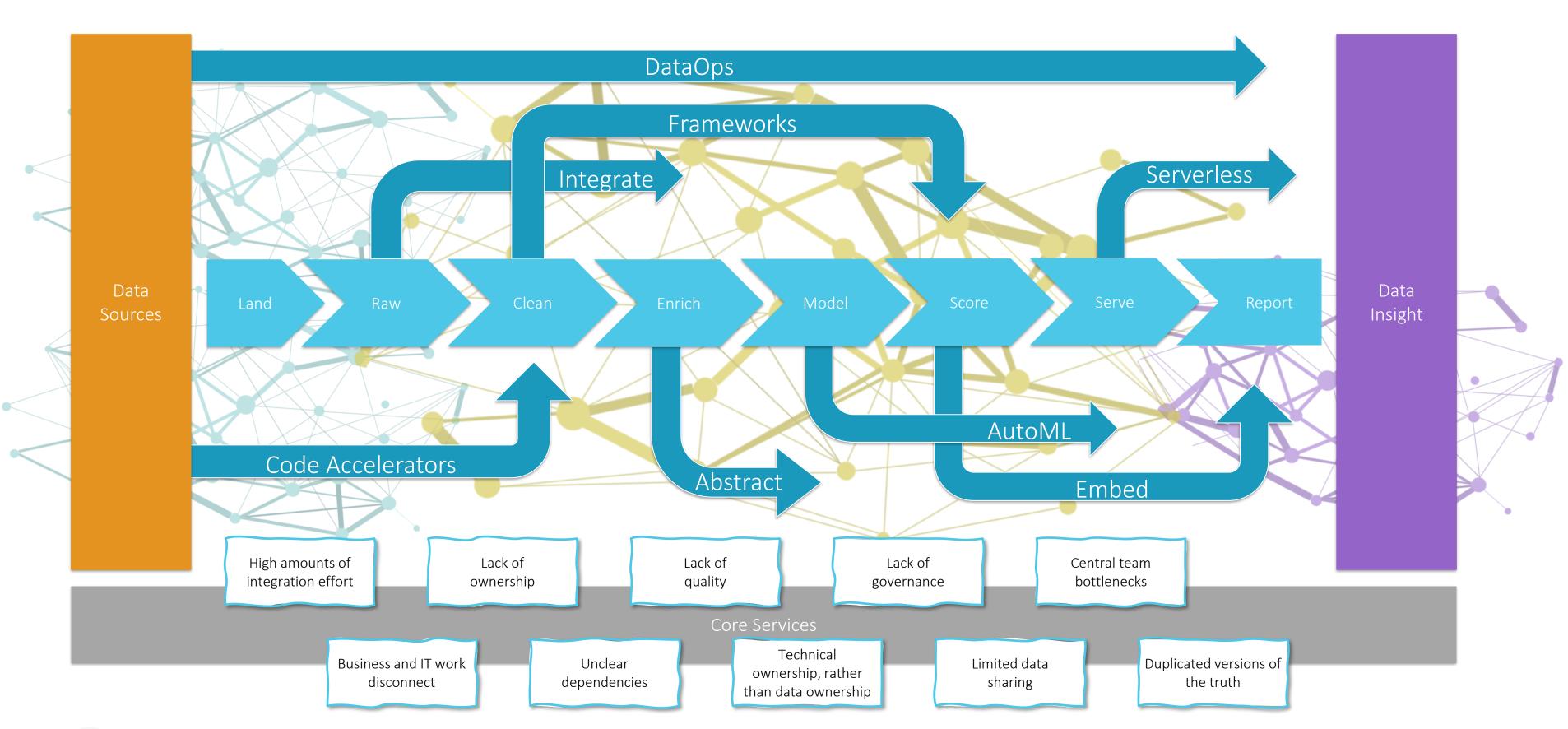
Simplifying Compute Consumption & Running Costs 1.

Accelerating Time to Insight 2.

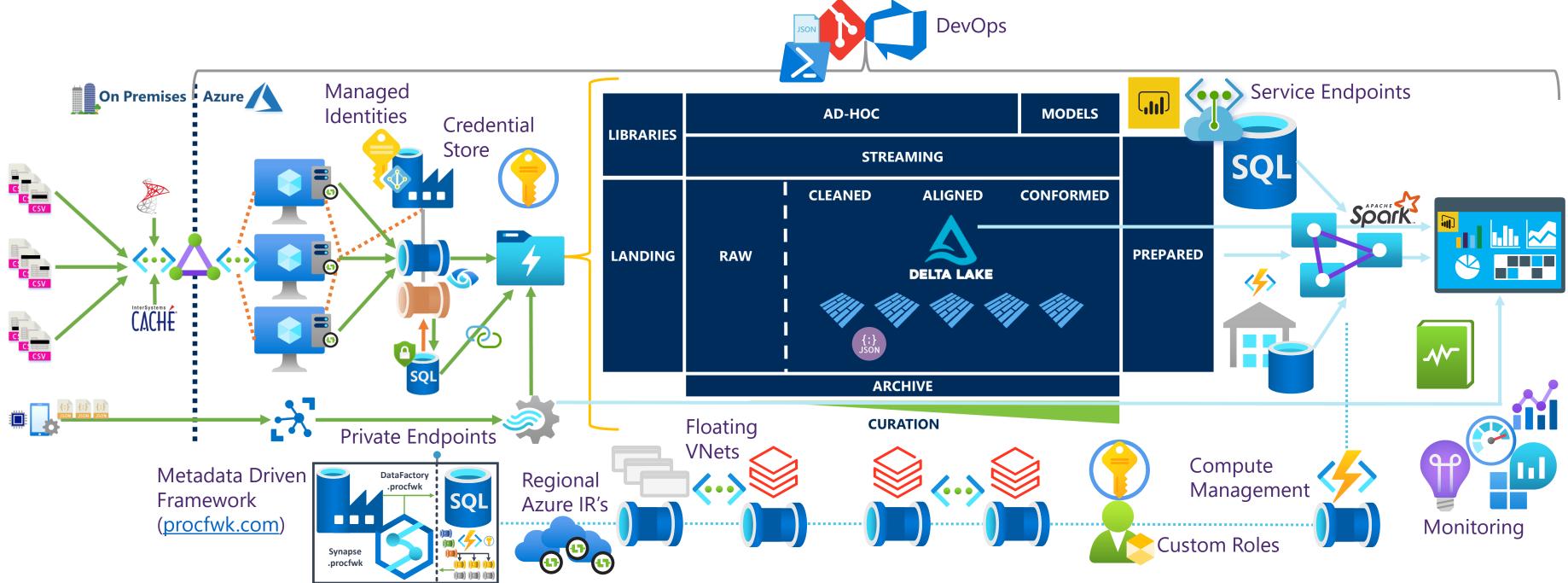


Q: How Can Microsoft Fabric Have an Impact on Your **Business**?





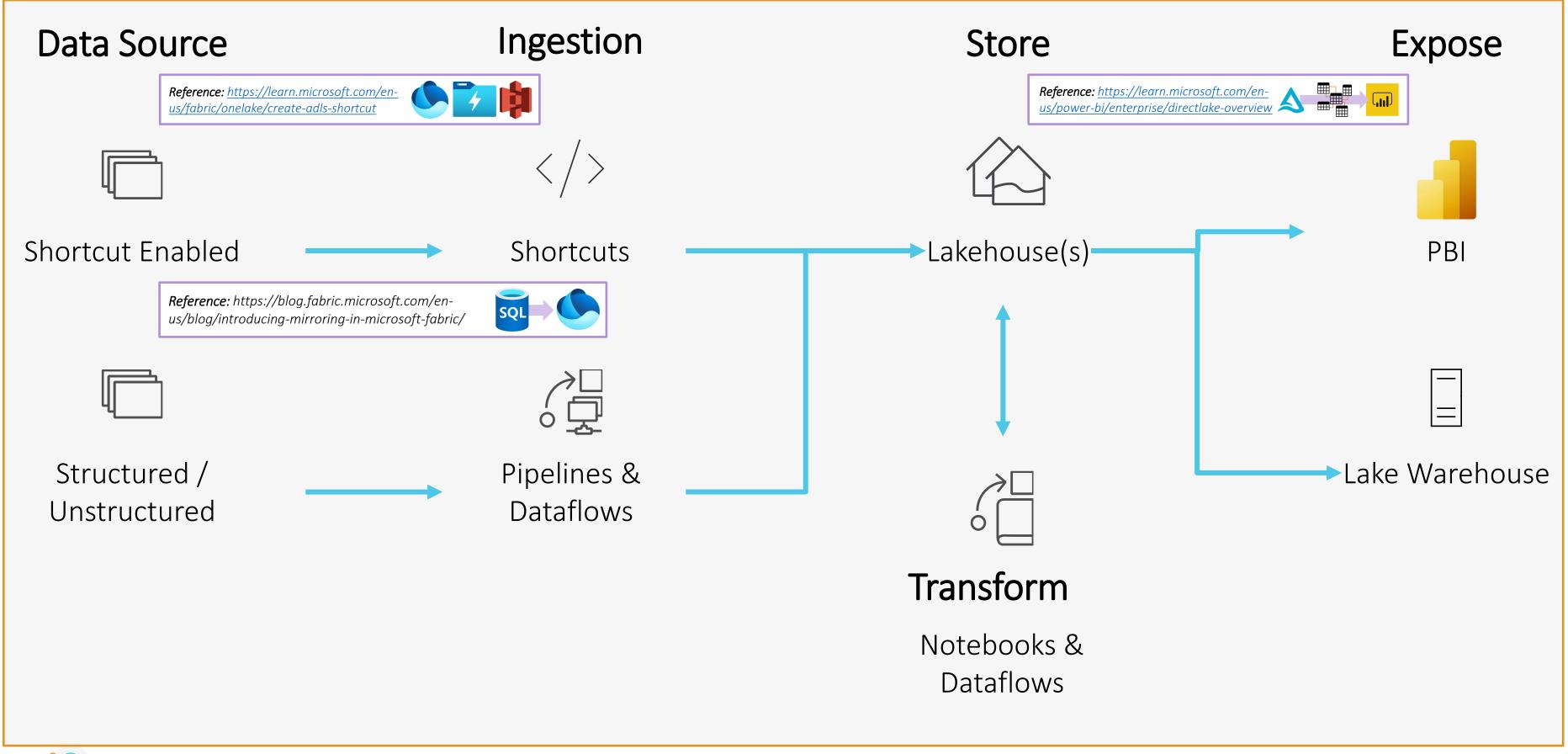






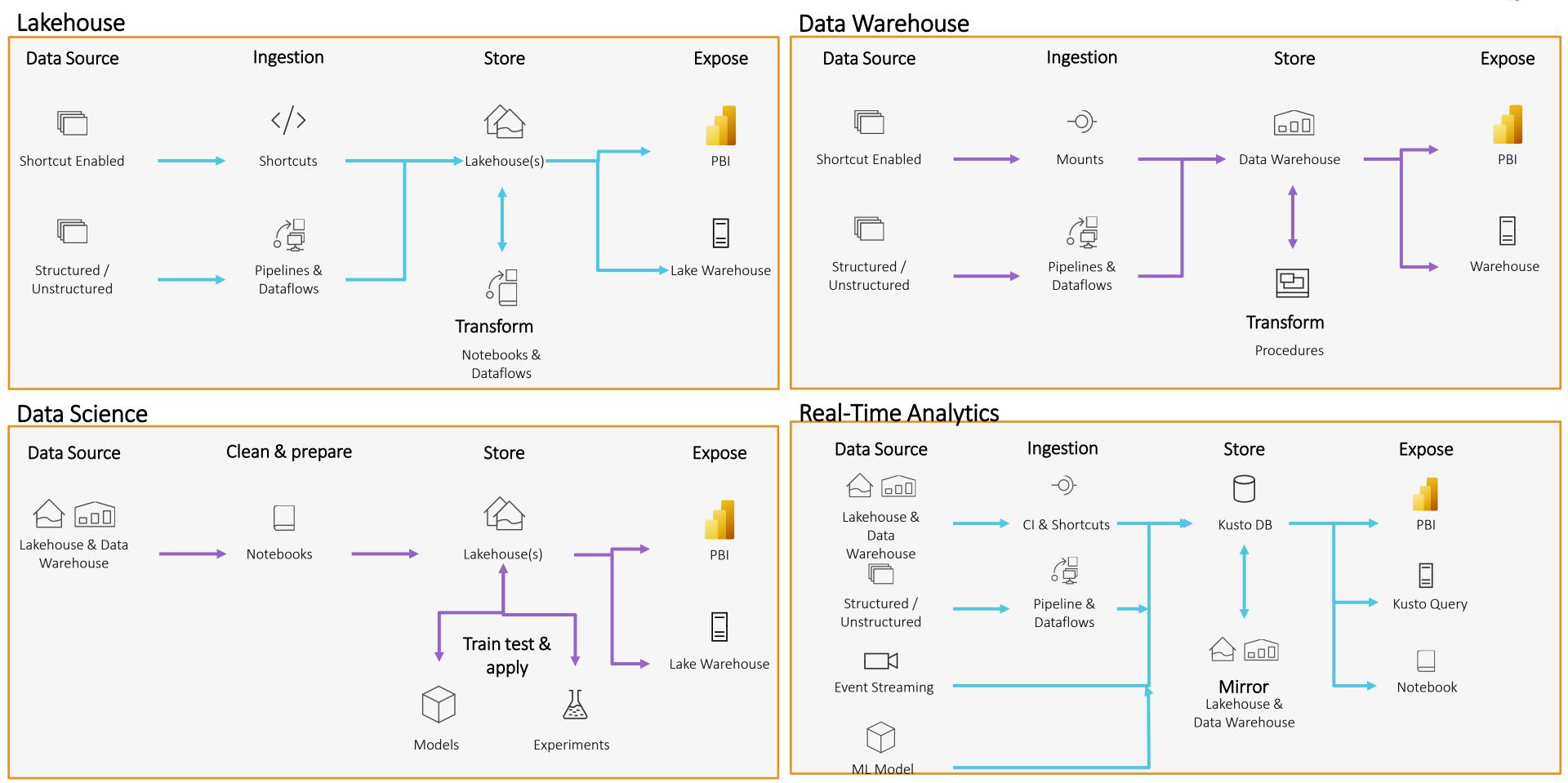


* Recorded 18th March 2023



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Microsoft Fabric – 'Happy Paths' (Patterns)



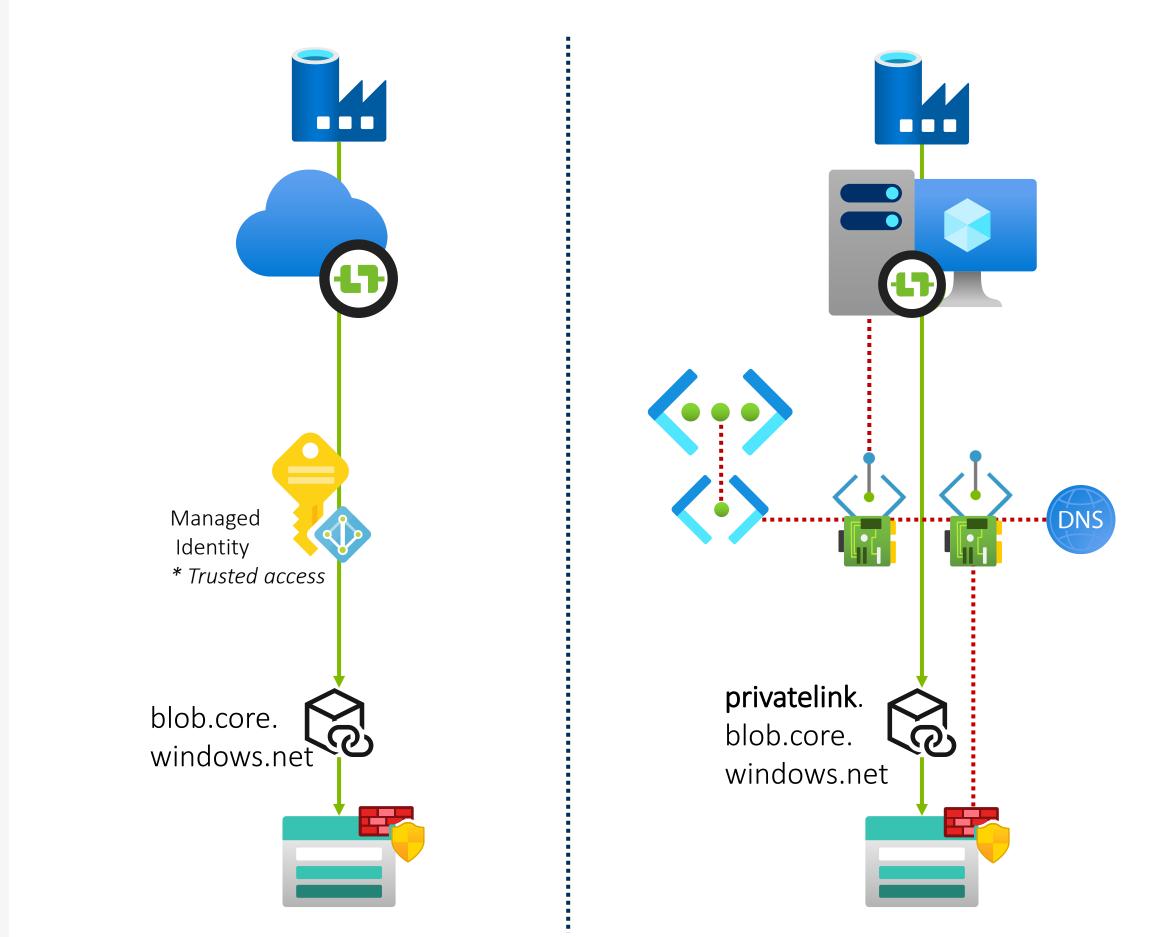


- Simplifying Compute Consumption & Running Costs 1.
- Accelerating Time to Insight 2.
- Unified Tooling Avoiding Complex Infrastructure 3.

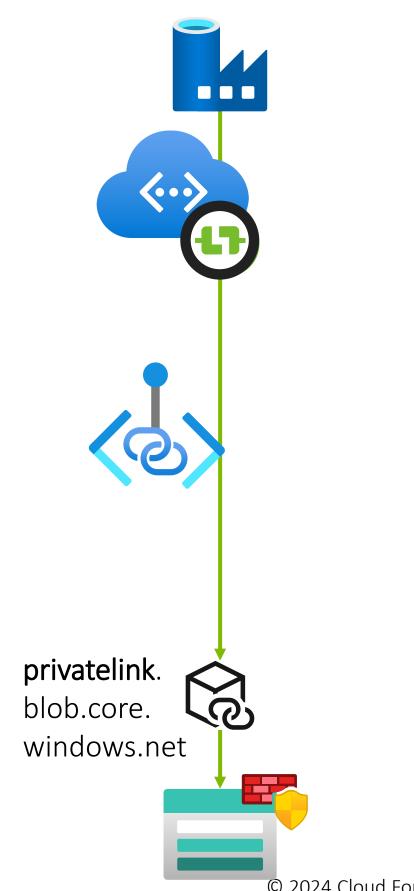
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Q: How Can Microsoft Fabric Have an Impact on Your **Business**?

3. Unified Tooling – Avoiding Complex Infrastructure

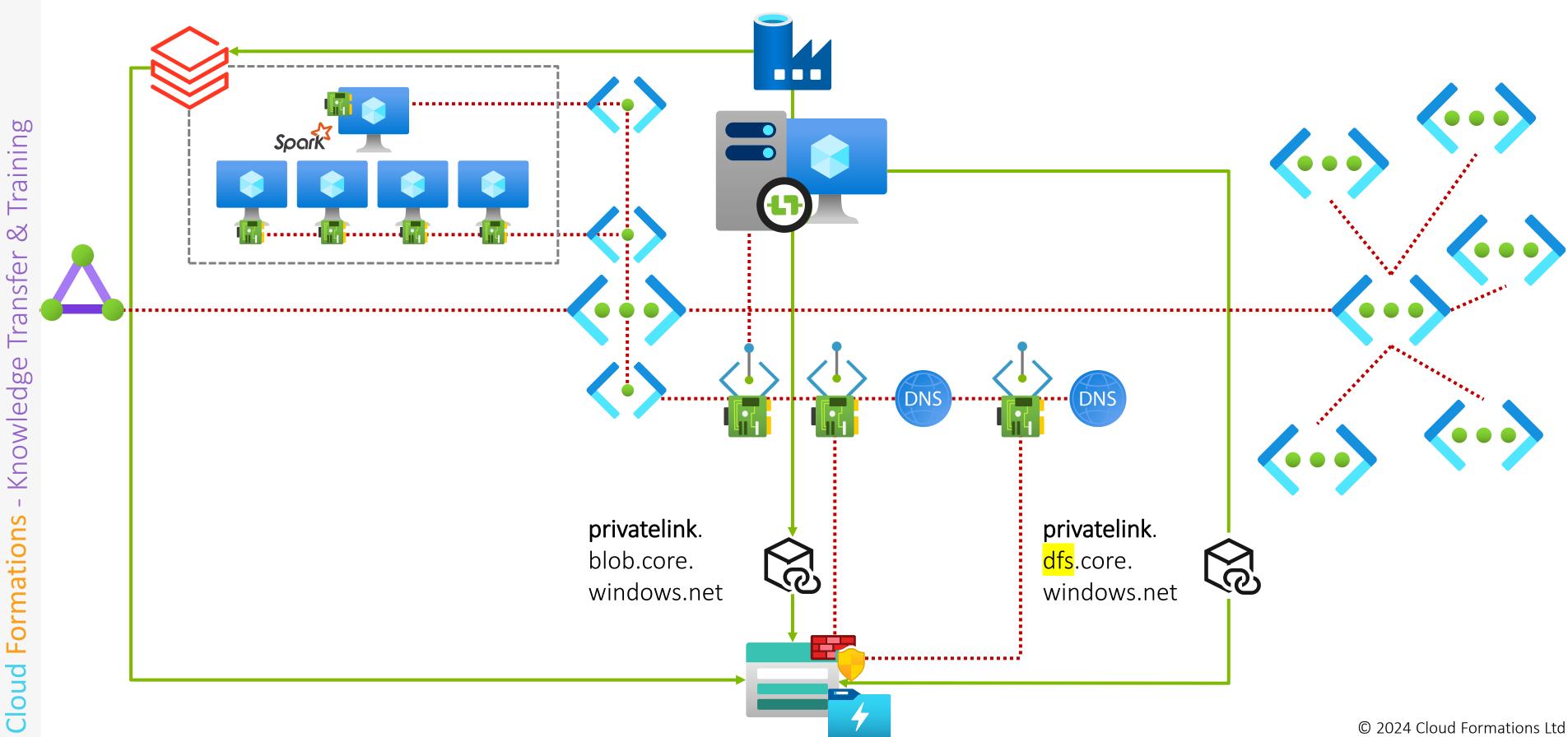






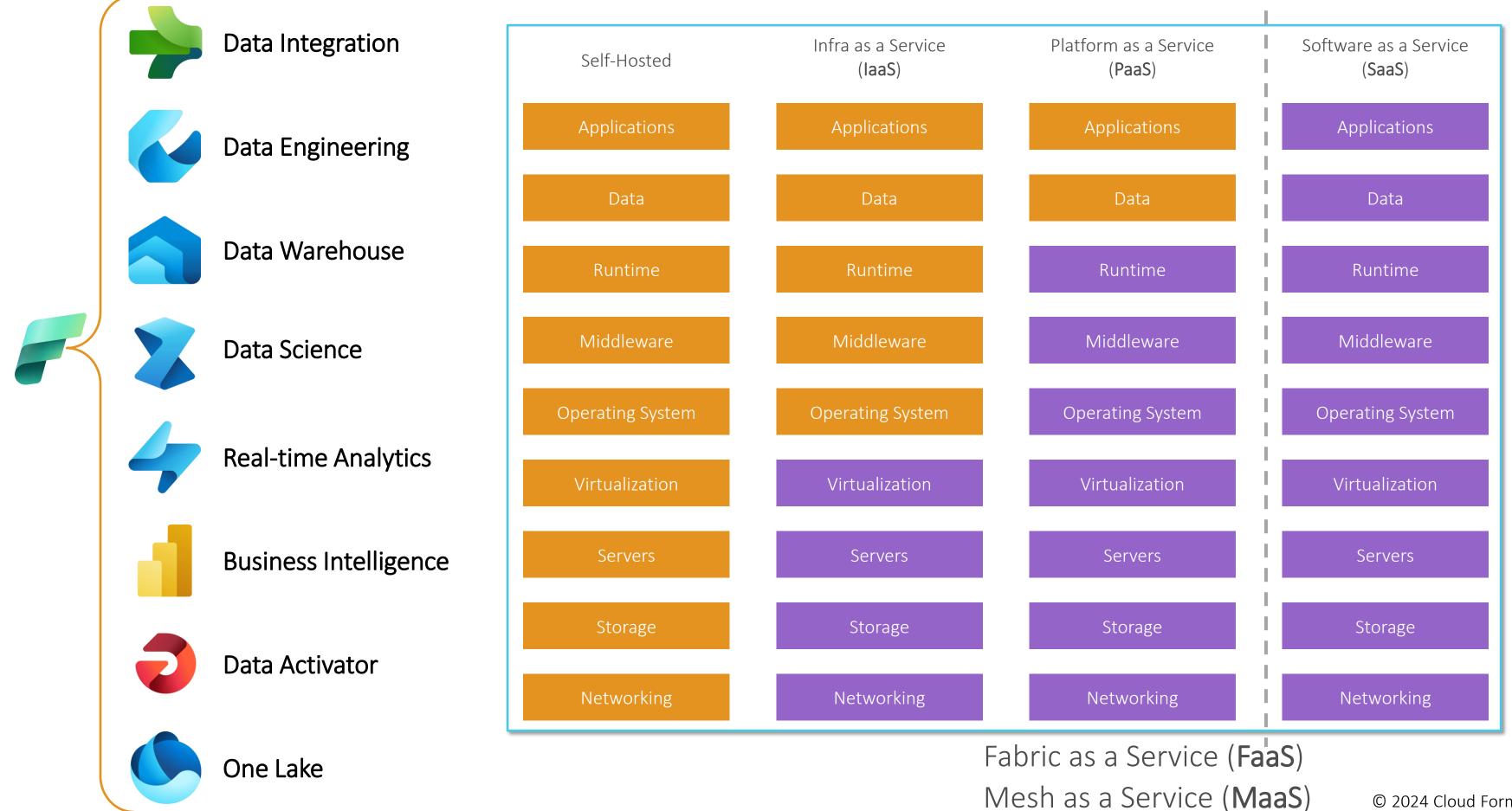
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3. Unified Tooling – Avoiding Complex Infrastructure





3. Unified Tooling – Avoiding Complex Infrastructure





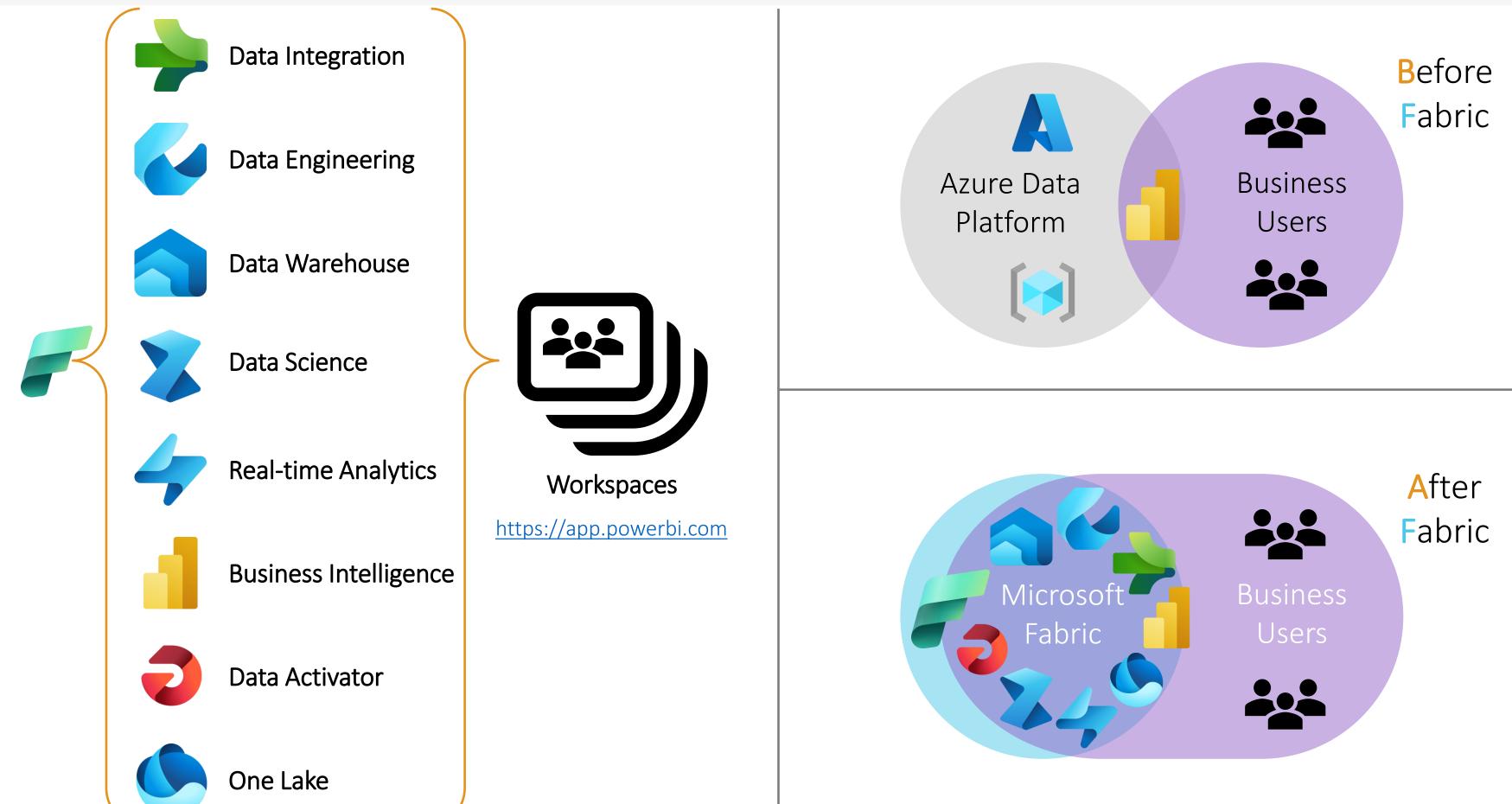
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- Simplifying Compute Consumption & Running Costs 1.
- Accelerating Time to Insight 2.
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- Empowering Business Users 4.

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Q: How Can Microsoft Fabric Have an Impact on Your **Business**?

4. Empowering Business Users





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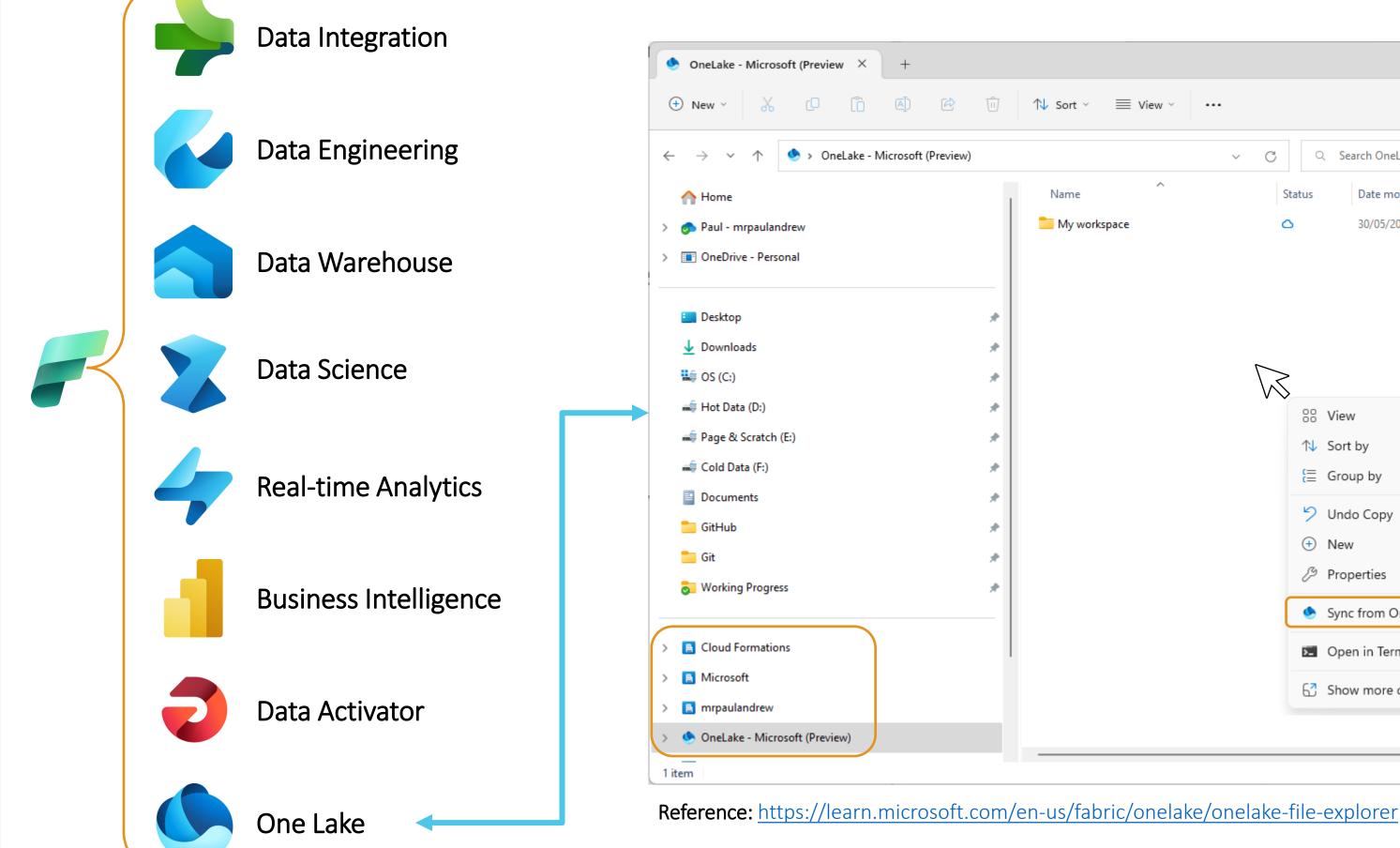
4. Empowering Business Users

Training

Knowledge Transfer &

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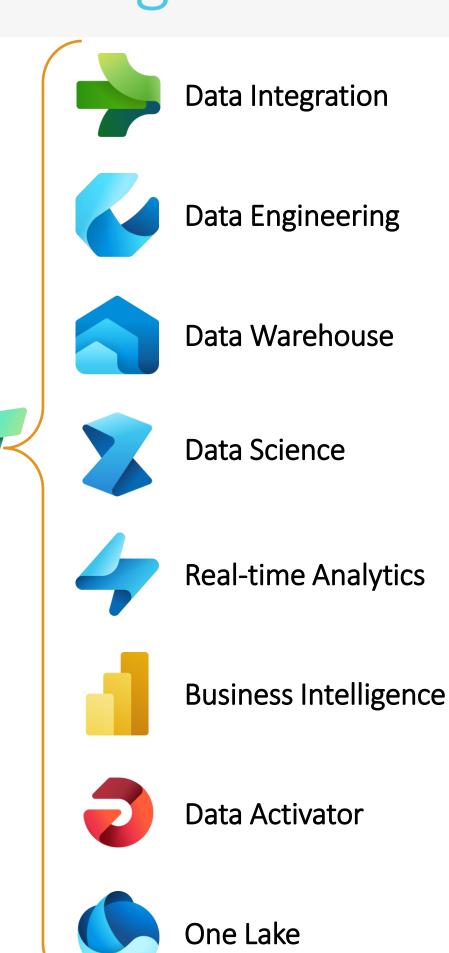
- Simplifying Compute Consumption & Running Costs 1.
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- Empowering Business Users 4.
- 5. Driving Innovation

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U: How Can Microsoft Fabric Have an Impact on Your **Business**?

5. Driving Innovation – Improving Productivity

Training ∞ Transfer Knowledge Formations oud



"Show me the top 10 most profitable products sold in the last 6 months by category and region."

"Give me a summary of my meetings today."

"Draft an announcement ready for my next event."

"Write a SQL script to aggregate my sales data."

"Create a DAX measure for the average numbers of customers that subscribe to my website per week."

"Build a dashboard for all sales this month with visuals showing a breakdown by product owner."



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Article Talk

From Wikipedia, the free encyclopedia

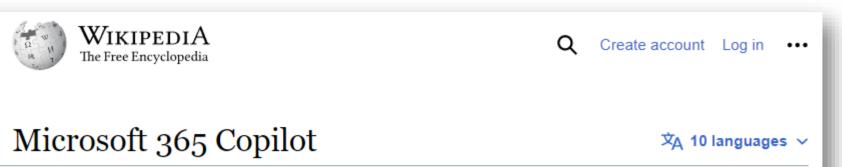
Microsoft 365 Copilot is an artificial intelligence assistant feature for Microsoft 365 Copilot Microsoft 365 applications and services.^{[1][2][3]} Announced by Microsoft on March 16, 2023, the tool builds on OpenAl's advanced GPT-4 large language models (LLMs) and incorporates Microsoft Graph in order to convert user text input into content in Microsoft 365 apps, such as Word, Excel, PowerPoint, Outlook, and Teams.^[1] Copilot is being marketed with a focus on productivity for its users, with 20 initial testers as of March 16, 2023.^{[1][4]} In May 2023, Microsoft expanded access to 600 customers willing to pay for early access, Developer(s) Microsoft Chatbot Туре with the office apps^[5] and services getting new Copilot features.^[6] Although License Proprietary there are public concerns about the chatbot, including hallucinations and racial or gender bias, experts believe that Copilot may change the way that Microsoft users work and collaborate.^[7] Microsoft announced during the Build 2023 conference that it is adding the AI assistant Copilot to Windows 11. The Windows Copilot service is directly integrated with Windows 11 and users can access it through the taskbar.[8]

power-bi/

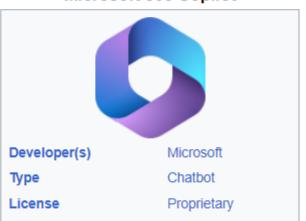
https://en.wikipedia.org/wiki/Microsoft 365 Copilot

https://blogs.microsoft.com/blog/2023/03/16/introducing-microsoft-365-copilot-your-copilot-for-work/





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Reference: https://powerbi.microsoft.com/en-us/blog/introducing-microsoft-fabric-and-copilot-in-microsoft-



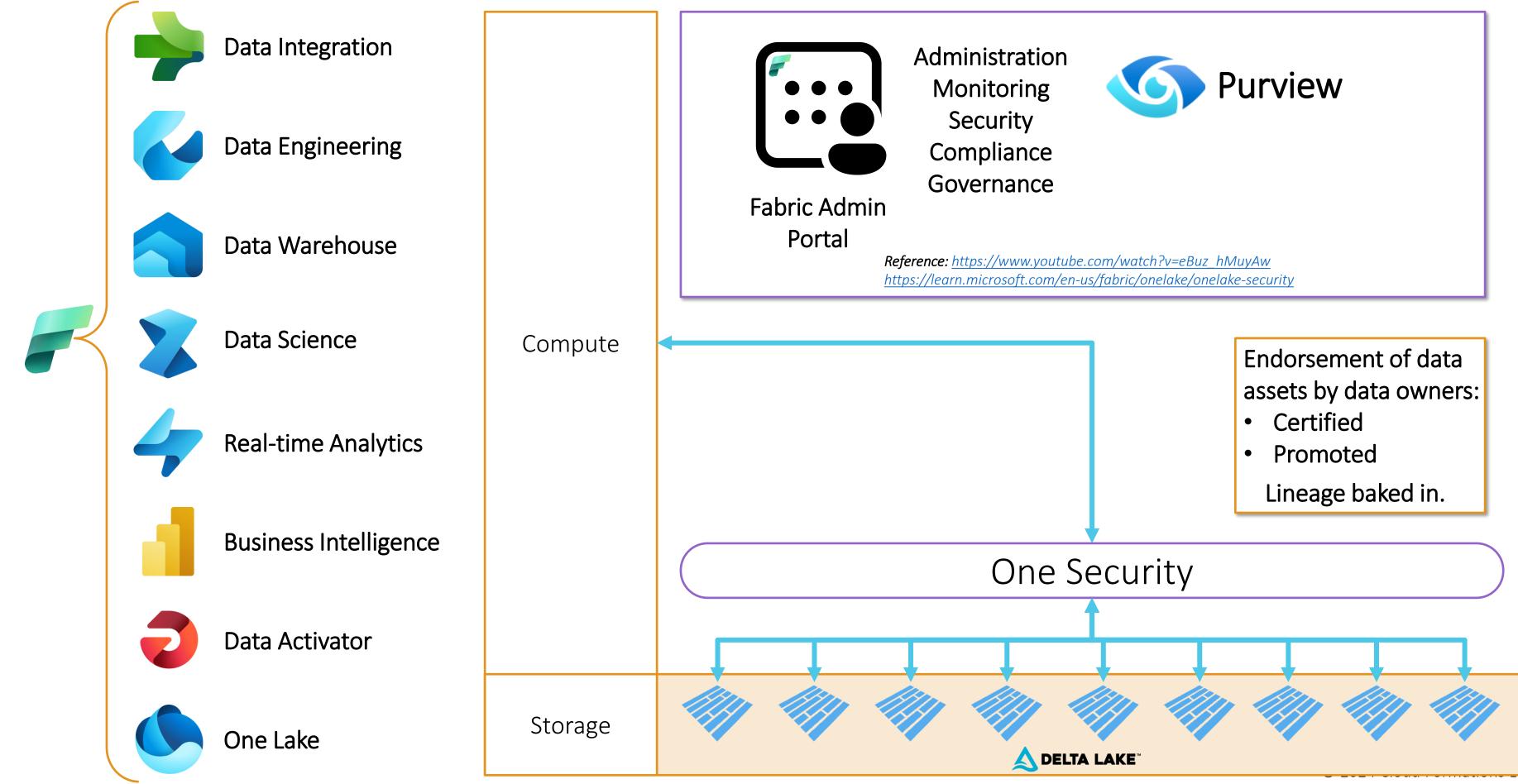
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- 2. Accelerating Time to Insight
- Unified Tooling Avoiding Complex Infrastructure 3.
- Empowering Business Users 4.
- 5. Driving Innovation
- 6. Improving Governance

U: How Can Microsoft Fabric Have an Impact on Your **Business**?

6. Improving Governance – One Security & Admin

Knowledge Transfer & Training

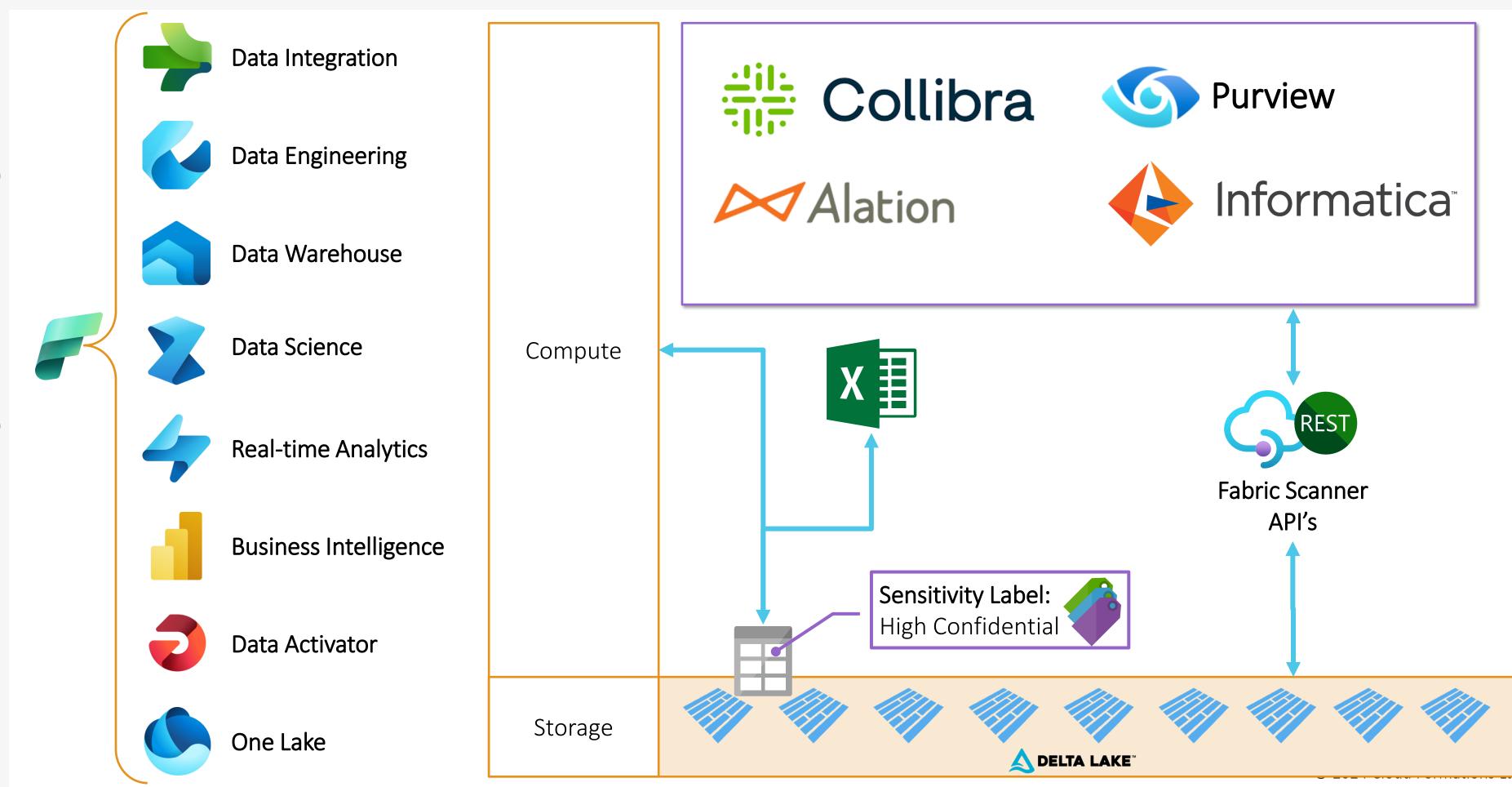
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6. Improving Governance – Sensitivity & Tooling



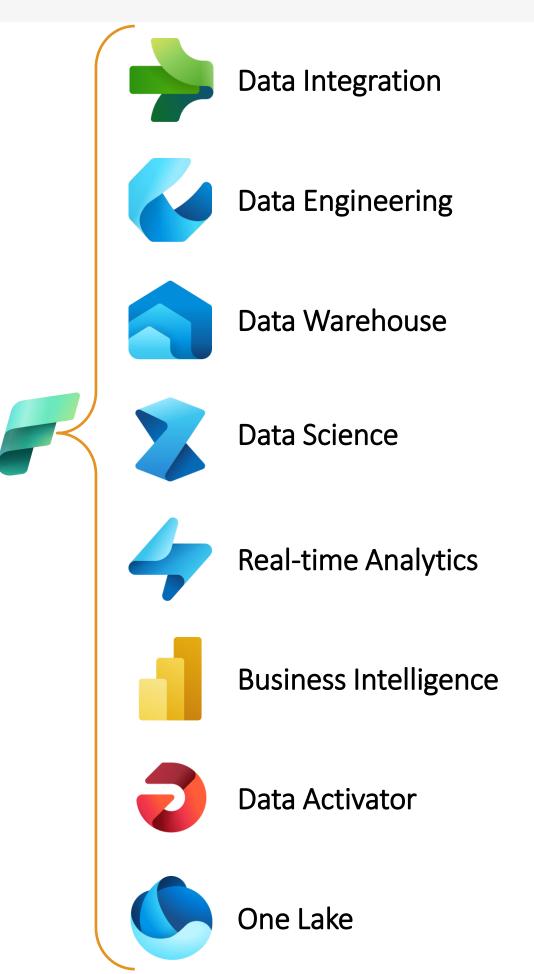




6. Improving Governance – Domains

Compute

Storage



Knowledge Transfer & Training

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.... To meet this challenge, organizations are shifting from traditional IT centric data architectures, where the data is governed and managed centrally, to more federated models organized according to business needs. This federated data architecture is called data mesh. A data mesh is a decentralized data architecture that organizes data by specific business domains, such as marketing, sales, human resources, etc.

What are Fabric domains?

In Fabric, a domain is a way of logically grouping together all the data in an organization that is relevant to a particular area or field.

Reference: <u>https://learn.microsoft.com/en-us/fabric/governance/domains</u>

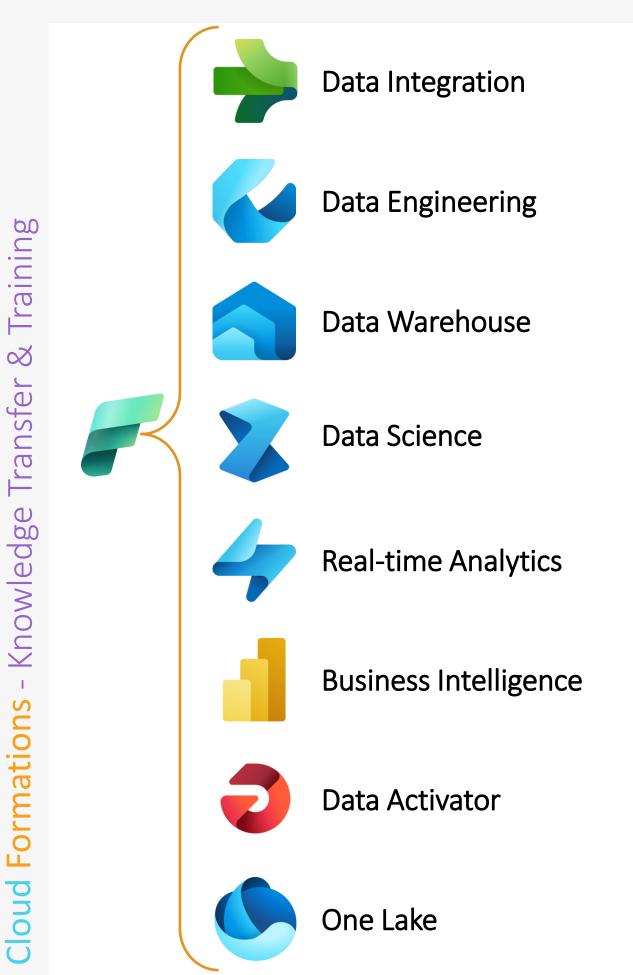




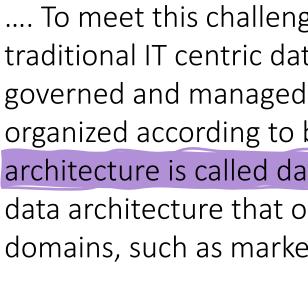
6. Improving Governance – Domains

Compute

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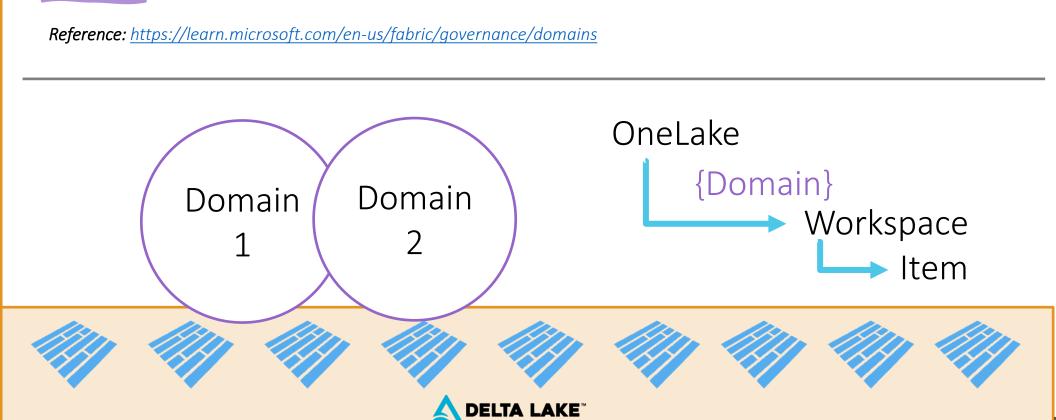


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Q: How Can Microsoft Fabric Have an Impact on Your **Business?**

In Summary Full Source Control. But: Private Network Connectivity. Remote Source Data Ingestion. Key Vault Integration. One Security. Comprehensive Monitoring.



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build.microsoft.com

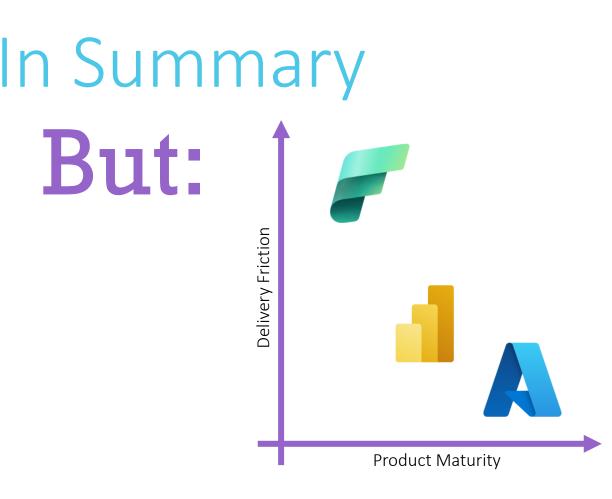
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O: How Can Microsoft Fabric Have an Impact on Your **Business**?





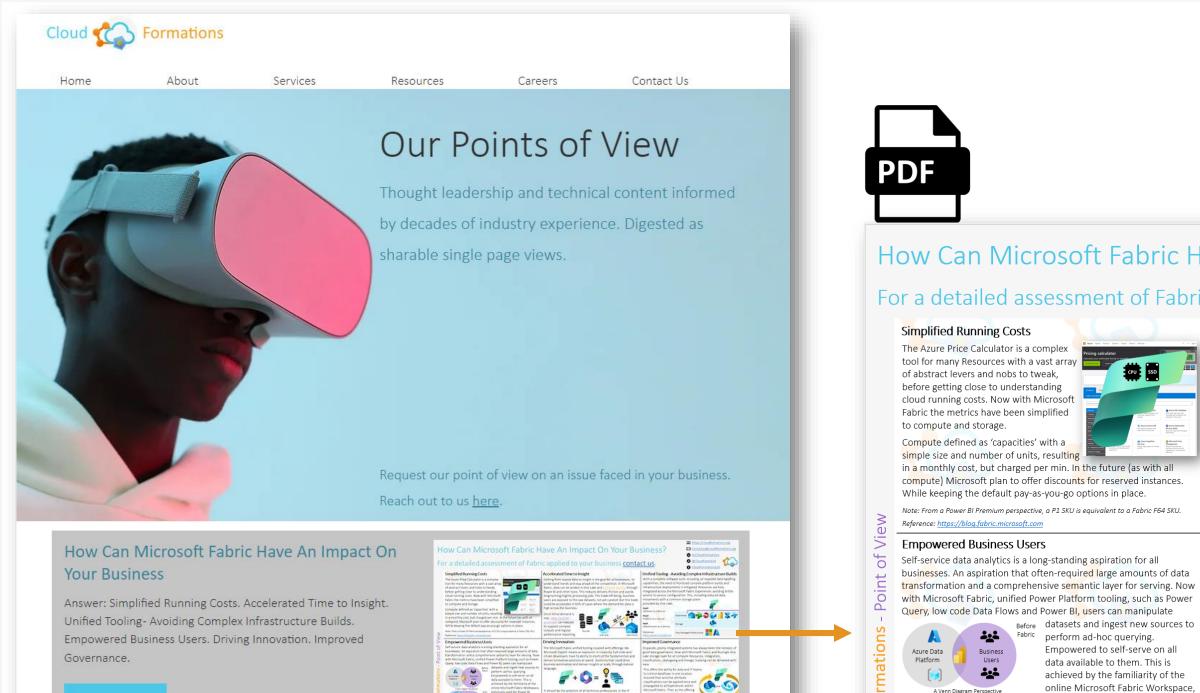


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- Driving Innovation 5.
- 6. Improving Governance

Q: How Can Microsoft Fabric Have an Impact on Your **Business**?



CloudFormations.org/Points-Of-View



An Evolution of Cloud Technology to Microsoft Fabric

Having an understanding of how Microsoft has evolved its data product offerings over the last decade can greatly inform the technical direction and implementation of these resources for your business.





How Can Microsoft Fabric Have An Impact On Your Business?

For a detailed assessment of Fabric applied to your business contact us.

Accelerated Time to Insight

Getting from source data to insight is the goal for all businesses, to understand trends and stay ahead of the competition. In Microsoft Fabric, data can be landed in One Lake and accessed directly through Power BI and other tools. This reduces delivery friction and avoids ong running/nightly processing jobs. The trade-off being, business users are exposed to the raw datasets, not yet curated. But this trade could be acceptable in 60% of cases where the demand for data is high across the business.

Onc<mark>e ini</mark>tial demand is met, data curation processes can execute to support complex outputs and regular

previously used for Power BI, meaning business users can explore all capabilities offered,

while working within the guard rails of the Workspace Experiences.

performance reporting. Driving Innovation

The Microsoft Fabric unified tooling coupled with offerings like Microsoft Copilot means an explosion in creativity. Full code and citizen developers have to ability to shortcut the fundamentals and deliver innovative solutions at speed. Solutions that could drive busine<mark>ss automation and deliver insights at scale, through natural</mark> language.



t should be the ambition of all technical professionals in the IT industry to automate themselves out of a role. Not to mean the role is ob<mark>sole</mark>te. But, to mean an evolution in ta<mark>sks</mark> that free up time for professionals to focus on the next wave of complex projects.

Reference: https://blogs.microsoft.com

https://cloudformations.org

☑ contactus@cloudformations.org

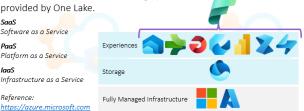
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Unified Tooling - Avoiding Complex Infrastructure Builds

With a complete software suite including, all required data handling capabilities, the need to frontload complex platform builds and infrastructure deployments is mitigated. Resources are fully integrated across the Microsoft Fabric Experiences avoiding brittle service to service configuration. This, including reduced data movements with a common storage plane



Improved Governance

Disparate, poorly integrated systems has always been the nemesis of good data governance. Now with Microsoft Fabric and its single One Lake storage layer for all compute Resources, integration, classification, cataloguing and lineage, tracking can be delivered with ease

This offers the ability for data and IT teams to control dataflows in one location. Assured that sensitive attribute classifications can be applied once and propagated to all Experiences within Microsoft Fabric. Then as the offering matures the expectation is that a comprehensive security model will enforce such data handling for users end-to-end.



eference: <u>htt<mark>ps://learn.microsoft.com</mark></u>

Getting Started With Microsoft Fabric: What/Why/How



Blog & Register

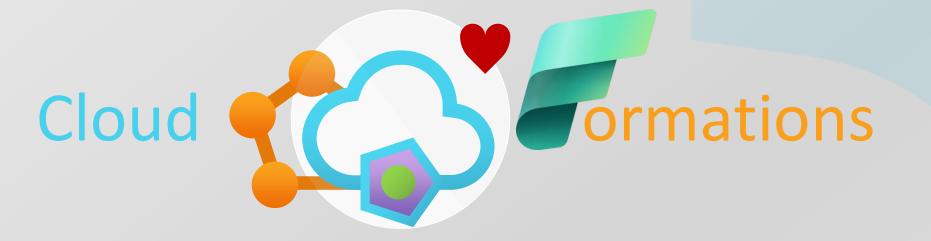


Thursday 9th May 2024 2pm – 3pm BST



Real world experience and advice on the latest technologies from industry leading data professionals.

Join us online, free to attend.





Paul Andrew Technical Architect



Daniel Addy **Enterprise Architect**

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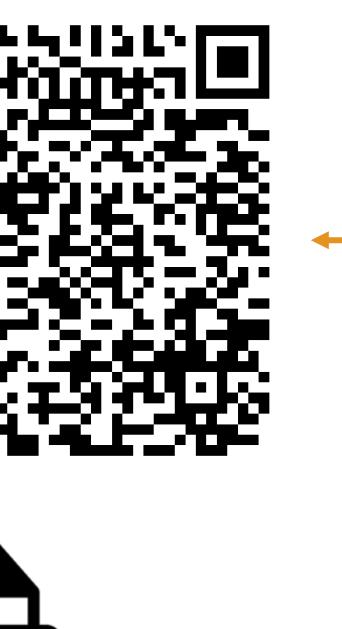


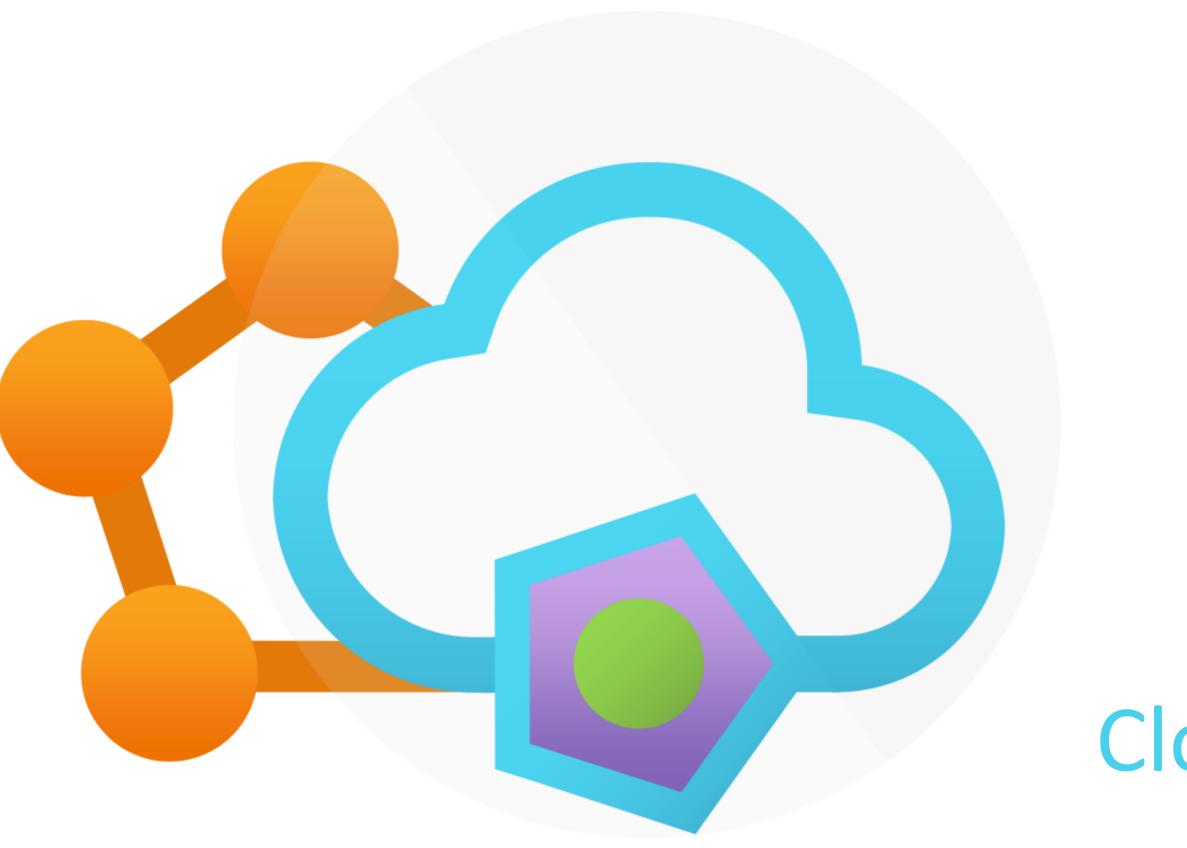
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Speaker:	Paul Andrew	Business?
Date:	13 July 2023	Paul Andrew Co-Founder Chief Technology Officer
Hosts:	Microsoft Fabric- UK User Group	Cloud Formations
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