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

Paul Andrew

Co-Founder | Chief Technology Officer



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Our Offerings

Supporting you on every level. Providing stakeholders with transparent reviews and feedback on planning, rollout and platform architecture.

Advisory



Strategy

Ensuring business value in everything, motivated by use cases, people and process. Aligned to the latest industry standards and concepts. Partnering for the long term. From development to operations, monitoring and alerting. We'll support your business-critical platforms.



Design

Scalable platform design using cloud native technology, reducing time to insight for batch, stream and event driven workloads for fabric and mesh architectures.





Knowledge sharing from the experts. Ensuring skills remain relevant for emerging cloud technologies and techniques.

Training

Lifecycle Support



Delivery

Highly experienced engineers to support your implementation, with a full complement of continuous deployment practices and reusable assets.

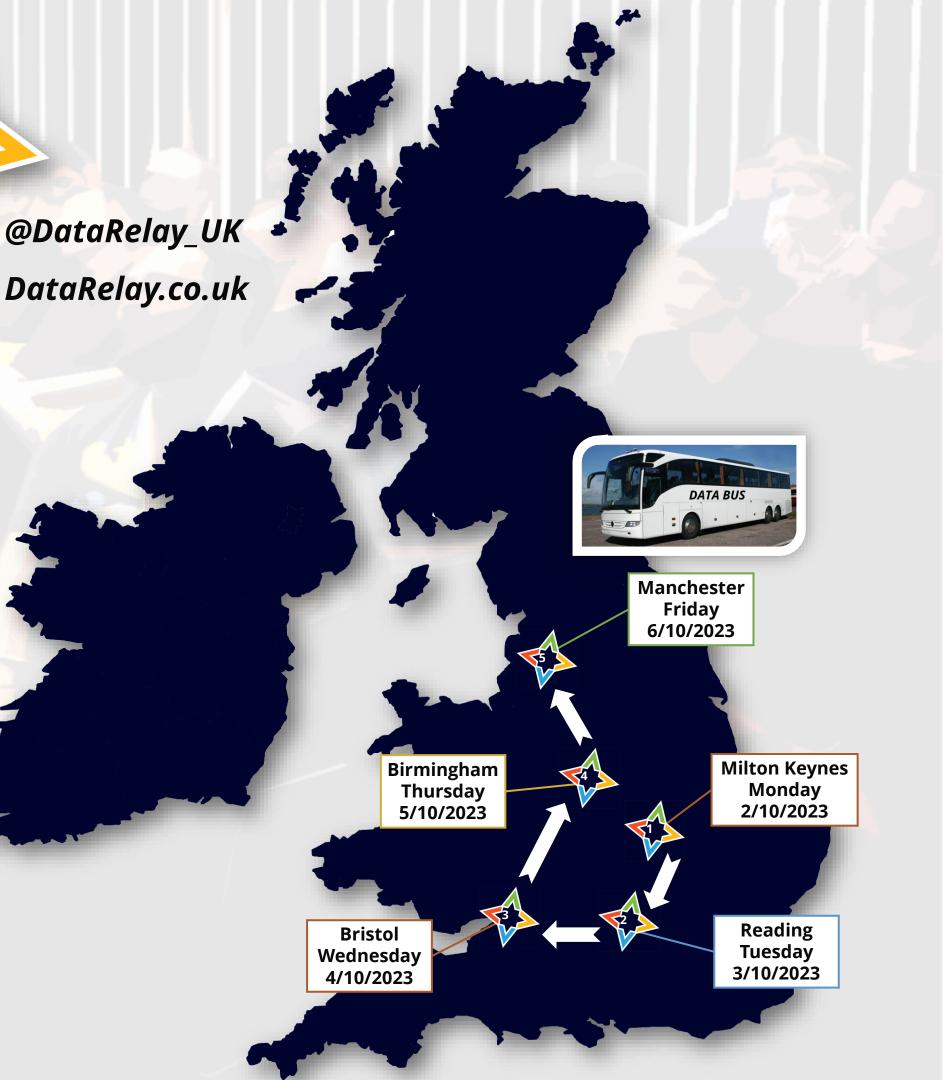
Monday 2nd to Friday 6th October 2023 DATA RELA

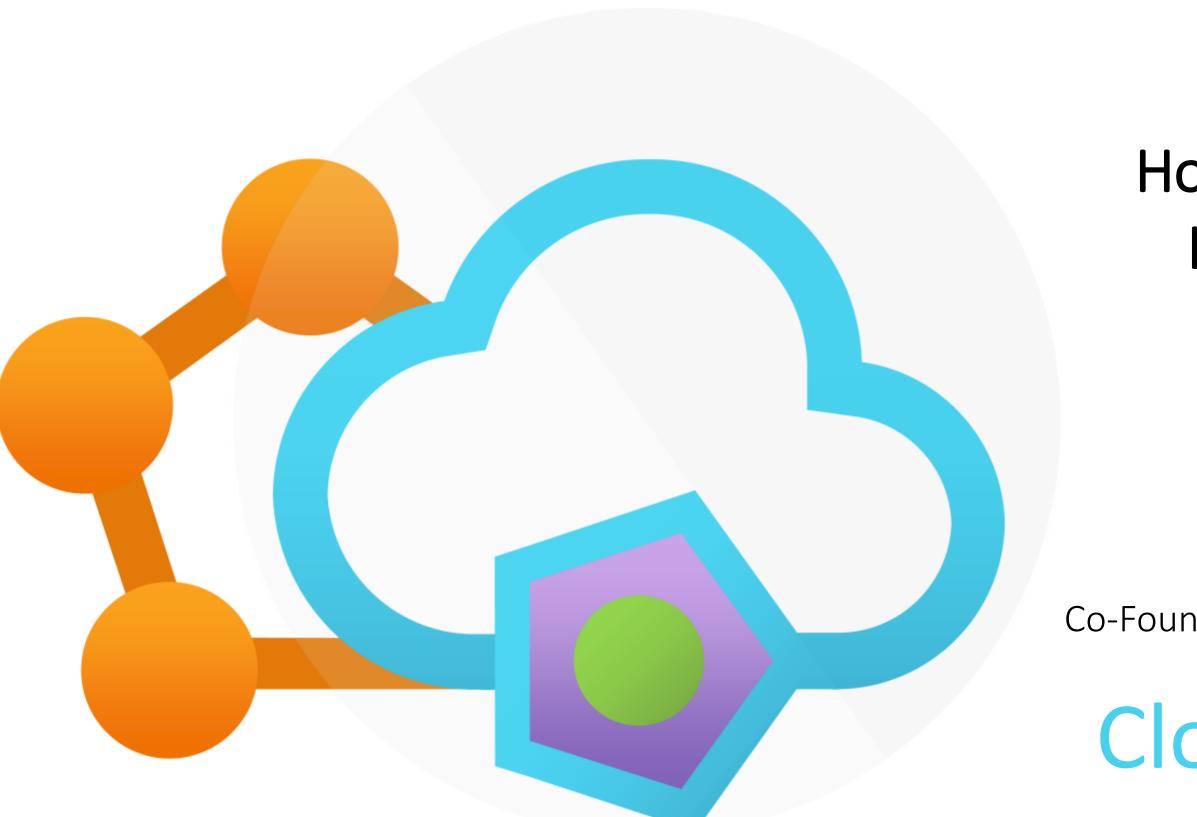
Bletchley Park, Reading, Bristol, Birmingham, Manchester

Registration OPEN



A <u>FREE</u> UK Wide Microsoft Data Platform Community Initiative







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Abstract

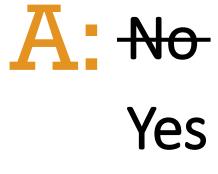
All this talk about Data-Ware-Lake-Delta-Beach-House-Lakes (or some combination of that) and Data, Yarn, Fabric integration, everything has got a bit... Meshy! Yes, my friends. The beat of the technology drum is certainly relentless. And with no limits cloud scale and huge innovations from the biggest 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

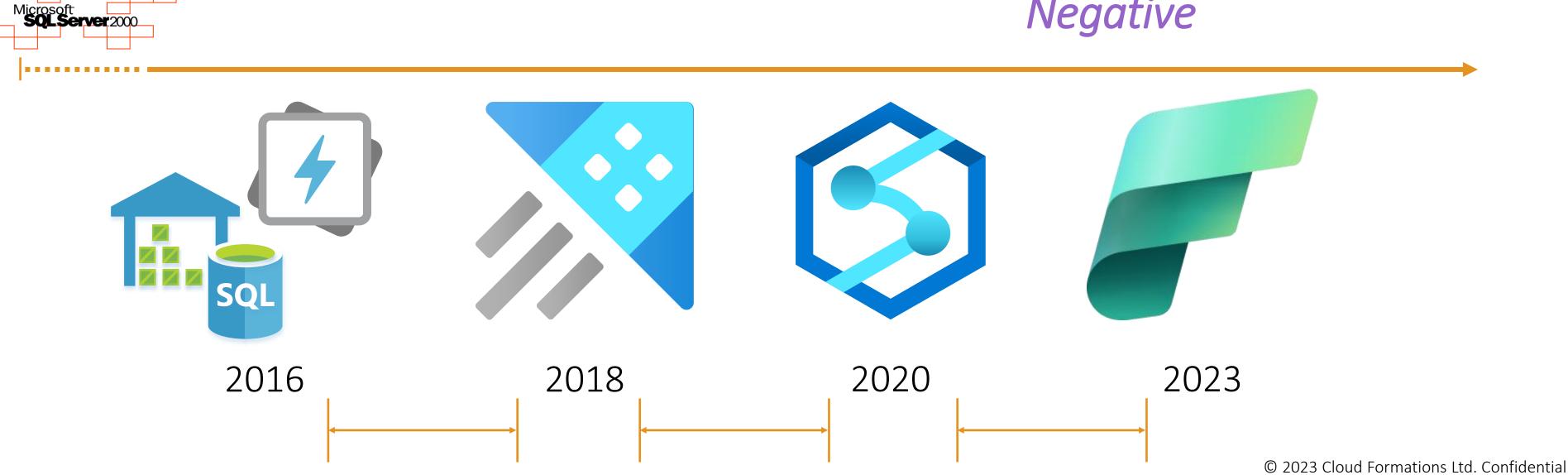






Will How Can Microsoft Fabric Have an Impact on Your *Positive or* Business? Negative

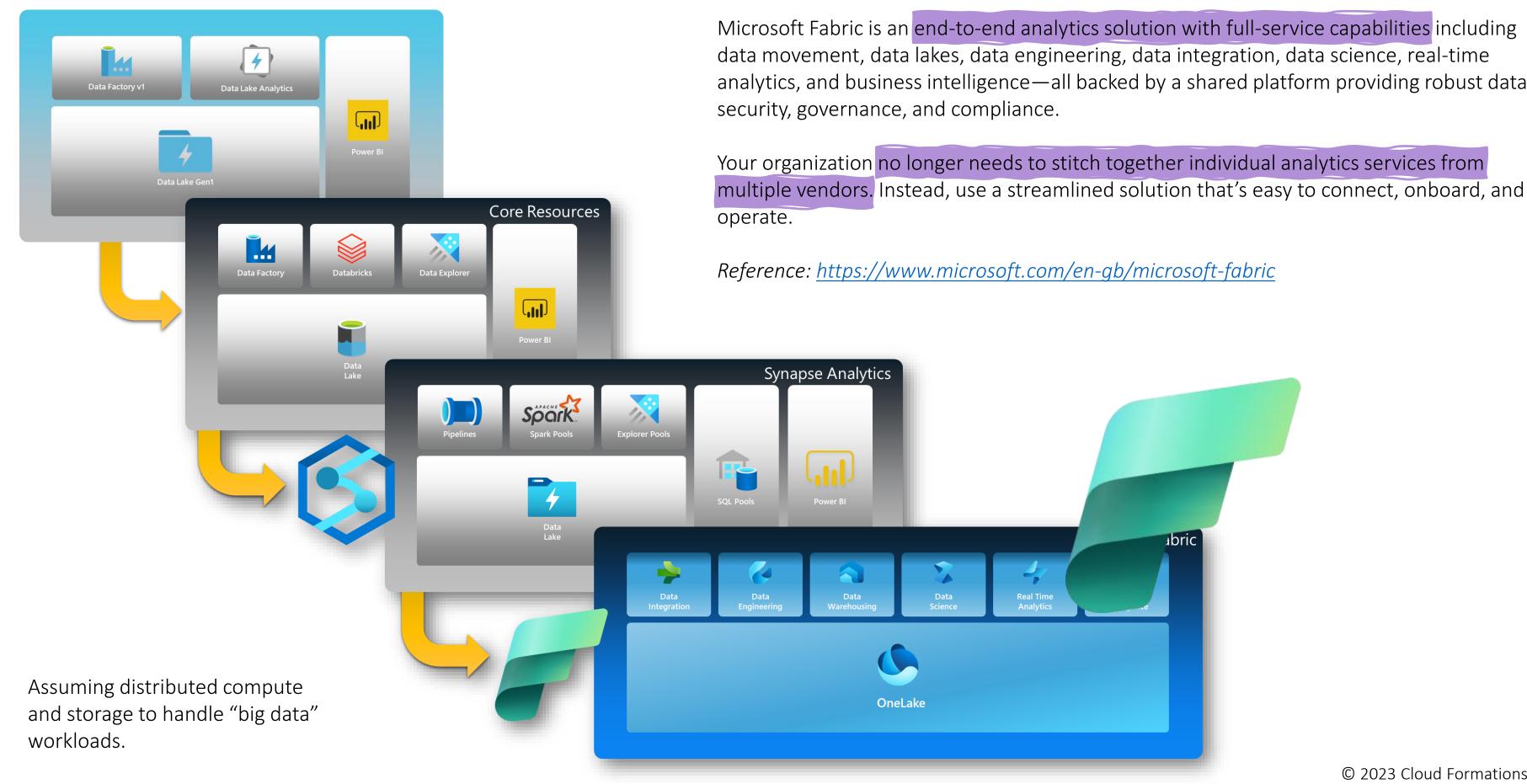






Will How Can Microsoft Fabric Have an Impact on Your *Positive or* Business? Negative

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?

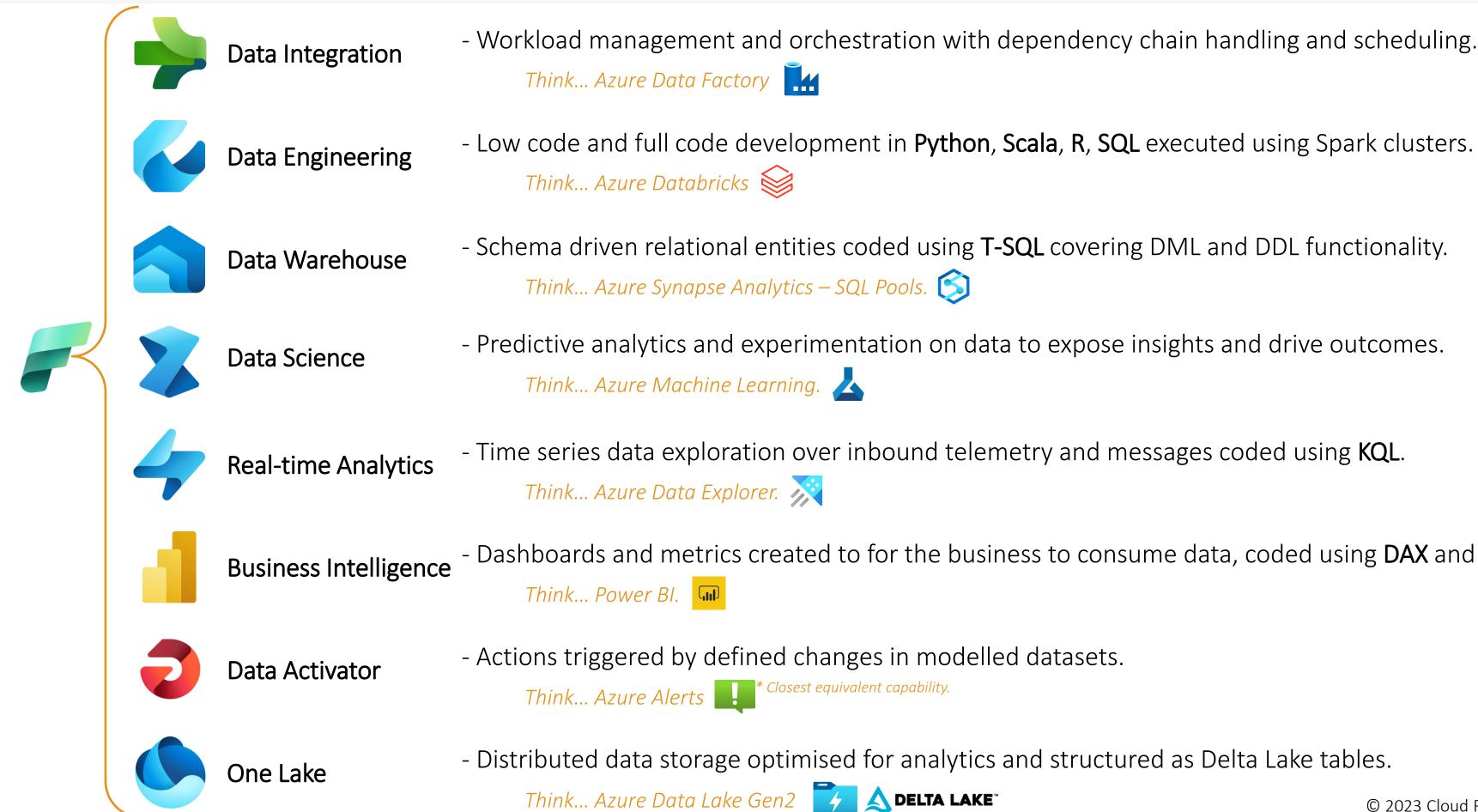
Knowledge Transfer & Training **Cloud Formations -**





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What is Microsoft Fabric? - Experiences vs Technical Capabilities



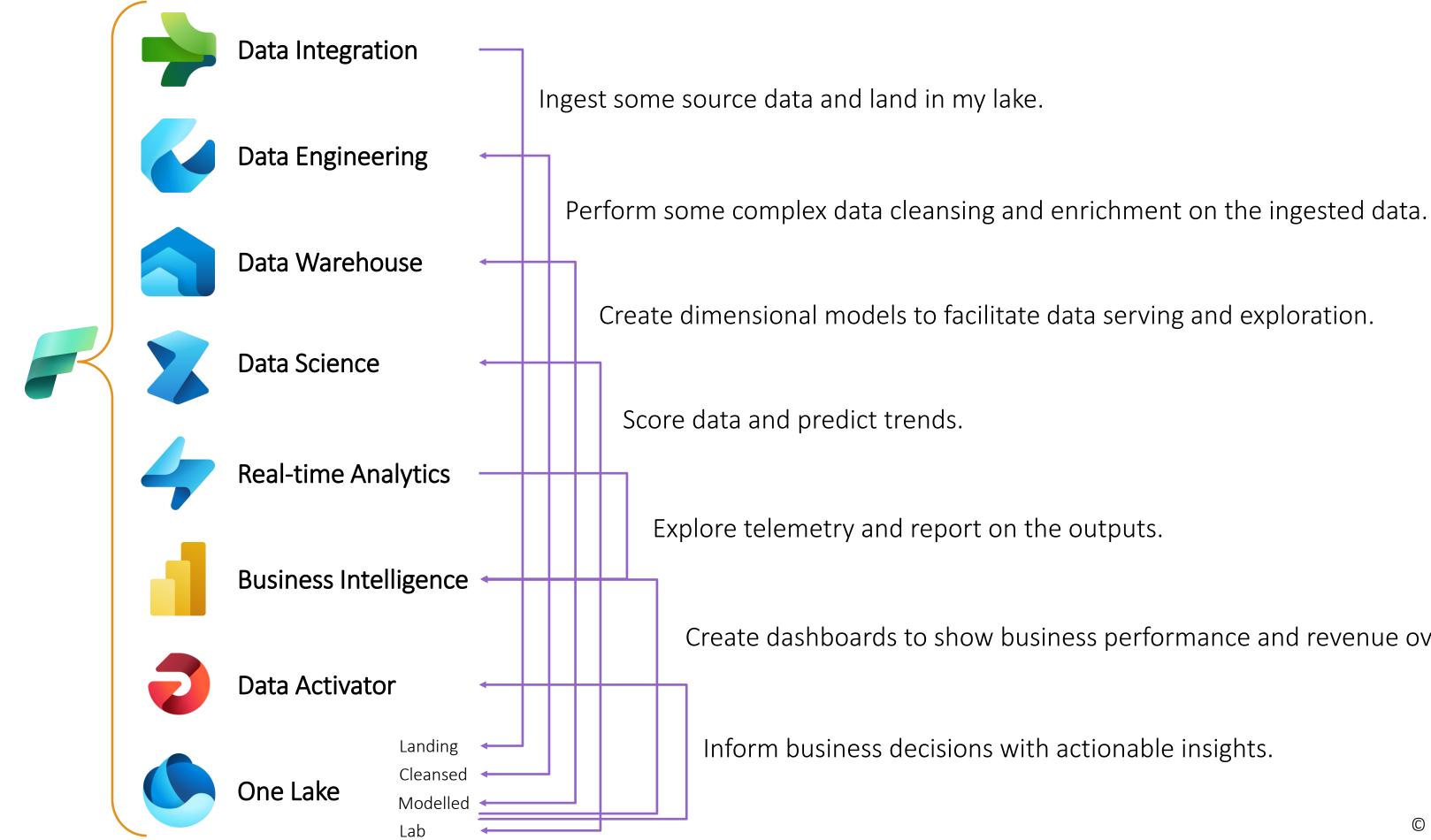
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- Dashboards and metrics created to for the business to consume data, coded using DAX and M.

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





Create dashboards to show business performance and revenue over time.

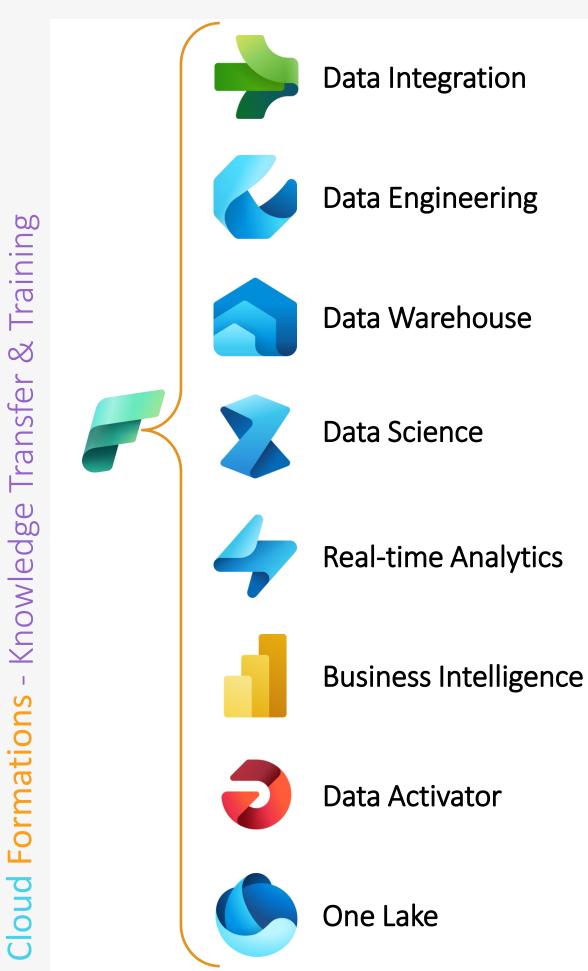


Simplifying Compute Consumption & Running Costs 1.



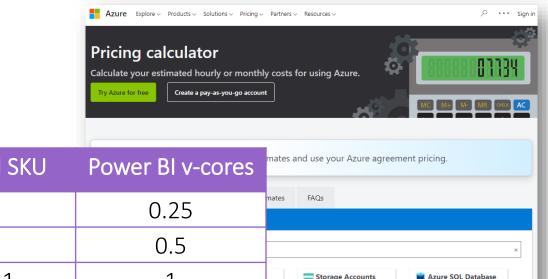
Q: How Can Microsoft Fabric Have an Impact on Your **Business**?

1. Simplifying Compute Consumption & Running Costs

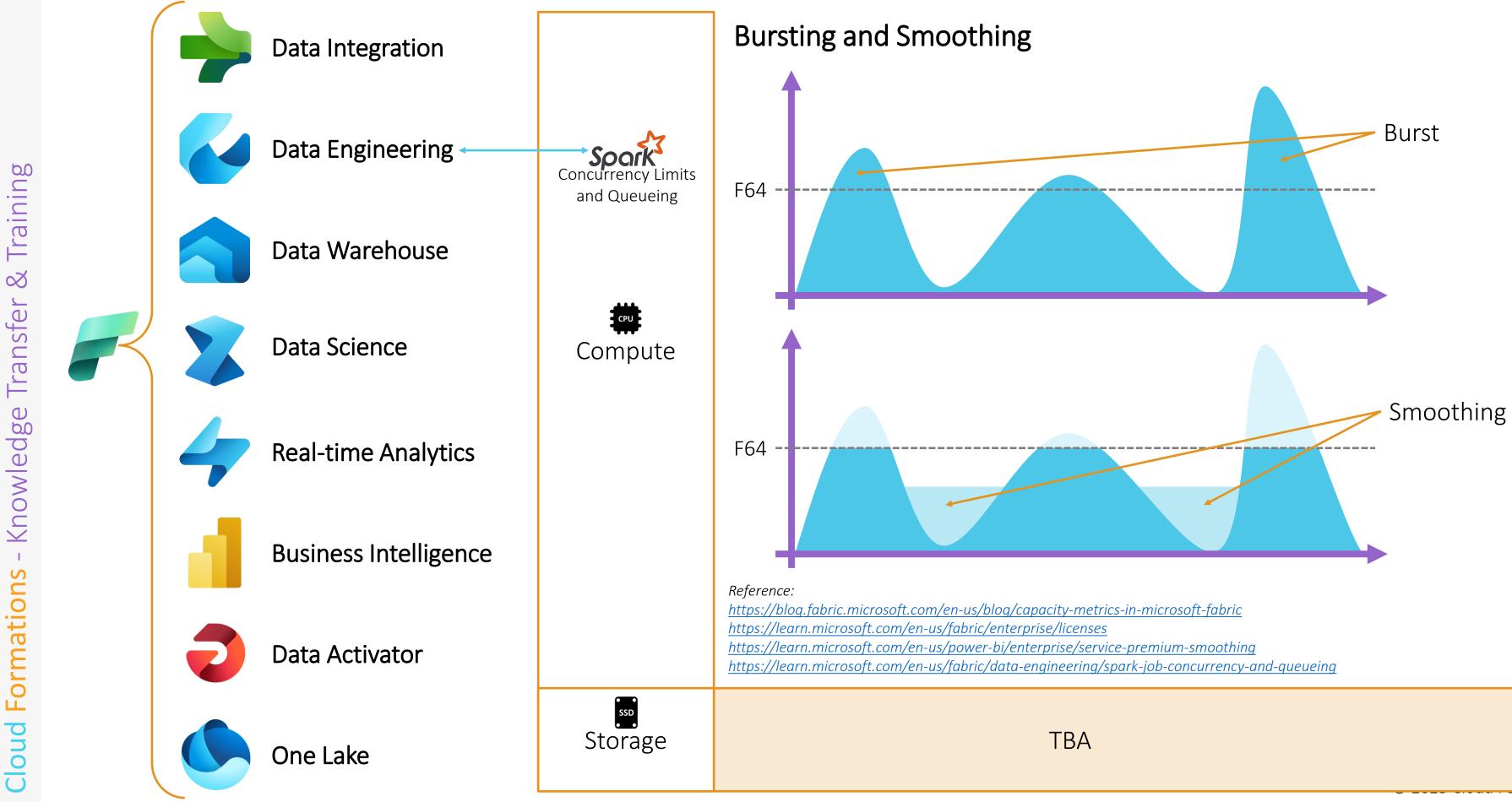


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	F4	4	-	0.5	×		
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	F16	16	EM2/A2	2	storage database in the cloud		
CPU	F32	32	EM3/A3	4	ud Fast NoSQL database with open APIs for any scale Build and scale with managed Kubernetes		
	F64	64	P1/A4	8	Azure Cognitive		
Compute	F128	128	P2/A5	16	Services Management ith Deploy high-quality AI models Monitor, allocate, and optimise cloud costs with transparency, accuracy and		
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	F512	512	P4/A7	64			
	F1024	1024	P5/A8	128			
	F2048	2048	-	256			
	Reference: <u>https://blog.fabric.microsoft.com/en-us/blog/capacity-metrics-in-microsoft-fabric</u> <u>https://learn.microsoft.com/en-us/fabric/enterprise/licenses</u> <u>https://learn.microsoft.com/en-us/power-bi/enterprise/service-premium-smoothing</u> <u>https://learn.microsoft.com/en-us/fabric/data-engineering/spark-job-concurrency-and-queueing</u>						
sso Storage			TBA				





1. Simplifying Compute Consumption & Running Costs





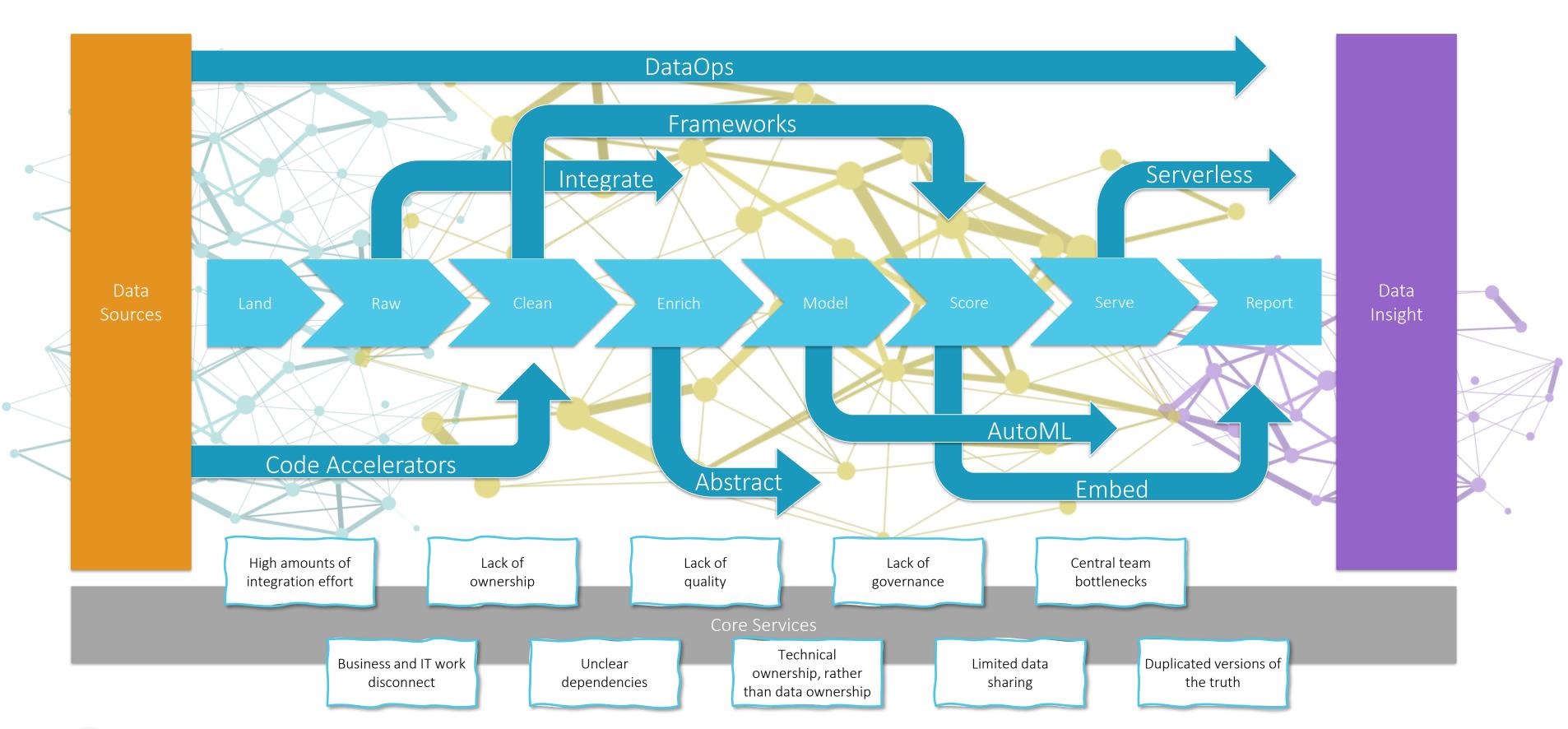
Simplifying Compute Consumption & Running Costs 1.

Accelerating Time to Insight 2.

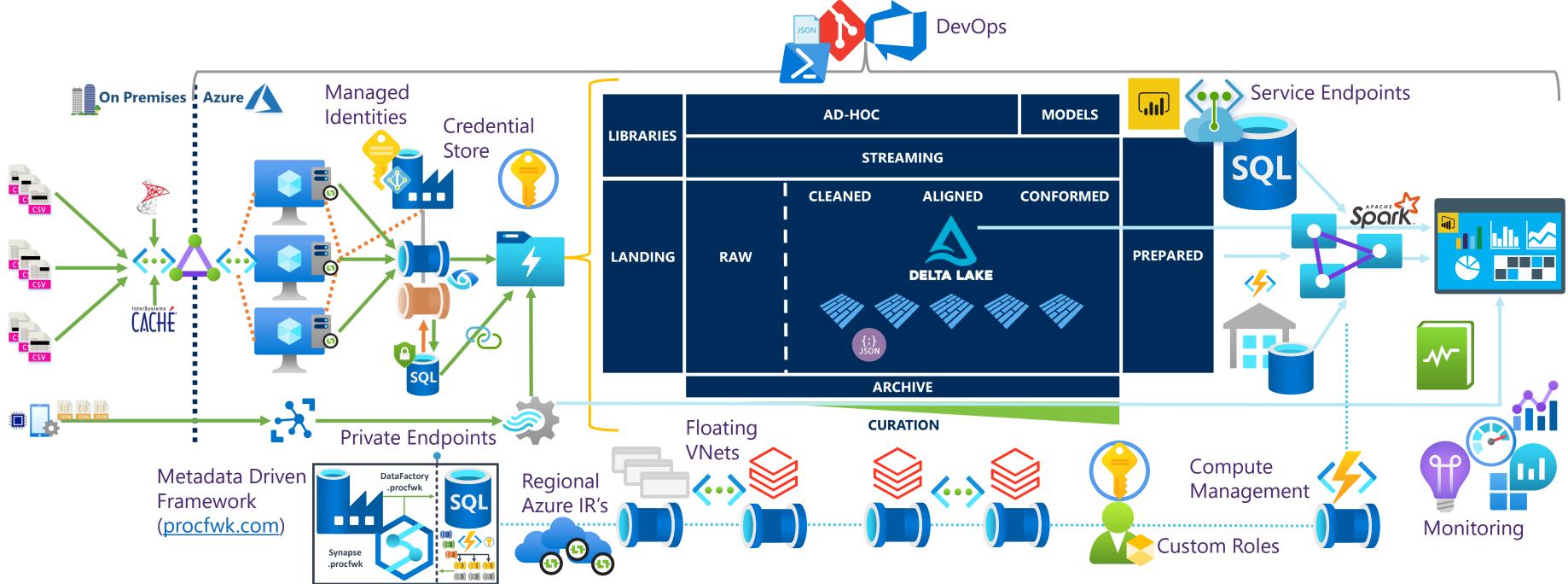


Q: How Can Microsoft Fabric Have an Impact on Your **Business**?





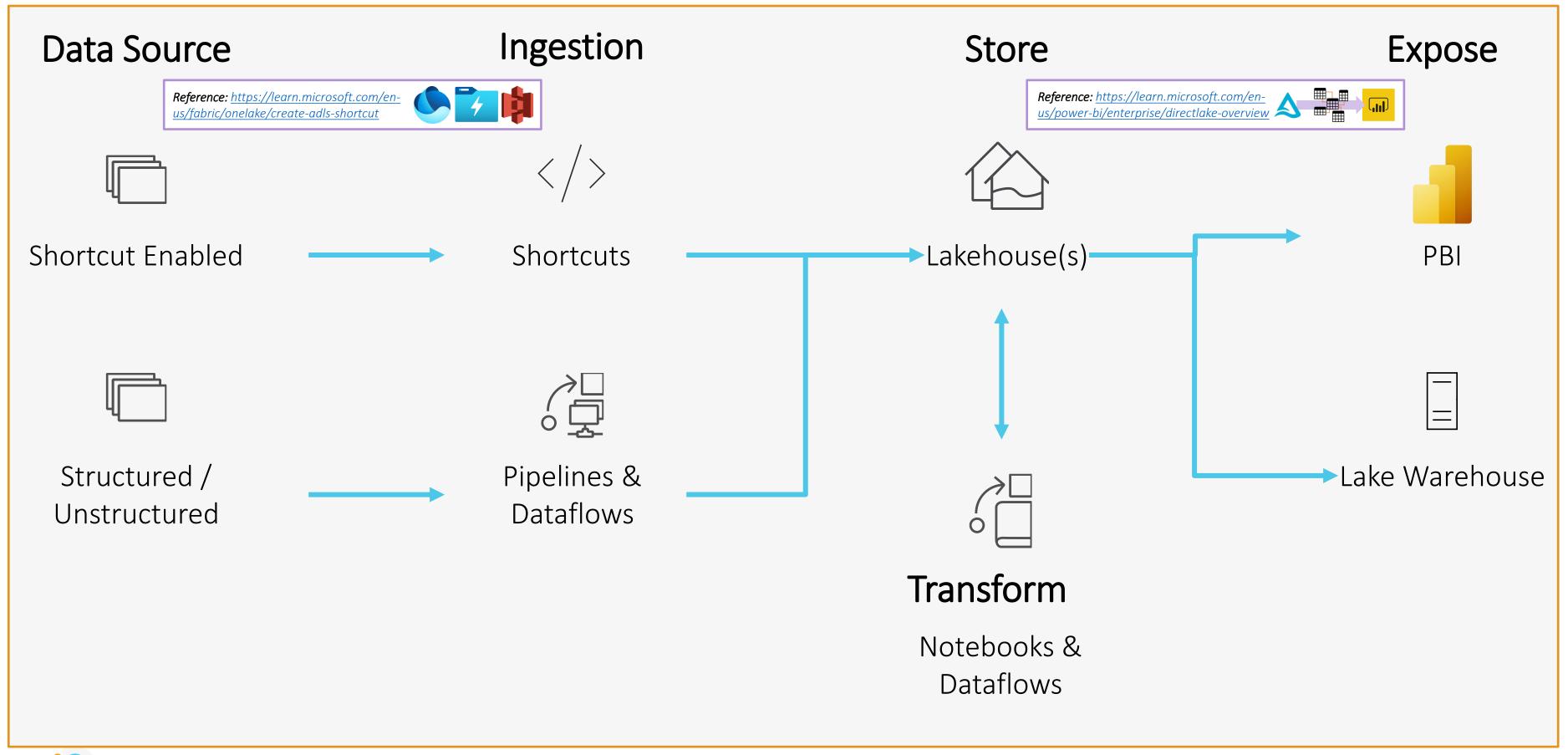






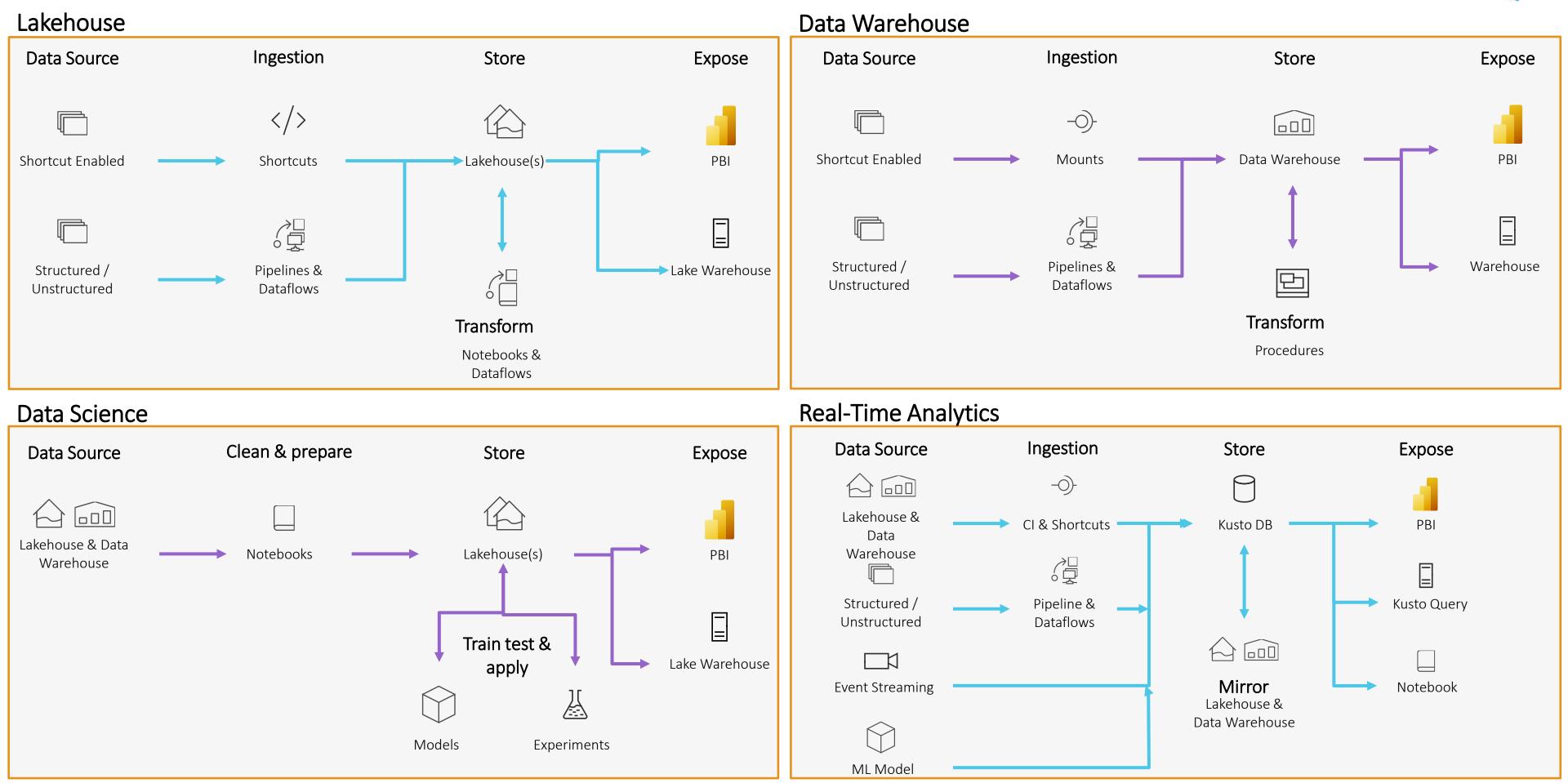


* Recorded 18th March 2023



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Microsoft Fabric – 'Happy Paths' (Patterns)



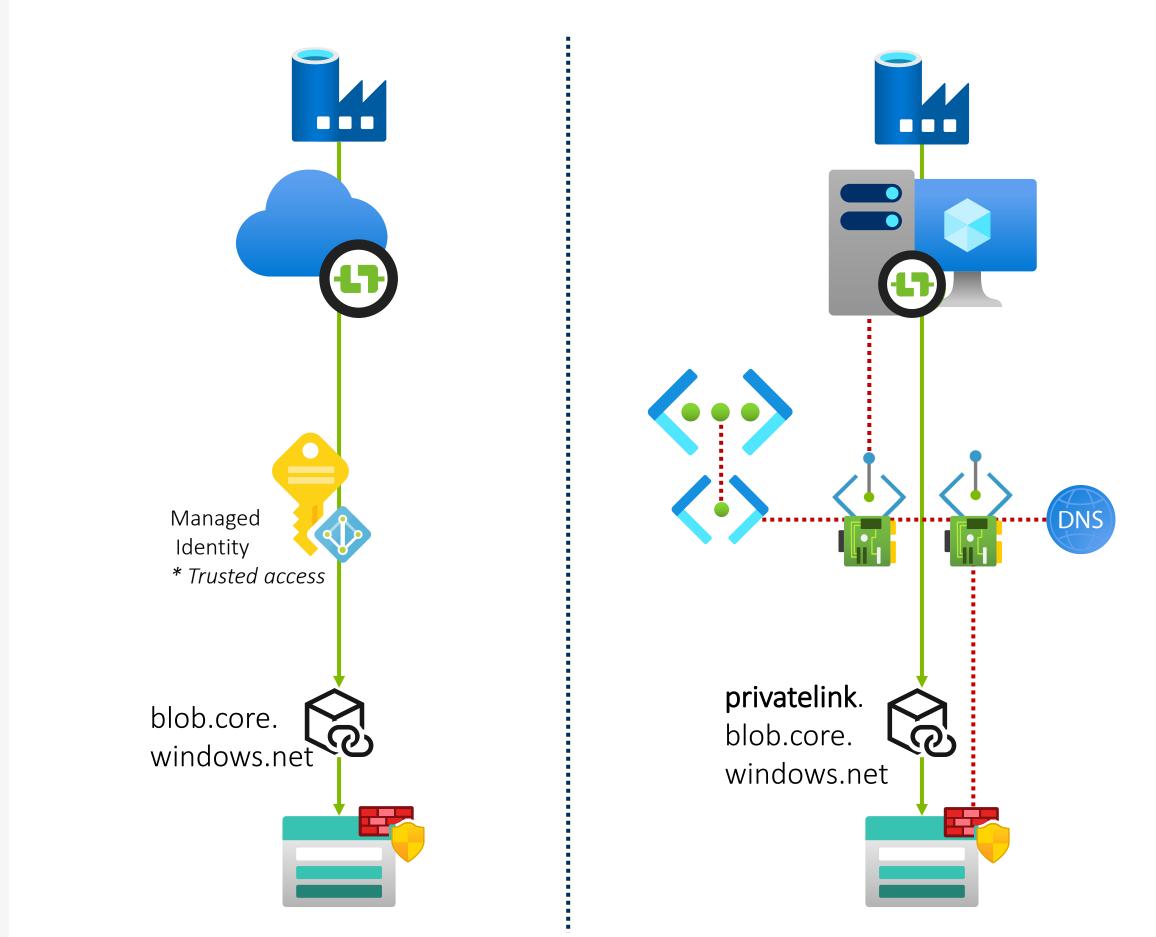


- Simplifying Compute Consumption & Running Costs 1.
- Accelerating Time to Insight 2.
- Unified Tooling Avoiding Complex Infrastructure 3.

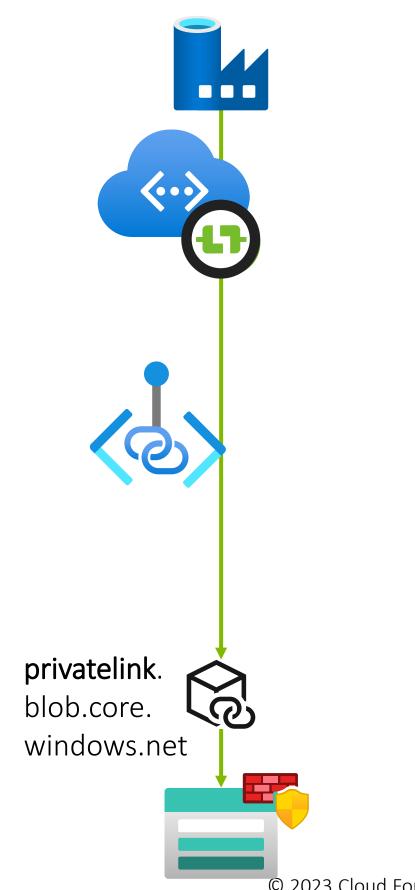


Q: How Can Microsoft Fabric Have an Impact on Your **Business**?

3. Unified Tooling – Avoiding Complex Infrastructure

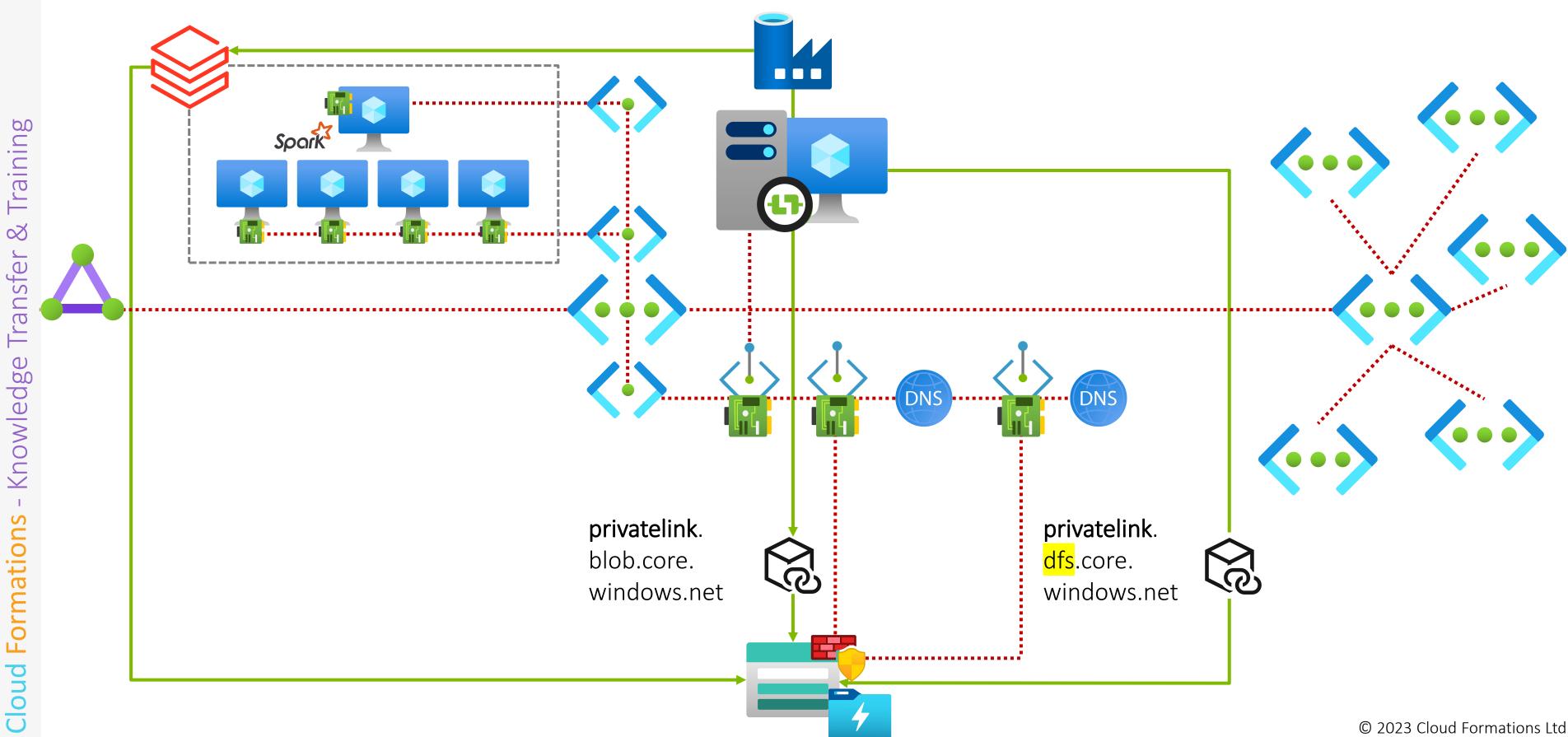






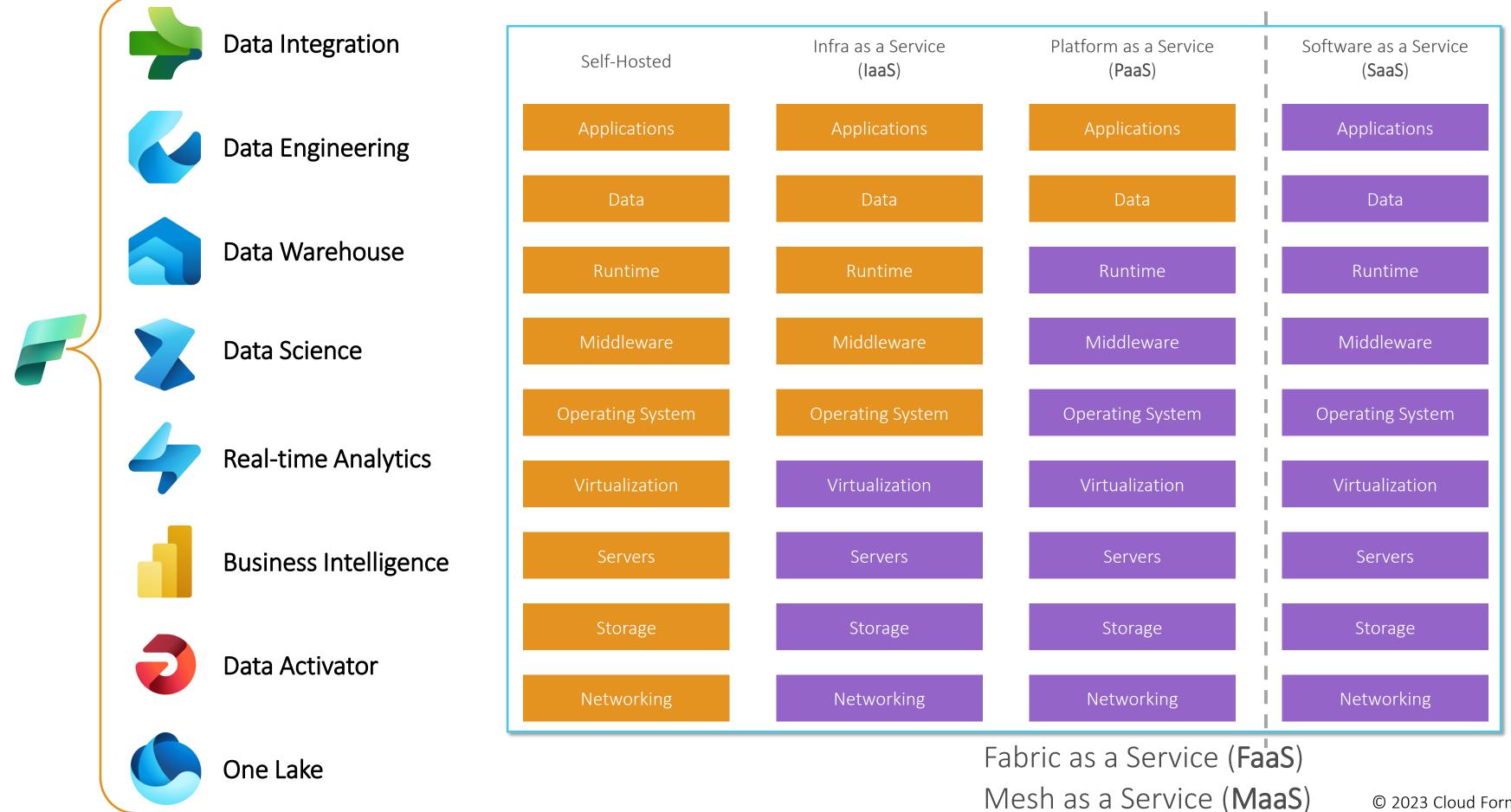
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3. Unified Tooling – Avoiding Complex Infrastructure





3. Unified Tooling – Avoiding Complex Infrastructure





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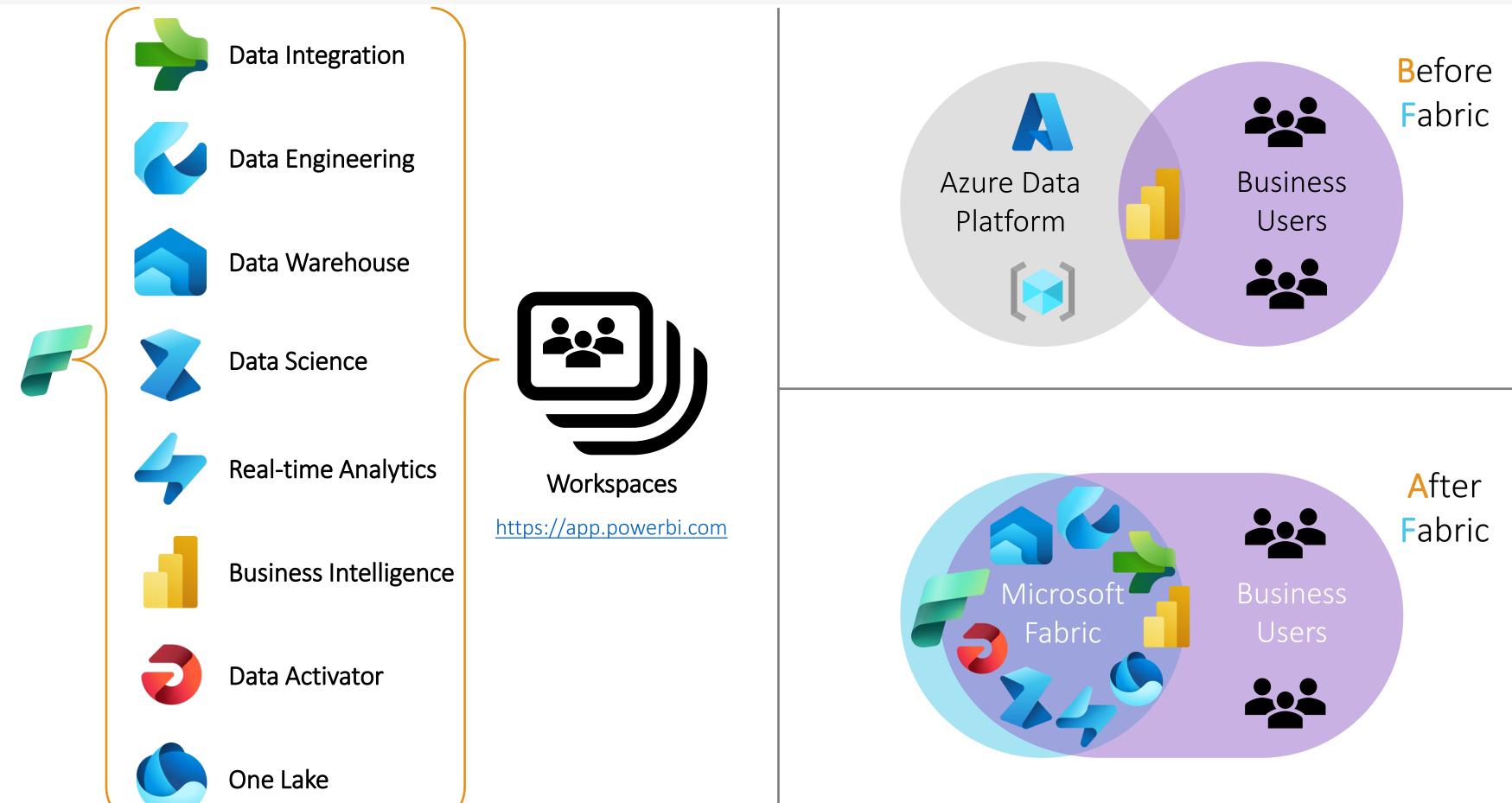
- Simplifying Compute Consumption & Running Costs 1.
- Accelerating Time to Insight 2.
- Unified Tooling Avoiding Complex Infrastructure 3.
- Empowering Business Users 4.

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

4. Empowering Business Users

Cloud Formations - Knowledge Transfer & Training





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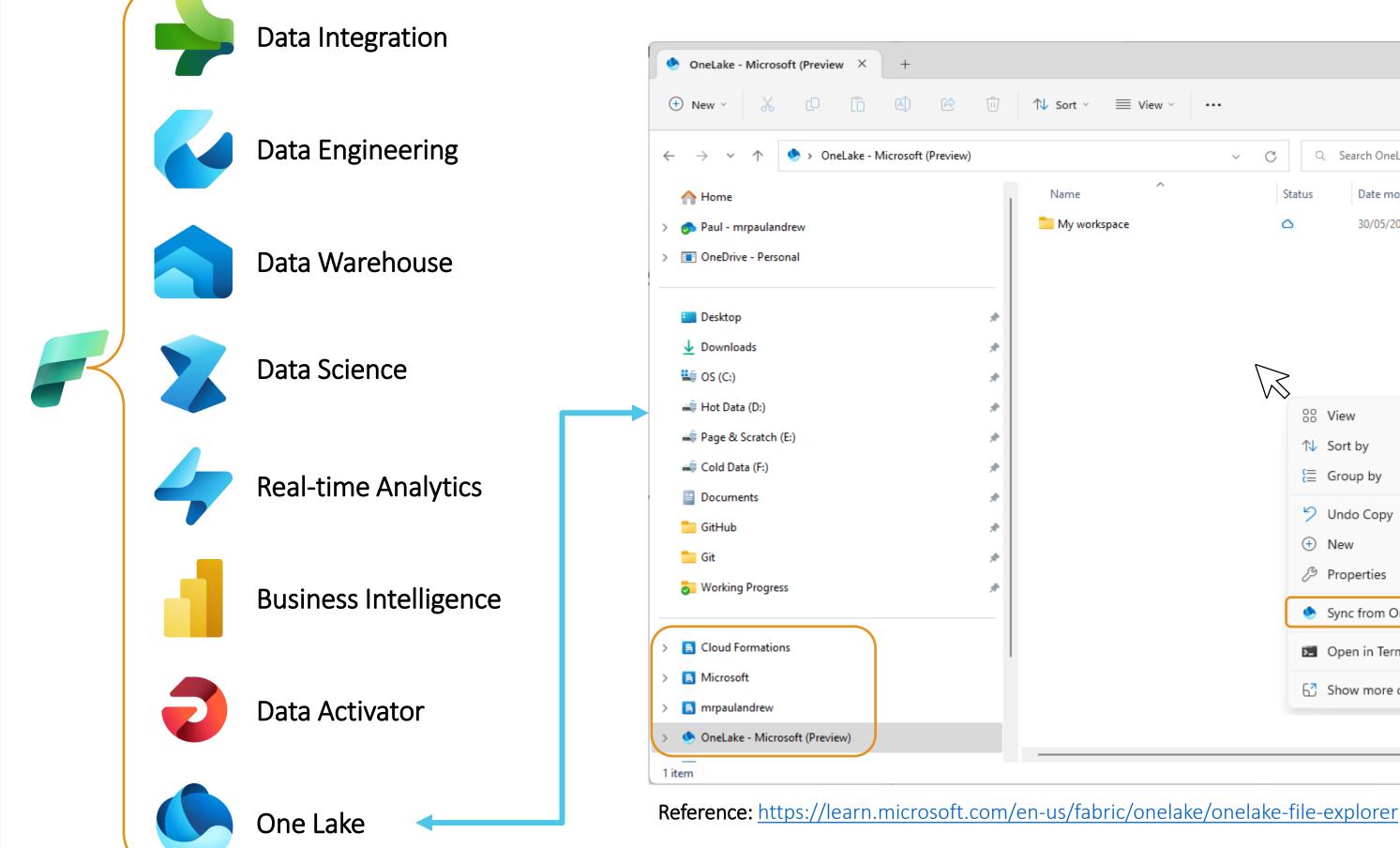
4. Empowering Business Users

Training

Knowledge Transfer &

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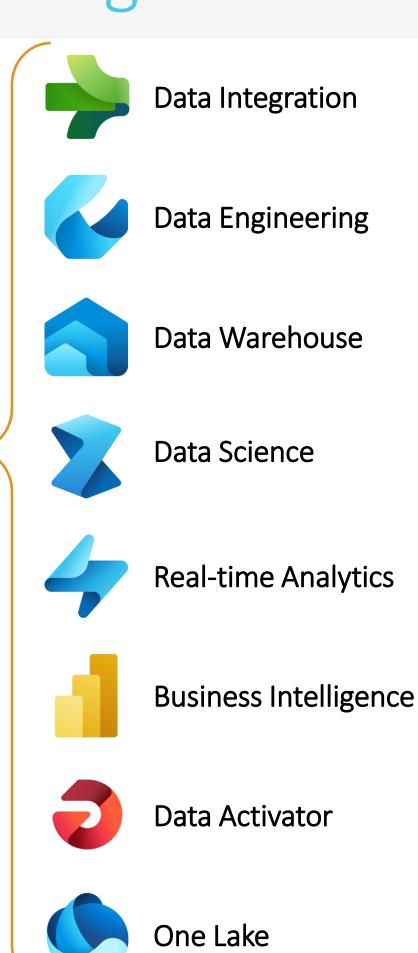
- Simplifying Compute Consumption & Running Costs 1.
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- Unified Tooling Avoiding Complex Infrastructure 3.
- Empowering Business Users 4.
- 5. Driving Innovation

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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

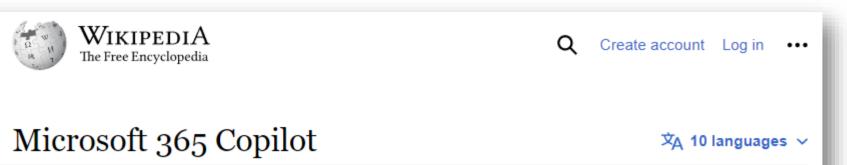
Microsoft 365 Copilot is an artificial intelligence assistant feature for Microsoft 365 Copilot Microsoft 365 applications and services.^{[1][2][3]} Announced by Microsoft on March 16, 2023, the tool builds on OpenAl's advanced GPT-4 large language models (LLMs) and incorporates Microsoft Graph in order 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/

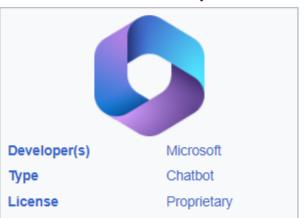
https://en.wikipedia.org/wiki/Microsoft 365 Copilot

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-



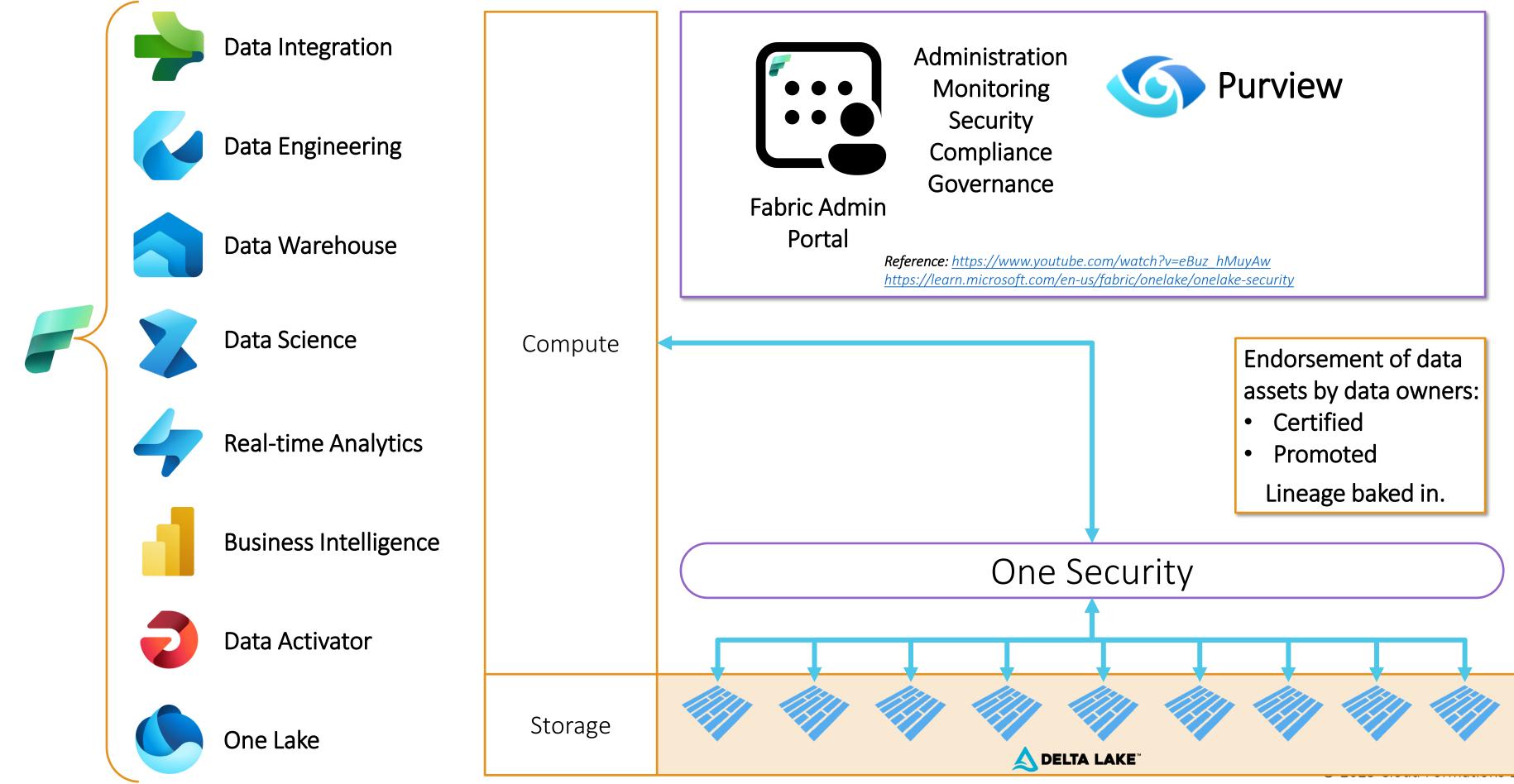
- Simplifying Compute Consumption & Running Costs 1.
- 2. Accelerating Time to Insight
- Unified Tooling Avoiding Complex Infrastructure 3.
- Empowering Business Users 4.
- 5. Driving Innovation
- 6. Improving Governance

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

6. Improving Governance – One Security & Admin

Knowledge Transfer & Training

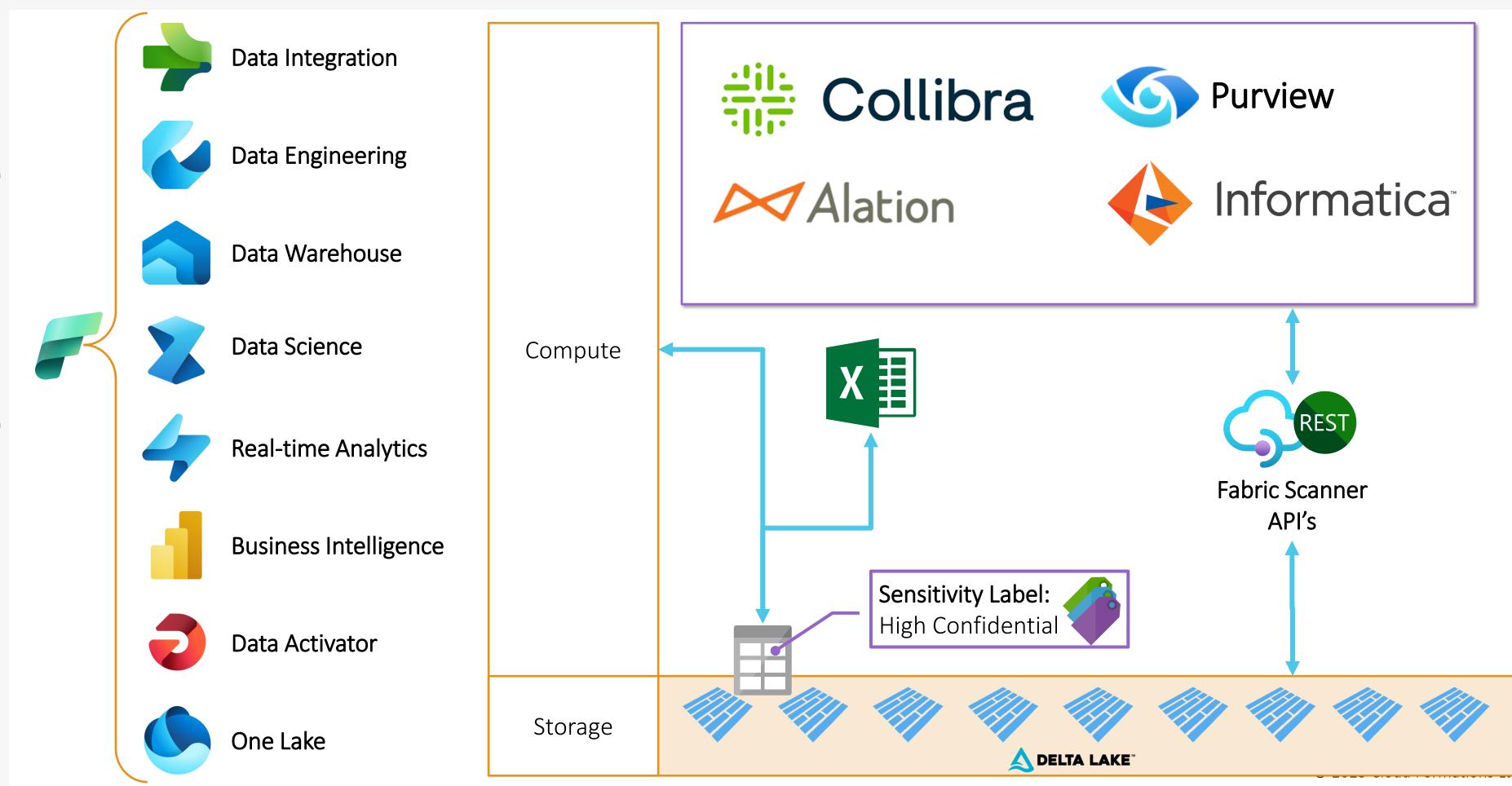
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6. Improving Governance – Sensitivity & Tooling







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: https://learn.microsoft.com/en-us/fabric/governance/domains





6. Improving Governance – Domains



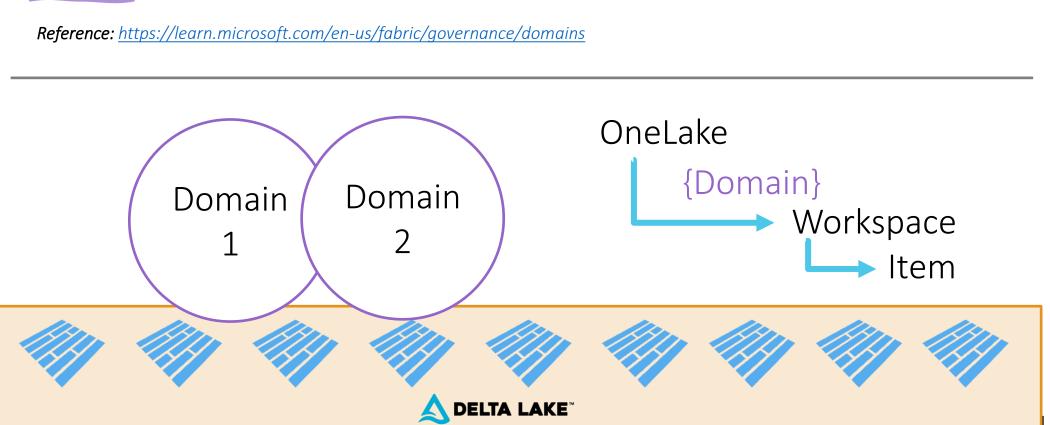
Knowledge Transfer & Training

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In Summary

Full Source Control. Private Network Connectivity. Key Vault Integration. A New URL. One Security. Comprehensive Monitoring.



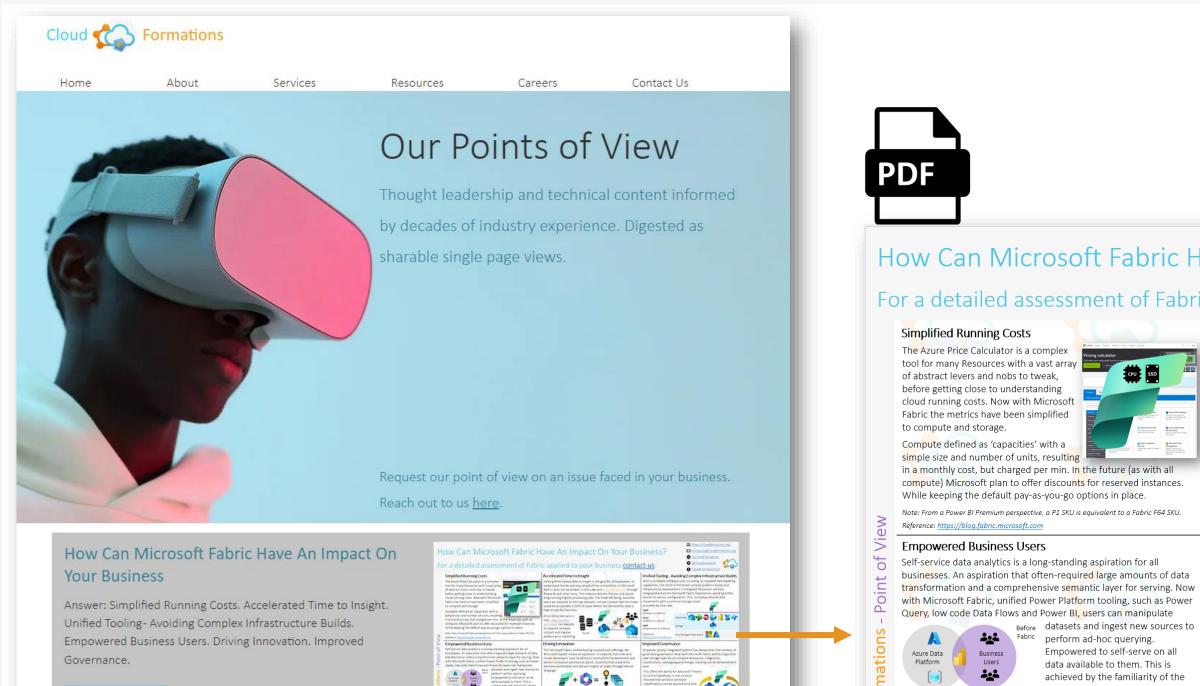


- Simplifying Compute Consumption & Running Costs 1.
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- Unified Tooling Avoiding Complex Infrastructure 3.
- **Empowering Business Users** 4.
- 5. Driving Innovation
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U: How Can Microsoft Fabric Have an Impact on Your **Business**?



CloudFormations.org/Points-Of-View

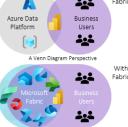


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An Evolution of Cloud Technology to Microsoft Fabric

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.





 perform ad-hoc querying.
Empowered to self-serve on all data available to them. This is achieved by the familiarity of the online Microsoft Fabric Workspace, previously used for Power BI,
meaning business users can explore all capabilities offered, while working within the guard rails of the Workspace Experiences.

50

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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 <u>accessed directly</u> through Power BI and other tools. This reduces delivery friction and avoids long 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.

Once initial demand is met, <u>data curation</u> <u>processes</u> can execute to support complex outputs and regular performance reporting.

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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 business automation and deliver insights at scale, through natural language.



It 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 obsolete. But, to mean an evolution in tasks that free up time for professionals to focus on the next wave of complex projects.

Reference: <u>https://blogs.microsoft.com</u>

<u>https://cloudformations.org</u>

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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.



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

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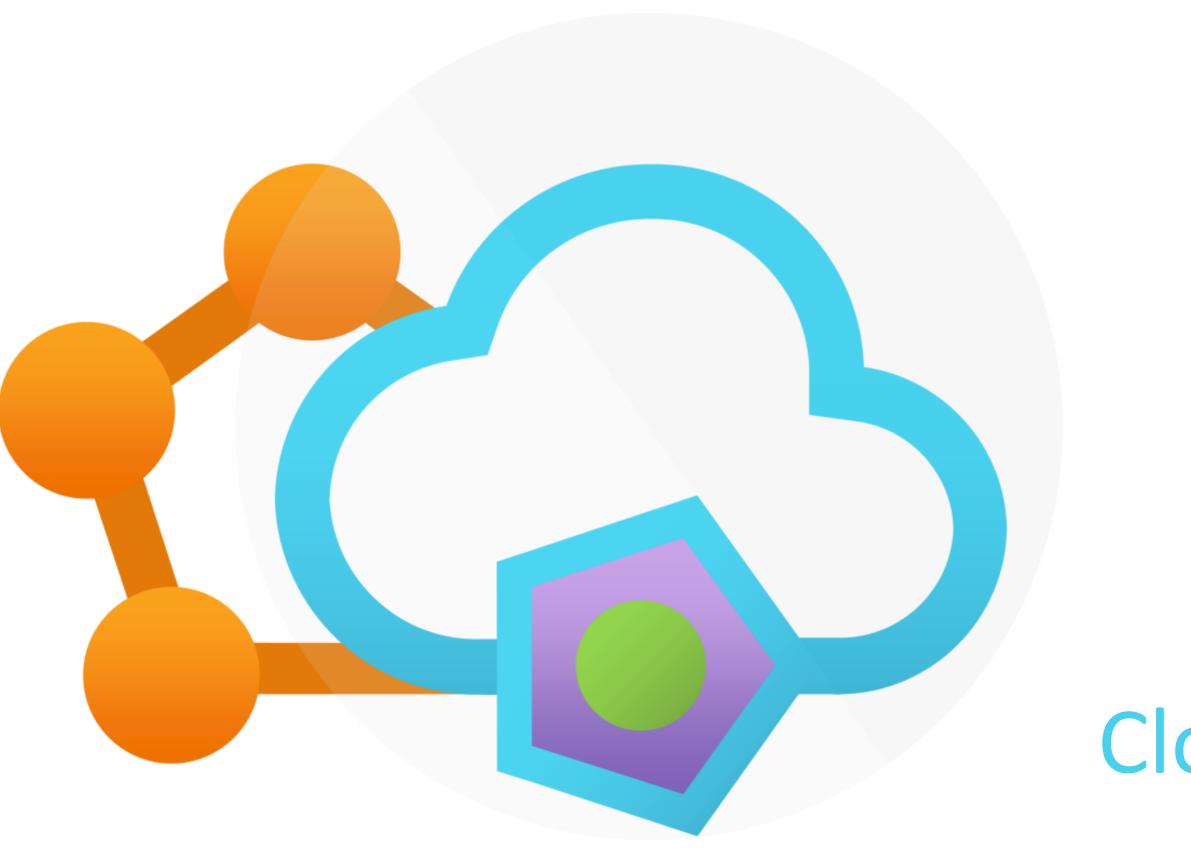


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Speaker:	Paul Andrew	Have an Impact on Your Business?
Date:	13 July 2023	Paul Andrew
Hosts:	Microsoft Fabric- UK User Group	Cloud Formations
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Thank You



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