Microsoft

Microsoft Fabric – Introduction

Data Platform Next Step @ Billund, Denmark, 2023

Microsoft

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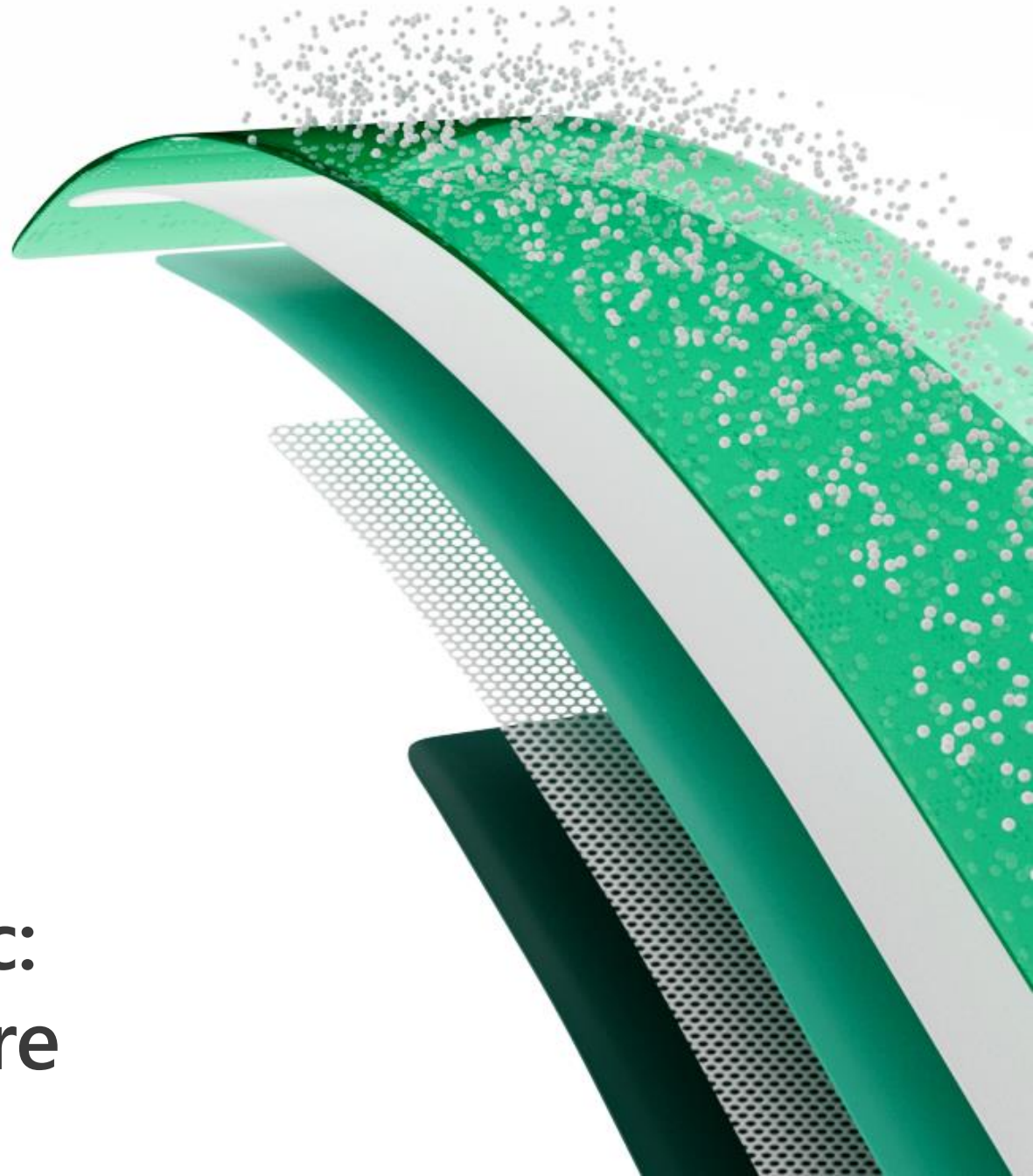
Microsoft Fabric: How we got here



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Today's data and analytics challenges

Balancing the need for data access and self-service analytics while remaining governed

Breaking down data siloes across the organization into a unified source of truth

Limited scalability of legacy solutions as data demand rises exponentially

Delivering on the promise of analytics with limited resources

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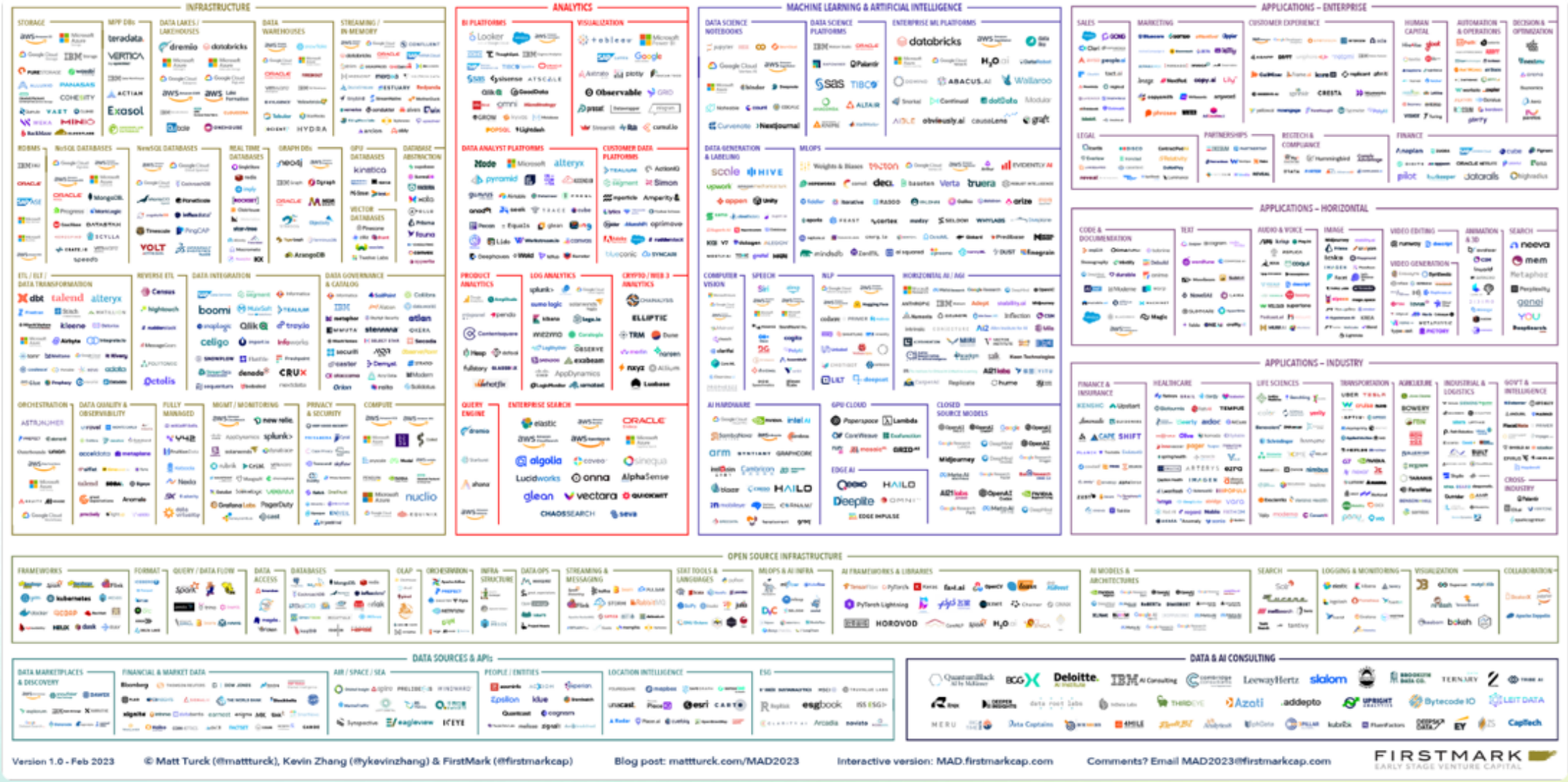
INFRASTRUCTURE
ANALYTICS
MACHINE LEARNING & ARTIFICIAL INTELLIGENCE
APPLICATIONS – ENTERPRISE
APPLICATIONS – HORIZONTAL
APPLICATIONS – INDUSTRY
OPEN SOURCE INFRASTRUCTURE
DATA SOURCES & APIs
DATA & AI CONSULTING
Version 1.0 - Feb 2023
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What we're hearing from our customers

How do I unify all disparate data sources cost-effectively?

How do I minimize security breaches and risks?

How do I improve analytical agility for my organization?

How do I ensure business users use the insights to get value from my investments?

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SaaS

"It just works"

5x5	Success by default	Centralized administration
Frictionless onboarding	Minimal knobs	Tenant-wide governance
Instant provisioning	Auto optimized	Centralized security management
Quick results w/ Intuitive UX	Auto integrated	Compliance built-in

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Microsoft Fabric: Introduction & Architecture

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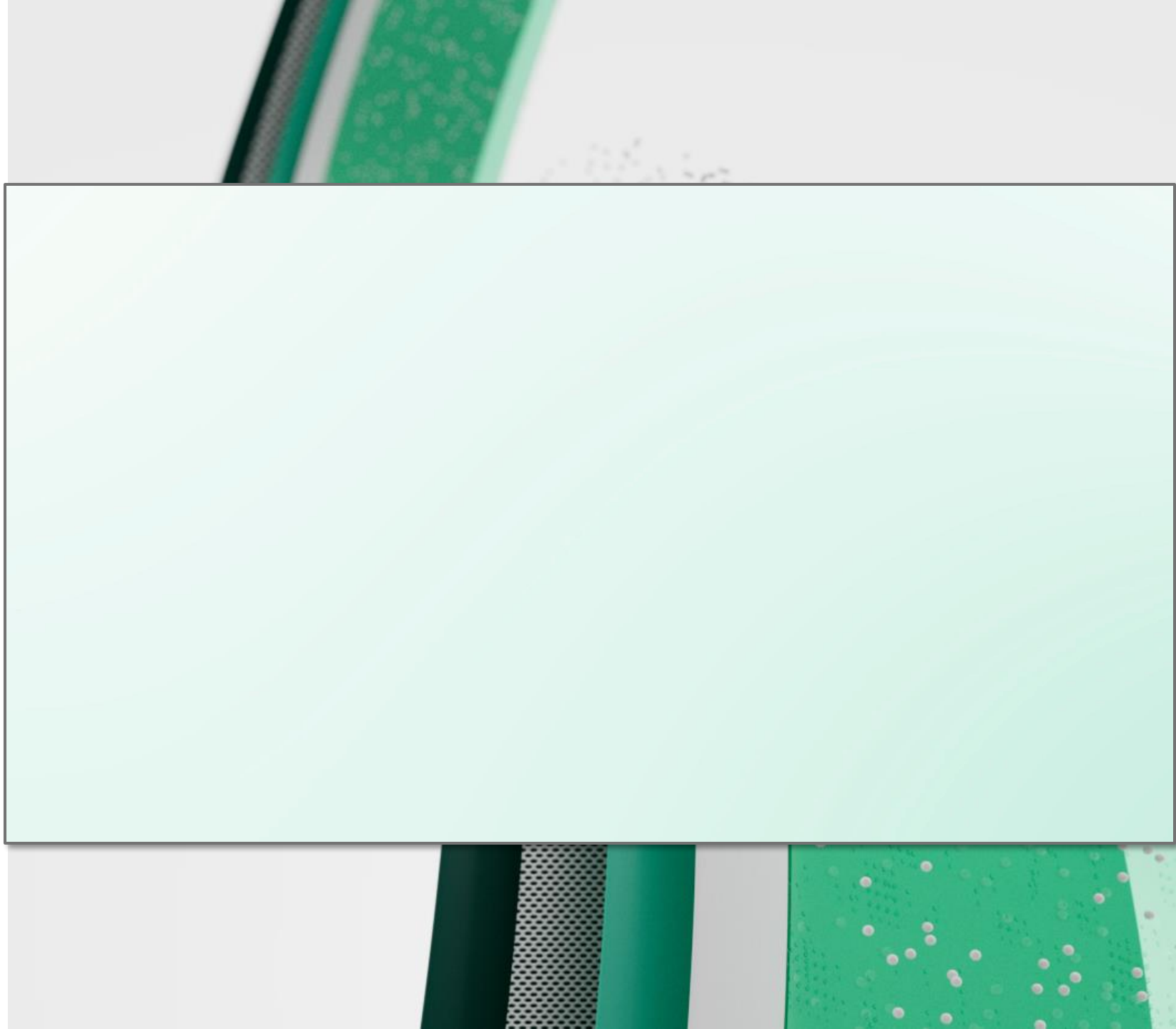
Introducing Microsoft Fabric

Fabric brings together existing offerings like Data Factory, Synapse, and Power BI into a single unified product for all your data and analytics workloads:

- Data Factory (data integration)
- Synapse Data Engineering
- Synapse Data Warehouse
- Synapse Real-Time Analytics
- Power BI (Business Intelligence)
- Data Activator



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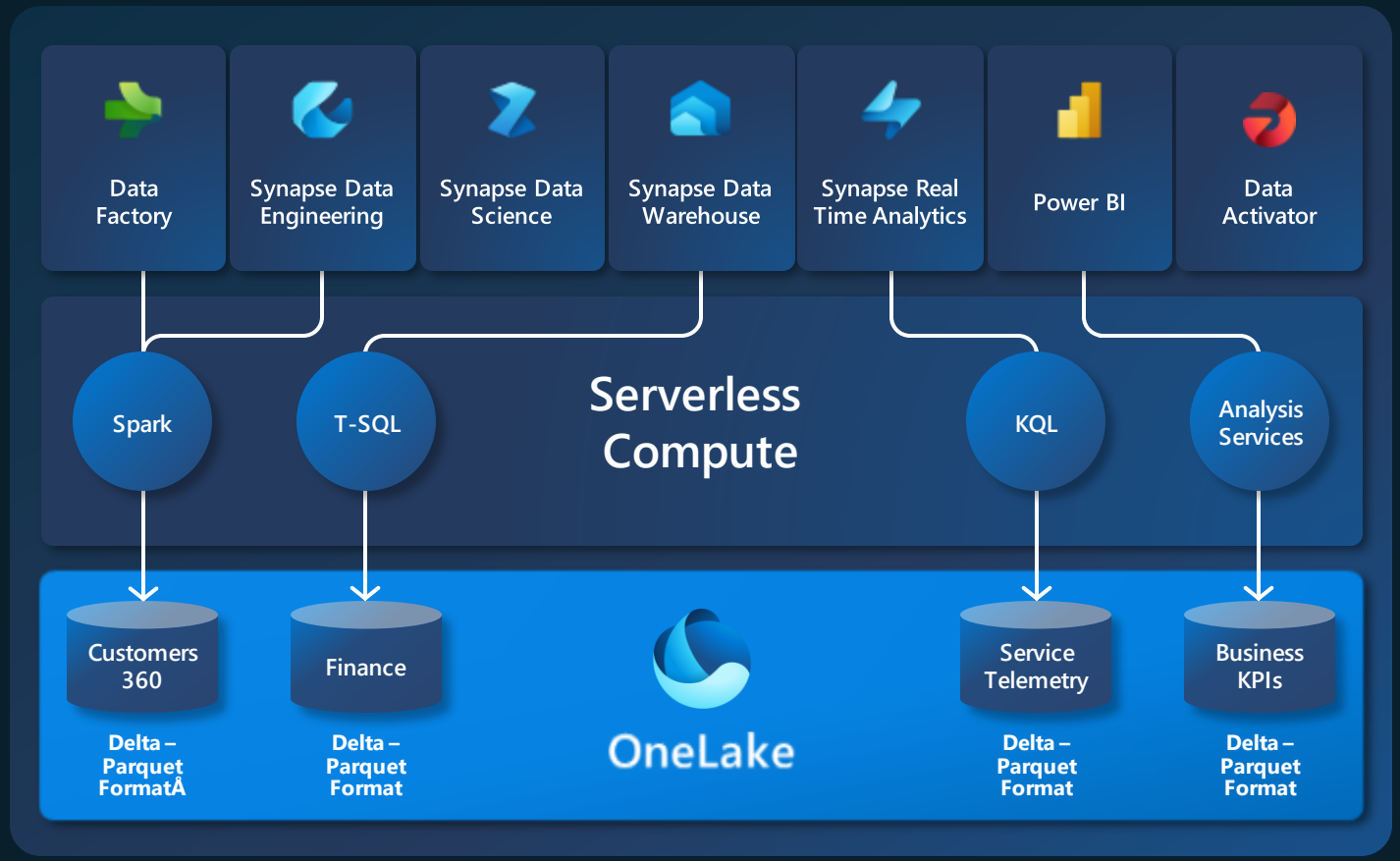
One Copy for all computes

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

Available now

Public preview

- Data Factory
- Synapse Data Engineering
- Synapse Data Science
- Synapse Data Warehousing
- Synapse Real Time analytics
- Copilot for Power BI (DAX)
- OneLake

Generally available

- Power BI

Private Preview

- Data Activator
- Copilot for Microsoft Fabric
- Copilot for Power BI (full)

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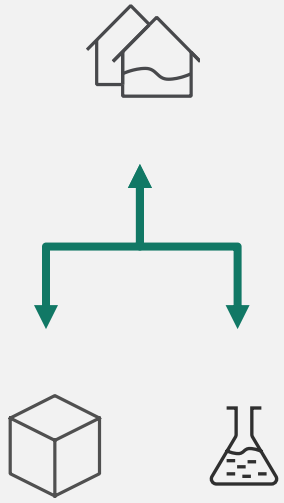
Microsoft Fabric: Capabilities & Scenarios

Common analytics scenarios

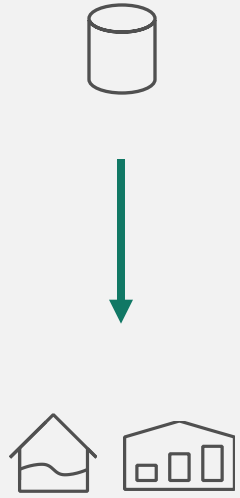
Lakehouse

Data Warehouse

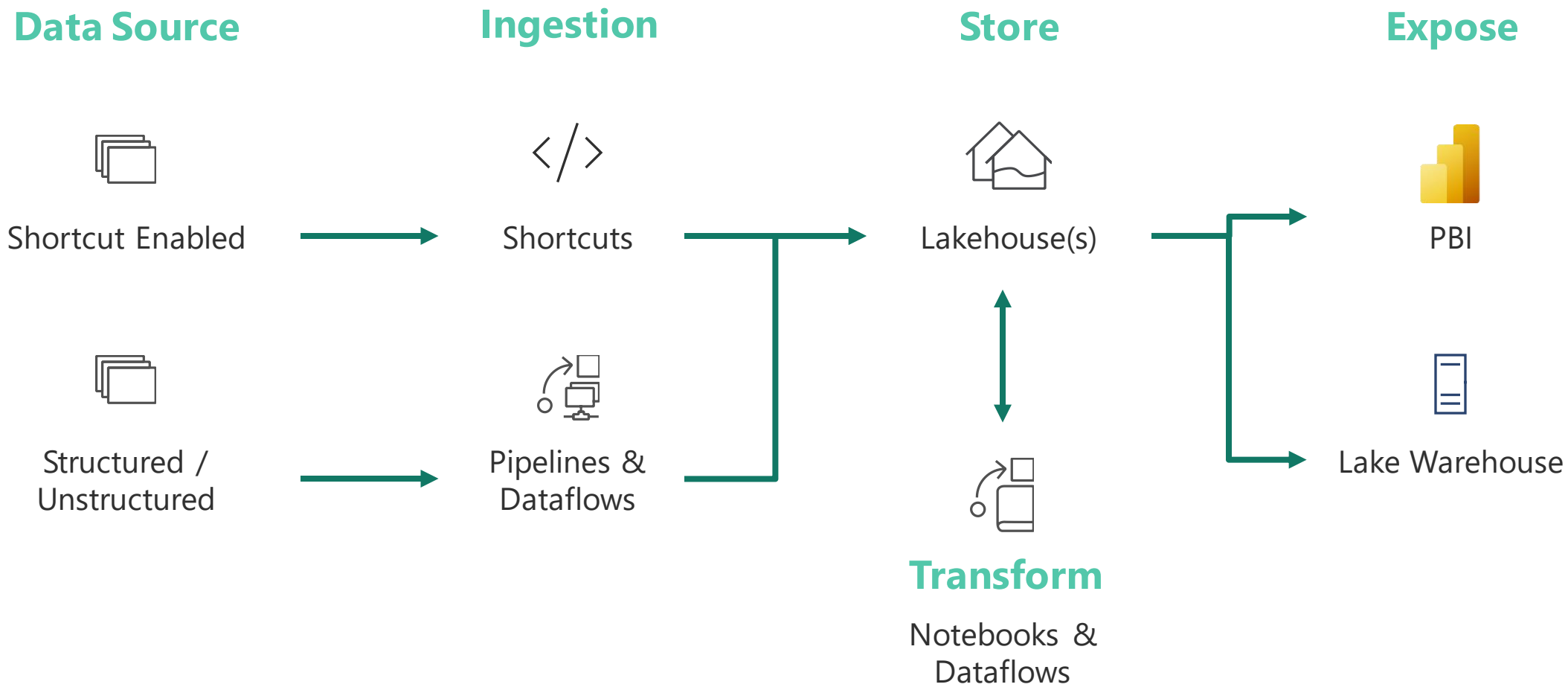
Data Science



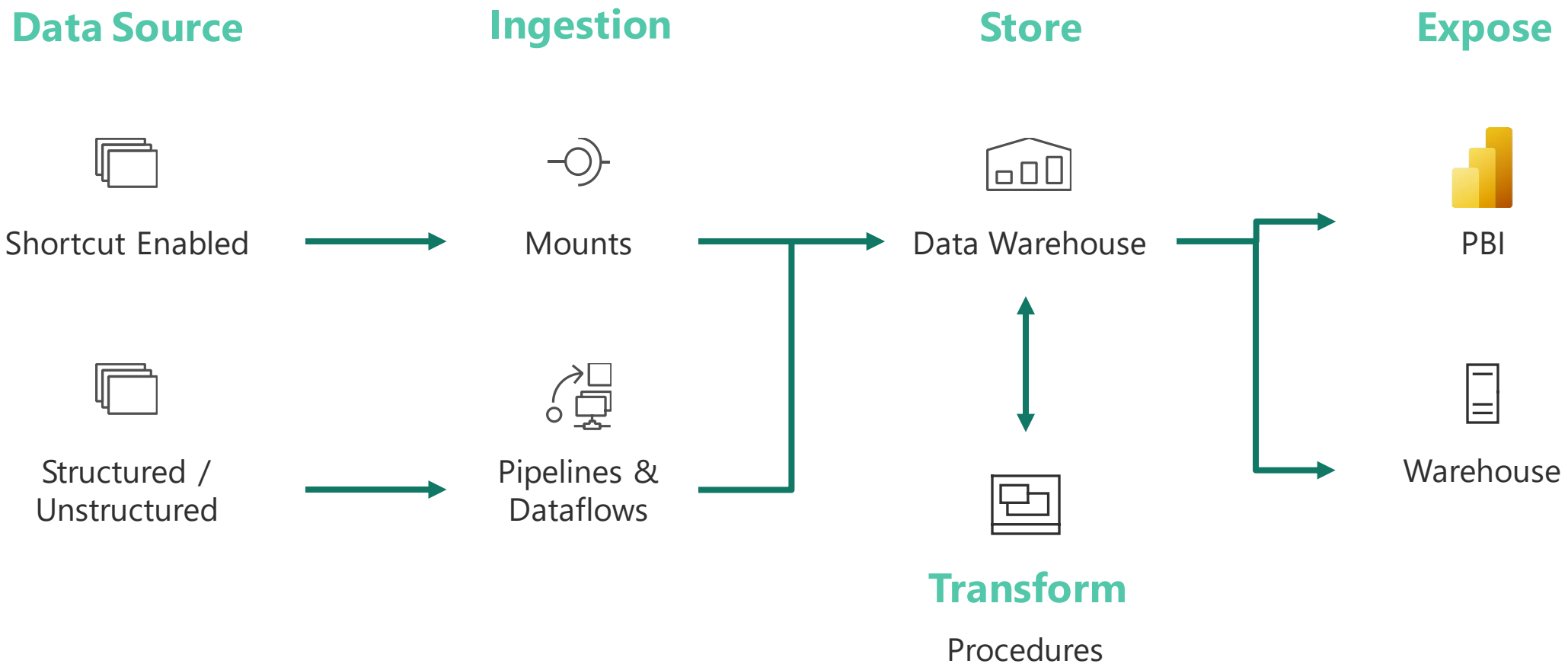
Real Time Analytics



Lakehouse


Data Source
Ingestion
Store
Expose
Shortcut Enabled
Shortcuts
Lakehouse(s)
PBI
Structured / Unstructured
Pipelines & Dataflows
Lake Warehouse
Transform
Notebooks & Dataflows

Data warehouse



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Microsoft Fabric: Hands-on demos

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Microsoft Fabric: Getting Started

Get started today

Explore the product here: https://aka.ms/try-fabric

Get your questions answered in the Microsoft Fabric webinar series: https://aka.ms/fabric-webinar-series

See the latest announcements in the Microsoft Fabric blog site: https://aka.ms/fabric-tech-blog

Read the implementation guide: https://aka.ms/Getting-Started-eBook

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Microsoft Fabric: Q&A

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Thank you