



Az Excelnek vége: Kapcsolja be a Microsoft Fabric-et

**Vezetői útmutató arról,
hogy miért érdemes elhagyni az Excelt**

2025. március 18



Program

9:30 Köszöntő és bemutatkozás

Peter Stein | Üzletfejlesztési vezető, Noventiq

9:40 Adatvezérelt siker: hogyan segíti a Microsoft Fabric a vállalkozásokat okosabb döntésekben

Kondé Bálint | Adatok és mesterséges intelligencia megoldások szakértője, Microsoft

10:00 Kulcstanulmányok és felfedezések az Európában befejezett Fabric projektekből

Arturs Lazdekalns | Adatelemzési és üzletfejlesztési menedzser, Noventiq

10:25 Teljes ciklusú Fabric bemutató az adatfeldolgozástól az interaktív PowerBI-jelentésig

Unda Paula Rismane | Adaelemzési Delivery vezető és Fabric szakértő, Noventiq

11:15 Kávészünet

11:45 Az adatok ereje: A Noventiq kliens a Microsoft Fabric adoptáció eseteit használja

Bozo Károly | Cloud Solutions Architect, Noventiq

12:15 Kérdések és válaszok



We are a global leader in Digital Transformation & Cybersecurity



At the epicentre of Digital Transformation, where advanced vendor relationships meet proprietary solutions & services

With a global presence focused on local outcomes in emerging markets

And with unique combination of scale, capabilities, and offerings

100s

of vendor transacted, covering all aspects of DX

80k

B2B customers to draw DX experience from

\$1.9b

FY24 gross revenue

R&D

for complementary products, including AI

c.60

Countries where we transact

London

headquarters of the global organization, incorporated in Cayman Islands

c.30

years of experience in the IT market

11

24/7 delivery centres, serving customers in their languages

Full suite

of DX solutions for any organization

All buying types

supported by our systems and organization

c.6.4k

employees, delivering value to customers

14

recent acquisitions to expand capabilities and align closer to customers

We will find the right solution for your requirements

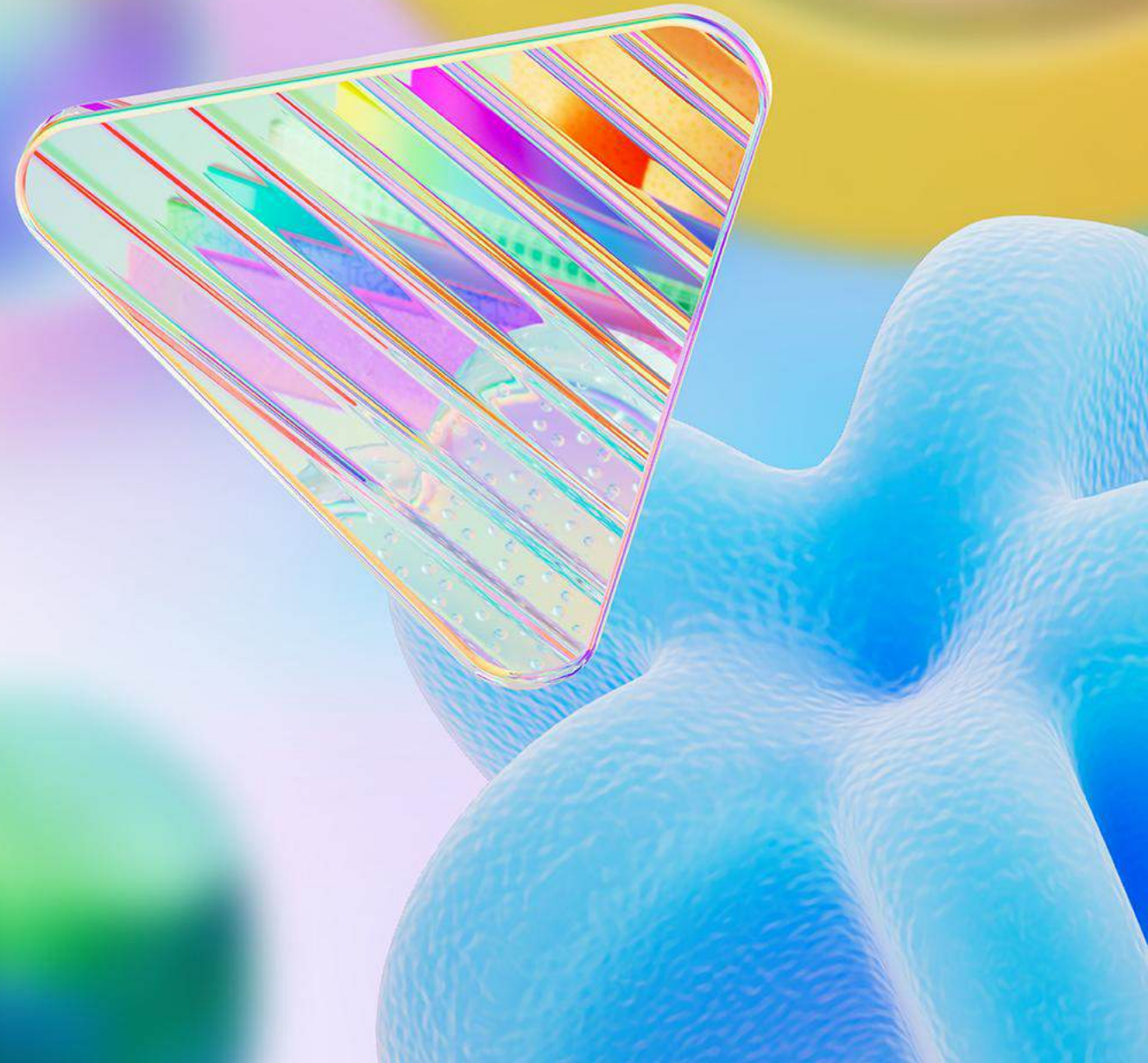
We work closely with each client to develop a tailored plan that meets their specific needs

 <p>AI & Data</p>	 <p>Cloud Solutions and Services</p>	 <p>Custom software development</p>	 <p>Cybersecurity</p>
 <p>Future Workplace solutions and services</p>	 <p>Business Solutions</p>	 <p>Industry solutions</p>	 <p>Modern Hybrid Infrastructure</p>
 <p>Software: license & subscription</p>	 <p>Microsoft Solutions</p>	 <p>Outsourcing & Technical Support</p>	 <p>Asset Management & Digital IT Optimization</p>



Data-driven success: how Microsoft Fabric helps businesses make smarter decisions

Bálint Kondé | Data and Artificial
Intelligence Solution Expert, Microsoft

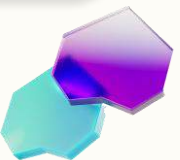


• Creating your own generative AI requires...

• **Powerful AI models**



• **Clean data—lots of it**



But there are some blockers, silos...different tech, skills, pricing and overheads etc.

The image displays a vast collection of logos for technology companies, organized into several main categories:

- INFRASTRUCTURE:** Includes STORAGE (AWS, Microsoft Azure, Google Cloud, IBM, Oracle), MPP DBs (Teradata, Vertica, IBM, Exasol), DATA LAKES / LAKEHOUSES (Dremio, Databricks, AWS Lake Formation), DATA WAREHOUSES (AWS Redshift, Snowflake, Oracle, IBM), STREAMING / IN-MEMORY (AWS Kinesis, Confluent, Databricks, Apache Kafka), RDBMS (Oracle, IBM DB2, SAP HANA, Microsoft SQL Server), NuSQL DATABASES (Cassandra, MongoDB, Aerospike), NewSQL DATABASES (CockroachDB, Yugabyte, Amazon Redshift), REAL TIME DATABASES (InfluxDB, Redis, Apache Kudu), GRAPH DBs (Neo4j, Amazon Neptune, Dgraph), GPU DATABASES (Kinetica, Databricks), DATABASE ABSTRACTION (Docker, Amazon EMR), VECTOR DATABASES (Pinecone, Weaviate), and ORCHESTRATION (Astronomer, Prefect, Dagster).
- ANALYTICS:** Includes BI PLATFORMS (Looker, Tableau, Microsoft Power BI, SAP Analytics Cloud), VISUALIZATION (Tableau, Microsoft Power BI, SAP Analytics Cloud), DATA ANALYST PLATFORMS (Alteryx, Tableau, Microsoft Power BI), and CUSTOMER DATA PLATFORMS (Tealium, Adobe, Salesforce).
- MACHINE LEARNING & ARTIFICIAL INTELLIGENCE:** Includes DATA SCIENCE NOTEBOOKS (Databricks, Google Colab), DATA SCIENCE PLATFORMS (IBM Watson, SAS, Oracle), ENTERPRISE ML PLATFORMS (Databricks, H2O, DataRobot), DATA GENERATION & LABELING (Scale AI, Hive), MLOPS (Weights & Biases, Pachyderm), SPEECH (Siri, Amazon Alexa), NLP (OpenAI GPT, Google Cloud NLP), HORIZONTAL AI / AGI (Anthropic, OpenAI GPT), AI HARDWARE (NVIDIA, Intel AI), GPU CLOUD (Paperspace, Lambda), and CLOSED SOURCE MODELS (OpenAI GPT, Anthropic Claude).
- APPLICATIONS - ENTERPRISE:** Includes SALES (Salesforce), MARKETING (HubSpot, Marketo), CUSTOMER EXPERIENCE (Salesforce CX), HUMAN CAPITAL (Workday), AUTOMATION & OPERATIONS (UiPath), and DECISION & OPTIMIZATION (Palantir).
- APPLICATIONS - HORIZONTAL:** Includes CODE & DOCUMENTATION (GitHub), TEXT (OpenAI GPT), AUDIO & VOICE (OpenAI Whisper), IMAGE (OpenAI DALL-E), VIDEO EDITING (Runway), ANIMATION & 3D (Blender), and SEARCH (Elasticsearch, Algolia).
- APPLICATIONS - INDUSTRY:** Includes FINANCE & INSURANCE (Kensho), HEALTHCARE (Tempus), LIFE SCIENCES (Moderna), TRANSPORTATION (Uber), AGRICULTURE (John Deere), INDUSTRIAL & LOGISTICS (DHL), and GOVT & INTELLIGENCE (Palantir).
- OPEN SOURCE INFRASTRUCTURE:** Includes FRAMEWORKS (TensorFlow, PyTorch), FORMAT (JSON, XML), QUERY / DATA FLOW (Apache Spark), DATA ACCESS (Apache Flink), DATABASES (MongoDB, Redis), OLAP (Apache Druid), ORCHESTRATION (Apache Airflow), INFRA-STRUCTURE (Kubernetes), DATA OPS (DataHub), STREAMING & MESSAGING (Apache Kafka), and STAT TOOLS & LANGUAGES (R, Python).
- DATA SOURCES & APIs:** Includes DATA MARKETPLACES & DISCOVERY (Bloomberg), FINANCIAL & MARKET DATA (Bloomberg, Refinitiv), AIR / SPACE / SEA (OpenSky), PEOPLE / ENTITIES (ZoomInfo), LOCATION INTELLIGENCE (PlacerIQ), and ESG (ESG Databases).
- DATA & AI CONSULTING:** Includes QuantumBlack, Deloitte AI Institute, Cambridge AI Consulting, LeewayHertz, Slalom, Booz Allen Hamilton, Ternary, and many others.

The data platform for the era of AI

From

Multiple analytics services

Disconnected data sources

Isolated application

Gen AI bolt on

To

Unified stack

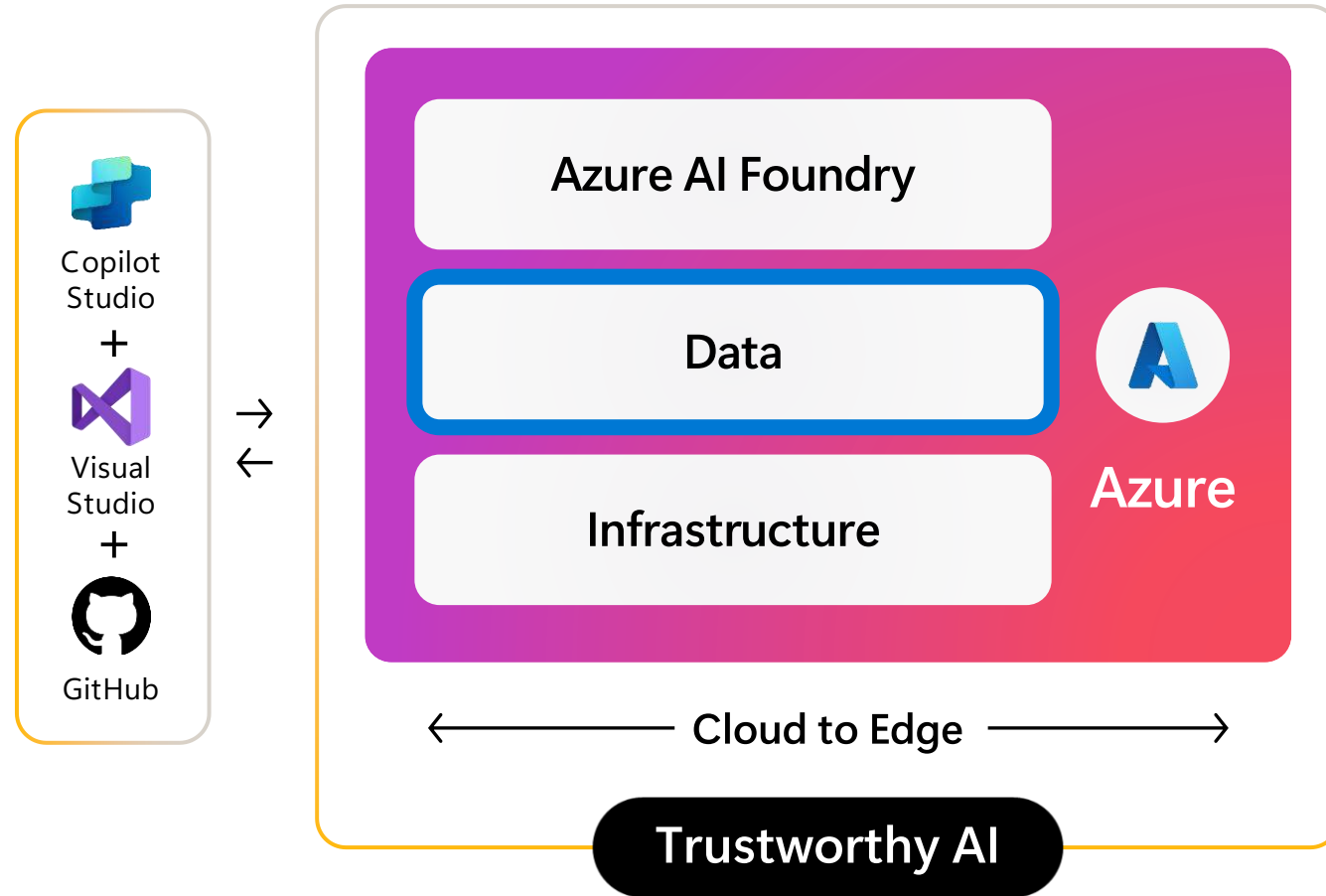
All the data in one place

Entire estate

Gen AI built in

Copilot & AI stack

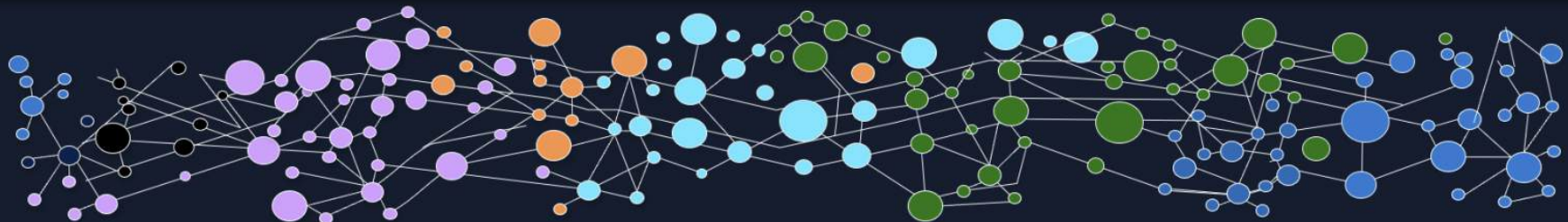
Complete tech stack to build your generative AI solutions



Azure Data Foundation for Analytics and AI



Data



Data Sources

-  Multi-Cloud Datalakes
-  Operational Stores
-  Data Warehouse
-  Business Apps
-  Edge IoT
-  Media Structured
-  Logs & Streams Unstructured
-  Web
-  APIs



Microsoft Fabric



Data
Factory



Real-Time
Intelligence

NEW



Databases



Analytics



Industry
Solutions



Power BI



Partner
solutions



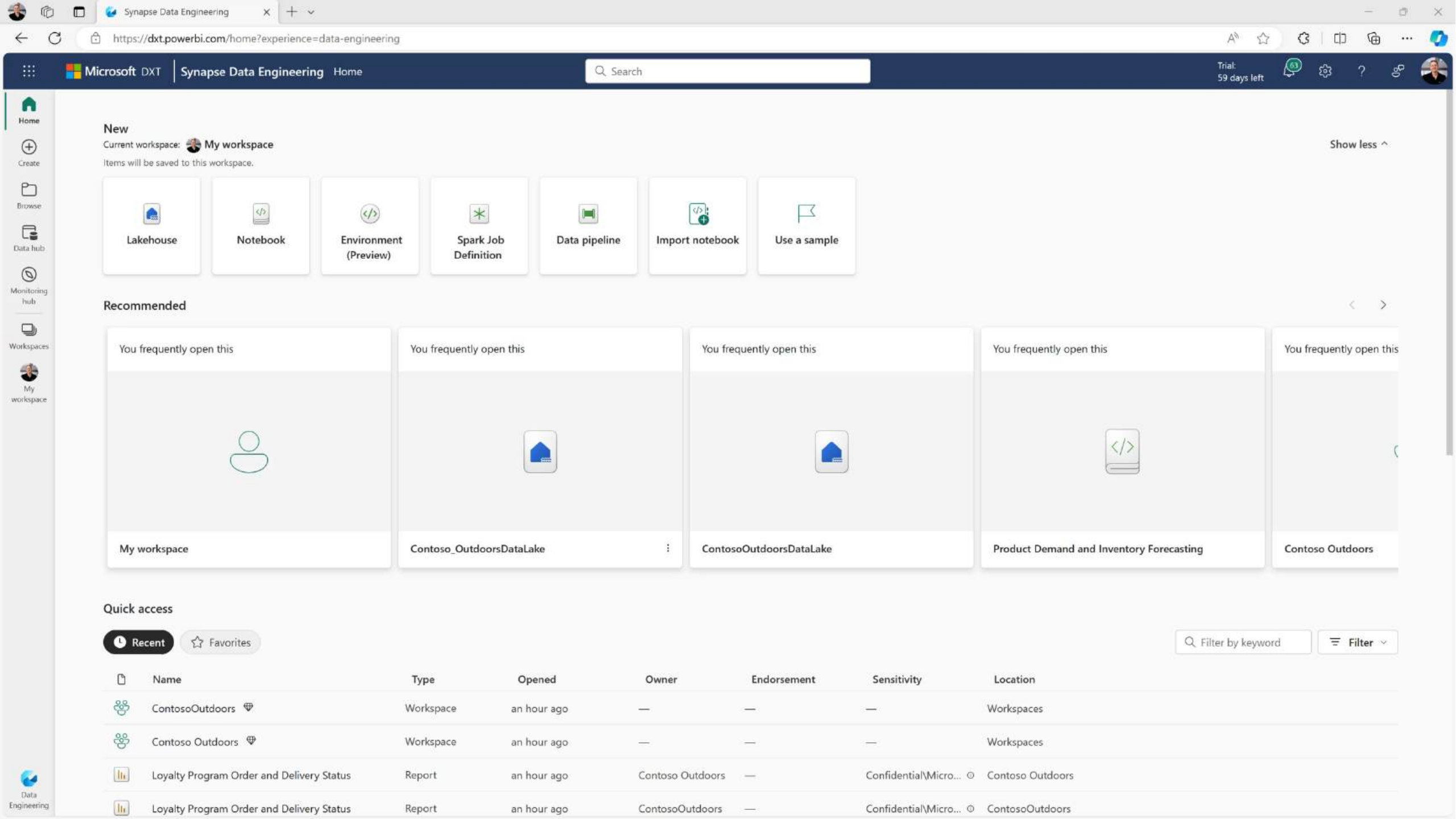
Copilot in Fabric



OneLake



Microsoft Purview



New

Current workspace: My workspace
Items will be saved to this workspace.

Show less ^

- Lakehouse
- Notebook
- Environment (Preview)
- Spark Job Definition
- Data pipeline
- Import notebook
- Use a sample

Recommended

< >

- You frequently open this

My workspace
- You frequently open this

Contoso_OutdoorsDataLake
- You frequently open this

ContosoOutdoorsDataLake
- You frequently open this

Product Demand and Inventory Forecasting
- You frequently open this

Contoso Outdoors

Quick access

- Recent**
- Favorites

Filter by keyword Filter

Name	Type	Opened	Owner	Endorsement	Sensitivity	Location
ContosoOutdoors	Workspace	an hour ago	—	—	—	Workspaces
Contoso Outdoors	Workspace	an hour ago	—	—	—	Workspaces
Loyalty Program Order and Delivery Status	Report	an hour ago	Contoso Outdoors	—	Confidential\Micro...	Contoso Outdoors
Loyalty Program Order and Delivery Status	Report	an hour ago	ContosoOutdoors	—	Confidential\Micro...	ContosoOutdoors



SQL database in Fabric

Build AI apps faster and easier than ever

Simple

**Autonomous
and Secure**

Optimized for AI

Built upon the familiar SQL Server/Azure SQL Database engine, in Microsoft Fabric



Home



Workspaces



Create



OneLake



Monitor



Real-Time



Contoso Corp



Contoso DB



ContosoDB

...



Fabric

Get data
 New Query
 Templates
 Open in
 New API for GraphQL
 Performance summary
 Copilot

Explorer

- Search
- Contoso DB
 - dbo
 - SalesLT
 - Tables
 - Views
 - Stored Proce...
 - Functions
 - Shortcuts
 - Queries
 - SQL query 1
 - SQL query 2



Query, preview, or connect your data

Interact with your data by starting a query, creating database objects with a template, or connecting the database to your app with a GraphQL API. You can also preview your data by opening a table or view.

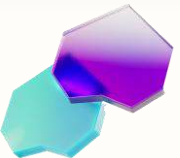
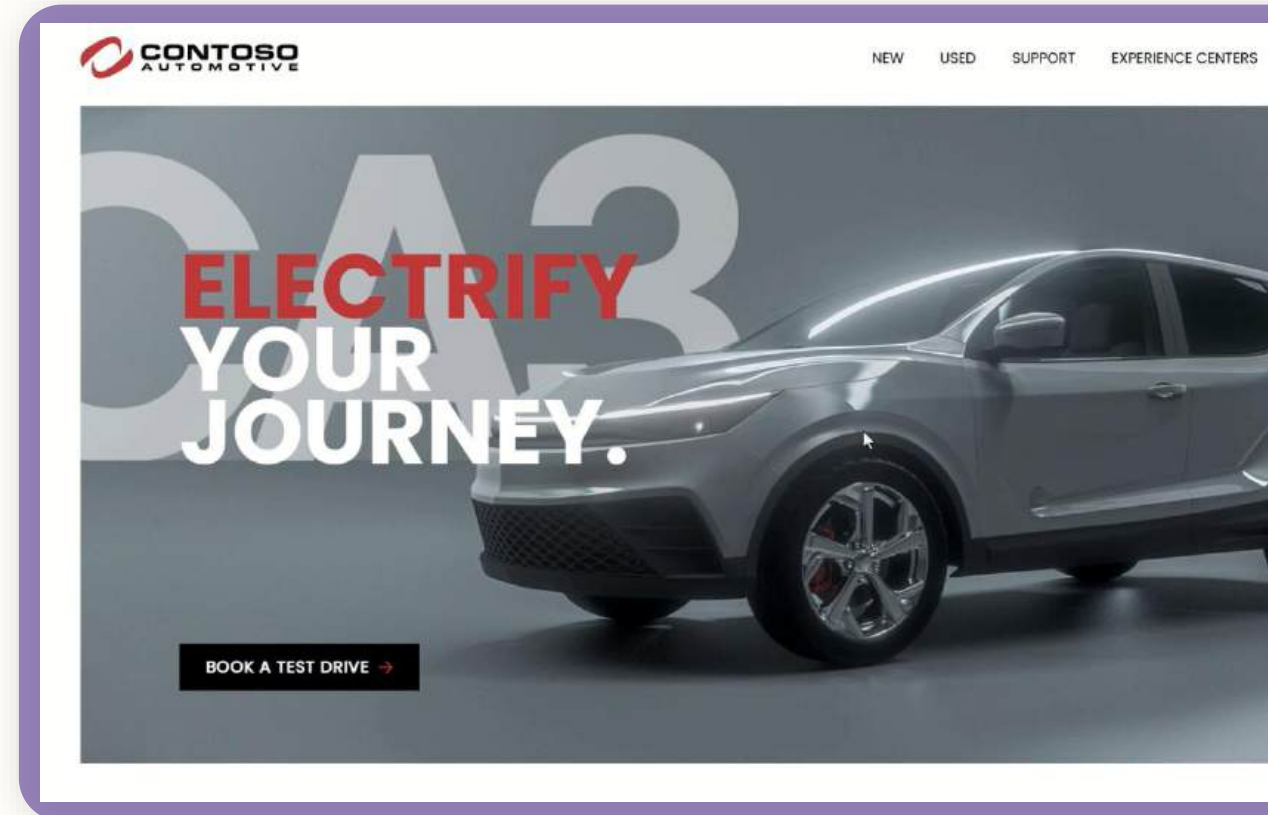
+ New

Build an AI-powered app

Here's where we put it all together –

A web application for Contoso Automotive, with AI features including:

1. AI chatbot for natural language interaction
2. Lead management by recording customer data



 **CONTOSO**
AUTOMOTIVE

PERSONALIZED TOUR

The CA3 Crossover's generous cabin space is a family's best friend on the road. With ample room for everyone, it ensures comfortable journeys, peaceful rides, and unforgettable family memories, whether it's a daily commute or you are heading off for your next family adventure.

**BOOK A TEST
DRIVE** →



TRANSCRIPT

SESSION ID: 771-5521

Do you offer a vegan leather interior for the CA3?

Madeline Kelly



Yes, we do! Based on your needs, I'd recommend our Jet Black vegan leather option. It's one of the easiest to clean, which is ideal given you often have a child in the car. It's also highly durable, designed to withstand wear and tear, making it a great choice for families.

I have a question about test driving, is that something you can help me with?

Madeline Kelly



You can ask me anything! What would you like to know about test driving with

CUSTOMER RECORD

MADELINE KELLY

Customer ID:4552 - 9518

DEALERSHIP BOOKING

Booking Type: Test Drive
Day: Today
Time: 9:00 AM
Model: CA3 LR
Vehicle ID: JXMN109186



CUSTOMIZATION PREFERENCES

The customer requested details about customizable feature, particularly color and interior materials, suggesting a high level of interest in personalization

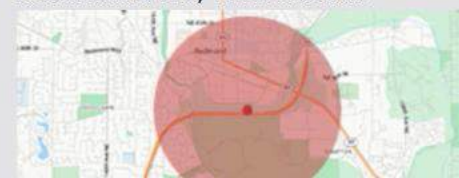
Extended Range Model	75% Positive	Advanced Drive Assistance	90% Positive
Vegan Leather Interior	100% Positive	Sport Trim Package	75% Positive
20 V-Spoke Wheels	82% Positive	Automatic Towbar	80% Positive
HD LED Headlights	98% Positive	Premium Infotainment	95% Positive

BEHAVIORAL INSIGHTS

The customer tends to research thoroughly before making decisions, as indicated by multiple questions about technical specs like torque, and safety ratings.

LOCATION PREFERENCES

Redmond Wa, 10mi Radius



CUSTOMER HISTORY

TYPE	LOCATION	DETAILS
Enquiry	Online	CA3 Enquiry →
Enquiry	Online	CA3 Enquiry →
Service	Service Cent...	90 mile servi... →
Service	Service Cent...	90 mile servi... →
Purcha...	Dealership	CVX 90 Punc... →

16:49

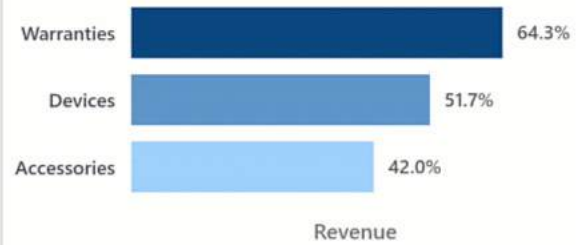
96%

Contoso

- Sales Overview
- Win/Loss Overview
- Industries Overview
- Trend Analytics
- Pipeline Trends

Revenue Won	Qualified Pipeline
\$26.44M	\$19.90M
Revenue Goal	Forecast
\$38M	122%

Closing Percentages



Revenue Open by Sales Stage



- Annotate
- Bookmarks
- Comments
- Reset
- Pages

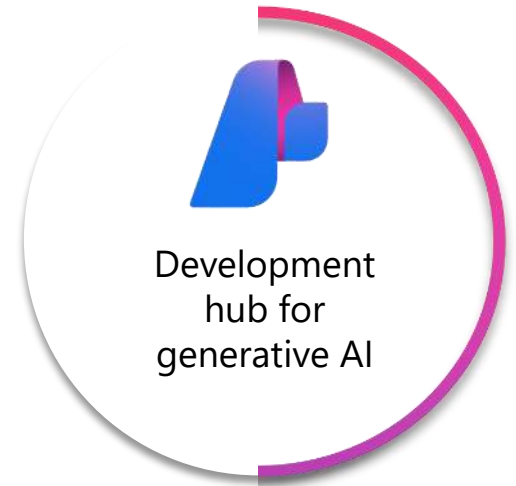
Leverage a unified **data and AI** platform to accelerate how you activate



Seamless access to consistent data quality

Efficient management with one copy of data

Simplified data integration for grounding



OneLake in Microsoft Fabric





Data Steward



Data Analyst



Business User



BI Developer



Data Engineer



Data Scientist



AI Developer



ML Engineer



MS Purview



MS Fabric



Azure AI Studio



OneLake

Product leadership

Artificial Intelligence

Figure 1: Magic Quadrant for Cloud AI Developer Services



Business Intelligence

Figure 1: Magic Quadrant for Analytics and Business Intelligence Platforms





Microsoft Fabric

19,000+

Fabric customers

>70%

Fortune 500

Synergy Between Data & AI

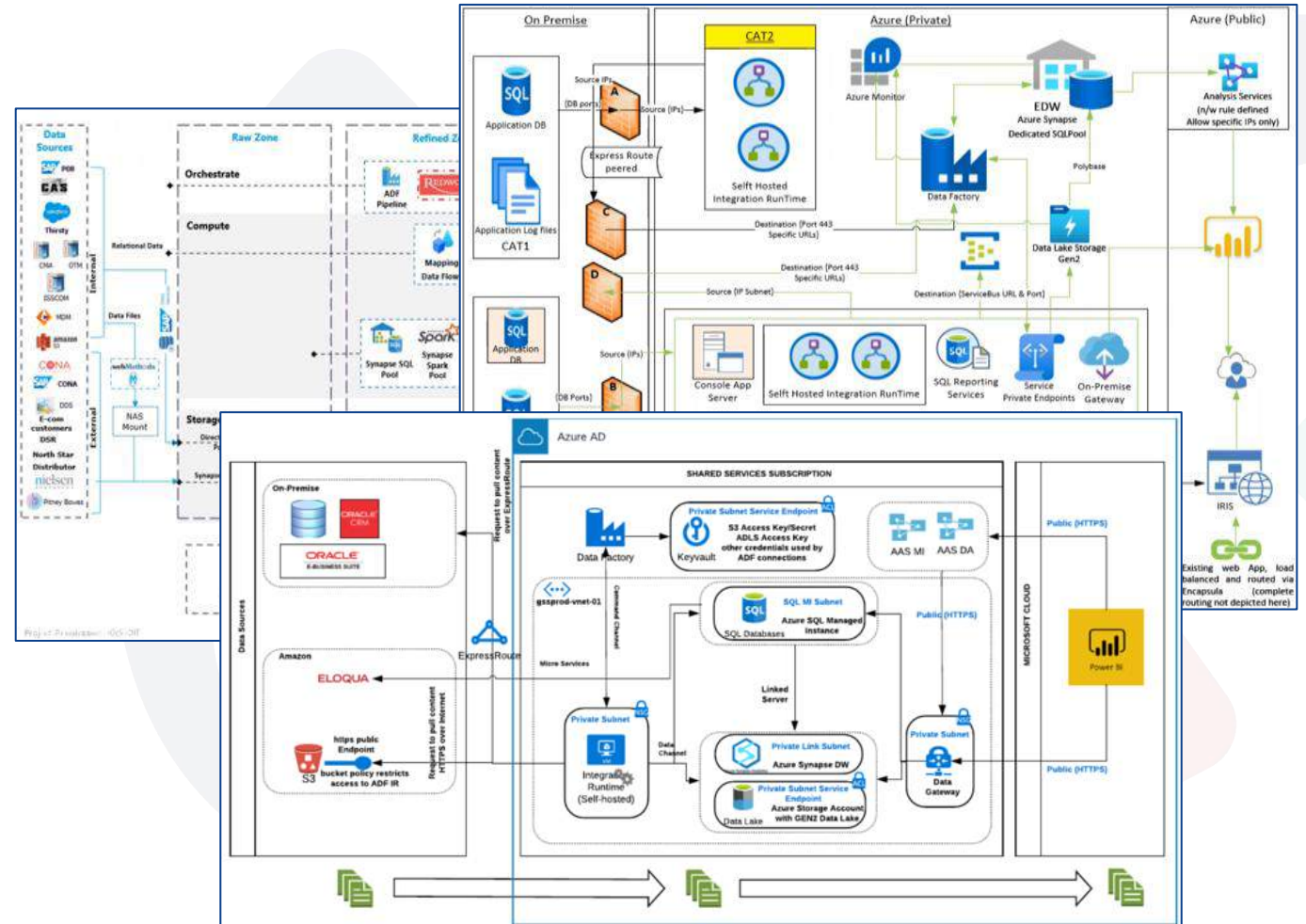
Key learnings and discoveries from Fabric projects completed in Europe

Arturs Lazdekalns | Data Analytics and Business Development Manager, Noventiq



What Has and Hasn't Changed in Data & Analytics Discipline with the Advent of Generative AI?

- On one hand, data-driven decision-making still is **highly appealing, yet challenging** dream to pursuit
- On other hand, analytics is often very **complex and fragmented**
 - Every data estate has many subsystems
 - Every subsystem need a different class of product
 - Products often comes from multiple vendors
 - Integrations are complex, fragile and expensive



Advent of Generative AI

- Generative AI is like a digital brain: premise “*garbage in – garbage out*” still applies more than ever before
- Generative AI learns and evolves from both structured and unstructured data (content)
- Generative AI appreciates external data sources as much as internal data sources
- Generative AI wave has significantly expanded horizons of possibilities (business stakeholders dream bigger dreams)
- Every Generative AI project inevitably becomes data and infrastructure project



Modern Data Problems

Learnings from Customers & Completed Projects



General Problem

Common Denominators Across Completed Projects

- **Manual Processes:** Many companies currently rely on manual data preparation and reporting processes, which are time-consuming and prone to errors.
- **Data Silos:** Fragmented data sources and lack of integration are common issues, leading to inefficiencies and challenges in comprehensive data analysis.
- **Need for Real-Time Data:** There is a significant demand for real-time data processing and analytics to support timely decision-making.
- **Diverse Data Sources:** Companies deal with a variety of data sources, including on-premises databases, cloud storage, and external data repositories.
- **Adoption of Modern Data Solutions:** There is a trend towards adopting modern data solutions like Microsoft Fabric to address these challenges and improve overall data management and analytics capabilities.

Technical Problem

Main **Technical Reasons** for Considering / Implementing Microsoft Fabric

- **Data Integration and Management:** Many companies face challenges with fragmented and siloed data sources, requiring a unified data solution to integrate diverse data sources
- **Scalability and Performance:** The need for scalable solutions that can handle large volumes of data efficiently
- **Advanced Analytics and Machine Learning:** Companies aim to enhance their data science capabilities, including real-time data processing and predictive modeling
- **Data Governance and Security:** Ensuring robust data governance frameworks and secure access controls to protect sensitive information
- **Cost-Effectiveness:** Seeking cost-effective solutions that offer high performance and ease of use
- **AI Pre-requisites:** Exploring implementation of generative AI solutions that require a solution serving a single source of truth for all data (structured/unstructured, internal/external) plugged-in AI engine
- **Expiration of Power BI Premium:** as of January, 2025 Microsoft PowerBI Premium is no longer available for purchase and all existing deployments must migrate to equivalent Microsoft Fabric capacity.

Business Problem

Main **Business Reasons** for Considering/Implementing Microsoft Fabric

- **Improved Decision-Making:** Enhancing data-driven decision-making processes and policy formulation
- **Operational Efficiency:** Streamlining data access, management, and reporting processes to reduce administrative burdens and improve efficiency
- **Strategic Growth:** Supporting strategic decision-making and business growth through better data insights
- **Enhanced Reporting:** Addressing challenges with existing reporting tools and improving the accuracy and timeliness of reports

A Silver Lining?

Solution



Analytics in the Era of an AI

- Analytics have very predictable patterns: all data challenges can be broken down into well-known and logical topics
- Microsoft already for a while has had all the products with the right scale needed to build a complete analytics system



Analytics in the Era of an AI

- Analytics have very predictable patterns: all data challenges can be broken down into well-known and logical topics
- Microsoft already for a while has had all the products with the right scale needed to build a complete analytics system
- But it remained still far to complex ...

Many Products

Different Experiences

Proprietary and Open

Dedicated and Serverless

PaaS and SaaS

Different Business Models

Steep Learning Curves

Deep Expertise Needed

High Integration Effort



Purview



Azure AI



Power BI



Synapse DW



Kusto



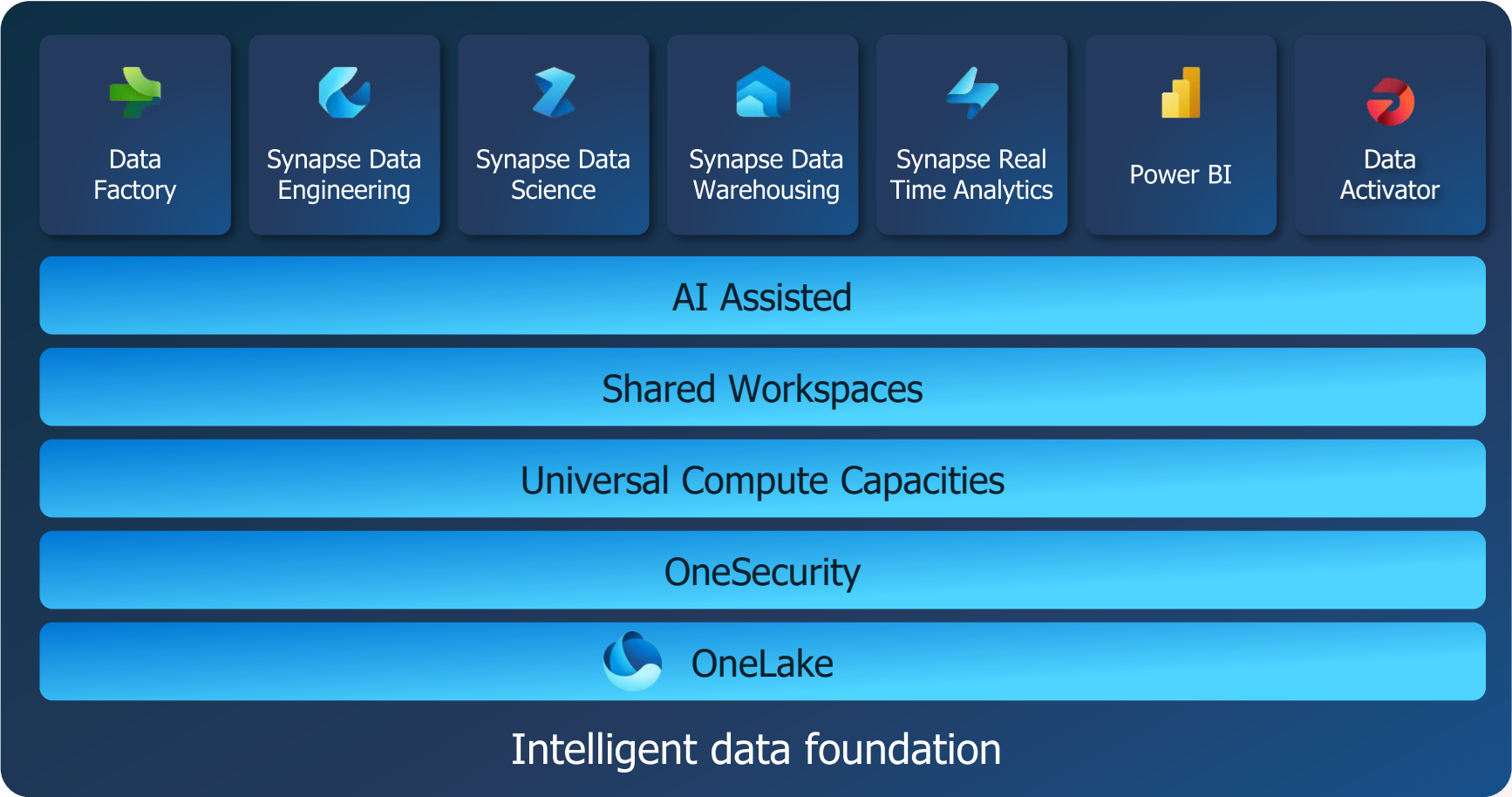
Synapse Spark



Data Factory

Introducing Microsoft Fabric

The Unified Data Platform in Era of an AI

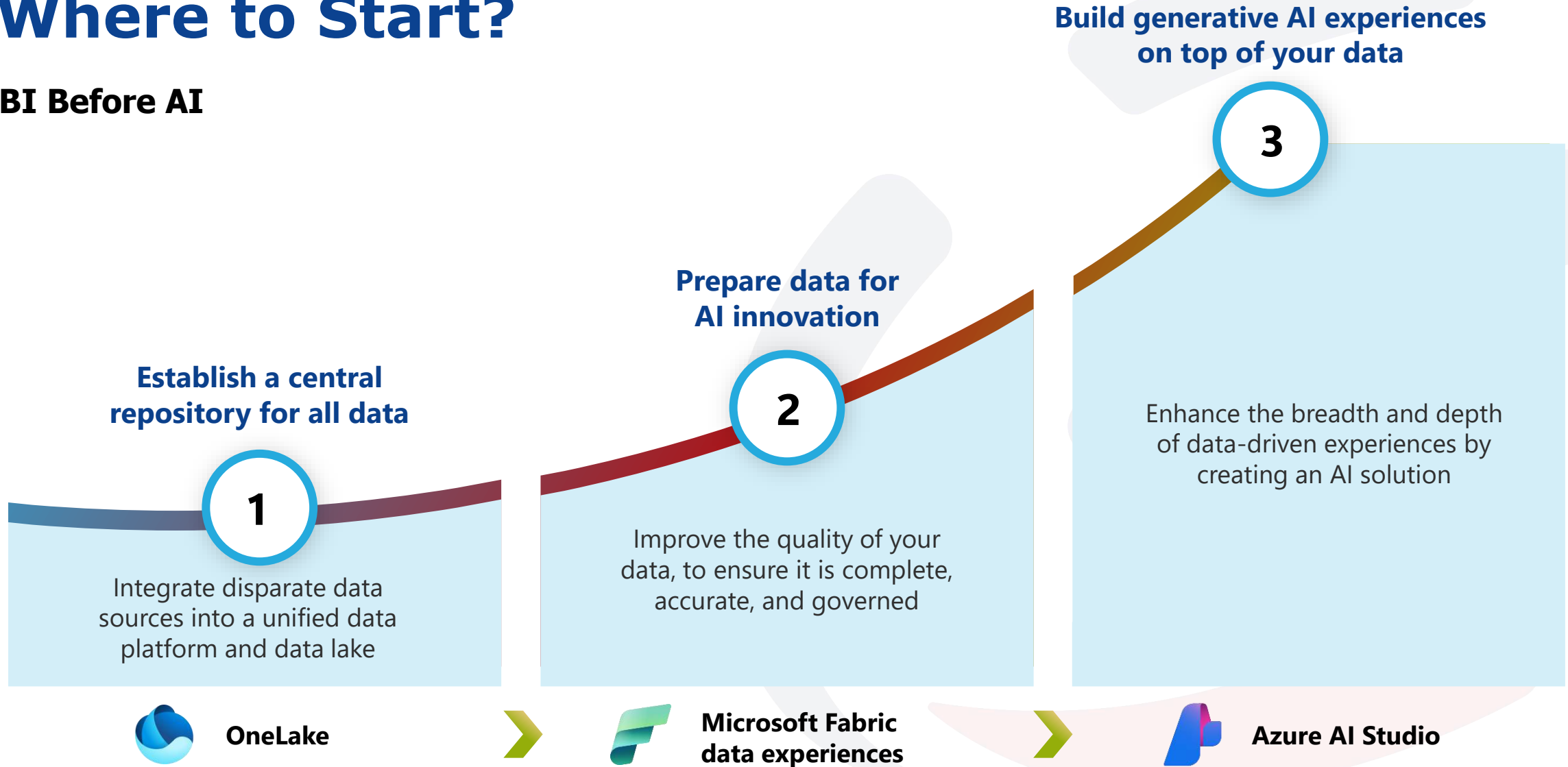


Single...

- Onboarding and trials
- Sign-on
- Navigation model
- UX model
- Workspace organization
- Collaboration experience
- Data Lake
- Storage format
- Data copy for all engines
- Security model
- CI/CD
- Monitoring hub
- Data Hub
- Governance & compliance

Where to Start?

BI Before AI



Microsoft Fabric DEMO

**Unda Paula Rismane,
Data Analytics Delivery Lead
and Data Practitioner, Noventiq**



Kávészünet

11:15 – 11:45



The Power of Data Fabric Customer Stories

**Bozo Karoly,
Cloud Solutions Architect | Noventiq**



Chief Data Officer from Media Company

Data Context: Currently, data is primarily stored in operational databases (such as Oracle, MSSQL, Postgres, MySQL) or web services (like Google Analytics, Smaly, Directo). Additionally, various auxiliary tables in XLSX or CSV format are used for analytics. Data is mainly consolidated, transformed, and analyzed using the Qlik Sense platform today.

Challenges and Needs the New Platform Should Address:

- **Data Fragmentation:** Data is scattered across different systems, making analytics challenging. The new platform should allow central consolidation of data from all sources into a data lake or warehouse, with the ability to add sources dynamically, even for non-technical users.
- **Qlik Data Loading Issues:** Qlik data loading struggles with large datasets, leading to cumbersome and error-prone processes. Automatic data refresh at predefined intervals is essential, with incremental loading for most sources. Data freshness varies (from 15 minutes to 1 day), and critical datasets (e.g., marketing consents, order data) require reliable and traceable loading.

Chief Data Officer from Media Company (cont.)

- **Real-time Web Analytics for Editorial Team:** The editorial team lacks real-time insights into web analytics. Streaming analytics (near real-time) is needed, especially for web editorial dashboards.
- **Data Preparation Efficiency:** Currently, redundant data preparation occurs within specific Qlik reports. Centralized data should be clean, consistent, and transformed (e.g., handling empty values, deduplication, date formats).
- **Flexible Data Modeling for Different Reports:** Data should be transformable and modeled based on usage needs (e.g., star schemas, data marts). Models should be reusable across different reports.
- **Business Metrics Alignment:** Business metrics vary across BI tools, lacking a unified view. Essential derived metrics should be easily accessible to external systems, with centrally managed logic (e.g., daily customer engagement score updates, churn/retention calculations). Future consumers include marketing automation systems.
- **AI/ML Potential:** AI/ML could enhance customer behavior prediction and preference analysis. Data should be AI/ML-ready, and the platform should offer relevant tools.

Head of Reporting at Bank

- **On-premise data centers** – This applies to almost all of the data used by Bi report developers and Data Scientists. The data is accessed by designated terminals where we compete for CPU and Memory resources. There we can use programs such as PowerBi Report Server for creating reports, R for data science, Python for creating sql scripts as well as machine learning etc. The use of terminals may change in the near future with the adoption of Virtual machines (not yet clear if that change would improve CPU and memory performance per user).
- **Lack of one source for truth (garbage in “gold” out)** – currently when putting together Bi reports we very often join together data that has not been constructed/normalized in a similar way or it comes from different schemas that have slightly or wildly different table logics etc (please read also the real life example below).
- **Problems with data availability** – We usually do not have access to live schemas/tables and therefore rely on Vertica data warehouse where most of the information from live tables is copied every night by the DWH Team. They have also created some transformation tables that try to put the raw live data together in a more usable way. However as of today (and due to limited time and human resources on their side) only the most urgent data has been separately transformed like this, but the pressure to create new and more complex table joins is growing constantly (please read the real-life example below).

Head of Reporting at Bank (cont.)

- **Memory issues for PowerBi refreshes** - Basically in PowerBi under Power Query we are doing similar things that the Bronze and Silver layer of the Medallion Architecture of MS Fabric is doing to get in semi-raw data and then transform and clean it before its ready to be joined up and visualized. This increases file sizes and also has an effect on load times as well as potential lock outs when competing for memory during automatic refresh times. Currently we have already reached max file size with several reports that seems to be around 1,5GB and would take up to an hour to refresh (if there are no memory issues or lock problems). With the need to refresh most reports before noon the refresh times also overlap quite often (putting additional pressure on memory availability).
- **Too many reports with similar underlying data** – with the use of Bi Report Server we lack the possibility to create dashboards (or mirroring a graph/table from one report to another) from a single dataset. Instead for every report that the end-user has ordered we very often have to create a new dataset file due to different aggregation levels or security reasons (for accessing detailed information). This has significantly impacted the number of reports that we have generated over time. Basically at this point in time we may generate a completely new report even out of not knowing whether we have already covered the same thing in another report. This ends up us querying the same underlying data over and over again.

The Approach

Data governance, data security, data management questions answered

- Data integration?
- Access Controls?
- Authentication Mechanisms?
- Data Encryption?
- Backup and Disaster Recovery?
- Data Security?
- Master Data Management?
- Compliance and Governance?
- Change History/ Audit logs



Based on tailored customer needs we provide certain Microsoft sponsored programs

- **Azure Innovate: AI Apps Pilot/POC**
- **Azure Innovate: Analytics Pilot/POC**

Where these questions are answered

Data & Analytics Service Portfolio

- **Microsoft Fabric related**

- Microsoft Fabric Workshop
- **Microsoft Fabric POV** →
- Microsoft Fabric Deployment
- Microsoft Fabric Admin Support
- Microsoft Fabric Admin as a Service

- **Microsoft PowerBI related**

- PowerBI Reports as a Service
- PowerBI Report Creator Trainings
- PowerBI End-User Trainings
- PowerBI Admin Support

- **Other**

- Data Estate Assessment Service
- ITAM Data & Analytics Reporting Services

Fabric experience* overview

- Fabric public availability since Nov '23
- 22 projects (Apr '24 – Feb '25)
- 4 countries: Hungary, Romania, Estonia, Latvia
- 3 segments: government, commercial, education
- 15+ industries: construction, education, energy, finance, insurance, logistics, manufacturing, media & publishing, ministry, municipality, real estate, retail, telecommunications, transportation, utilities and more
- 6 data categories: financial, HR, IT support, sales, operational, marketing
- POV to Deployment rate: 41% (9/22 customers)

*Squalio (Noventiq Europe) Analytics Delivery Team

Microsoft Fabric Proof of Value (POV)

Estimated cost: Free of Charge*



Target audience

Have more data and data sources than you can count?

You have an idea how to leverage this data with AI solutions but first need to get it one place?

If so, this offer will help you explore your options and demonstrate how unified data estate would apply in your organization!



Benefits

- **Try out** Microsoft Fabric in your own Azure tenant
- Have a **trial run of the full data process** from ingestion to visualization with a sample of fake or production data
- Explore **use cases of your data** for analytics
- Receive **Solution Architecture Report** – summarized plan for Fabric capabilities in your organization



Process

- **2-month engagement from kick-off**
- Microsoft Fabric sandbox deployment
- Summary of your critical data sources
- Use case discovery session (remote)
- Solution Architecture Report presentation (remote)



Deliverable

Solution Architecture Report

- Prioritized list of use cases
- Current data estate considerations
- Technological dependencies
- Cost estimates

* Limited offer for selected customers only (subject to Microsoft Azure Innovate program terms and conditions).

Engagement Details

Scope of Work (SOW)

- Configure and set up the Microsoft Fabric environment
- Establish connections up to 3 data sources using connectors
- Develop batch data pipelines for up to 6 tables per DB for automated data ingestion and transformation
- Incremental load will be made for 1 table per DB (if applicable)
- Implement basic data quality checks and cleansing processes
- Store data in OneLake for centralized access and management
- Create 1 interactive report in PowerBI to visualize key insights
- Customer will provide analytical and methodological support to describe tables, views, aggregates, etc.

Deliverables

- A high-level architecture design of implemented solution
- Successfully deployed Microsoft Fabric solution on customer's Azure tenant / subscription
- Production deployment costs estimate
- Deployment roadmap
- Knowledge Transfer Workshop

Use Case: Public transportation company in Baltics

Project Purpose

A Baltic public transport company struggled with fragmented, manual data reporting. Deploying Microsoft Fabric aimed to centralize data, improve efficiency, and support data-driven decision-making.

Challenges Faced

- **Fragmented Data:** Manual processes led to inefficiencies and inaccuracies.
- **Scalability Issues:** Existing systems couldn't handle increasing data demands.
- **Integration Needs:** Data from SharePoint, an accounting API, and on-premises SQL Server required seamless consolidation.
- **Security & Governance:** Strengthening role-based access control (RBAC) and governance was necessary.
- **No DWH experience:** Company had no people with data engineering skillset and competencies.



Use Case: Public transportation company in Baltics

Solution Architecture

- **Fabric Compatibility:** Ensured seamless migration from manual reporting to a structured data model.
- **Medallion Architecture:** Implemented Bronze (raw), Silver (cleansed), and Gold (enriched) data layers.
- **Data Processing:** Used Dataflow Gen2 and Copy Activity for ingestion; stored data in Lakehouses and Warehouses.
- **User Roles & Tools:** Defined Administrators, Engineers, Analysts, and End Users; leveraged Power BI, Azure Portal, and Fabric Admin tools.
- **Security & Governance:** Adopted Fabric Domains, RBAC, and planned Microsoft Purview for enhanced governance.
- **Upskilling Team:** BI Report Creator upskilled to Data Engineer managing Fabric environment

Summary:

Microsoft Fabric **streamlined data management**, enhancing efficiency, security, and scalability. The **centralized ecosystem** enabled better decision-making, ensuring the company could effectively **manage growing data needs** while maintaining operational excellence.

Use case: Hungarian energy company

Project Purpose

A Hungarian energy company transitioned to Microsoft Fabric F SKU to address reporting challenges from the discontinuation of Power BI Premium per Capacity P1 licenses. The goal was to optimize resource allocation and improve performance.

Challenges Faced

- **P SKU Discontinuation:** New purchases stopped on July 1, 2024; non-EA customers must transition by January 1, 2025. A smooth migration was essential.
- **Performance Issues:** A large 10+ GB semantic model caused slowdowns, consuming P SKU resources during peak hours.
- **Resource Allocation:** Fixed P SKU capacity led to inefficiencies and delays in handling high demand.



Use case: Hungarian energy company

Solution Architecture

- **Fabric Compatibility Review:** Migrated workspaces to Fabric SKU, keeping advanced models separate to prevent impact.
- **Provisioning:** Implemented Fabric F64 for scalability and optimal reporting performance.
- **Architecture:** Deployed a single Fabric Tenant with one F64 and one P1 Capacity, ensuring efficient resource use.
- **Security & Governance:** Maintained structured access management across domains, workspaces, and user roles.
- **User Roles:** Defined Administrators, Analysts, Report Builders, End Users, and Domain Owners for efficient collaboration.
- **Cost Management:** Used Microsoft Fabric Capacity Metrics to optimize F64 capacity usage.

Summary:

Microsoft Fabric provided a **scalable, cost-effective reporting solution**, ensuring a smooth transition from Power BI Premium per Capacity P1 while **optimizing performance and resource management.**



**Köszönjük, hogy
eljöttetek!**

