

The Most Important Takeaways From #FabConEurope 2025

Hosted by:

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Today's Presenters



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Practical Information

The webinar is being recorded. Recording and slides will be sent after the session.

Q&A will be held at the end of the presentation.

Your Partner for Business Impact with AI & Data

Our mission

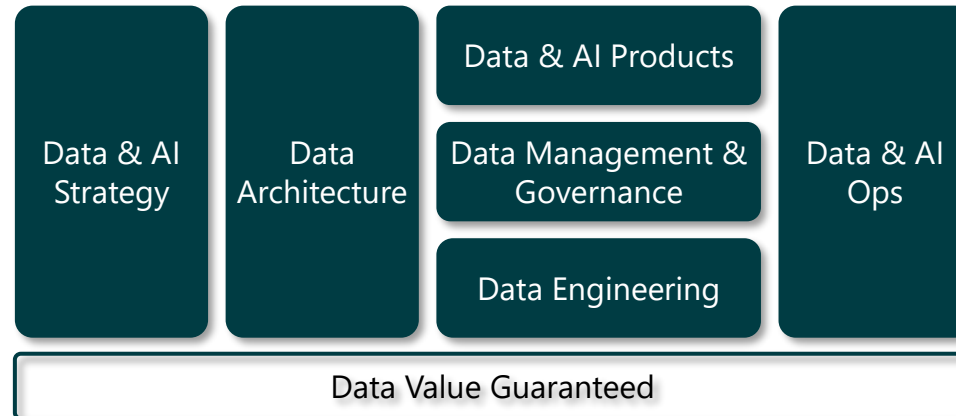
We empower **decisions, actions, and change** through people and data

Strong team

200+ data & AI experts

Copenhagen, Aarhus & Bucharest

Comprehensive capabilities for successful AI & data transformation



Recognized thought leader



Podcast on data, AI, and digital transformation



Yearly conference with 500 attendees



Webinars & events



Microsoft MVPs

A well-built Microsoft proficiency

Fabric Featured Partner

Cloud Solution Provider



Specialist Analytics AI and Machine Learning



Substantial track record of successful AI & data implementations



Selection of technology partners



Agenda

Introduction

Productivity Improvements for Developers and Admins

From Preview to Generally Available

Do More With Your Platform

3 Key Takeaways



Developer & Admin Productivity

Updates which improve quality of life
with Microsoft Fabric



Productivity Updates Demo Time!

The screenshot displays the INSPARI interface with two 'Explorer' panels and a file list on the right.

Left Explorer Panel:

- Buttons: **Add data items**, **Manage Connections**
- Data items** (selected) and **Resources** tabs.
- Items** section:
 - First_test
 - Tables
 - dbo
 - year_2017
 - green_tripdat...

Right Explorer Panel:

- Add lakehouses** button.
- This lakehouse** section:
 - schemaLH
 - Tables
 - dbo
 - dimension...
 - dimension...
 - dimension...
 - dimension...
 - dimension...
 - dimension...
 - fact_sale
 - Files
- Reference lakehouses** section:
 - PublicHolidays_551
 - Tables
 - publicholidays
 - Files
 - Sample_lakehouse_382
 - Sample_lakehouse_393
 - samplelh
 - WWIImporter_756

File List (Right):

AviWS > PublicHolidays_551 > Files > **sample_datasets**

Name
city_safety_seattle.csv
nyc_taxi_green_2020_11.parquet
nyc_taxi_yellow_2020_1.parquet
public_holidays.parquet
us_population_county_area.csv

MCP Servers - Both for Power BI and Fabric

MCP Fabric (Public Preview)

- Local development efficiency boost
- Fabric CLI (open source)
+ MCP for automization

Power BI Modelling MCP (Private Preview)

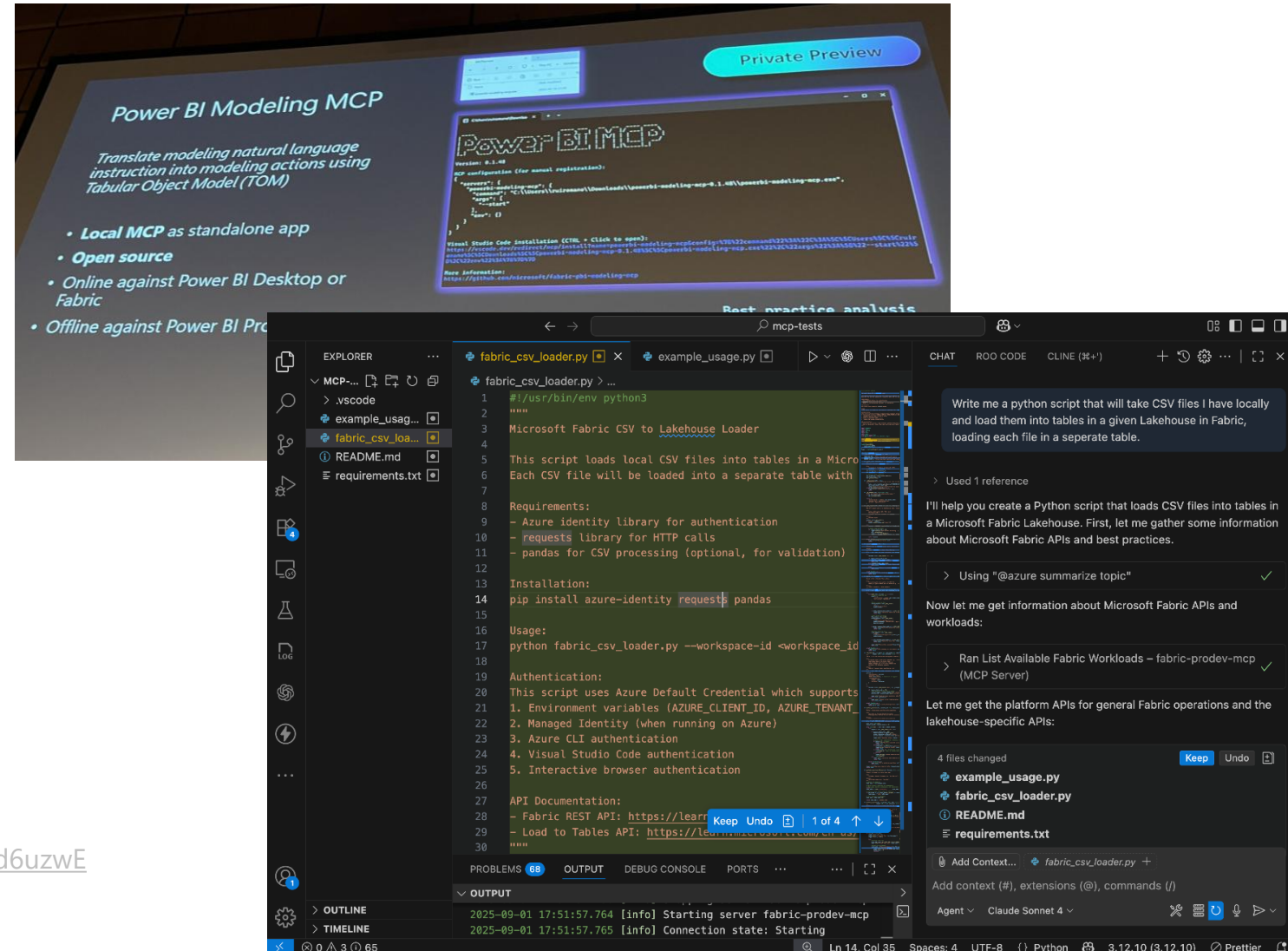
- Query your pbip model through prompts
- "Bulk changes", BPA etc.

Coming up

- Fabric **Execution** MCP
- Power BI modelling MCP (Public Preview)

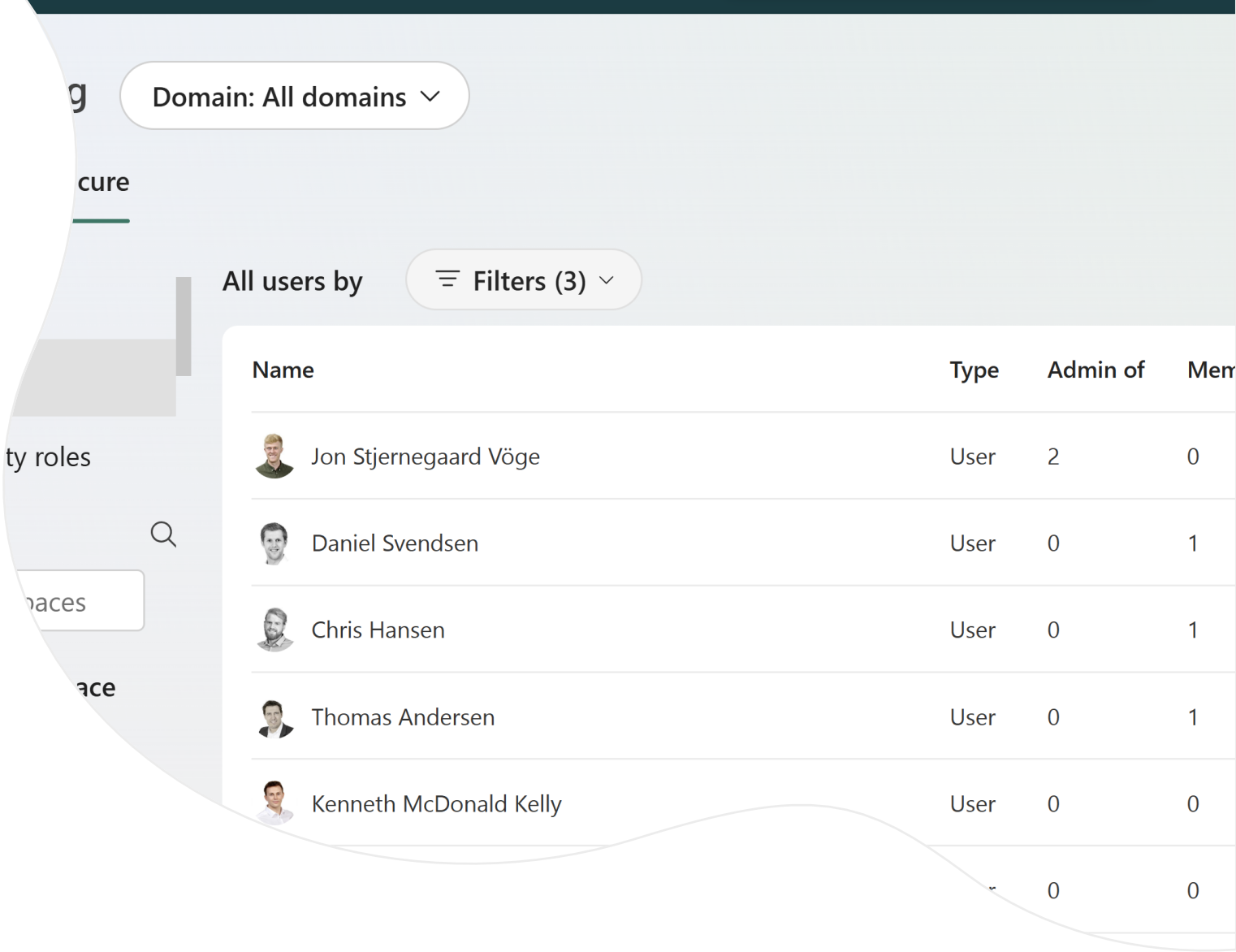
MCP reference: <https://github.com/microsoft/mcp>

PBI MCP Private preview sign-up <https://forms.office.com/r/0MXYd6uzwE>



Huge Platform, Admin & Governance Improvements

- OneLake Security Public Preview
- OneLake Catalog Secure tab Public Preview
- OneLake Catalog Govern tab GA
- Capacity Health in Capacity Metrics App
- Workspace Level Private Link Public Preview
- Workspace Level Surge Protection Public Preview

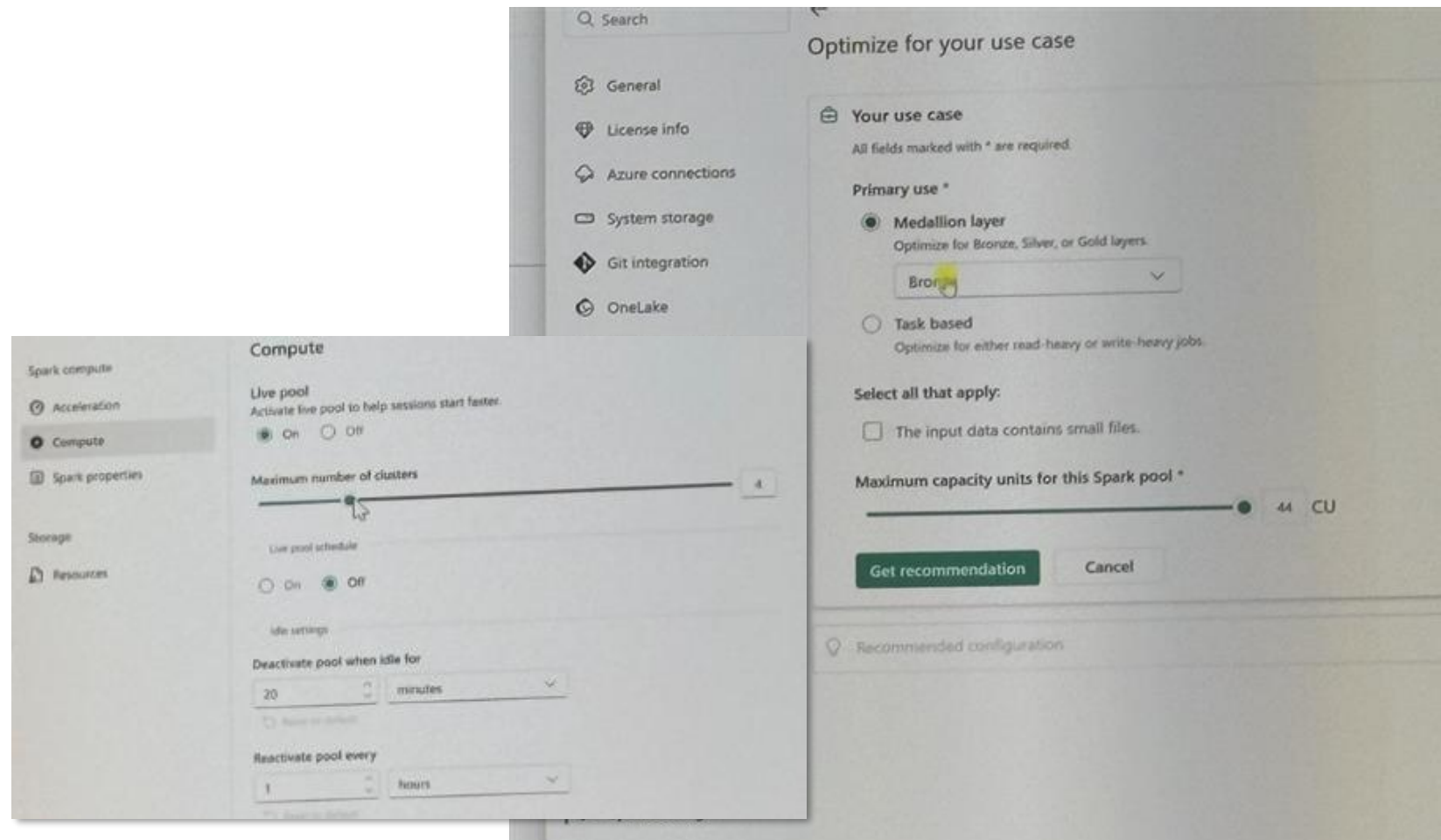
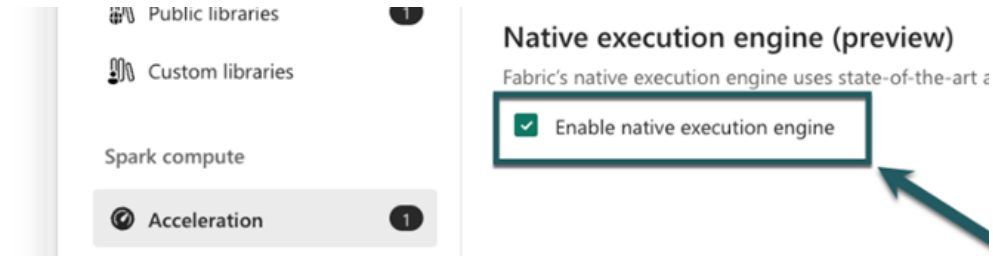


Performance Improvements

Native Execution engine upgraded

Coming soontm:

- Environment and Spark pool start-up time
- Custom Live pools (instant start times)
- Ressource profiles



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From Preview to Generally Available

Updates which make Microsoft Fabric
more ready for use in production



CI/CD and Variable Libraries

Native Fabric Deployment Pipelines

- Fabric deployment pipelines now support ALL items + new design including comparison before deployment
- Variable Libraries enable parameterization and customization for deployment and across environments

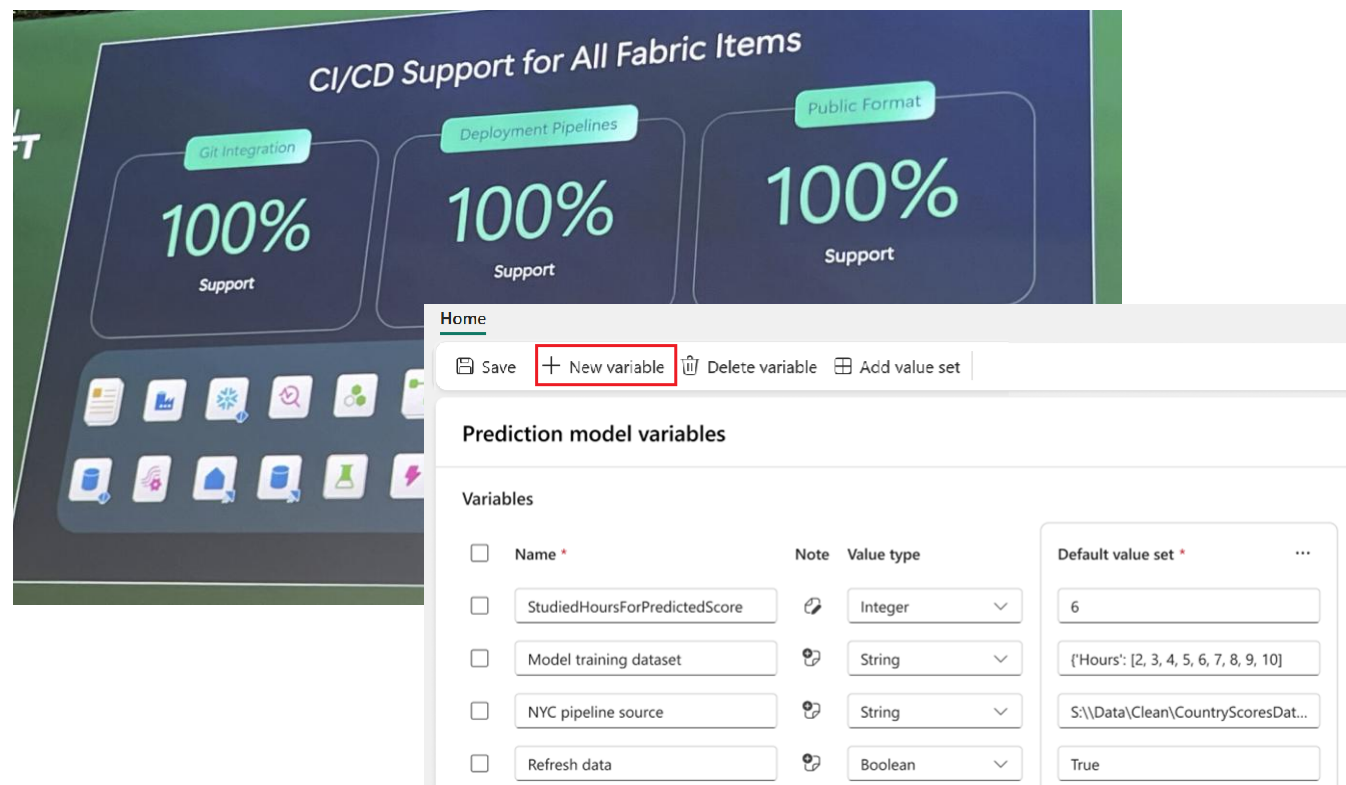
What's the verdict?

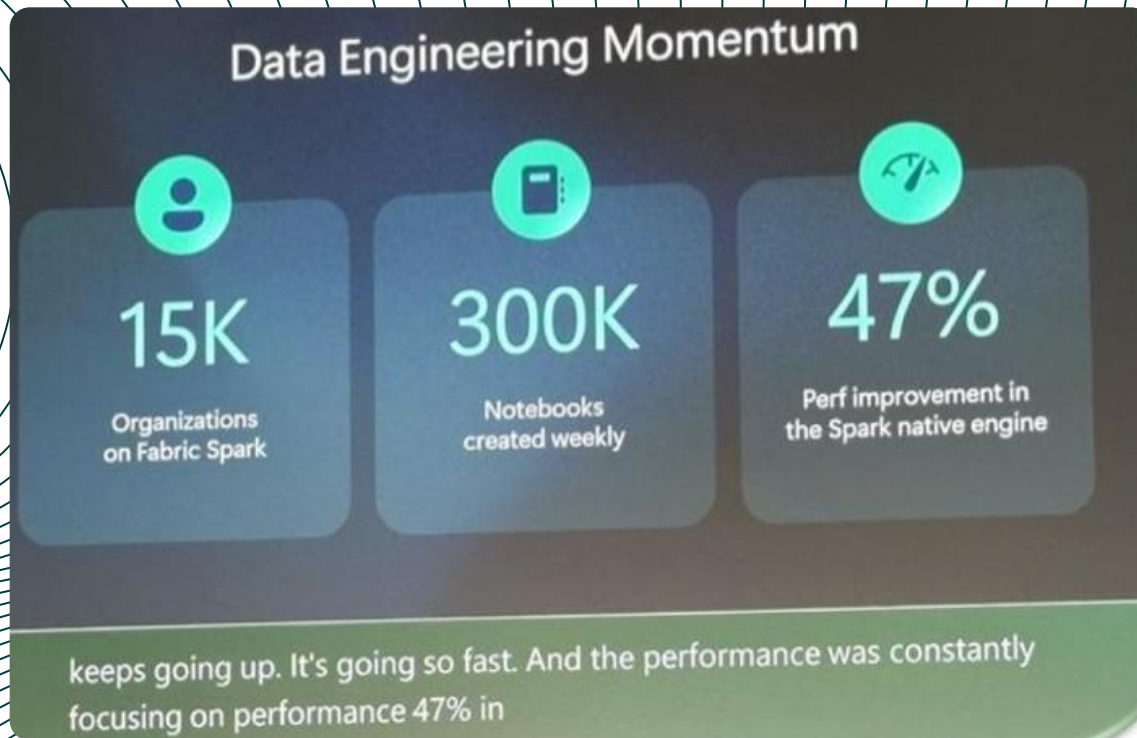
- Good for simple use cases

Alternative: Azure DevOps Pipelines w/ Fabric-cicd

- Python Library: Fabric-CI/CD
- Get inspired!

Fabric CI/CD: : <https://github.com/microsoft/fabric-cicd>





Data Engineering Innovation

Improved Environment

Variable Library

Python Notebooks

User Data Functions

Power BI Features That We've Been Waiting For

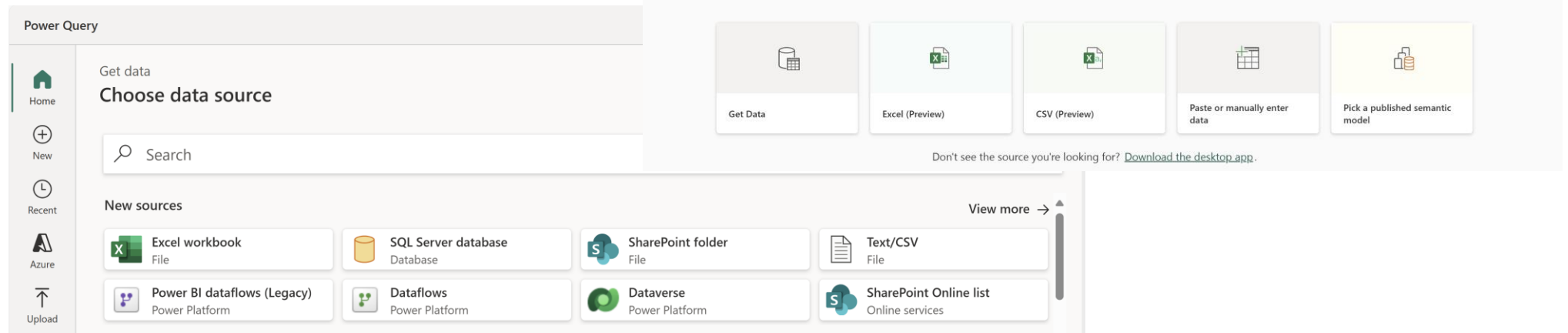
Web Modelling (Power Query + Create/Edit Semantic Models in Web)

Live Edit DirectLake models in Desktop

TDML View

Download PBIX of models altered by XMLA

New Button + Card Visuals



Crucial Security Features Also Included

Data Loss Prevention Policies

Purview Protection Policies

Default Sensitivity Labels for Domains

Fabric Trial:
20 days left

1

Type	Owner
i Mirrored database	AdminUser01
Semantic model (default)	AdminUser01
Semantic model (default)	AdminUser01
Eventhouse	AdminUser01
i Semantic model	AdminUser01
i KQL Database	AdminUser01

Sensitive info found

Customer_Information

We automatically detected policy issues with this data on 3/11/25.
[Learn more about data protection policies](#)

To find sensitive info in your data, open this KQL database. Spotted a mistake?
Report an issue to the admin, or override the policy label.

i

 Policies

Your org identified these policy issues in the data.

This item contains PII data and must not be shared outside the organization.

Issues found: Credit Card Number.

[Report an issue](#) [Override](#)

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Do More With Your Platform

Updates which set Microsoft Fabric apart from other cloud platforms

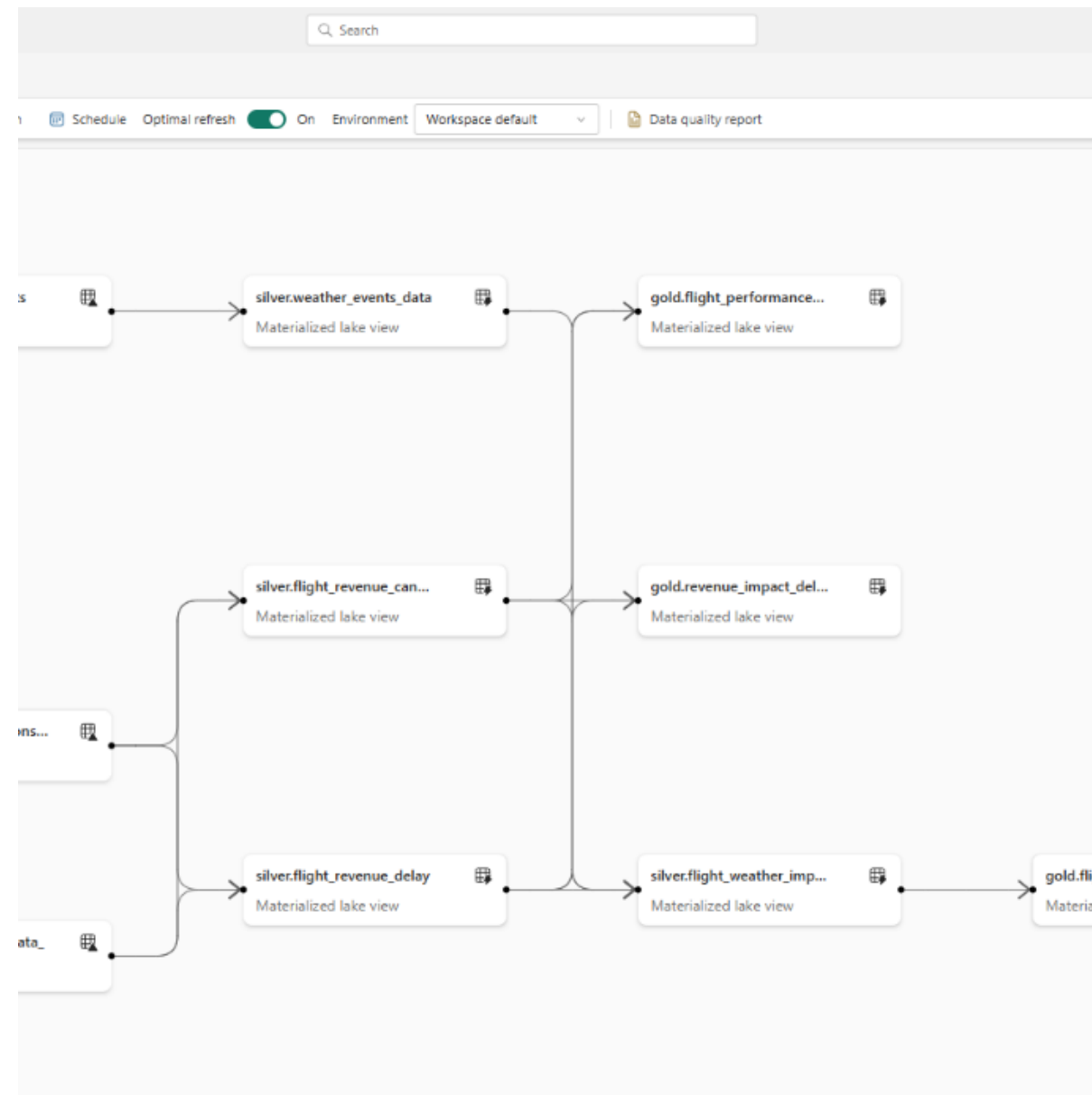


Materialized Lake Views

- Almost GA!
- Works on schema-enabled lakehouses (also almost GA)
- Now supports Optimal Refresh (incremental, full, or no refresh)
- Can be called from both the UI and programmatically through API (to trigger or stop runs)
- Lineage extends to other sources (even non-schema-enabled)
- Environments available – performance benefits (NEE)

Coming soon™:

- PySpark-defined MLV's
- Improvements coming continuously
- Refresh select MLVs through API (can be done today through parameterized notebooks)
- Cross lakehouse integration



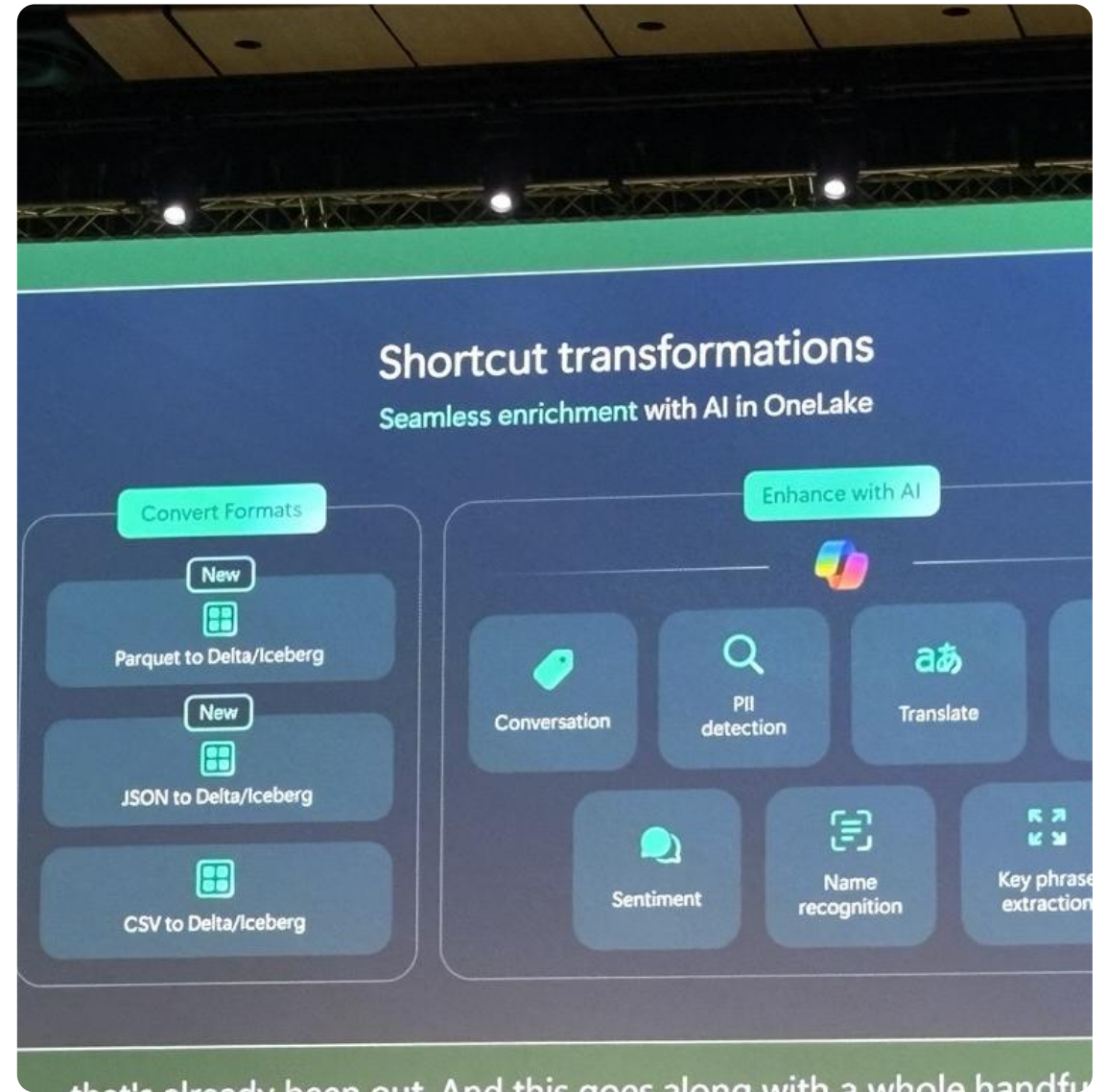
Shortcut Transformations

CSV already live

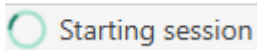
JSON and parquet!

Dramatically simplify ingestion flows

Shortcut transformations for AI (sentiment analysis)



Fabric Data Engineering - What to Be Excited About?

- Environment startup / publish
 - "Starting session..." 
- High concurrency improvements (5→50). Hierarchical debugging
 - Better experience for high concurrency during runs
- Schema-enabled lakehouses – (*Almost GA*)
- Spark profiles
 - Enables easier customization of profiles for respective loads
- UDF for notebooks
 - A structured way for invoking functions
 - Works with dataframes as input
 - Alternative to wheels
- .gitignore For CICD workflows

... and much more.



Translytical Taskflows

Demo Time!

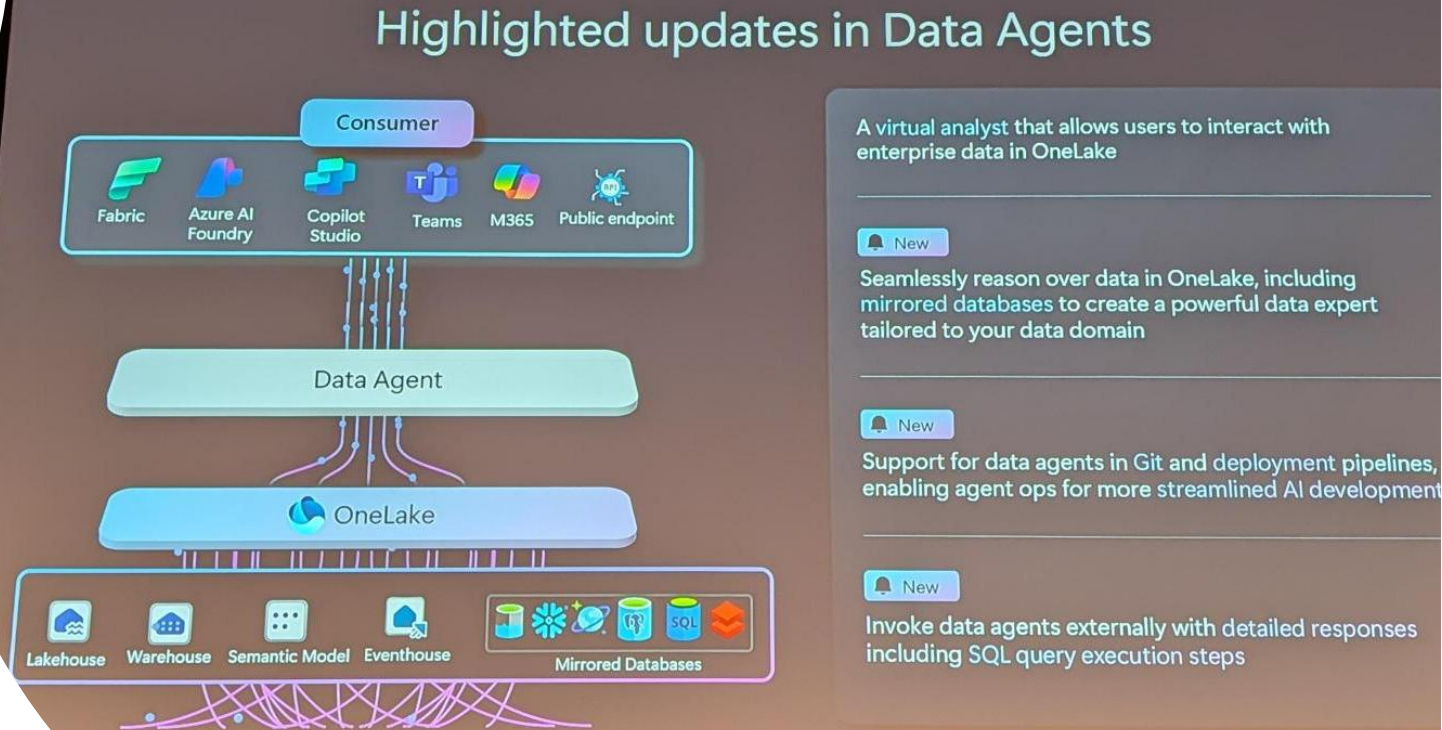
Data Agents are Growing Up

Better instructions for Data Agents

Mirrored DBs now available in Agents

Unstructured data now available in Agents

Consume through Fabric, Copilot Studio, AI Foundry, or custom solutions via Public Endpoint for Agents



Real Time Intelligence Innovation

Anomaly Detector (*new item*)

Maps (*new item*)

Graph (*new item*)

Event Schema Sets (*new item*)

Operations Agent (*coming soontm*)



Real-Time Intelligence in Microsoft Fabric

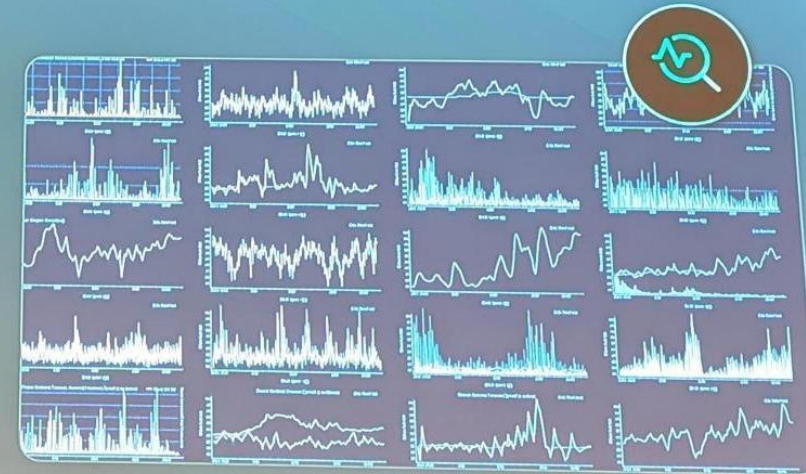
Public Preview

Anomaly Detector

Discover the signals that matter but are easily overlooked in a sea of data using no-code tools, no data science expertise required

Continuously scans your events 24/7 as they arrive in Eventhouse for anomalies

Automatically trains the anomaly detection model to your operations' data



Power BI is Making Serious Waves in the Community

User Defined Functions (UDFs)

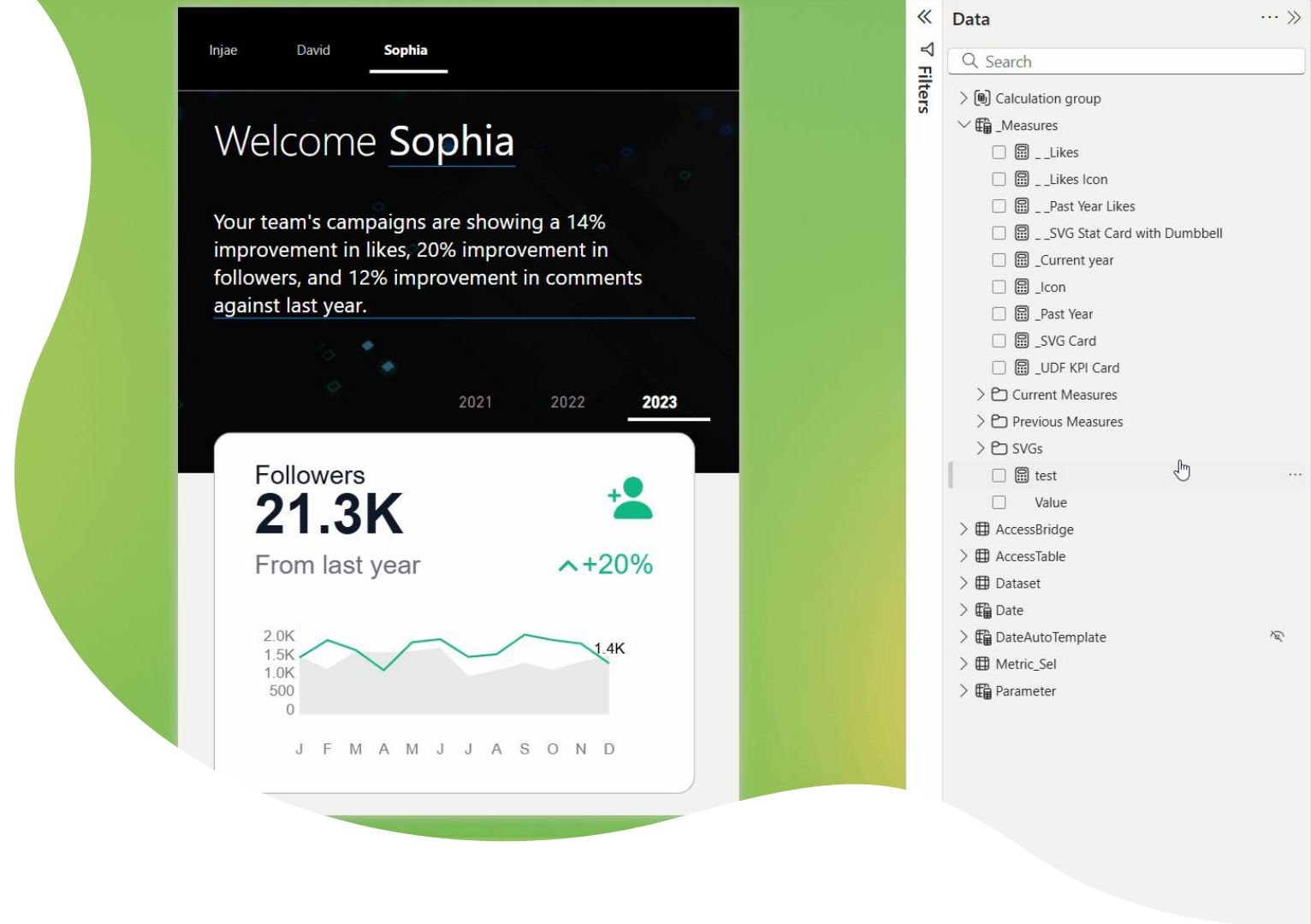
Custom Calendars

DirectLake + Import in the same model

Performance Analyzer available in Web

Prep for AI soontm available in Web

Organizational Themes



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3 Key Takeaways

Our most important messages for you



Our Three Most Important Messages

1

The platform feels increasingly better to work with as a developer and admin

2

The platform is increasingly enterprise ready, and ready for production use in organizations of all sizes

3

The platform still sees significant cutting-edge innovation setting it apart from competitors



The Next Steps in Your Fabric Journey

A Fabric Playbook approach to establishing your Fabric Foundation



Fabric Playbook: Fabric Strategy & Operating Model

The following slides provide a general introduction to the process of creating a Fabric Playbook.

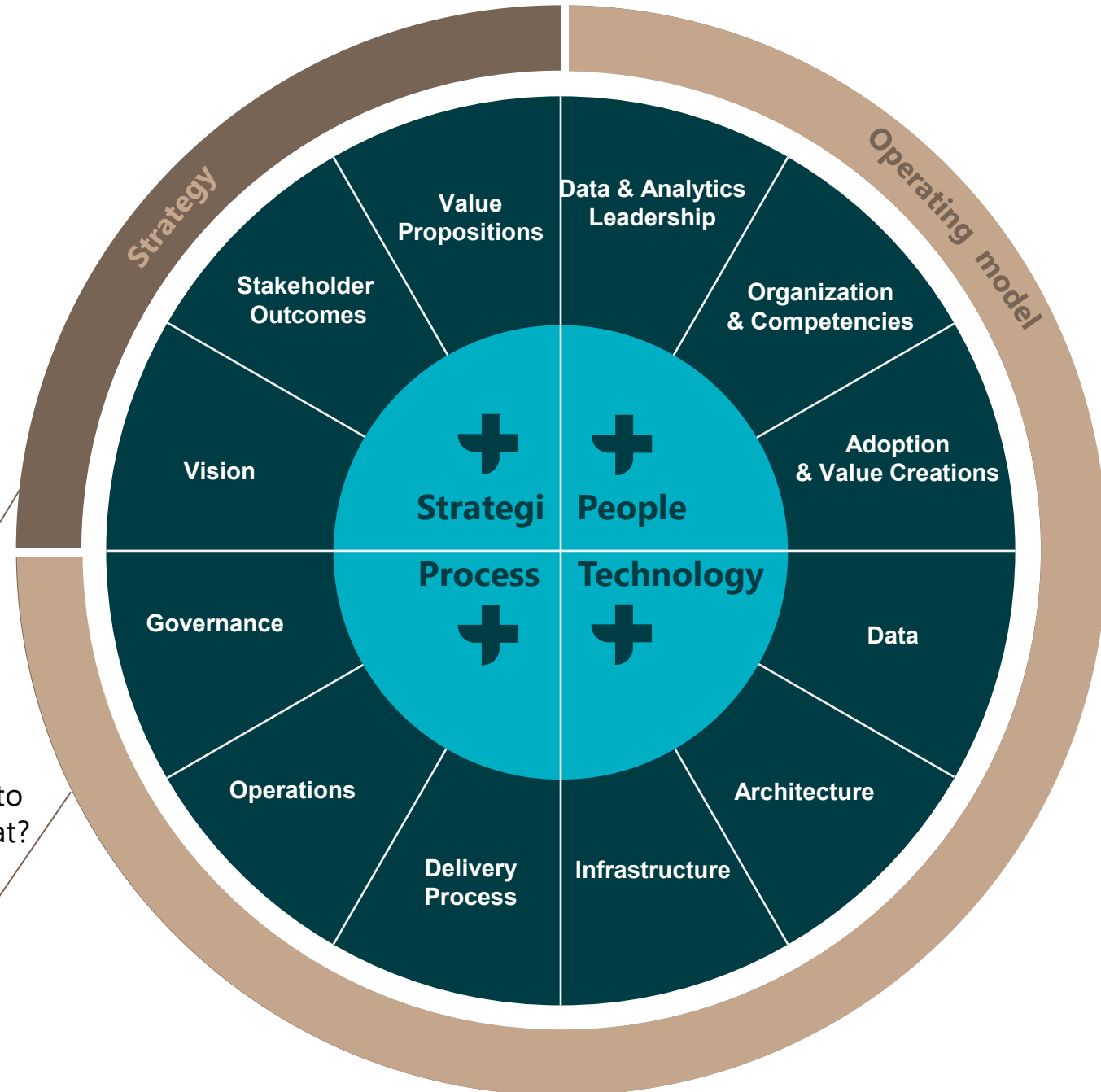
It will take you through the format, collaboration and effort needed by our organization.

It gives a brief insight into the four main areas and their outputs.

This short introduction also helps facilitate and target the areas that are of most importance.

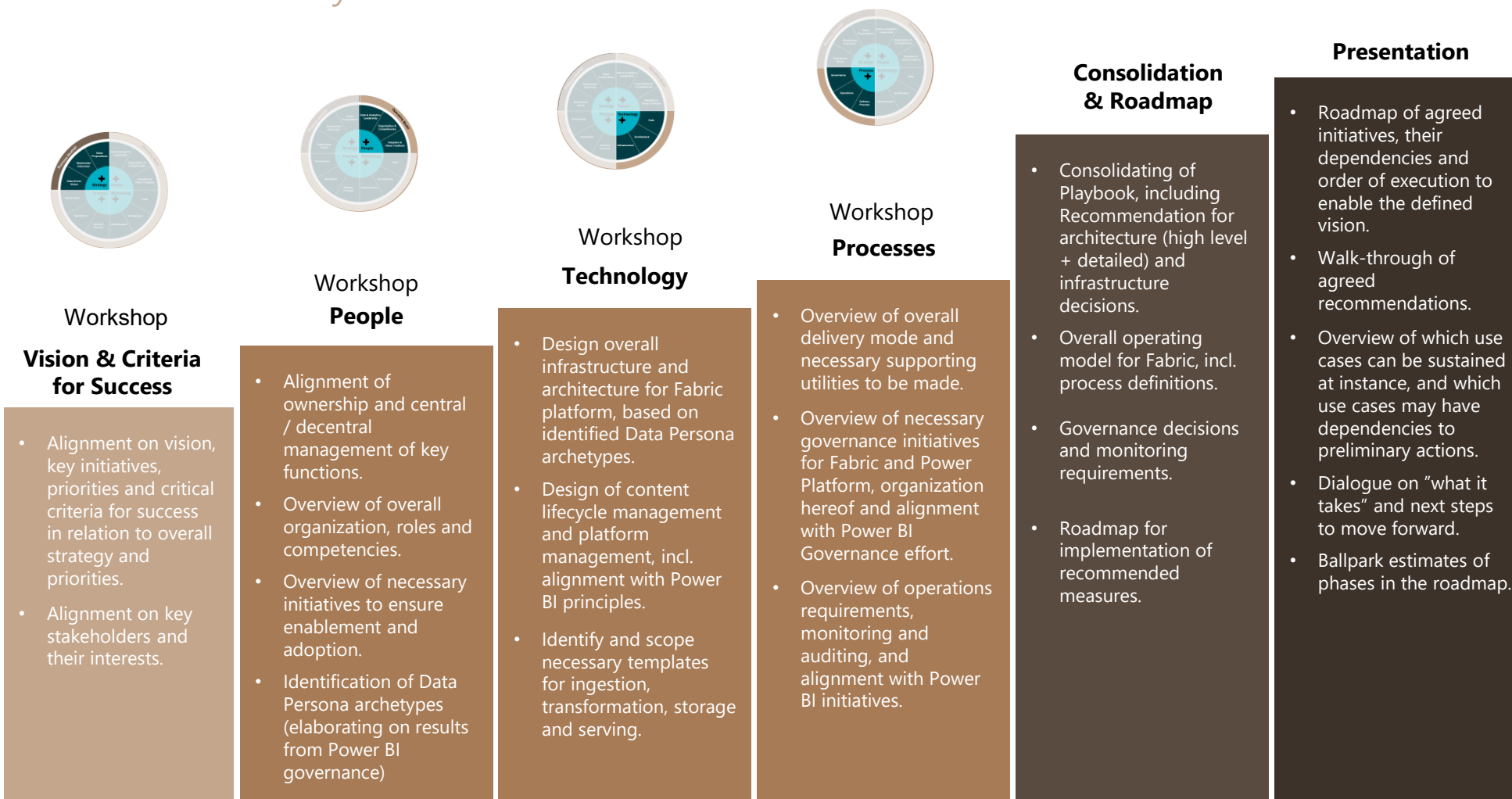
Strategy:
Why are we doing this & how will we succeed?

Operating Model:
How are we going to execute & with what?



Putting Together the Fabric Playbook

Which Activities and Why?



Time for Q&A



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Get in touch!

In case you have questions, reflections, or seek sparring on something specific, please don't hesitate to reach out.

Thank you!