

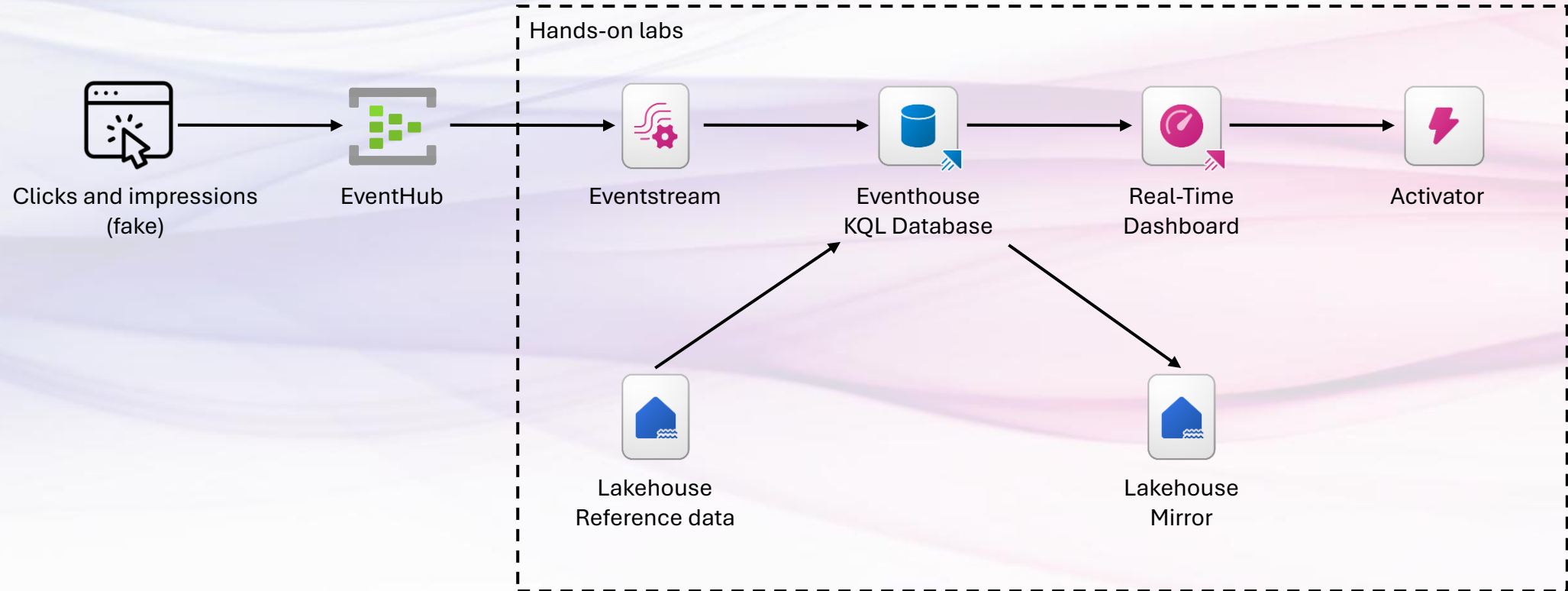
Build a Fabric Real-Time Intelligence solution in One Day

Handling data in motion with the speed of light

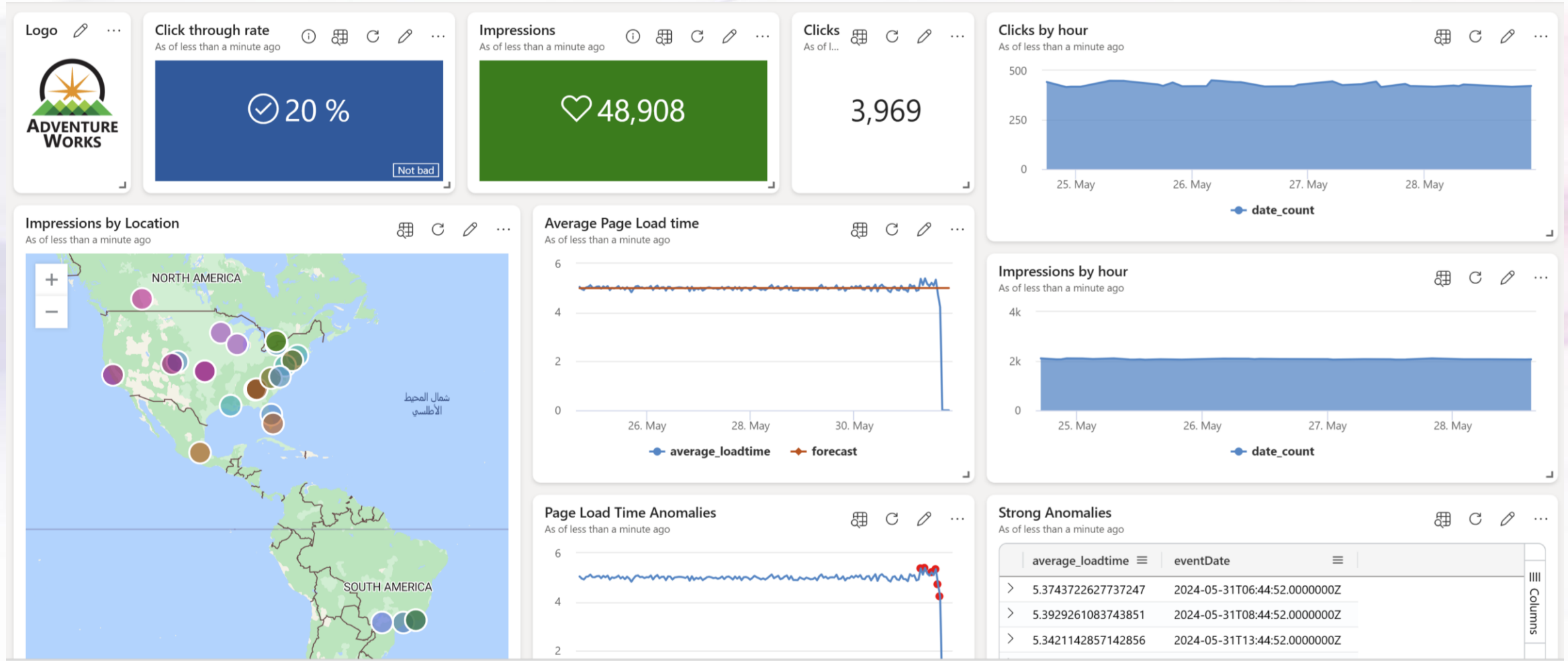


WIFI: MSFTGUEST
Event attendee code
PASS: msevent100dm

What we are building today



What we are building today



Agenda

- Introduction
- Overview of Fabric Real-Time Intelligence
- Eventstream & Real-Time hub
- Eventhouse
- External data
- Event driven actions
- Real-Time Dashboard and Org Apps
- Cost

What is Real-Time Intelligence

And should I really care?





Microsoft Fabric

The unified data platform for AI transformation



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI



Industry
Solutions



Partner
Workloads



AI



OneLake



Purview

Time based data:

difficult to manage, yet critical for success

Physical World

Manufacturing



Energy



Retail



Healthcare



Telco



Automotive



Financial Services



Media & Entertainment



Telemetry,
timeseries,
events



High Frequency

High Throughput

Semi-structured

+ Free Text

Immutable

Low Latency

Schema Drift



Logs, traces,
events

Digital World



docker



Audit
Logs

Activity
Logs

Access
Logs

Planet-scale infrastructure

for real-time data

8.3 EB

Events and logs per month

300 PB

Ingested daily

4.2 B

Real-time queries per day

15.5 T

Streaming events processed monthly

99.9992%

Success rate across messaging



Real-Time Intelligence

in Microsoft Fabric



Enterprise real-time data platforms

Azure Event Hubs

Azure Event Grid

Azure Stream Analytics

Azure Data Explorer

+



Self-service reporting and activation

OneLake

Data Activator

Power BI

=

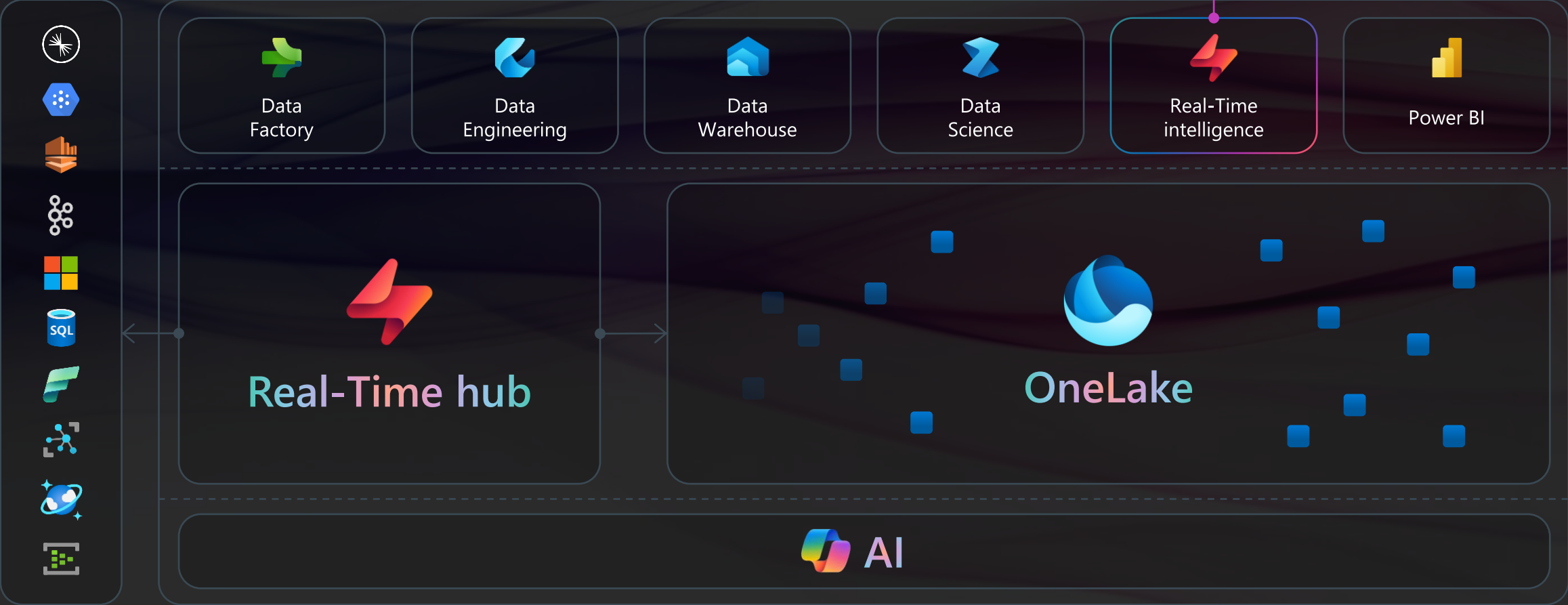
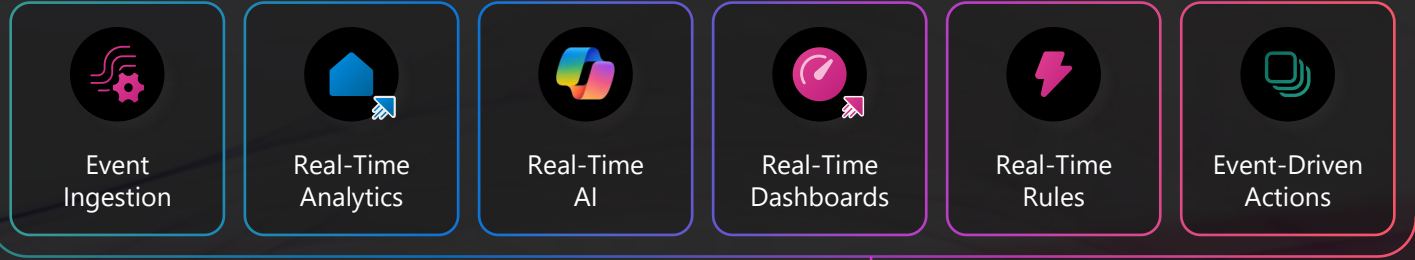


Real-Time Intelligence in Microsoft Fabric

Fully integrated

No/low-code real-time SaaS

Data platform



Lab intro & Lab part 1



Lab intro & Lab part 1

User: oslo<number>@probi.dk

Password: Password123!



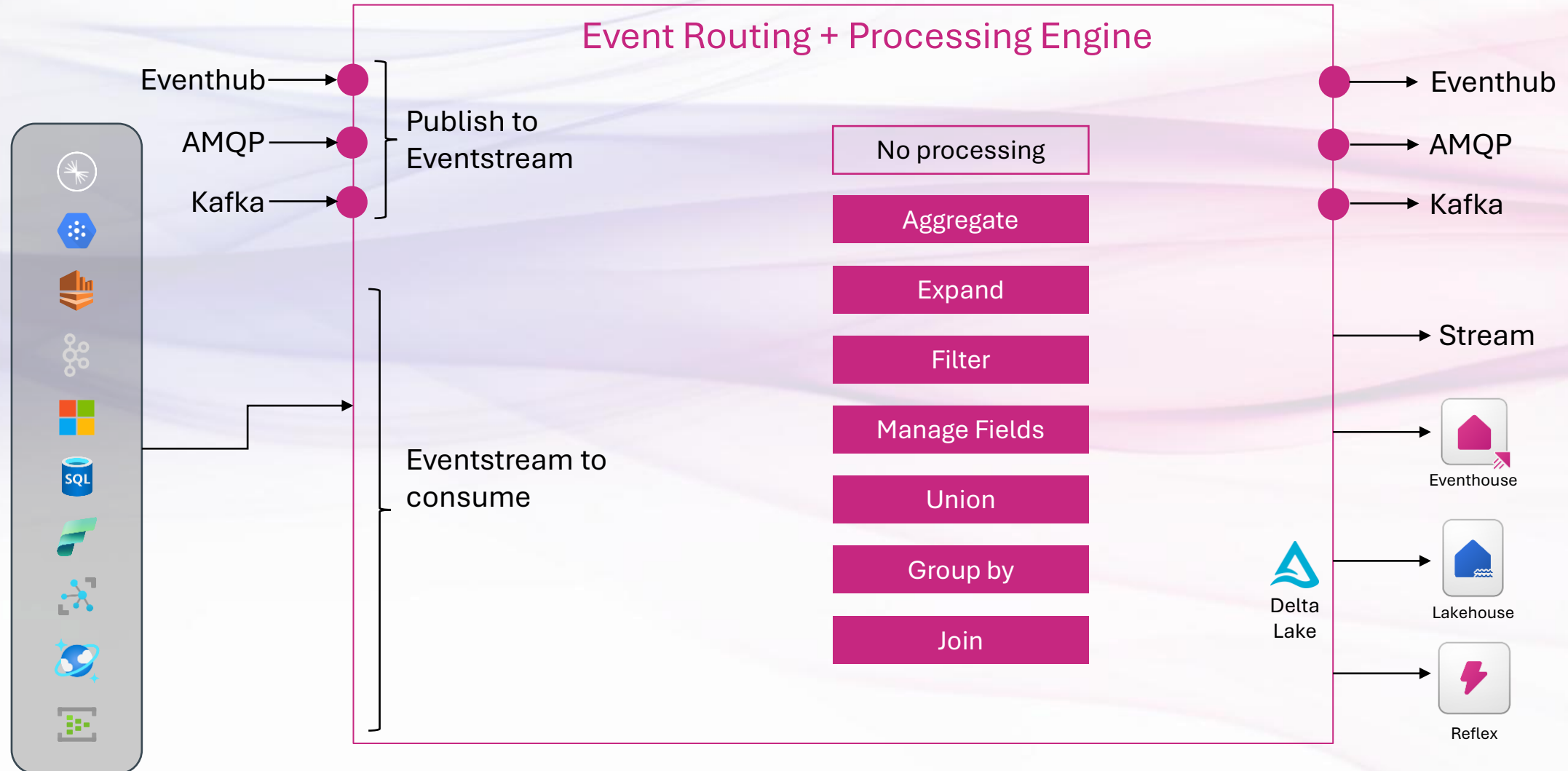
Lab intro & Lab part 1

<https://aka.bi/rti>
Part 1-5



Eventstream

Your go-to Fabric item for stream ingestion



Eventhouse

Store and query your data on the go

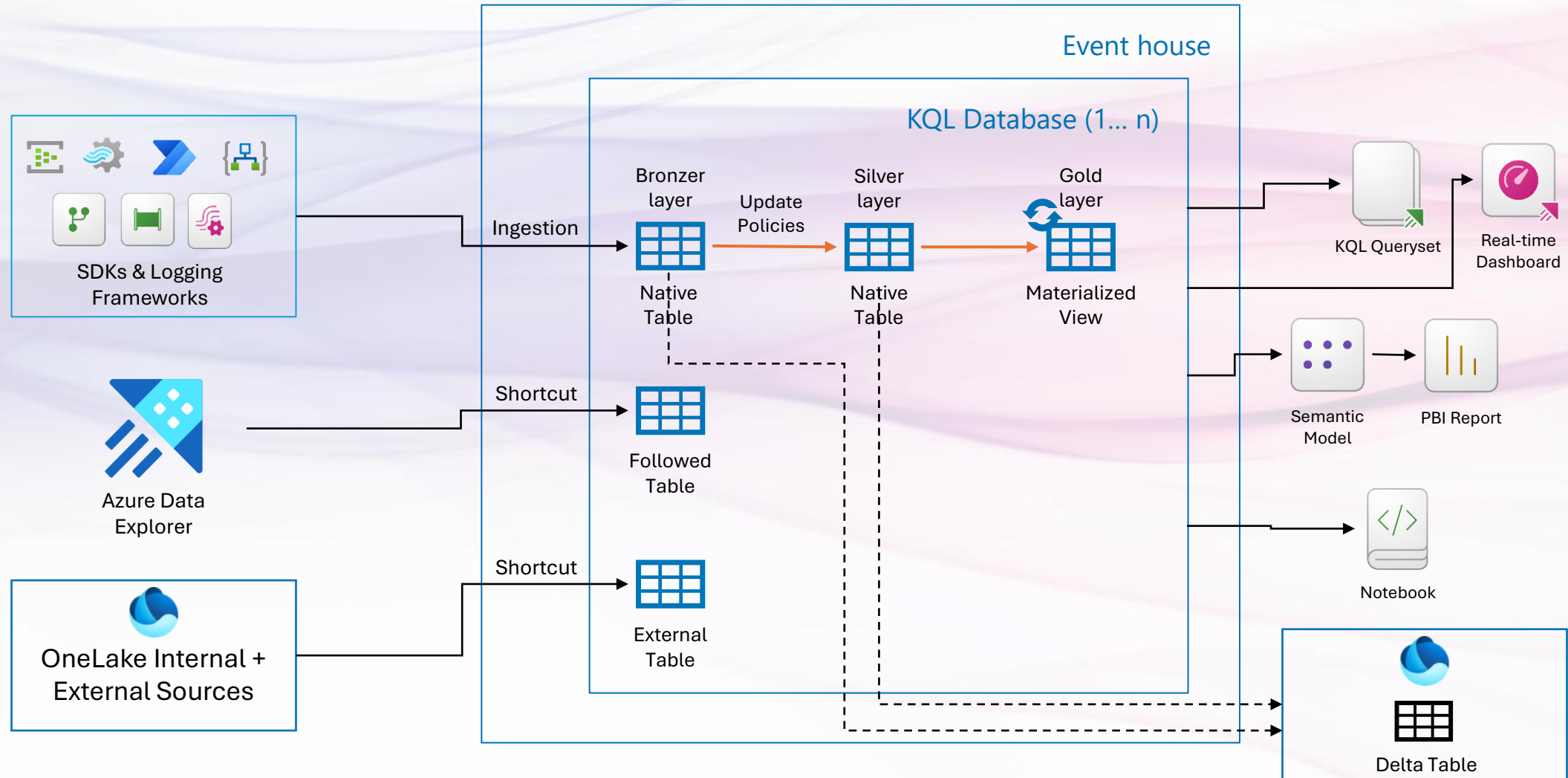
Advanced Analytics	Python support	Timeseries, geospatial, machine learning	Copilot	Plugins
Data modelling	KQL or SQL Dialect	Streaming or Queued Ingestion	Policies, Function, Materialized View	1 broad table is fine
Data store	Column Store	Compressed by default	Partitioned by time (additionally by hash column)	Each column indexed
Under the hood	Blob/Onelake as persistence layer	SSDs as Cache layer	Auto scaled compute	Separation of ingestion and engine compute

A vibrant, surreal illustration featuring Iron Man and other characters from the Iron Man franchise. Iron Man is seated at a wooden table in the foreground, eating spaghetti with a fork. To his left, Tony Stark is also seated, pointing towards the viewer. Behind them, War Machine and the Mantis are visible. The table is laden with various dishes, including bowls of spaghetti, a large bowl of fruit salad, a slice of cake, and a glass of orange juice. The background is a cosmic scene with a large blue planet, numerous colorful planets, and floating spacecraft. The overall style is highly detailed and colorful.

LUNCH BREAK

Workshop starting again at 14:00

Eventhouse Data Modelling



Dashboard and Org Apps

Visualize and share



Real-Time
Dashboards



Notebooks



Power BI
report



External links



Org Apps

Automatic updated

Multiple apps per workspace

Customize it to fit your needs

Automatic access control

Lab part 2



Lab part 2

<https://aka.bi/rti>
Part 13-15



A detailed illustration of a futuristic coffee machine. A large, blue, metallic cup filled with coffee and a white latte art design is the central focus. A mechanical arm with a blue and orange nozzle is pouring coffee into the cup, with a small flame or steam effect at the tip. The machine is surrounded by various mechanical components, including gears, pipes, and a large circular dial with a blue and orange swirl. Coffee beans are scattered around the base of the machine. The background is a soft, hazy blue and orange gradient.

Coffee break

Workshop starting again at 11:00

Event driven actions

Have your event drive your data





Event
Ingestion



Real-Time
Analytics



Real-Time
Dashboards



Real-Time
Rules



Event-Driven
Actions

4-5 CUs per user today



Event
Ingestion

aka.bi/rticostes



Real-Time
Analytics

aka.bi/rticosteh



Real-Time
Dashboards



Real-Time
Rules



Event-Driven
Actions

aka.bi/rticostact

4-5 CUs per user today

Links

[Github.com/brianbonk](https://github.com/brianbonk)

<https://kql.how>

<https://dcode.bi>

<https://aka.ms/realtimeintelligence>

**Build a Fabric Real-Time
Intelligence solution in One Day**

THANK YOU