# Event-driven workflows: Unlocking the power of data activator in Microsoft Fabric

## Vinodh Kumar

- Microsoft Data Platform MVP
- Data Architect
- Microsoft Certified Trainer x4
- Microsoft Community Champion
- Microsoft Q&A top contributor
- 12x Certified in Azure
- Global Speaker
- Data Blogger → vinsdata.wordpress.com









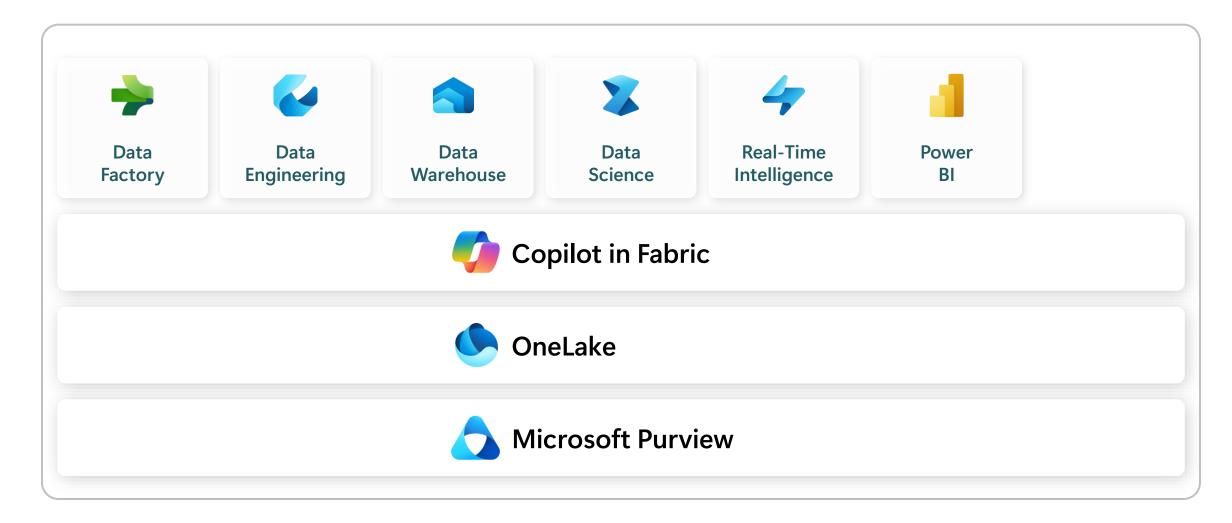
## Microsoft Fabric

The data platform for the era of Al

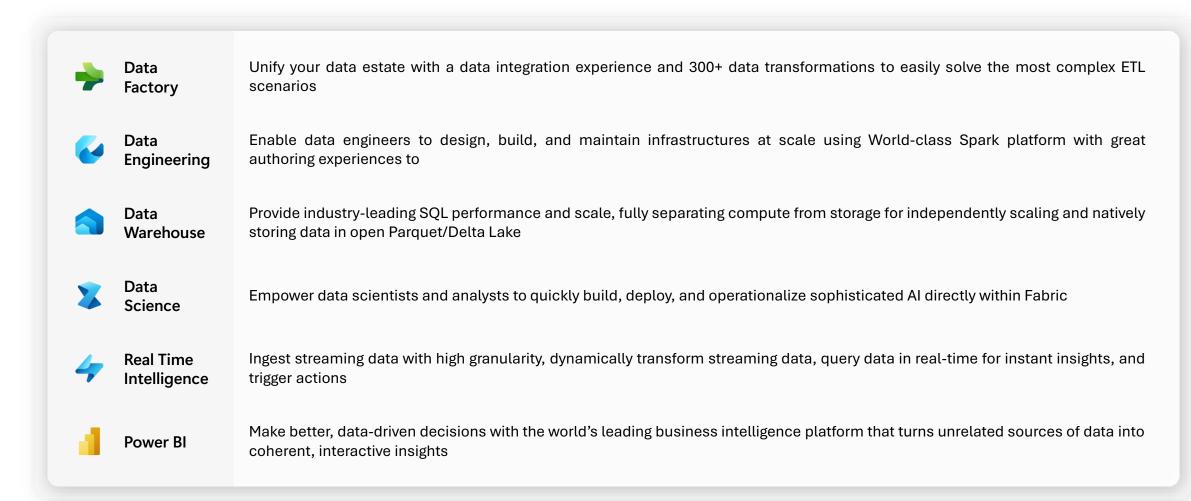
From	To	
Multiple analytics services	>> Unified stack	
Disconnected data sources	All the data in one place	
Isolated application	>> Entire estate	
Gen Al bolt on	>> Gen AI built in	



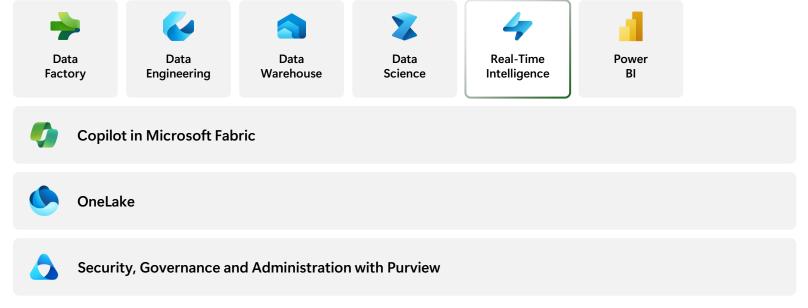
## Microsoft Fabric



## Seven key workloads for end-to-end analytics



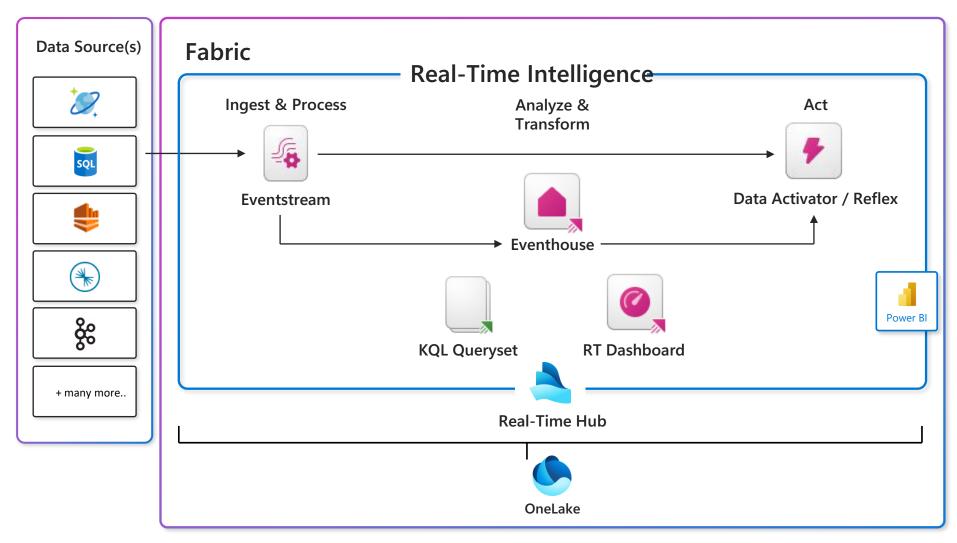
## Real-Time Intelligence workload



- Ingest, transform, query, visualize, and act on data in real time.
- Simple ingestion, curation and processing of streaming data in the Real-Time Hub, a single data estate for data in motion.
- No-, low-, and pro-code experiences for everything from business insight discovery to complex stream processing.
- Create triggers on changing data to act automatically when conditions are met.
- Streamline analysis of event streaming data with Copilot in Fabric.

## Real-Time Intelligence scenario

End-to-end analytics scenario



#### Overview of Data Activator in Fabric

An event-driven feature that allows organizations to automate workflows and derive insights in real time. It bridges the gap between data collection and actionable triggers by using real-time data streams and business rules to activate downstream processes.

#### **Key Features of Data Activator:**

- Event-Driven Architecture Monitors and reacts to real-time data changes.
- No-Code/Low-Code Interface Simplifies workflow creation without extensive coding knowledge. Takes
  actions when patterns or conditions are detected in changing data.
- Seamless Integration Connects with Fabric services like Power BI, Synapse, and Azure Data Explorer.
- Customizable Rules Allows users to define specific conditions and thresholds for actions.
- Alerts and Notifications Triggers alerts, emails, or other notifications based on pre-defined conditions.

#### **Use Cases:**

#### 1. Operational Efficiency:

- 1. Trigger automatic reordering of inventory when stock levels fall below a certain threshold.
- 2. Send alerts for anomalies detected in IoT device data.

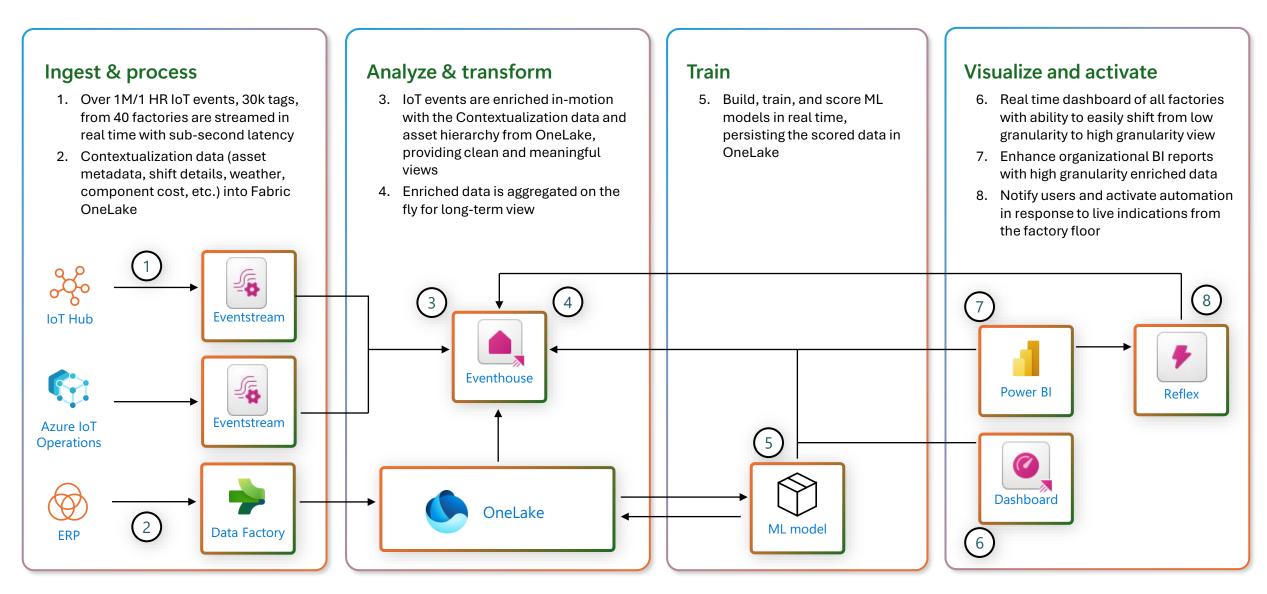
#### 2. Customer Engagement:

- 1. Notify a sales team when a key client interaction event occurs in real time.
- 2. Trigger personalized marketing campaigns based on customer behavior.

#### 3. Risk Management:

- 1. Monitor transactions for potential fraud and alert the security team.
- 2. Trigger actions to mitigate system failures or downtimes.

### An end-to-end Real-Time Intelligence experience connected Factory



## Questions?