

#FABCONSQLCON2026

FABCON

Microsoft Fabric
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ATLANTA MARCH 16 - 20, 2026

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Transforming Industrial Operations with Real-Time Intelligence and Agentic AI

AI at the Frontier



Our Speakers



Stuti Singh

Partner Alliance Manager
Quadrant Technologies



Yasaswi Akkaraju

Sr. Data Architect
Quadrant Technologies

From Vision to Value

Agentic Operations in Industrial Environment

The Future of Industrial Operations Agentic Workflows

Best-in-class organizations
who seamlessly integrate human expertise with
agentic capabilities



On-tap
intelligence



Human role
evolution



Data as Operational
Foundation

Foundational Building Blocks for Agentic Transformation



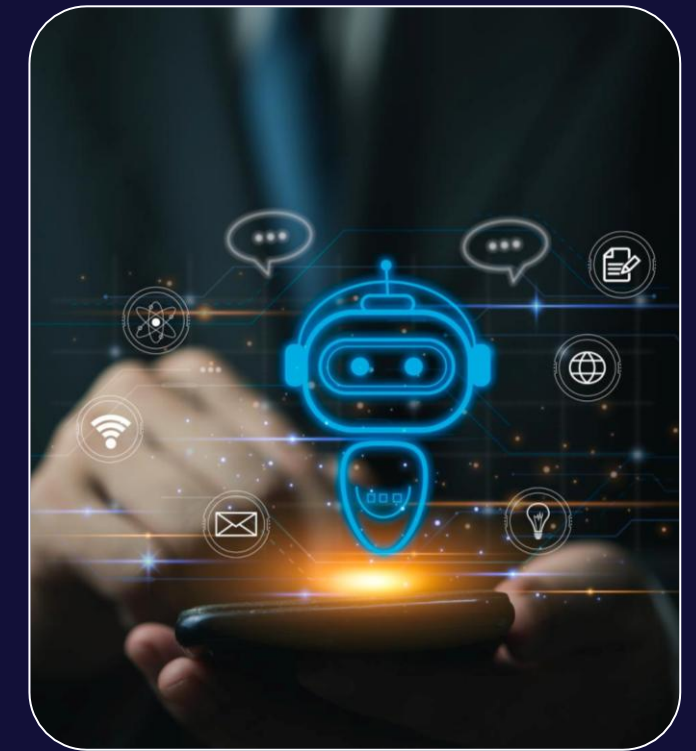
Scalable Cloud Platform



Edge Infrastructure



Real time Telemetry



Intelligent Operational Agents

Operational, Financial and Human Impact of Unplanned Downtime

Gap between IT and OT

“Which customer orders are impacted by this machine being down?”

“When will we have the required supplies to restart this line?”

“How many additional man hours are available for the production surge next week?”



Plant Manager

Factory

OT data

Siloed data systems

IT constraints

Legacy infrastructure

“How much energy is being used at each of our factories?”

“How has our production quality changed over the last 6 months?”

“What is our forecasted equipment maintenance cost for the upcoming quarter?”



Chief Operating Officer

Enterprise

IT data

The journey to agentic - operations

Phase 1

Assistants

Every person
is supported by AI that
understands their role



Phase 2

Collaborators

Every team
manages agents that
complete tasks
autonomously



Phase 3

Orchestrators

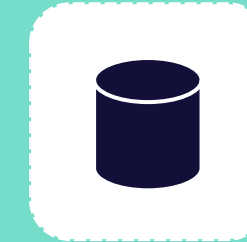
Every organization
directs agents that
drive enterprise
activities



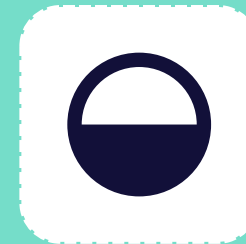
What gets in the way today?



Data arrives too late to make a difference



Data volumes are too large and expensive



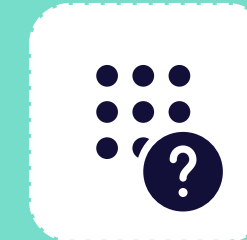
Data siloes between batch and real-time data



Too many instances for humans to track

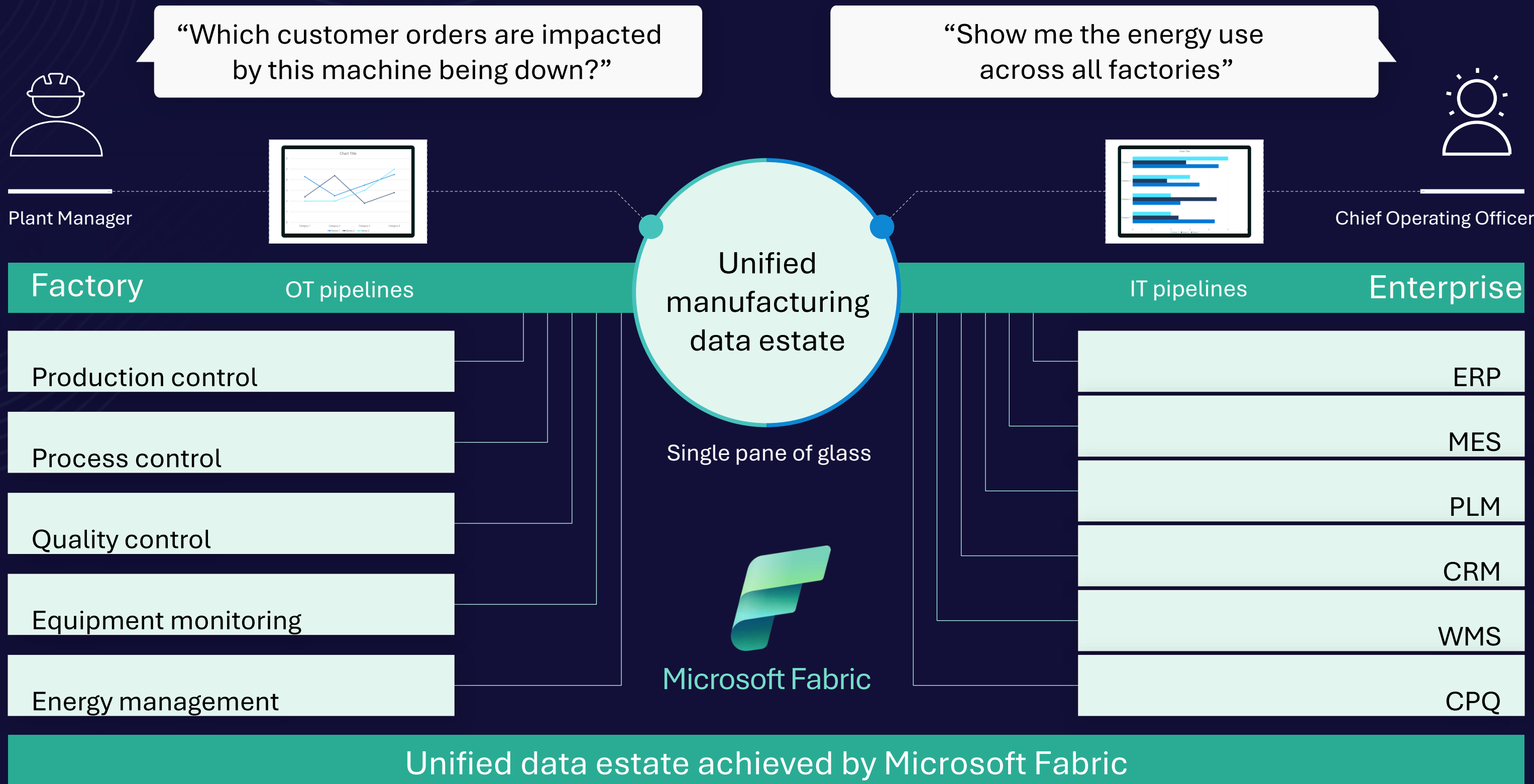


Hard to find the high-value signals in time



Decisions are too slow to change outcomes

Optimize operations across the value chain through data unification



Solving Industrial Operations

Problem statement

- Inability to process large volumes of streaming data in real time
- Edge to cloud latency issues
- Poor signal to noise ratio
- Alert fatigue and false positives
- Scalability Constraints
- Sustainable Decisions

Solution Approach

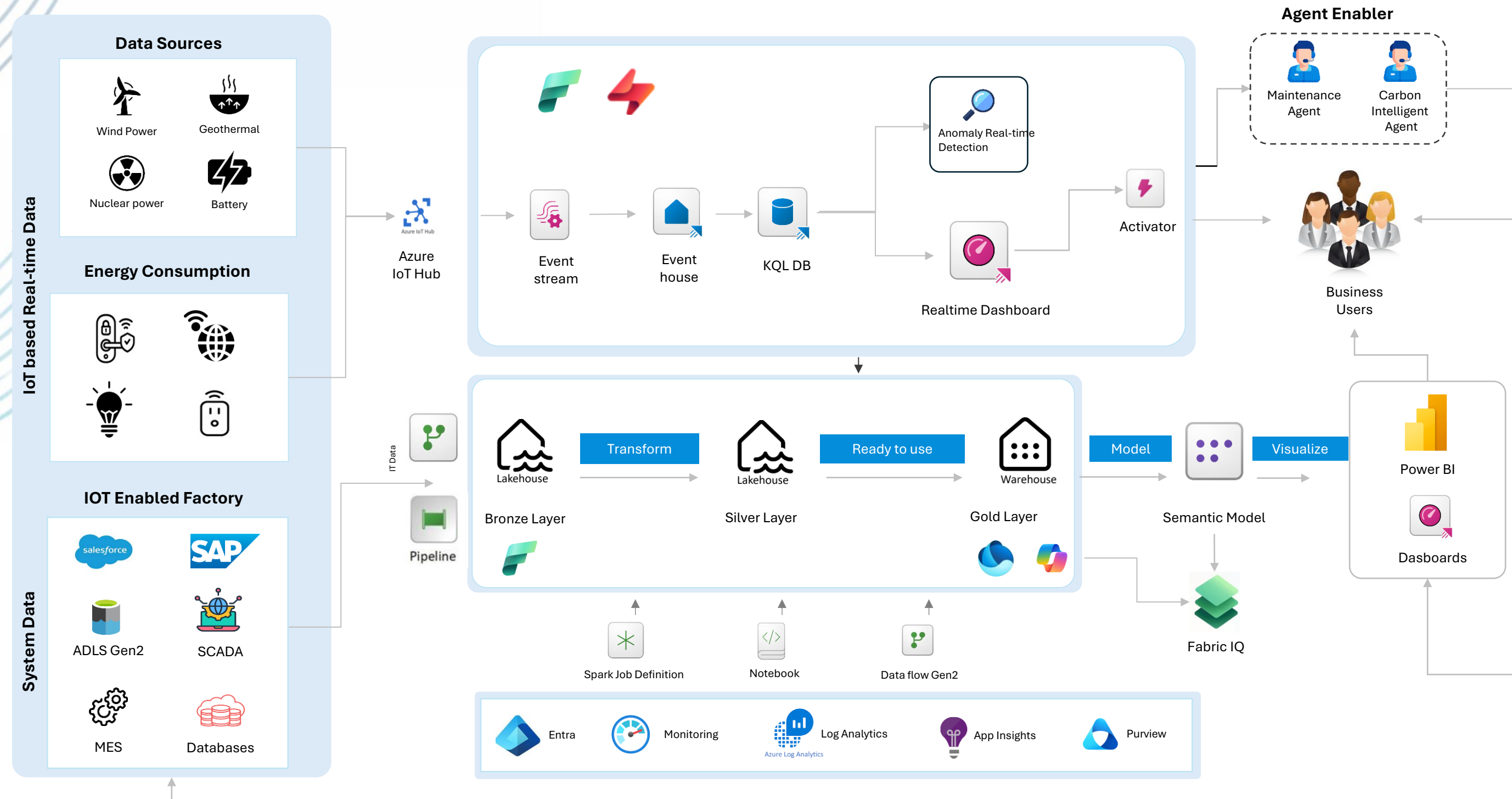
- Real time data ingestion with Fabric RTI
- Unified Data Foundation in Onelake
- AI Driven Predictive Models with Fabric IQ
- Intelligent Copilot Interface via Copilot Studio

Business Outcome

- 30–50% reduction in unplanned downtime
- 20–30% improvement in asset utilization (OEE)
- Faster anomaly detection (seconds vs hours)
- Improved maintenance planning and accuracy
- Reduced energy waste and carbon footprint



Enterprise Intelligence Platform For Streaming And Operational Data





Factory management

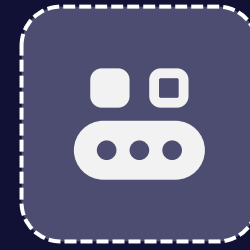
Connected factory

Predictive maintenance

Quality control

Development and testing

+



Logistics

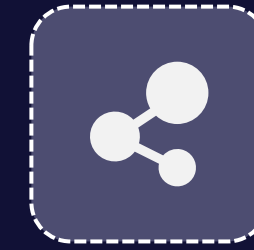
Supply chain

Demand management
and forecasting

Shipping and distribution

Connected vehicle fleet
management

+



Technology providers

Product embedded
analytics

Data driven continuous
product improvement

Customer service

Demo



From Factory Floor to
Instant Insights: **Microsoft
Fabric & Copilot Agents**



Redefining Industrial Ops: Case Study

TemperPack, a leader in sustainable packaging, operates within fast-paced logistics networks and aims to transform inbound exception resolution and carrier coordination using intelligent automation.



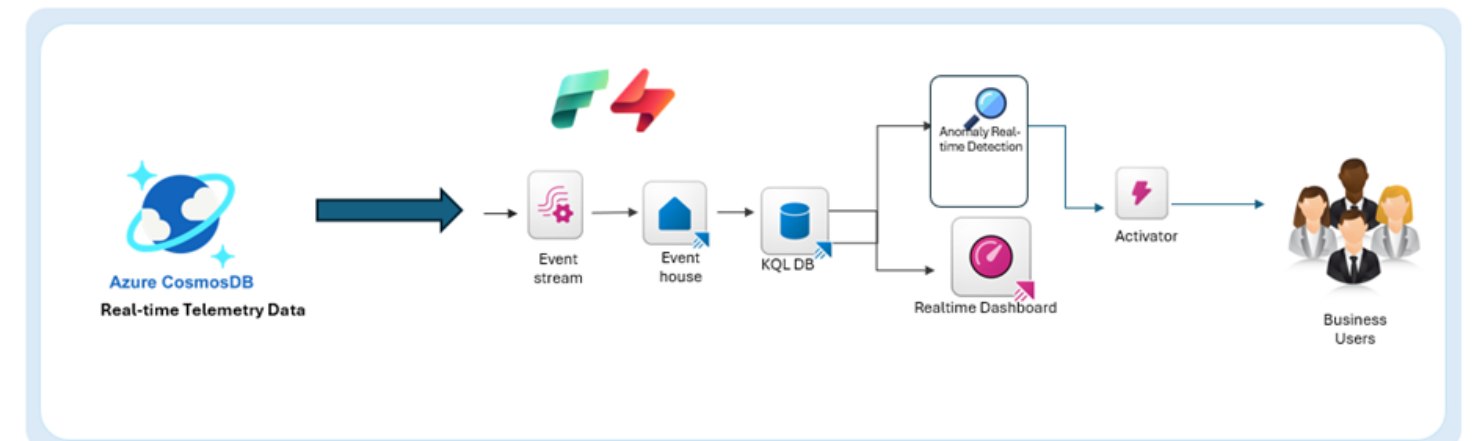
Problem Statement : Thermocouple overheating caused intermittent failures and unplanned downtime, disrupting production and increasing costs.



Solution: Streaming telemetry and AI anomaly detection provided early overheating alerts for timely operational interventions.



Benefits: Reduced downtime led to significant cost savings and achieved a substantial return on investment.

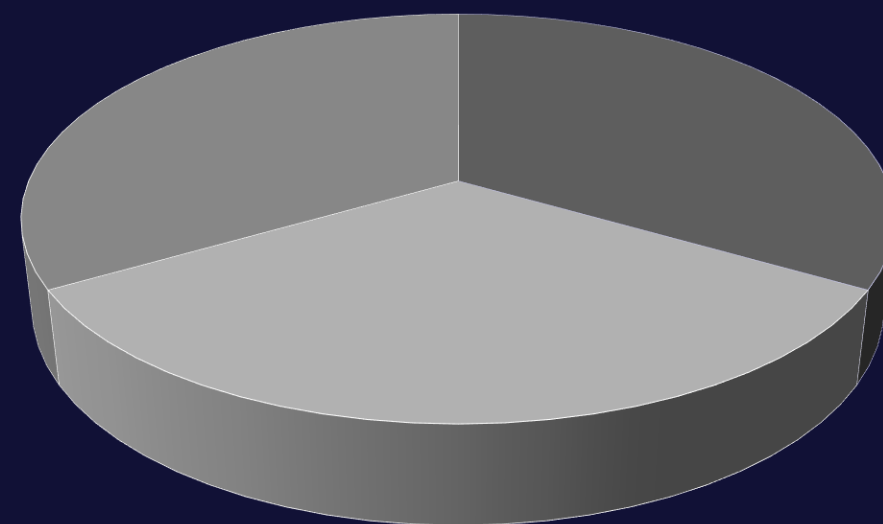


Co-Invested Proof of Value- AI at Frontier

Fabric and Agentic AI POV and POC for Customers funded through Azure Accelerate Program

Shared Investment Model

Co-Investment



■ Microsoft ■ Quadrant ■ Customer

Customer Benefits

- Reduced Upfront Costs
- Results and Outcomes
- Broader Deployments
- Accelerated Journey to Agentic Operations

Proof of Value

- Data Sources Compatibility Assessment Review
- Landing Zone Setup
- Implementation with small setup
- Semantic Model& Dashboarding
- Chat with your Data Experience
- Integration with Azure IoT Hub



Start Building for Tomorrow Today

Initiate Data Collection

Start collecting and unifying streaming data from operational assets to enable continuous intelligence.

Proof of Value Workshop

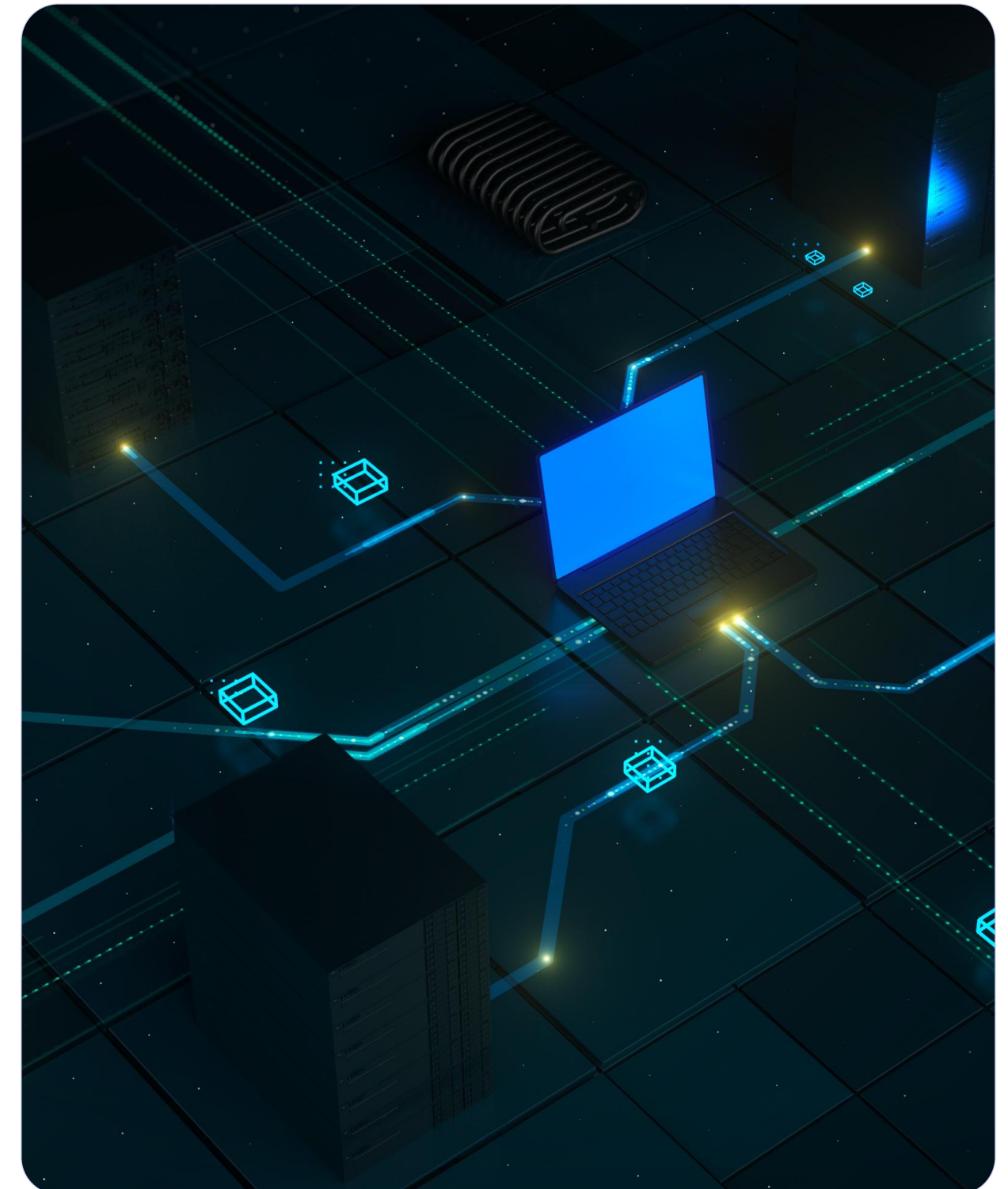
Conduct structured workshops to identify key use cases, validate assumptions, and align stakeholders.

Demonstrate AI Integration

Showcase how real-time intelligence and AI agents work together to drive proactive operations.

Scale from Success

Begin with one impactful use case, prove business value, then scale for broader benefits.





Set up your free Microsoft Fabric trial

<https://aka.ms/try-fabric>



Azure Marketplace Offering

https://marketplace.microsoft.com/en-us/marketplace/consulting-services/quadrantresourcelc.predictive_maintenance_manufacturing?tab=Overview



Get Started with QPredict Accelerator

[Quadrant Technologies at FABCON 2026 | Microsoft Fabric & AI Innovation](#)



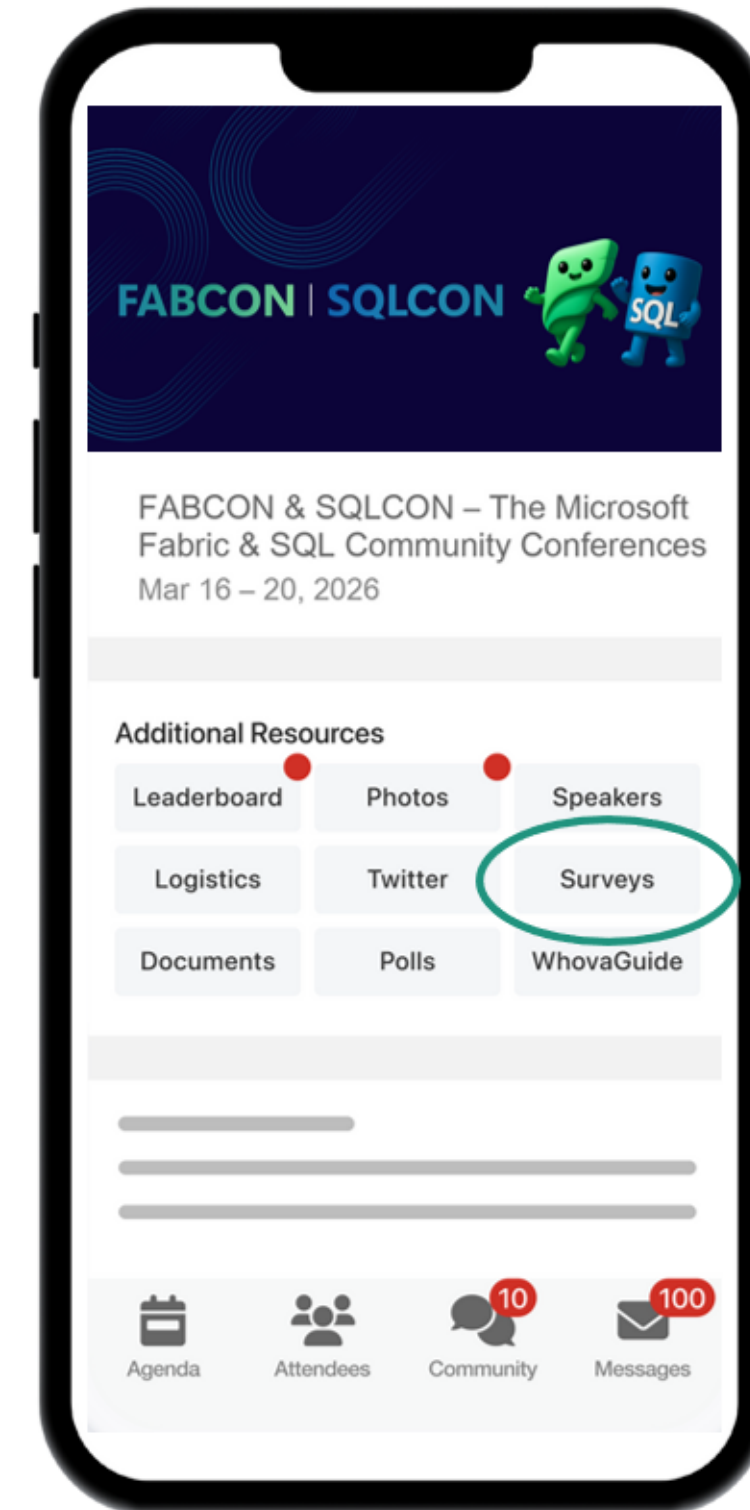
Discuss with your Microsoft partner or team about Microsoft Fabric RTI

Ask us how: fabriccoe@quadranttechnologies.com

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