Microsoft

Microsoft IQ: Turning Data into Enterprise Intelligence

Connecting data, workflows, and organizational knowledge

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What you will leave with

01

Connect

Data, workflows, organizational and external knowledge

Fabric IQ, Foundry IQ, Work IQ, and Web IQ working together as one intelligence layer for your people and agents.

02

Build

Organizational intelligence for AI

Turn the semantic models and data you already own into business context that agents can reason over.

03

Trust

The foundation for trusted decision-making

Permission-aware, governed and observable AI you can put in front of clinicians, scientists and executives.

AI Ambition meets a data reality gap

Fragmented Data Estate	Business context is fragmented across multiple data lakes, dashboards, documents, and teams with no shared business knowledge
Data Without Business Meaning	Teams think in business terms (customers, inventory, delays), but data systems only store tables with inconsistent definitions with no shared semantic foundation
The Intelligence Gap	Multi-modal oceans of data exist, but without semantic understanding to connect them into business meaning
Fragmented RAG Pipelines	Every team rebuilds data connections, embeddings, and permissions from scratch, creating duplicated, brittle system
Context-Blind AI Agents	AI generates responses without understanding business relationships, policies, or organizational workflows, leading to hallucinations or suboptimal answers

Today’s reality

Chain of Events	Day 1: ‘Elizabeth Brown’, age 62 is discharged after heart failure Day 3: She doesn't fill her medication (pharmacy system knows) Day 7: Her zip code has no pharmacy within 10 miles (SDOH data knows) Day 14: She visits the ED (claims system knows) Day 21: Care manager ‘Dr. Daniel Rodriguez’ finally gets the report connecting all 3 facts Day 28: ‘Elizabeth Brown’ is readmitted. Cost: $$$ which was preventable. Claims -> Analyst Request ->2 Weeks -> Report ->Meeting ->Action

All names, companies, personas, and data shown are fictitious and based on synthetic data. No real customer, personal, or production data is used.

Today’s reality

Chain of Events	Day 1: ‘Elizabeth Brown’, age 62 is discharged after heart failure Day 3: She doesn't fill her medication (pharmacy system knows) Day 7: Her zip code has no pharmacy within 10 miles (SDOH data knows) Day 14: She visits the ED (claims system knows) Day 21: Care manager ‘Dr. Daniel Rodriguez’ finally gets the report connecting all 3 facts Day 28: ‘Elizabeth Brown’ is readmitted. Cost: $$$ which was preventable. Claims -> Analyst Request ->2 Weeks -> Report ->Meeting ->Action
Expectation	Day 1: ‘Elizabeth Brown’ is discharged Day 2: System flags: high readmission risk + non-adherent + pharmacy desert zip Day 3: Care manager ‘Dr. Daniel Rodriguez’ intervenes: arranges medication delivery, schedules follow-up Day 28: ‘Elizabeth Brown’ is at home, stable. Readmission prevented. Request ->AI Agent ->Answer + Insight + Recommendation

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SECTION 01

Connect

01

Data, workflows, organizational, and external knowledge

- Fabric IQ
- Foundry IQ
- Work IQ
- Web IQ

Your people. Your agents. Your IQ.



Microsoft IQ

Unified context and intelligence for enterprise AI

Web IQ

"How you connect to real-world information"

Context from the web, news, images and video

Work IQ

"How your employees work"

Context on people, collaboration, and workflows

Fabric IQ

"The state of your business"

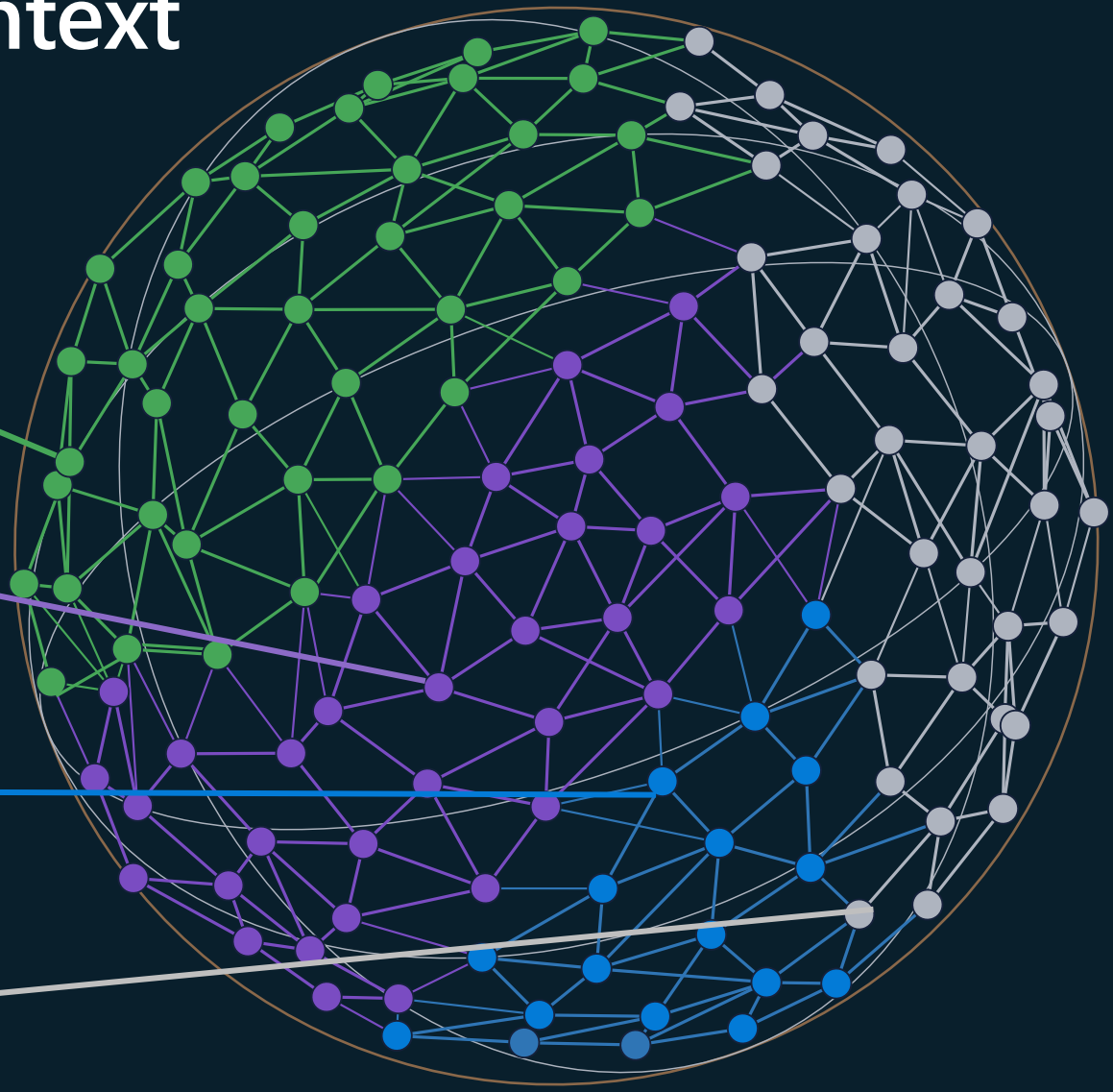
Context on business entities, systems of record, and actions

Foundry IQ

"Your institutional knowledge"

Context on policies, authoritative documents, and knowledge bases

Your Enterprise Business Context



Entities
Relationships
Metrics
Semantic Model

DATA
FABRIC IQ

Policies
Contracts
SLAs
Compliance

KNOWLEDGE
FOUNDRY IQ

Owners
Teams
Workflows
Decisions

People, Process
WORK IQ

Market
Competitors
News
Regulations

PUBLIC, EXTERNAL
WEB IQ

Fabric IQ

The state of your business

Unified business understanding

Consistent meaning across data, models, rules, and actions

Always-on insight to action

Understands and acts on live, context-rich data

Agents with business context

Powers AI agents in Fabric

Classified as Microsoft Confidential

Microsoft Fabric

The unified data platform for AI transformation

IQ

Semantic Models

Ontology

Graph

Data Agents

Operations Agents

Fabric Platform

Copilot

OneLake

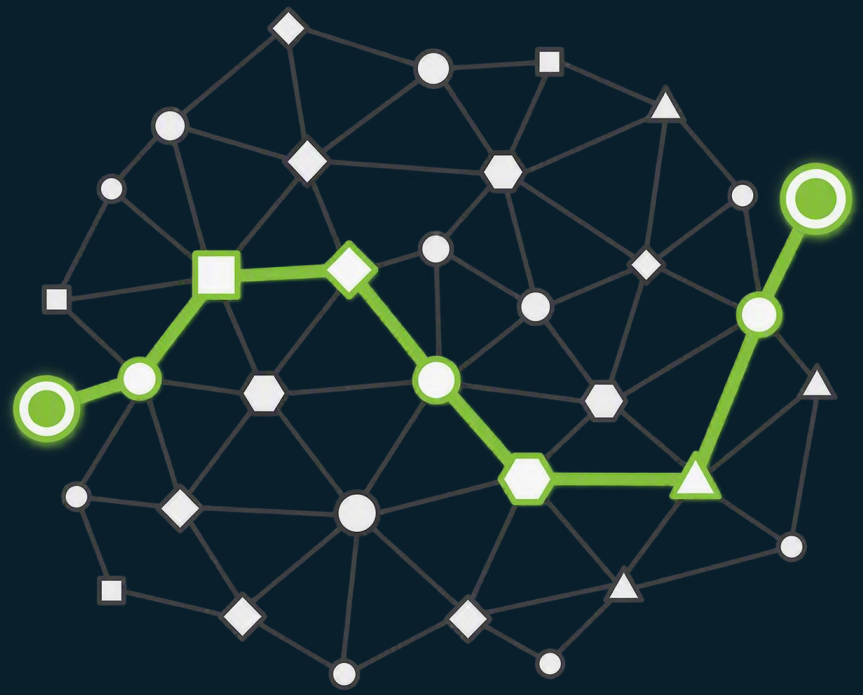
Governance

FABRIC IQ

Computes the answer

“Which equipment failed?,
which products will be affected?,
which shipments will breach tolerance? and
which customers do they touch?”

No document holds that. It is traversed.



Enterprise readiness and acceleration:

- Ontology can be seeded from existing investments on Fabric\PBI Semantic Models.
- Ontology Copilot – generates candidate model, human review.
- Data bindings - map ontology entities to where data actually live : one copy, one security



Foundry IQ

Your institutional knowledge

Automated data connectivity

Faster agent delivery with point and click knowledge bases, reusable across agents

Context without blind spots

Unlock better results with agentic retrieval that finds the relevant data automatically

Respect user access permissions

Users only see what they are allowed to – even on organization wide retrieval

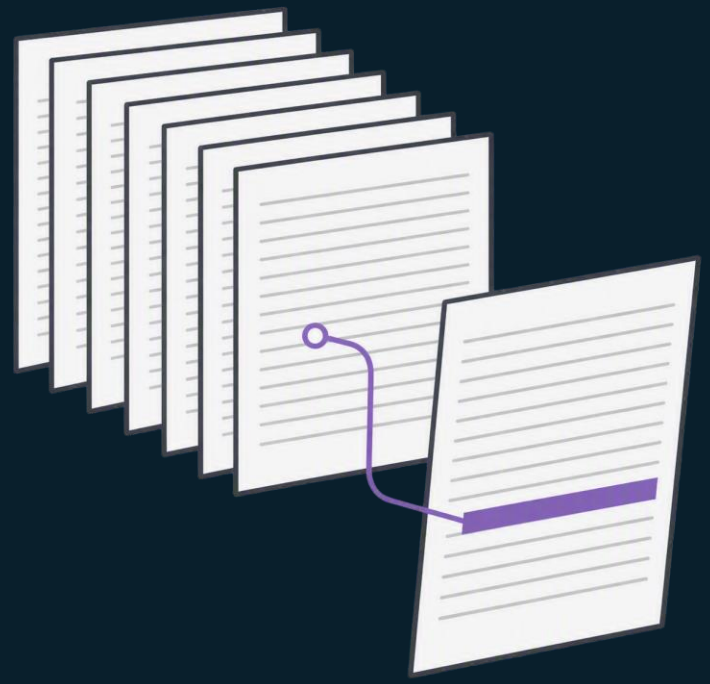
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FOUNDRY IQ

Finds it and cites it

“Why the equipment failed?,
What is the fix?,
what tolerance are we contractually obliged to hold for this customer?”

That answer exists. It needs finding.



Enterprise readiness and acceleration:

- A knowledge base is point-and-click over knowledge sources, and indexing is automatic.
- Agentic retrieval replaces the query-planning logic you'd otherwise hand-write.
- Permissions and reuse are structural, not per-project.

Microsoft Foundry

Streamline development with native IDE experiences

GitHub | Visual Studio | Visual Studio Code | Copilot Studio

Models | Agent Service | IQ | Tools | Machine Learning

Build context-aware and action-oriented agents with 1,400+ pre-built connections and MCP tools

Adobe | ATLASSIAN | SAP | servicenow | UiPath | Microsoft Bing | Microsoft Fabric | Microsoft OneLake

Control Plane

Leverage a complete signals management layer with Microsoft Security integrations

Microsoft Agent 365 | Microsoft Defender | Microsoft Purview | Microsoft Entra

Security, compliance, and governance



Work IQ

How your employees work

Decision-ready data

Understands your work—files, emails, meetings, chats, and line-of-business data

Persistent memory

Knows how people and teams work and adapts over time

Real-time inferencing

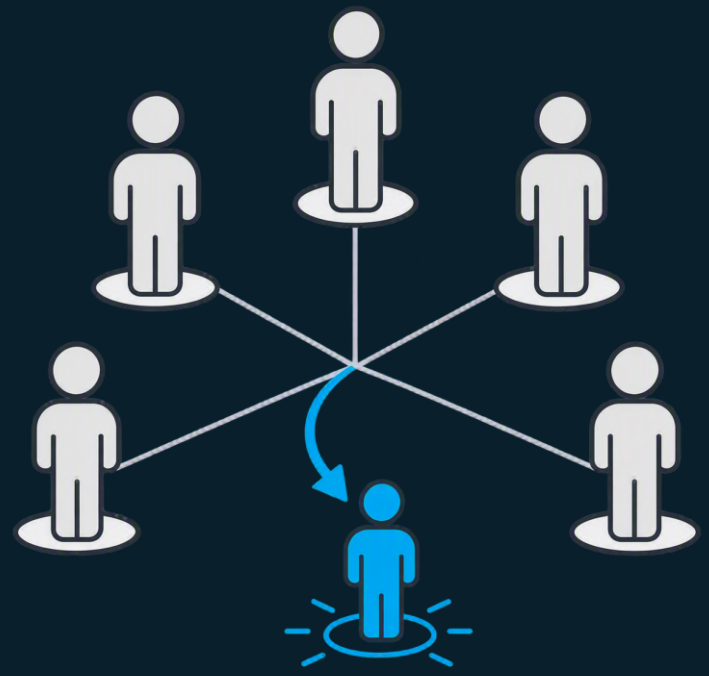
Turns context into insights, anticipates the next steps, and recommends the best action

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WORK IQ

Knows who acts

Who are the certified technicians?
Who is available?
Who the technician from the process line will consult with?



This is the ontology nobody models.

Enterprise readiness and acceleration:

- It is already built — continuously, as a by-product of work.
- Orchestration overhead is removed -The Context API returns agent-ready context, not raw signals.

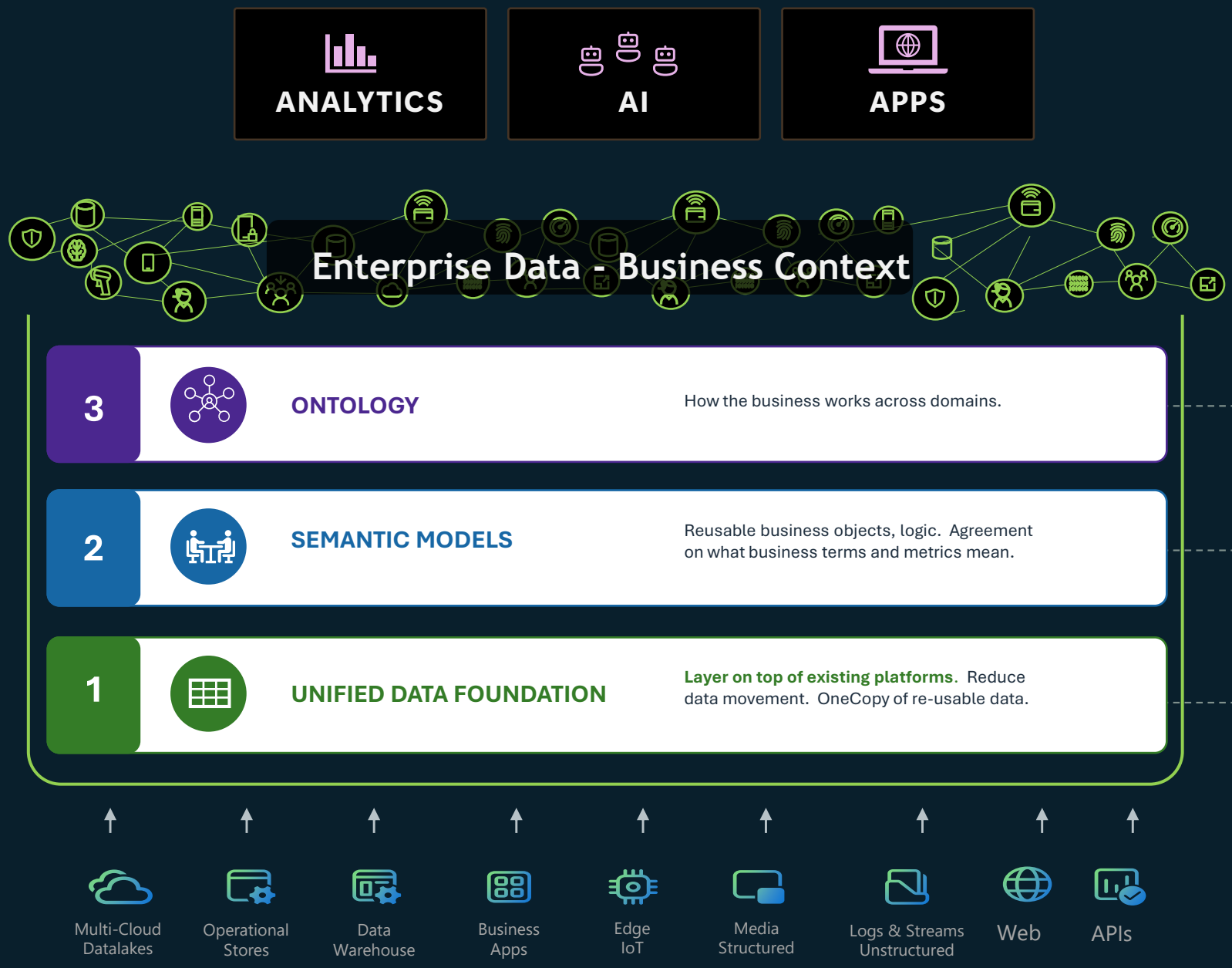
SECTION 02

Build

02

Organizational intelligence for AI

- Unified data
- Semantic models
- Ontology
- Data agents



AI Ready Data

Intelligent Outcomes
Actions, recommendations and measurable impact.

Business Understanding
Meaning, relationships and operational rules.

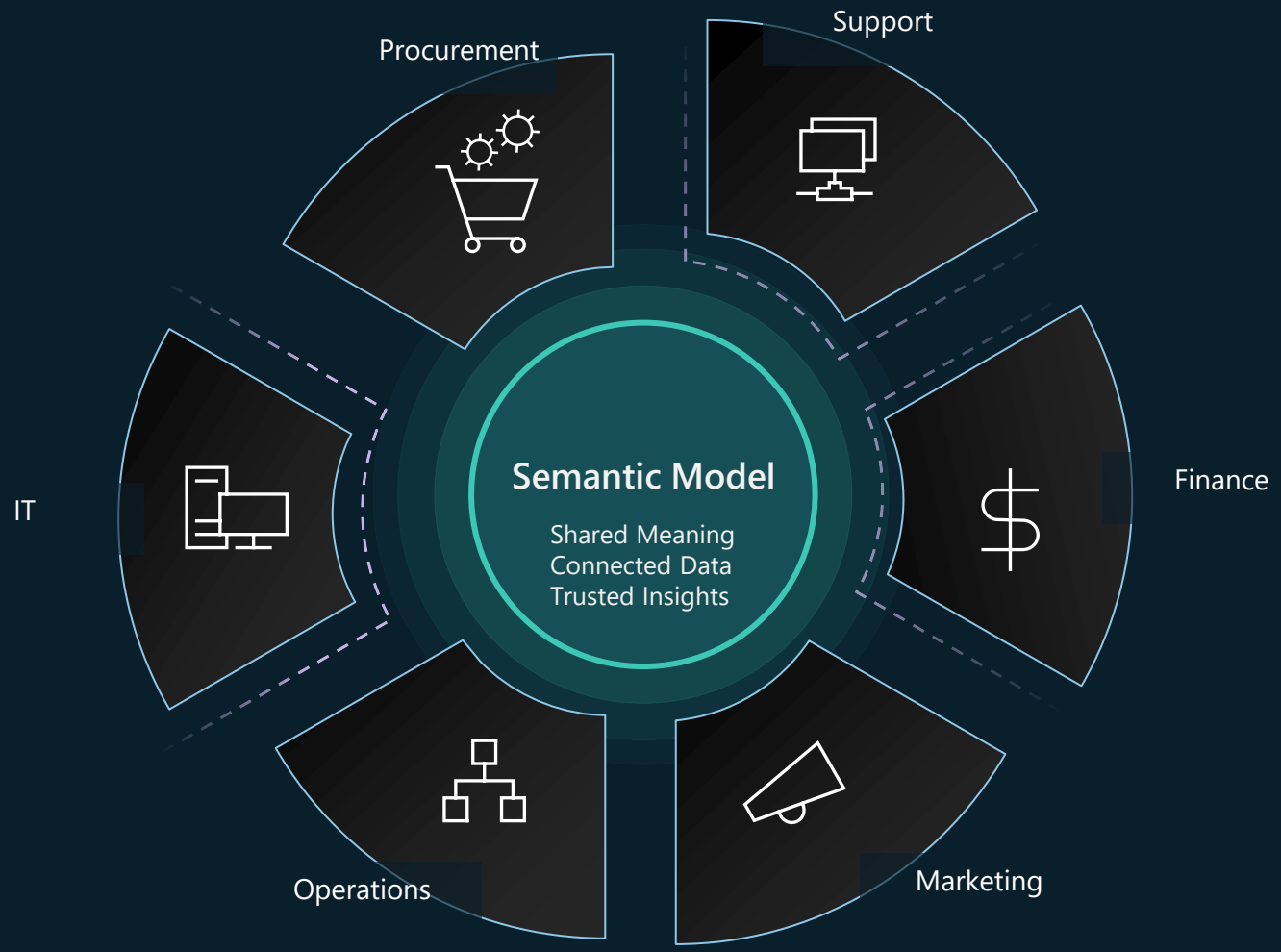
Consistent & Reusable
One governed view with reusable business logic.

Shared Meaning
One source of truth for definitions and calculations.

Trusted Data
Clean, reliable and governed data to build on.

Semantic Model is your business MOAT

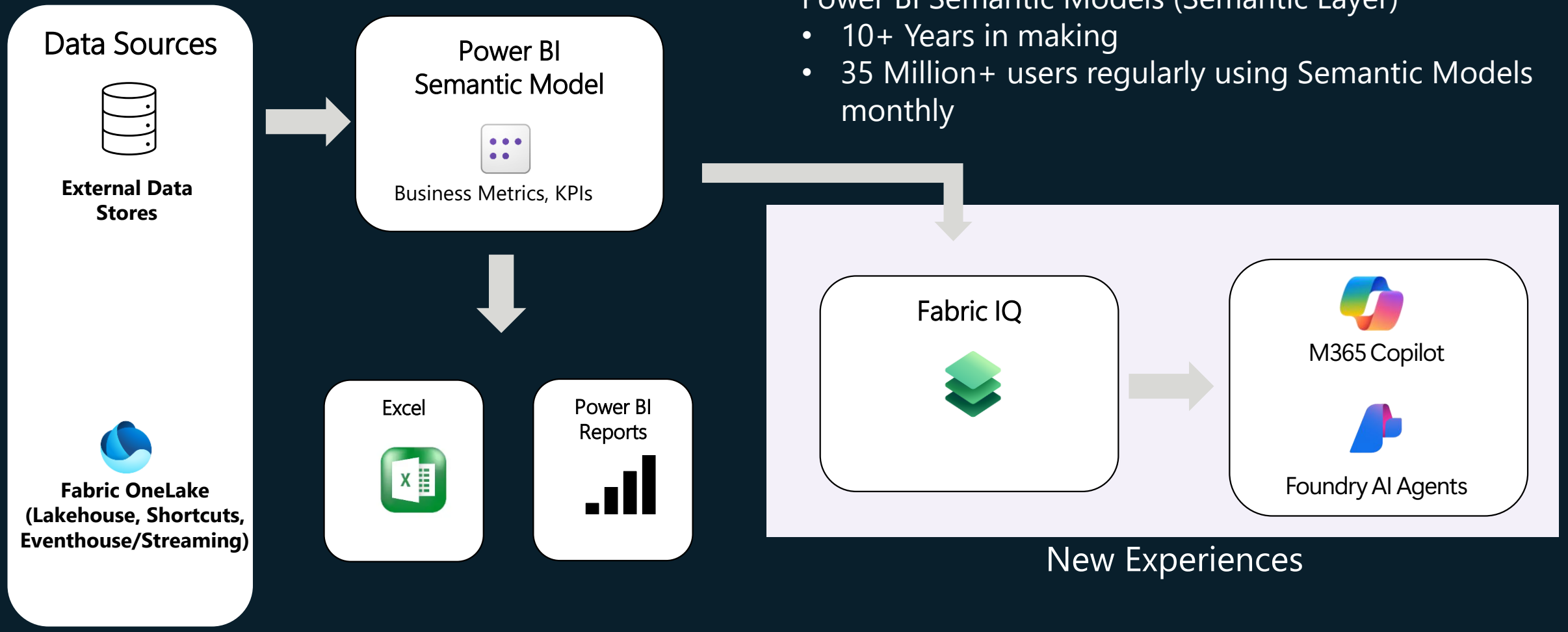
and your Headstart for you AI Adoption



- **DECADES** of investments and maturity
  - People skills maturity
  - Technology maturity
  - Embedded to your business workflows
- 10-100K in your organization

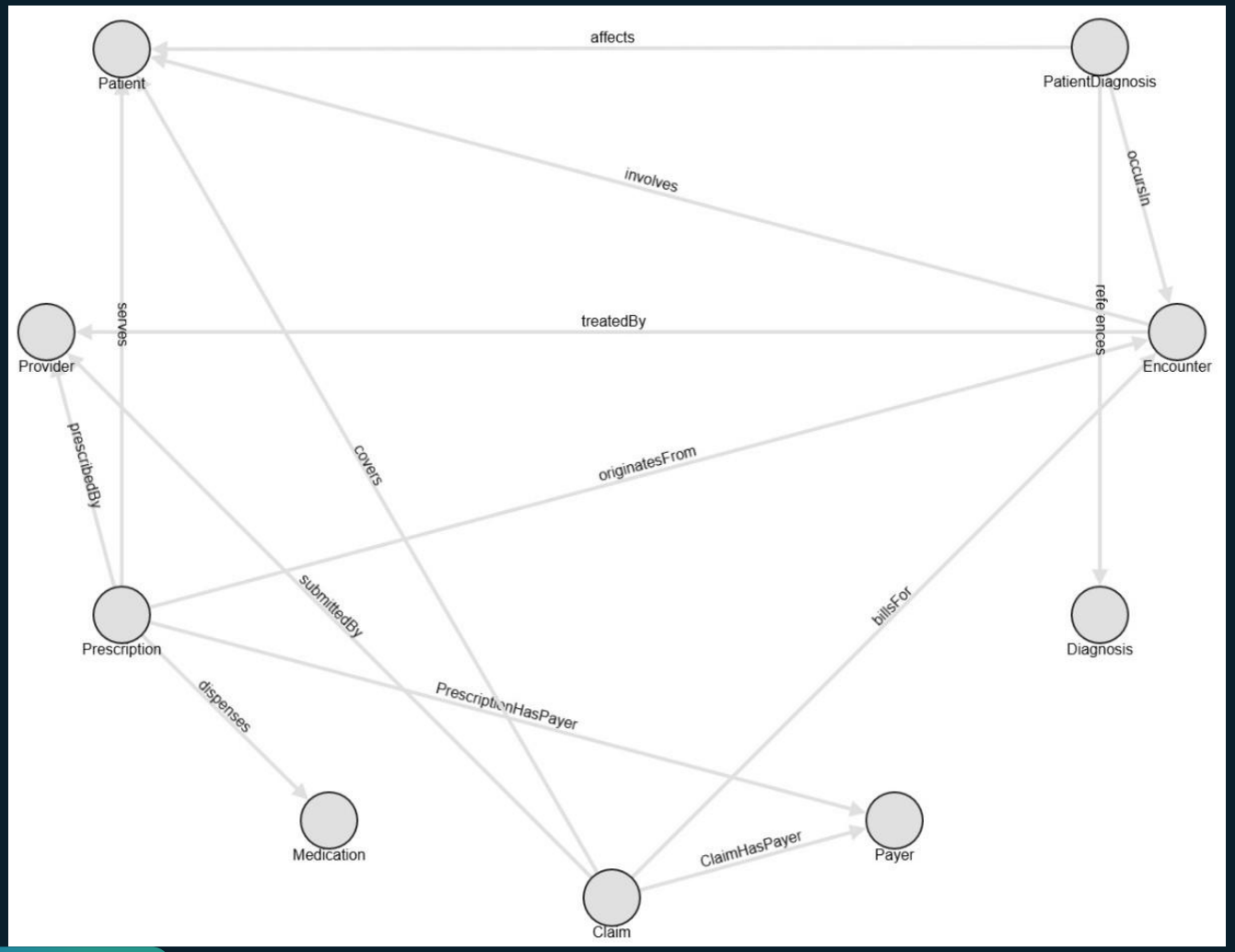
Fabric IQ: Grounding AI in your Trusted Semantic Model

Power BI Semantic Models – Define Once, User Everywhere



Ontology in Fabric IQ*

Model how your business works with the Ontology item



Define the ontology for your business using visual no-code tools

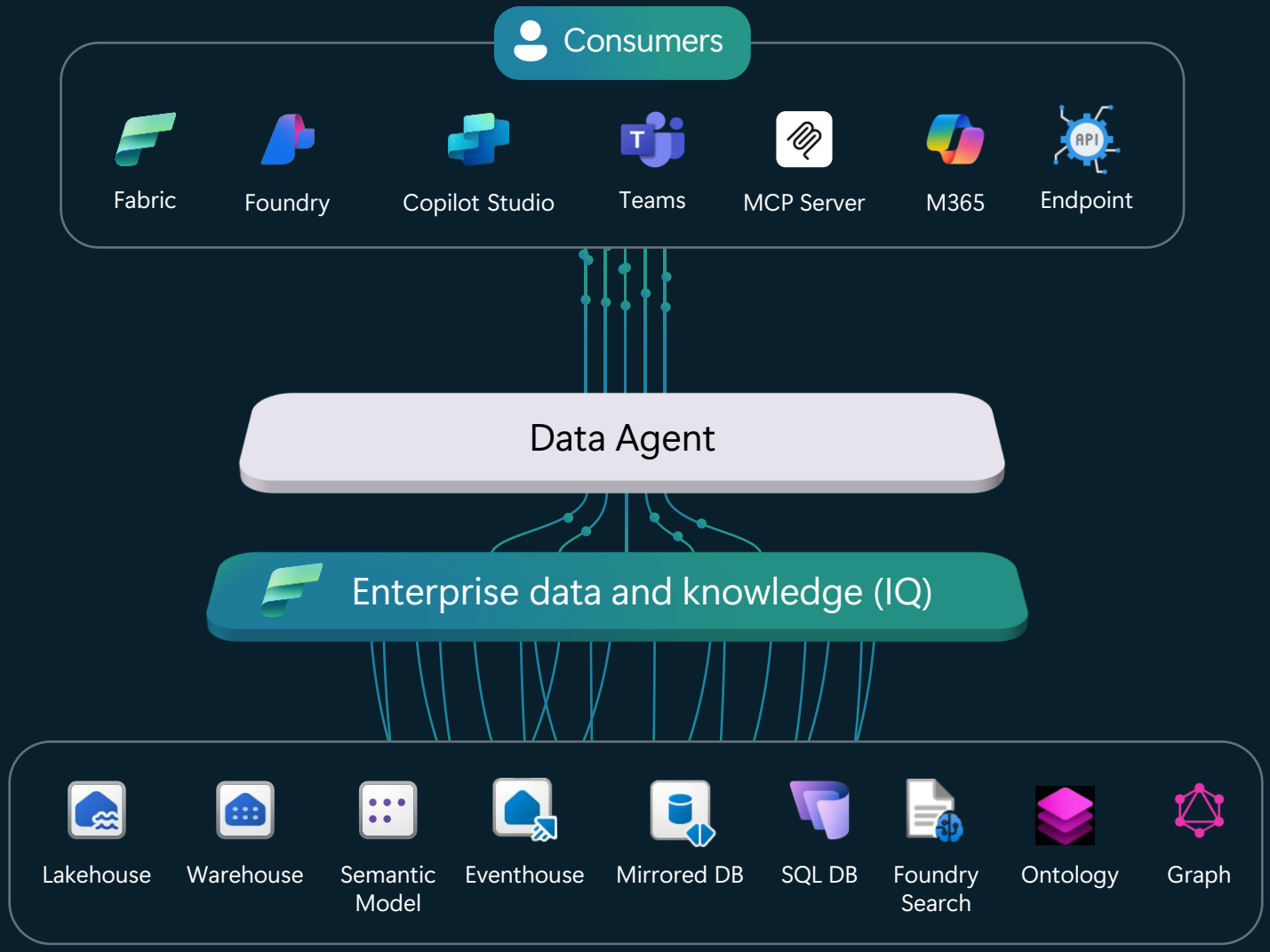
Build ontologies with business concepts, processes, and real-world relationships

Jumpstart your ontology creation from 20M+ semantic models

Bind tables, real-time streams and geospatial data in OneLake to your ontology

*Public Preview

Fabric data agents



A virtual analyst that allows users to interact with and gain insights from enterprise data and knowledge in Fabric

New

Announcing General Availability of Fabric data agents!

New

Data agent prompts now logged in Purview for auditing and governance

New

Graph supported as a new source for better reasoning across related entities

New

Support for SQL Views, and SQL and KQL Functions

Enterprise Intelligence: Domains, IQs and Relationships

A connected network of domain IQs creating a continuous intelligence fabric across the molecule-to-patient lifecycle



1. Discovery & Research

- Experiment Intelligence IQ
- Assay & Model Intelligence IQ
- Scientific Knowledge Navigator
- Research Program Digital Twin

Generate foundational scientific knowledge

2. Clinical Development & Evidence

- Protocol Intelligence IQ
- Patient & Site Matching IQ
- Clinical Data Harmonization IQ
- Real World Evidence Intelligence

Design, execute and validate clinical evidence

3. Manufacturing & Quality

- Digital Factory IQ
- Batch Genealogy Intelligence IQ
- Zero Defect Manufacturing IQ
- Predictive Maintenance IQ

Deliver quality products consistently and efficiently

4. Safety, Regulatory & Medical

- Safety Signal Intelligence IQ
- Regulatory Submission Intelligence
- Label & Indication Intelligence
- Medical Inquiry Knowledge IQ

Ensure patient safety and regulatory compliance

5. Commercial & Market

- Indication &Population Intelligence
- Evidence to Value Intelligence
- Field & Medical Enablement IQ
- Market Signal Intelligence IQ

Drive market access, adoption and business performance

Feedback Loop: Real World Insights continuously inform and improve every upstream decision

CROSS-DOMAIN INTELLIGENCE LAYER (ENABLED BY ONTOLOGY & SEMANTIC MODELS)

Unified Business Ontology
(Common language and relationships across domains)

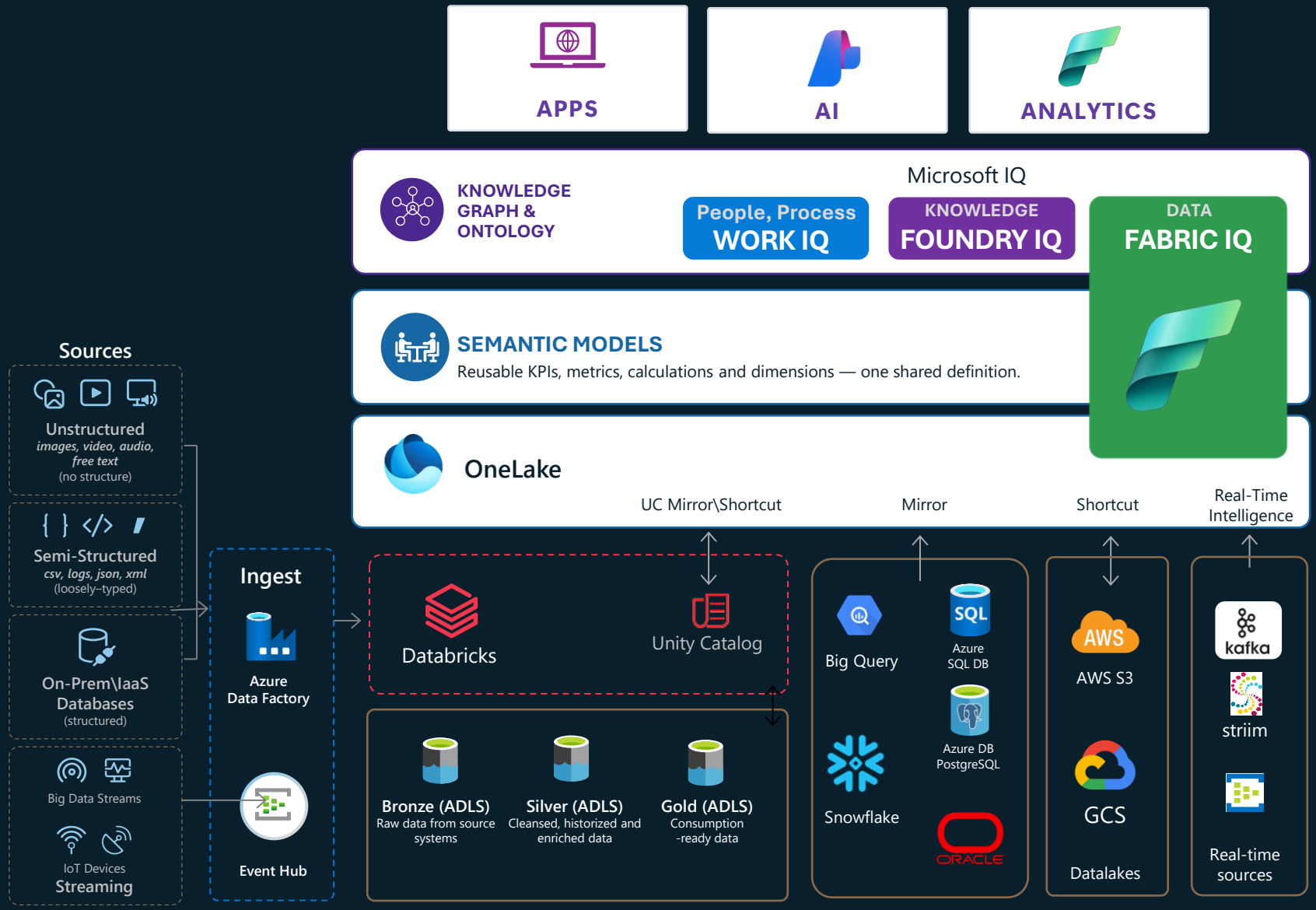
Shared Semantic Models
(Consistent definitions, metrics and context)

Cross-Domain Reasoning
(Connect insights across entities and domains)

Enterprise Knowledge Graph
(Relationships across molecule, product, patient, site, batch, market)

Cross-Domain Decisions
(Optimize outcomes across the enterprise)

Build on what you have



BUSINESS LAYER

Business Users

- Reuse decades of investments on trusted semantic models and KPIs
- Accelerate enterprise ontology implementation
- Add new capabilities: Agentic Implementation

DATA ENGINEERING LAYER

Tech\Data Engineers

- Leverage existing data platform investments and technical skills
- Data remains where it delivers the most value

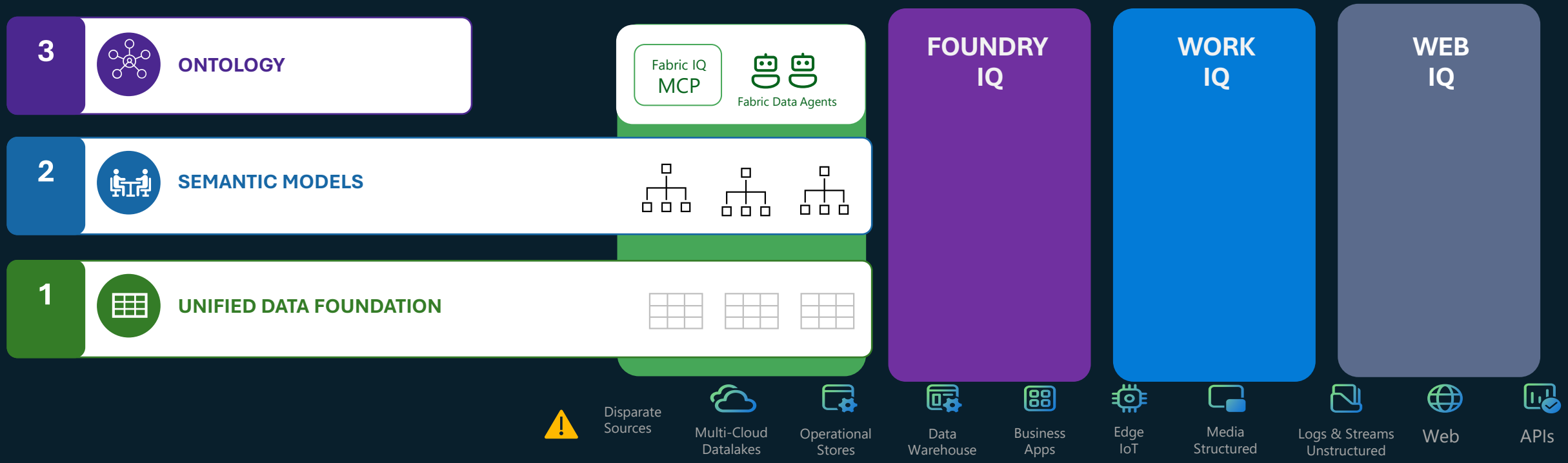
Step 1: unlock semantic models

Available NOW!
GENERAL AVAILABILITY

- **Unlock existing semantic models for AI** through Fabric IQ MCP and Data Agents
- Unify data through OneLake to break down siloes including Databricks and Snowflake
- Use-cases:
  - AI for Analytics
  - Domain multi-agents
  - Cross domain multi agents
  - Embedded AI in apps

Ex: OpenAI and Anthropic (non-MS agents)

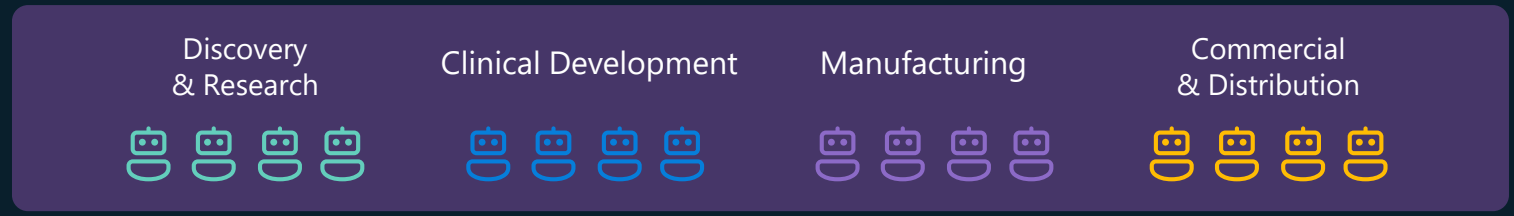
Discovery & Research | Clinical Development | Manufacturing | Commercial & Distribution

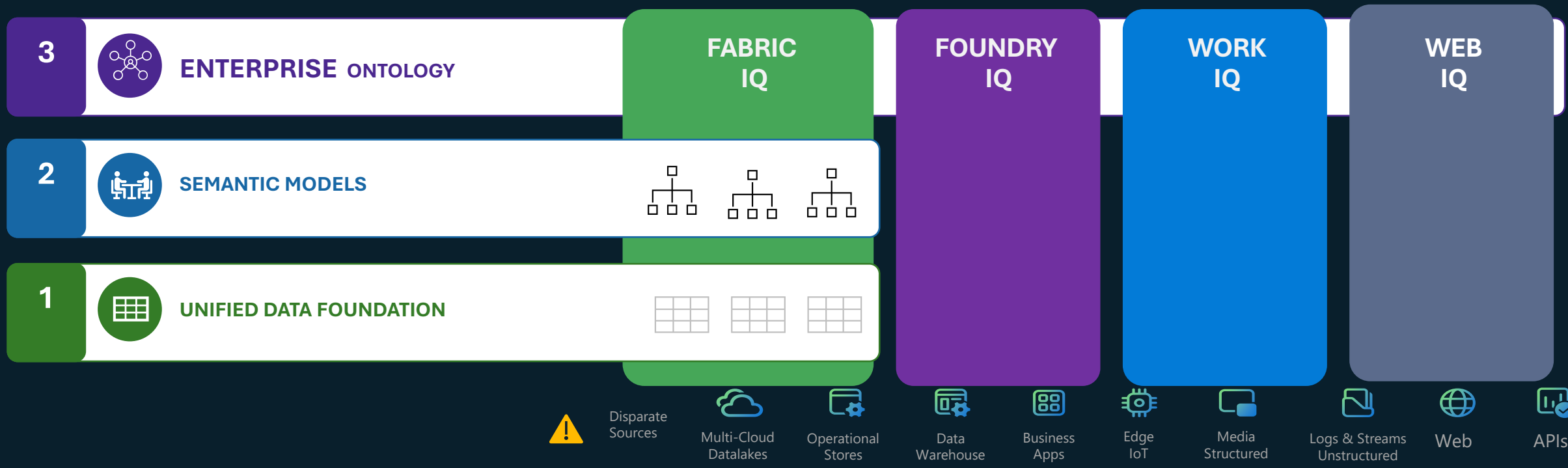


Step 2: add the ontology

Fabric IQ Ontology
Public Preview

- Implement Fabric IQ Ontology on top of existing semantic models and OneLake
- Unify data through OneLake to break down siloes including Databricks and Snowflake
- Use-cases:
  - AI for Analytics
  - Domain multi-agents
  - Cross domain multi agents
  - Embedded AI in apps





LIVE DEMO

Demo (recorded)

From data to decision, end to end



OneLake · Fabric IQ · Foundry IQ · Work IQ

Demo: from data to decision

Preventing a heart-failure readmission inside the 5-7 day post-discharge window

1 OneLake

Is the data connected?

Claims, clinical, pharmacy and social-determinants data in one governed lakehouse and semantic model.

▶ 1:56 demo video

2 Fabric IQ

Who is at risk?

Ontology and a data agent flag high-risk patients and expose medication-adherence gaps in plain language.

▶ 2:37 demo video

3 Foundry IQ

What should we do?

An orchestrator agent pairs the data agent with a clinical knowledge base for evidence-based next steps.

▶ 2:35 demo video

4 Work IQ

How do we execute?

Microsoft 365 Copilot pulls care-team context from email, files and Teams to get the follow-up done.

▶ 2:47 demo video

SAME PATTERN ACROSS HEALTHCARE & LIFE SCIENCES

Care management
Readmission prevention (this demo)

Clinical development
AI site selection and patient recruitment matching

Manufacturing & quality
Agentic deviation triage and CAPA drafting

Commercial & distribution
Cold-chain excursion prediction and triage

All names, companies, personas, and data shown are fictitious and based on synthetic data. No real customer, personal, or production data is used.

Implementation outcome

Dimension	Fabric IQ	Foundry IQ	Work IQ
Primary Question	"Who is at risk?"	"What should we do?"	"How do we execute?"
Core Data	Real-time patient vitals, medications, events	Clinical guidelines, protocols, patient history	M365 collaboration signals, care team workflows
Intelligence Type	Transaction & Operational (real-time monitoring)	Clinical (knowledge grounding)	Organizational (workflow orchestration)
Outcome	"Patient is high risk: weight gain, missed meds"	"Recommend home health visit within 24h [Evidence: ACC/AHA CHF Guidelines]"	“Care manager mentioned the patient in virtual rounding, home visit requested, patient prefers Spanish"

Business Story

THE PLANT

DIGITAL TWIN

We open the plant's Fabric IQ ontology and relationship graph.



ANOMALY APPEARS

Real-Time Intelligence detects a pattern that doesn't match any expected behavior.



WHY IT MATTERS

Foundry consults Foundry IQ knowledge source. It quotes your spec and your customer contract with the citation.



SLA Manual

WHO ACTS & HOW

Work IQ determines and infers who owns it, who's on shift, and how this was handled last time.



Fabric IQ

Semantic Model + Ontology

Provides the structure and relationships of the plant.

Fabric IQ + RTI

Real-Time Intelligence

Detects the signal that matters across systems.

Foundry IQ

Knowledge Bases

Brings in your specs, contracts, and policies with citations.

Work IQ

Work Knowledge

Knows the people, patterns, and past outcomes.

SECTION 03

Trust

The foundation for trusted decision-making

03

- Permissions
- Governance
- Observability

What makes an AI decision trustworthy

1

Grounded in governed data

One copy of data in OneLake, curated in semantic models already used by 35M+ people every month.

Fabric IQ | OneLake

2

Shared business meaning

An ontology defines entities, relationships and rules, so agents reason over how your business works, not raw tables.

Fabric IQ | Ontology

3

Permission-aware by design

People only see what they are allowed to see, even when retrieval spans the whole organization.

Foundry IQ | Work IQ

4

Auditable and observable

Data agent prompts are logged in Purview, and Agent 365 adds a registry, access control and observability for agents.

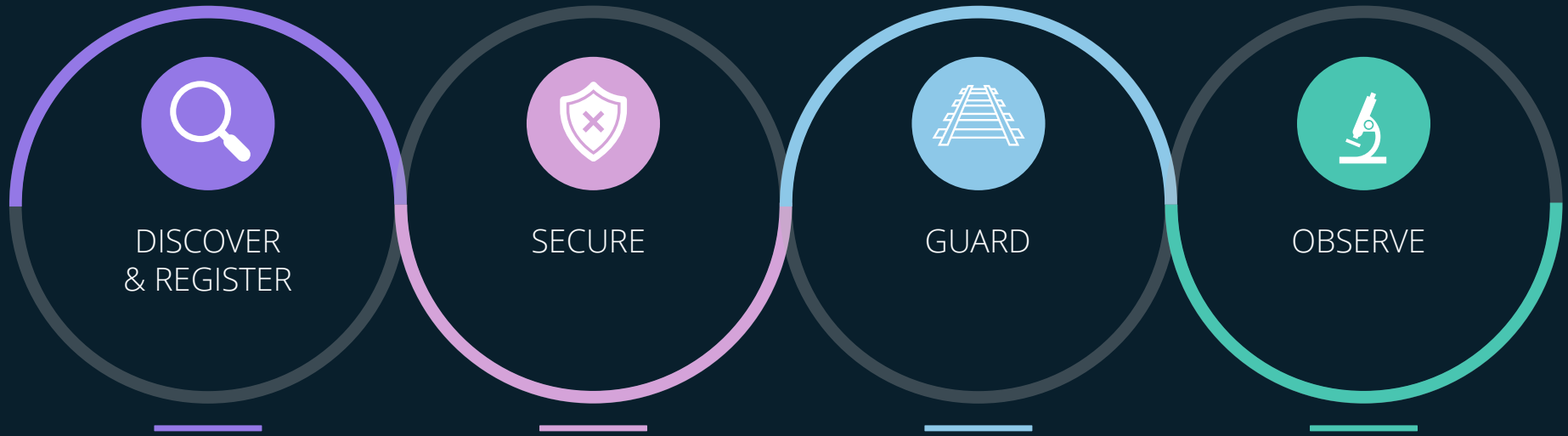
Purview | Agent 365

Trust is architectural: design permissions, governance and observability into the first use case, not the go-live checklist.

AI Operational Excellence

OPERATE

Keep production AI reliable, secure and compliant



Registry & Lifecycle

Every agent found, identified and owned through retirement

Security & Compliance

Identities, data and models protected and audit-ready

Runtime Policy & Safety

Policy and safety enforced on every request

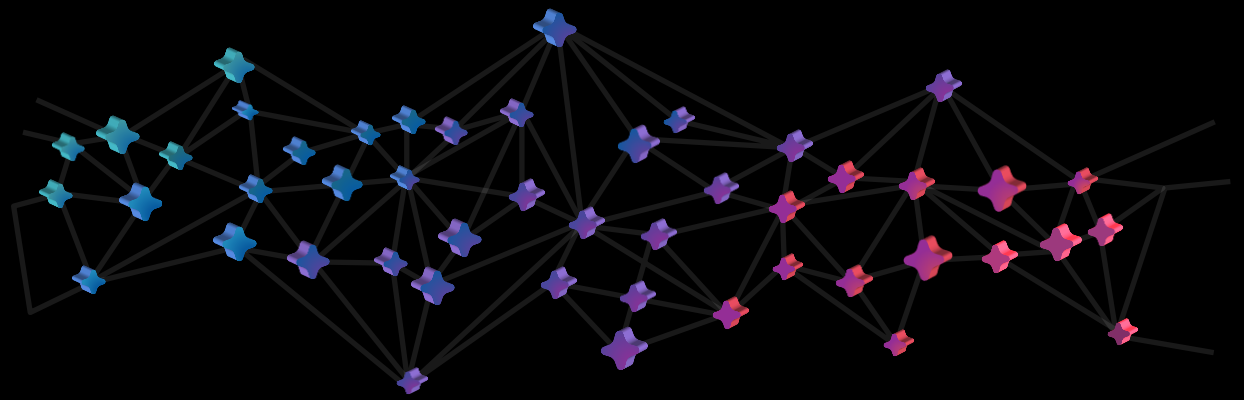
Runtime & Observability

Every agent traced, evaluated and costed

One operating model: every agent known, protected, governed and measured

Agent 365 – Observability at every layer

The control plane for agents



Registry

Access Control

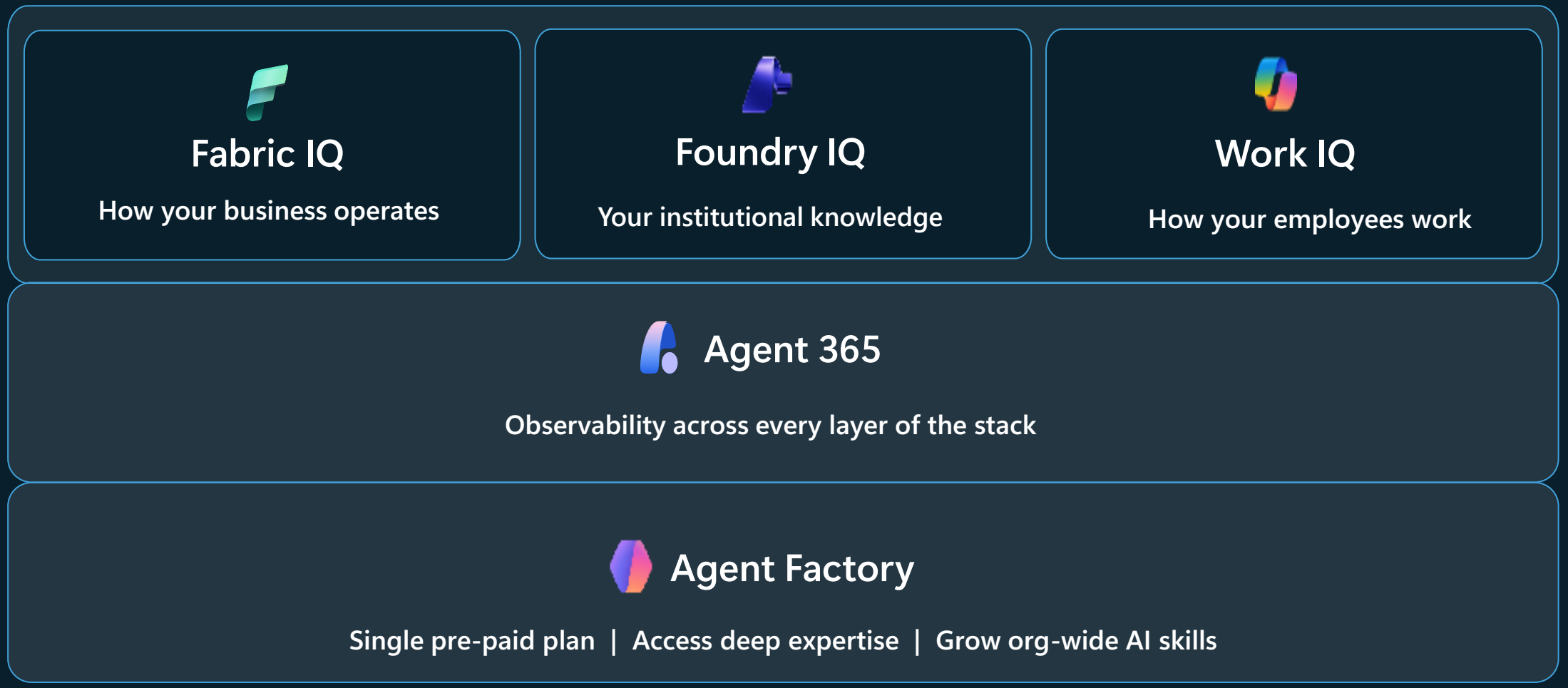
Visualization

Interoperability

Security

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Empowering Frontier Transformation



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SECTION 04

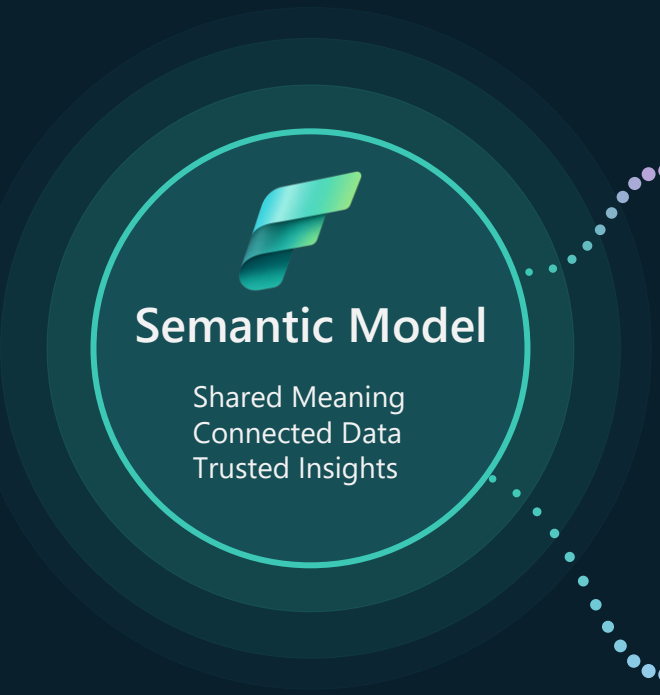
Closing

Key Takeaways to Accelerate AI adoption with Microsoft IQ

04

SCENARIOS

Accelerate AI Adoption



SCENARIO 1

Copilot + Agents

M365 Copilot & Data Agents

From trending to forecasting, correlation, etc.

- Extend Business Intelligence to AI
- Ask your data in plain language, grounded in the semantic model

enriches Copilot + Agents

SCENARIO 2

Ontologies + Agents

Microsoft IQ + Microsoft Foundry

Domain Multi-agent solutions

- Foundry agents reason over shared business ontologies
- Multi-agent orchestration

Key takeaways and where to start

THREE THINGS TO REMEMBER

1

Business context is the differentiator

Fabric IQ, Foundry IQ and Work IQ turn data, knowledge and workflows into one intelligence layer.

2

You already have a head start

Certified semantic models are the foundation. Unlock them now with Fabric IQ MCP and data agents, then add ontology (public preview).

3

Trust is architectural

Permissions, governance and observability belong in the first use case, not the go-live checklist.

WHERE TO START THIS WEEK

1. Pick one decision that is made too late today: readmission risk, trial-site selection or deviation triage.
2. Inventory your certified semantic models and knowledge sources.
3. Pilot a Fabric data agent on one governed domain, then add a Foundry IQ knowledge base.
4. Name owners and guardrails: registry, access and observability.

CONTINUE TODAY

Unified Data Foundation · Trusted AI · Activating Data with AI Agents · Code Better, Build Faster

Questions & discussion

Microsoft IQ: Turning Data into Enterprise Intelligence

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TO GET US STARTED

- Which decision in your organization is made too late today, and what data would change it?
- Where do your certified semantic models and knowledge sources live today?
- What would you need to see before putting an agent in front of clinicians or scientists?

Does your data platform do this?

Unify
operational, analytical, and business data

Detect
problems and opportunities in real time

Reason
over every type of context, from data to communications

Analyze
across every mode of analysis, from graph to geospatial

Serve
queries from agents at machine scale and speed

Act
across your business to carry out the decisions

Govern
your data, context, decision, and action

Microsoft

Thank you

