



# Building Organizational North Star for scaling AI Initiatives

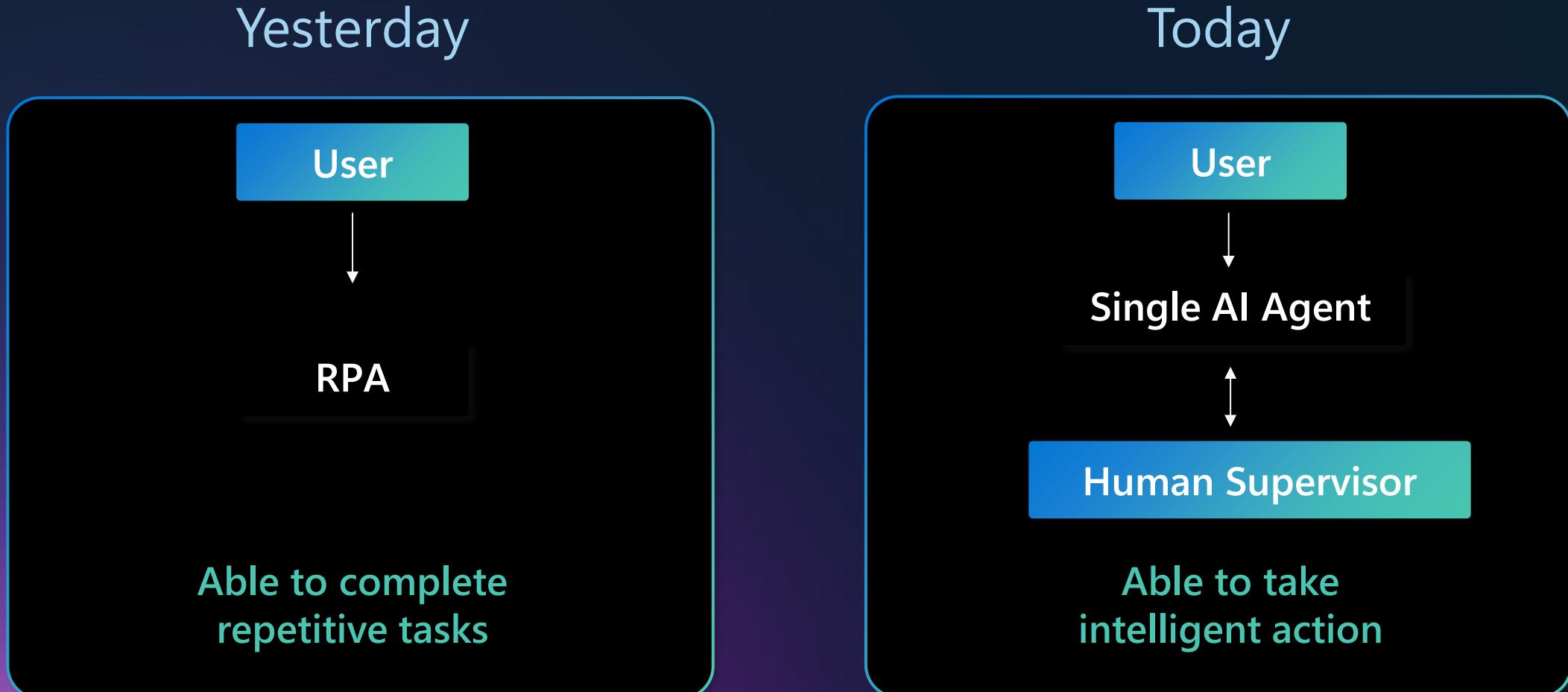
Marc-André Poitras  
Federal Lead  
Cloud & AI Platforms  
Customer Success

# AI is transforming the world

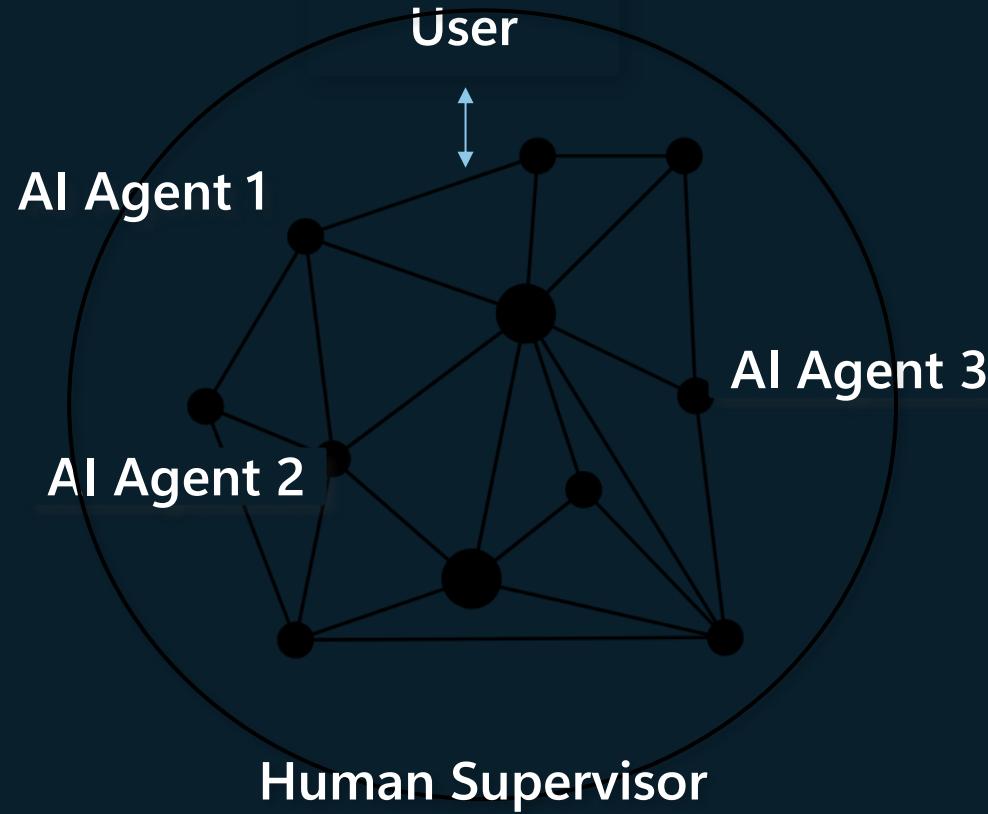


**“A new era of digitization is unfolding—in which AI continuously learns and drives new levels of autonomy across organizations”**

# Where we are now: Reactive, single-purpose, simplistic AI and automation

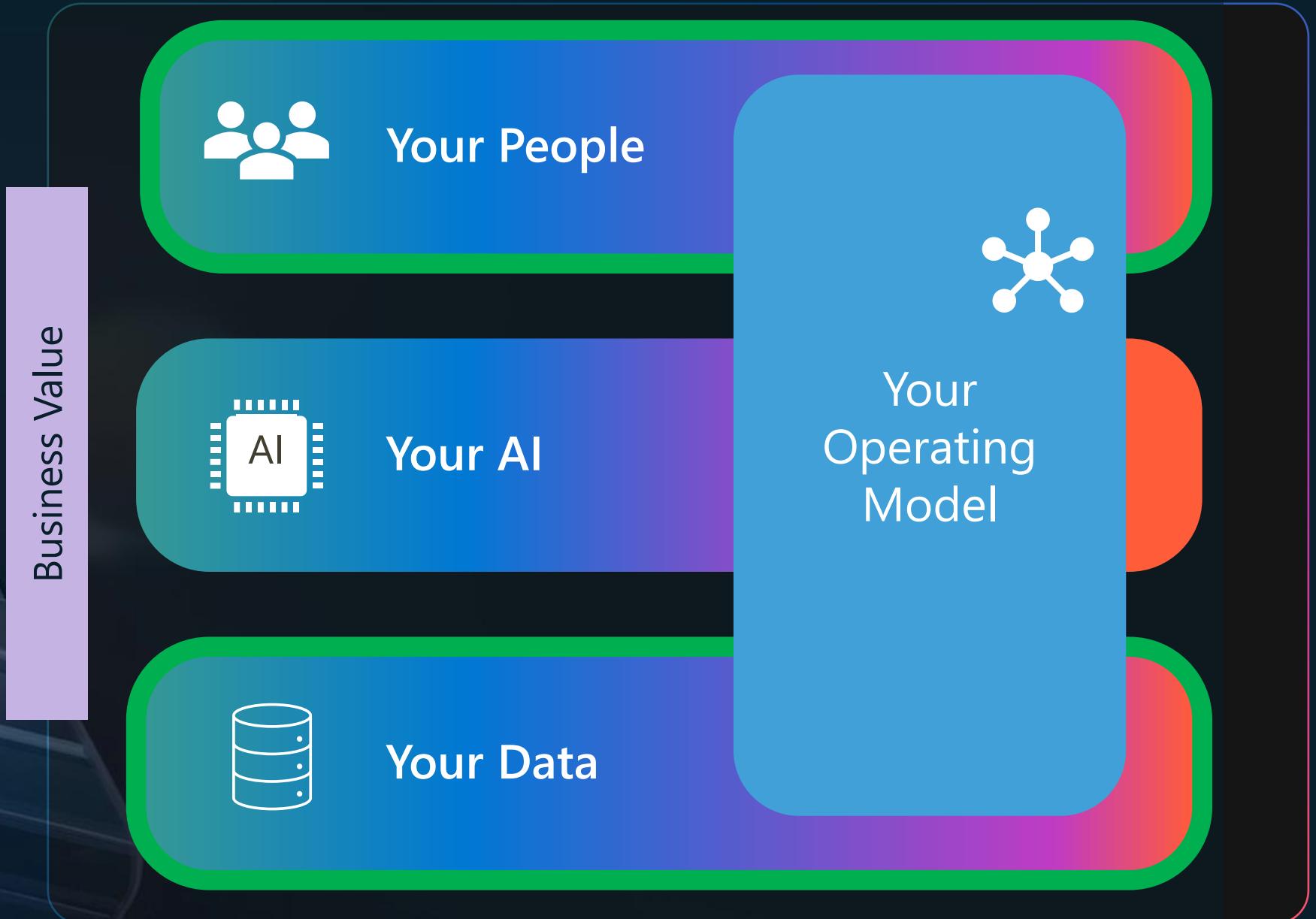


# Where we're headed: autonomous, adaptive, experiential AI

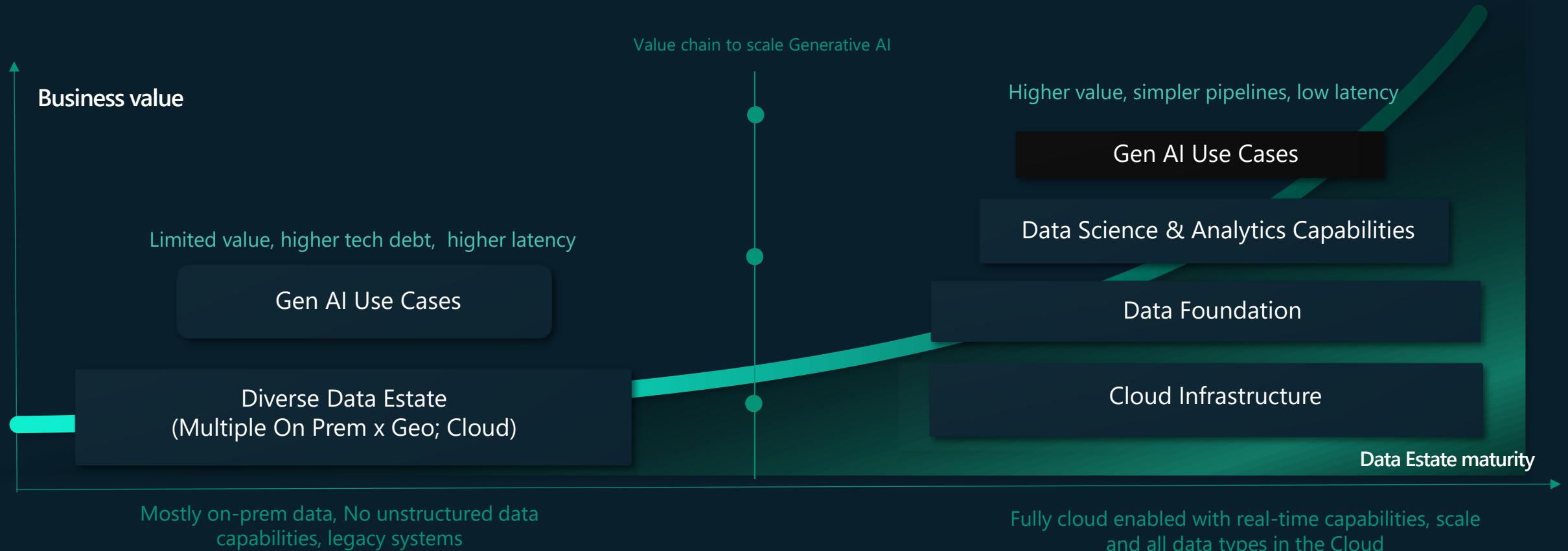


Able to **collaboratively solve** complex tasks

# AI Transformation Primitives



# Data Foundation in the AI Era



Modernize your data and legacy infrastructure



Envisioning future state; assess readiness of data and app estate and create roadmap



Innovate with AI and Cloud Native Services in every application



Empower your business users by democratizing AI and analytics

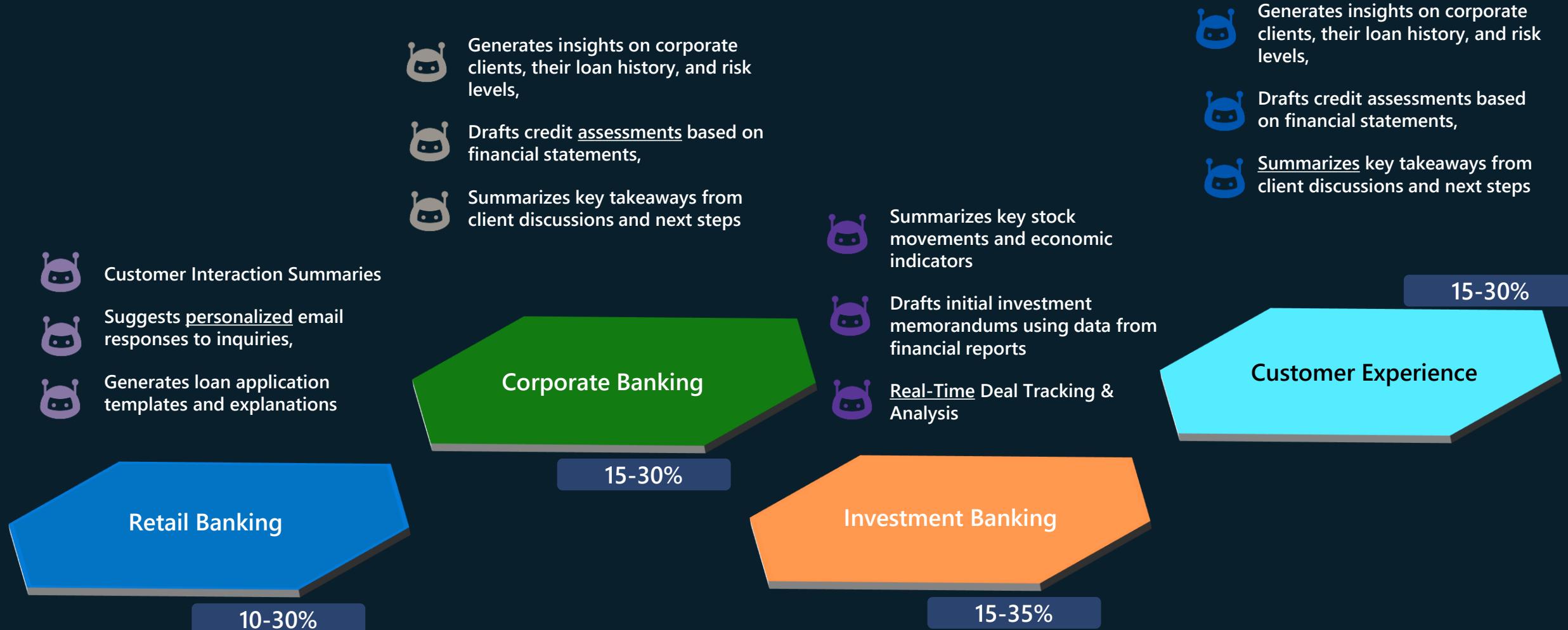
# Let's imagine a multi-agent system...

## Autonomous Agents



# Drive value through capabilities

Scale your AI agents aligned to the needs of your business units and domains



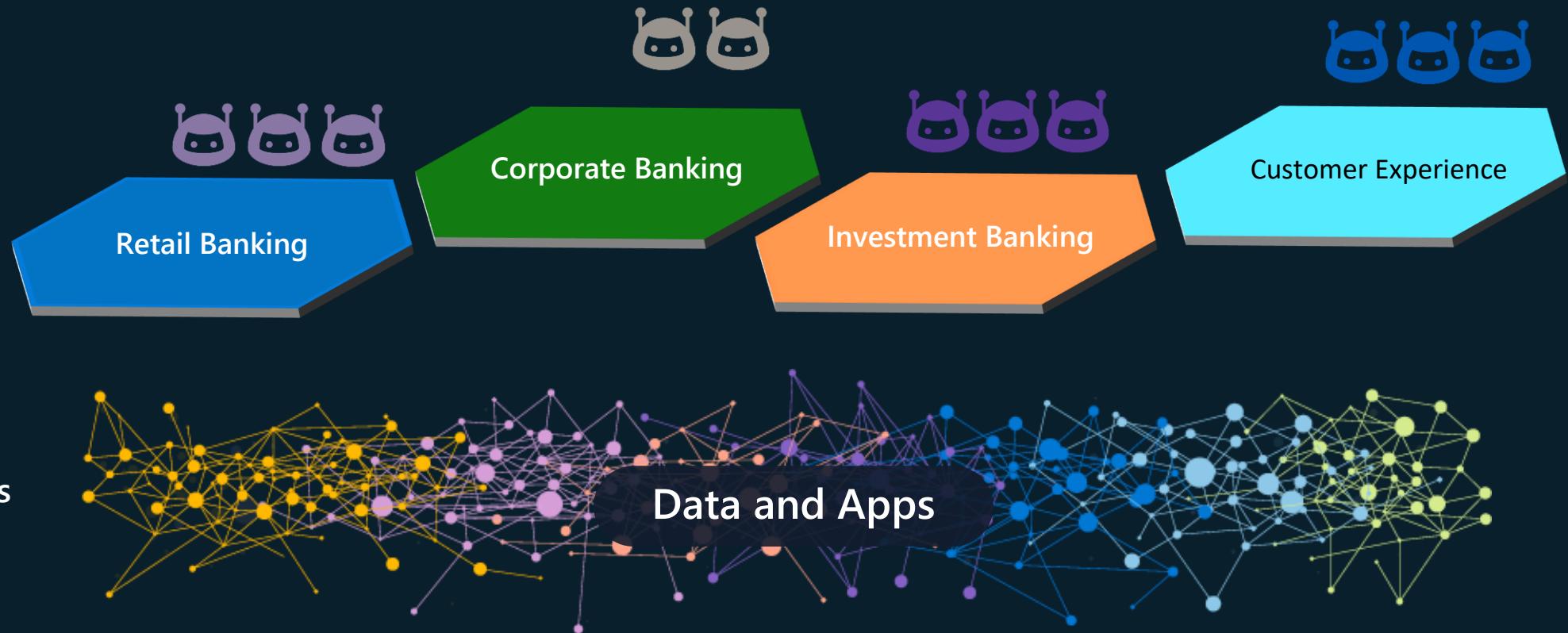
# Current Challenge #1:

Solutions are not designed to connect directly to these sources at scale!



# Current Challenge #2:

More data are consolidated in disparate sources, creating additional silos.



⚠ Failed attempt to  
re-use data leveraging  
disparate platforms



Multi-Cloud  
Datalakes



Operational  
Stores



Data  
Warehouse



Business  
Apps



Edge  
IoT



Media  
Structured



Logs & Streams  
Unstructured



Web

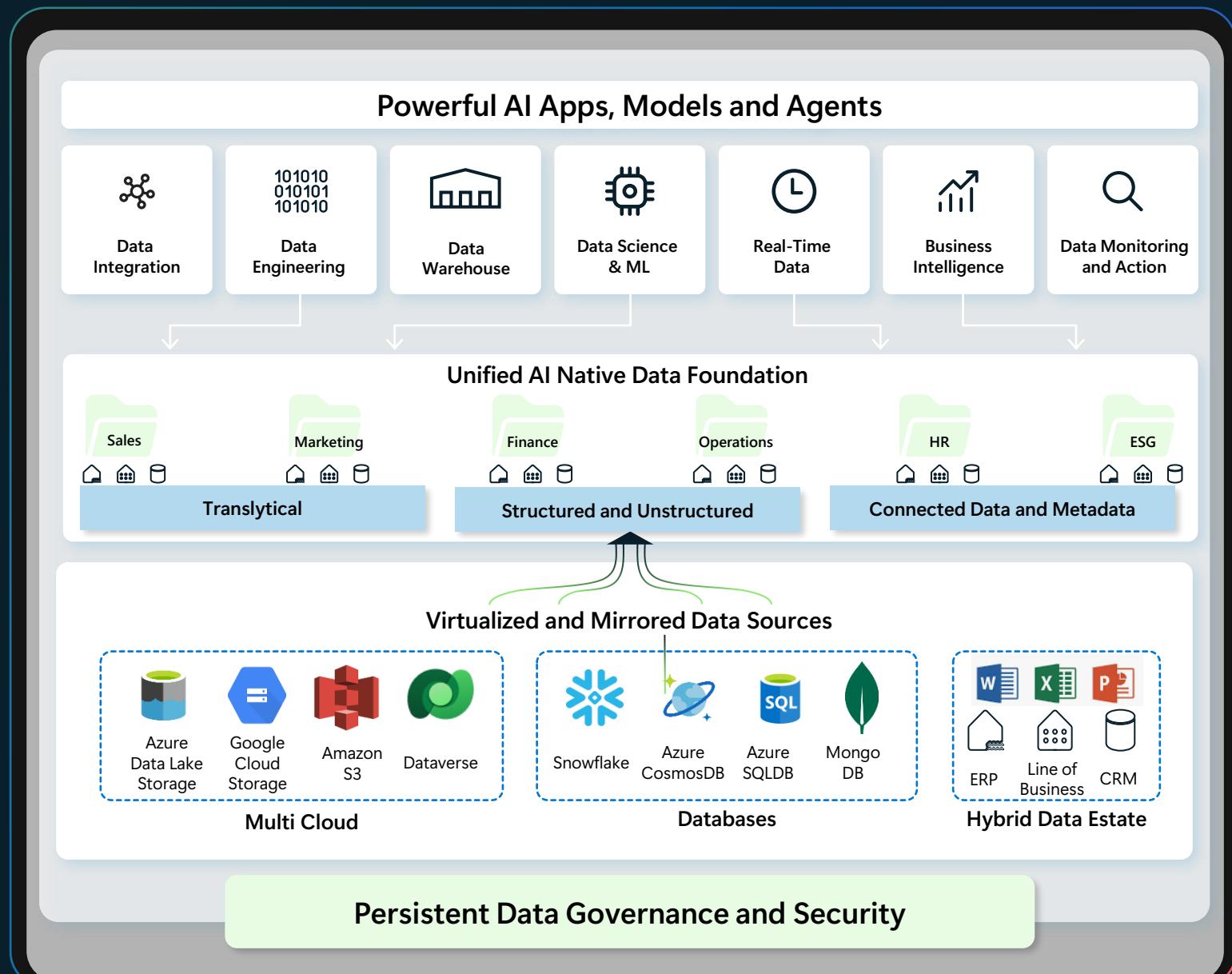


APIs

# How can we **implement & scale** given current challenges?

Data estate build on open and governed data lake

**Businesses need a unified, intelligent data estate built on an open and governed data lake.**



# How can we implement & scale given current challenges?

## Step 1: Unify your data to become re-usable

- Adopt open formats so that data can be reusable to all use cases (AI, business intelligence, etc.)
- Consolidate following lakehouse solutions with aligned computes and capabilities
- Leverage shortcuts and mirroring technologies to avoid data duplication and movements

Data Governance,  
Security, and Compliance

Unify Data



# How can we implement & scale given current challenges?

Step2: Automate data operations to improve data agility and quality

Data Governance,  
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Data Management

Unify Data



# How can we implement & scale given current challenges?

Step 3: Enable domains with data and resources they need to implement use-cases.

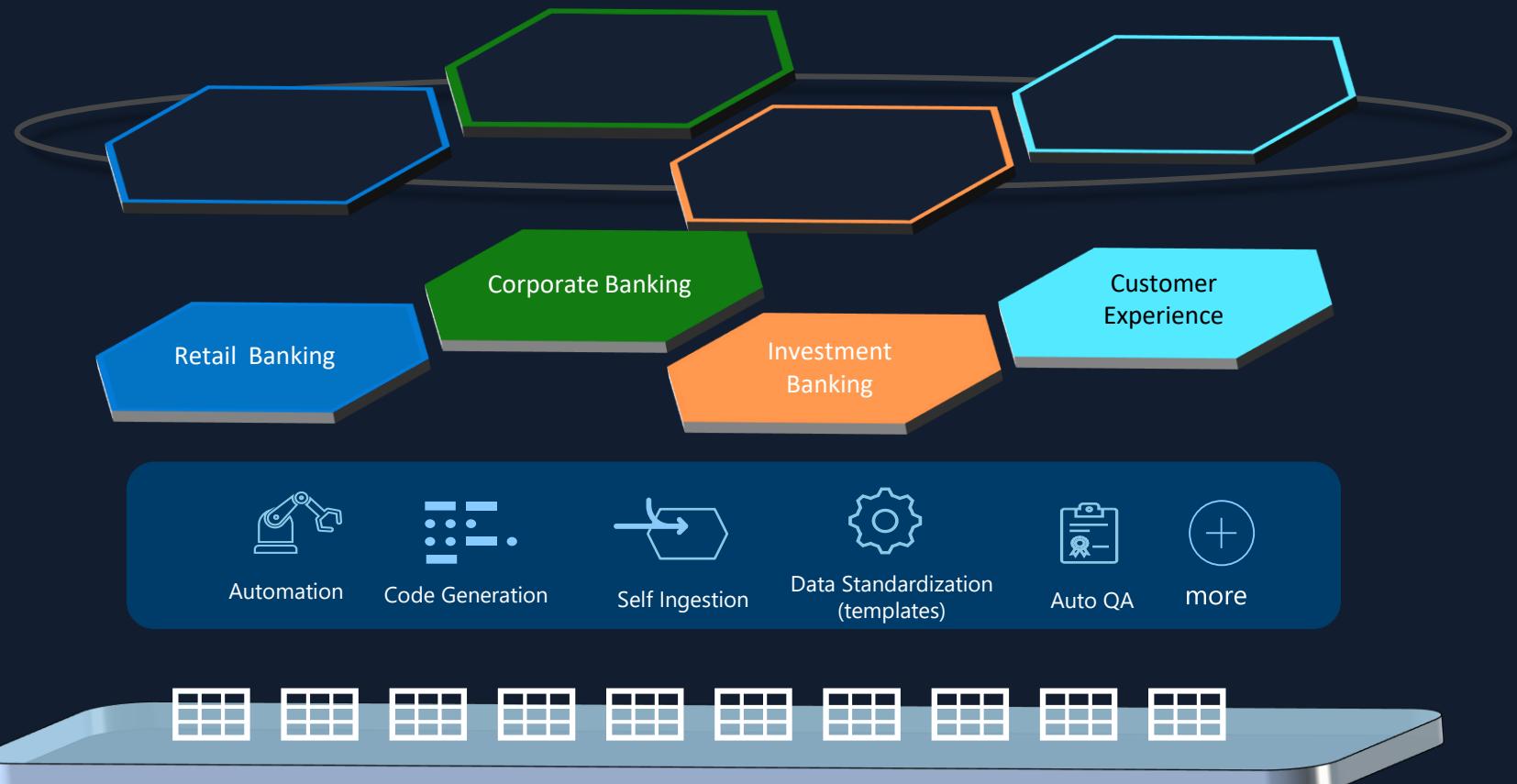
- Focus on building reusable data products that emphasize business functions and values.
- Identify business processes that can be automated using AI.
- Collaborate with other domain owners to integrate data products and AI agents being developed.

Data Governance,  
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Data Domains

Data Management

Unify Data



# How can we implement & scale given current challenges?

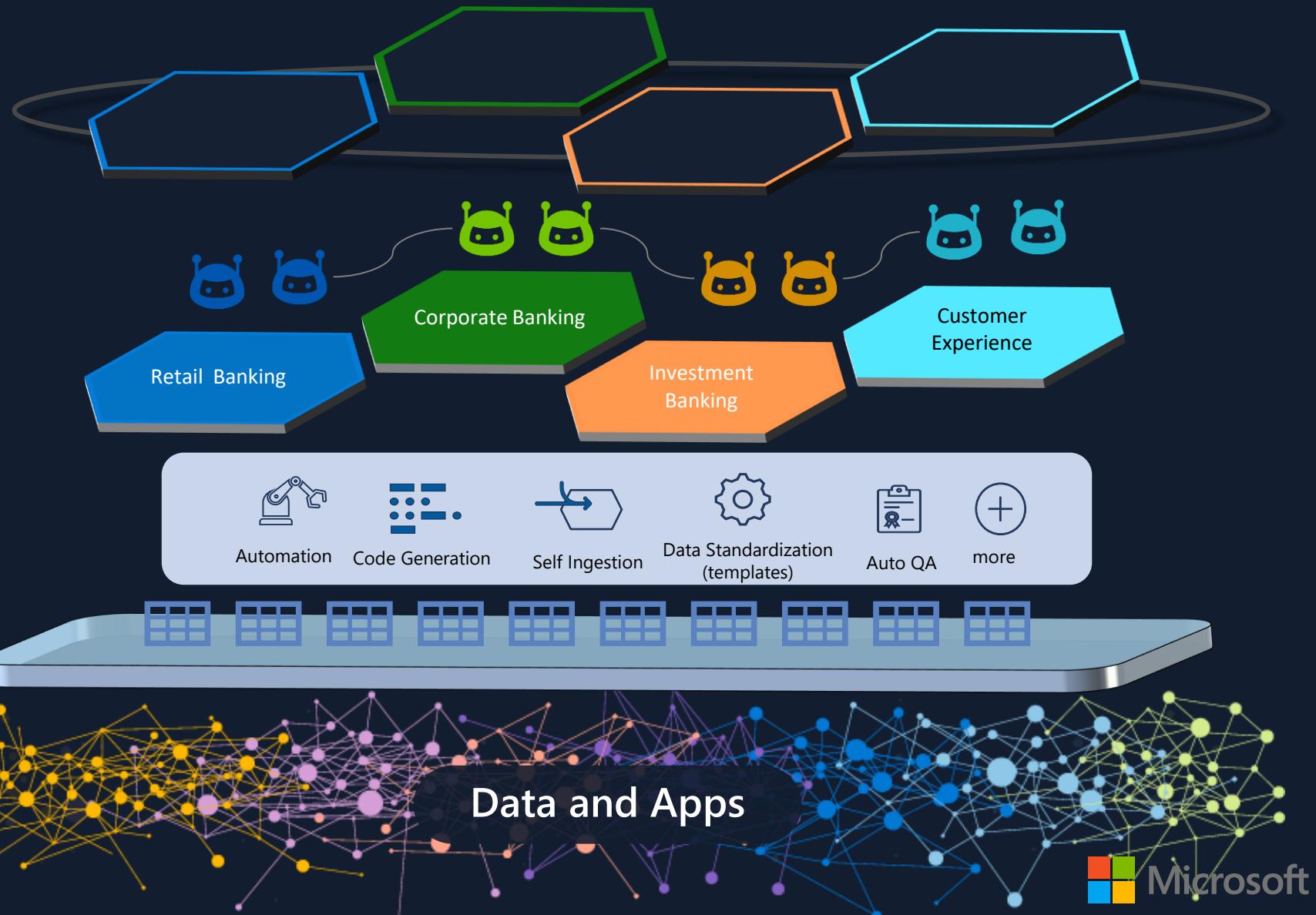
Implement a durable data foundation.

Data Governance,  
Security, and Compliance

Data Domains

Data Management

Unify Data



# Data & AI Foundation

AI

DATA

## D&A Governance, Security & Compliance

❑ Pre-built capabilities: Multi-modality, content safety

❑ AI Orchestration: Prompt Flow, LangChain, etc.

❑ Model customization and tuning: Model Selection



### Responsible AI

- Explainability
- Content Safety
- Bias & Fairness
- Etc.



### Operationalization

- Experiments
- ML\LLMops
- Agent Gov
- Evaluation

Data Domains

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Unify Data

# Microsoft Data & AI Foundation

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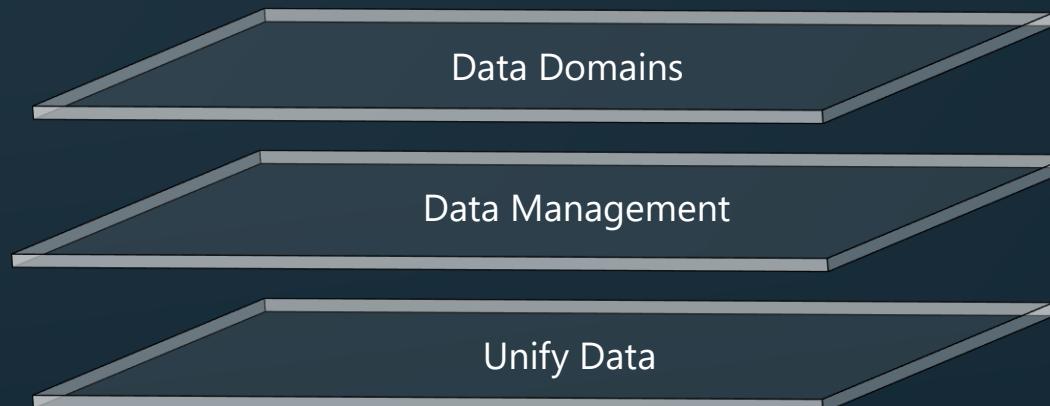
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### Operationalization

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Purview



AI Foundry



Fabric



Azure  
Databricks



OneLake



Thank you!