# The Future of Integration 2025



Introduction to Confluent and Data Streaming

#### Presented by Confluent



**Italo Nesi** 

Sr. Solutions Engineer



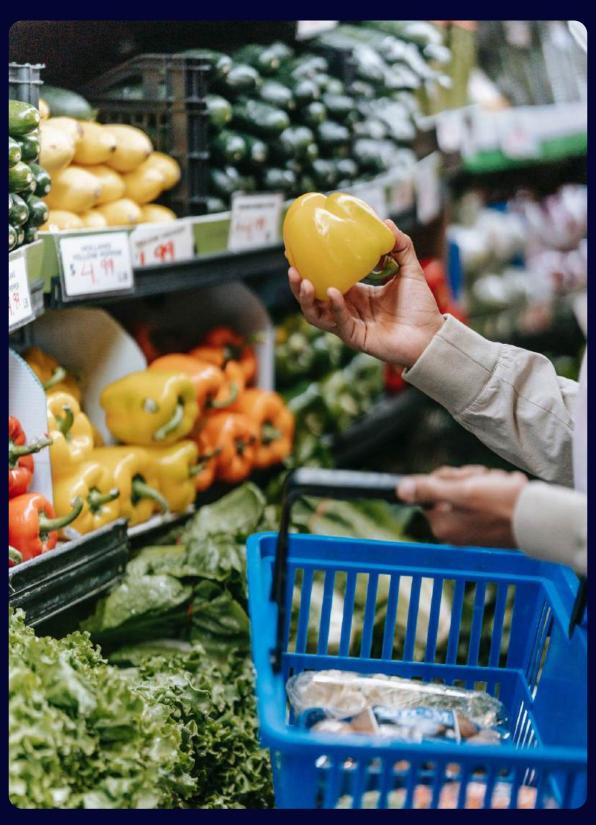




Igniting business greatness in every integration

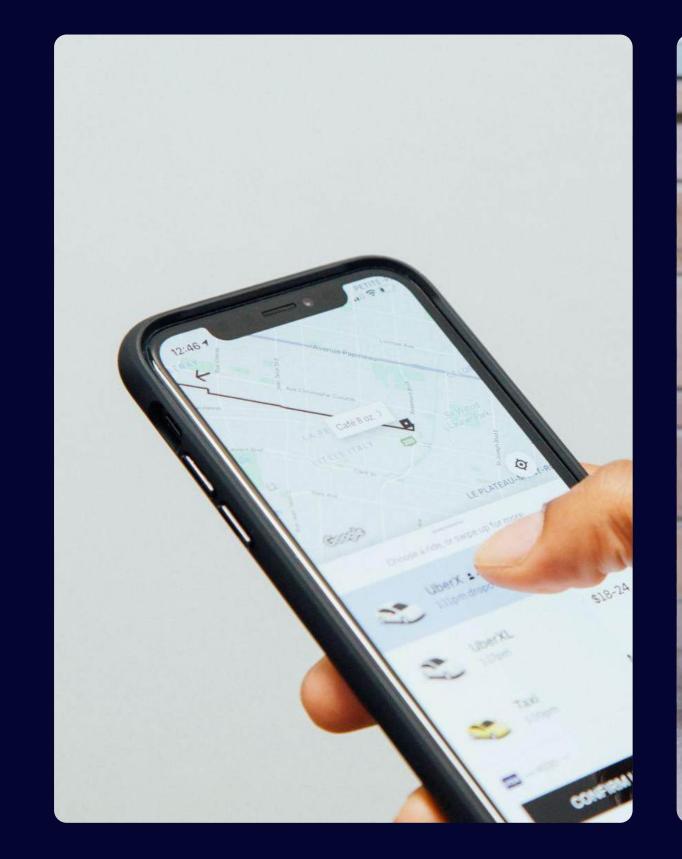
# Software is changing every aspect of life



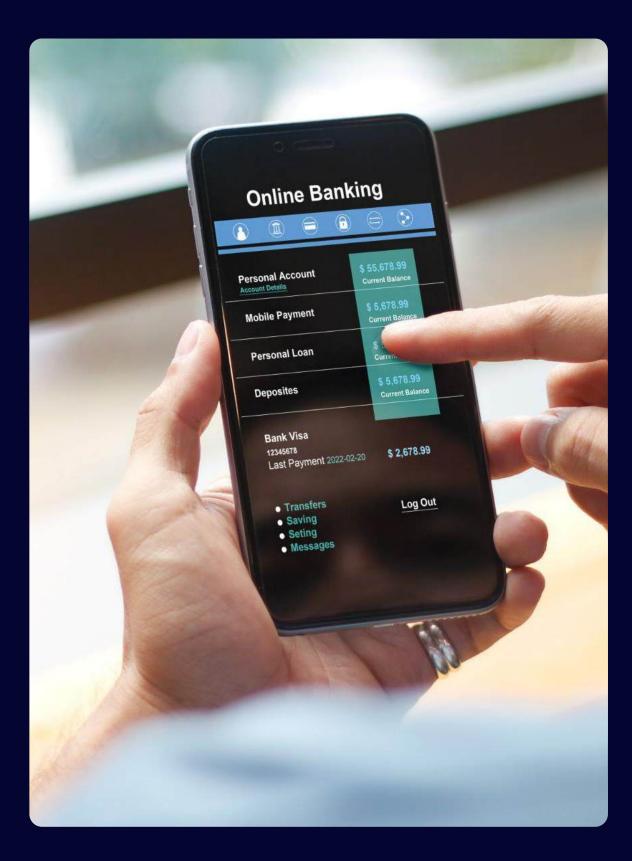




# Software is changing every aspect of life







"10% increase in data accessibility will result in more than \$65 million additional net income for a Fortune 1000 company"

— Forrester





#### Italo Nesi

Sr. Solutions Engineer @ confluent.io

## Agenda

- 1. Event-Driven (data) Architecture (EDA)
- 2. Confluent Cloud's Data Streaming Platform
- 3. Integration with SAP
- 4. The future of Data Streaming

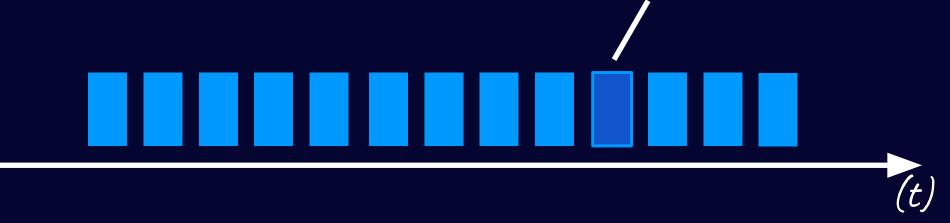


# Event-Driven (data) Architecture (EDA)

# **Event-Driven Applications**

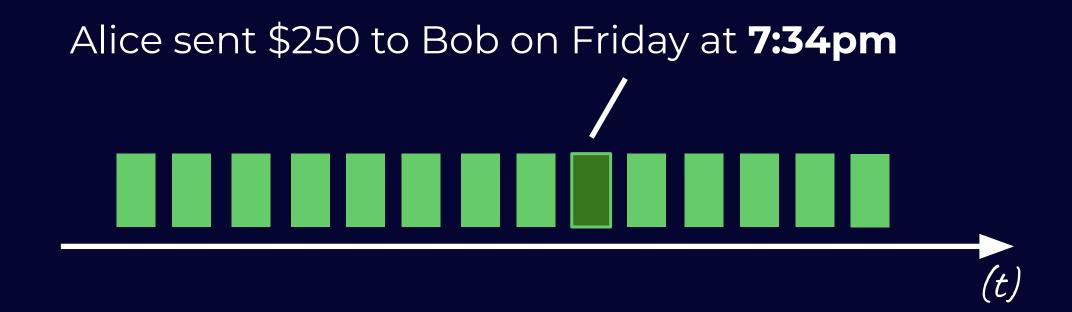






Events are past
 occurrences, containing a
 payload and a timestamp
 and are immutable by nature

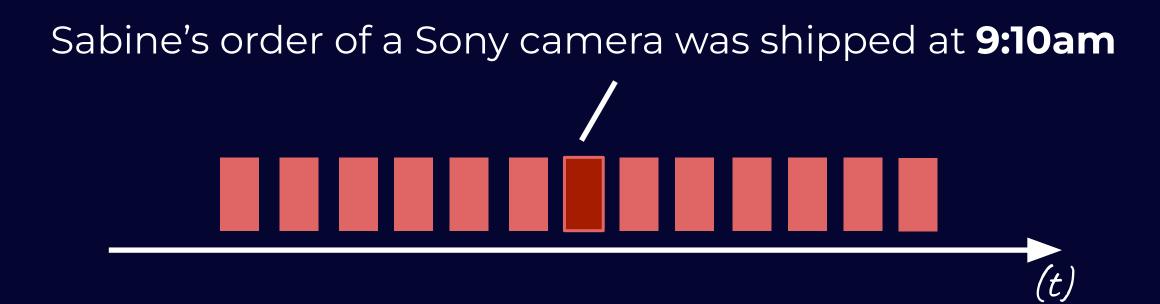




→ The publisher of the event has no expectation about how the event is handled

→ The consumer(s) of the event decide what to do with it





→ Data as a First Class Citizen

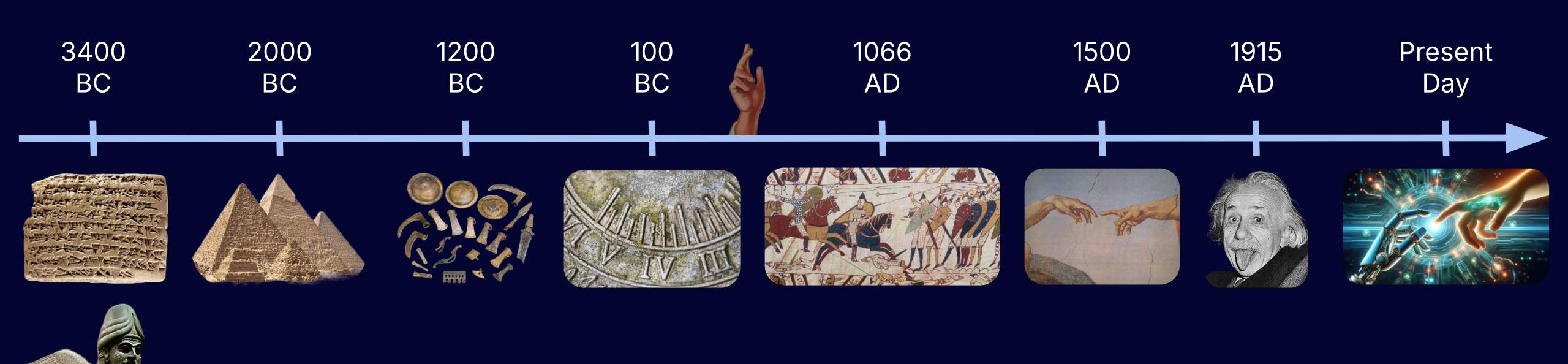


### Quiz time!

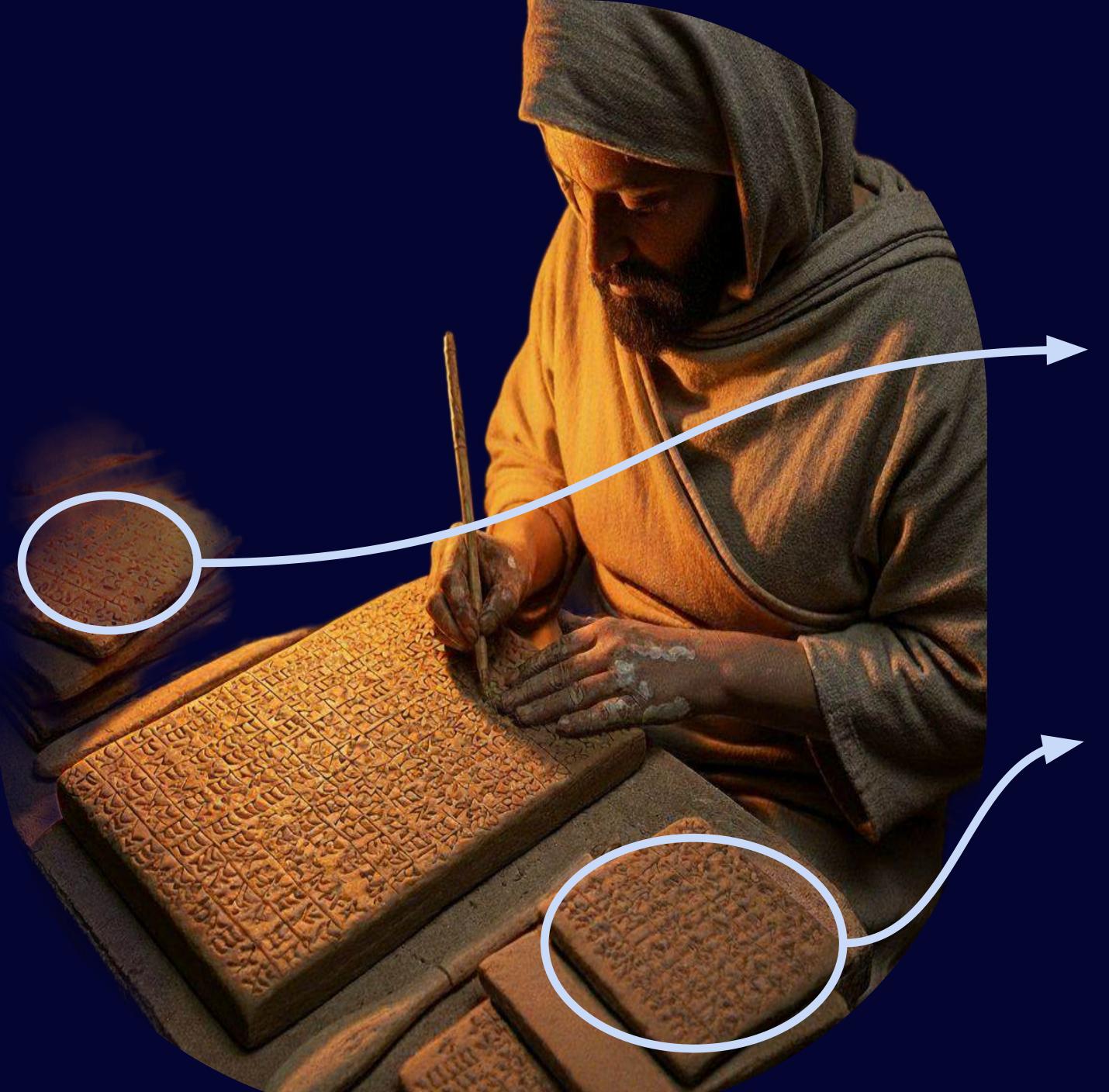
How old is the concept of Event-Driven data Architecture (EDA)?

- A. 5 years
- B. 55 years
- C. 550 years
- D. 5,500 years

# Timeline







29,086 measures of barley, received over 37 months.

Signed, Kushim.

Urazagnuuna received from Nirnbati 21 sheep, 2 lambs, 36 kids, which have passed inspection.

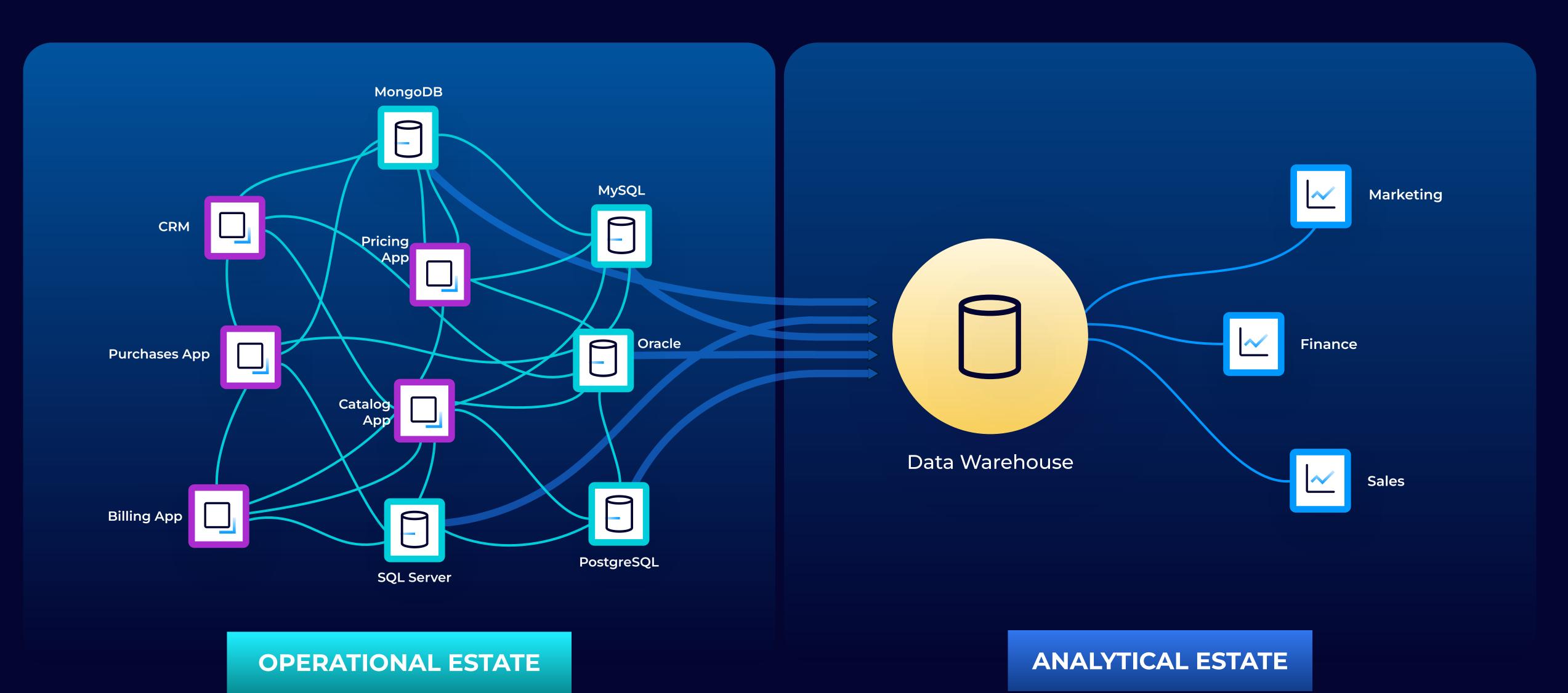
# Beyond Storage: Event Retrieval in EDA



The foundational assumption of every database Data is at-rest



# Database Sprawl: A Legacy of Technical Debt

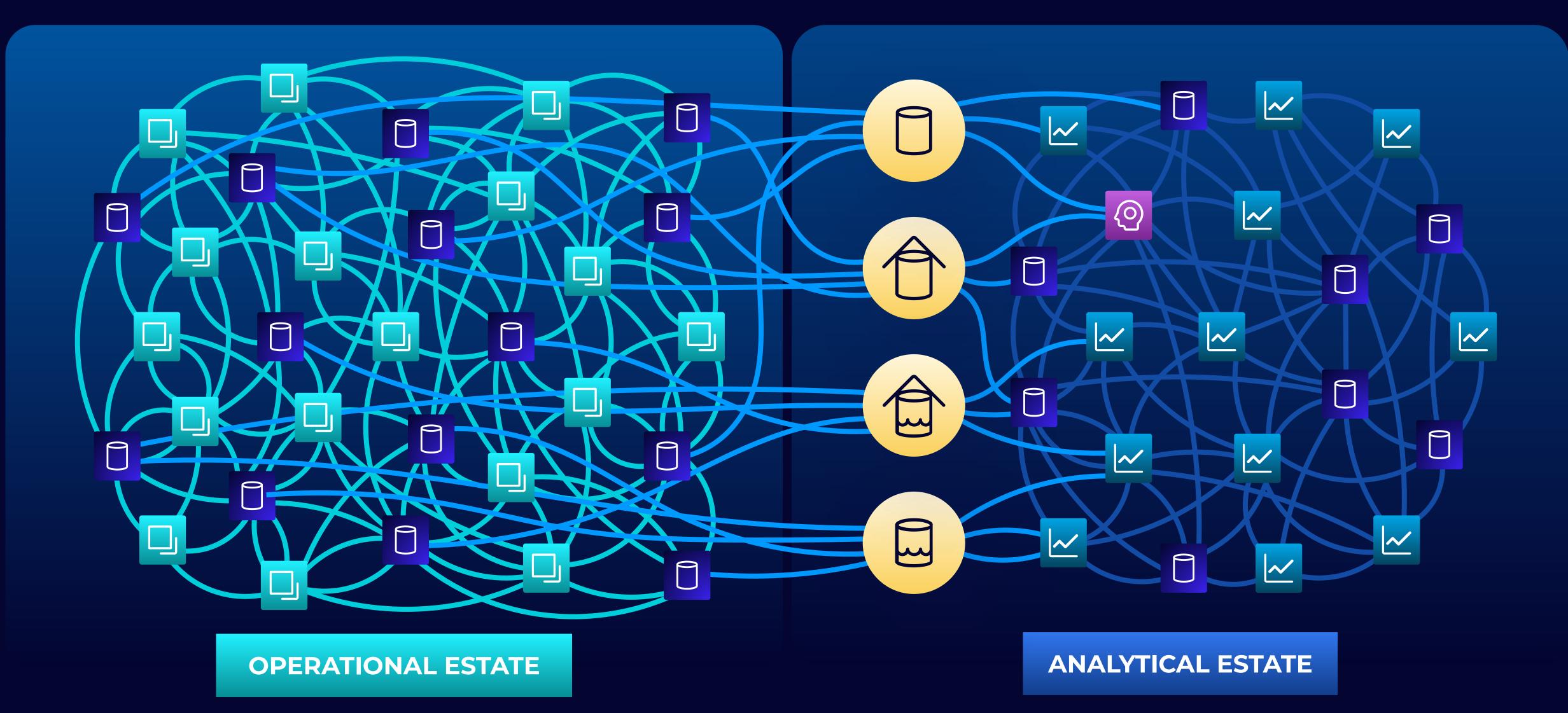


Serve the needs of applications to transact with customers in real-time

Support after-the-fact business analysis and reporting for various stakeholders



# The Spaghetti Mess of Database Proliferation



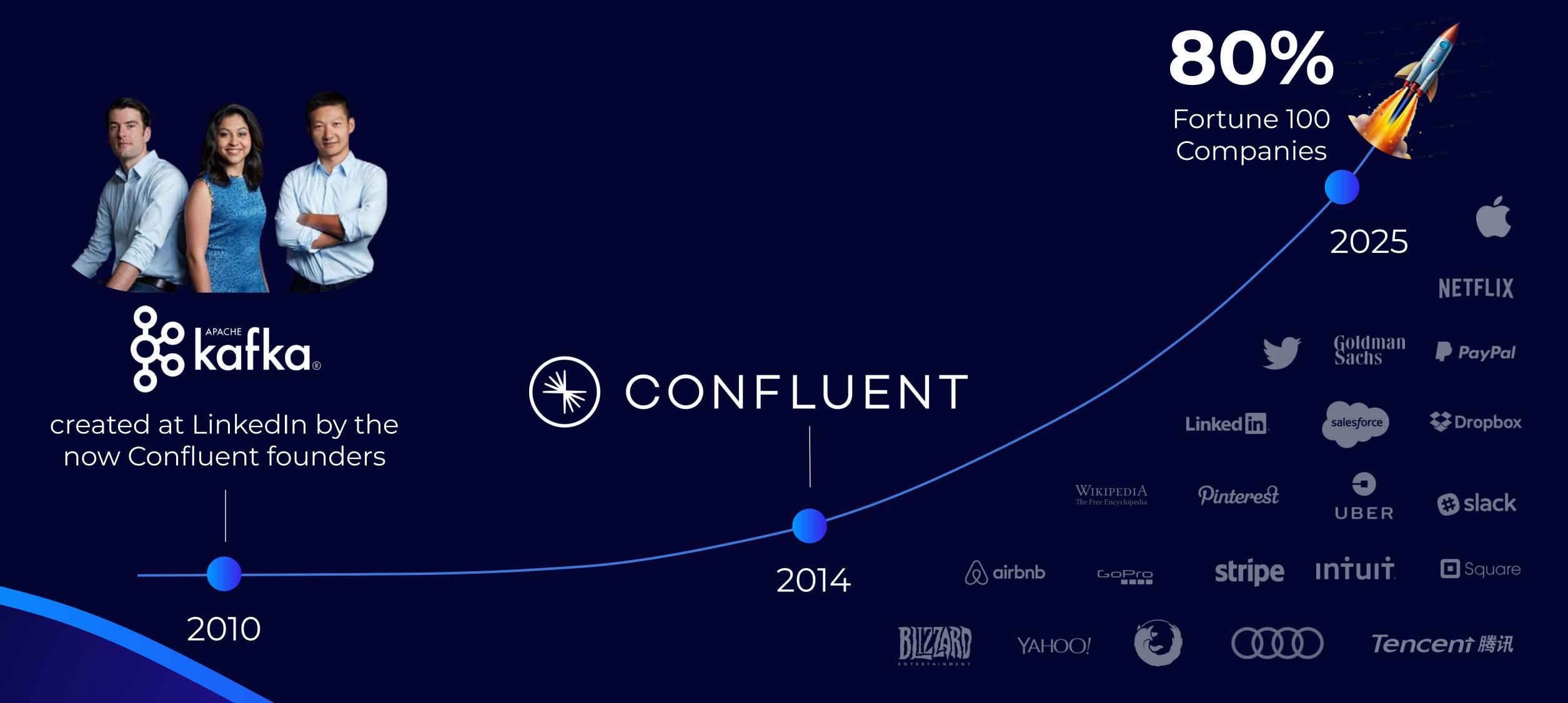
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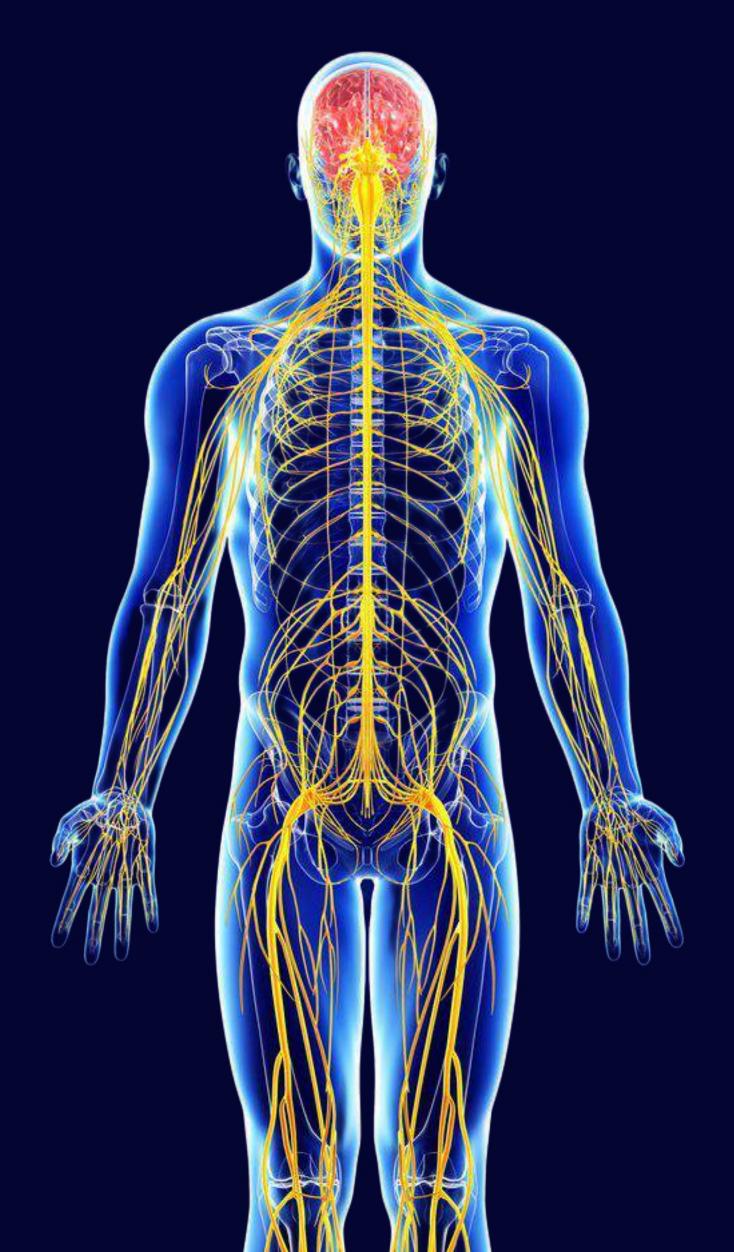
# Confluent Cloud's Data Streaming Platform

# A New Dawn: Data Streaming's Origin at LinkedIn



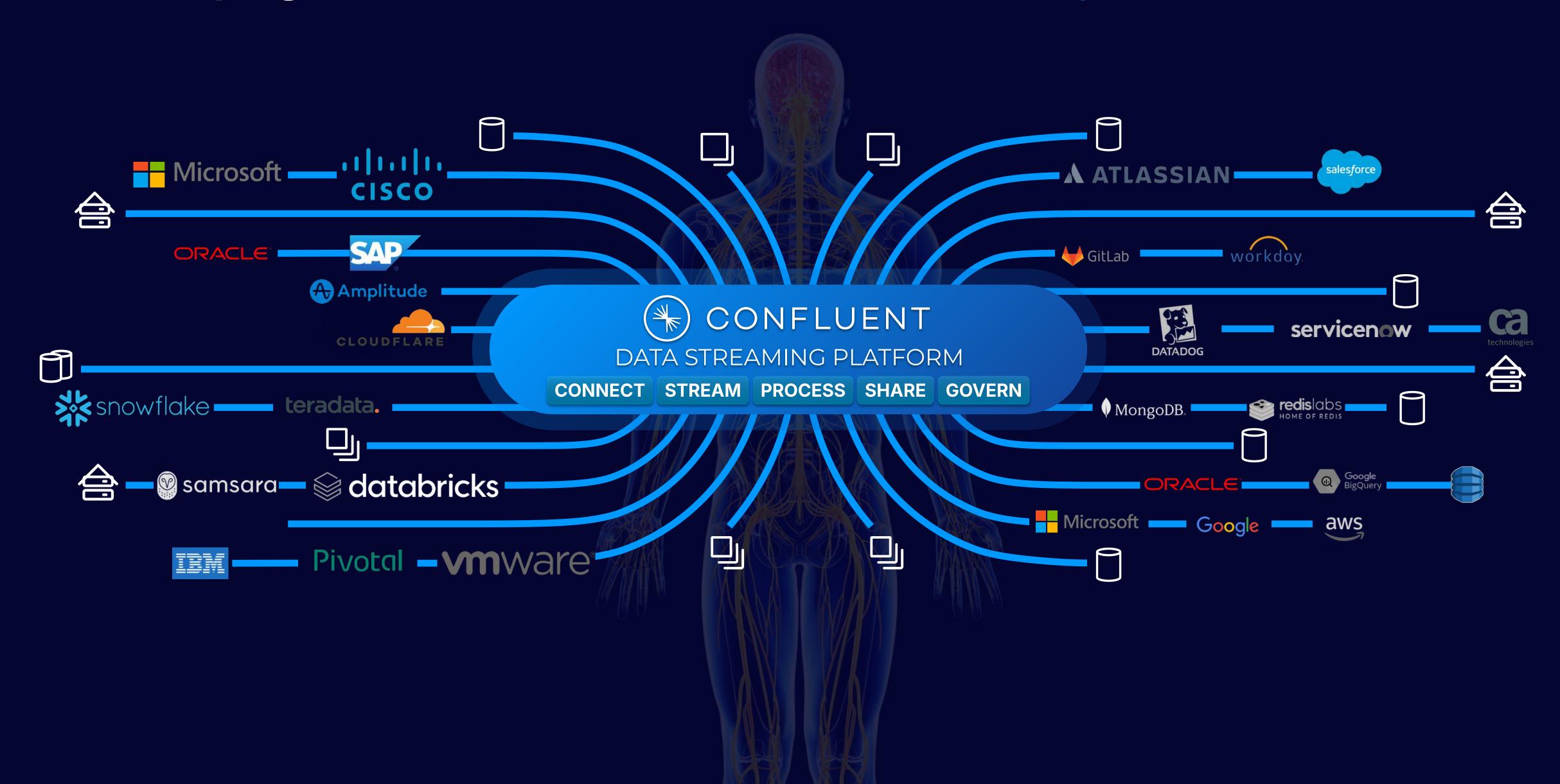


# From Spaghetti Mess to Central Nervous System



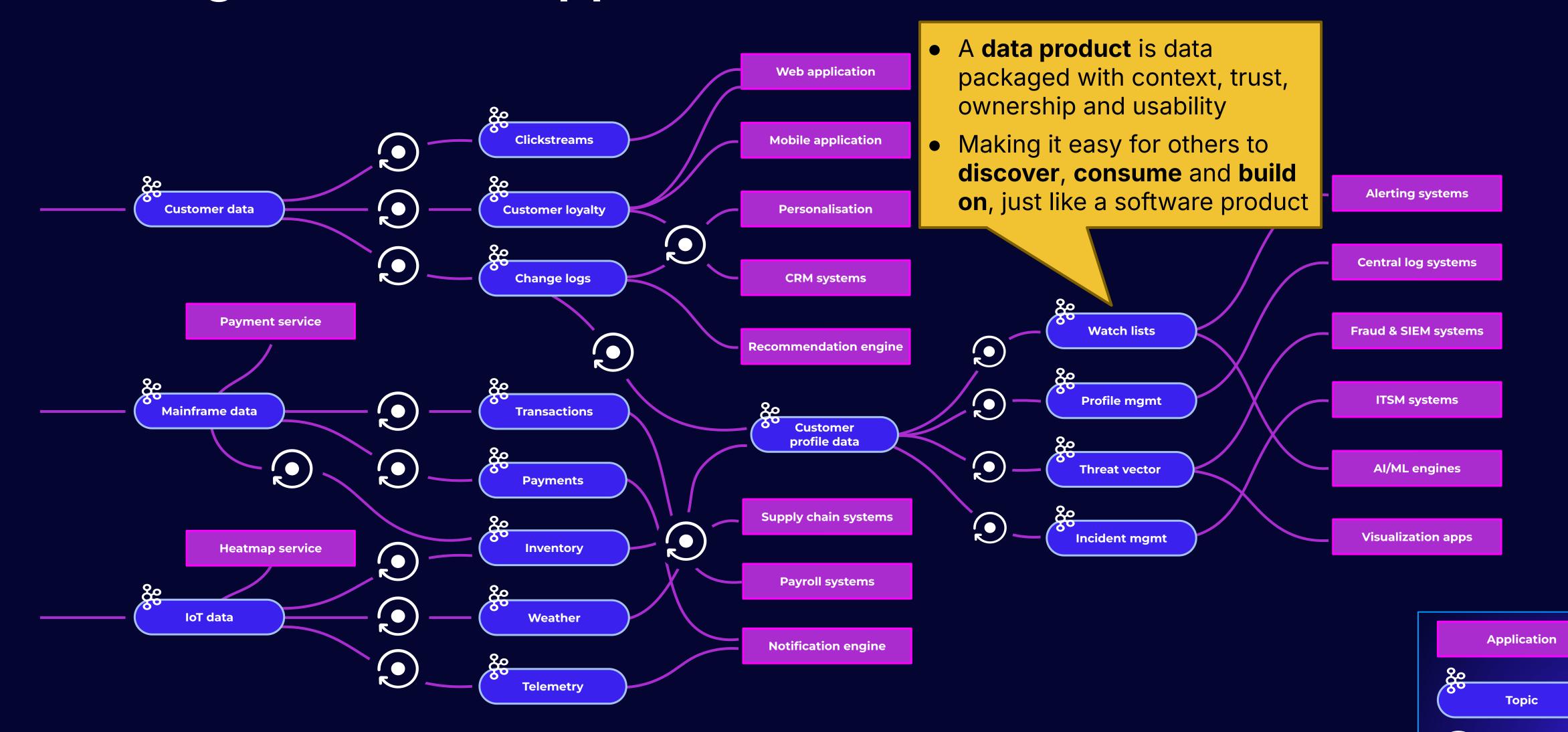


# From Spaghetti Mess to Central Nervous System



**Stream Processor** 

# Stream Processing: Powering Real-Time Applications and Data Products



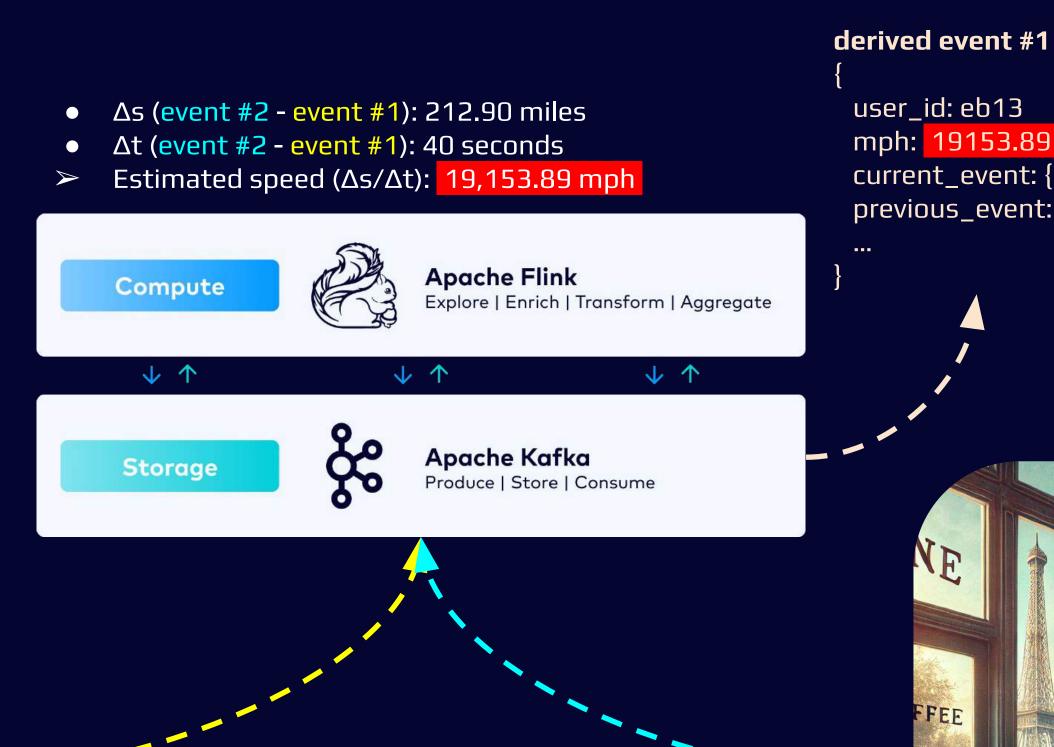


Fraud

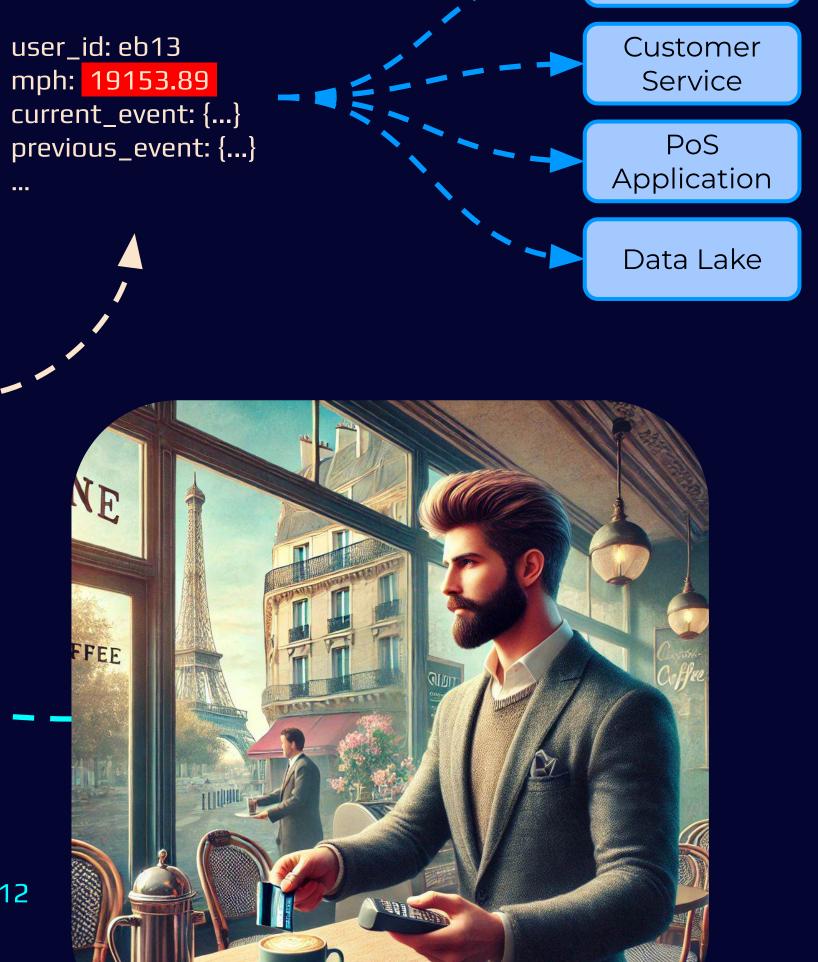
# Fraud Detection (real use case)







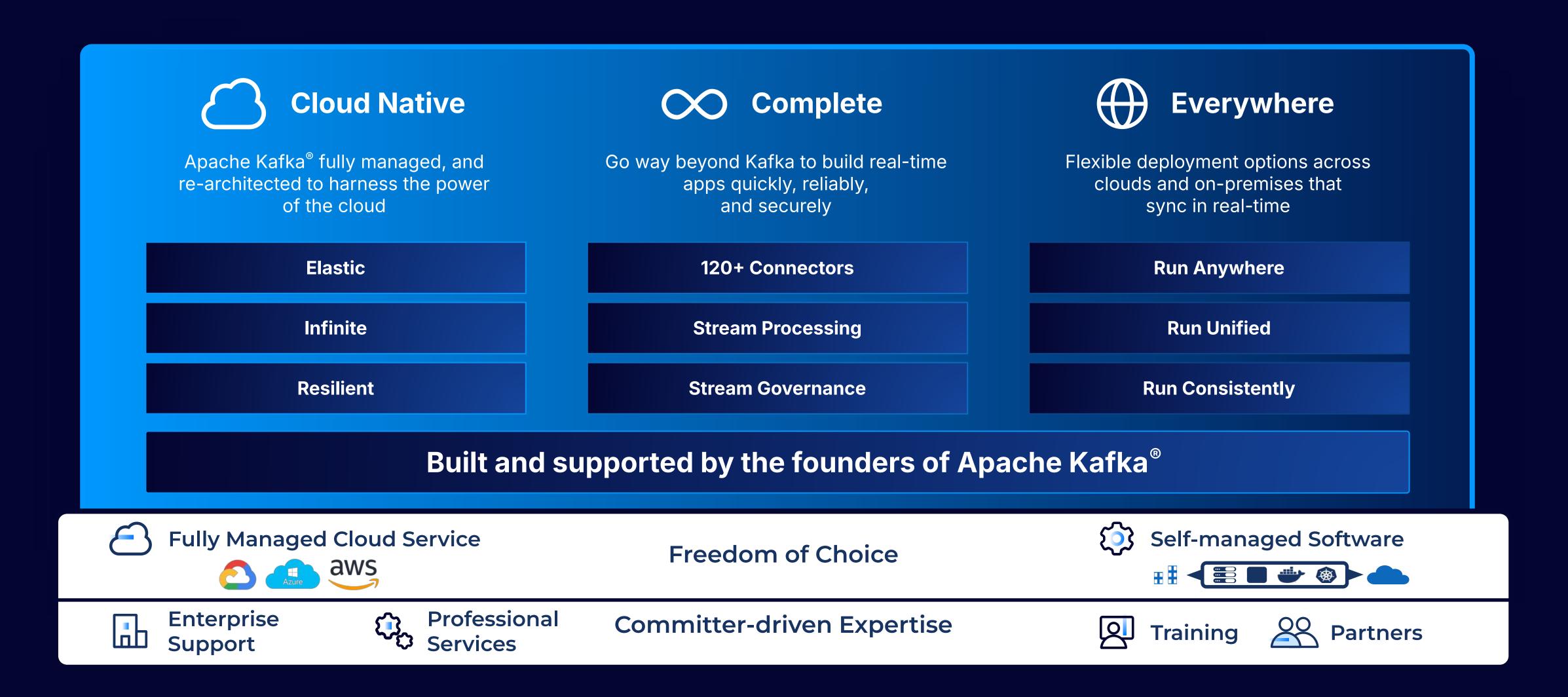
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# The Confluent advantage

Create a digital central nervous system for your enterprise

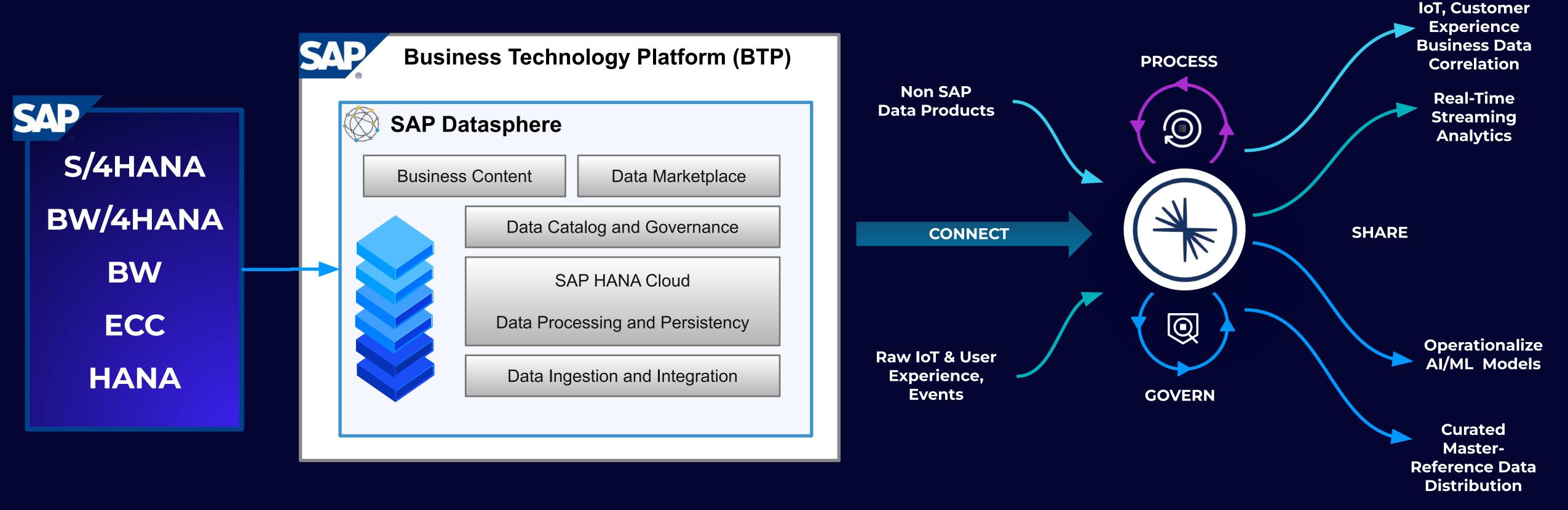




# Integration with SAP

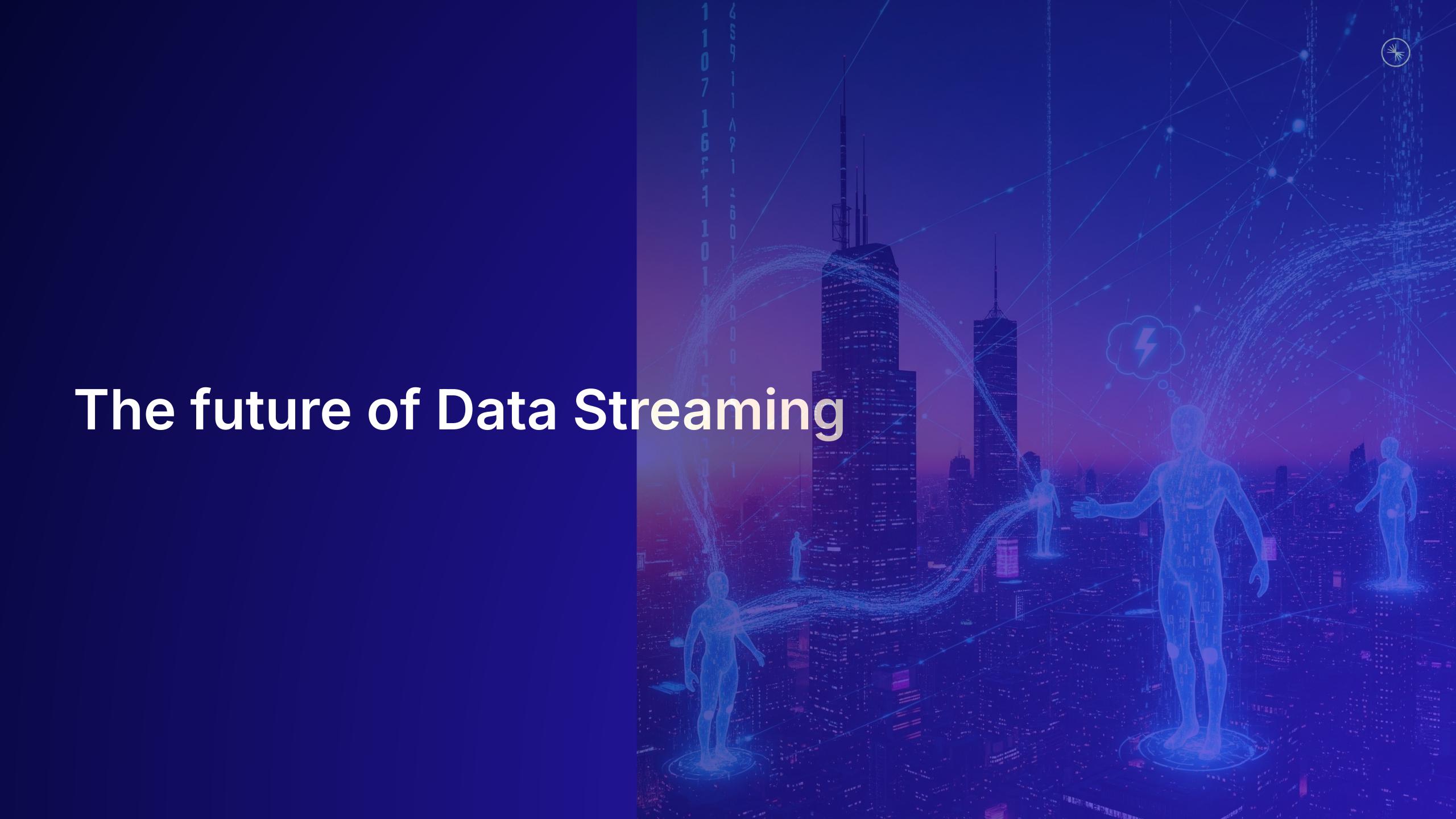


# SAP Datasphere with Confluent Cloud



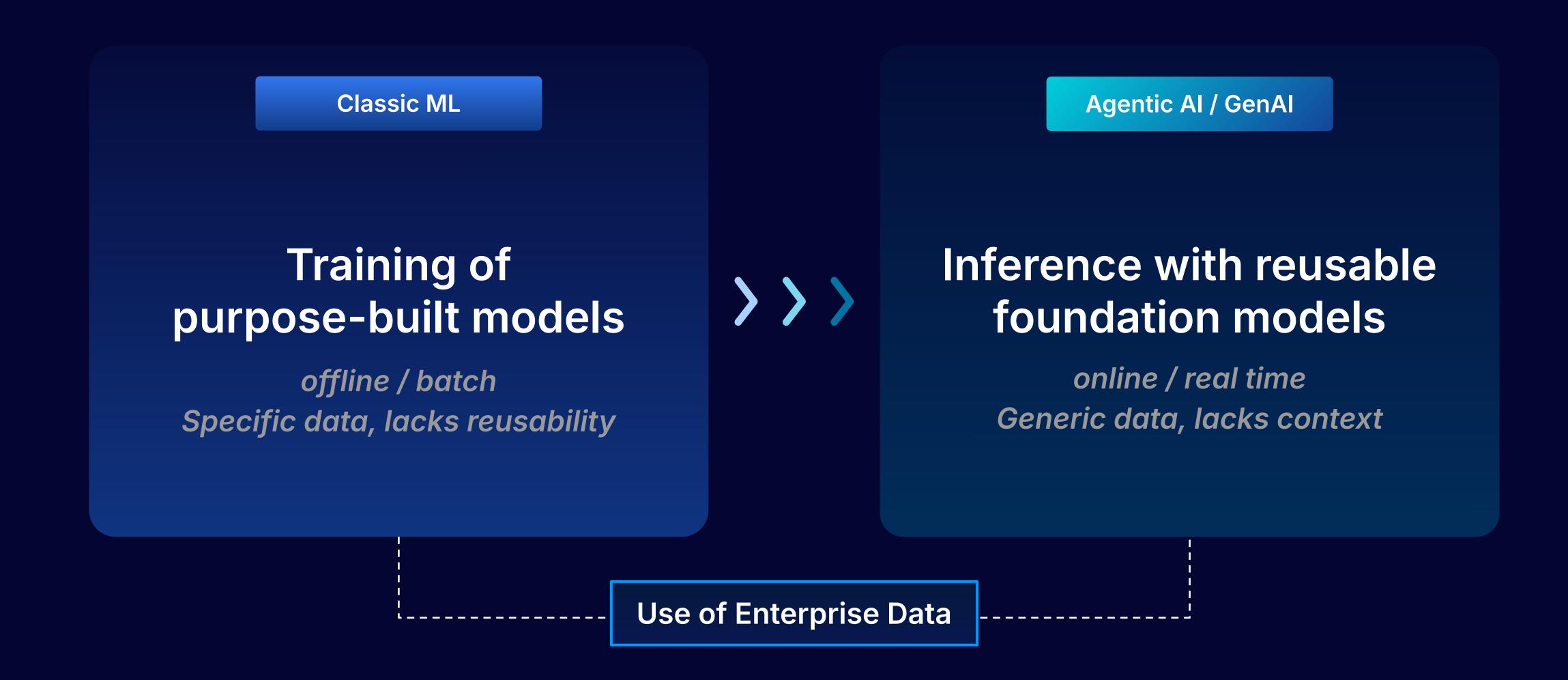


Easily fuel intelligent, real-time applications and analytics with enterprise-wide data accessed through the SAP business data fabric





# The key to agentic Al isn't building better LLMs... ... It's data readiness





#### **Data Sources**



IUT

Browser, Mobile

IoT/Machine

Data

100s of other systems

#### Confluent Cloud's DSP

#### **Interfaces** \*Agent \*Agent **Definition Management UI Streaming Agents** on Confluent Cloud **Real-Time Context Serving External Tables and** \*Real-Time Context **Embeddings Vector Search** Creation Engine **Protocol Support** Runtime **Model Inference Tool Calling** \*A2A **Connections MCP** (Remote + Native)

Replayability Debugging, testing, evaluating, auditing

**Stream Governance** Schema Registry, Stream Catalog, Stream Lineage

with MCP

**Access Controls** RBAC, IP filtering, access control lists (ACLs)

**Security & Compliance** BYOK, CSFLE, private networking, SOC-2, PCI DSS, ISO, GDPR, etc.

**Orchestrate** 

Build

Deploy



on Confluent Data Streaming Platform

Frameworks

LangChain, CrewAl, AutoGen, Mosaic Al, ...

**Agentic SaaS** Agentforce, UiPath, ...





# What does the Future of Integration mean for Confluent?