

EVOLVE 23

presented by **CLOUDERA** **aws** **IBM** **intel**

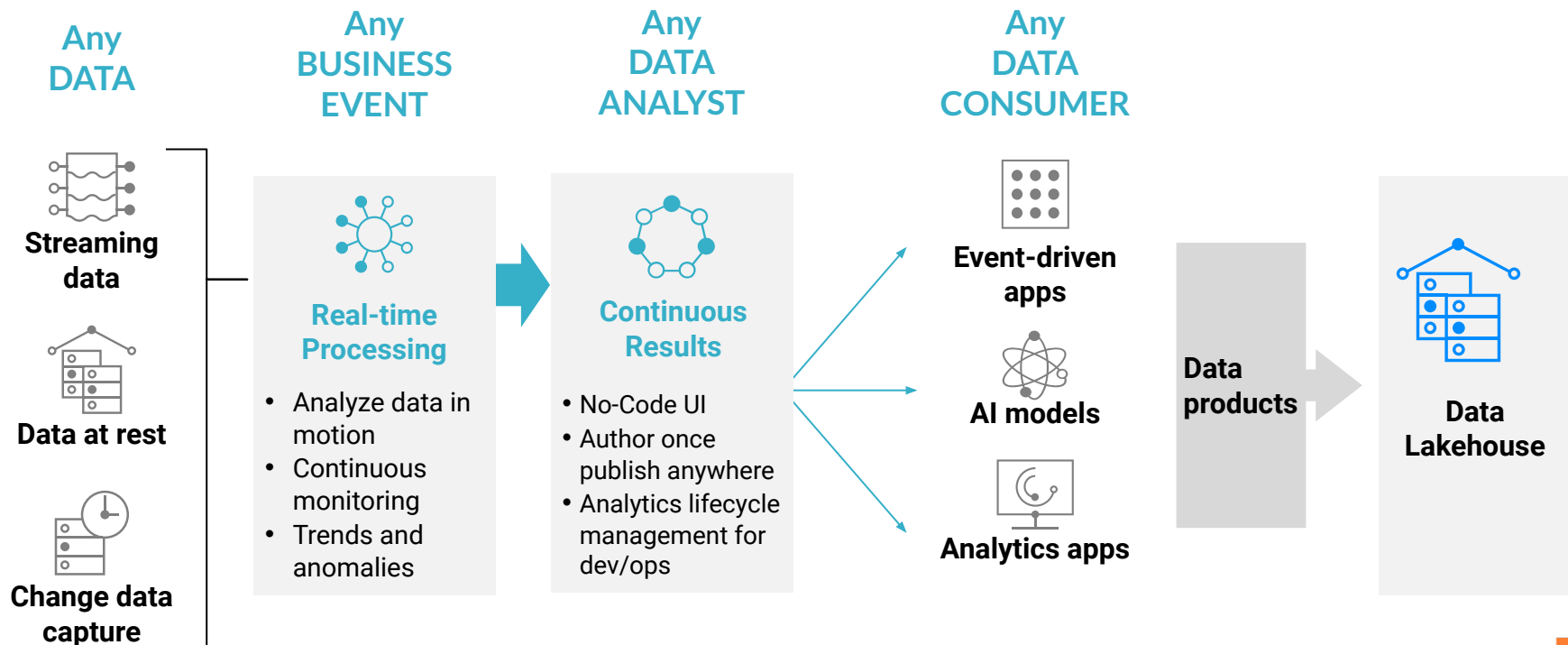
INTEGRATING AI INTO REAL-TIME DATA PIPELINES

November 2, 2023 | 9:00 AM – 6:00 PM

20
23

Integrating AI Into Real-Time Data Pipelines

Data Relevance for Real-Time Applications



DATA SOURCES



ORACLE®



INGESTION



STREAM



SQL Stream Builder



MESSAGE HUB



kafka

STORAGE



BATCH

CLUSTER Machine Learning



CONSUMPTION

CLUSTER Data Visualization



ENTERPRISE LAKEHOUSE CAPABILITY VIEW

MANAGEMENT



Apache Airflow

CLUSTER Workload Manager



CLUSTER SDX



Apache Ranger



Apache Atlas

Internal Users
(After Sales)External
Systems

watsonx.data



presto

Closed Loop
Systems

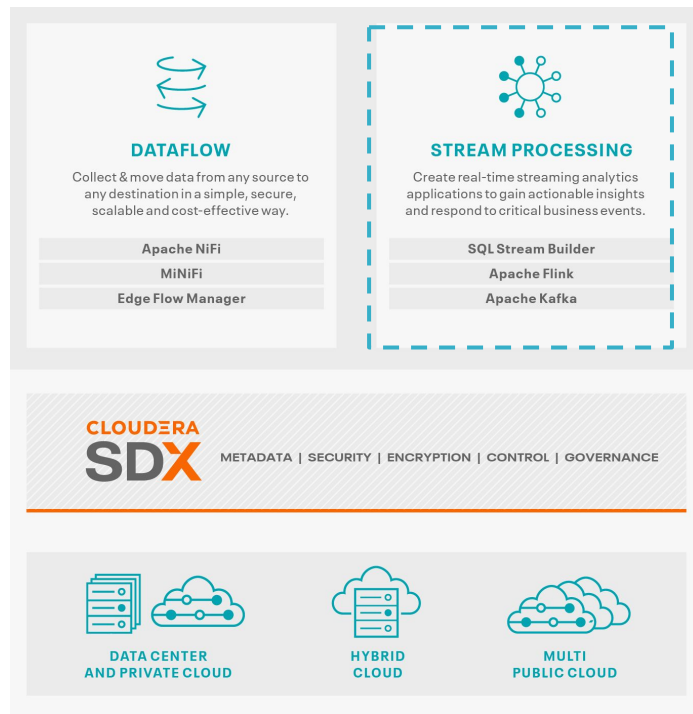
Cloudera's Data in Motion Services

Cloudera Offers Two Core Data-In-Motion Services: DataFlow & Stream Processing

DATAFLOW — Powered by Apache NiFi, it enables developers to connect to any data source anywhere with any structure, process it, and deliver to any destination using a low-code authoring experience.

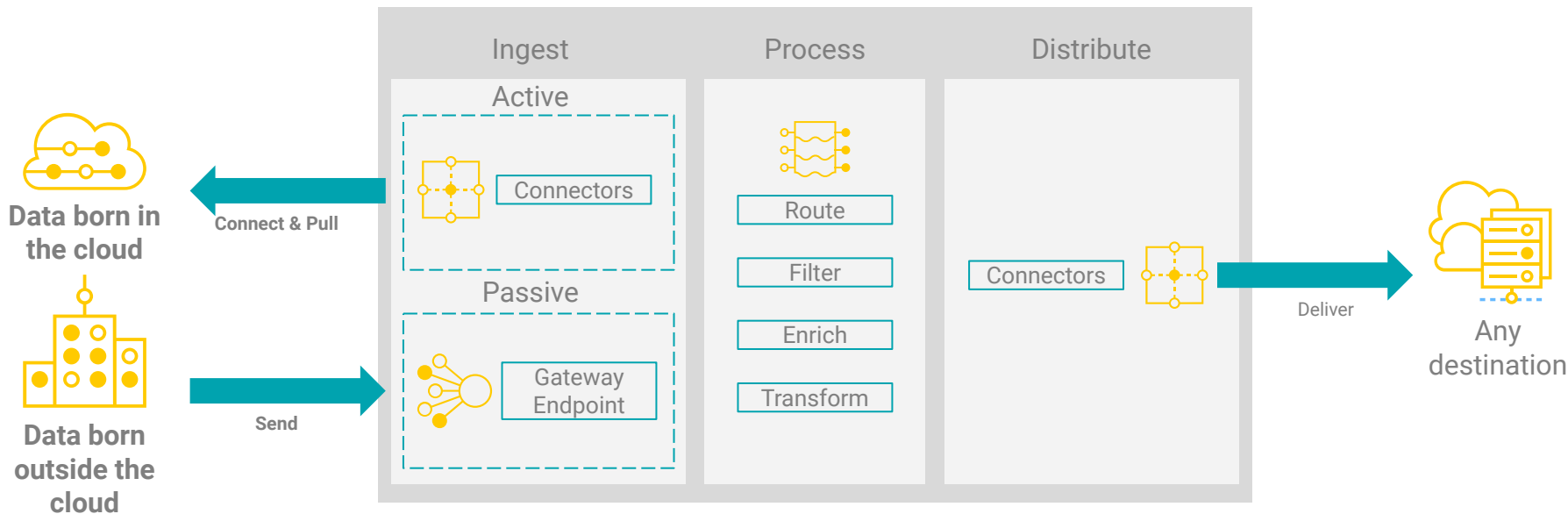
STREAM PROCESSING — Powered by Apache Flink and Kafka, it provides a complete, enterprise-grade stream management and stateful processing solution. With support for industry standard interfaces like SQL, developers, data analysts, and data scientist can easily build a wide variety of hybrid real-time applications.

CLOUDERA SDX — Secure, Monitor and Govern your Streaming workloads with the same tooling using *Apache Ranger* & *Apache Atlas*.



Simplified Streaming Pipelines

Connect to any **data source** anywhere, process and **deliver** to **any destination**



LLM USE CASE



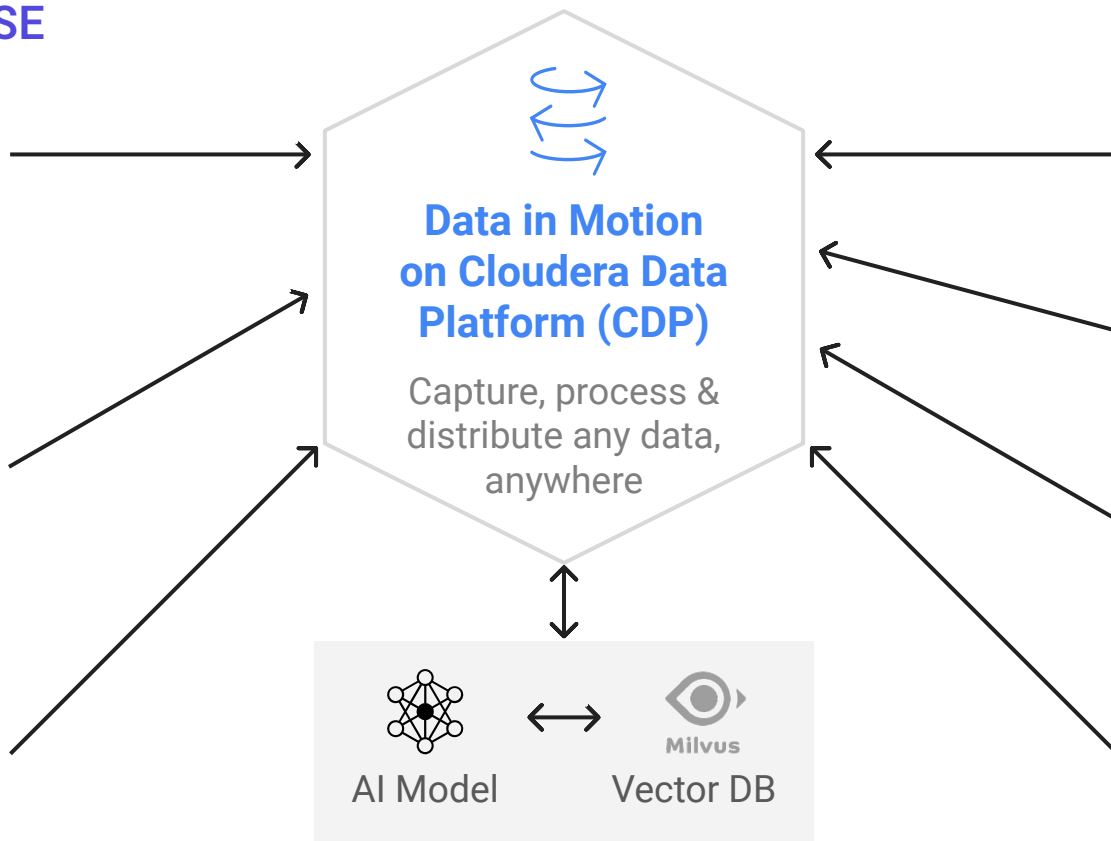
Unstructured file types



Structured Sources



Other enterprise data



Applications/API's



Streams



Materialized Views



Open Data Lakehouse

Apache NiFi in a few numbers

A very active project with a dynamic community & comparison with ACEU 2019

2800+ members on the Slack channel (535+ - 4 years ago)

475+ contributors on Github across the repositories (260+ - 4 years ago)

65 committers in the Apache NiFi community (45 - 4 years ago)

Apache NiFi 1.23.2 is the latest release, NiFi 2.0 coming soon (NiFi 1.10 - 4 years ago)

14M+ docker pulls of the Apache NiFi image (1M+ - 4 years ago)