



Get a Farm-to-Table View of Your Data

*Tracking data quality and lineage on-premises
and in the cloud, on and off the cluster*

Dr. Tendü Yoğurtçu, Chief Technology Officer

syncsort

Who is Syncsort?

>7,000

Customers

syncsort

84

of Fortune 100 are Customers

The global leader in Big Iron to Big Data

500+

Experienced & Talented
Data Professionals

100+

Countries We Do Business In

3x

Revenue Growth
In Last 12 Months

Customer Use Cases & Strategic Partnerships

Data Infrastructure Optimization

- Mainframe Optimization
- Cross-Platform Capacity Management
- EDW Optimization
- Application Modernization



Data Availability

- High Availability & Disaster Recovery
- Mission-Critical Migration
- Cross-Platform Data Sharing
- IBM i Data Security & Audit



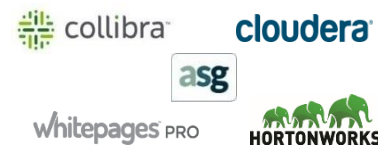
Data Integration

- Mainframe Access & Integration for Machine Data
- Mainframe Access & Integration for App Data
- High-performance ETL



Data Quality

- Data Governance
- Customer 360
- Big Data Quality & Integration
- Data Enrichment & Validation



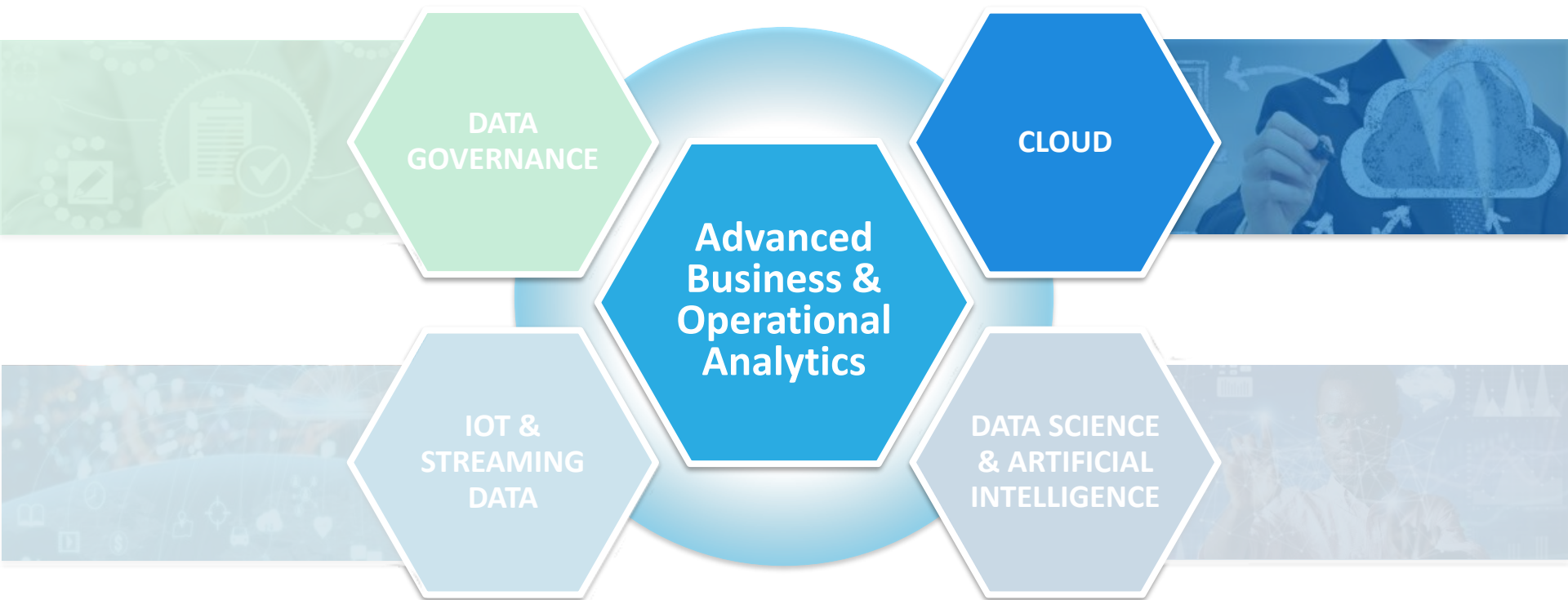
Big Iron to Big Data

A fast-growing market segment composed of solutions that **optimize** traditional data systems and **deliver** mission-critical data from these systems to **next-generation analytic environments**.

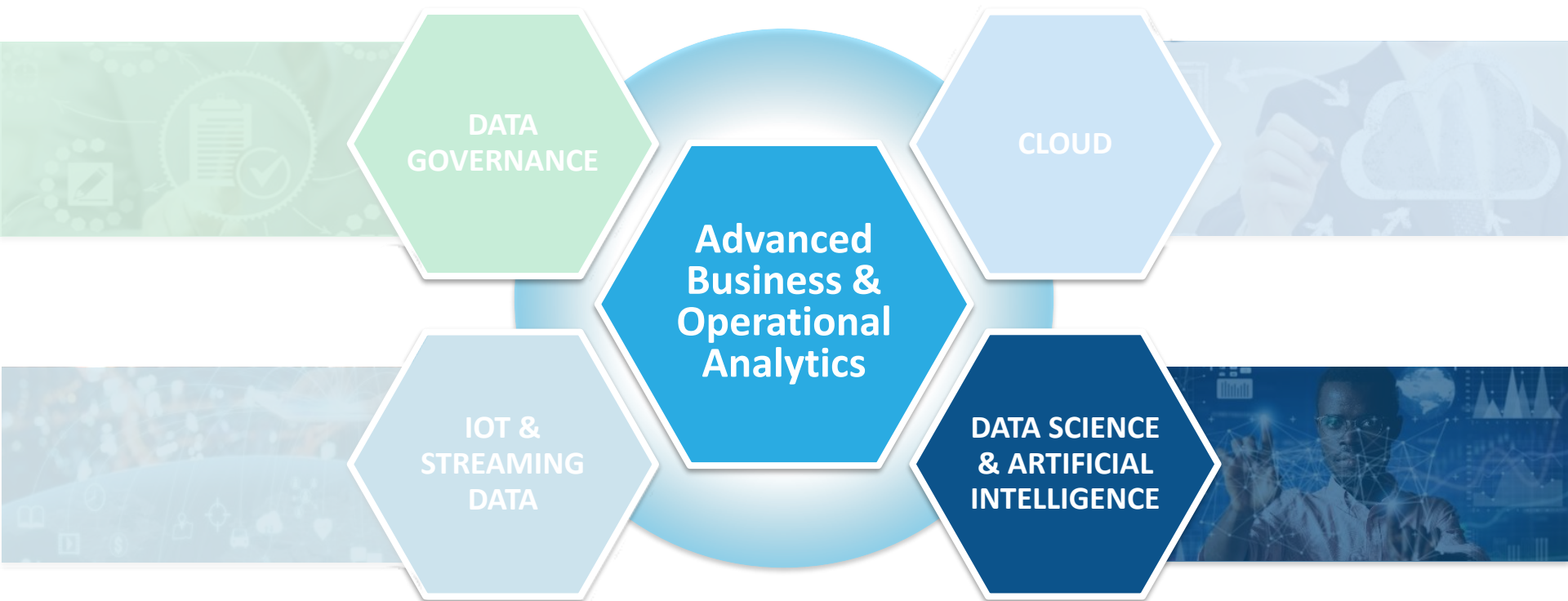
Farm to Table



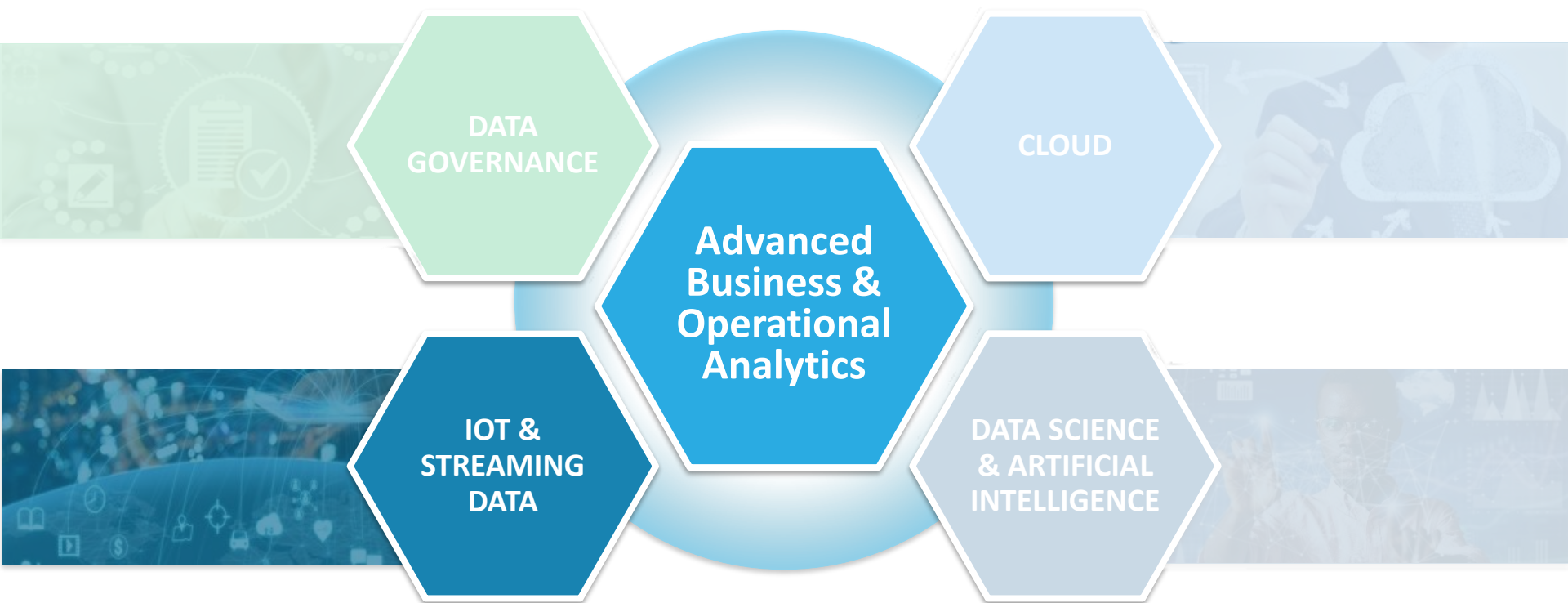
Technology Trends Advancing Data



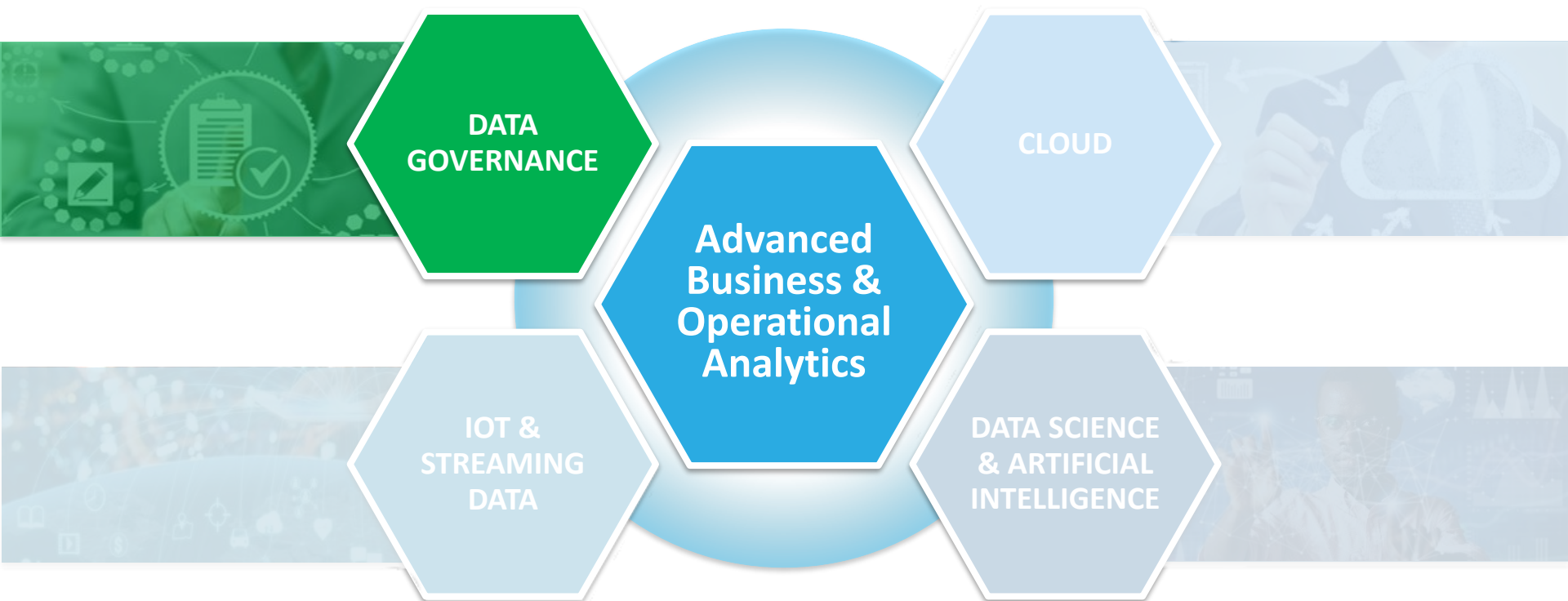
Technology Trends Advancing Data



Technology Trends Advancing Data



Technology Trends Advancing Data



Data Governance

- **Business imperative across platforms and deployment models, on-premise and in the cloud**

GOALS

- Regulatory compliance
- Understand data context, meaning
- Accuracy, completeness, consistency, relevancy, timeliness, validity of data

CHALLENGES

- Multi-platform, data volume and complexity
- Diversity and consistency of sources
- Compliance demands: broader & deeper



Data Governance

- Requires a multi-faceted approach

QUALITY

- Discover sources of, relationships between, data
- Apply business rules to measure data quality continuously

SECURITY

- Protect the confidentiality, integrity and availability of data

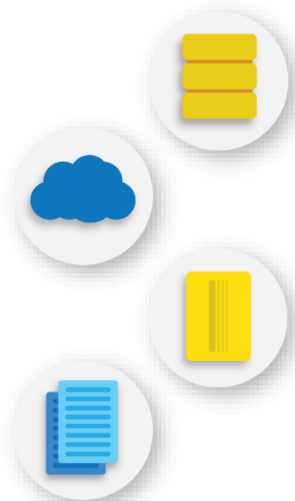
LINEAGE

- Get insights into where data came from, what changes were made and where it lands



End to End Data Lineage in Cloudera Navigator

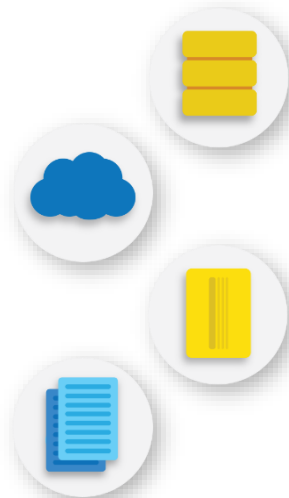
Data Sources



End to End Data Lineage in Cloudera Navigator

Data Sources

syncsort

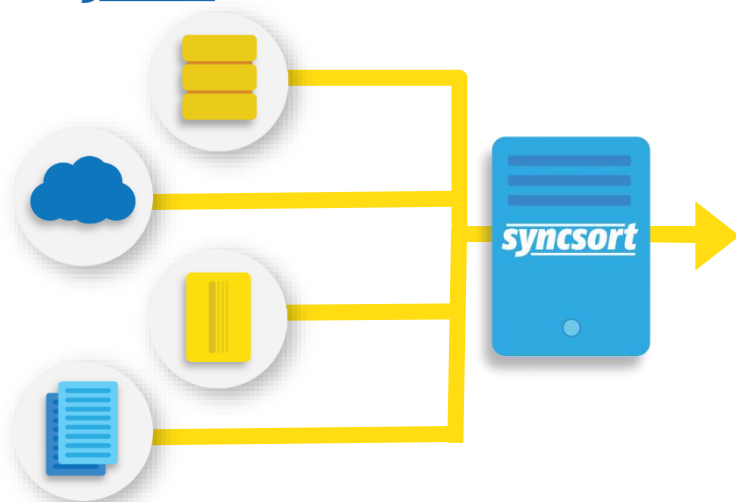


Syncsort accesses data from sources outside cluster.

End to End Data Lineage in Cloudera Navigator

Data Sources

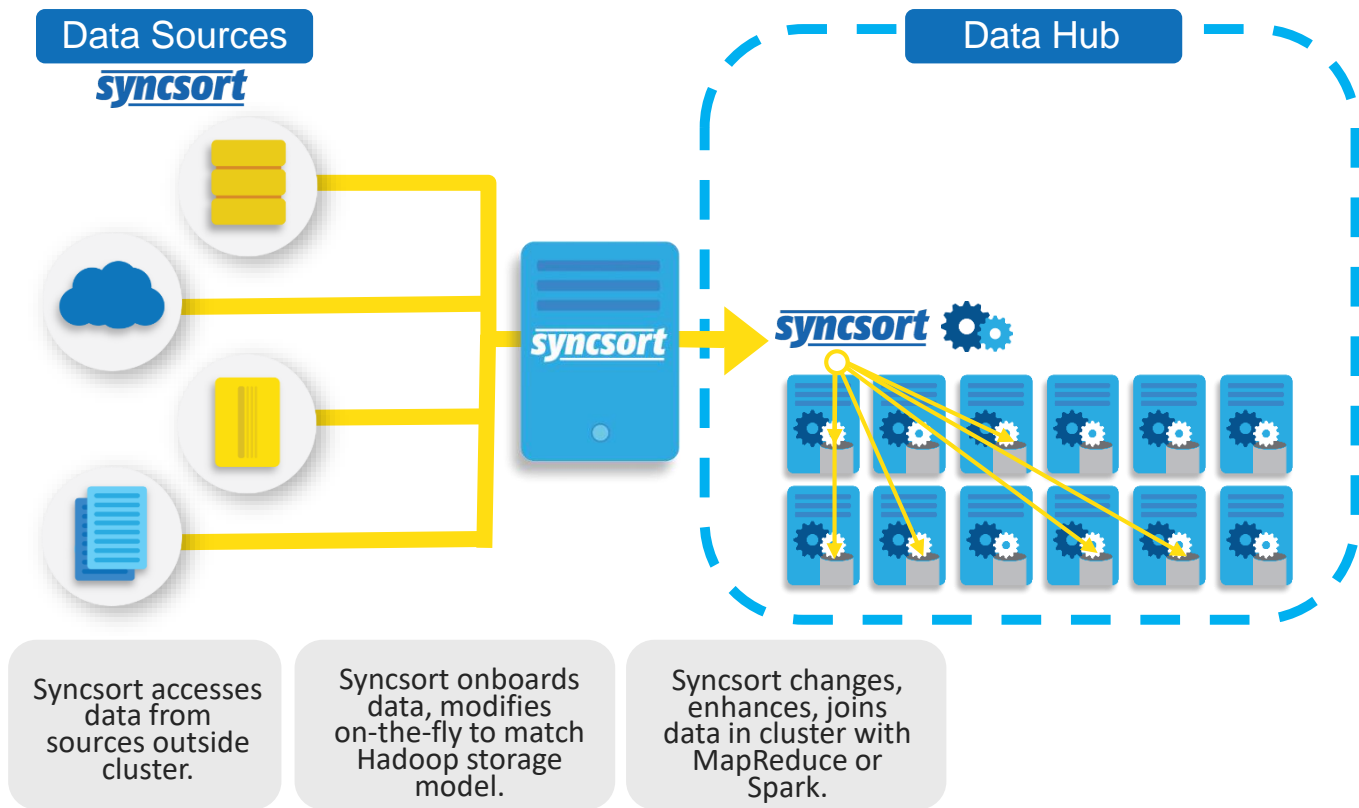
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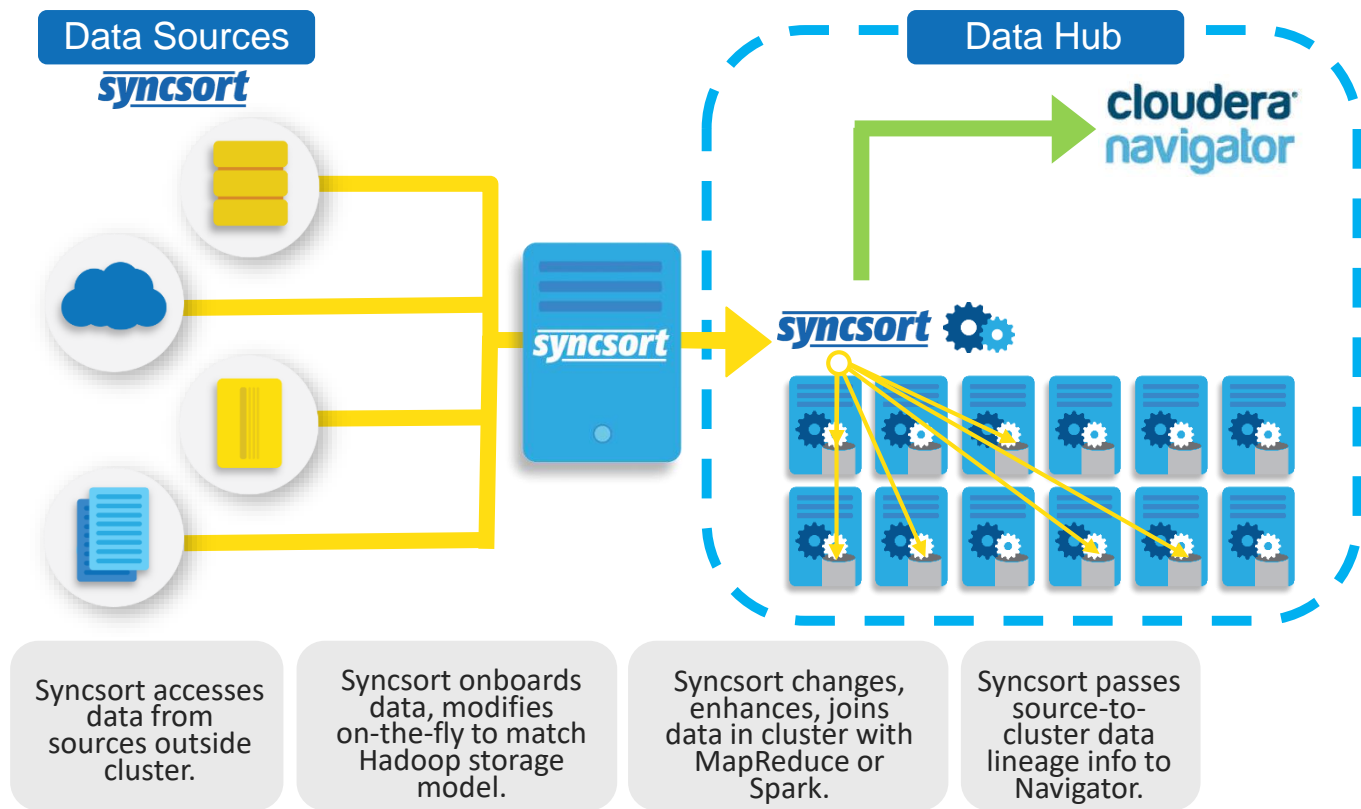
Syncsort accesses data from sources outside cluster.

Syncsort onboards data, modifies on-the-fly to match Hadoop storage model.

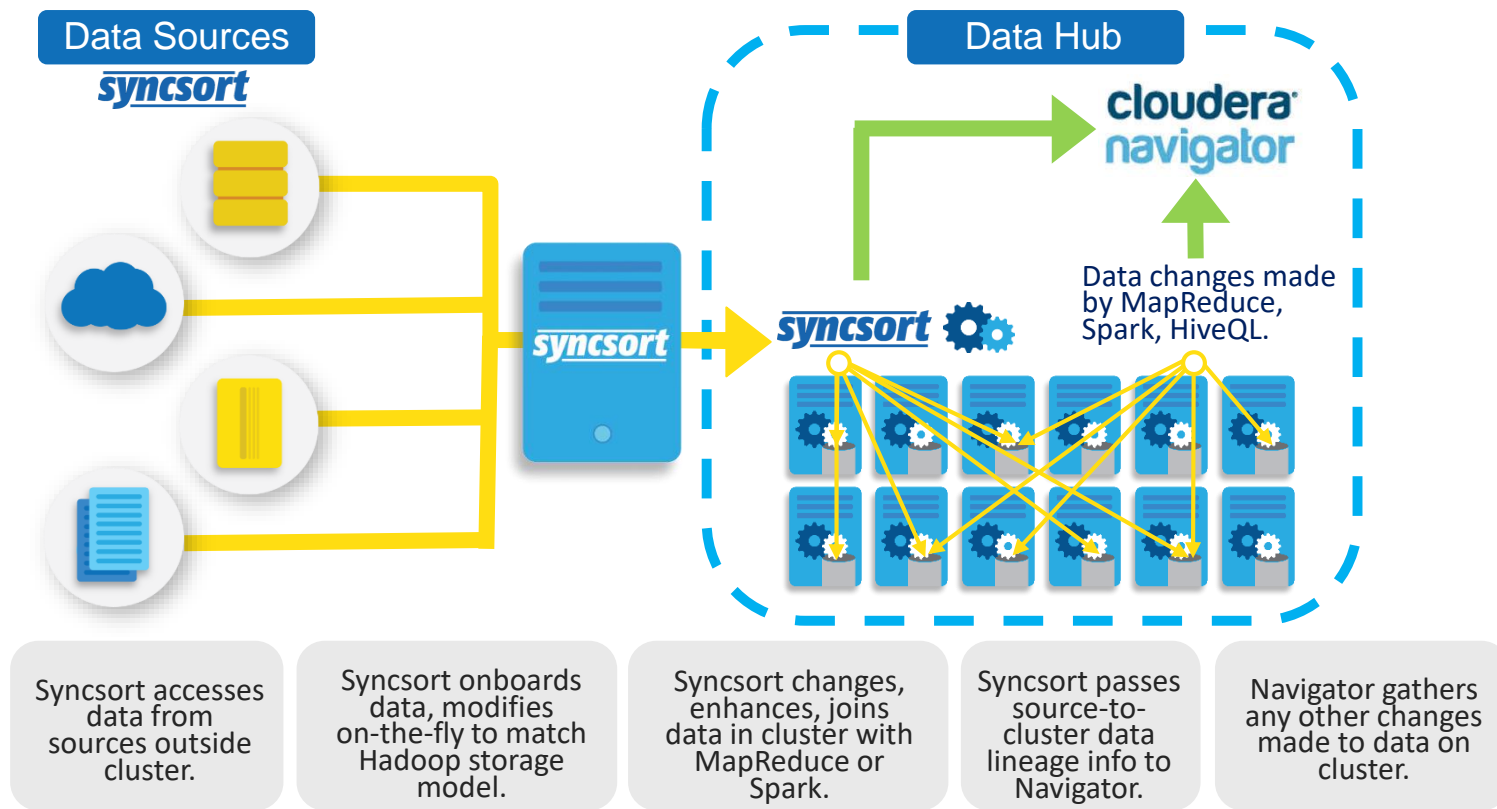
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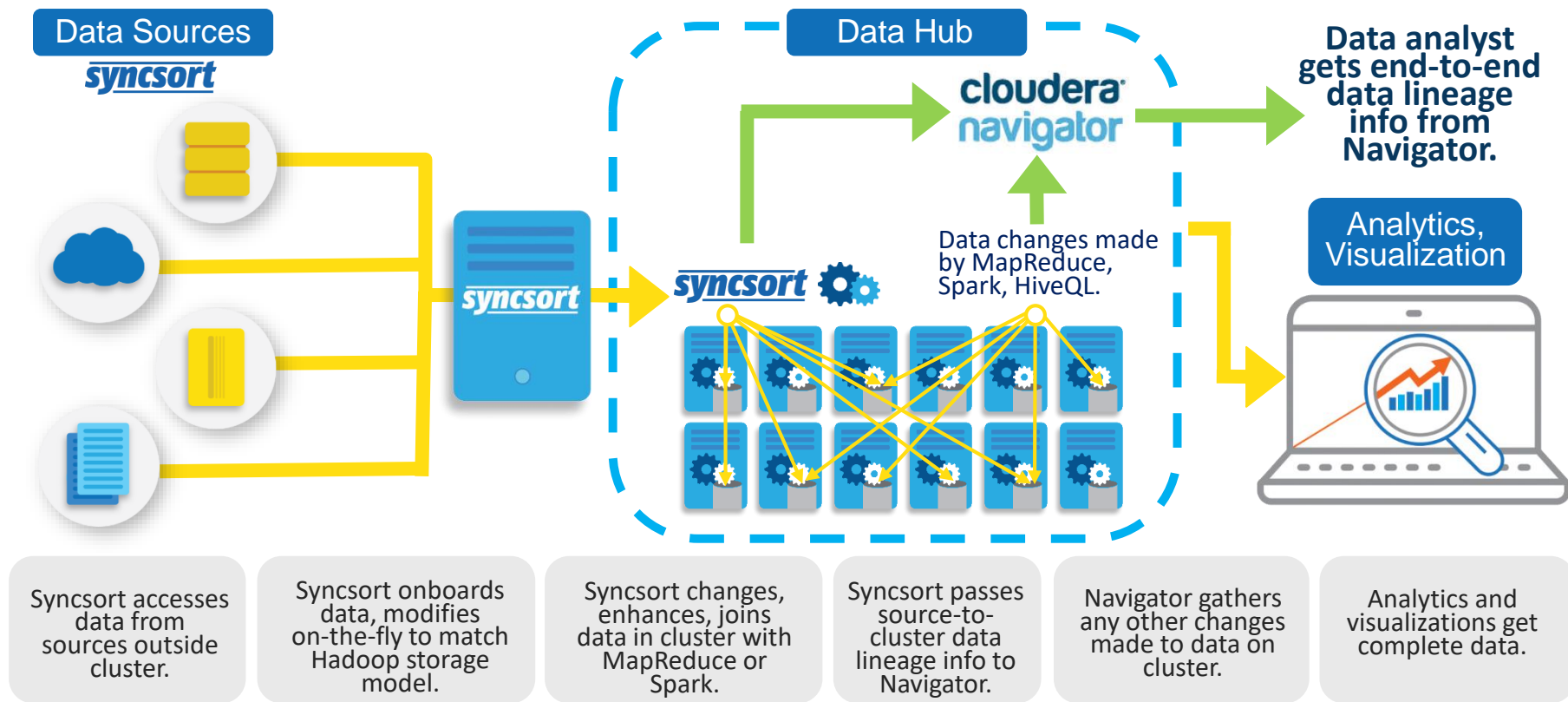
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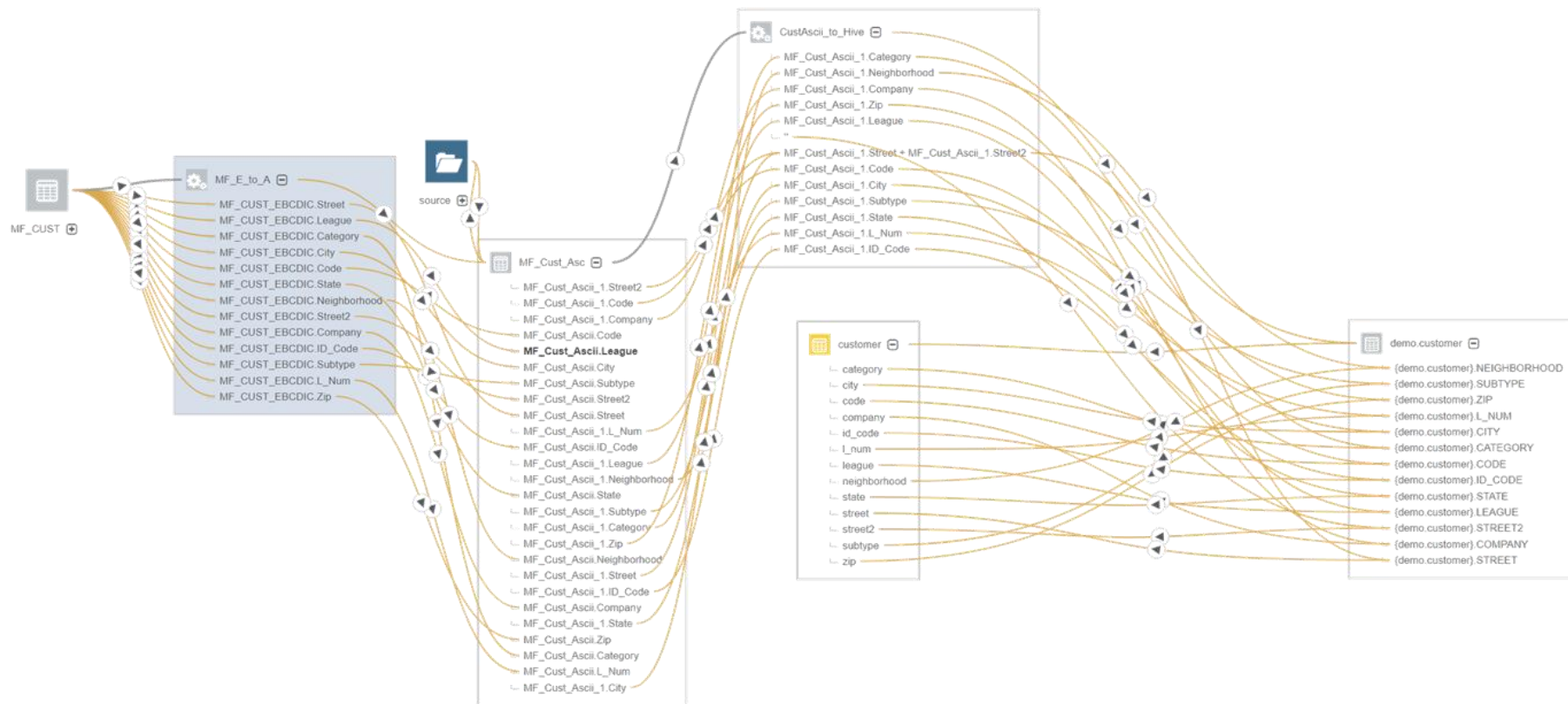
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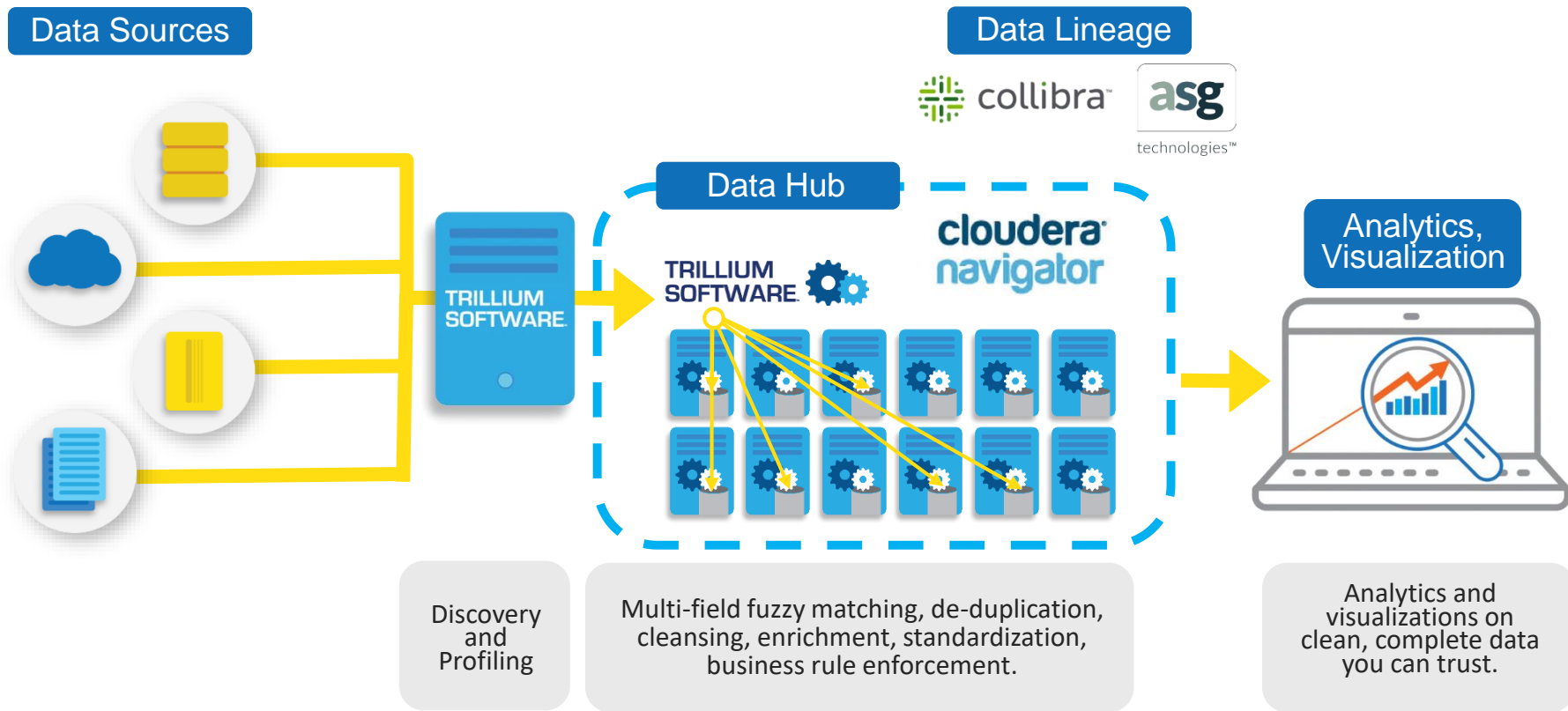
End to End Data Lineage in Cloudera Navigator



Syncsort DMX-h + Cloudera Navigator for End-to-End Lineage



Data Lineage + Data Quality = Foundations of Data Governance



Anti-Money Laundering Solution on CDH at Large Global Bank

- ▶ **Challenge:** Meet AML transaction monitoring and FCA compliance demands
 - Data too large, diversely scattered to analyze
 - Disparate data sources -- Mainframe, RDBMS, Cloud, etc
- ▶ **Requirements:**
 - Consolidated, clean, verified data for all analytics and reporting.
 - MUST have complete, detailed data lineage from origin to end point
 - MUST be secure: Kerberos and LDAP integration required
 - Need unmodified copy of mainframe data stored on Hadoop for backup, archive



Anti-Money Laundering Solution on CDH at Large Global Bank

► Solution:

- Syncsort DMX-h to create “Golden Record” on CDH for compliance archiving
- Trillium Quality for Big Data for cluster-native data verification, enrichment, and demanding multi-field entity resolution on Spark framework
- Full end-to-end lineage to Cloudera Navigator, from all sources, through transformations, to data landing, including HiveQL changes

► Benefits:

- New financial crimes data hub produces high performance results at massive scale
- Bank meets stringent Anti-Money Laundering compliance requirements





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THANK YOU



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