



Data Democratization

Training Material

AGENDA

- Introduction to Data Democratization
- Why is Data Democratization crucial to an organization?
- How is Data Democratization leading enterprises towards data literacy?
- Enablers of Data Democratization
- Tech Innovation that propels Data Democratization
- Best Practices of Data Democratization
- Brillio's approach towards Data Democratization

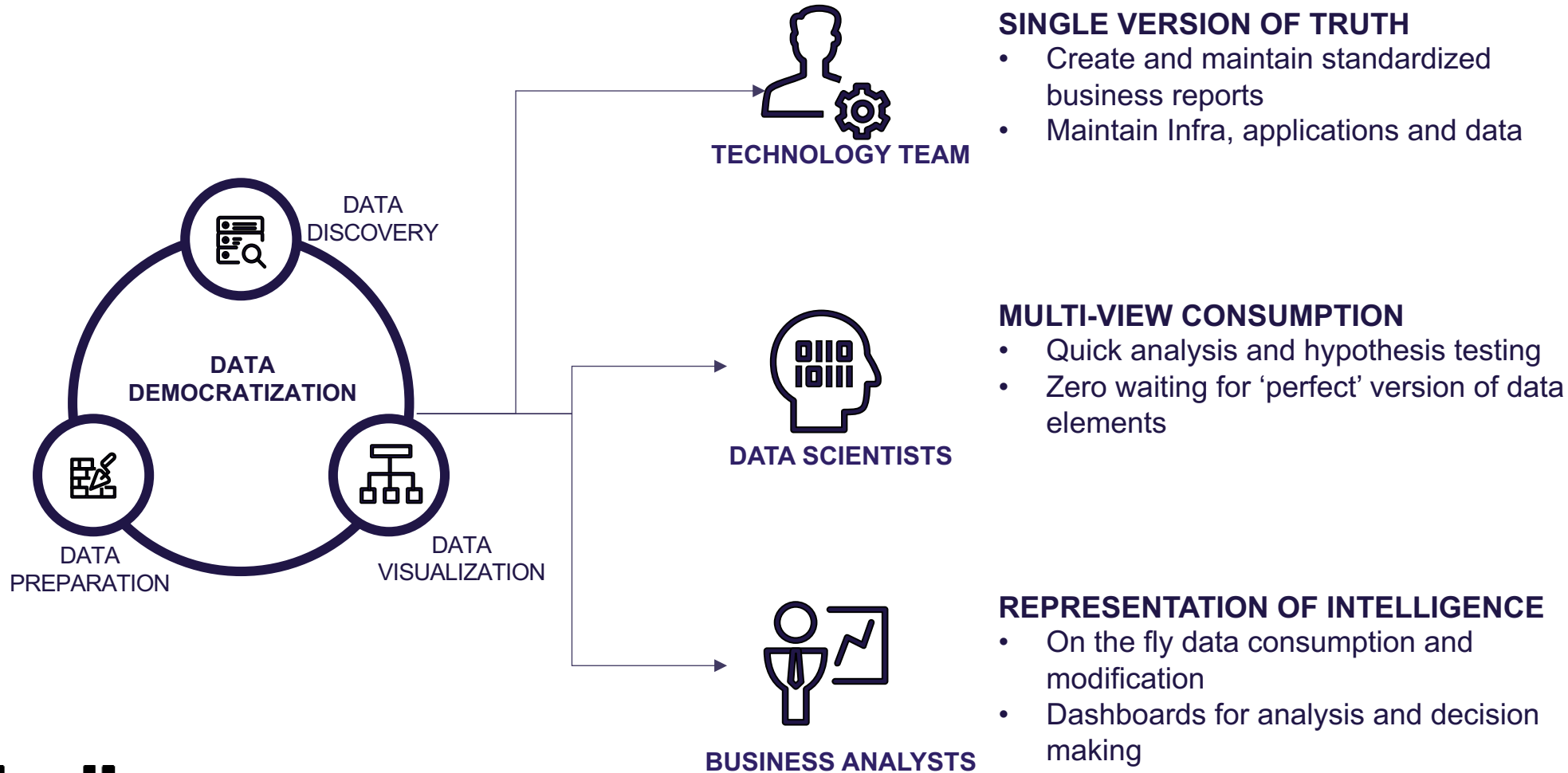
Introduction to Data Democratization

- Data Democratization in an organization makes data available to all stakeholders and provides easy to use tools to access data
- Data is now everyone's business and everyone in organization should have access to data to generate meaningful content, insights, etc.
- How do we empower users with equal access to data:
 - Data Discovery
 - Data exploration
 - Data Visualization
 - Data Experimentation

Why is Data Democratization important for an Organization?

- Ability to Harness actionable insights
- Foster the culture of informed decision making
- Move faster on initiatives within the organization
- Drive data driven innovations
- Reduction of duplicate work from data analyst
-

How is Data Democratization leading Organizations towards Data Literacy?



TRUST



SPEED

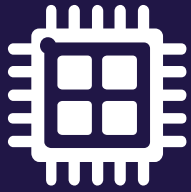


LEAN



Enablers of Data Democratization

CORE CAPABILITIES



**Data
Foundation**

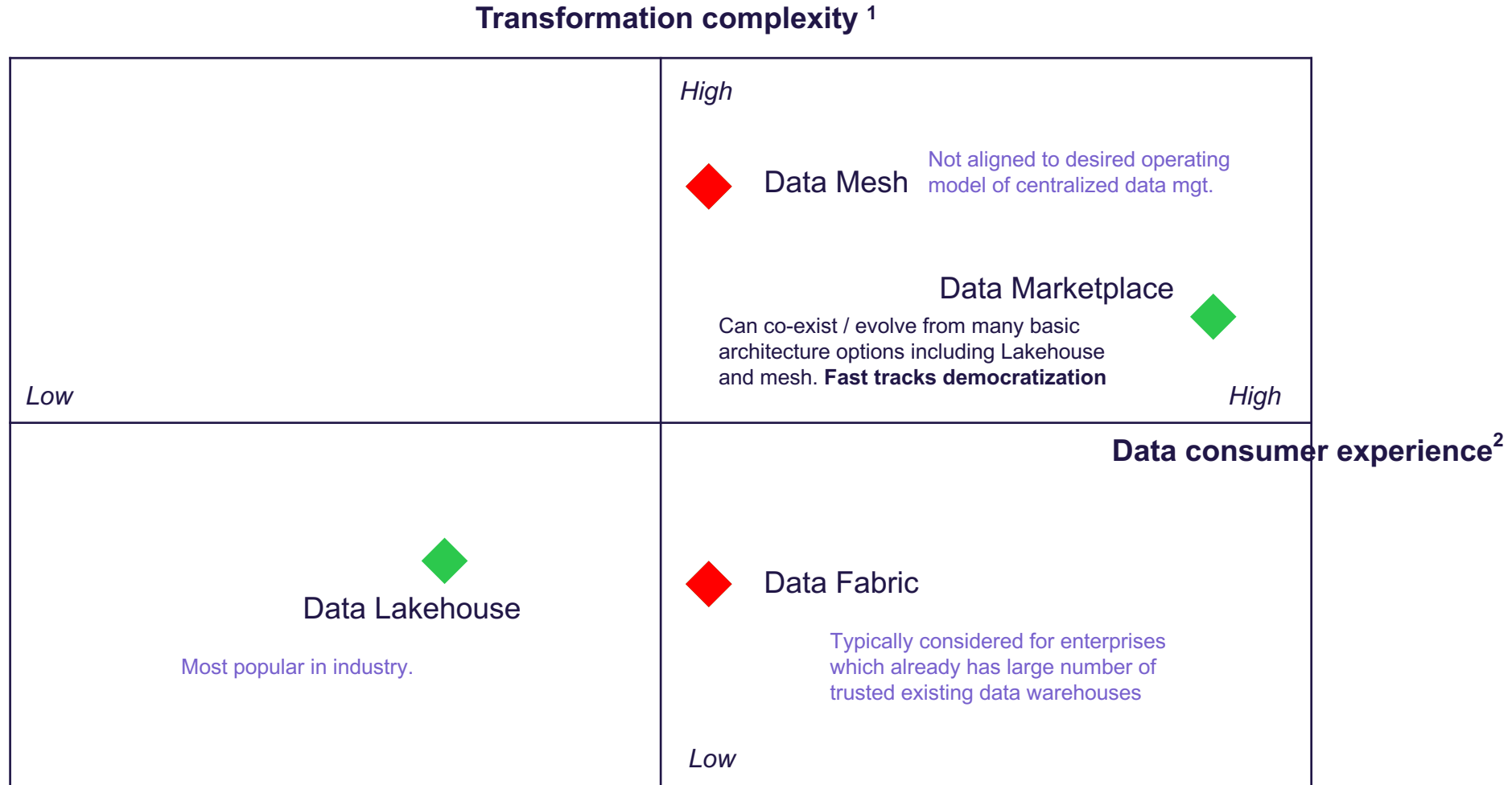


**Human Centric
Design**

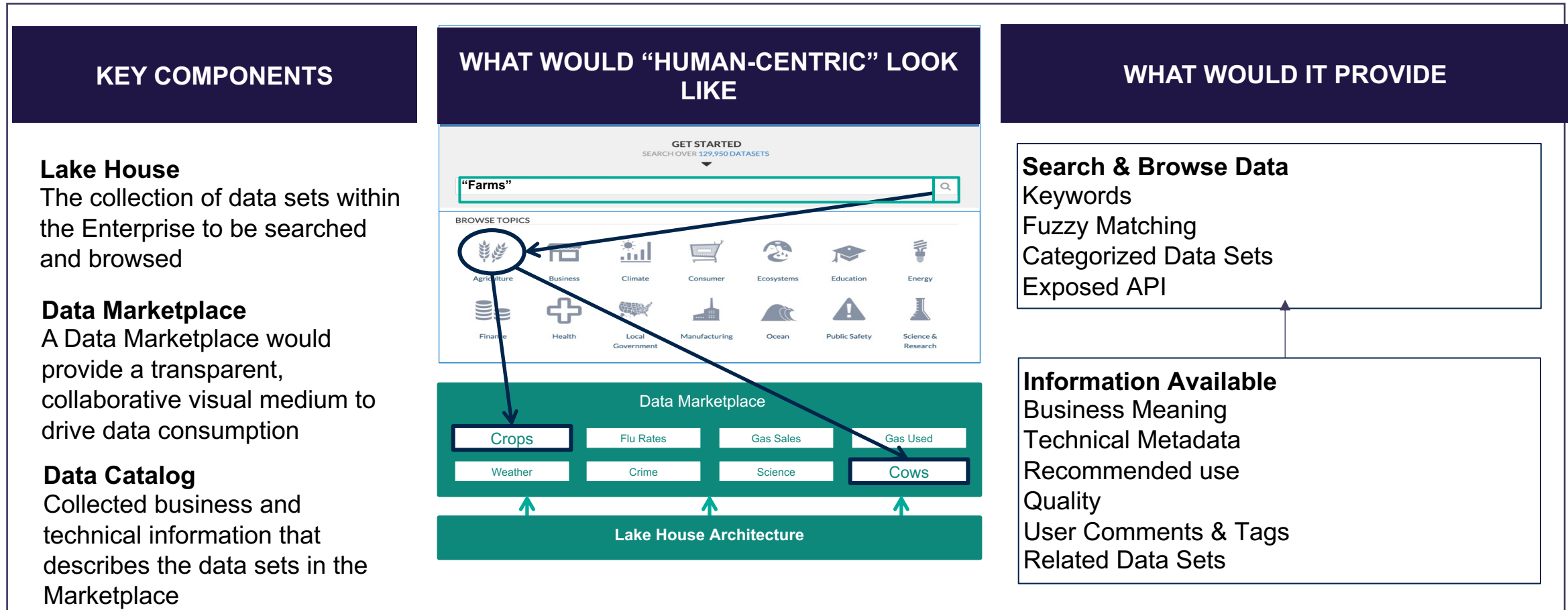


**Right speed
governance**

Defining the Data Foundation is based on transformation complexity and Data consumer experience

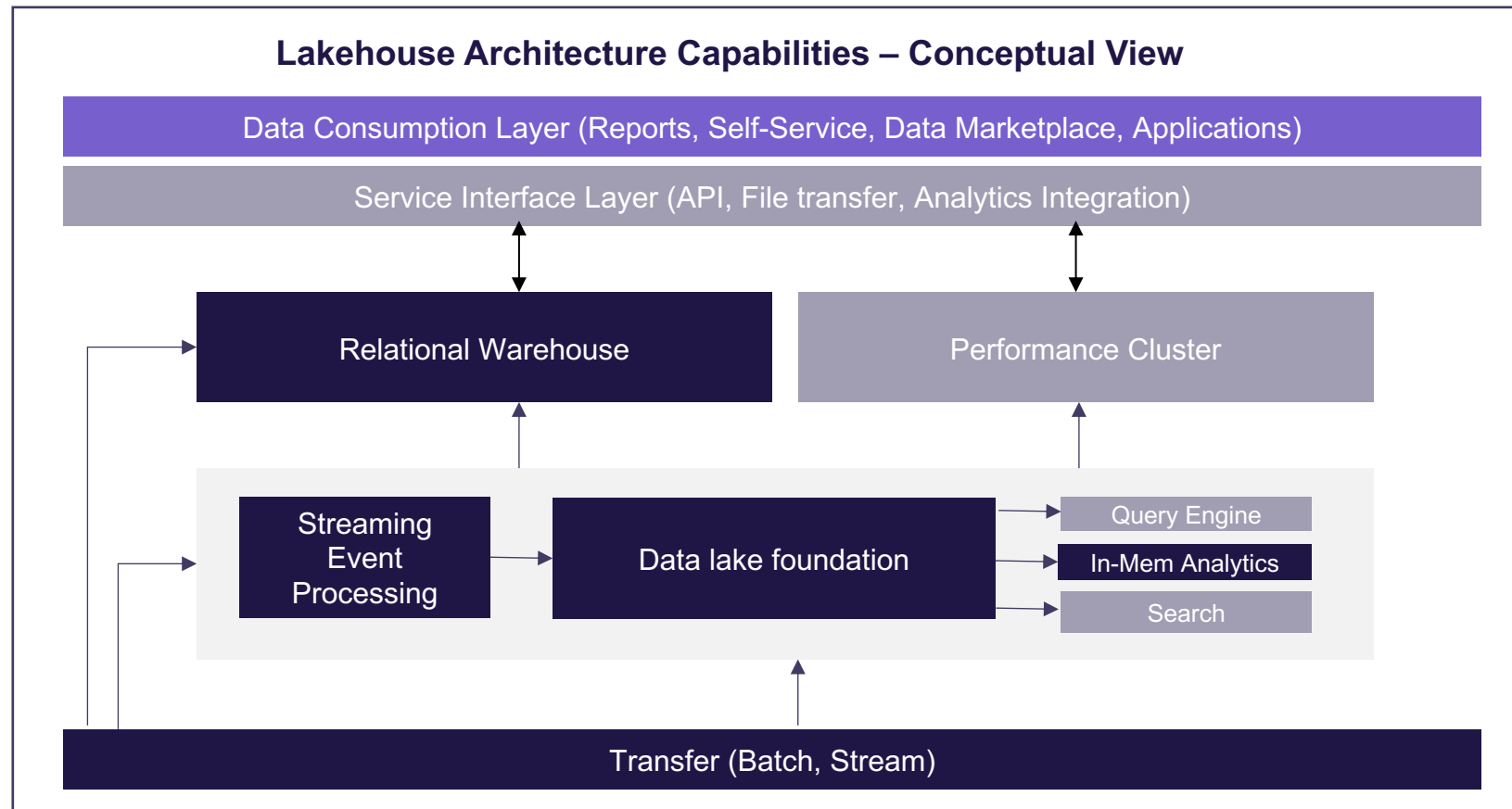


Success and Adoption of Data Democratization is dependent on providing a Human-centric Layer for experience



Data Lakehouse Architecture

Data Lakehouse Architecture provides the right springboard for Data Democratization

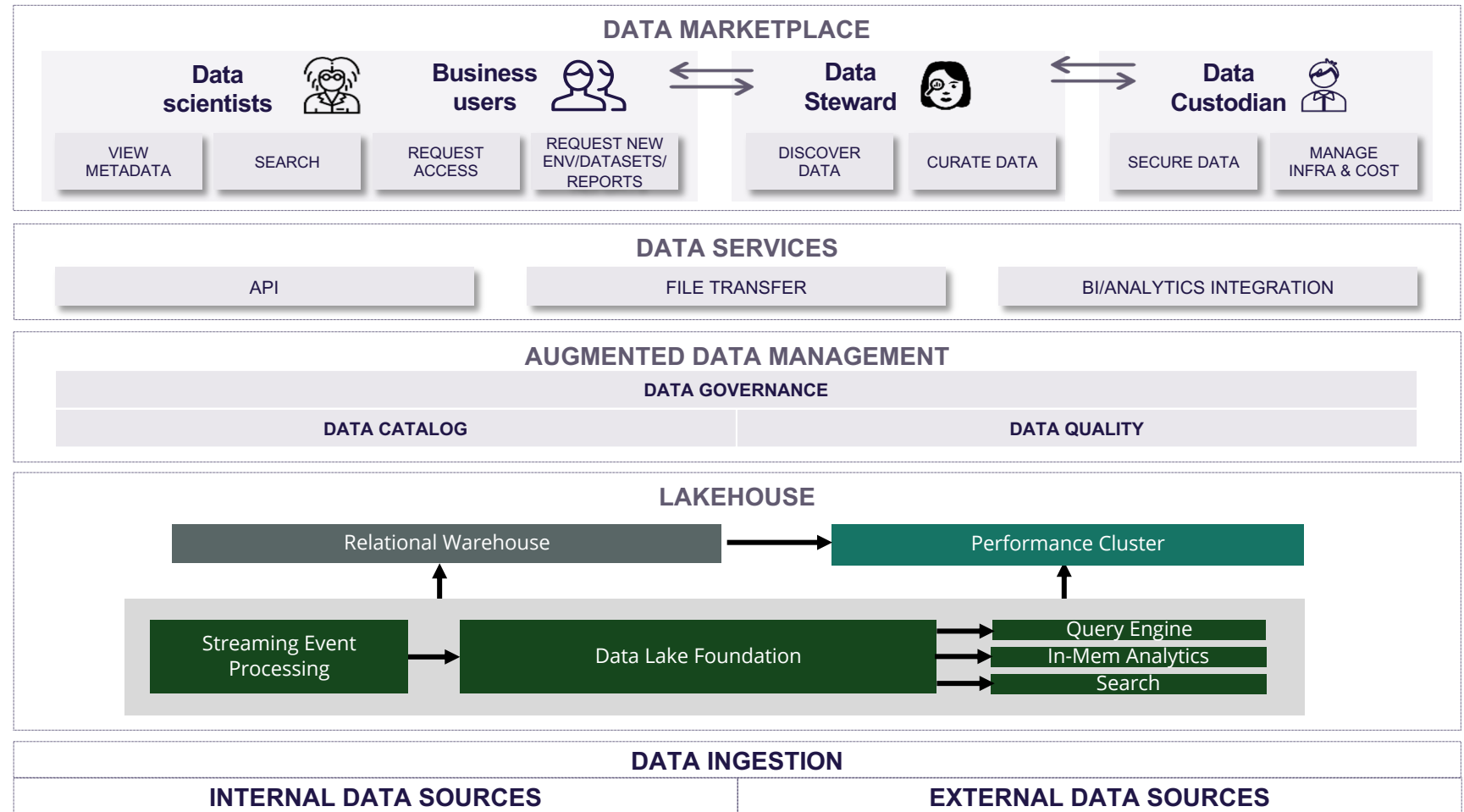


Key outcomes

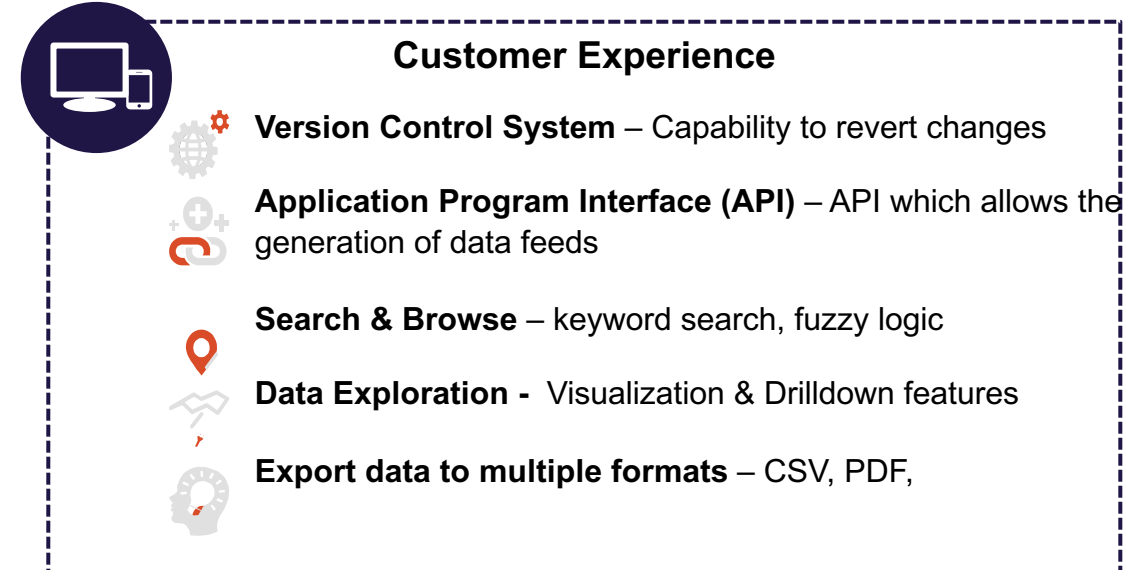
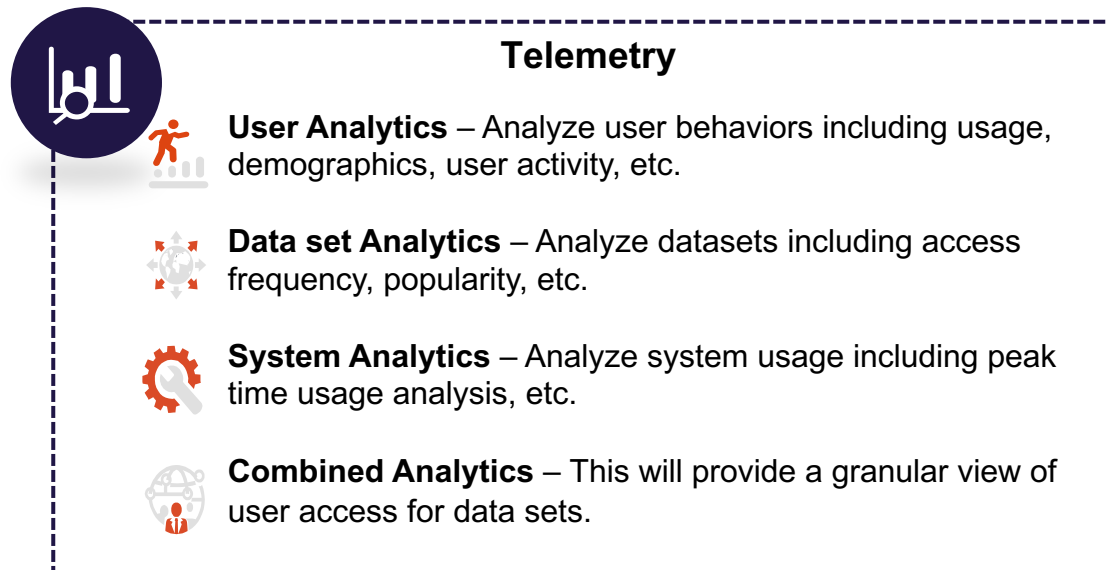
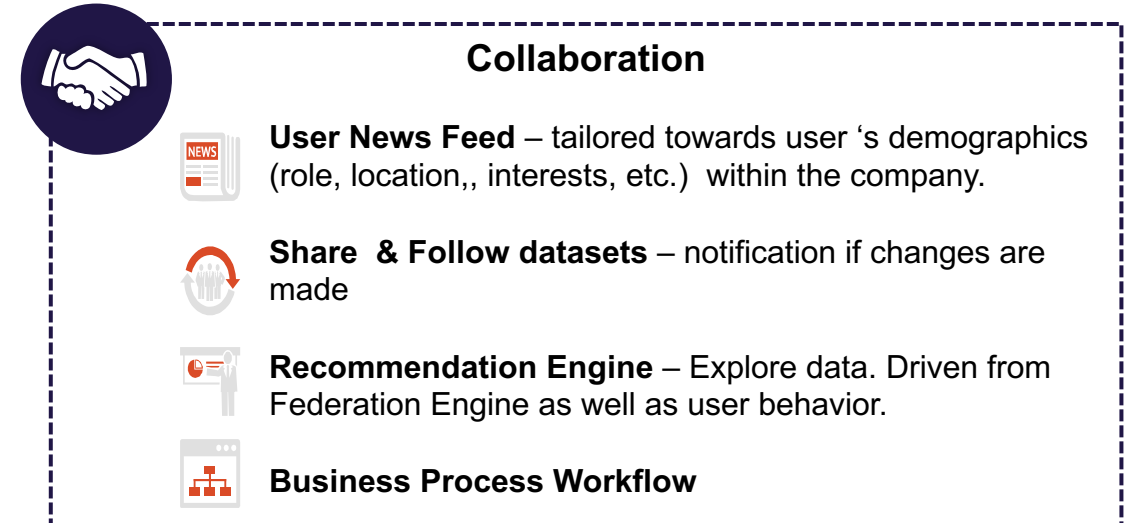
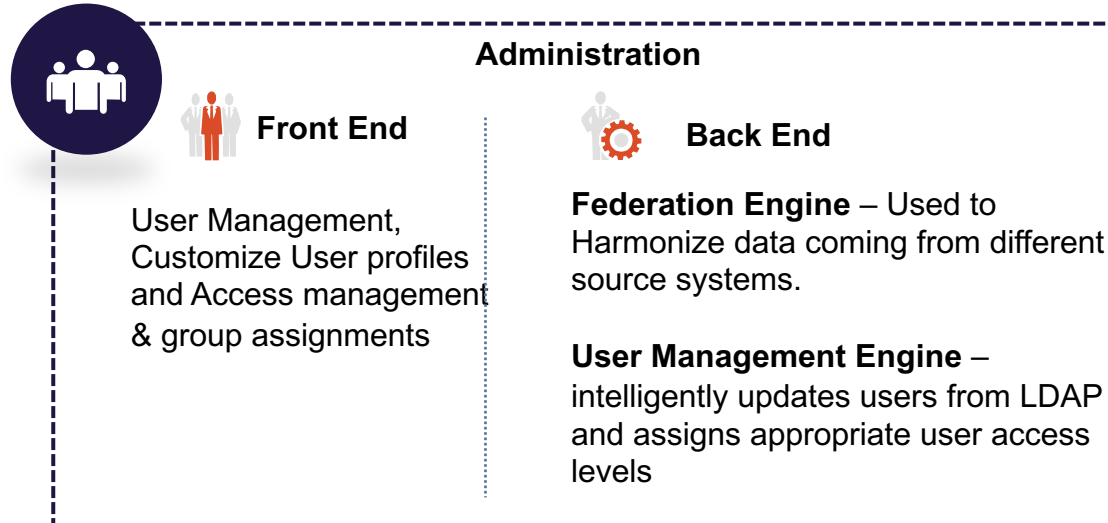
- ◆ Best in class architecture
- ◆ Reduced time to market
- ◆ Least incremental/startup cost

Data Marketplace

Brillio envisions a Data Marketplace on top of the Lakehouse architecture, enabled by an Enterprise Data Catalog to drive Transparent, Collaborative Data Democratization with right-speed Governance



Key features for a Data Marketplace



Right-Speed Governance would drive success and adoption

MODE 1: Reliable & auditable

Schema on write

Data reuse

More governance

Better data

MODE 2: Agile & Responsive

Schema on read

Data discovery

Less governance

More data

Data Governance Board



Lakehouse Data Platform

Controlled Production Space

Individual Discovery Space

Team Discovery Space

User Community



Rapid prototyping

Proven Business Value

Data Steward IT, Steward, Data Operator

Data & IT Organization

Key Roles and Responsibilities

Right-Speed Governance starts with defining the key roles and responsibilities

Data Librarian



Ensures appropriate Metadata information is available for all datasets on the lake.

Data Owner



Create spec and provide necessary information for ingesting.

Creates necessary metadata policies and tagging.

Technical Architect



Reviews use case requests against platform capabilities.

Performs architecture review on building new platform capabilities to accommodate valuable use cases.

Key Data Governance Roles

Data Governance Board



Agrees and monitors process for ingesting and granting access to data.

Used to ensure appropriate security & privacy risk assessment, and can fully approve, approve with restrictions or reject requests.

IT Steward



Performs technical assignment of users to groups.

Supports implementation of data lake tools.

Processes for Data Access



DATA ACCESS REQUEST

Scenario

Prior to this, the Data Consumer has checked the data catalogue and knows the data he/she wants resides on the data lake.



SANDBOX AREA REQUEST

Scenario

The Data Consumer requests data ingestion into his/her individual discovery area.

Arrive at the Data
Catalog Interface
with a business
problem



Search the Right Data
from N no of
instances possible in
the data catalog



Recommendation of
other data sets which
may be needed for
similar business
problem



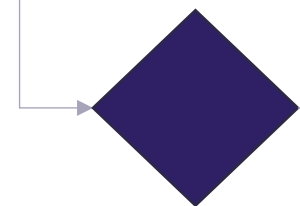
Select "right fit" data
based on quality,
ranking, rules of use



Figure out the
appropriate
polymorphic form of the
dataset and associated
endpoint



Data
provisioning into
personal work
space



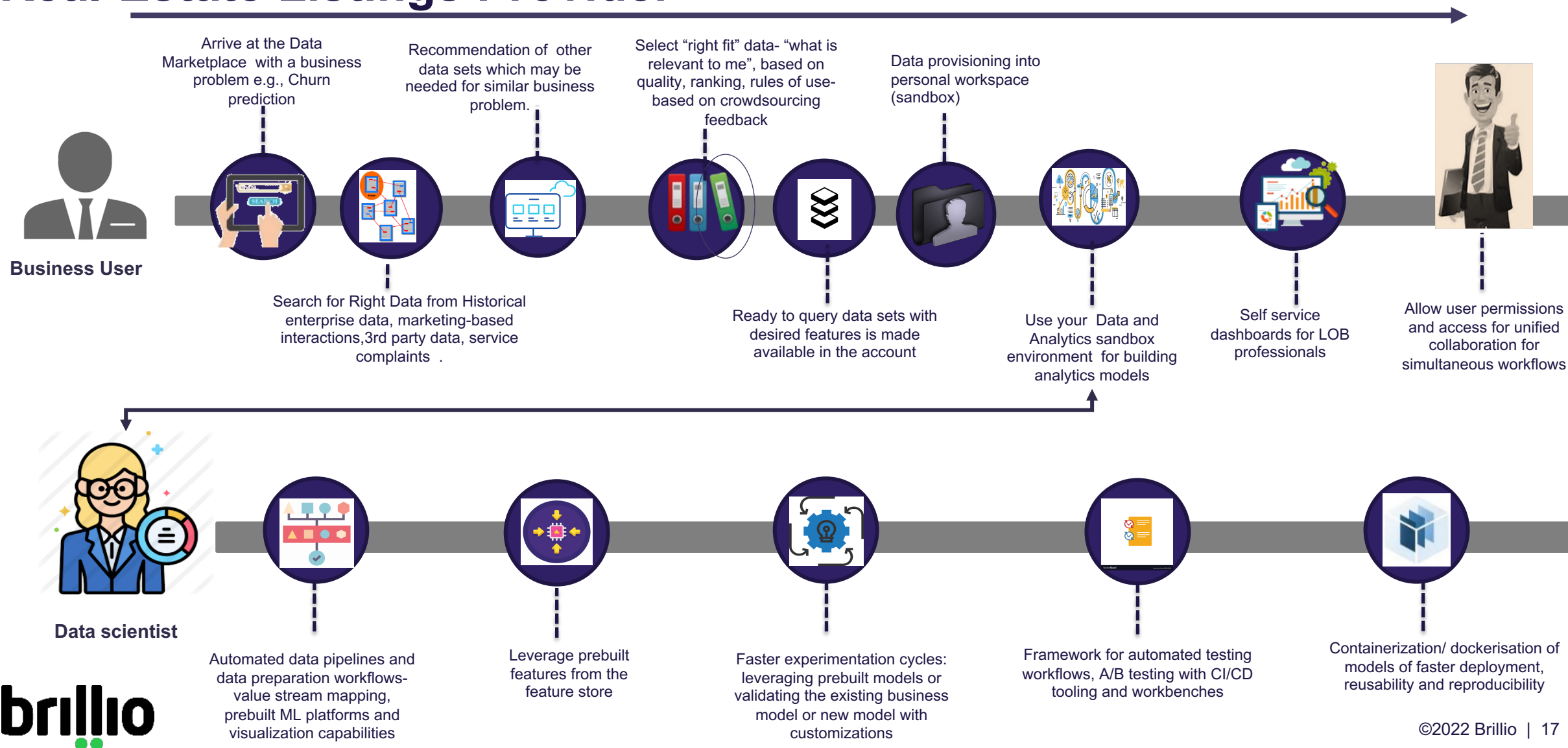
Tech Innovation that propels data democratization

1. Cloud Storage
2. Data Federation Software
3. Data Virtualization Software
4. Self-Service BI Application
5. Cloud-based ETL/ELT SaaS Platforms

Best Practices of Data Democratization

- Start by establishing a culture of data literacy
- Embrace self-service analytics tools
- Implement user permissions and create policies for data accessibility
- Involve your employees
- Manage Data Quality Proactively
- Prioritize Security, Privacy, and Compliance

Case Study – User Journey within a Data Marketplace for Leading Real-Estate Listings Provider



Thank you