plain concepts

webinar

Data-Driven Digital Transformation in the Legal Sector

YOUR HOSTS TODAY:

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Growth Strategy Manager

Pablo Doval

GM & Principal Data Architect

Our Industry does not respect Tradition
It only respects Innovation

Rediscover the meaning of

TECHNOLOGY

YOU CAN FIND US

SPAIN

USA

UK

UAE

GERMANY

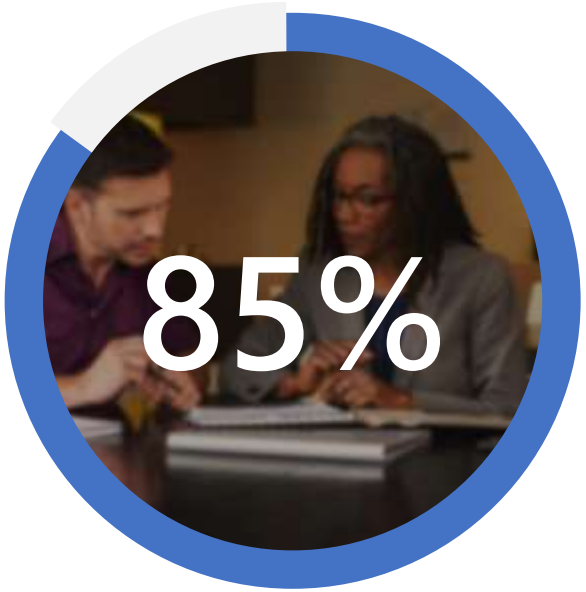
NETHERLANDS

plain concepts

THE AGENDA:

- Trends
- Challenges
- Data Strategy
- Q&A

EMPOWERING ORGANIZATIONS



of enterprises using AI by 2020[1]

have started or are planning to start their AI initiatives in the near term[2]

[1].Source: Gartner, Smarter with Gartner, 2017.
[2]. Source: Gartner, CIO Report, 2017.

EMPOWERING ORGANIZATIONS

Innovation through AI...

- Real Time Churn Analysis
- Knowledge Extraction
- Lead Cases Selection
- Automatic Case Classifier
- Document Classification
- Semantic Search
- Case Outcome Forecasting
- Clause Outlier Detection
- Settlement Forecast

EMPOWERING ORGANIZATIONS

... requires

data first.

EMPOWERING ORGANIZATIONS

Unstructured, chaotic **data estate**

Lack of skills and productivity

Solutions not **Enterprise-ready**

THE AGENDA:

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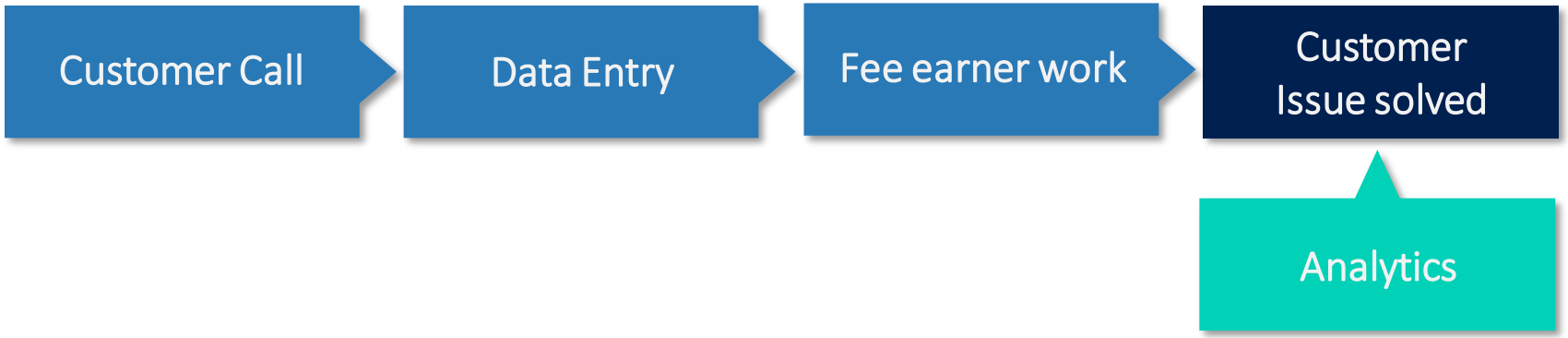
Challenge #1: Data Storage

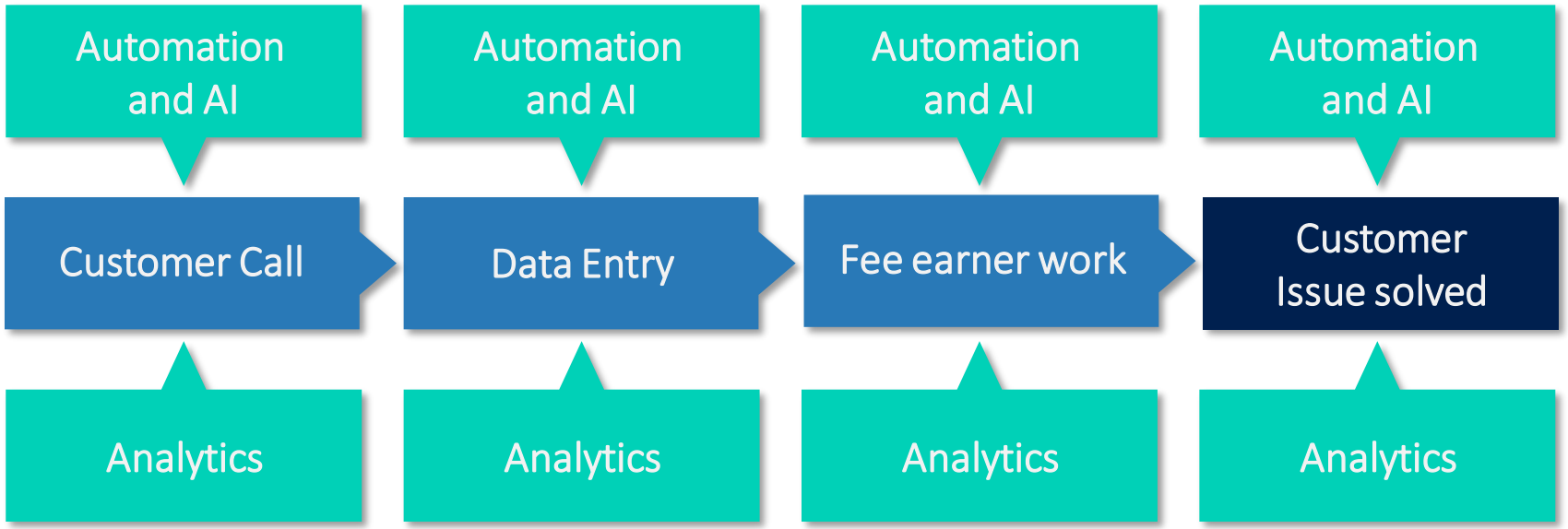
DATA STORAGE
IN LAW FIRMS

Traditional reactive approach

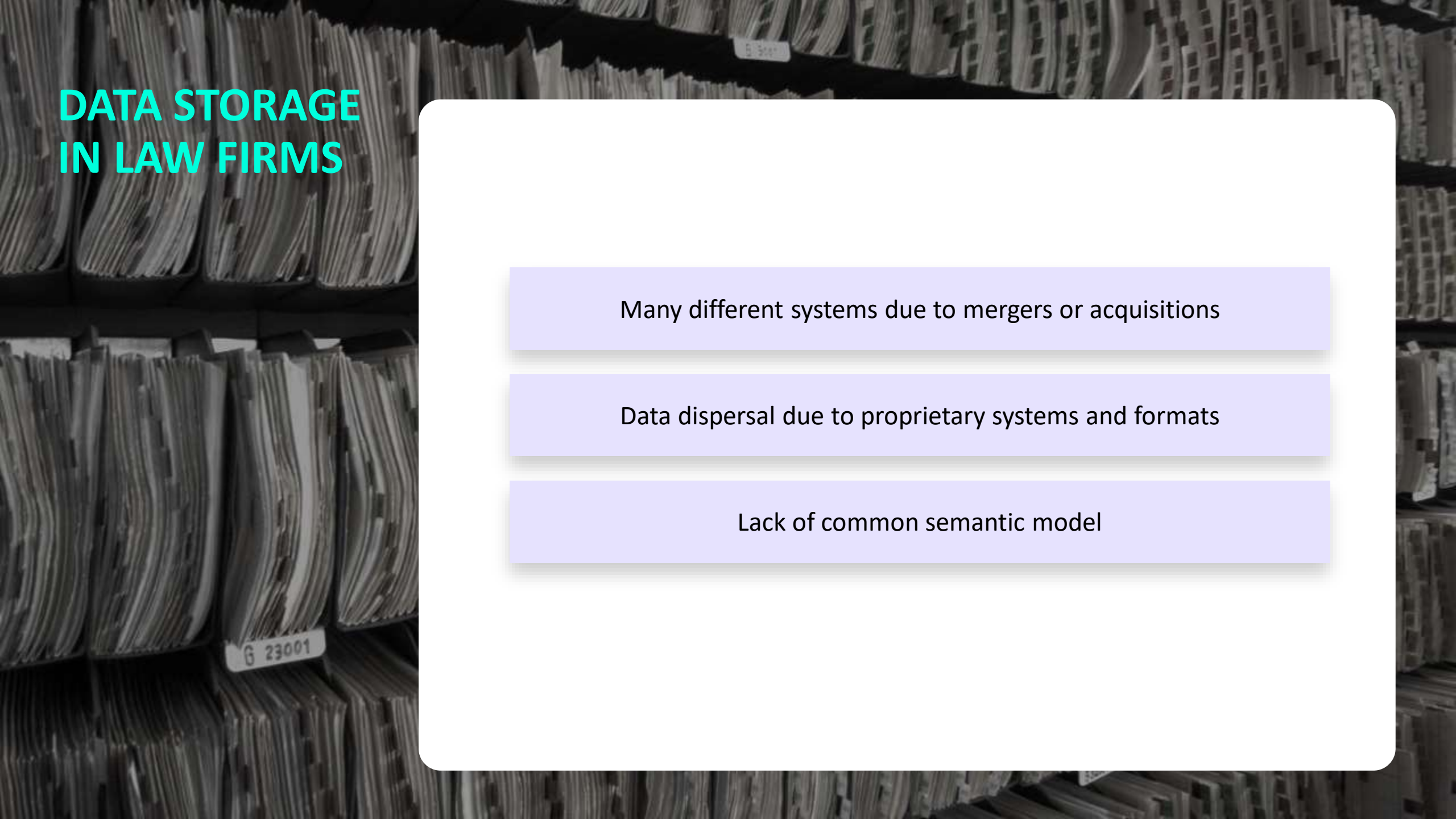


DATA STORAGE IN LAW FIRMS

Our goal

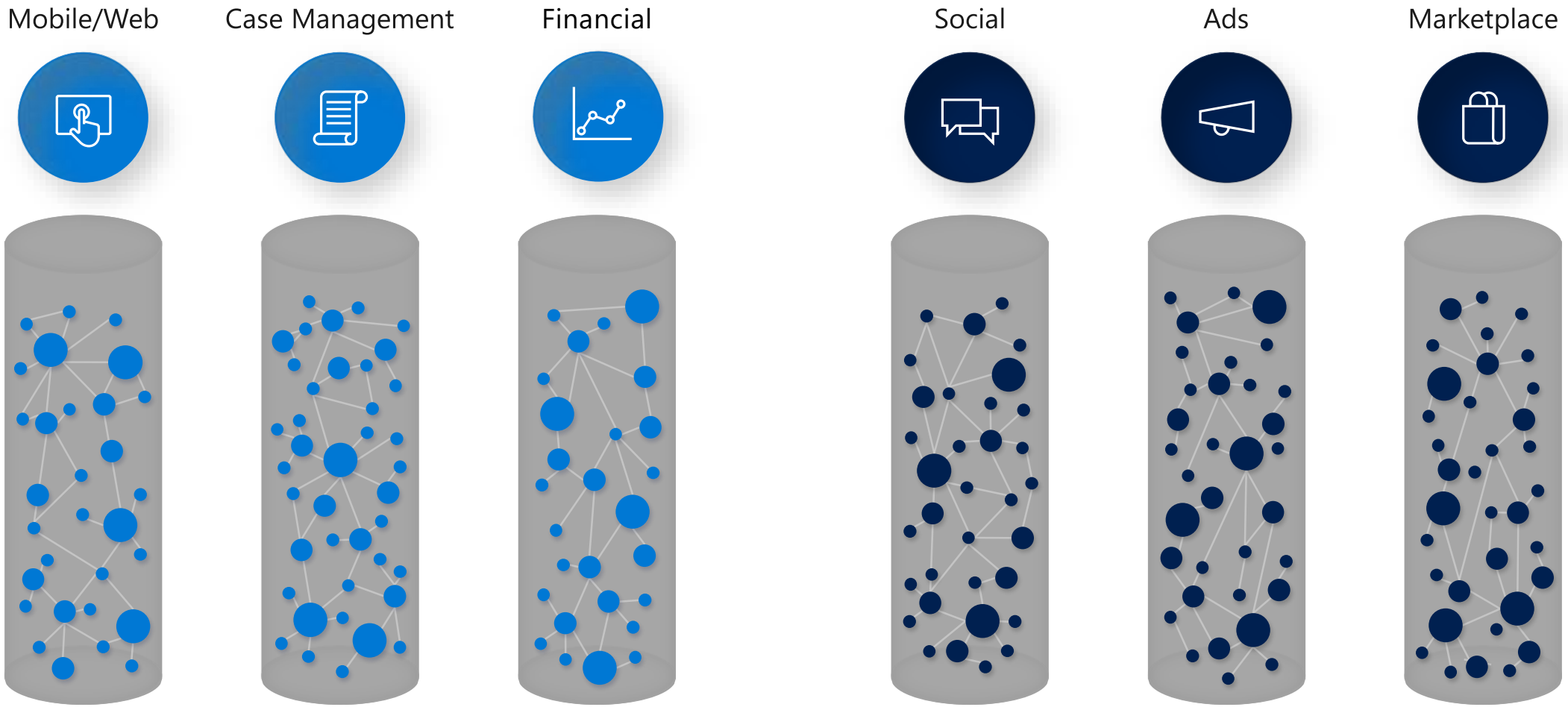


DATA STORAGE IN LAW FIRMS



- Many different systems due to mergers or acquisitions
- Data dispersal due to proprietary systems and formats
- Lack of common semantic model

We have lots of data, but it is in silos



We need semantic models

Mobile/Web

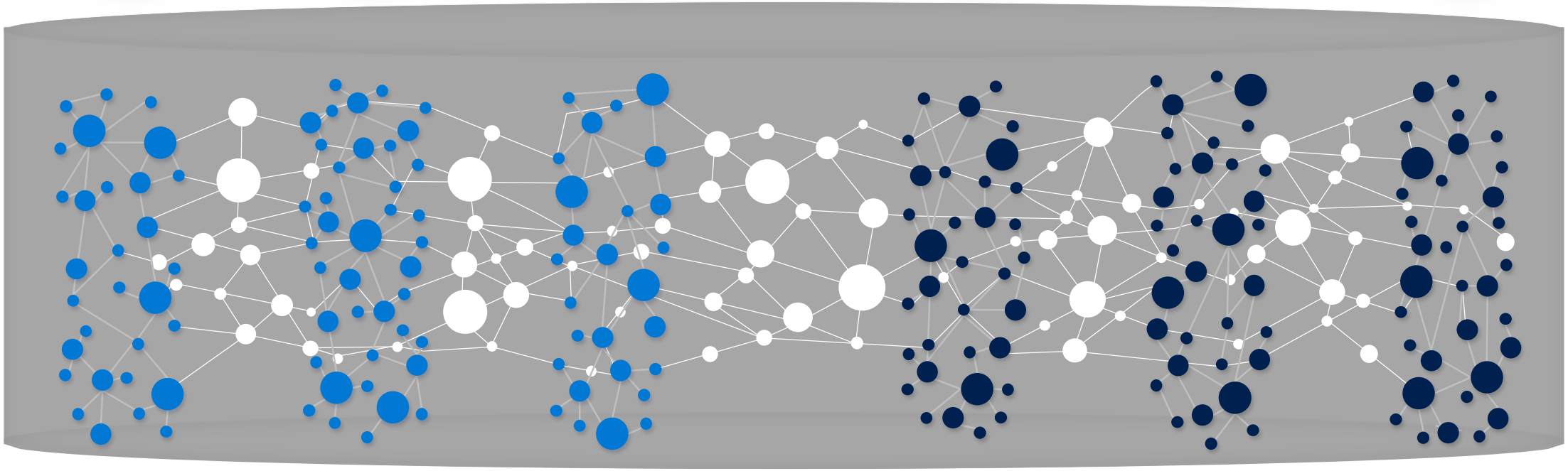
Case Management

Financial

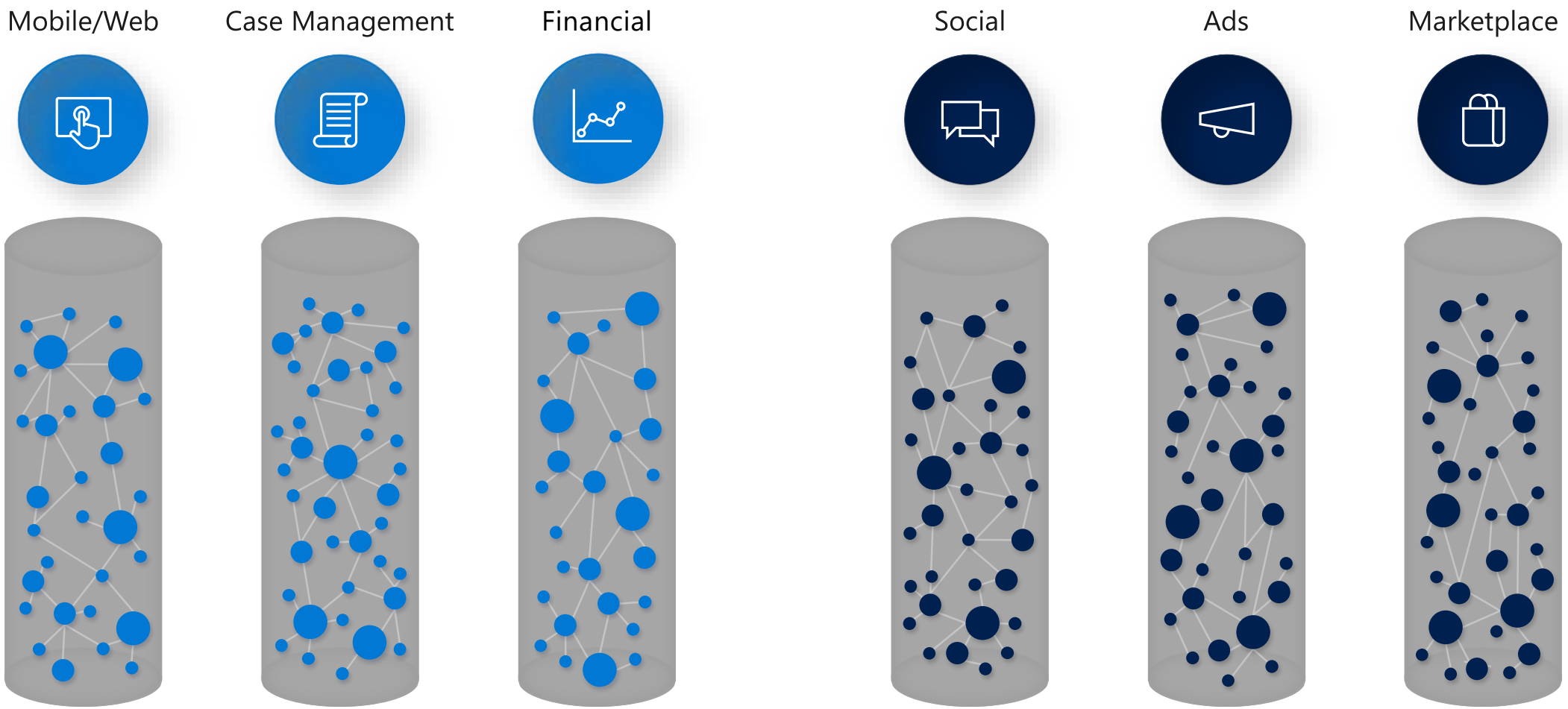
Social

Ads

Marketplace



Once upon a time…



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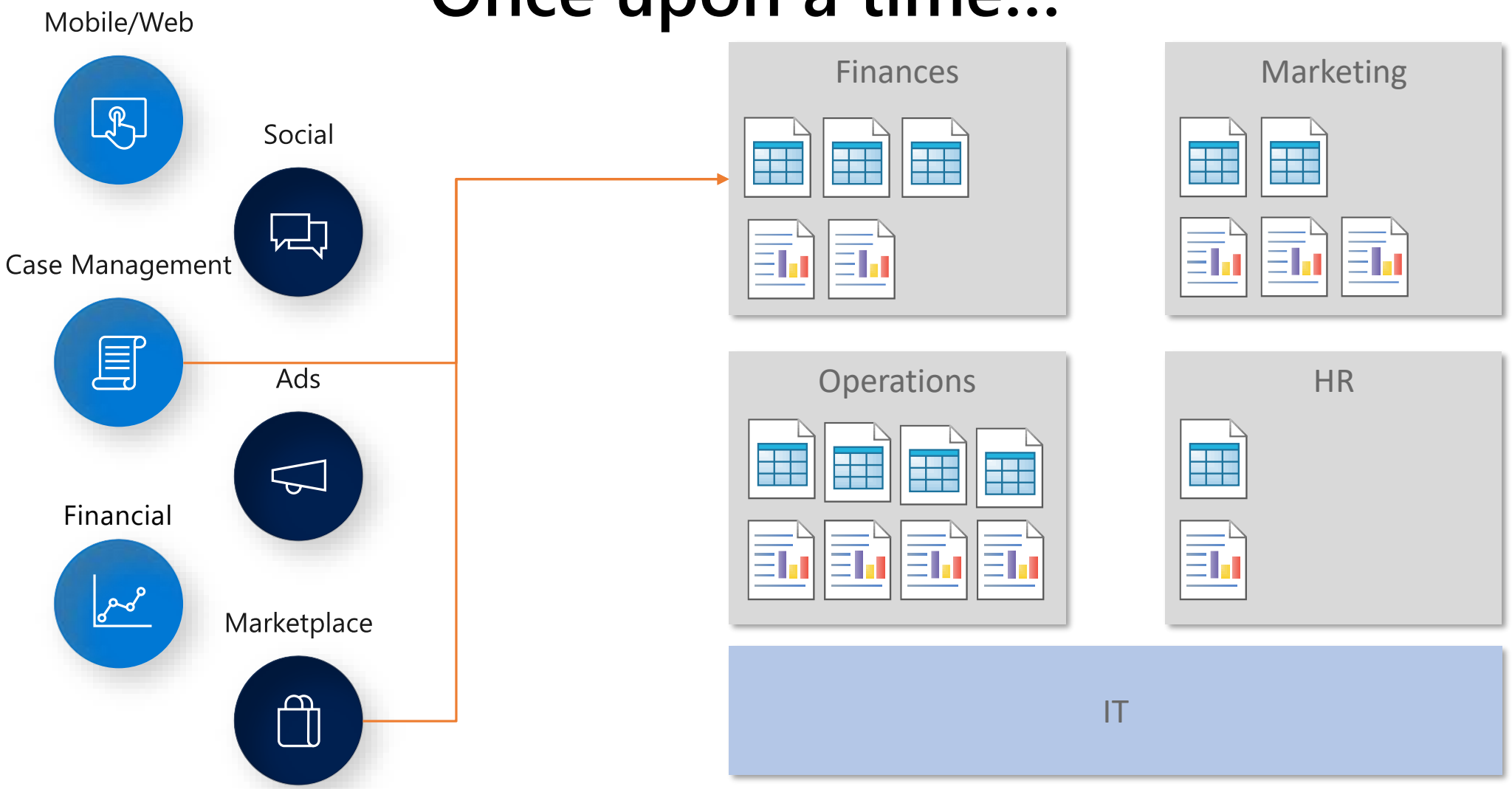
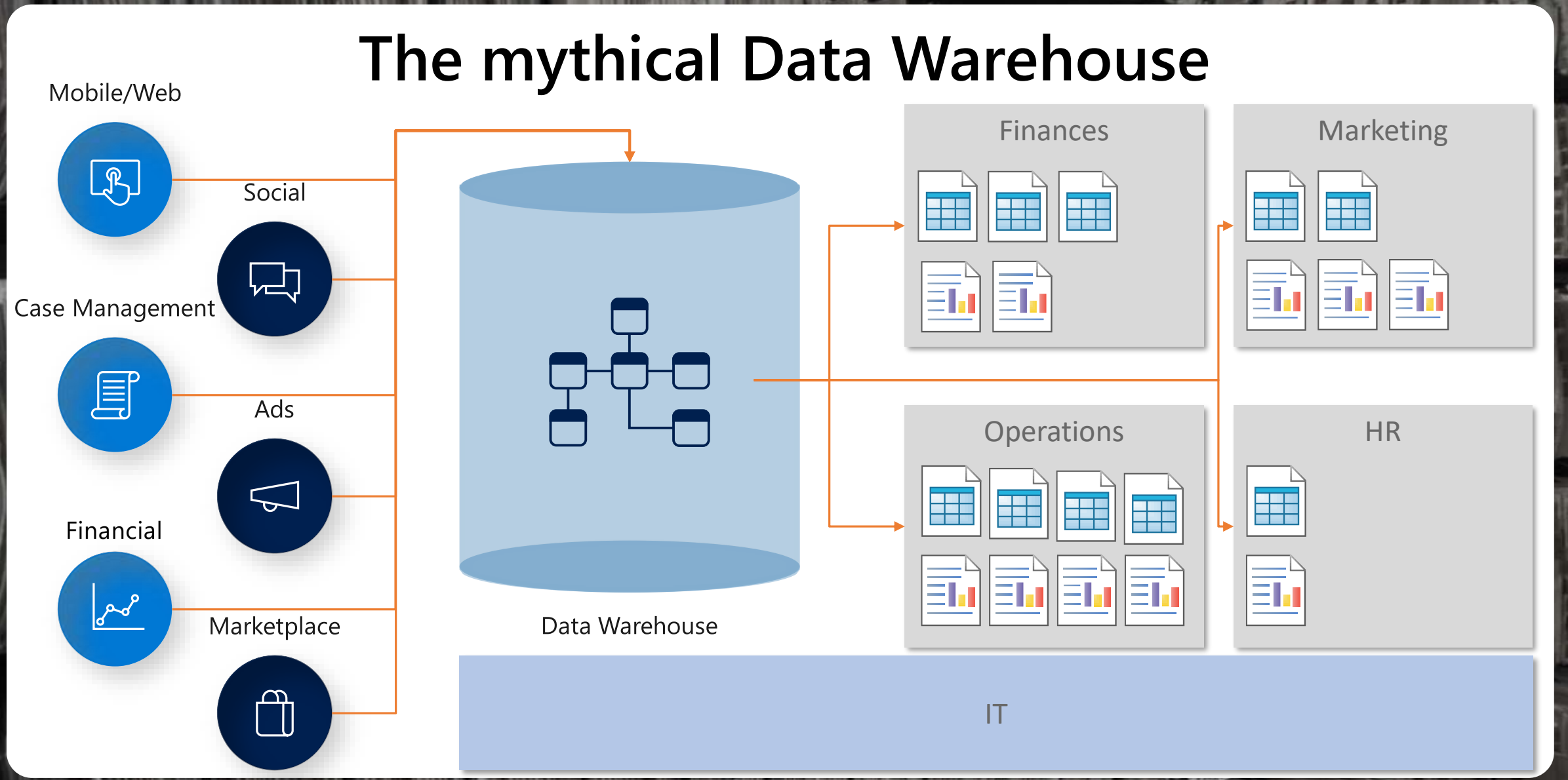
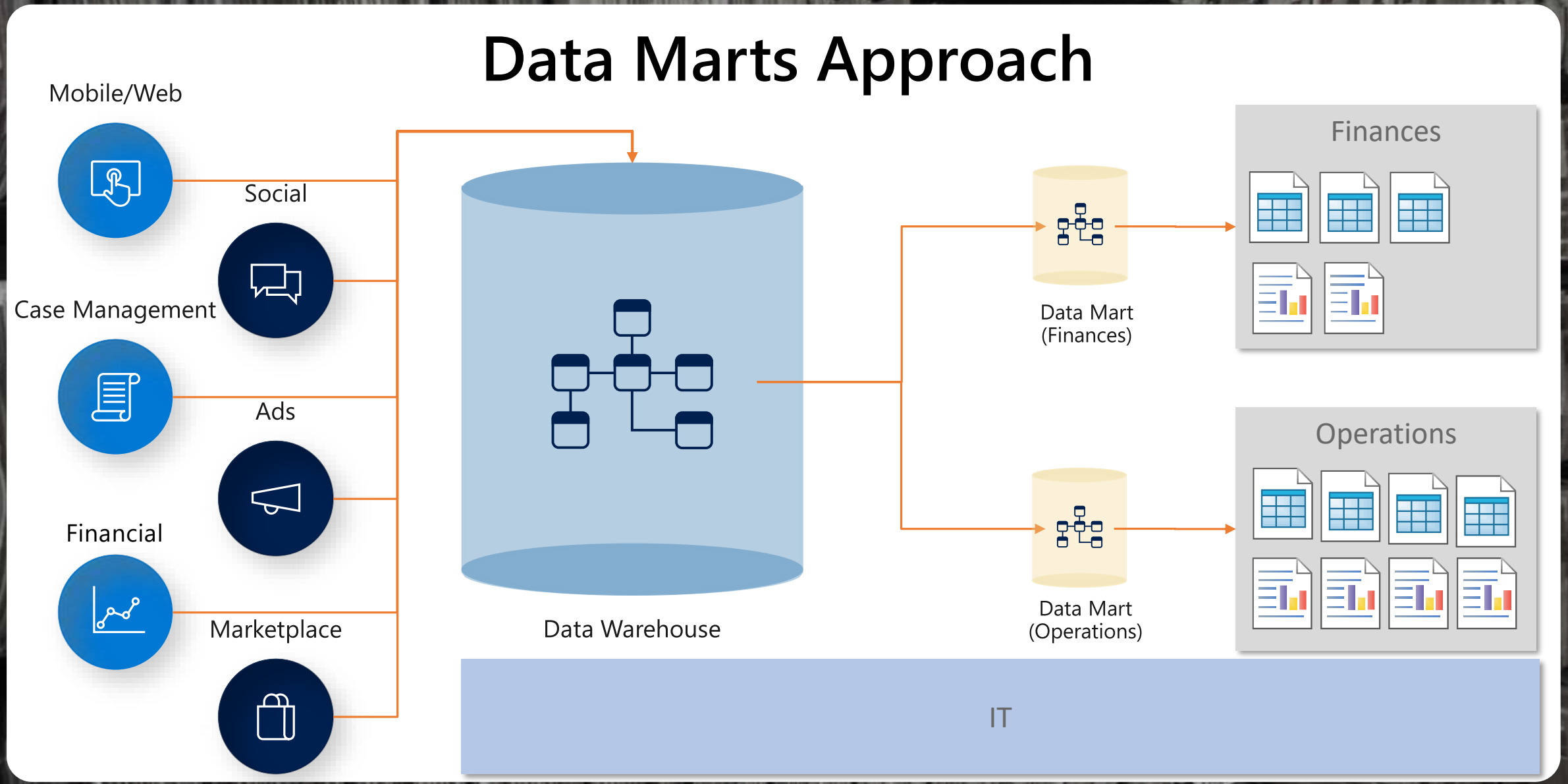
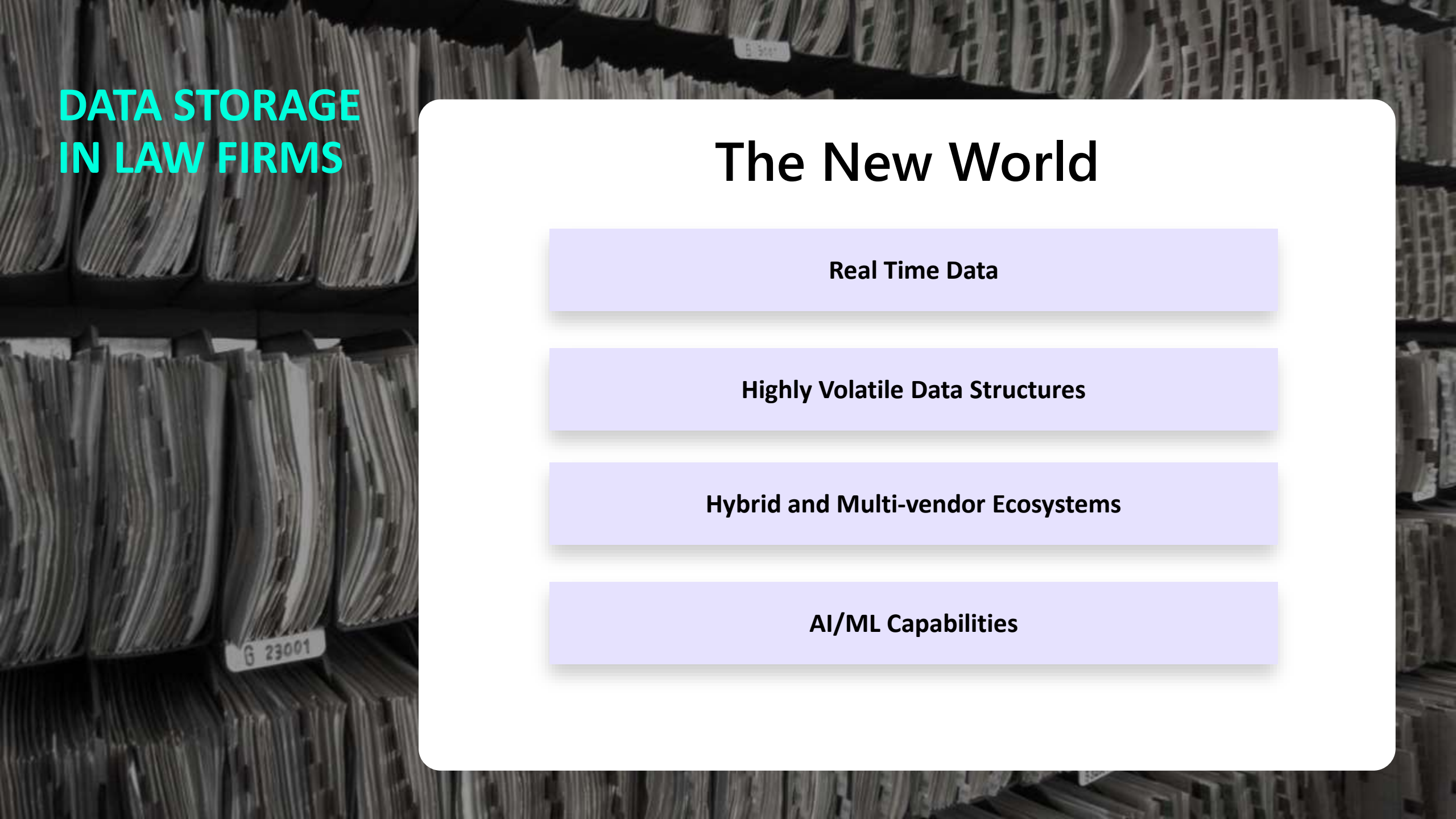


The mythical Data Warehouse



Data Marts Approach





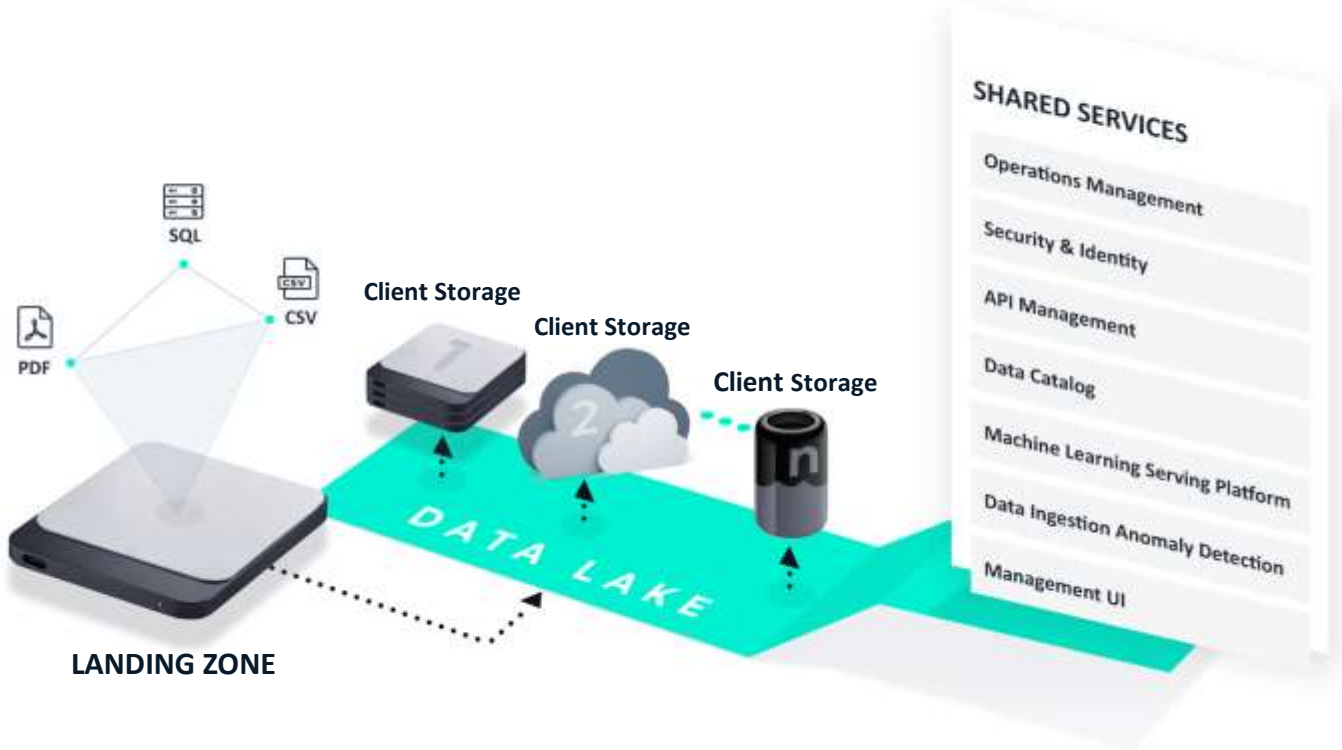
DATA STORAGE IN LAW FIRMS

The New World

- Real Time Data
- Highly Volatile Data Structures
- Hybrid and Multi-vendor Ecosystems
- AI/ML Capabilities

DATA STORAGE IN LAW FIRMS

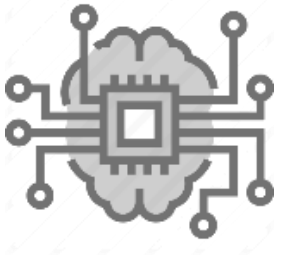
The Data Lake



Challenge #2: Access Control

ACCESS CONTROL AS A BUSINESS CHALLENGE

What is Access Control?



ACCESS CONTROL AS A BUSINESS CHALLENGE

Identity Providers

ACCESS CONTROL AS A BUSINESS CHALLENGE

External Identity Providers

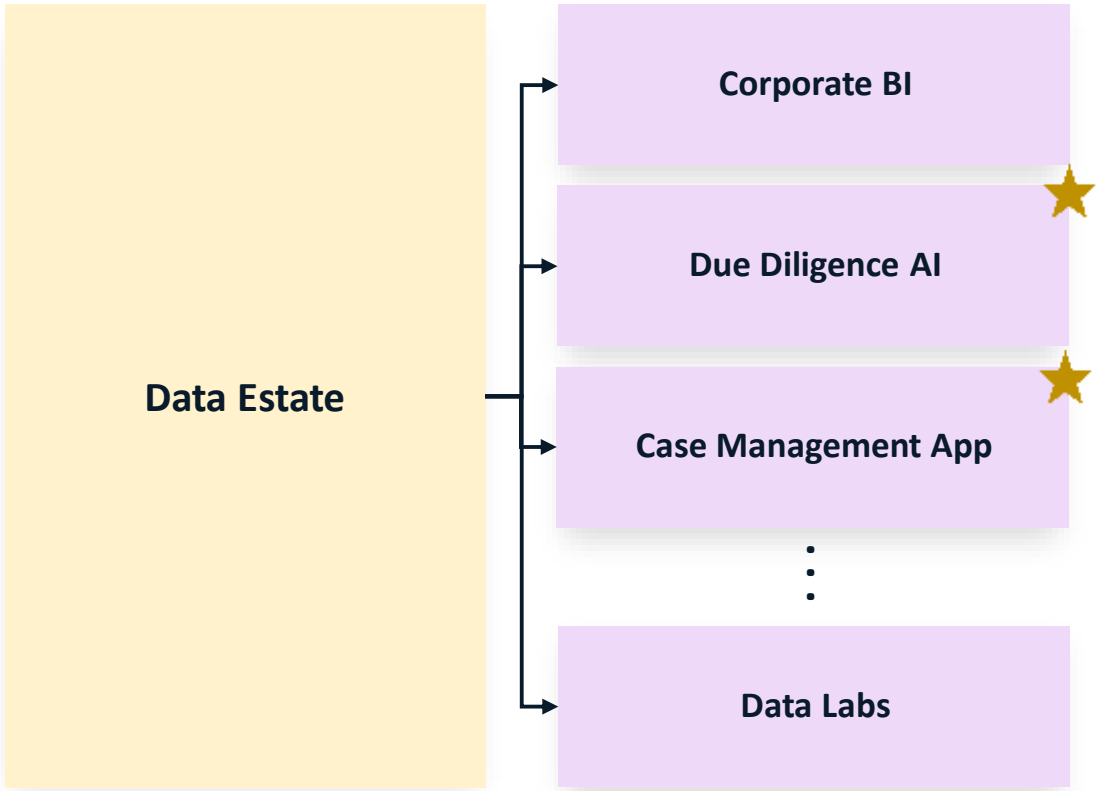
Our Azure Active Directory

Partner / Customer AAD

Other Identity Providers

ACCESS CONTROL AS A BUSINESS CHALLENGE

Why this matters?



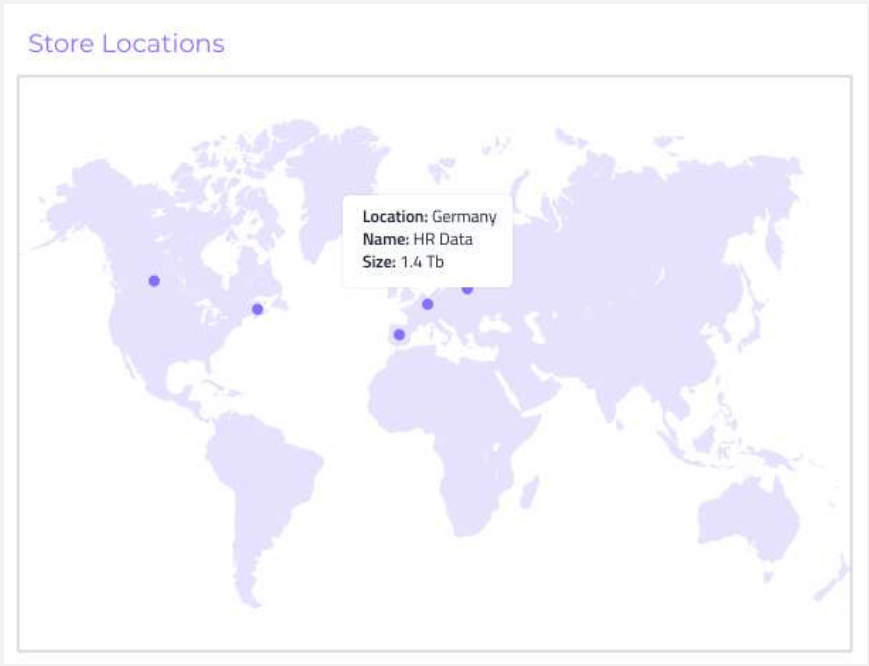
Challenge #3: Compliance

COMPLIANCE CHALLENGES IN LAW SECTOR

- Data Segregation
- PII Classification
- Personal Data Identification
- Complex Data Retention Policies
- Right to be Forgotten

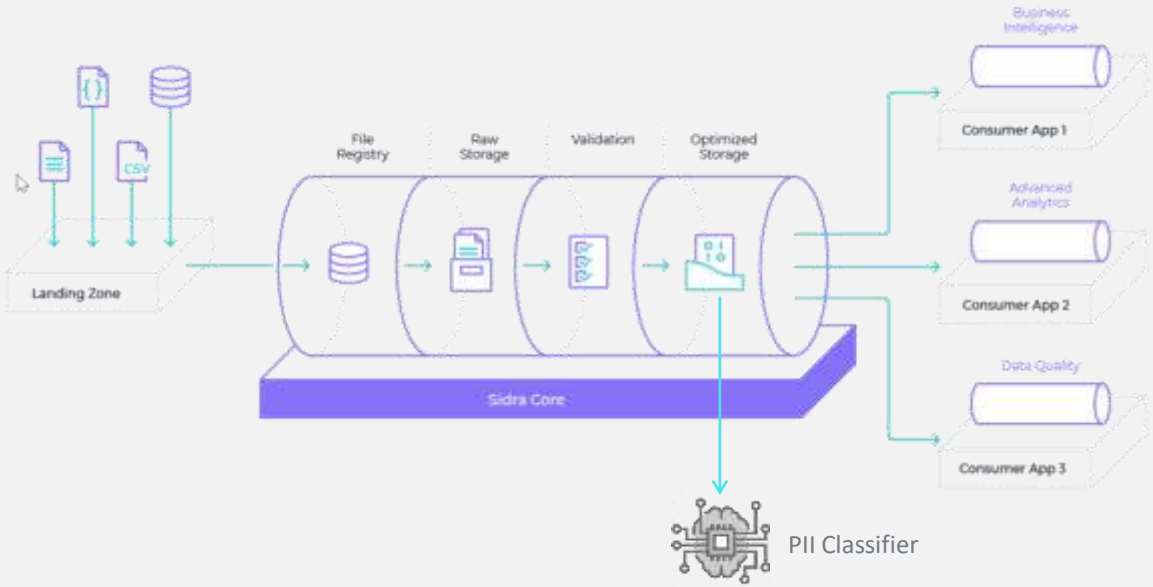
COMPLIANCE CHALLENGES IN LAW SECTOR

Data Segregation



COMPLIANCE CHALLENGES IN LAW SECTOR

PII Classification



COMPLIANCE CHALLENGES IN LAW SECTOR

Personal Data Identification

Central Repository

Data Catalog

Complex Querying

Natural Language Processing capabilities

Scale out capabilities

COMPLIANCE CHALLENGES IN LAW SECTOR

Complex Data Retention Policies

Central Repository

- Data Catalog
- Master Data

Multiple Modes

- Hard/Soft deletion and Data Masking
- Multiple Targets (Third party systems)

COMPLIANCE CHALLENGES IN LAW SECTOR

Right to be Forgotten

Central Repository

- Data Catalog
- Master Data

Multiple Modes

- Hard/Soft deletion and Data Masking
- Multiple Targets (Third party systems)

End User Querying

Challenge #4: Documents

HANDLING DATA IN DOCUMENTS

Natural Language Processing

- Knowledge Extraction
- Clause Outlier Detection
- Semantic Search
- Due Diligence
- Document Classification
- Social Media Investigation

HANDLING DATA IN DOCUMENTS

eDiscovery

Data Platform	Security
	Data Intake
	Storage and Compute
AI Models	Classifiers (PII, Tags, …)
	Custom Embeddings
	Version Management
Workspace Management	Access Management
	Content Sharing
	Timeline Management

THE AGENDA:

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DATA STRATEGY AT LAW FIRMS

Enable **agile development** of Use Cases

- BI, ML, Web/Mobile, etc.
- Complete lifecycle for cost management

Provide a single surface for **Data Governance and GDPR**

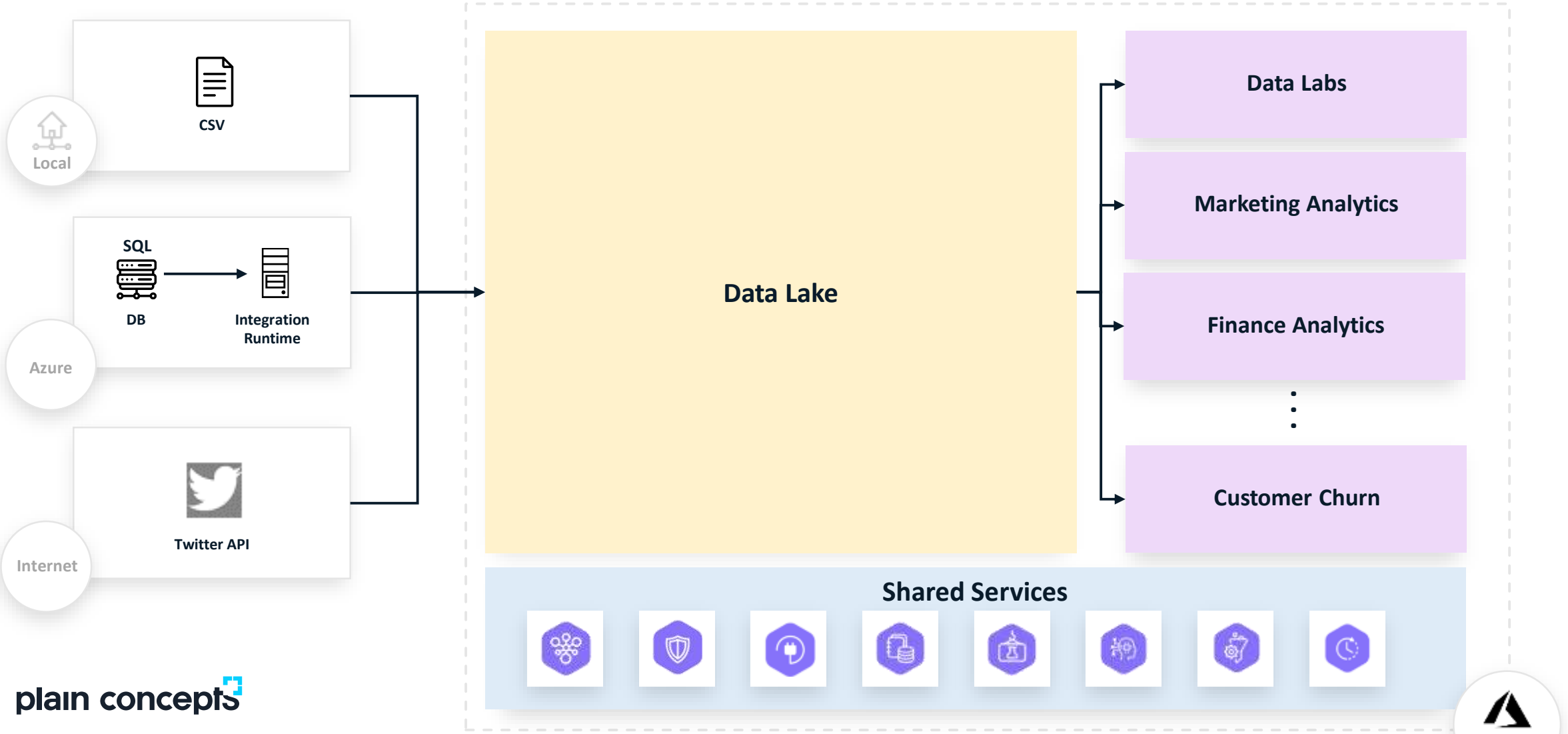
- Data Catalog
- Single Security Model
- Archival and Retention
- Right to be Forgotten

Allows for **sharing data, models and apps** with **third parties**

- Integration Hub
- Identity Management

Sidra Data Platform

ARCHITECTURE



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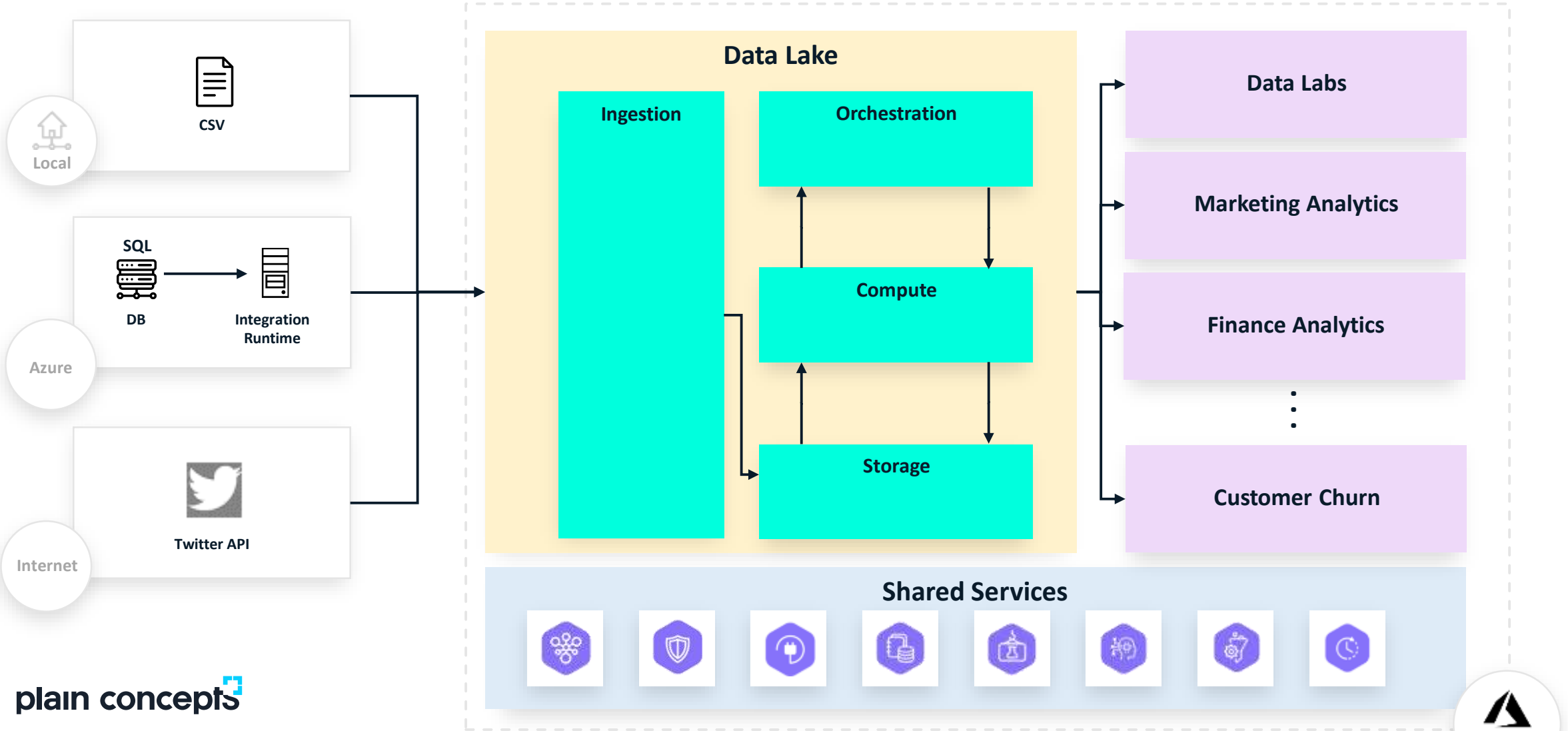
ARCHITECTURE



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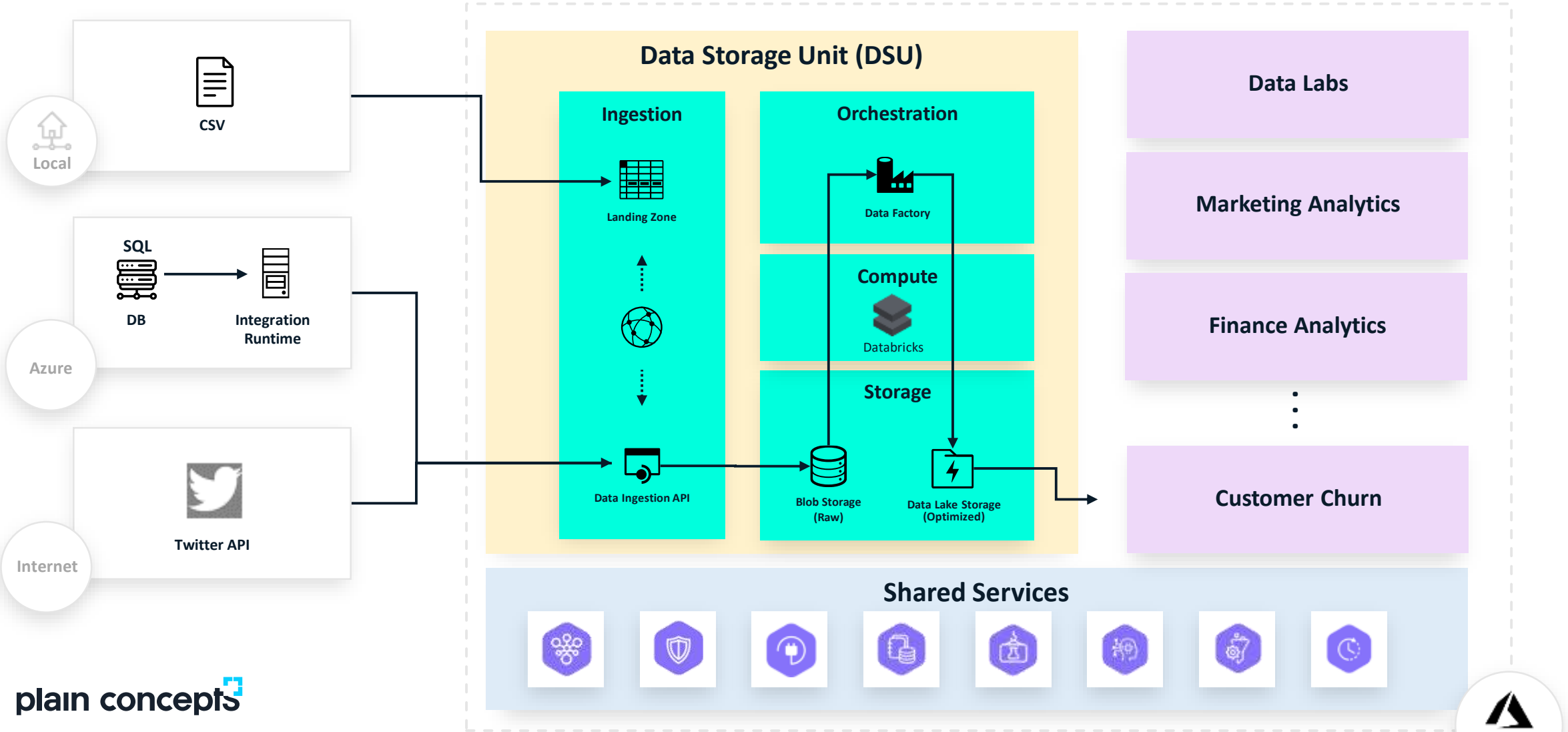
Azure

ARCHITECTURE



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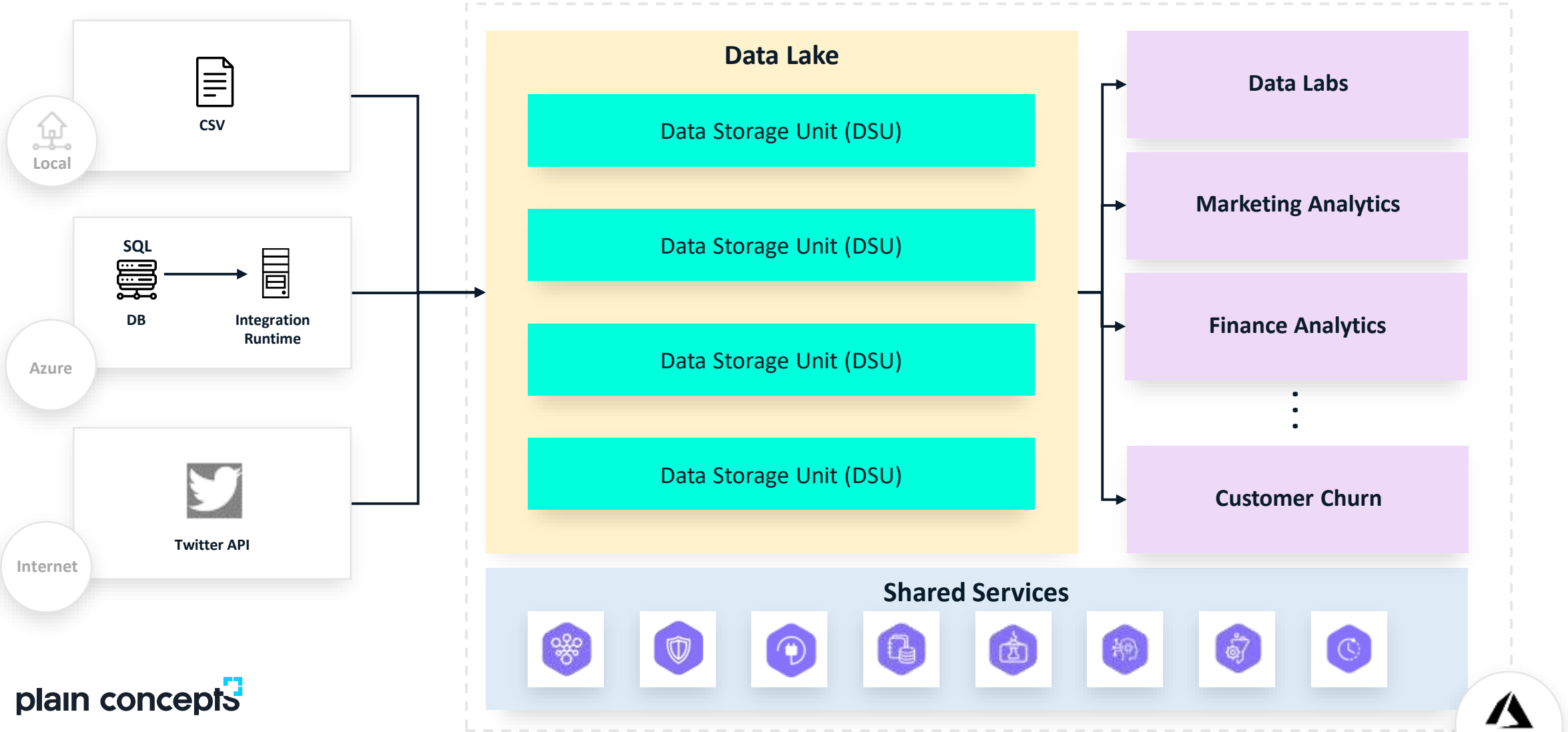
Azure

ARCHITECTURE



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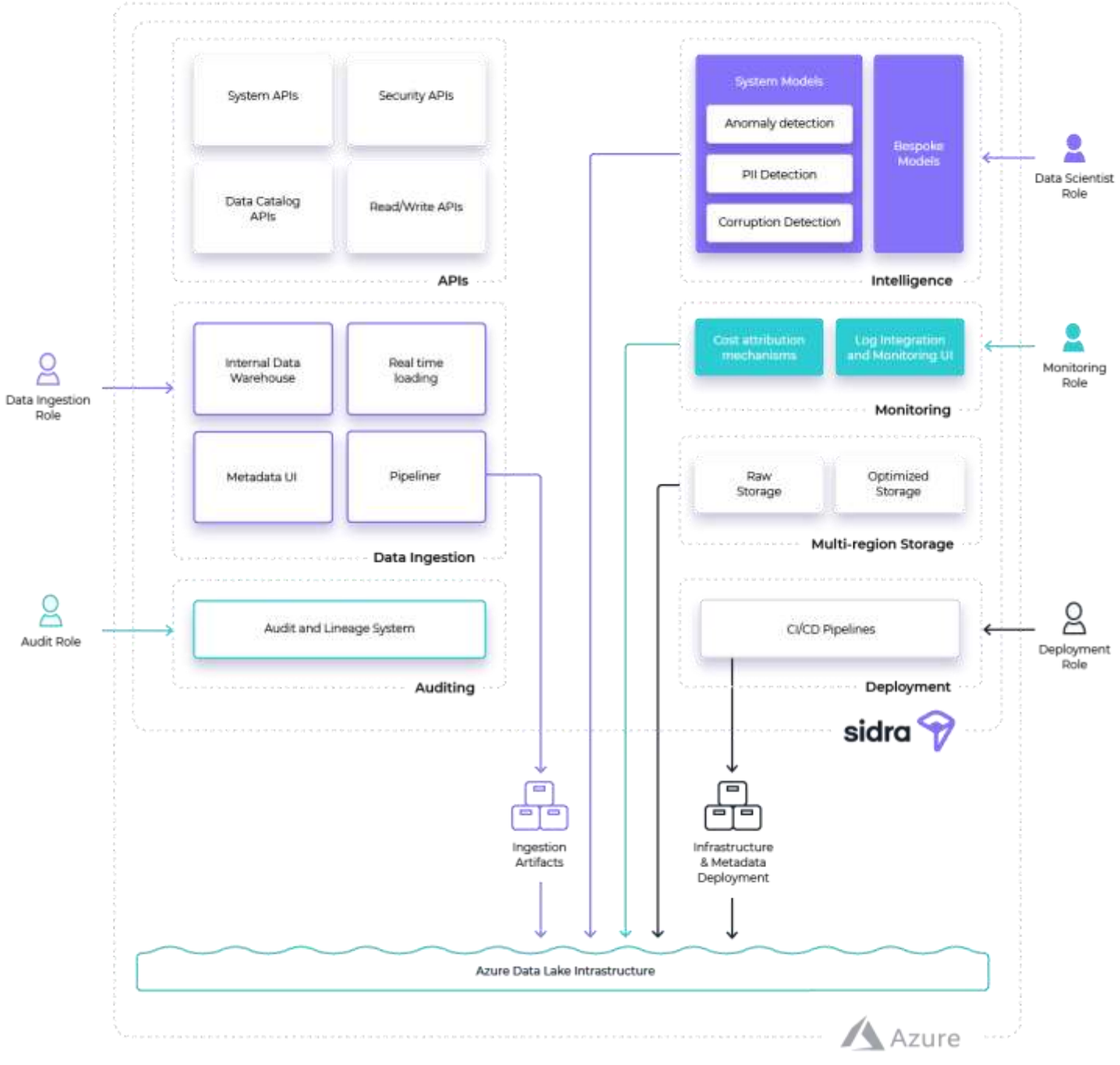
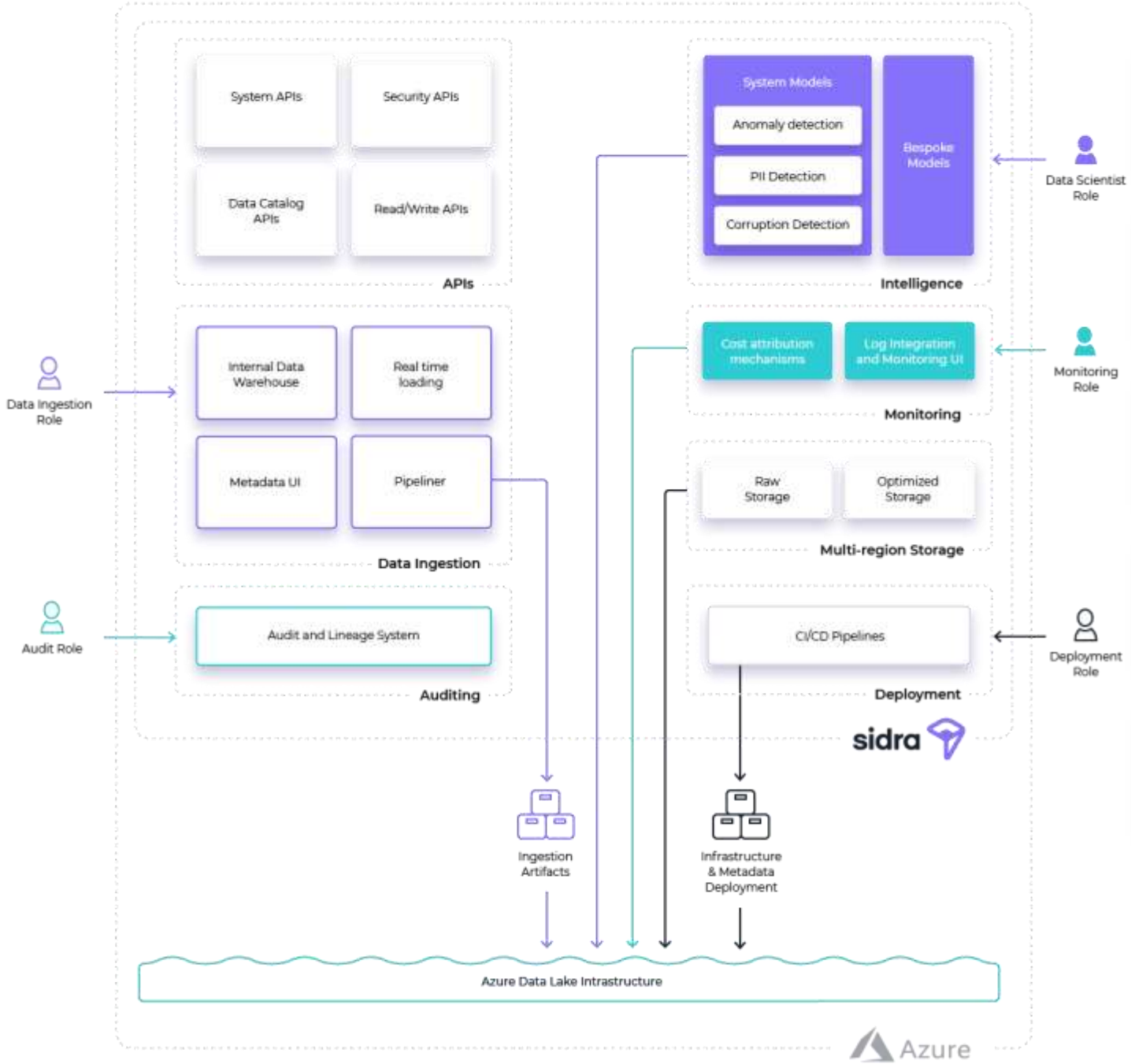
Azure


System APIs
Security APIs
Data Catalog APIs
Read/Write APIs
APIs
System Models
Anomaly detection
PII Detection
Corruption Detection
Bespoke Models
Intelligence
Data Scientist Role
Data Ingestion Role
Internal Data Warehouse
Real time loading
Metadata UI
Pipeliner
Data Ingestion
Cost attribution mechanisms
Log Integration and Monitoring UI
Monitoring
Monitoring Role
Raw Storage
Optimized Storage
Multi-region Storage
Audit Role
Audit and Lineage System
Auditing
CI/CD Pipelines
Deployment
Deployment Role
sidra
Ingestion Artifacts
Infrastructure & Metadata Deployment
Azure Data Lake Intrastructure
Azure



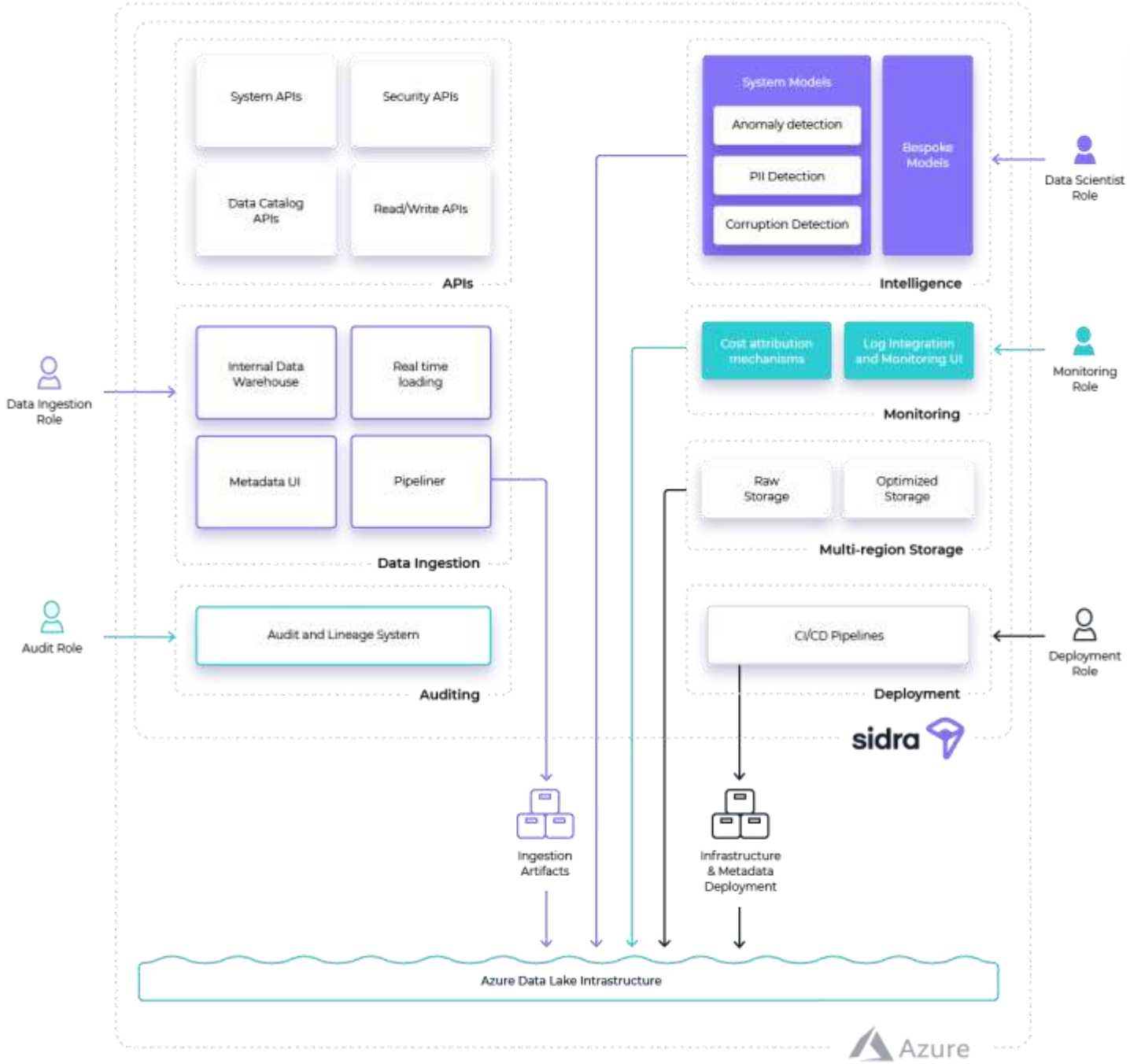
Data Intake

Use Cases

Security and Compliance

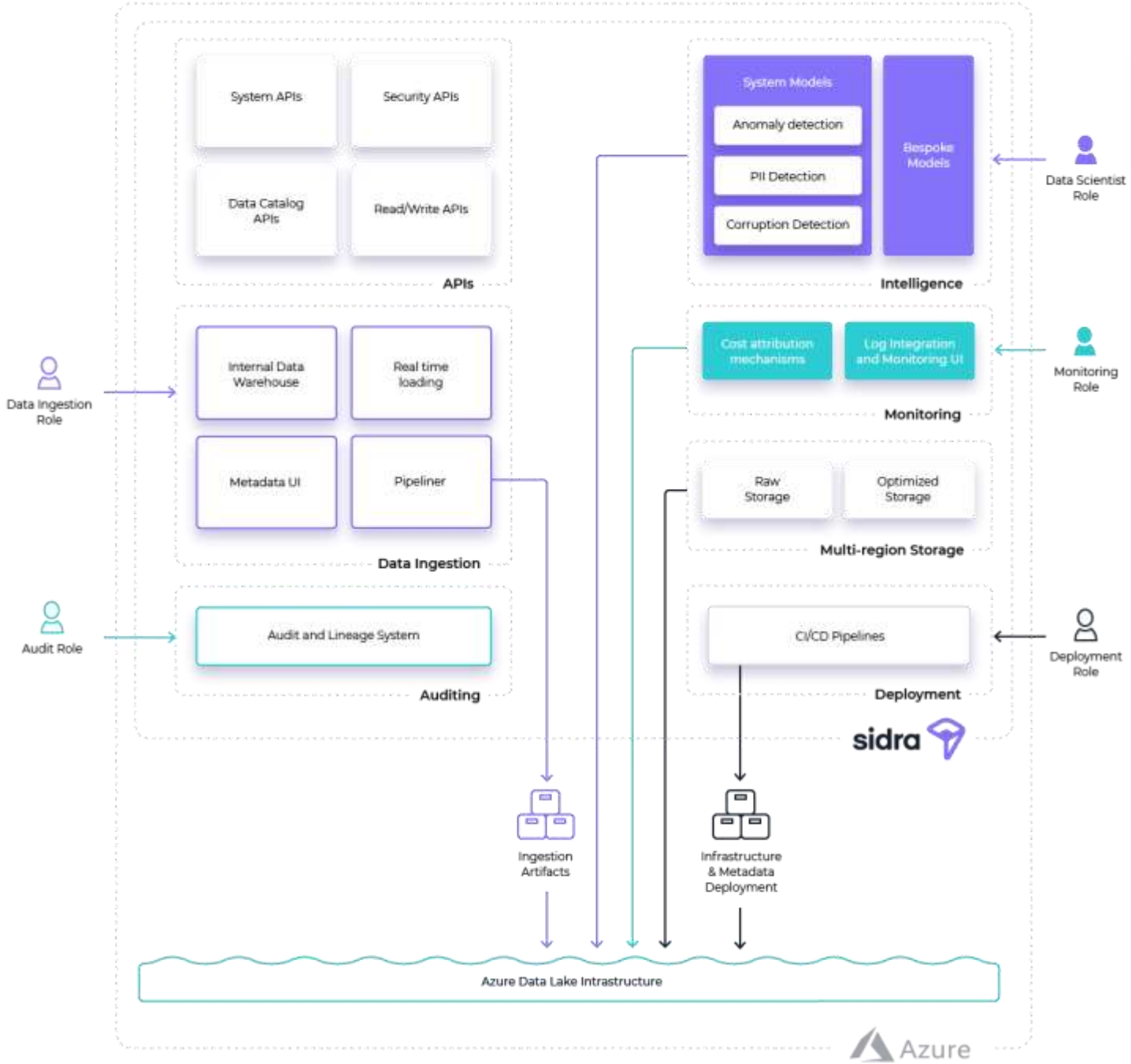
Data Governance

AI/ML Enablement



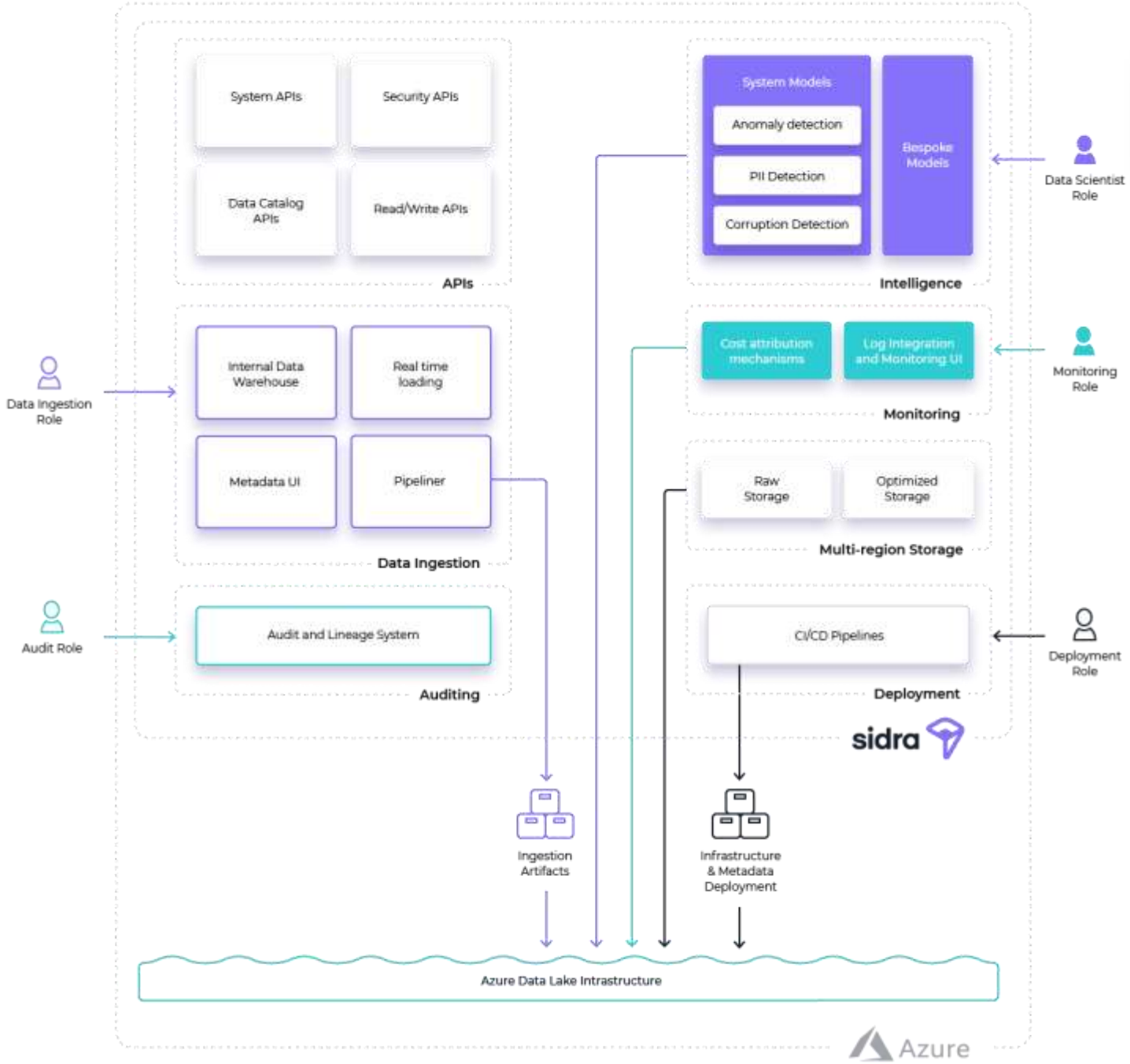
Data Intake

- Easy
- Performant
- Multimodal
- AI Enrichment



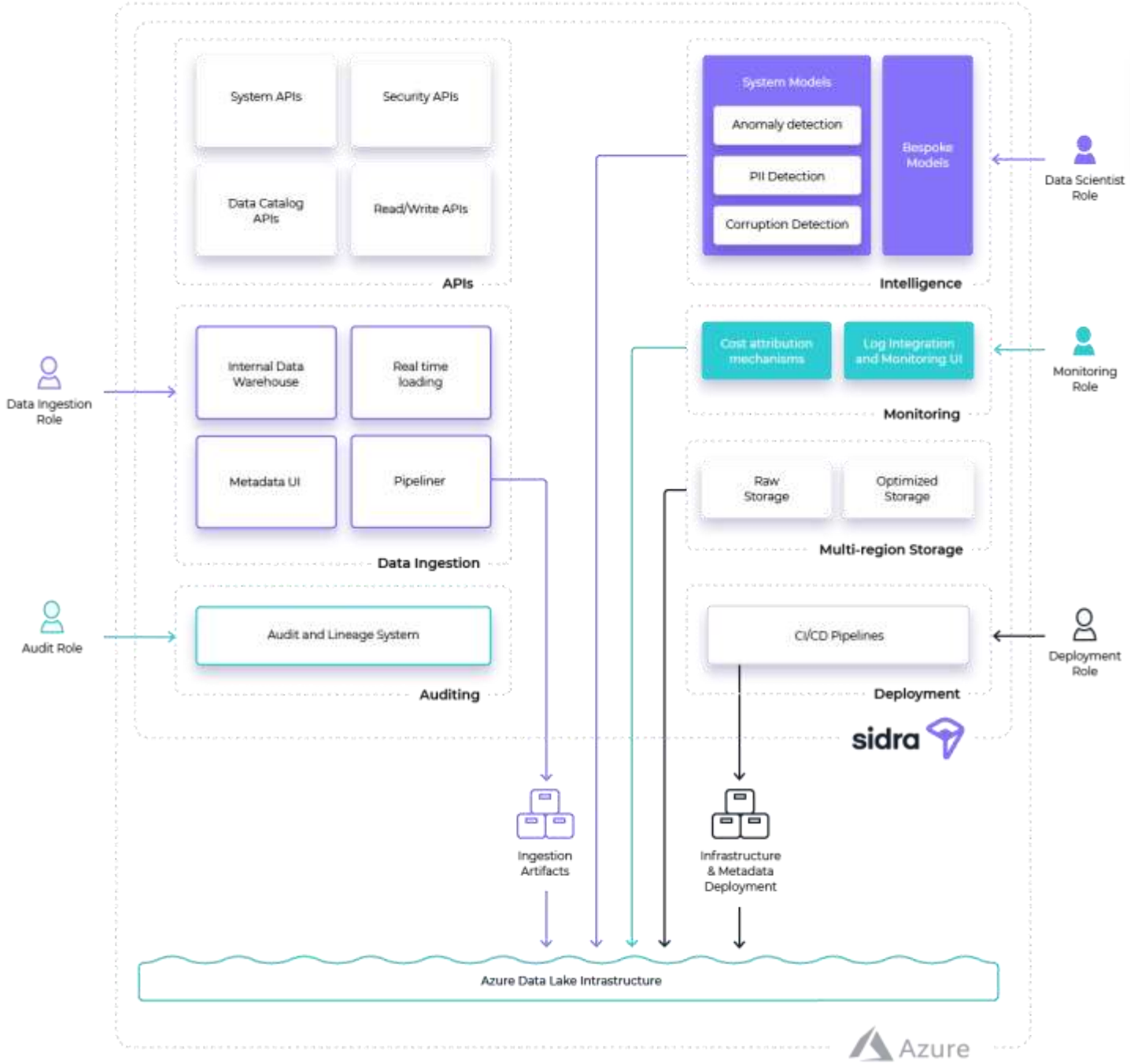
Use Cases

- Consistent Model
- Variable Compute/Storage
- Identity Management
- Cost Attribution



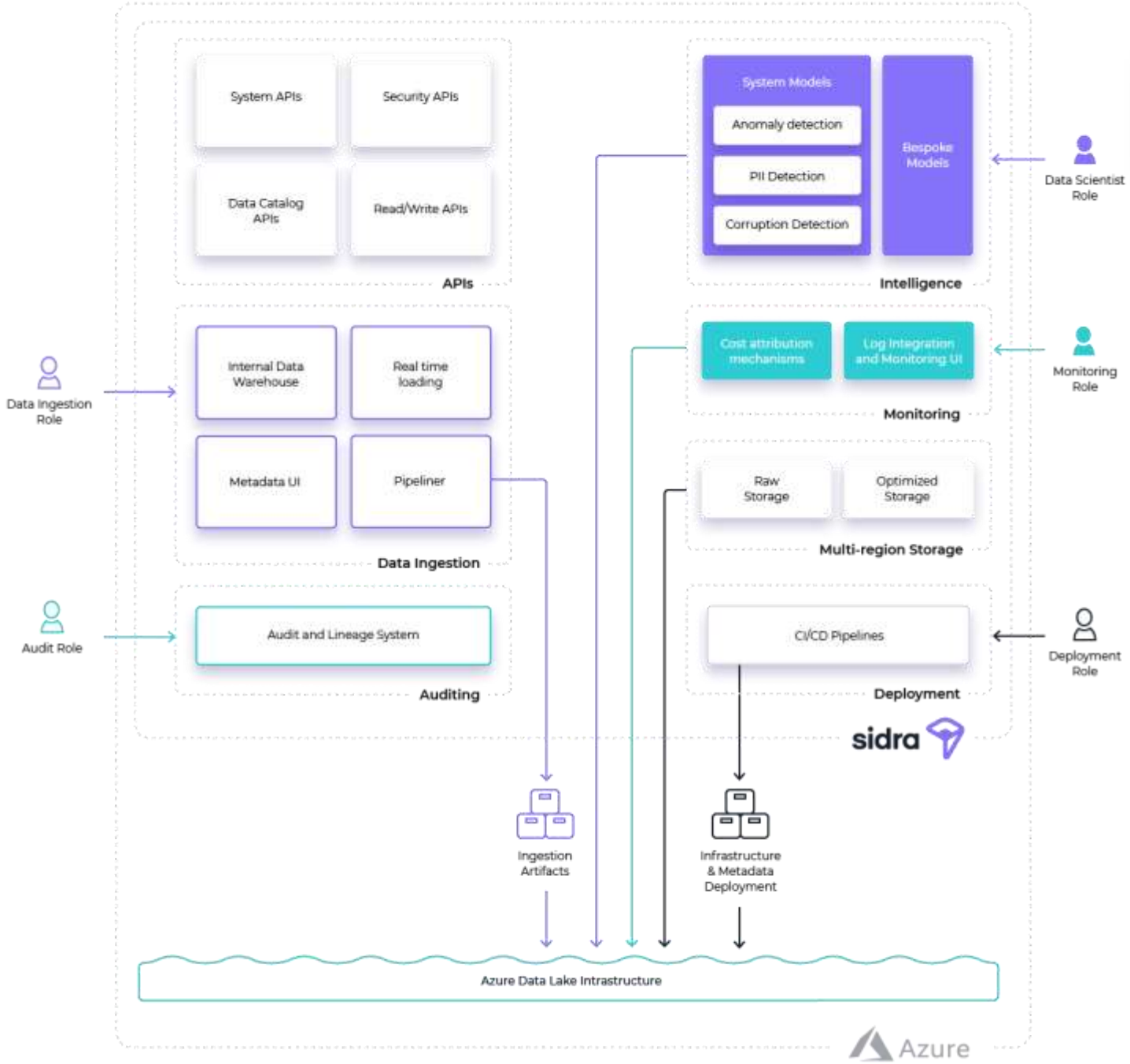
Security and Compliance

- End-to-end Security
- Automatic PII Detection
- Automatic Sensitivity Classification
- Data Retention / Archival
- Identity Management



Data Governance

- Data Catalog
- Lineage Tracking
- Intake Anomaly Detection

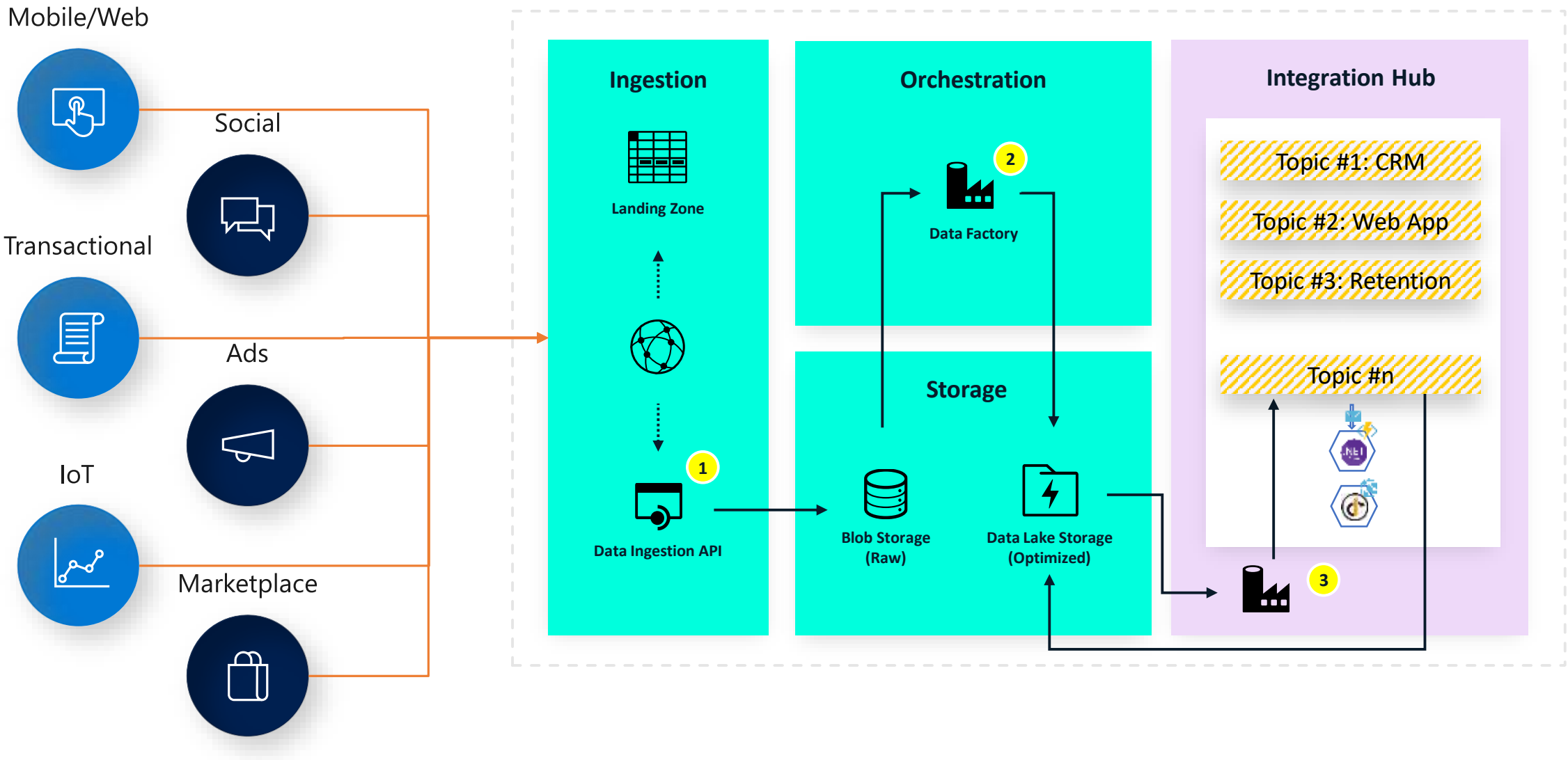


AI/ML Enablement

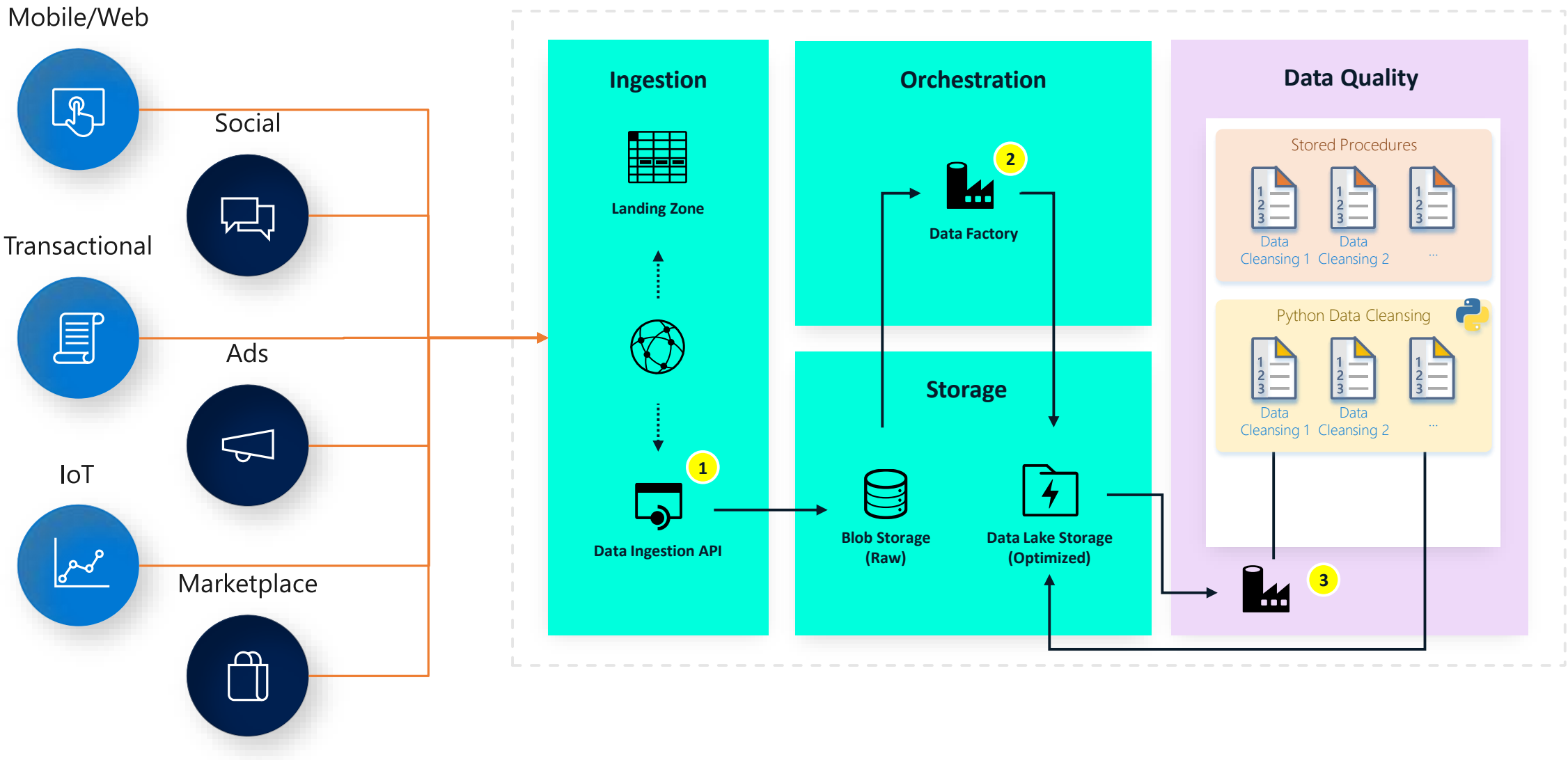
Model Serving Platform

Skill-based Data Augmentation

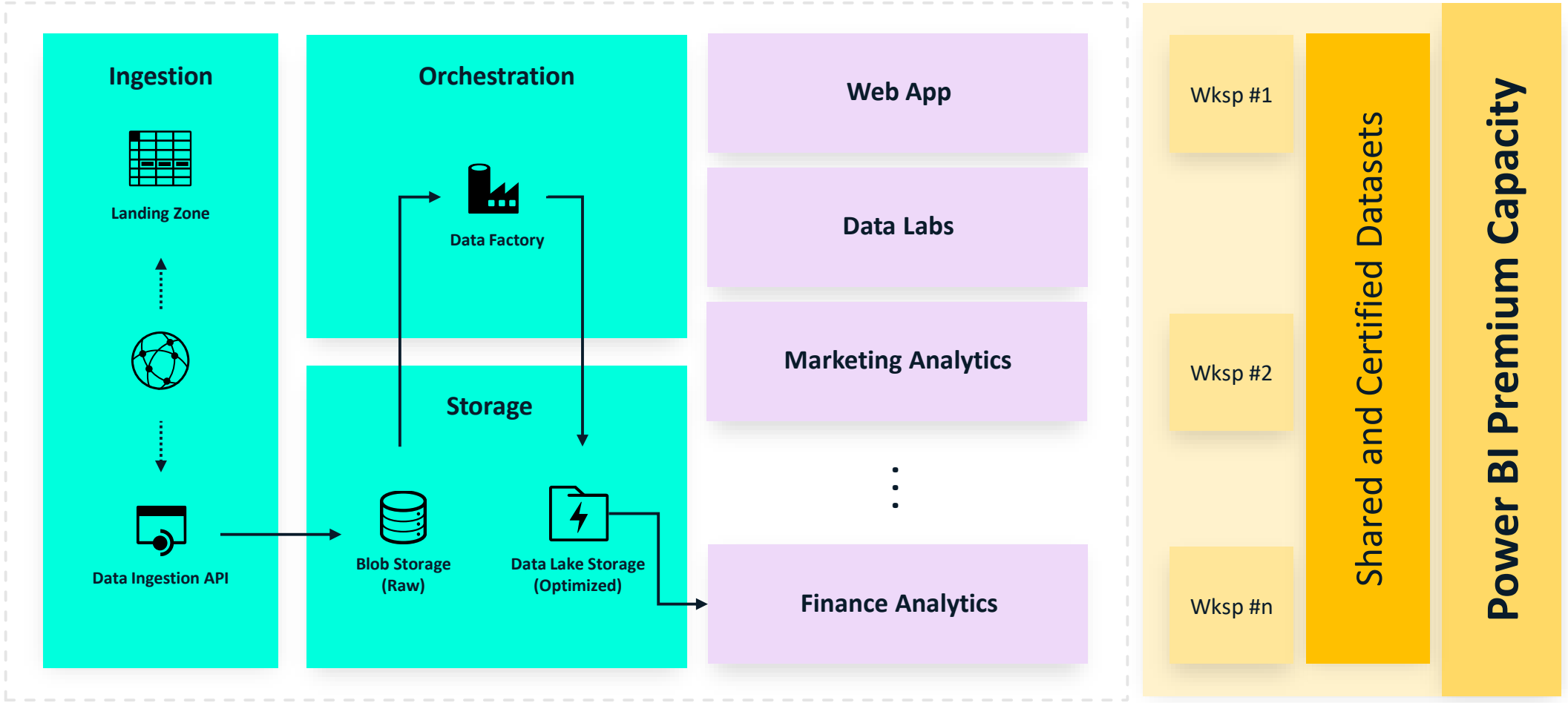
SPECIAL CASES – INTEGRATION HUB



SPECIAL CASES – DATA QUALITY



CLIENT APPLICATIONS - BI



Final Thoughts

BACK TO INNOVATION

Innovation through AI...

- Real Time Churn Analysis
- Knowledge Extraction
- Lead Cases Selection
- Automatic Case Classifier
- Document Classification
- Semantic Search
- Case Outcome Forecasting
- Clause Outlier Detection
- Settlement Forecast

NEXT STEPS

Call to Action

Data Strategy Workshop

Data Architecture Assessment

THE AGENDA:

- Trends
- Challenges
- Data Strategy
- Q&A

THANKS FOR YOUR TIME

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