

kyndryl™



Microsoft

Data Estate Modernization, Governance, Analytics & AI

Harness the Power of Your Data on Azure

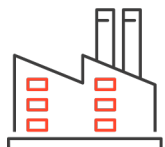
Kyndryl Delivers Significant Data Estate Modernization & Management Benefits

Leveraging Azure's unified enterprise-wide data fabric, Kyndryl delivers end-to-end business transformation & data estate modernization services to provide significant customer benefits:

- **Meaningful insights** from your entire data estate
- Better analytics to understand needs for **improved customer experiences** and **operational efficiencies**
- **Simplified data governance** & compliance management
- **Reduced costs** for data management
- Data & Analytics systems **performance improvements**
- **Better productivity** and business-user effectiveness via low-code/no-code tools
- Scalable advanced analytics, machine learning and AI for faster, more **effective innovation & operations**
- **Faster time to value** - discover sensitive data in inherited platforms quickly, and promptly enforce policies on its use



Proven Experience with Data Estate Management & Enterprise AI



Manufacturing

(Turkey)

Business outcome expected : Predicting production failure beforehand to improve productivity by 30%

Challenge: Siloed data sources, In past investment made in several Data products, but absence of a context driven integrated scalable Data fabric

Solution: Synapse Analytics and AI platform-based on Kyndryl's Data Fabric architecture

Benefits expected:

- **32% TCO reduction**
- **18% Increase in machine availability** & over 15% reduction in maintenance expenditures
- Over **35% reduction in quality defects** through sensory, audio & video analytics
- **5-7% higher production yield** due to proactive maintenance
- **10% reduction in cost of labor** per unit of production



Healthcare

(Singapore)

Business outcome expected: Getting an integrated view of patient journey and possible cross service opportunity

Challenge: Absence of single source of truth for patient data, siloed data sources, lack of granular privacy control

Solution: Synapse Lake House-based data platform to aggregate data across multiple silos for absence of advanced analytics capability

Benefits expected:

- **Patient 360** view for driving revenue by cross selling and increased customer retention
- **Predictive models** to be tuned when accuracy dropped below certain threshold.
- **Enable integration and compliance** with Data Privacy tools along with data security

Focus Industries



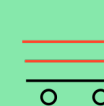
Banking



Manufacturing



Telecom

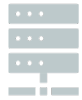


Retail



Healthcare

Customer Data Challenges



Ineffective, inflexible,
unscalable data strategies



Disparate tools to capture,
manage, and harness data



Numerous data sources,
formats & storage mechanisms



Inability to effectively view
siloeed data sources



Outdated data management
processes



Use cases issues such as
customer churn or visualization



Need for predictive analytics to
inform decision-making



Desire to innovate quickly with
Analytics & AI

Data Estate Modernization, Governance, Analytics & AI

Enhance your decision making as well as customer and business insights via Kyndryl consulting, design, implementation and management services

Modernization, governance, & analytics framework



Automated workflows and built-in intelligence



Data lake & data warehouse transformation



Data@Edge & DataOps integration & implementation

Consulting to Create Strategies and Designs



Co-creation of data-driven business strategies and Azure architectures, & design data solutions to improve operations & better understand customers

Data Lake & Data Warehouse Transformation



Design & development of Azure data lake, data warehouse, IOT and data@edge solutions, integrating on-premises and multicloud environments

Data Integration & Operations Enablement



Design, integration & configuration of data platforms, tools & processes to enable simple and secure data integration and management

Intelligent Analytics Implementation



Automation, data ingestion, curation, & intelligent analytics, building Power BI Dashboards to visualize data in novel ways, providing meaningful insights

Enterprise AI Services



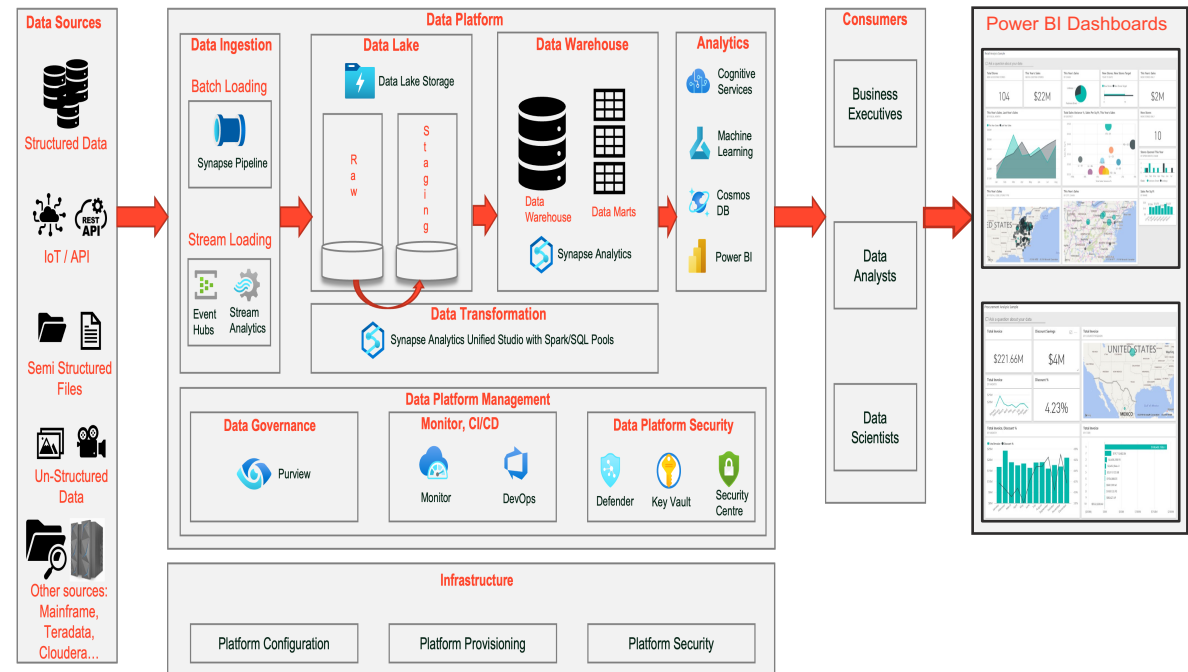
Consulting & AI Application Development for IT and business operations (such as Chatbots), powered by Scalable AI (data foundation, pre-built Azure assets, AutoML, ML-Ops, synthetic data generation)

Data Platform & AI Management Services



Mission-critical monitoring, reliability management, governance, privacy and security management, leveraging Kyndryl Data & AI Console for intelligent data fabric control & operations

kyndryl



Harness the Power of Your Data on Azure

Kyndryl's Data Estate Modernization Approach

Phase-1
Assess



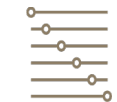
Assess existing data ecosystem, application affinity, ecosystem components, 3rd party integrations, code complexity and performance goals vs. actuals

Phase-2
Define



Evaluate various options for target Azure environment, define the roadmap, identify application priorities and provide a high-level design and project plan

Phase-3
Pilot



Implement a data estate modernization pilot project for a set of applications, along with data governance KPI's, in a non-disruptive, parallel environment for easy validation

Phase-4
Build



Build the target Azure environment, transform code & business logic, implement data governance and data security and compliance policies and integrations

Phase-5
Move



Migrate data and workloads in batches. Validate the code, schema, reports and business functions. Validate and optimize the environment to meet the defined goals

Phase-6
Operate



Cut over to new Azure environment, manage services and continuously evaluate performance and integrations. Re-engineer processes leveraging new environment

Modular Approach:

- Discover customers' current data landscape & data management capabilities
- Identify KPI's for management (existing/proposed)

Customer Benefits:

- ✓ Identify starting point in your data transformation journey
- ✓ Assess not only your technological capabilities but also your staff skills, monitoring and processes
- ✓ Highlight current data governance KPI's and benchmark results against goals
- ✓ Manage data privacy & risk – Improve compliance, effective management of regulatory, financial, and operational risk

Customer Pain Points

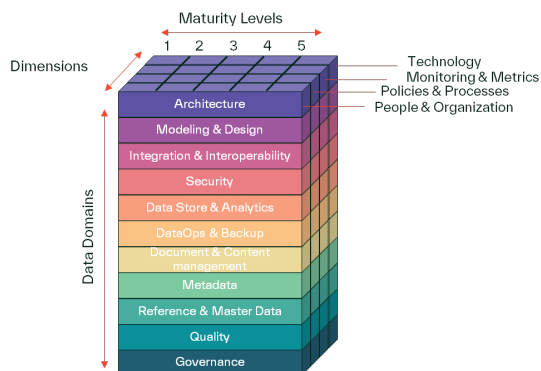
Many organizations want to become data-driven, but they face many problems:

- How do we start with a small investment?
- In which initiatives should we invest?
- Do we have the right staff capabilities?
- Is our data platform able to support use cases adoption at scale?

How Kyndryl Provides Solutions

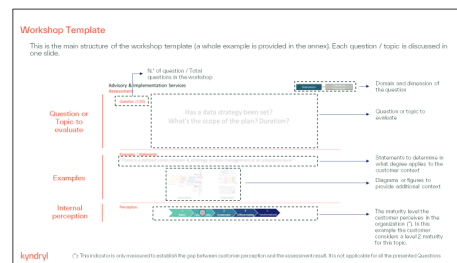
01 Framework

- Modular Data Assessment & Governance Framework to focus only on the areas you need to assess
- Different 'flavors' ranging from a basic assessment with low investment to a comprehensive one (+400 questions)



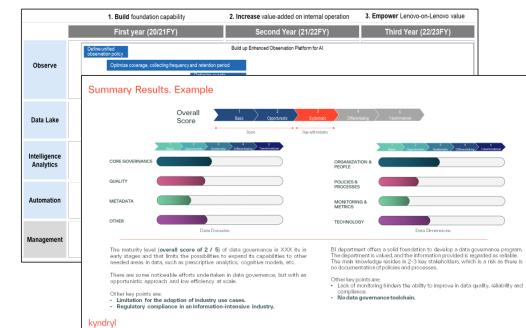
02 Workshops

- Workshops to engage with the Data Operations team for specific domains/BU's
- Structured approach to discuss the topics & gather information efficiently



03 Report & Plan

- Quantitative and qualitative analysis of all data domains and dimensions covered
- Baseline existing KPI's for data governance
- Data initiatives identification and prioritization



Data Estate Design Workshop

Approach:

Kyndryl Data Estate Design Workshop helps improve your data ecosystem by identifying the improvement opportunities and designing the right solution with Azure data components . We'll design your future proof data architecture after in-depth analysis of your business vision and data use cases that you plan to implement.

Customer Benefits:

- ✓ Improved data strategy to identify business insights and manage data compliance risks
- ✓ Identifying constraints in current data architecture for current and future data use cases
- ✓ Future-ready scalable and robust data architecture

Customer Pain Points

- Data-driven business innovation needs scalable and flexible data ecosystem
- The current data architecture struggles to support current needs
- Lack of advanced automation
- Lack of expertise to implement latest AI models and data services
- Difficult to scale

How Kyndryl Provides Solutions

01 Phases

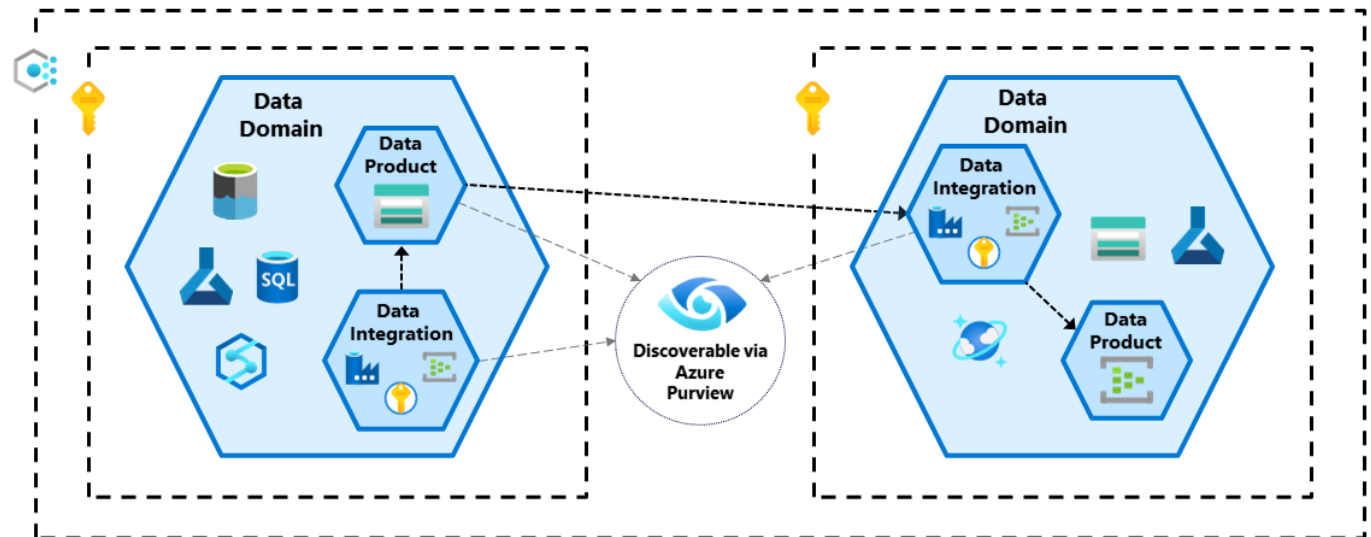
- Develop & Align Strategy & Vision
- Discuss Gaps in Current State
- Design Use Cases
- Improve Blueprints
- Propose Architecture

02 Architecture Review

- We review your data architecture to identify pain points and propose solutions

03 Design

- Define and design enterprise data fabric framework and Azure-based reference architecture
- Leverage pre-defined and tested migration patterns



Modernization of Data Lifecycle Pilot

Approach:

Discover a limited set of data sources, define/implement data governance policies, build an Azure-based data warehouse, migrate, operationalize and visualize the data

Customer Benefits:

- ✓ Quickly obtain meaningful insights & jumpstart adoption of Azure platform for data and analytics
- ✓ Create a solid foundation for rapidly expanding business insights, leveraging Synapse Analytics, Purview Governance and Power BI Dashboards & reports
- ✓ Leverage Azure-native monitoring and management services

Customer Pain Points

- Numerous reporting and Data Warehousing solutions
- Performance issues in Data Warehousing or Big Data
- SLA challenges due to high-demand nightly ETL
- Desire to reduce data lifecycle costs
- Executives or business stakeholders lack access to data insights
- Data governance not in company culture or is disrupting access...
- Data science is siloed and on workstations/desktop tools
- Legacy reports, emailed and viewed in excel

How Kyndryl Provides Solutions

01 Implement Purview

- Using Microsoft Purview, we register your Data Sources and Data Stores, and expose the Data Catalog to SME's (Data Owners)

02 ID Data Objects

- Data Engineers ingest data identified by SME's Apply data quality transforms and provide access to SME' Via Data Lake

03 Create Business Logic

- Using discovery zone we help you test insights, thoughts and refine business logic

04 Operationalize Data

- Using business logic identified by SME's, load data into Data Warehouse usually using incremental techniques

05 Build Visuals

- Using data in the Data Warehouse BI team develop insights and dashboards using operationalized data

06 Share Data

- Initially sharing data for self-BI using BI Data sets and then, if needed, externally with Azure Data Share

3-Stage Modernization Process

Due Diligence

- Perform initial assessment and due diligence
- Conduct workshops with Client stake holders

Pilot

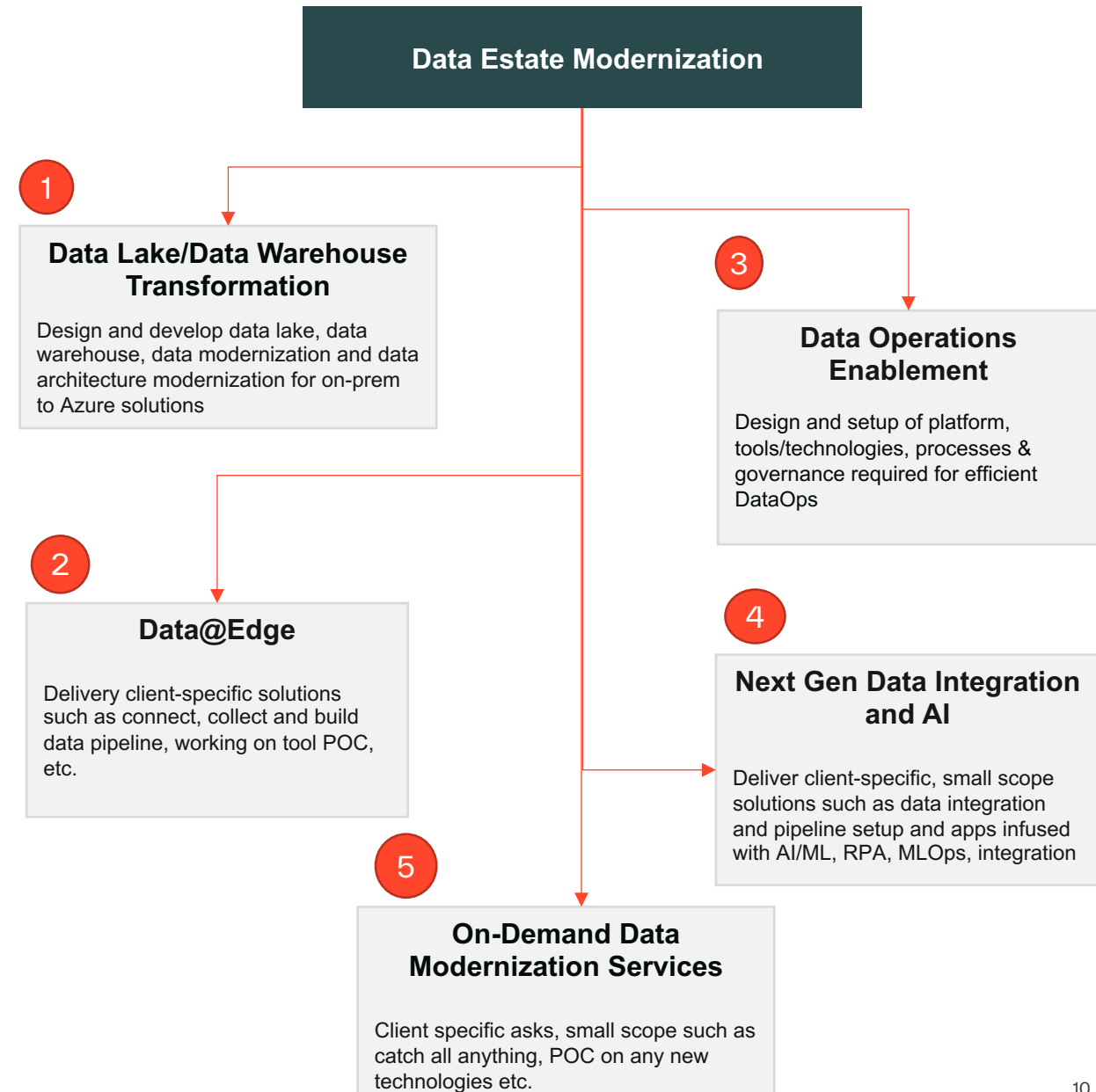
- Execute a pilot for thin slice of insights
- Refine the migration strategy and plan

Factory Execution

- Execute Waves to migrate Business Domains, Data Sets, Operational Data

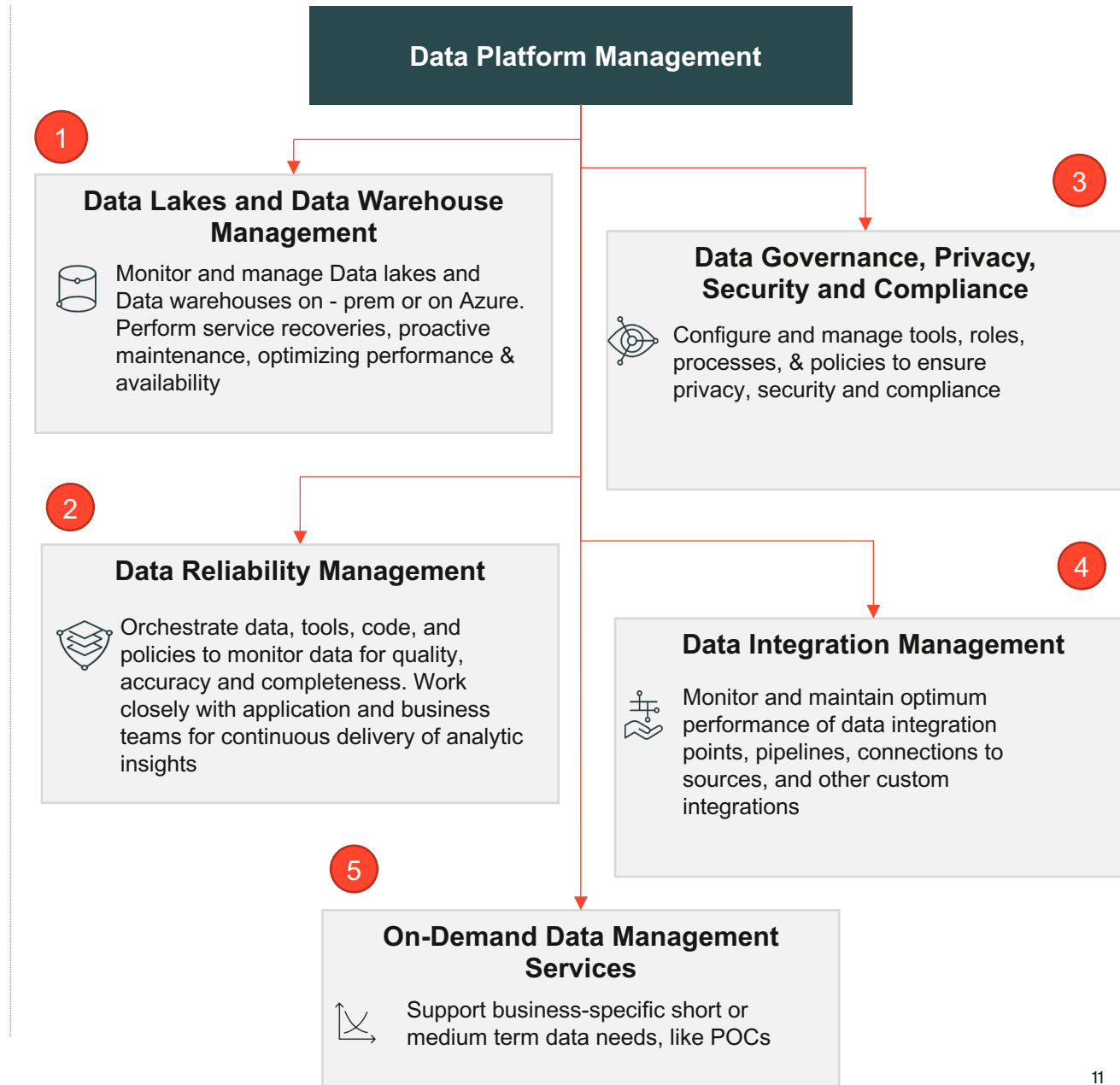
Data estate modernization services help clients:

- Create **data modernization strategies & roadmaps**
- Design and build **new data platforms** and services on Azure
- Design & build innovative **data-driven solutions**
- Migrate legacy data, data models and data-services to **modern data platforms**
- **Modernize data processing logic**, workflow and architecture

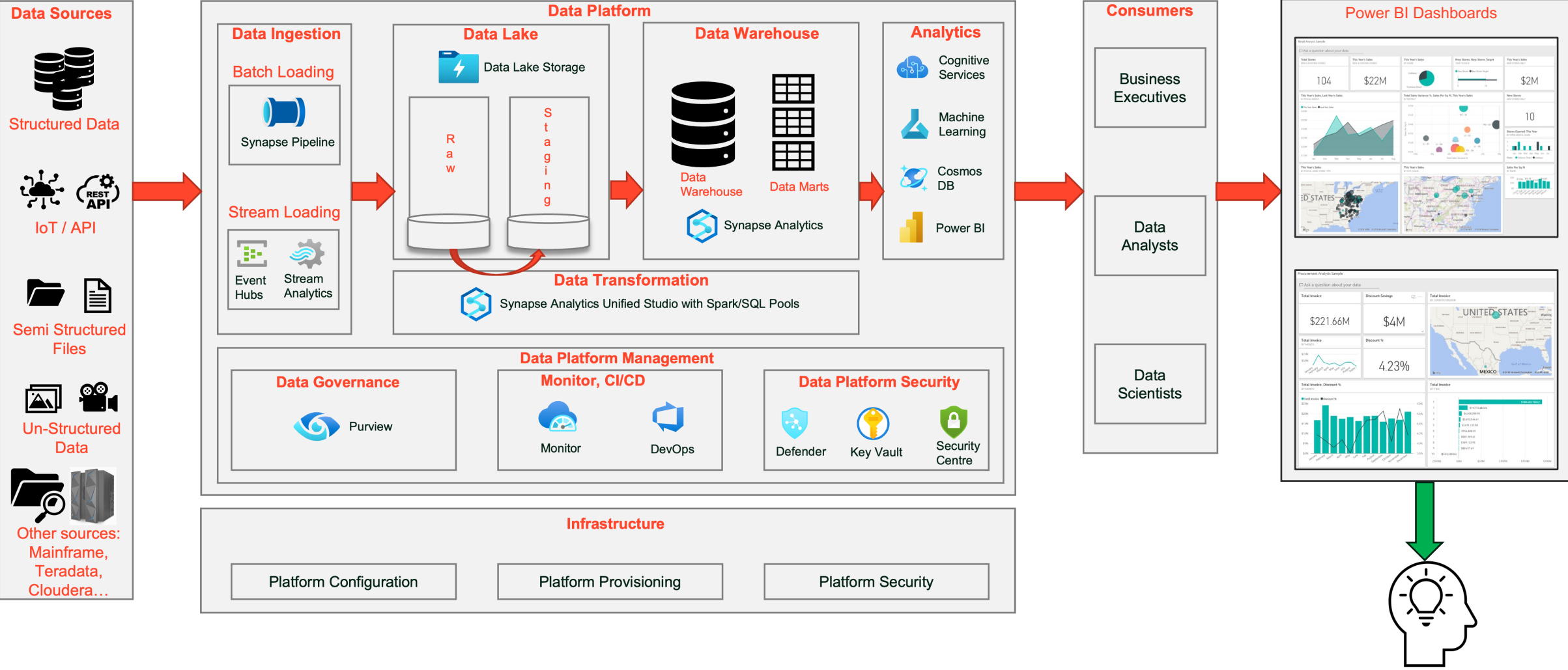


Data Ecosystem managed services help clients with end-to-end operations of their data platforms by:

- **Monitoring data infrastructure**, workflows, pipelines, sources, and end-points
- Managing unexpected behavior using **proven incident management flows**
- **Hardening data platforms** against exploits via industry-standard solutions
- Recording data/meta-data to ensure **accuracy, lineage, quality and consistency**



Kyndryl Data & AI Reference Architecture for End-to-End Data Estate Modernization



About Kyndryl

Kyndryl is a globally integrated technology and consulting company headquartered in New York, New York, with deep domain expertise, **30+ years of IT services eminence** and over **3,000 patents**.

Kyndryl is **the world's largest infrastructure implementation and IT managed services provider**.

With operations worldwide, Kyndryl attracts and retains some of the world's most talented people to provide **mission-critical solutions** for businesses, governments, and non-profits.

Through our **Strategic Alliances with Microsoft** and other partners, we deliver exponential outcomes for our joint customers.

kyndryl.



Kyndryl is a trusted partner for more than **4,000 customers** worldwide.



\$18B technology services company with **90,000 highly-skilled practitioners** worldwide.



We possess deep expertise in **complex IT environments, Intellectual Property (IP)**, and tools to drive continuous innovation at scale.

Data Estate Modernization, Governance, Analytics & AI

400+ Member team

Data Engineers, Data Architects, Analysts, Consultants

18 Patents

Data and AI space

200+ Certified professionals

Azure and Microsoft

50+ Data Scientists

and AI experts (Including Level 2 Certified)