EDW MODERNIZATION LEVERAGING INFOSYS DATA & AI ESTATE PLATFORM

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Business Imperatives

Enterprises are evolving to be connected, intelligent, sentient and have symbiotic relationship with all participants in the emerging digital ecosystem to deliver on imperatives like hyper-personalization, improved risk management and uncover newer revenue models in a continuously changing business landscape. Future enterprises will be built on a foundation of cloud native AI powered platforms and services that connect data to realize the vision of a connected ecosystem.

As enterprises embark on this digital transformation journey, managing Data @Scale is critical to enable enterprises to learn from data and network with an ecosystem of partners to adopt new business models. This will require enterprises to leverage AI across the data and AI engineering lifecycle to navigate from "High Touch" engineering process to a "Touch [Less]" process.

However, modernizing legacy landscapes is a complex problem to solve with complex legacy ecosystems with years of accumulated technology debt, ever evolving technology landscape drive up the cost of modernization initiatives resulting in eventual failure of the cloud business case.

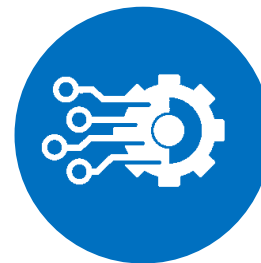## Infosys Data & AI Estate Platform

Our approach for modernization involves migration with optimization combined with establishing the digital data & AI foundation for enabling new capabilities. This enables reduction of technology debt while going through the modernization journey and also building the capabilities to drive business agility.

Infosys Data & AI Estate platform provides comprehensive set of assets to accelerate this modernization journey. The suite of assets includes solutions ranging from landscape assessment, intelligent rationalization recommendations, high degree of automation for migration and AI/ML embedded low code platforms catering to data engineering, data governance, data consumption, AI/ML engineering and data operations.
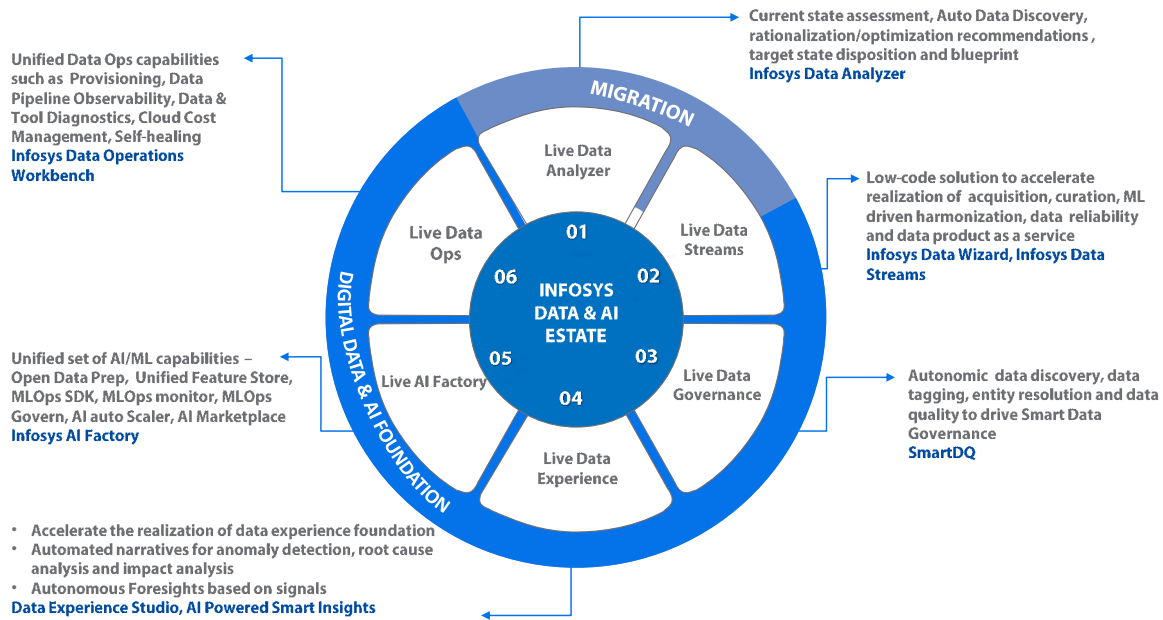
Migration with Optimization

- Landscape assessment
- Target state disposition
- Rationalization & Consolidation
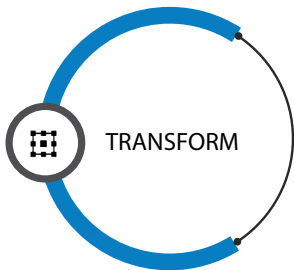- Data, ETL and BI migration

Establish Digital Data & AI Foundation

- Data Engineering Foundation – Metadata Driven, Cloud Agnostic, Any velocity, Embedded Intelligence
- Smart Governance Foundation – Unified Governance, Smart Data Discovery, ML based tagging & cleansing, Data Rights Management
- Data Experience Foundation – Report Catalog, Smart Narratives, Ask A Question, Persona driven Foresights
- ML Foundation – Data Prep, AI/MLOps, AI Marketplace, AI Feature Store, Scalablee AI
- Data Ops Foundation - Data Pipeline Observability, Data & Tool Diagnostics, Cloud Cost Management, Self-healing

Migration

Current state assessment, Auto Data Discovery, rationalization/optimization recommendations, target state disposition and blueprint
Infosys Data Analyzer

Low-code solution to accelerate realization of acquisition, curation, ML driven harmonization, data reliability and data product as a service
Infosys Data Wizard, Infosys Data Streams

Autonomic data discovery, data tagging, entity resolution and data quality to drive Smart Data Governance
SmartDQ

Unified Data Ops capabilities such as Provisioning, Data Pipeline Observability, Data & Tool Diagnostics, Cloud Cost Management, Self-healing
Infosys Data Operations Workbench

Unified set of AI/ML capabilities – Open Data Prep, Unified Feature Store, MLOps SDK, MLOps monitor, MLOps Govern, AI auto Scaler, AI Marketplace
Infosys AI Factory

- Accelerate the realization of data experience foundation
- Automated narratives for anomaly detection, root cause analysis and impact analysis
- Autonomous Foresights based on signals
Data Experience Studio, AI Powered Smart Insights

The solution suite is backed by our Autonomous Data & AI Estate management services that manage client's estate efficiently to minimize business disruption but also govern and optimize them to reduce the cost of operations which can drive self-funded modernization
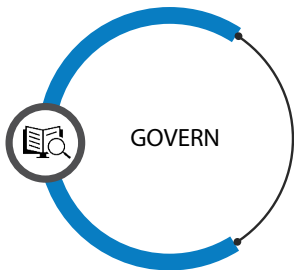
SERVICES

TRANSFORM

Data Engineering & Modernization Services
Migration Services | Autonomous Data & AI Engineering | Autonomous Unified Governance | Autonomous Consumption | Autonomous Operations

AI/ML Engineering
AI/ML Automation / SDK | AI/ML Engineering & Augmentation Services | Marketplace Services | Model Management & Governance
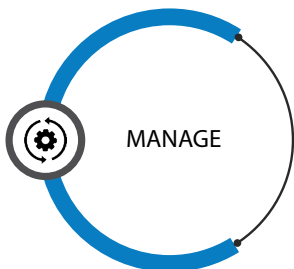
GOVERN

Optimization and Rationalization
Workload Profiling | Compute and Storage Optimization | Consumption Optimization | Landscape Assessment | Rationalization | Consolidation

Cost Management
Cost Optimization | Metering | Chargebacks

MANAGE

Platform/Tooling Services
Environment Management | License Management | Subscription Management | Tooling Management | Security Management | IT Service Management | Platform Engineering | Automation | Governance

Application Support Services
Application Monitoring | Pipeline Monitoring | Model Monitoring | Break-fix | IT Service Management | Performance Engineering | Automation | Governance

Data & Analytics Operations
DevSecOps | DataOps | MLOps

Leveraging GCPs BigQuery cloud warehouse and the surround ecosystem of scalable data and AI services, the offering accelerates digital transformation across industry segments

GCP capabilities

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Infosys Data & AI Estate Platform

- Accelerated business outcomes
- Increased cloud adoption
- Committed TCO reduction
- Self-funded modernization
- Simplified operations across a hybrid landscape
- Lower vendor management overheads

Success Stories

Petabyte scale Data management platform for a global bank

- Multi-year, global engagement with 350+ Google cloud resources from Infosys engaged in delivering a petabyte scale (200PB+)Data Management platform, consolidating data from 3000+ applications for a large global bank.

- This solution reduced data migration time by over 75% and decreased its daily liquidity reporting time by over 80%.

- Bank can now calculate liquidity position across billons of transactions across 30+ countries in ~3hrs, allowing the bank to respond to situations (both crisis and opportunity) much more quickly.

- Platform also enabled ML based inspection of the data from the banking behaviour of more than 38 million customers, to generate more growth opportunities.

Enterprise Analytics Platform for a leading fashion retailer

- Managing Enterprise analytics platform with over 7600 jobs and 7400 reports to expedite business value delivery with advanced analytics across all business domains

- Infosys solutions assets leveraged to accelerate modernization from legacy stack to GCP

- Built a scalable data engineering framework for support 1 TB of data, 95.3 billion records on a daily basis

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For more information, contact askus@infosys.com

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