

Streamline and simplify your data modernization and migration process

Revamping the data and analytics landscape
with HCLTech's one-stop solution

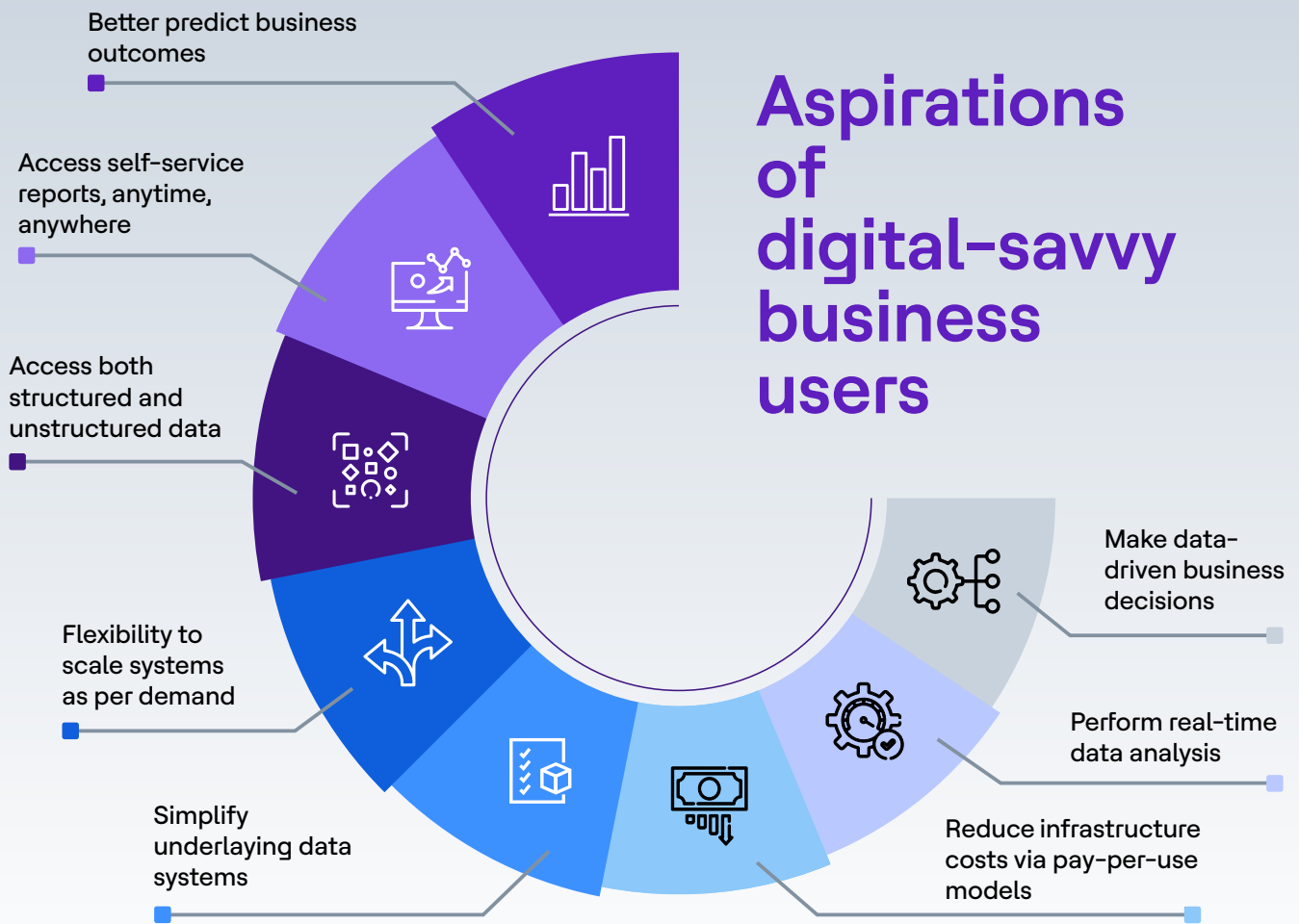


Data modernization has become imperative for forward-looking enterprises.

With increasing reliance on automated IT infrastructures, businesses are continually looking to leverage digital technologies to conduct real-time analysis of the available customer data and make intelligent, data-driven business decisions. By increasingly adopting data and analytics systems to derive actionable insights from structured and unstructured data, enterprises are eager to understand evolving customer behaviors to improve the prediction of business outcomes.

With the growing need to reduce infrastructure costs and access flexibility and elasticity to scale the IT systems, data modernization initiatives can prove to be a game changer for enterprises. It can help streamline existing operations, respond effectively to changing market landscape, provide personalized services and even generate new revenue streams.





To overcome challenges of an increasingly complex data landscape.

The key challenges that businesses are attempting to address through data modernization are:

Data gravity

In the previous decade, the data sources were mostly confined to structured data from within the enterprise applications. As source applications have evolved, data complexity has increased multi-fold, calling for migration from traditional and expensive data storage platforms to a modern, real-time Cloud-based data analysis platform that can handle data from legacy applications as well as newer data like IoT Data, Logs, streaming data and other complexities.

ETL/ELT and custom SQL scripts

Over the last several years, organizations have employed myriad ETL/ELT tools and custom scripts for traditional on-premise data processing that cannot cater to d data velocity and scalability needed to become a truly digital organization.

BI reporting and dashboards

The reporting tools in the past were predominantly used for sharing and publishing data. As organizations procured multiple BI tools resulting in scattered & non-contextual analytics, there's a pressing need of new tools with improved visualization capabilities, story-telling, and self-service functionalities.

Complex data migration

Critical real time data platforms – EAP

Regulator dependent data

Varied data technology for single entity – Cases where a single application uses: Oracle, DB2, COBOL ETL, Informatica ETLs

Security

On-prem to cloud security

Security guardrails for data consumption

Granular monitoring of lineage

Culture shift

Reluctance in adapting changed persona experience

Adoption federated data culture

Self-service consumption and publishing models adoption
Ownership of data quality

Data management

Data sharing with internal and external entities

Data governance- self-service vs. data lineage

On-prem to cloud networks

Legacy technology conversion

Migration and conversion of legacy estate

Outdated niche technologies conversion
Eg: Hadoop

Key challenges driving large scale migration

HCLTech has tools and frameworks to accelerate the journey to Cloud

One of the key challenges in migration is to discover, analyze, and plan the execution. Our framework automates this process using a Migration Analyzer and Planner (MAP) framework

MAP Framework



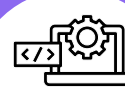
Schedule

The system will generate a program/project schedule for the approved recommendations. Again, it will go for approvals and/or corrections



Recommend

This is where the system recommends the treatment and send out for approval. The approval process can approve the recommendation or change it. The system will learn from this human interaction & adjust itself for future recommendations



Crawl

This is for the automation of the discovery process. Looking into metadata, logs, consumption etc. to create the knowledgebase



Analyze

This is for finding similarity, dissimilarity and categorization in the data collected in the Crawl step. The system supports human intervention to fine-tune the categorization/distribution

Introducing ADvantage Migrate

HCLTech's ADvantage Migrate is a one-stop solution that helps enterprises modernize their entire data and analytics landscape. The solution assists in unified analytics and governance, amplified human output, and faster business outcomes by leveraging the following key components:

1

Our experience and expertise in data engineering, and cloud along with our proprietary methodologies and architecture principles to embed standardization in the modernization process.

2

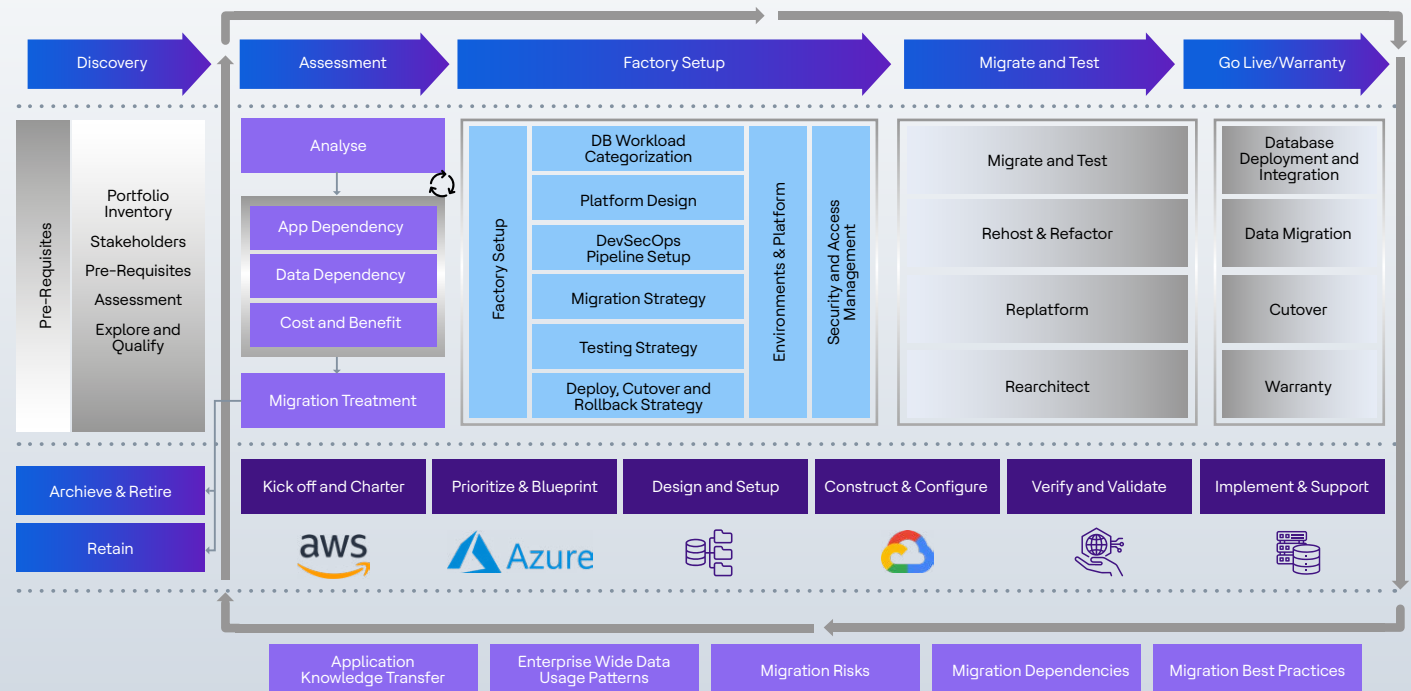
Our three-step automation process with pre-engineered products, which includes:

1. Gateway Suite: Transforming the way we implement data and analytics Modernization programs by embedding automation in the conversion/migration process. It can auto-discover, analyze and convert legacy ETL/ELT, BI and DB objects to modern platforms.

2. Sketch: Modernize the data pipelines and migrate data using platform-agnostic configuration driven data processing.

3. Gatekeeper: Achieve zero-touch automated data reconciliation and continuous testing post-migration.

ADvantage Migrate for data- The migration factory for cloudification/ modernization



Program Management and Governance

Key use cases

The ADvantage Migrate solution accounts for the following use cases in modernizing the data and analytics landscape:

Data platform modernization:

Modernize or change data platform technology with no change in application.

Cloudification: Minimize cost and reduce complexity by migrating to a consumable and steady system.

ETL/ELT Modernization:

Modernize data processing (ETL/ELT) tools and technologies.

Reporting and analytics modernization: Modernize BI reporting and dashboards tools and technologies.

Migration to commercial industry products:

Make data available from a modern system to provide both speed and value.



Business benefits

HCLTech's Data Modernization solution helps businesses leverage a range of benefits:

1

Reduce overall migration effort from legacy platforms to cloud data services up to 40%

2

Improve time-to-market for data lake and data warehouse platform migration to Snowflake by 60%

3

Avail our configurable and reusable components library

4

Optimize the IT infrastructure to increase utilization and efficiency by moving from CAPEX to OPEX

5

Leverage unified analytics and governance, and amplified human output for a 30-70% increase in business ops

6

Migrate to cloud platform to ensure agility, flexibility, and scalability along with reduced IT support associated costs

7

Address a variety of analytical or advanced analytical use cases by leveraging heterogeneous computing systems and storage platforms

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HCLTech is a global technology company, home to 219,000+ people across 54 countries, delivering industry-leading capabilities centered around digital, engineering and cloud, powered by a broad portfolio of technology services and products. We work with clients across all major verticals, providing industry solutions for Financial Services, Manufacturing, Life Sciences and Healthcare, Technology and Services, Telecom and Media, Retail and CPG, and Public Services. Consolidated revenues as of 12 months ending September 2022 totaled \$12.1 billion. To learn how we can supercharge progress for you, visit hcltech.com.

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