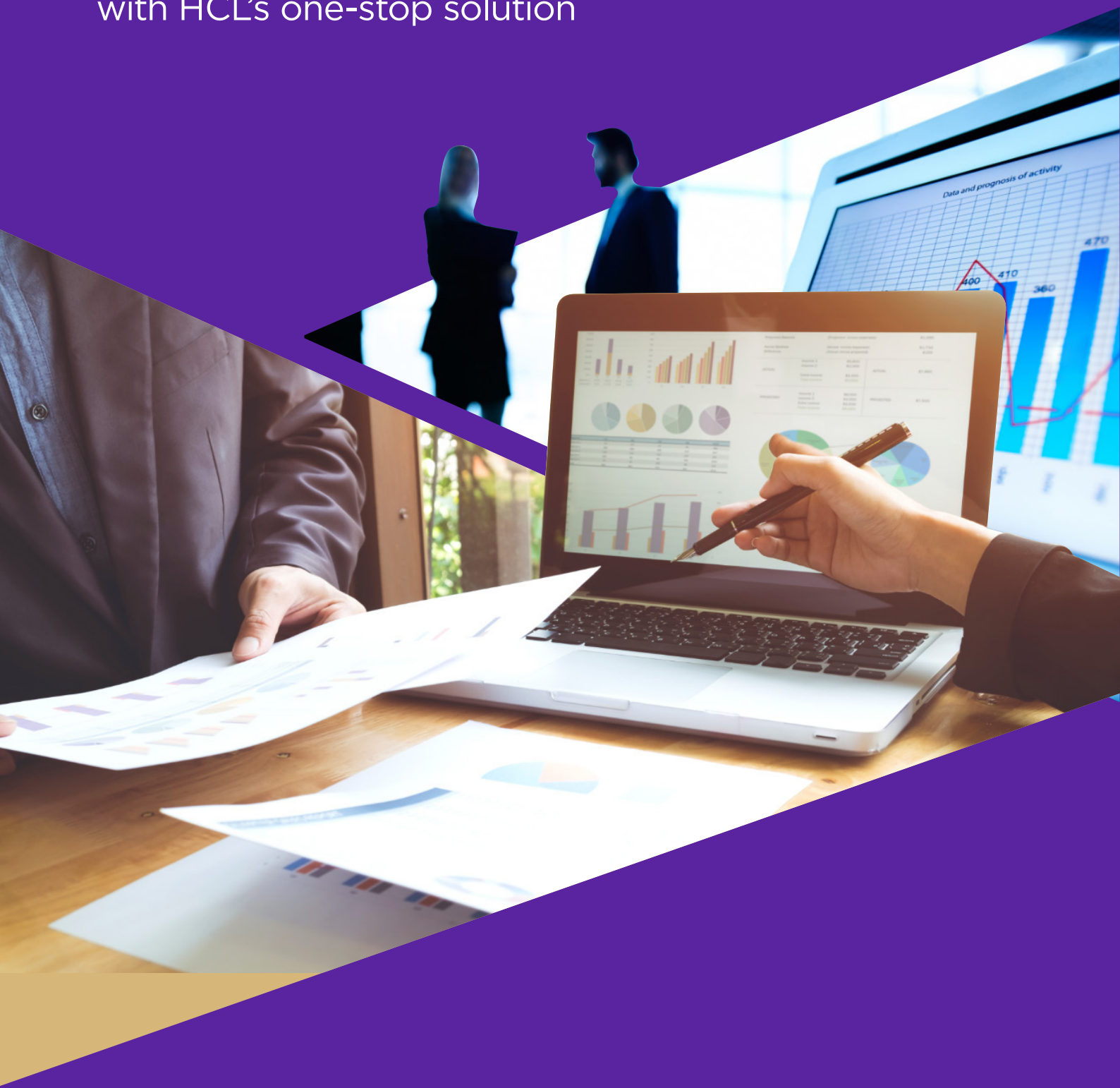


# Data Modernization and Migration

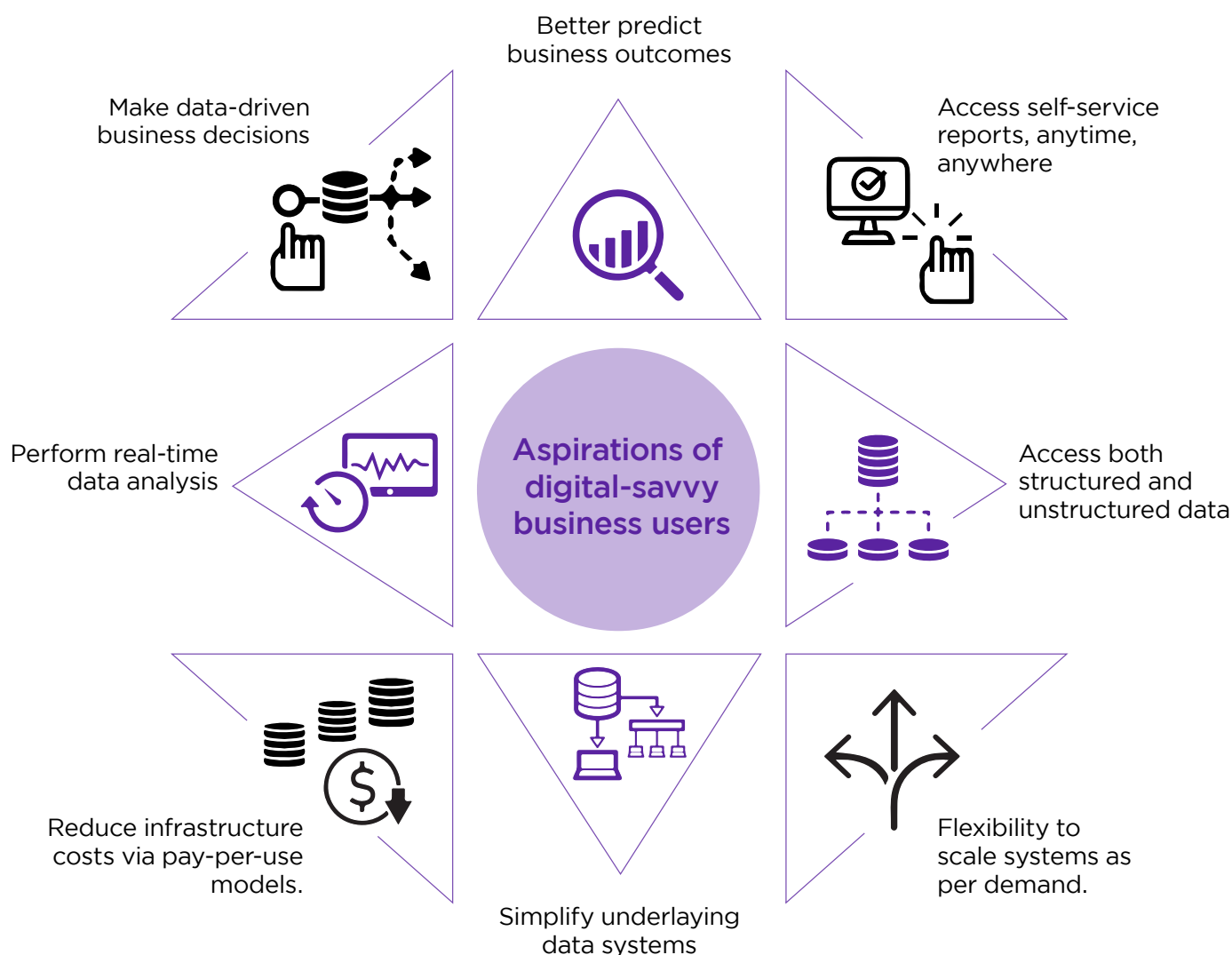
Revamping the data and analytics landscape  
with HCL's one-stop solution



# 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 :

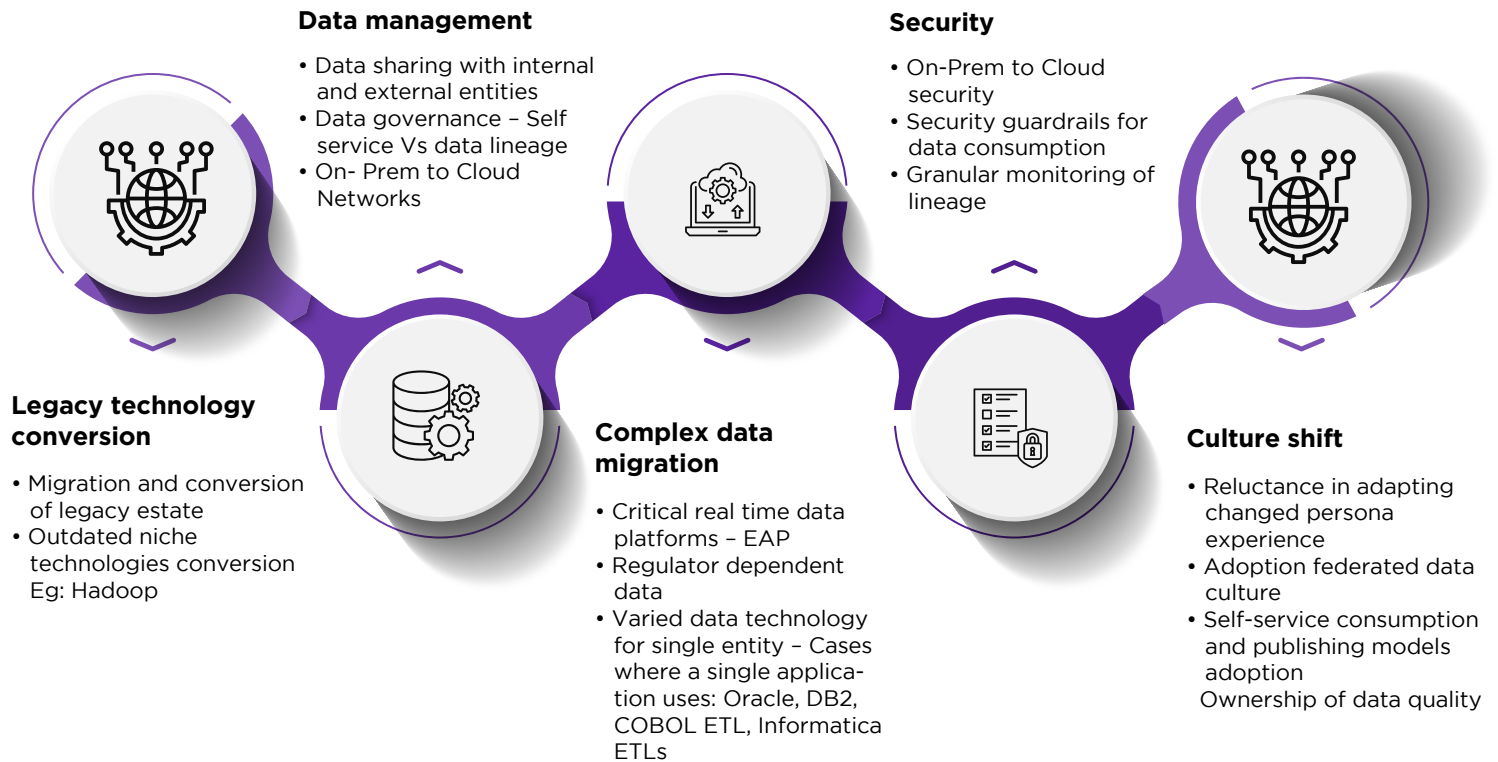
Over the last several years, organizations have employed myriad ETL/ELT tools and custom scripts for traditional on-premise data processing that cannot cater to varied data formats, increased data velocity and scalability needed to become a truly digital organization.



## 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.

# Key challenges driving large scale migration

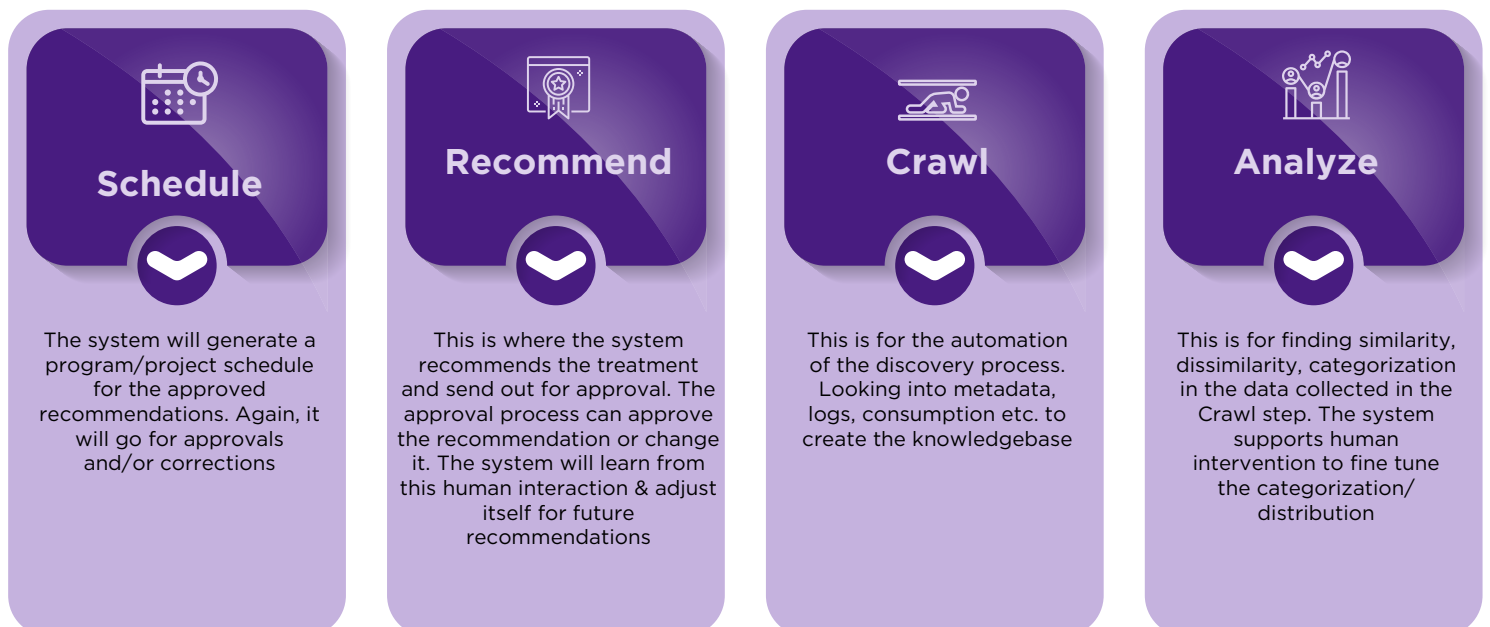


## HCL has tools and frameworks to accelerate the journey to Cloud

**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



# Introducing ADvantage Migrate

HCL'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

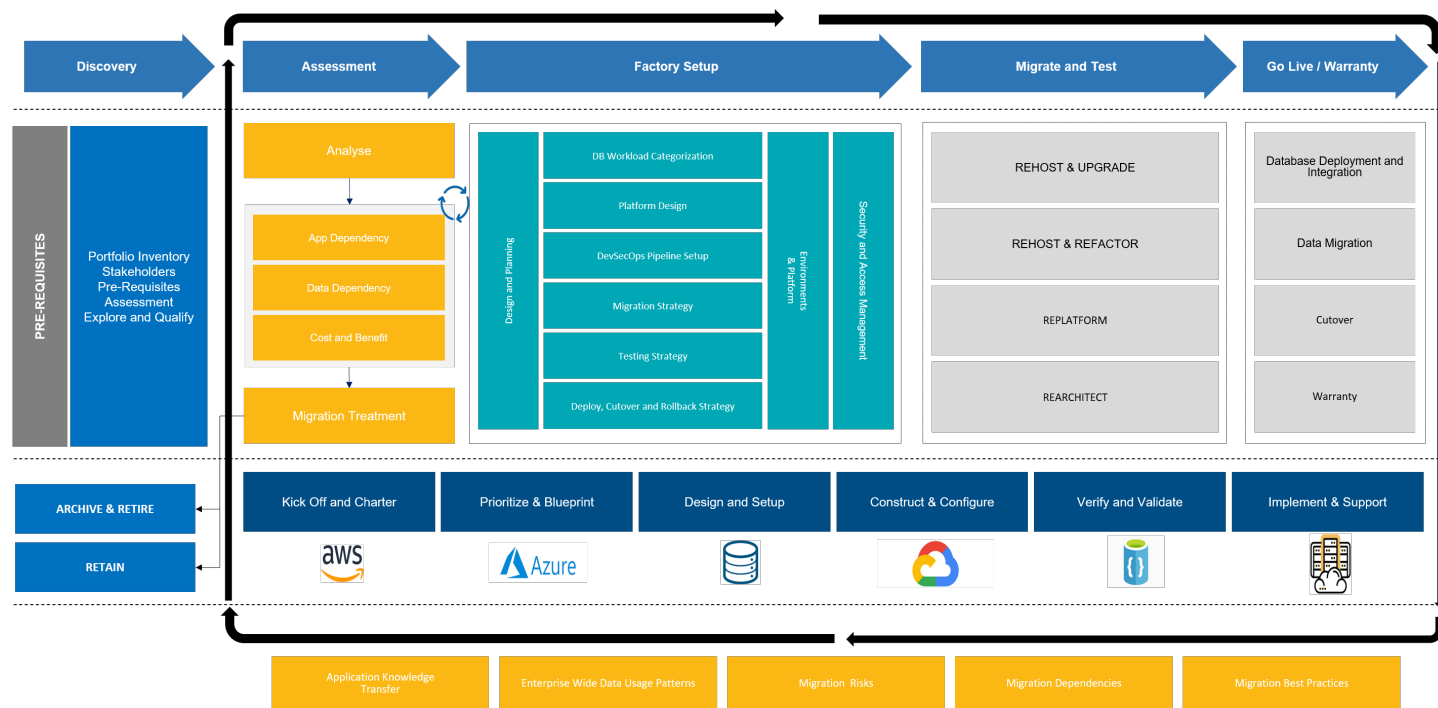
Our three-step automation process with pre-engineered products, which includes:

**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

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

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

## ADvantage Migrate for Data – The Migration Factory for Cloudification/Modernization





# 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 & Technologies.



**Reporting and Analytics Modernization:** Modernize BI Reporting & Dashboards Tools & Technologies.



**Migration to commercial industry products:** Make data available from a modern system to provide both speed and value..

## Business benefits

HCL'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



For any queries, please reach out to us at [digitaltransformation@hcl.com](mailto:digitaltransformation@hcl.com)



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