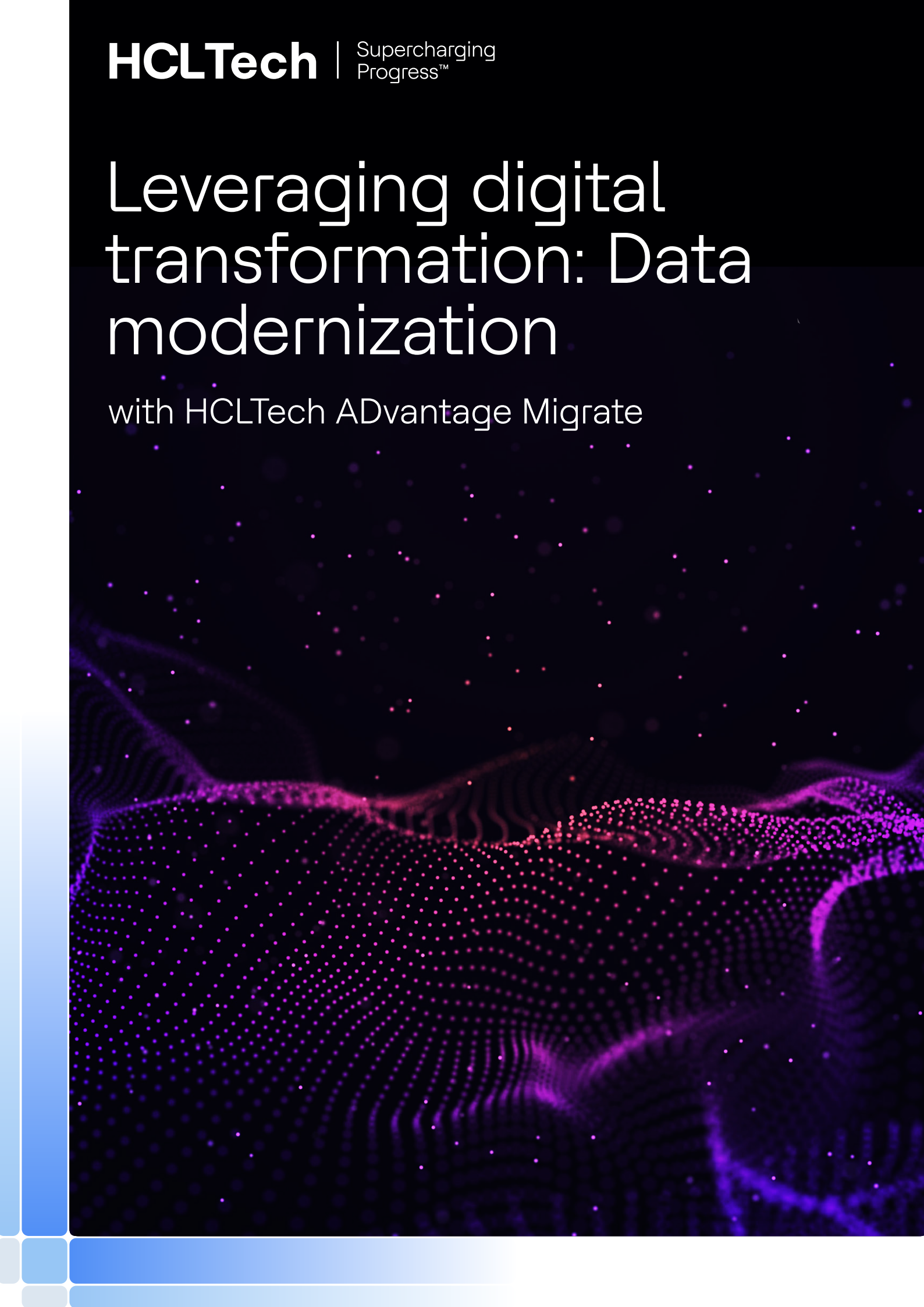# HCLTech | Supercharging Progress™

# Leveraging digital transformation: Data modernization

with HCLTech ADvantage Migrate

# Introduction

In today's fast-past world, there is a growing demand to expedite modernization through software and platform-driven solutions. To extract maximum insights from data generated across the enterprise, data-platform modernization is crucial. Introducing HCLTech ADvantage Migrate, presenting an all- encompassing solution for enterprises seeking to modernize their data and analytics landscape and to deal with the challenges encountered while migrating from data storage platform to a modern, real-time data analytics platform. By leveraging HCLTech ADvantage Migrate, organizations can unlock a multitude of benefits and drive significant advancements in their data-driven operations.

# Benefits

### 1.
**Effort reduction:**

Reduce migration effort by 40%

### 2.
**Improved Time-to-Market:**

Expedite migration with enhance time-to-market by 60%

### 3.
**Amplified human output:**

Leverage unified analytics and governance for 30-70% amplified business operations

### 4.
**Cloudification:**

Seamless migration to Cloud platforms, offering agility, flexibility, scalability, and reduced IT support costs

### 5.
**CAPEX to OPEX:**

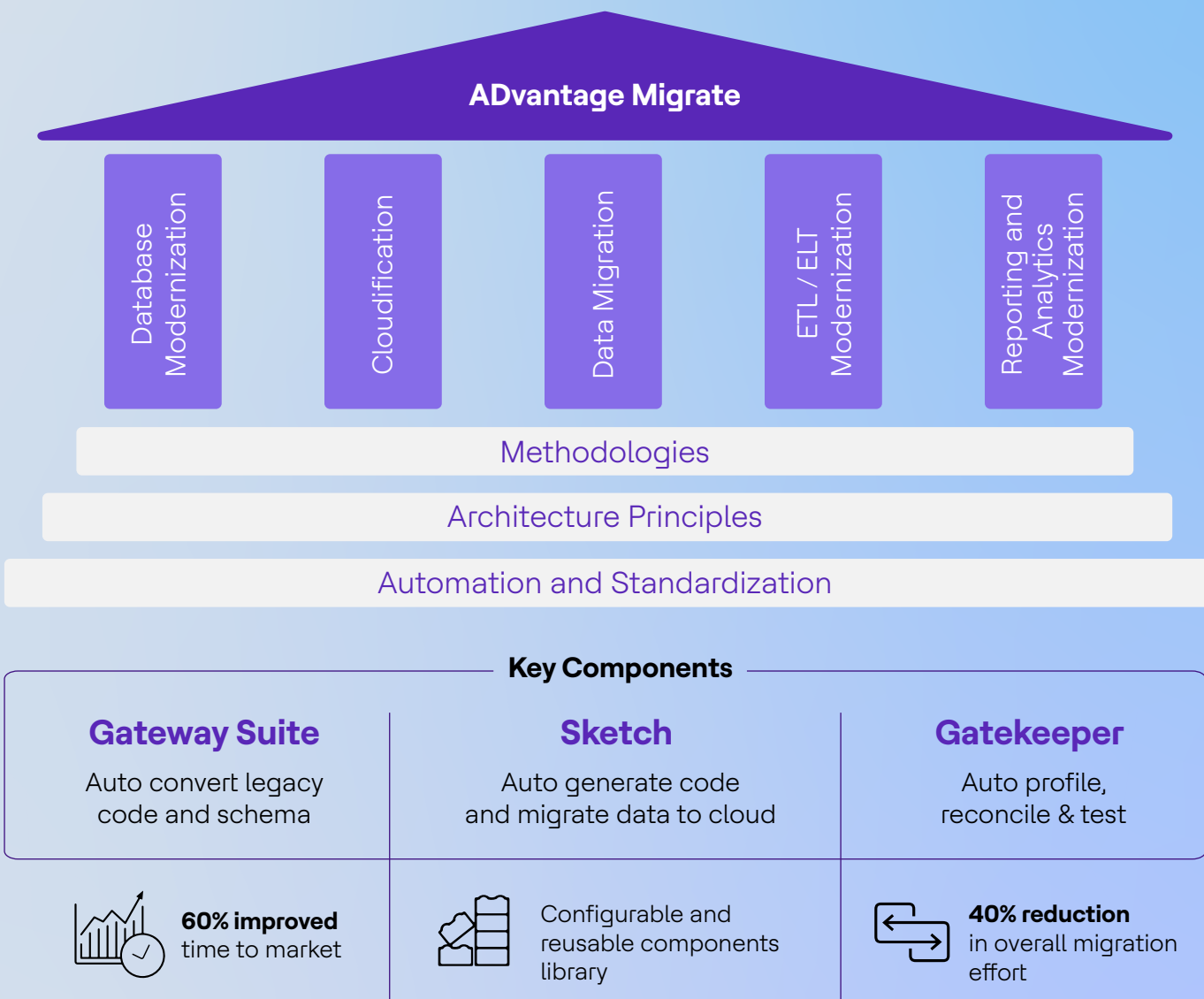Shift from CAPEX to OPEX to optimize IT infrastructure and boost utilization and efficiency

### 6.
**Addressing diverse use cases:**

Address analytical and advanced analytical use case with diverse computing systems and storage platforms

# Explore ADvantage Migrate

HCLTech ADvantage Migrate is a comprehensive solution that enables enterprises to revamp their complete data and analytics landscape. It offers a technology agnostic approach, combining our expert services, established methodologies and robust tools for data assessment, migration, and validation. This service facilitates the swift and cost-effective modernization of data and analytics ecosystem to the cloud, while ensuring full compliance with all regulatory requirements.

## ADvantage Migrate

| Database Modernization | Cloudification | Data Migration | ETL / ELT Modernization | Reporting and Analytics Modernization |
| --- | --- | --- | --- | --- |

**Methodologies**

**Architecture Principles**

**Automation and Standardization**

## Key Components

| Gateway Suite | Sketch | Gatekeeper |
| --- | --- | --- |
| Auto convert legacy code and schema | Auto generate code and migrate data to cloud | Auto profile, reconcile & test |
| **60% improved** time to market | Configurable and reusable components library | **40% reduction** in overall migration effort |

Comprising of three essential components – **Gateway Suite, Sketch, and Gatekeeper** – HCLTech ADvantage Migrate ensures a comprehensive and successful data modernization process.

**Gateway Suite** A web-based application deployed on cloud is designed to automatically scan source and target tables, transformation rules and related metadata. It extracts logic from existing extract-transform-load (ETL) or data pipeline jobs and catalogs the ETL jobs based on the associated source and target tables. It also does the conversion from legacy database scripts to modern data warehouses. Reduces current state exploration effort by 75% and decreases build cycle time by 30%.

**Sketch:** A web-based, rapid-data, pipeline-development and deployment application runs on top of Apache Spark, deployed on cloud highly compatible with Databricks , AWS , Azure - accelerates data availability and accessibility. It provides different types of Sketch recipes to capture, curate, prepare, and distribute data with pre-built data-pipeline patterns covering around 80% data-pipeline requirements. It is based on configuration with a rich standard functional library to support most of scenarios.

**Gatekeeper:** A web-based application deployed on cloud for automated data testing. Achieve zero touch automated data reconciliation and continuous testing post-migration. Gatekeeper offers extensive coverage of testing scenarios.

Unlock the full potential of their data and drive transformational outcomes by leveraging advanced analytics, improving operational efficiency, and gaining valuable insights into their business operations.

## Timeline and Scope

The timelines for the project will depend on the scope of work, encompassing a comprehensive set of tasks and objectives. The scope includes (but not limited to) the following key areas:

**Data validation:**
- Implementing pipeline-based validation, including schema and metadata checks.
- Verifying code base integrity.
- Conducting pre and post data processing validation.

**Assessment of existing data landscape:**
- Conducting lineage dependency analysis.
- Providing targeted recommendations based on assessment findings.
- Performing capacity planning.

**Execution:**
- Creating an executable package with cloud-native orchestrators.
- Enabling parallel execution for efficient processing.
- Supporting continuous integration/continuous delivery (CI/CD) and providing transition assistance.

**Data transformation:**
- Modifying DML, DDL, procedures, ETL, jobs, & reports.
- Packaging transformations using cloud-native wrappers.
- Ensuring repeatability and extendibility of the transformation process.

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# Legacy technologies supported for modernization

HCLTech ADvantage Migrate is designed to be technology-agnostic, allowing seamless modernization of various platforms. Below is an illustrative list of supported legacy technologies:

> Oracle Exadata | Teradata | IBM Data Stage | IBM Netezza
>
> IBM DB2 | Hadoop | Informatica | IBM Cognos | Oracle BI
>
> SAP Business Objects

# Databricks X HCLTech

The strategic partnership between Databricks and HCLTech offers several advantages, empowering businesses to unlock the full potential of their data. These advantages include:

**Low upfront investment:**

Achieve agile, scalable, and actionable insights without requiring a significant upfront investment.

**Speed up time to value:**

Through this integration businesses can accelerate their time to value. Databricks-Deployment and Pre-Built Solution streamline the implementation process, enabling organizations to quickly deploy and start deriving insights from their data.

**Leverage utility domain expertise:**

The partnership leverages HCLTech's deep domain expertise, offering businesses access to specialized knowledge and insights in various industries.

**Analytics development and support:**

Businesses can leverage HCLTech's extensive experience in analytics to drive the development of advanced models and algorithms. Additionally, ongoing support ensures that businesses can optimize their analytics capabilities and address any challenges that arise.

# Empowering data-driven success with HCLTech ADvantage Migrate and Databricks

In a data-centric business landscape, enterprises are often impeded by isolated data systems and intricate migration processes. Addressing these hurdles, HCLTech ADvantage Migrate and Databricks foster a seamless transformation journey, bridging the gap between traditional data systems and cutting-edge analytics platforms.



As a result, enterprises can pivot from isolated to integrated, from complex to simple, and from capital-intensive to cost-effective operations. In essence, the synergistic alliance of HCLTech ADvantage Migrate and Databricks is more than a solution, it is a catalyst for fostering a culture of innovation and data-driven decision making in the modern enterprise landscape.

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