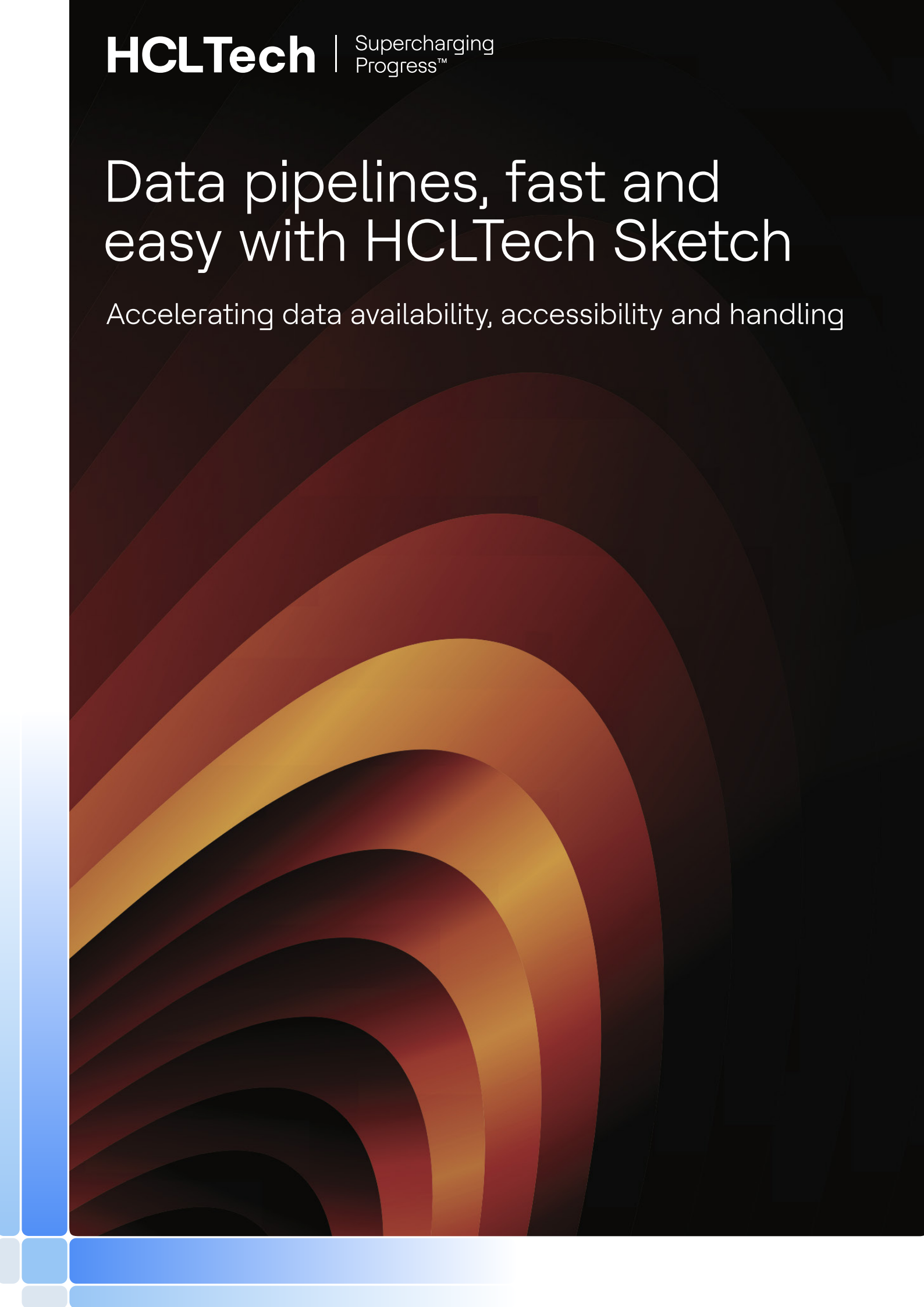# Data pipelines, fast and easy with HCLTech Sketch

Accelerating data availability, accessibility and handling

1

The need for rapid data development and deployment framework

Rapid growth of diverse data in enterprises has created a need for ever increasing agile data management approaches. The traditional data warehouse model is inadequate to meet the demands of modern enterprises because it is typically time-consuming and cost-intensive to develop, maintain, deploy, and update. Rapid data development and deployment frameworks provide enterprises with a much more agile approach to their evolving data management needs.

2

Agile software development

Software developers need to be able to deliver new features faster than ever. This requires an agile approach to development that allows them to move quickly from one version of the software to another without spending time on maintenance or deployment activities.

3

Big data analytics

Big data analytics has become an important part of many business strategies. Businesses are looking for ways to gain insights into their customers' behaviors and preferences to deliver better products and services. A rapid development framework can help quickly deliver these insights so that businesses can take advantage of them faster.

4

Streamlining data and analytics architecture

The speed with which you can implement data-driven insights into your business processes can be the deciding factor between success and failure— Old frameworks could take weeks or months to deploy, which is far too long in the current competitive landscape.

The data landscape is becoming more complex with every passing day. The proliferation of new data sources and formats has increased exponentially, and organizations find it difficult to streamline the data architecture to seamlessly derive insights from new data sources, thereby unable to take advantage of all the available data. Sketch enables seamless consolidation of data across multiple data sources simplifying data landscape and increasing efficiency. This also enables automated real-time data ingestion capability to drive analytics.

From raw to ready in no time: Introducing HCLTech Sketch

Sketch framework has readily available data pipelines to address most of the above-mentioned processing requirements. In addition, Sketch data pipelines have an in-built error and audit capture mechanism to trace sequences or errors as needed. Besides the functional goal, each pipeline is tuned to address high -performance requirements by inherently implementing a parallel processing paradigm.

Empowering organizations to implement ETL flows in the most effective, efficient, and rapid manner. Sketch provides a rapid "data pipeline" development and deployment framework to accelerate data availability and accessibility. This helps to reduce time to market, thereby reducing cost and increasing the ROI of digital transformation investment.

Sketch rapid data pipeline

Establish a next-gen integrated data lake for accelerated data ingestion, harmonization, and enable visualization of the raw data on a centralized data platform

Sandbox environments enable data discovery and advanced preliminary analytics

The transformation library consists of reusable data transformation functions

Data catalog provides business users homogeneous access to data sets

1. Data capture

Ingests data from multiple sources (file, databases, streams) into a raw layer

Business-driven decisions

HCLTech Sketch framework solution for data integration to manage digital data from multiple sources, including websites, mobile applications, and business applications.

Our solution has been deployed across multiple client's landscape and has successfully integrated various data sources, Digital Asset Management Systems (DAM), digital stores, and other third-party datasets. Here are the key features of this solution offering:

2. Data curate

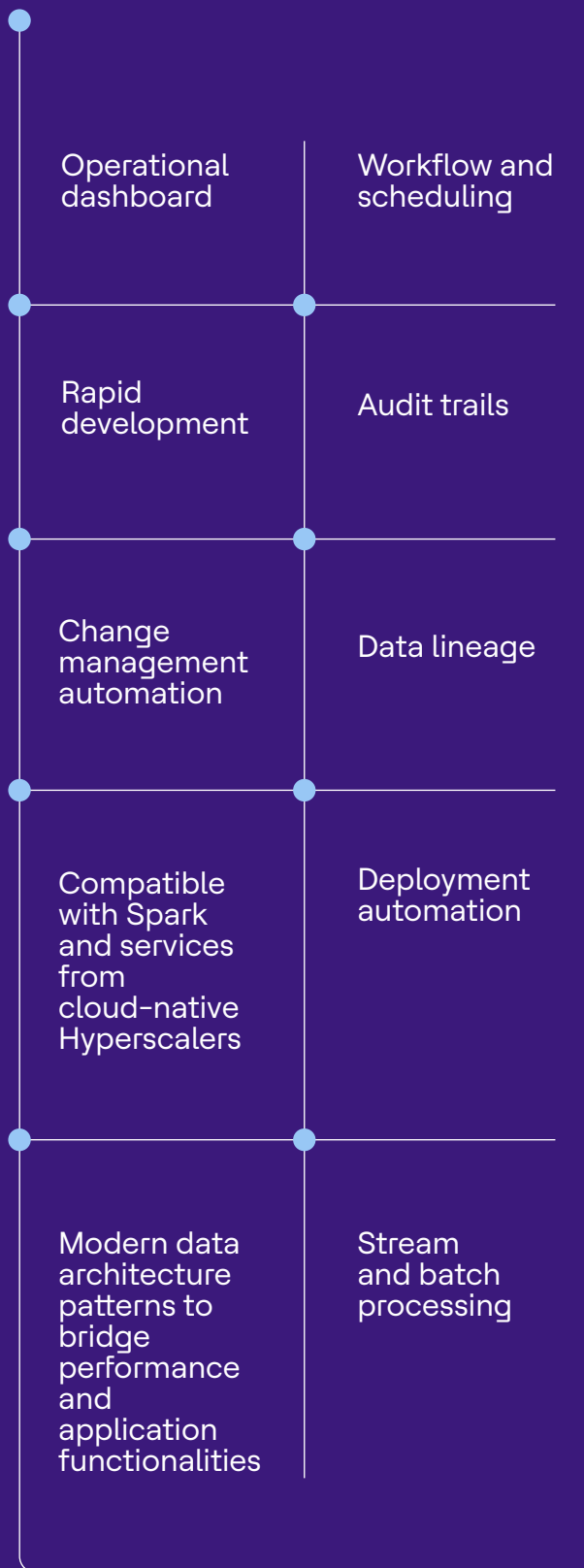Validates and cleanses source data and put it into the staging layer. Also removes technical inconsistencies and applies predefined business rules

3. Data prepare

Applies logic and prepare data according to a target data model and stores it in the final layer

4. Data distribute

Distributes data to target systems

5. Utility

Supports error handling, logging, special character handling, and keygeneration

Sketch framework features

Features

Operational dashboard	Workflow and scheduling
Rapid development	Audit trails
Change management automation	Data lineage
Compatible with Spark and services from cloud-native Hyperscalers	Deployment automation
Modern data architecture patterns to bridge performance and application functionalities	Stream and batch processing

Results and benefits

Operational data store for downstream requirements and cost-saving on reading/writing operation

On-demand provisioning further reduces infrastructure and license cost

70% standard ETL pipeline prebuilt

Flexibility to add customization/ enhancements specific to customer needs

Deployment automation delivered

40% reduction in an overall development effort

HCLTech | Supercharging Progress™