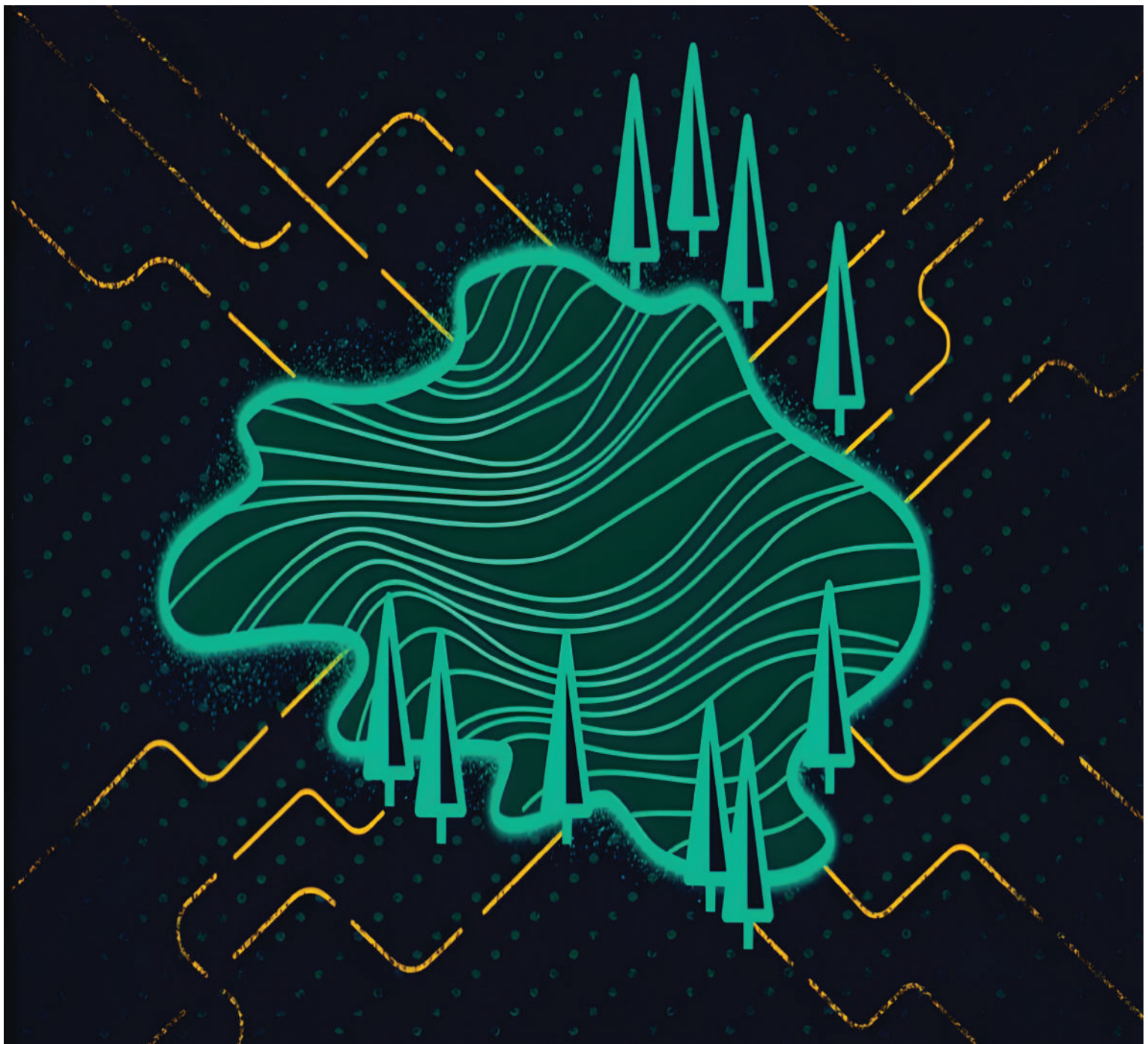# LTS
Data Lake

Release the power of giant data with the LTS Data Lake to unfasten the value of real-time structured and unstructured information.

LTS Data Lake

In recent times, we are residing in a rapid-moving digitally-linked world where information or data is at the heart of everything we perform. Clarifying a sizable amount of data immediately to deliver real business benefits indicates that banks need robust giant data and advanced analytic capabilities to engage with the analytically driven up-to-date market tendency. Client expectations are much bigger in recent times, powered by experiences across financial and non-financial services. The issues that bank faces at the current time, is with the ingestion, blending, cleansing, and optimization of their information in no time to give both insight and efficiencies back to the business.

Several banks are aiming to create internal data lakes to resolve the problems that take time, are very expensive, and come with the maximum failure rate. Unsealing the value of their data is the solution to delivering more personalized client involvement, upgraded fraud detection and, risk reduction.

LTS Data Lake is an upcoming modern data management product constructed as a foundation platform for LTS Analytics to help banks manage and future-proof their abilities in the constantly changing landscape of data and analytics.

Solution Overview

LTS Data Lake can harness directly, structured and unstructured data as well as curate, ingest and blend a huge amounts of data at scale. With LTS data lake banks can now apply a single, governed data hub for their downstream system, be it analytics, AML, AI, LTS Analytics, or LTS reporting.

This permits banks to be able to pile and process all the data or information they required to get the smarter application from a single source, and get great performance at a very low TCO, as averse to constructing data lakes in-house with big-development and integration risks that comes with. Banks can also power AI-based applications to provide tailored recommendations to every client and put forward contextualize guidance.

◆ A robust productized data lake combines a large amount of data and analytic potentialities into its banking software products.

◆ Conveys out-of-the-box combinations, preparation, and optimization to provide AI-based banking applications, involving pre-existing integration with LTS transact and LTS infinity.

◆ Assists with numerous underlying database and processing platforms, including Apache Hadoop, Apache Spark, and cloud-related platform services.

◆ Deployable as a company's data lakes or as a point solution inserted with the LTS banking software products.

◆ It is also pre-integrated with NuoBD, the company's class is distributed cloud and container local database offering banks to merge LTS core banking & analytics functionality on a sole database structure. It greatly accelerates deployment, reduces complexity, and abolishes integration costs.

◆ Gives a robust set of data engineering devices, permitting banks to blend and enrich LTS source data with other different data sources, including unstructured data. Data engineering workloads leverage the Apache Spark in-memory processing engine which is a well-known platform for huge scale SQL, batch processing, stream processing, and machine learning.

- It can be used with the third-party core banking result as well as LTS Transact.

- It is easily accessible on-premise or the cloud.

Platform Components

- Operational Data Store

- Data Event Stream

- Designer: An in-build stock of data-engineering, processing, ingestion, and egress component that lessens the difficulties of implementations.

- Deployer: Unified graphical interface to the author, performing building and migrating projects.

- Scheduler: Merges numerous sequential tasks into a single logical unit of work and allows end-users to organize workflow.

- A part of the LTS Analytics products that is inserted into cloud-native, cloud-agnostic, LTS Infinity and LTS Transact.

- Administrator: Easy to use a graphical interface to supervise projects, repositories, and user accounts.

- Data Lineage Explorer: A broad module helps to search data life-cycle from source to destination.

- Data Center Manager: It helps to supervise replication in a huge data ecosystem for data ingested in Data Lake.
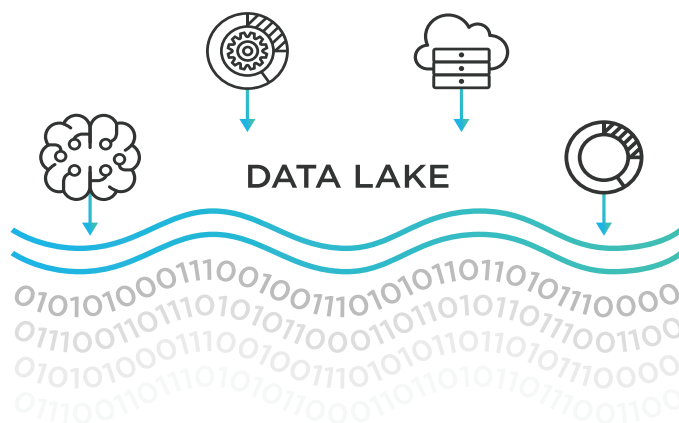
DATA LAKE

Why appoint LTS Data Lake?

- **Streaming Data** — Acts in real-time to client's events upgrading sales and client's loyalty.

- **Big Data Engineering** — Removes the cost of the third-party ETL and Data Engineering devices.

- **Analytical Models** — It lessens the development time by almost 90% and allows efficient data science development.

- **Data Compliance** — Decreases the risk and price of regulatory penalties.

- **Cloud and platform Agnostic** — Lessens platform cost by up to 90%.

- **Cloud-Native** — Uplifts scales and performance whilst diminishing the platform cost.

- **Centralized Data Lake** — With already prepared data models, populated by complete, exact, and timely data that is accessible immediately and on-demand.

- **Integrated Metadata** — Management devices accelerate adherence with the legislation like the BCBS 239. LTS Data Lakes reduces the requirements for banks to get involved in extended and costly data integration projects, with a capacity reduction in risk and compliance price of up to 80%.

- ◆ **Rapid application Development** — An intuitive extensive library of prebuilt transformation components for Apache Spark, and Apache Hadoop along with a codeless graphical development environment that uplifts productivity.

- ◆ **Extraction** — Top performance connectivity through native API's to source and target system along with in-memory parallel processing.

- ◆ **Unlimited Scalability** — Terabytes to petabytes with non-exclusive coding on distributed computing and storage platforms.

- ◆ **No special skills are needed and less implementation time** — A convenient generic interface requires limited knowledge of Hadoop and its eco-system.

- ◆ **Avoid version locking** — De-risk the investment in Hadoop and free it from capable lock-in with a particular open-source versions. Leverage the rapid revolution that comes from a constant, concerted association in the community without having to re-write the already existing applications.

LTS Analytics is an assignment critical for us in carrying out our special strategy to transform our value proposition. The potential to merge and combine various types of data is important in gaining full business insights. The use of LTS Analytics has qualified us to surgically carry out our strategy, by defining customers' micro-segments and tailoring our products and services, particularly for these segments. This has led to the development of 138% of assets under management over 8 years. LTS Data Lake and the integrated Data Analytics and engineering devices will help us peruse this aggressive growth strategy. "