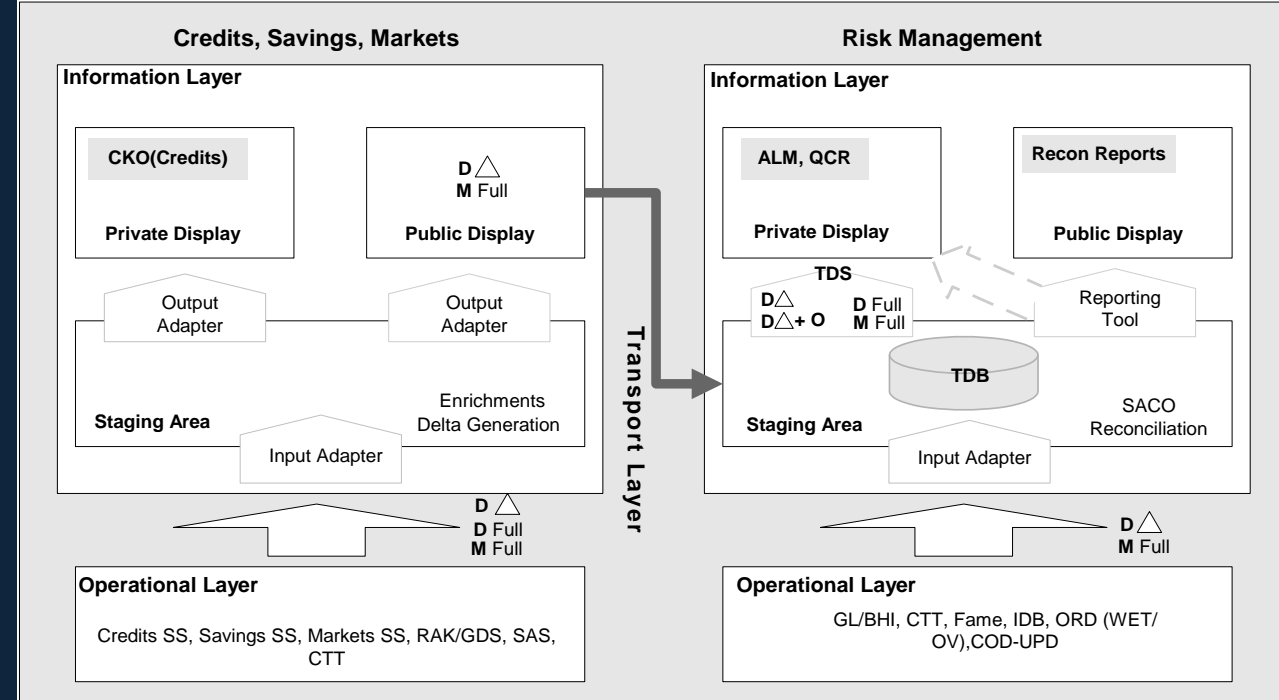# Data Warehousing/ETL Project for a Large Bank

Large European Bank
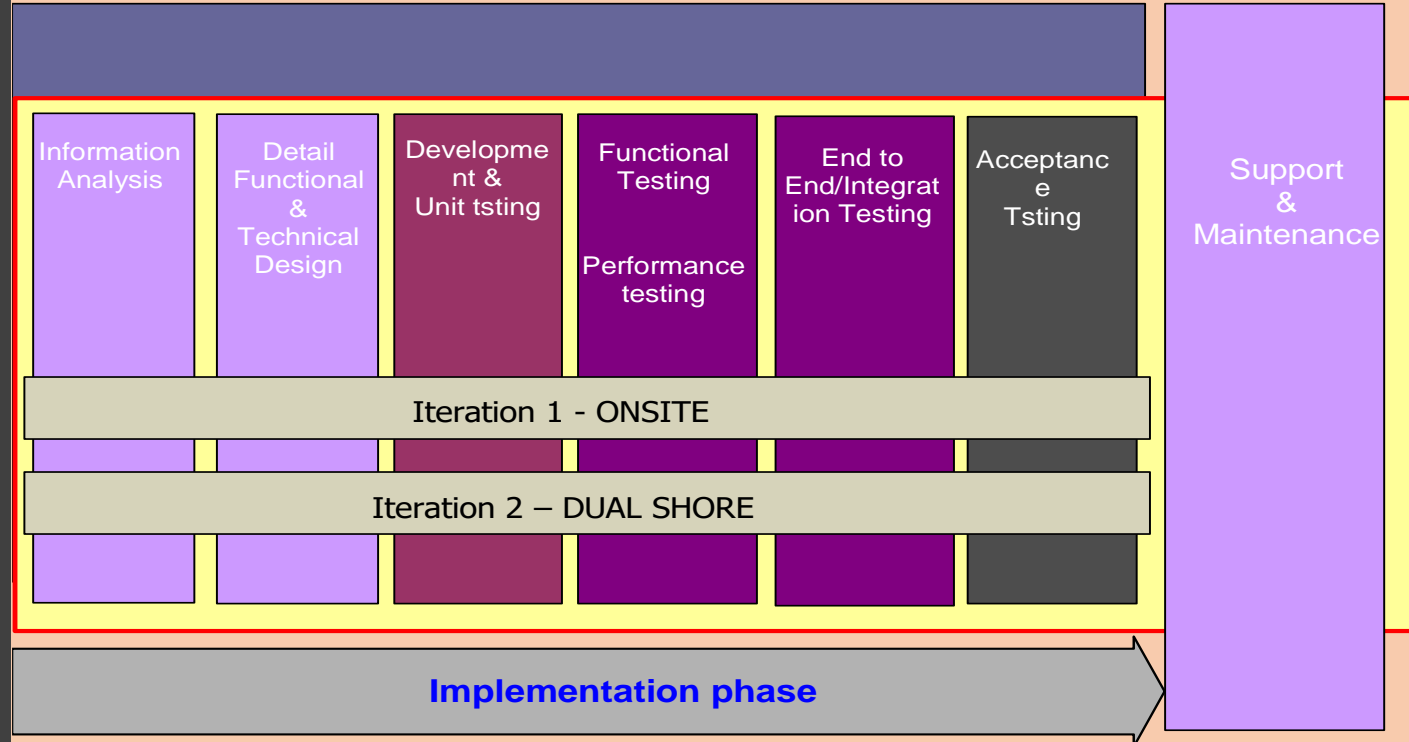
THE CLIENT PROBLEM STATEMENT

- The Client needed an application that will enable creation of robust, high quality ETL mechanisms for the Credits, Savings and Markets domains, so as to feed data for CKO (Legal reporting) application in private display of Credits domain, and to ALM (Asset Liability Management), QCR (Quantitative Credit Risk) and Markets applications in the Risk Management domain. Each of these business programs needed a considerable number of source systems to deliver contract, accounting, and reference and market information on a periodical basis. The large overlap in data needs and homogeneous timing required a clear synergy for data supply, due to which this application was identified

Credits, Savings, Markets — **Risk Management**

Information Layer

CKO(Credits) — Private Display

D△ M Full — Public Display

Output Adapter — Output Adapter

Staging Area — Enrichments Delta Generation

Input Adapter

D△ D Full M Full

Operational Layer
Credits SS, Savings SS, Markets SS, RAK/GDS, SAS, CTT

Transport Layer

Information Layer

ALM, QCR — Private Display

Recon Reports — Public Display

TDS

D△ D△ + O — D Full M Full — Reporting Tool

TDB

Staging Area — SACO Reconciliation

Input Adapter

D△ M Full

Operational Layer
GL/BHI, CTT, Fame, IDB, ORD (WET/OV), COD-UPD

NIIT technologies

SOLUTION

- Designed and Implemented the Warehouse Database based on target business requirements.
- Setting up a design methodology for similar project using the newly introduced tool Mega for both Functional and Technical Design.
- Designed and setting up the warehouse architecture.
- Decided along with the Client, the technical implementation of the warehouse.
- Actual Implementation and setting up a construction methodology for similar projects.
- A thorough application logging mechanism along with implementation of a Common Monitoring System for the data processing within the warehouse across platforms – accessible through a common web interface and SLA based.
- A maintenance framework for daily application monitoring and incident resolution is set up and running now under a maintenance umbrella.
- A common estimation model created for similar projects.

SACO Methodology

| Information Analysis | Detail Functional & Technical Design | Development & Unit tsting | Functional Testing

Performance testing | End to End/Integration Testing | Acceptance Tsting | Support & Maintenance |

Iteration 1 - ONSITE

Iteration 2 – DUAL SHORE

Implementation phase

BUSINESS OUTCOME

- Consolidation of information at one place from various heterogeneous systems
- BASEL II compliance on Capital Adequacy
- Significant savings in software development costs through dual shore model.
- Focus on the data quality/completeness/flexibility rather than the technology
- Able to receive periodic data fed from large number of source systems from diverse platforms into the information layers