



Automated Industry Data Model NBFC



Infrastructure (Azure)
Data & AI (Azure)
Digital & App Innovation (Azure)
Security
Biz Applications

Celebal Specialization and Strength



Partnerships



Advanced Specialization



- AI & Machine Learning
- Analytics
- Infra and Database Migration
- Kubernetes
- Cloud Security
- Low Code No Code
- Intelligent Automation



INDIA | USA | CANADA | APJ | MIDDLE EAST | AUS

2800+
Employees

800+
AI experienced
professionals

500+
AI Certifications



Industries We Serve



Manufacturing



Retail & CPG



Financial
Services



Energy &
Sustainability

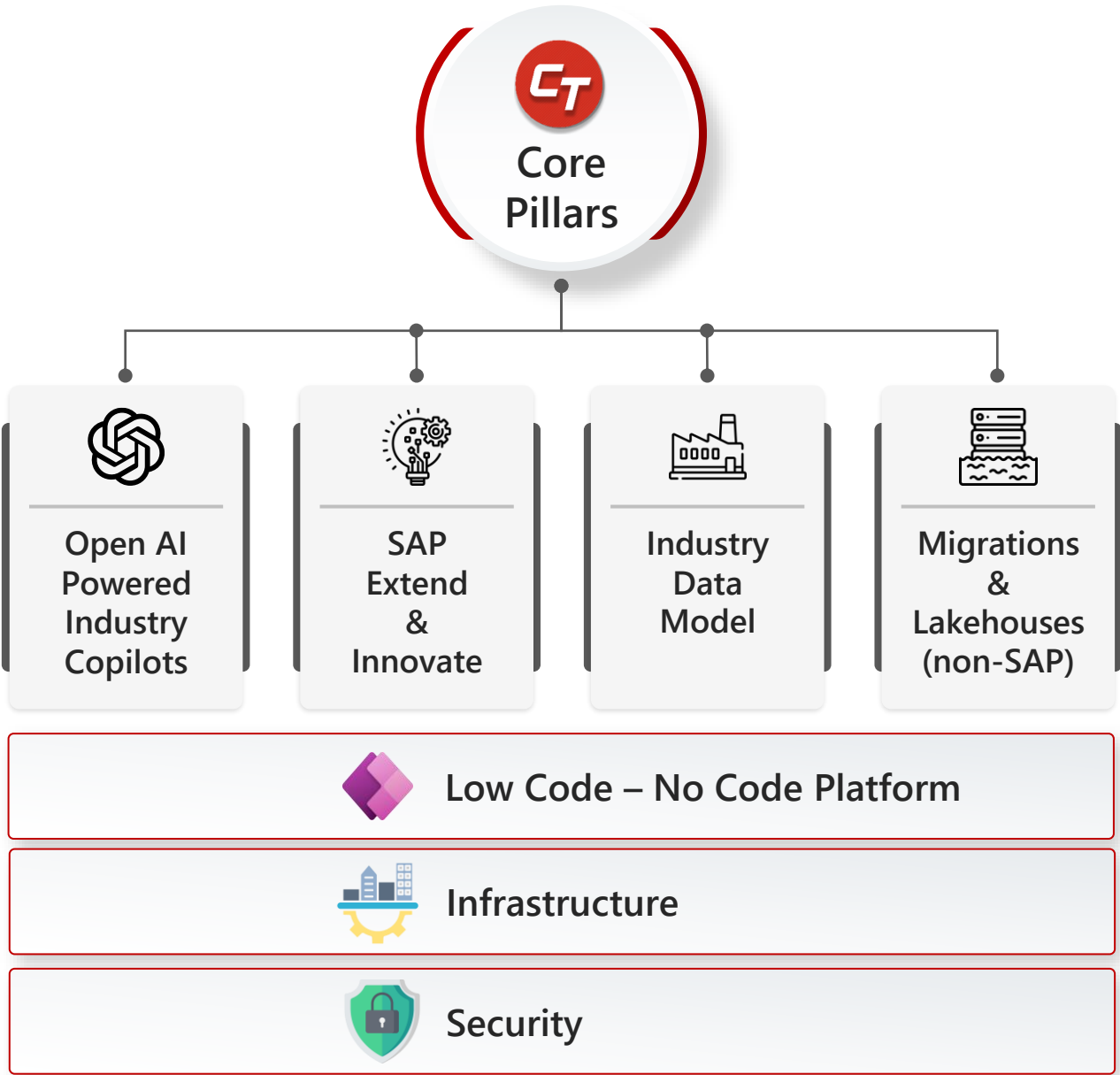


Healthcare &
Life Sciences



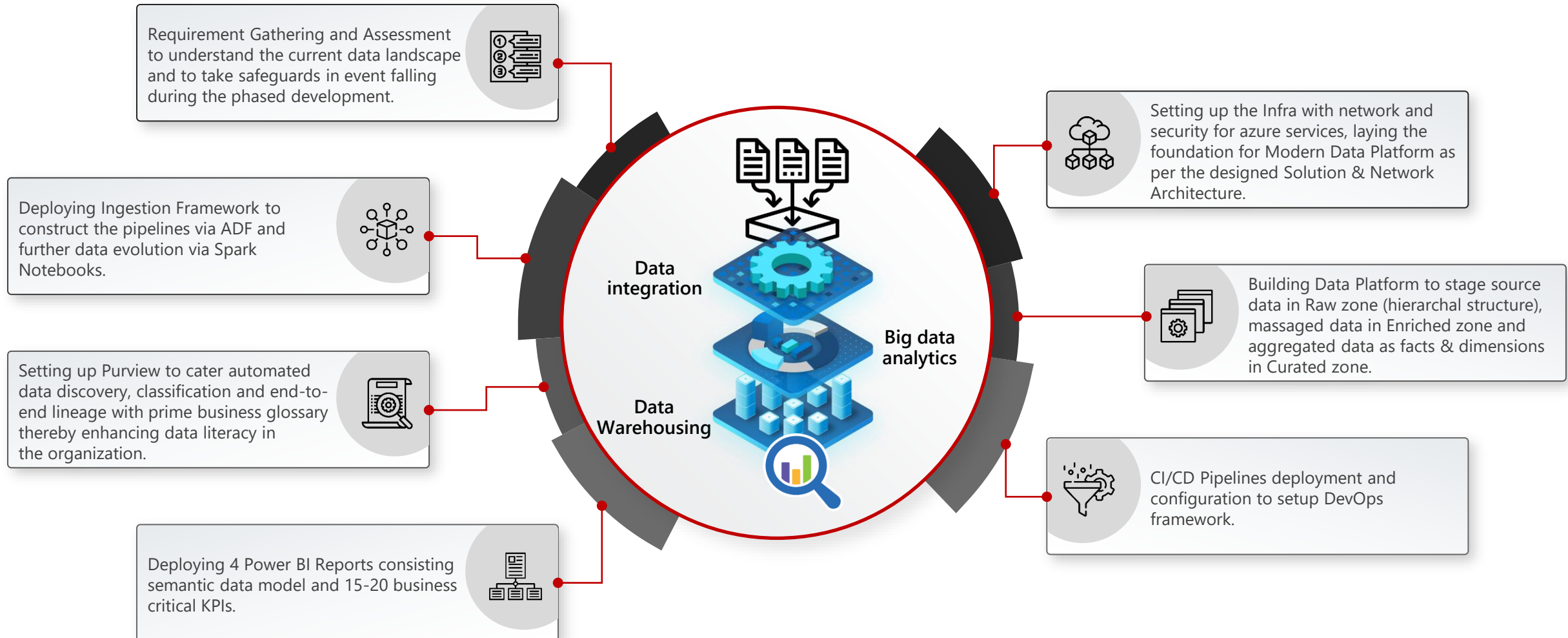
Media &
Entertainment

Celebal Core Pillars



Scope and Objectives

Theme: To construct and automate the different Data Lake solution that can be **versatile** with hybrid necessities, **apparent** with regards to data governance and lineage, **adaptable** concerning the immense size and variety of data and able to carry out the state-of-the-art advance analytics. In preference to give a logical approach to business choices, modern data fabric (enable controlled, secure and self-service economy) to deliver data model with business critical KPIs for subdomains.



Data Management Lifecycle

Data Lifecycle

Ingest

Classify

Transform

Curate

Consume

Distribute

Archive

Data Types

Streams Messages

Logs

Batch

Structured

Unstructured Media & Text

Data management & Processing

OLTP

OLAP

Columnar

Graph

Document

Index

Time

In-Memory

File System

Data Storage

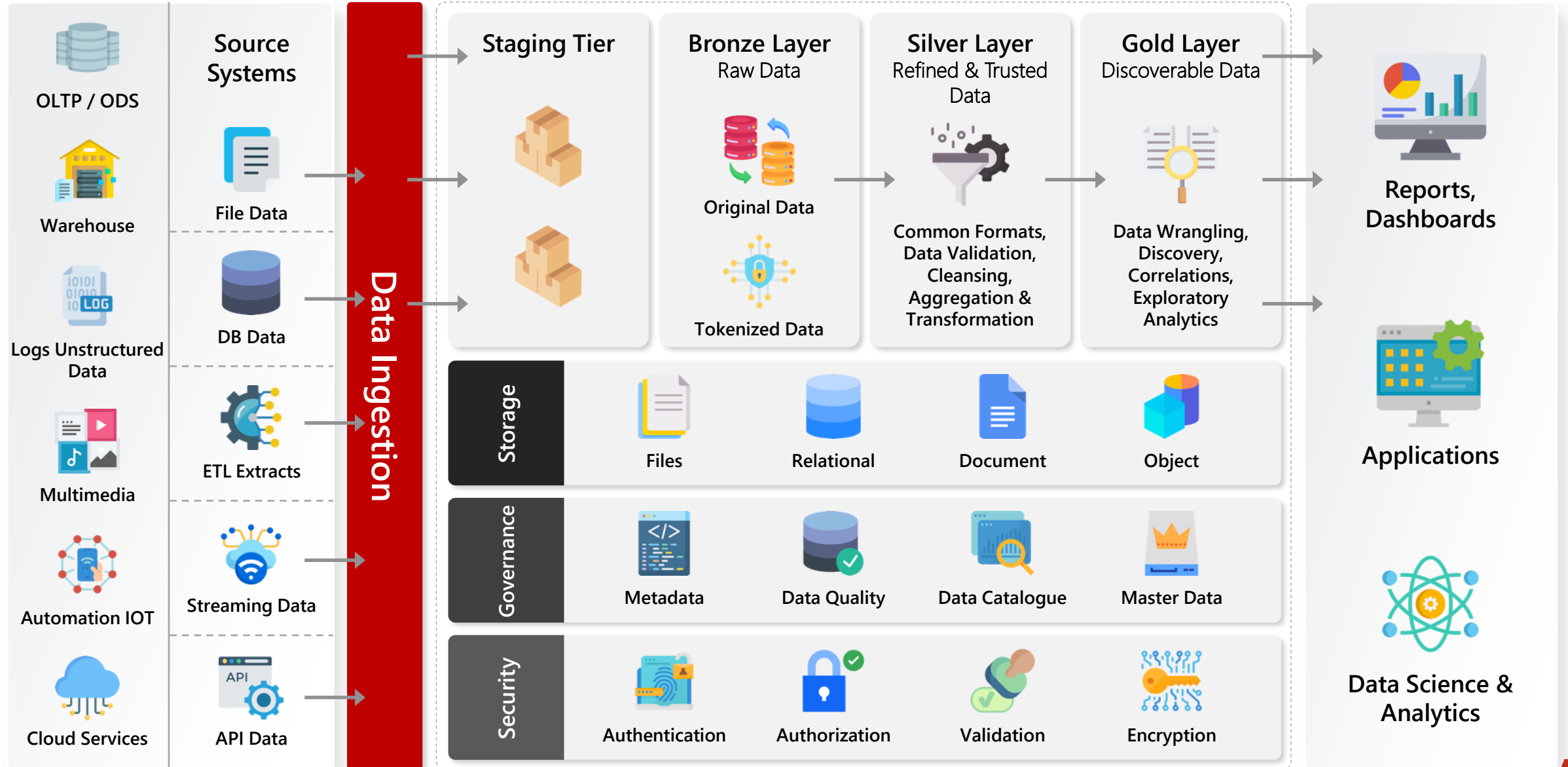
Block Storage

Object Storage

Data Security

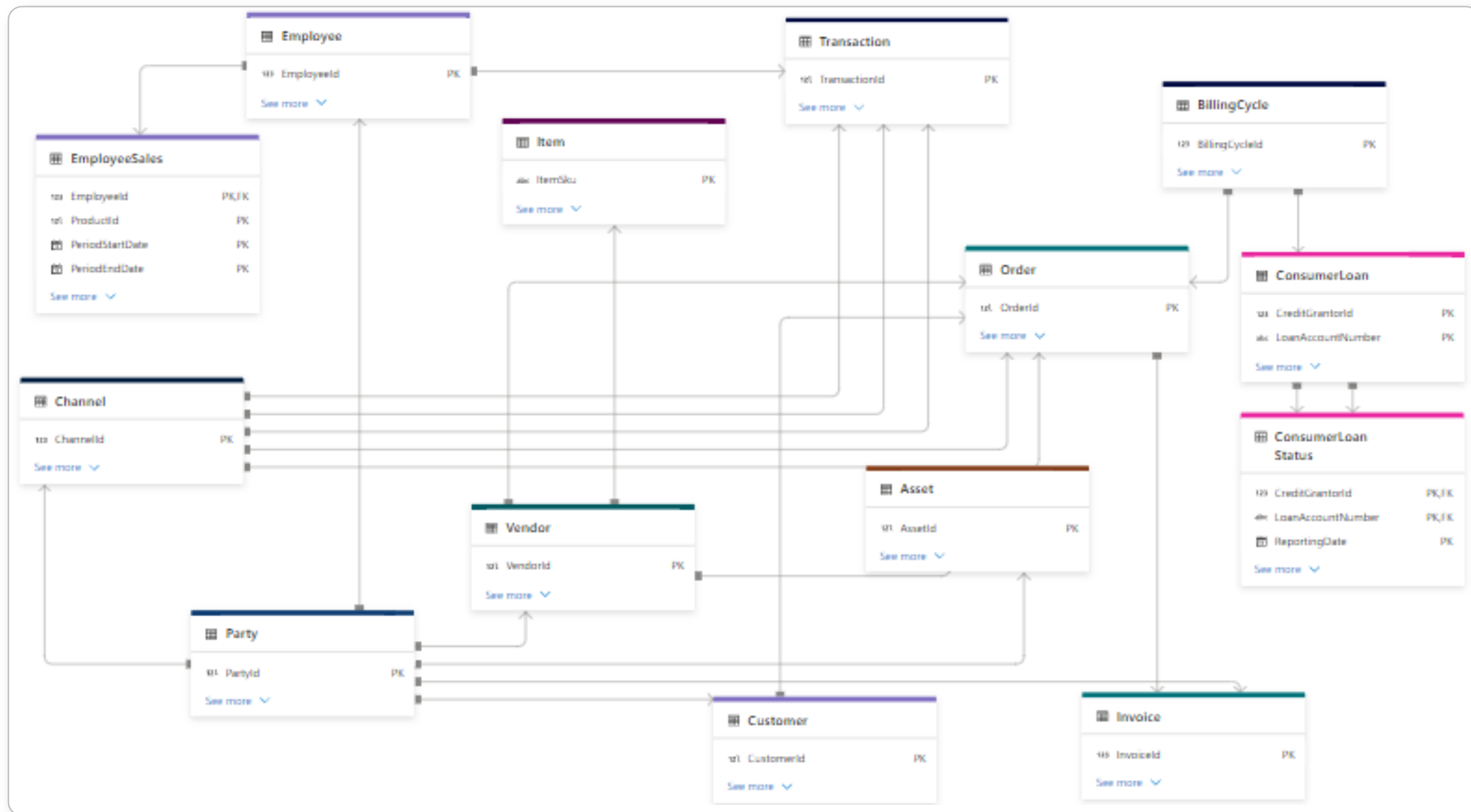
Data Governance

Reference Data Architecture



Source Mappings to be provided by Client

Source_Table_Name	Source_Column_Name	Source_Column_Type	Sink_Table_Name	Source_Column_Name	Source_Column_Type
Employee	EmployeeId	string	Employee	EmployeeId	integer
Employee	EmployeeName	string	Employee	EmployeeName	string
Employee_Name	DateOfBirth	string	Employee	DateOfBirth	date
Employee_Name	DateOfDeath	string	Employee	DateOfDeath	date
Employee_Name	EmployeeStandardCostAmount	string	Employee	EmployeeStandardCostAmount	decimal
Employee_Name	EmployeeOvertimeCostAmount	string	Employee	EmployeeOvertimeCostAmount	decimal
Employee_Name	EmployeeHireDate	string	Employee	EmployeeHireDate	date
Employee_Name	HighlyCompensatedEmployeeIndicator	string	Employee	HighlyCompensatedEmployeeIndicator	boolean
Employee_Name	KeyEmployeeIndicator	string	Employee	KeyEmployeeIndicator	boolean
Employee_Name	ExemptEmployeeIndicator	string	Employee	ExemptEmployeeIndicator	boolean
Employee_Name	NonexemptEmployeeIndicator	string	Employee	NonexemptEmployeeIndicator	boolean
Employee_Name	AlienStatusId	string	Employee	AlienStatusId	integer
Employee	SexId	string	Employee	SexId	integer
Employee	GenderId	string	Employee	GenderId	integer
Employee_Name	RacialCategoryId	string	Employee	RacialCategoryId	integer
Employee_Name	EthnicCategoryId	string	Employee	EthnicCategoryId	integer
Employee_Name	EmploymentLeadSourceId	string	Employee	EmploymentLeadSourceId	integer
Employee_Name	SecurityClearanceId	string	Employee	SecurityClearanceId	integer
Employee_Name	SecurityLevelId	string	Employee	SecurityLevelId	integer
Employee_Name	PartyId	string	Employee	PartyId	long



Customer Key Facts



Industry : NBFC



Time to Market : 6 Weeks



ACR : \$3500/Monthly

Dashboards



CEO Summary, Login & Sanction Dashboard



Disbursement & Yield Analysis



Assets Quality Optimization

Challenges & Solution



- ✓ Analyze Overall Logged & Sanctioned, Disbursed, and Asset Quality.
- ✓ Automated Data Model are built by consolidating organization's Portfolios, Sanction Amounts various data sources including CRM, credit history, underwriting, collateral, collections, etc.

Impacts



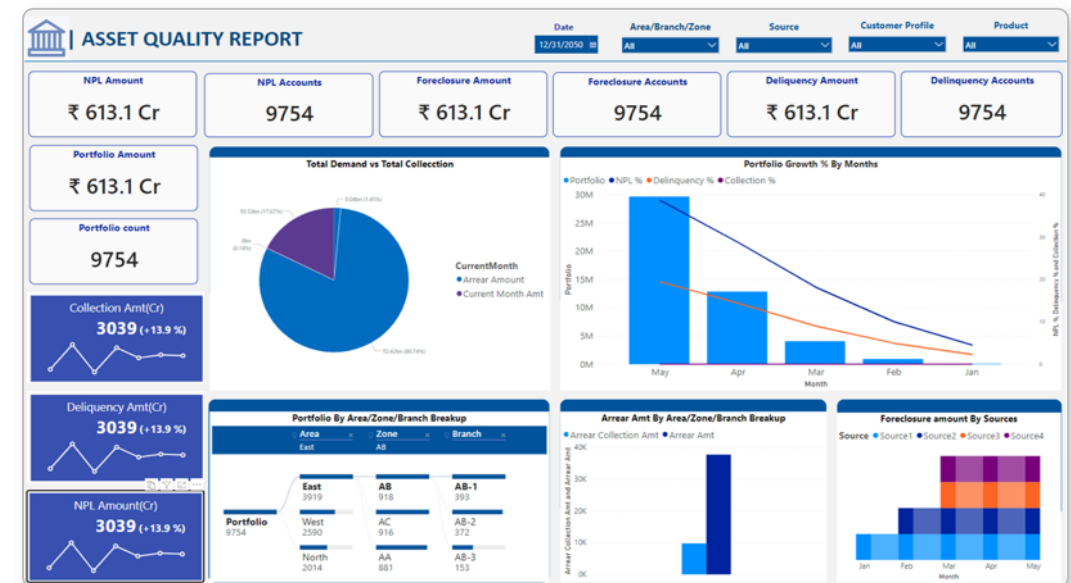
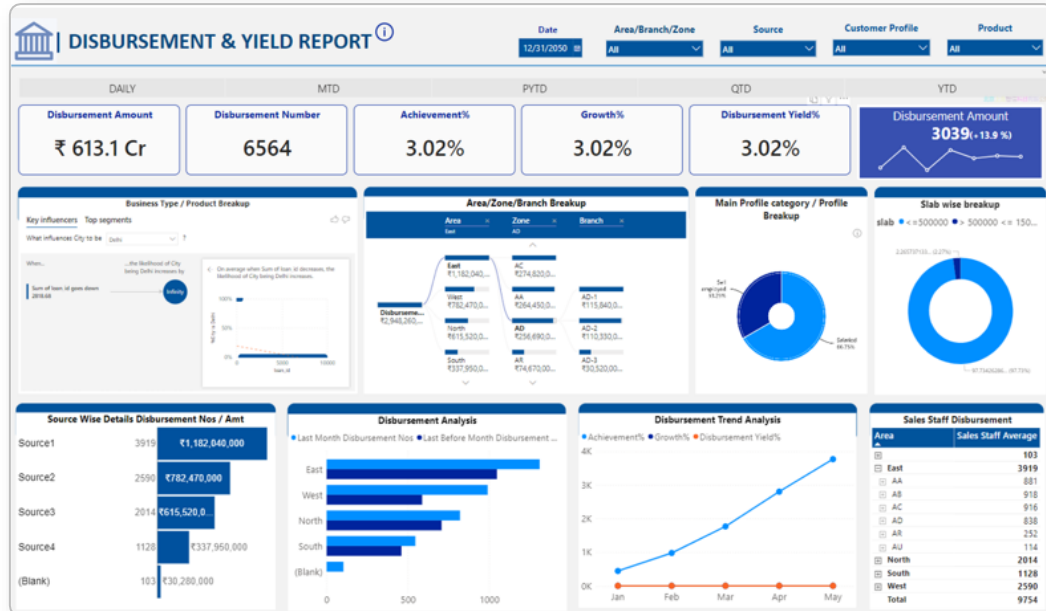
- ✓ The solution was implemented which enhanced the organization's analytical abilities leading to a **10-12% increase in the growth**. Also, the asset quality optimization led to a **better disbursement yield**.

KPIs

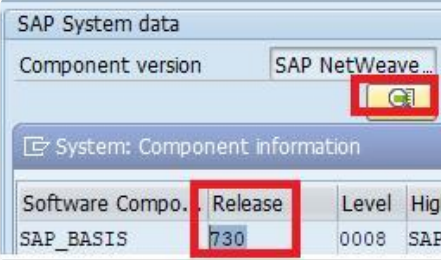


- | | | |
|---------------------------|--------------------------------|-------------------------------|
| 1. TAT Login to Sanction | 6. Disbursement Trend Analysis | 11. Sales Staff Disbursement |
| 2. Login Count, Amount | 7. Portfolio Amount in Cr. | 12. Ratio Slab Wise sanctions |
| 3. Sanction Count, Amount | 8. NPL Amount | 13. Cancellation/Rejection |
| 4. Disbursement Yield % | 9. Delinquency Amount | 14. Demand vs Collection |
| 5. Growth % | 10. Foreclosure Amount | 15. Portfolio Growth % |
| | | 16. And few more... |

Report Snapshots - NBFC



- ✓ Use SAP GUI to connect to the SAP System.
- ✓ Go to **System -> Status**.
- ✓ Check the release of the SAP_BASIS, ensure it is equal to or larger than 701.



SAP System data			
Component version		SAP NetWeave...	
System: Component information			
Software Comp.	Release	Level	High
SAP_BASIS	730	0008	SAP



Access approvals & Data Sources Integration will be dealt with high priority requiring Client SPOC from Infra, Security, CloudOps Team & Solution Architect.



Source field mapping as per the target objects to be provided by the client.



Power BI License to be purchased by Client for developers to deploy BI Reports/Dashboards as per the timelines.



All stakeholders (responsible for report matrices) shall give a sign-off on metrics before Celebal Tech creates the reports.



Access to Azure subscription & Remote database/data sources will be made available for Celebal Tech team



During UAT phase, dedicated SPOC or business user from Client side would be required till Sign-Off, to avoid any delays, cater any issues or revisions which will help expedite solution deployment & delivery.



Assumptions

- ✓ 1 fiscal year data from Data Sources would be considered for loading into Data platform.
- ✓ Source mapping would be provided by client.



Deliverables

- ✓ 4 Power BI reports/dashboards with 15-20 business critical KPIs.
- ✓ Landscape for in-scope Source Systems with ingestion framework and Data Layers.
- ✓ Documentations.



Features

- ✓ Power BI model is defined re-usable way for features like Q&A, communication between multiple users via comment. etc.
- ✓ Self-service features. Multiple data layers can be managed as per the use-cases and user groups.
- ✓ Integrable with other sources like Data streaming, unstructured data, AI&ML capabilities using Data platform.

Data Management

Lakehouse Architecture enabling multiple data layers to serve different use-cases.



Source Integration

Consolidation of multiple Data Sources.



Modern solution-built

Fully customizable to address specific business needs.



Deployment

Improving customer experience and business outcomes by 20% with Reducing cost by 20%.



Access Management

Easier access to source data for reporting and analysis.



BI Report

Readily usable KPIs and BI Reports enhancing Analysis and Productivity.



Design Customization

Simpler, customizable, and collaborative end-user interfaces.



Self-Service BI

Instant Decision making with Slide & Dice capability.



The cost for one solution implementation is \$12,500



Assumptions

- ✓ Total data volume to be copy from Source to Staging Layer is ≤ 1 TB(for historical data load and < 10 GB for daily incremental) covering 1 fiscal year data
- ✓ Total number of Source tables considered in scope is between 20-30 covering master and transactions
- ✓ Total 4 Power BI Reports/Dashboards with around 15-20 business critical KPIs.



CELEBAL
TECHNOLOGIES

Thank You