Microsoft Fabric Center of Excellence: 16-Week Implementation
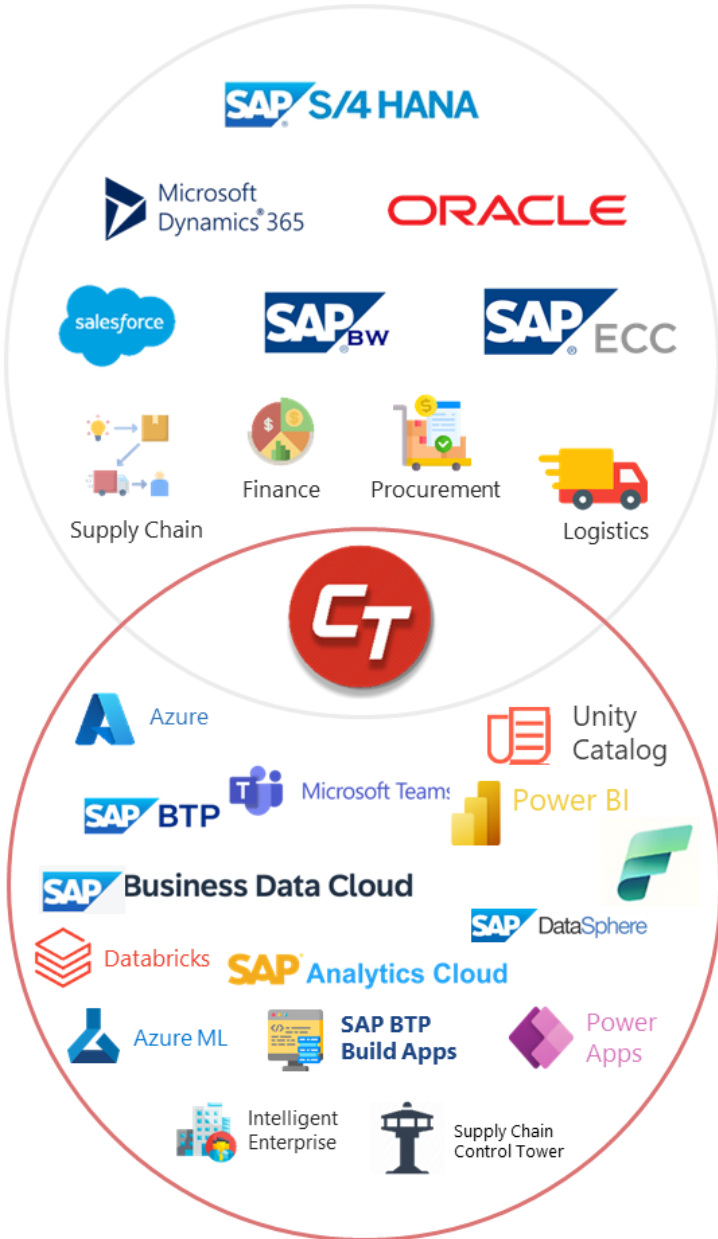
Traditional Enterprise Meets Modern Cloud Solutions

CT CELEBAL TECHNOLOGIES

SAP S/4 HANA
- Microsoft Dynamics 365
- ORACLE
- salesforce
- SAP BW
- SAP ECC
- Finance
- Procurement
- Supply Chain
- Logistics

CT
- Azure
- Unity Catalog
- SAP BTP
- Microsoft Teams
- Power BI
- SAP Business Data Cloud
- SAP DataSphere
- Databricks
- SAP Analytics Cloud
- Azure ML
- SAP BTP Build Apps
- Power Apps
- Intelligent Enterprise
- Supply Chain Control Tower

Microsoft Solutions Partner

Microsoft AI
Partner of the Year - Global

Microsoft AI
Partner of the Year - India

Microsoft Rising Star
Partner of the Year - APAC

Azure Data AI
Partner of the Year - Malaysia

Microsoft Country
Partner of the Year - India

databricks Elite Partner

Databricks Partner of the Year - APJ

Partnerships

- Microsoft Solutions Partner
- databricks Elite Partner
- SAP Silver Partner
- sigma
- aws PARTNER Advanced Tier Services

Stats
- **3000+** Employees
- **1550+** Azure Certifications
- **500+** Data Scientist Certifications (Azure OpenAI)
- **1000+** Databricks Certifications

Advanced Specialization
- AI & Machine Learning
- Advanced Analytics
- Infra Migration to Microsoft Azure
- Kubernetes
- Cloud Security
- SQL server and Windows Migration server and Windows Migration

Industries We Serve
- Manufacturing
- Retail & CPG
- Financial Services
- Energy & Sustainability
- Healthcare & Life Sciences
- Media & Entertainment
- Education

Global Presence
Americas | Europe | Middle East | APAC (India, SEA, Australia, Japan)

Solution Areas

CELEBAL TECHNOLOGIES

Data, AI, Apps & Infra

Big Data (ADX, Cosmos)	Fabric	Open AI
Cognitive Vision	Databricks	AI/ML
Azure VM	Azure	DC Migration
VPN Gateway	Load Balancer	SQL Database
Application Modernization	Azure DevOps	Super Apps

Reduced Cost, Faster Development, Insightful Data

Security

Identity Governance	Microsoft Entra ID	Multi-Factor Authentication
Endpoint Management	Azure Sentinel	Zero Trust
Defender for Cloud	Defender for Cloud Apps	Defender for Endpoint
Microsoft Purview	Azure Policy	Defender XDR

Secure your Data and your business

Modern Workplace & Business Apps

Microsoft Viva	CoPilot	
SharePoint		Microsoft Teams
Power Apps	Power Platform	Power Automate RPA
Power BI		Microsoft Dynamics 365

Enhanced productivity, ease of business

Our Fabric Strength

Our Fabric Strength

- Fabric Certified Professionals
- Successful Deliveries
- Industrial Verticals
- Fabric Experts

450+
Certified Professionals

- Skilled and Microsoft Fabric Analytics Engineer Associate-Certified Employees

40+
Project Delivered

- Successful Projects deliveries for various use cases including Migration
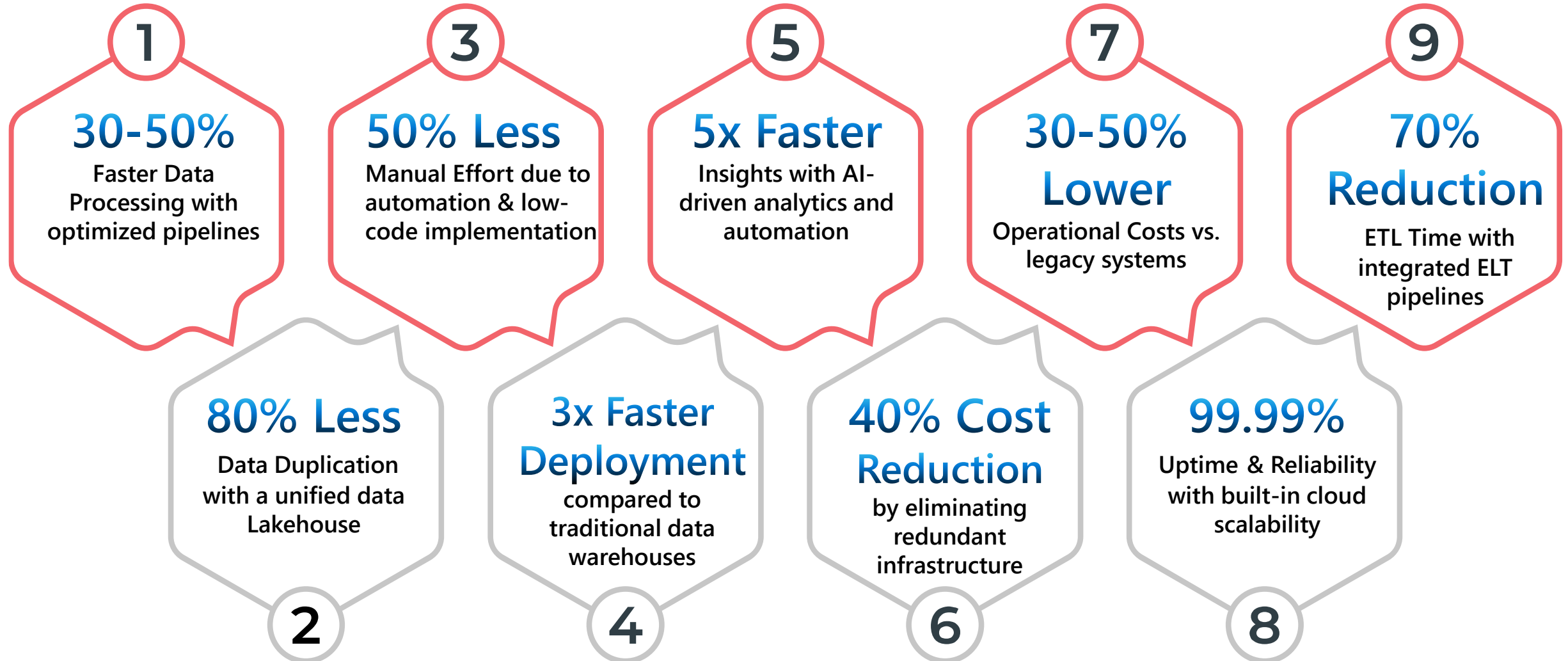
75%
Industry Verticals

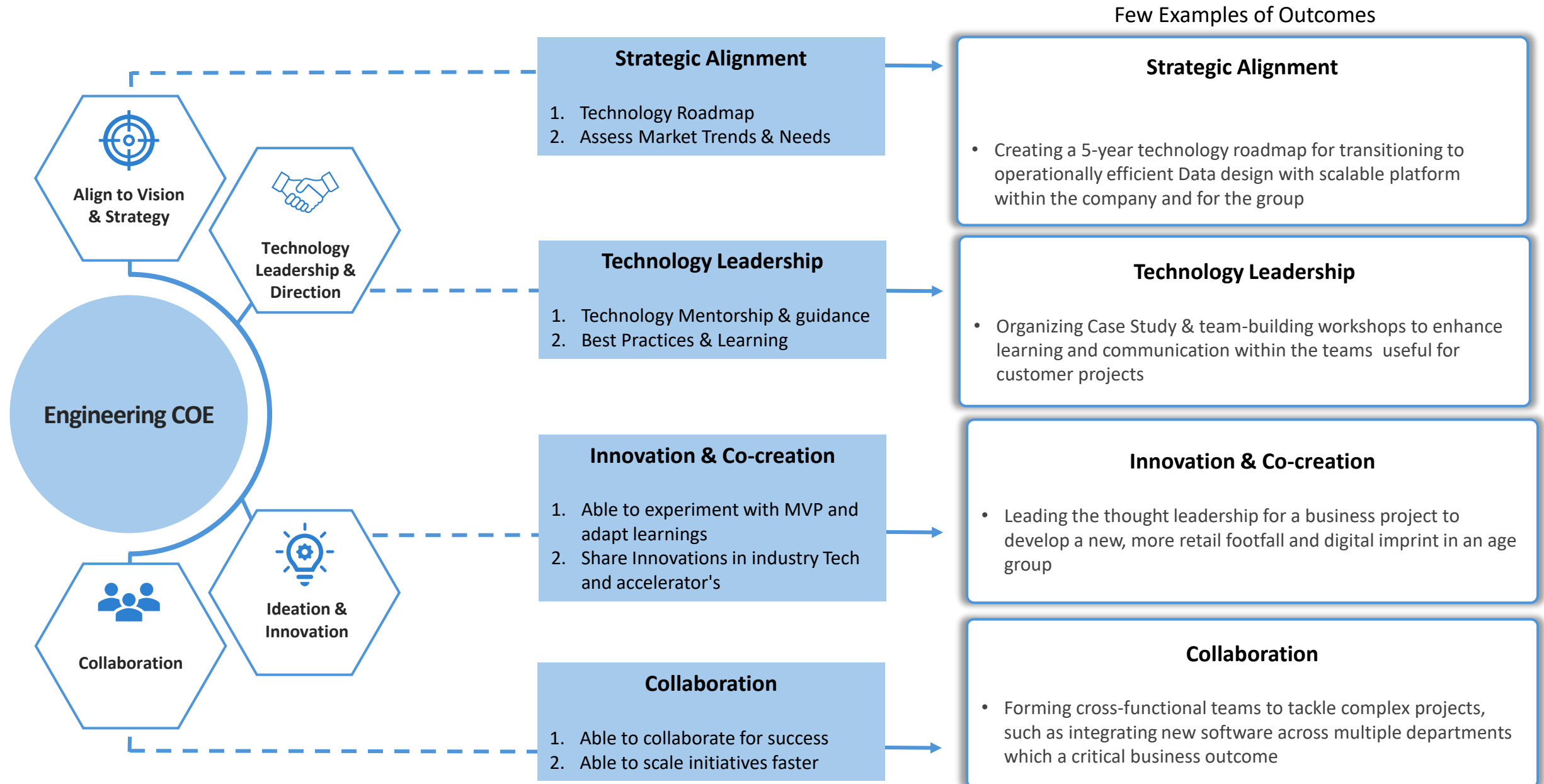- Served in Healthcare, Law firm, Telehealth, Aviation, Manufacturing, Life Science, Retail & CPG, etc.

50+
Fabric Experts

- Fabric Experts ensure performance standards .

Measurable Benefits of Microsoft Fabric Adoption

CT CELEBAL TECHNOLOGIES

1
30-50%
Faster Data Processing with optimized pipelines

3
50% Less
Manual Effort due to automation & low-code implementation

5
5x Faster
Insights with AI-driven analytics and automation

7
30-50% Lower
Operational Costs vs. legacy systems

9
70% Reduction
ETL Time with integrated ELT pipelines

80% Less
Data Duplication with a unified data Lakehouse
2

3x Faster Deployment
compared to traditional data warehouses
4

40% Cost Reduction
by eliminating redundant infrastructure
6

99.99%
Uptime & Reliability with built-in cloud scalability
8

Celebal's Engineering COE Value for Strategic Projects

Few Examples of Outcomes

Align to Vision & Strategy

Technology Leadership & Direction

Engineering COE

Ideation & Innovation

Collaboration

Strategic Alignment

1. Technology Roadmap
2. Assess Market Trends & Needs

Technology Leadership

1. Technology Mentorship & guidance
2. Best Practices & Learning

Innovation & Co-creation

1. Able to experiment with MVP and adapt learnings
2. Share Innovations in industry Tech and accelerator's

Collaboration

1. Able to collaborate for success
2. Able to scale initiatives faster

Strategic Alignment

- Creating a 5-year technology roadmap for transitioning to operationally efficient Data design with scalable platform within the company and for the group

Technology Leadership

- Organizing Case Study & team-building workshops to enhance learning and communication within the teams useful for customer projects

Innovation & Co-creation

- Leading the thought leadership for a business project to develop a new, more retail footfall and digital imprint in an age group

Collaboration

- Forming cross-functional teams to tackle complex projects, such as integrating new software across multiple departments which a critical business outcome

Celebal Technologies

Pre-requisites identification and provision on time will increase the rates of on time completion while in depth assessment and planning phase will help the CT team to provide the best suited solution and implementation plan.

- Seamless implementation post these phases
- Identify bottleneck efficiently and provide feasible solutions
- Avoids iteration of solution changes due to new information mid project.

Pre-requisites

- Provision of the workspace by client
- Access to the required artifacts to assess the landscape
- Current solution documents and artifacts
- Align required SMEs and PoCs
- Understanding of the process and flows in the current system
- Identify the high-level issues and bottlenecks.
- CT to understand the problem statement

Assessment and Planning

- Current landscape assessment.
- Understanding the provided technical documentation
- Architecture assessment & Design evaluation
- Full System Audit to understand dependencies and complexities
- Framework Design and Automation
- Deep dive in a bottleneck as part of RCA.
- Provide a solution addressing the issues and other required features
- Project plan, timelines, and solution architecture finalization

We will take a Phased delivery approach to deliver this migration. It will help:

- Realize incremental value throughout the Fabric lifecycle.
- Deliver functionality or features in iterative way to provide early wins
- Demonstrate progress along the way

- Gather user feedback to inform subsequent phases
- Maximizing value realization and user satisfaction.

MVP

- Architecture assessment & Design evaluation
- Full System Audit to understand dependencies and complexities
- Prototyping of Architecture Components
- Framework Design and Automation
- Develop one use case/Report end to end to Fabric
- Deployment & Parallel Runs
- Data Reconciliation
- Connect Reporting layer to Synapse warehouse in Fabric
- Perform Benchmarking test to meet user SLA
- Refine proposal and for Scale out phase

Scale Out

- Implementation at scale with multiple use cases.
- Development of all data/ reports/ jobs to Fabric
- BI Platform Integration/ implementation
- Conduct user acceptance testing with business users
- Optimization Approach
- Conduct user acceptance testing with business users
- Production Cut-Over
- Assess Data Intelligence Platform for future analytics road-map

Post implementation support and expansion will ensure the successful delivery of the solution and leveraging the solution for deeper insights. It will-

- Ensure the stability of the solution
- Leverage the Fabric capabilities

Monitoring and Maintenance

- Monitor the implemented solution
- Provide support to meet the SLA
- Ensure the stability of the implemented solution

Expansion

- Post implementation of migration to Fabric, leverage the capabilities of Fabric to gain deeper insights.
- Explore the untouched departments/use cases to implement a similar solution or an advanced solution.
- Setup a road map to implement advanced use cases such as:
    1. Predictive analysis
    2. Chatbot
    3. Platform observability dashboards
    4. Other industry specific data and AI solutions

Factors Affecting the Sizing of Cloud Migration Assessments

Technical

1) **Data Volume:** Size of data, number of database/tables to be migrated.

2) **Data Source Integration:** No. of sources to be integrated, it can be batch loads or streaming.

3) **ETL Complexity:** Complexity of ETL logics to be converted/migrated.(Simple, Medium or Complex)

4) **On-Premises:** Additional effort on Infra setup for On-Prem sources

5) **Customizations:** Customizations with respect to PBI reports, AI/ML use cases or Custom Data Quality logics.

6) **Reports size and KPI:** No. of KPI and pages per report, complexity of the reports.

7) **AI/ML Use cases**: No. of AI/ML use cases and type of use cases to be implemented

Commercial

- **Timeline:** The timeframe for Implementing the Fabric data platform.

- **Budget:** The allocated budget for the Fabric Implementation project.

Volumetric Assumption for Workload Sizing

Large

| Data Size	~ 10 TB
# of Batch load sources	6
# of Streaming sources	2
# of BI Reports	6
# of AI/ML use case	2
# of third-party integration	5
Data Governance	RBAC, RLS, OLS, MS Purview
Other features	Data Activator for Alerts and Data Monitoring
Implementation Time	~16 Weeks

Scope of Work for Workload Sizing

Large-Scale
~16 Weeks

✓ Robust insights: Harness 6 BI reports, 1 ML use case, and 1 GenAI use case.

✓ Agile data handling: Batch pipelines up to 6 sources and 2 sources with streaming pipelines.

✓ Advanced governance: Implement RBAC, MS Purview, RLS, OLS, etc.

✓ Vigilant monitoring: Ensure Data Monitoring & alerts with Data Activator.

✓ Scale confidently: Handle up to 10TB of data seamlessly.

✓ Seamless Integration: Integrate third-party tools for enhanced functionality.

✓ Smooth deployment: Ensure seamless production and go-live.

| Milestone	W0	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16
Assessment	■	■	■														
Infra Setup	■	■	■														
Data Ingestion			■	■	■												
Data Modelling and warehousing				■	■	■	■	■	■	■							
Data Governance			■				■							■	■		
BI report					■	■	■	■	■	■	■	■	■				
AI/ML						■	■	■	■	■	■	■					
DevOps					■						■						
Testing and Quality							■	■	■		■	■	■	■			
UAT									■	■	■	■	■	■		■	
Go-live												■	■	■	■	■	■

Large Scale

- Stakeholder Commitment: The customer's organization will provide the necessary resources, funding, and support for cloud adoption.

- Data Security Compliance: Customer's data complies with relevant regulatory and security requirements.

- Data Classification: Sensitive data is identified and classified for appropriate handling during migration.

- Workload Assessment: Existing workloads are assessed to determine their suitability for migration.

- Team Skills and Training: The IT team has the required skills and is open to training for effective cloud technology utilization.

- Current IT Environment: A clear understanding of the existing on-premises infrastructure is in place.

- Resource Allocation: A dedicated team with the necessary expertise is assigned to the cloud adoption initiative.
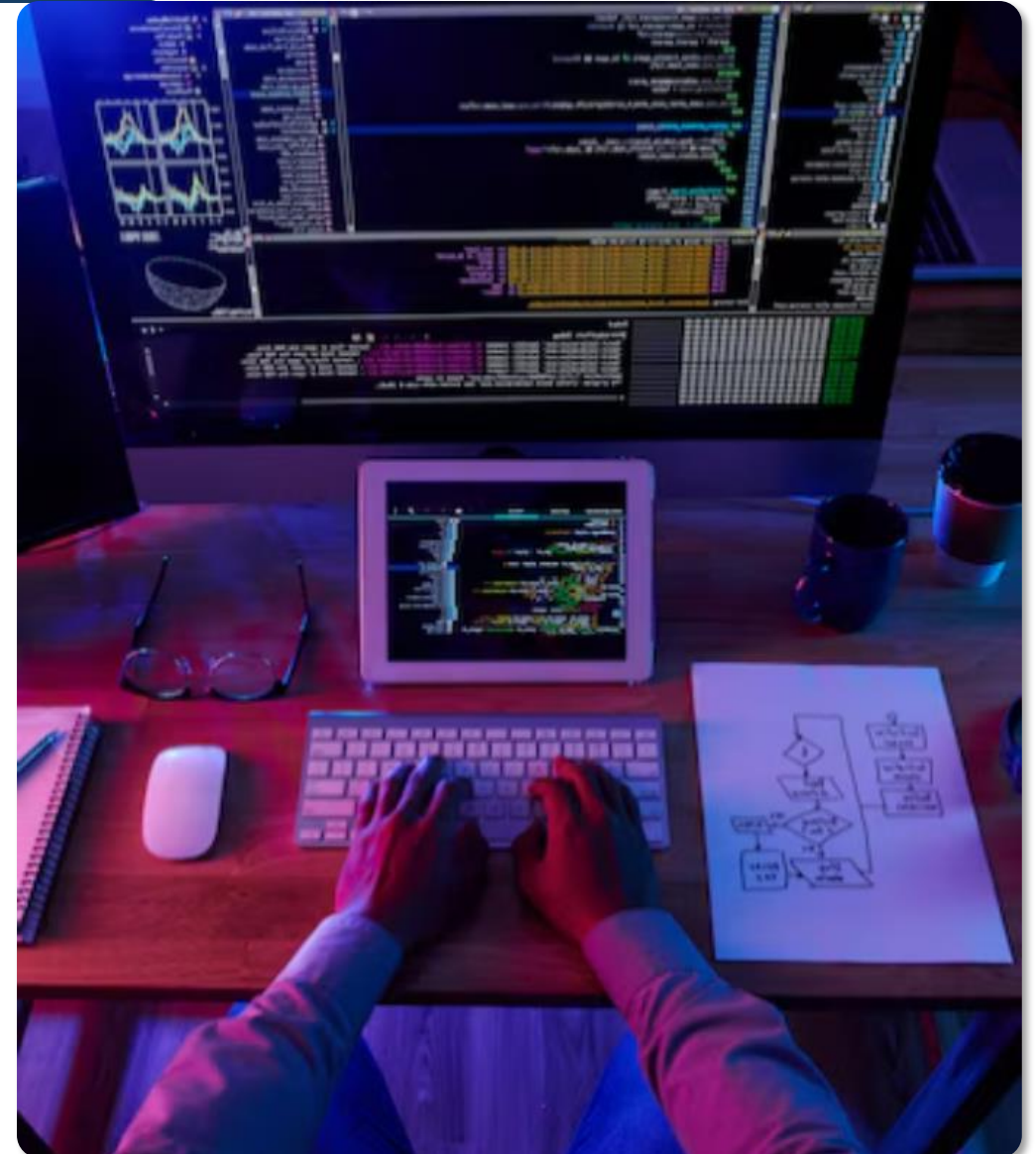
- Real time and near-real time data ingestion.

- Implement CDC at source end.

- Performance tuning of source system.

Technical Approach

Infrastructure and Access
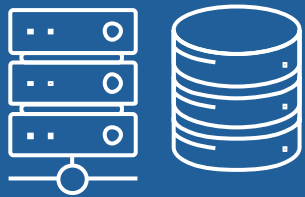
Gathering access of Azure, VDI & all necessary resources and team onboarding

STEP 01

Requirements and Analysis

Identification of various data sources, data quality rules to be implemented, existing systems and finalizing the Scope of Work besides project plan

STEP 02

Build and Test

Develop and implement Data Quality framework, ETL processes, data governance and Reporting of Quality metrics besides other reports

STEP 03

Deploy

Deployment solution, documentation and sign-off

STEP 04

The architecture diagram is divided as per the activities executed.

Data Sources

1. Historic data will be loaded from data sources to One Lake through Fabric data factory. The daily data (incremental or snapshot) will be loaded from the sources mentioned.
2. Onelake will act as single source of truth for all the data sources to be integrated in future.

Data Ingestion

1. Batch loading for data into One Lake through Fabric data factory. A folder Hierarchy will be maintained, and the data will be segregated based on the sources
2. Data from SQL will be loaded through Fabric data factory

Data Transformation and Modeling (Transform)

1. The **Raw Zone** consists of data from single domain. There will be no transformations performed in the Raw Zone.
2. The **Enriched Layer** will have Data Validation and Quality checks. This data will be in a Data warehouse type model.
3. The **Curated Zone** will implement Data warehousing schema, and it will be the layer consumed for BI reports.

Analysis & Visualization

1. Views will be created, and KPI will be built on top of the curated data & results will be stored.
2. This will be the consumption layer which will fetch data from the Curated Layer of Fabric.

Thank You