

Cognos to Power BI Migration





Sigmoid is an emerging leader in data engineering and Al solutions.



750+

Employees



Work with **30+**Fortune 500 firms



>97%

CSAT score



200+

ML models operationalized



5000+

Data pipelines built

Backed by

SEQUOIA 些



Technology Fast 500 2023 NORTH AMERICA Deloitte



Open Source data solution provider of the year



Awards and Recognition

Report releasing Jan 2024



FORRESTER Now Tech: Al Consultancies, Q1, 2021 Report



Major Contender in

EVEREST GROUP

Analytics and AI Services Specialists PEAK Matrix (2022)

Offices



New York



San Francisco



Dallas



Lima



Bangalore



Amsterdam



London



Sao Paulo



Enabling Business Transformation with Full-Service Capability Suite

Business Consulting & Data



Data Strategy & Vision



Data Monetization



Data & Technology Roadmap



Technology Evaluation & Selection



Data Governance & Security Strategy



Al/Gen Al Strategy

Data Engineering Services

Data Pipelines	ML Engineering	Cloud Trans.	BI / Consumption
Data Migration & Conversion	Model scaling & productionizing	Cloud Migration	Data Lake / Mesh
Performance	Feature	Application Modernization	Data Product
Optimization	Engineering		BI Reporting & Visualization
Data Ingestion ETL/ELT	Pipeline Optimization	Cost optimization	AI/ML, LLM

Data Science



Supply Chain Analytics



Marketing & **Consumer Analytics**



Operational Analytics



F-Commerce & Sales Analytics

Managed **Services**



Data Labs



Cloud Infra Support and Management



Devops and Secops Support



DataOps & ML Ops



Data Application Managed Services

Governance & Security Services



Technology Partners

Data Catalog & Lineage



Master Data Management



Data Quality & Security

Technology Expertise



Microsoft

databricks

Cloud Technologies



































Sigmoid Capabilities - Experience in implementing data solutions in Azure

Sigmoid has worked with more than Five large customers to design, build and deploy solutions in Azure

Data Processing & Transformation:

- Azure Databricks: Collaborative Apache Spark-based analytics platform to be used for big data processing and machine learning.
- Azure HDInsight: Managed cloud service for processing big data using popular open-source frameworks like Hadoop and Spark.

Data Storage & Management:

- Azure Data Lake Storage: Scalable and secure data lake for storing large amounts of structured and unstructured data would be considered.
- Azure SQL Database: Managed relational database service for structured data storage.

Data Ingestion & Integration:

- Azure Data Factory: Creating data pipelines to move and transform data from various sources.
- Azure Event Hubs: Real-time data ingestion from applications, devices, or any data streams would be done.

Data Analytics & Visualization:

- Azure Synapse Analytics: Analytics service which will be used for analyzing large amounts of data using either serverless or provisioned resources.
- Power BI: Business intelligence tool to be used for creating interactive visualizations and reports.

Machine Learning & Al:

- Azure Machine Learning: End-to-end platform for building, training, and deploying machine learning models.
- Cognitive Services: Pre-built AI services for vision, speech, language, and decision-making.



Security & Compliance:

- Azure Active Directory: Identity and access management service.
- Azure Policy & Blueprints: Tools for implementing governance and compliance across Azure resources.

Sigmoid's implementation of solutions in Azure involves leveraging a combination of services and tools tailored to specific business needs. Sigmoid would collaborate between data engineers, data scientists, business analysts, and other stakeholders as it is essential to align the implementation with business goals and ensure success.

Data Products







Key Lessons from Global BI Migration Programs: Common Challenges



Lack of Business involvement through the program



Failing to account for scalability of the new platform can affect performance and adoption



Data loss or corruption during migration may lead to validation issues



Lack of maturity in delivery methodology & product mindset resulting in delays and missed expectations



Change in business needs; Scope creep can lead to increased costs; longer timelines



Limited focus on Change Management & adoption



Not enough focus on data governance



Platform cost overruns and limited ROI



Key Lessons from Global BI Migration Programs: Mitigation Strategies

Comprehensive Planning

- Detailed project plan including
 - Risk assessment
 - Mitigation Strategies
 - Contingency Plan

Stakeholder Engagement

- Involve stakeholders from the outset to ensure buy-in and address concerns proactively
- Plan for evolving business needs during the migration

Phased Implementation

- Phased approach to migration to minimize risks and allow for iterative improvements
- Strong **Data Governance** practises

Training & Support

- Change Management: User Adoption, Training
- Communication: Coordination, Documentation

Foundational Sigmoid Paradigm - Leverage Solution Accelerators & Cross-functional Experts

- Consistency & Data Accuracy via Reusable Components
- Automation = Minimal Potential for Human Error versus brute force approach
- Customizable for unique client configurations and preferences
- White Box → Future Proofed

- Data: top-tier Data Engineers and Data Scientists who like to roll up their sleeves
- **Tech:** SMEs of Cloud who provide unbiased advice
- Business: management consultants and industry veterans who steer solutions to maximize business outcomes





Sigmoid's Migration Accelerators Create a Winning Solution

Sigmoid's accelerators bring about automation, consistency, data accuracy in the creation of high-def PowerBI reports

1)

Extract from Cognos

2 Creation of Business Layer

3 Standardize in PowerBI

Sigmoid Migration Accelerators

Cognos Report Metadata Extractor & Cognos Data Model Extractor

- · Extraction of Report Metadata
 - Report Names, Tables & Calculations used
- · Extraction of Data Model Metadata
 - Namespaces, Tables, columns extraction
- GenAl to convert calculations into DAX queries

Business Layer Creation via Python Script

- Finalisation of Business layer tables
- Automated creation of business layer tables/views in CDW

PowerBI Formatting & Standardisation Accelerator

- Custom theme to automate the formatting of PowerBI reports
- Automated integration of static elements like headers, footers, logos, buttons on the reports

Impact

- Significant reduction in Human error while extracting Model data and metadata
- Report reconciliation; combine reports with same structure into a single dashboard
- 20-30%

- Faster Data Modelling for thetables
- Faster Business Layer Creation
- Connection and Reconfiguration of PowerBI dashboards with the Data warehouse
- 10-20%

- Automated formatting and design implementation on dashboards
- Sigmoid is the only vendor to aid this acceleration
- 10-20%

The accelerator helps to save 50-60% of time in migrating reports from Cognos to Power BI. Step 1 contributes 20-30%, Step 2: 10-20% and Step 3: 10-20% portion towards overall time saving while Migration



Our Delivery Approach

Based on our experience delivering large migration programs, we propose a traditional Planning phase followed by an Agile methodology in which scope is delivered in continuous releases, or Waves

Waterfall **Agile Delivery Discovery & Plan** Design & Build **Deploy & Support Initial Setup** Test Team Onboarding Create report inventory Metadata extraction from Deployment plan and checklists Test plan, methodology and **Cubes/Framework Managers** approach Categorise reports based on Dashboard deployment in Prod · Infra, Cloud & Data Source complexity Metadata extraction from Develop test scenarios and Access Change Management reports test cases Conduct workshops to User Demos (Power Users) · Access creation prioritize reports Semantic/Business laver Conduct system integration creation test Monitor dashboards and support Finalize scope (Reports, data Project Kick-off Production defects models, processing and · Data connection to Power BI Performance baseline for data models and dashboards Dashboards) Stakeholder Identification Optimize performance, if · Data model creation in Power required Develop detailed project plan, Conduct user acceptance test Project Governance setup releases and milestones Project closure · Business logic transformation Defects management Define and align roles and into DAX responsibilities Dashboards & Reports Report Validation · Role based access to reports Data quality framework Data catalog, lineage and metadata management





Expertise in Power BI













BI Platform Expertise

Requirement Gathering

Data Understanding KPI

Identification

Wireframing

Visualization

Automation & maintenance

Power BI

Understand the pain points of end user and focus on present & future needs

Data Discovery and Transformation -Exploratory Analysis

Identifying & Defining KPIs

Storyboarding wrt final user, representation of final layout

Data Storytelling via Visuals

Data Pipeline Automation & Dashboard Support Sigmoid is also performing 3 migrations to PowerBI platform, supporting end-to-end from planning and data preparation to reconciliation of reports & dashboards



40+

Power BI Experts



30+

Fortune 500 firms



500+

Dashboards Delivered in FY '23



85% +

Repeat Customers for Visualization use cases



Exposure to Most Complex Data Sources and ETL/ELT requirements



Experience in working with all the major BI tools

Team Composition

- Management Consultants
- Data Analysts
- Visualization Experts
- Principals
- Developers
- Graphic Designers

Use Cases:

Financial KPI tracking platform for leadership reporting for different divisions Dashboards for driving marketing effectiveness for real time change in campaigns Dashboards for aide in merchandising with views for SOM, Category Top Sellers, Inventory Analysis

Dashboards for Sales Trend Analysis by Geographies, Brand, Product





Sigmoid's Engagement Models

Project Based

Staff Augmentation

Hybrid-Flexi Model/Data Labs/CoE



- Starts with consulting/scoping (2-3 weeks)
- Delivery Program Management
- · Interim review
- Success criteria met and IP handover
- Option to continue with product support
- · Fixed bid contract
- 3-5 months duration given complexity of problem

Benefits

- Cost effective
- KPI/SLA/Outcome driven
- Suitable for Fixed scope of work
- · Less overheads



- Understanding of skill requirements
- · Profile match and rate card
- · Onboarding and monthly billing
- Focused training based on client tech stack
- Project Management support
- 10% backup resources unbilled and trained

Benefits

- Scalability
- · Flexibility in resourcing
- · Ability to change/redefine scope



- Mix of project and staff augmentation engagements
- · Requirement gathering
- Requirement classification as project or staff augmentation
- Joint delivery plan
- Secure resources internally from Sigmoid and bill monthly
- · Dedicated PM, Engineering Managers
- Dedicated Management Consultant(s)
- Dedicated Team Leads and Product Owners

Benefits

- Cost effectiveness by focus on output
- Ability to change/redefine scope/Change requests
- Risk/Reward linked to KPI/SLA



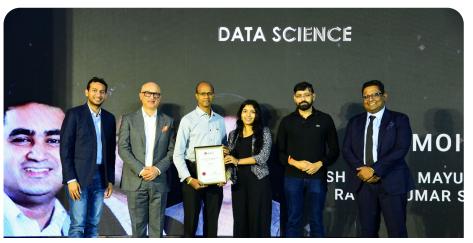
Thank you



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Website: www.sigmoid.com



'India Future Unicorn Award' in Data Science category by Hurun India

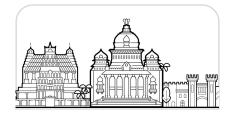
Global presence:



USA (NY, SF, Dallas, Chicago)



EU (Amsterdam, London)



India (Bengaluru)



LATAM (Lima)