Accion Labs

Data Governance Capabilities

Data Governance Related Services

Services

- DATA CATALOG
- DATA QUALITY & INTEGRITY
- DATA LINEAGE
- DATA DISCOVERY & SEARCH
- MASTER DATA MGMT.
- DATA PRIVACY
- DATA SECURITY
- DATA COLLABORATION

DATA GOVERNANCE ROADMAP

DATA RULES, POLICIES & PROCESSES

STAKEHOLDER MGMT.

Tools

- Alation
- Collibra
- Microsoft Purview
- atlan
- Informatica
- AWS Glue Catalog
- AWS Lake Formation
- GoodData
- ataccama

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Data Governance Approach

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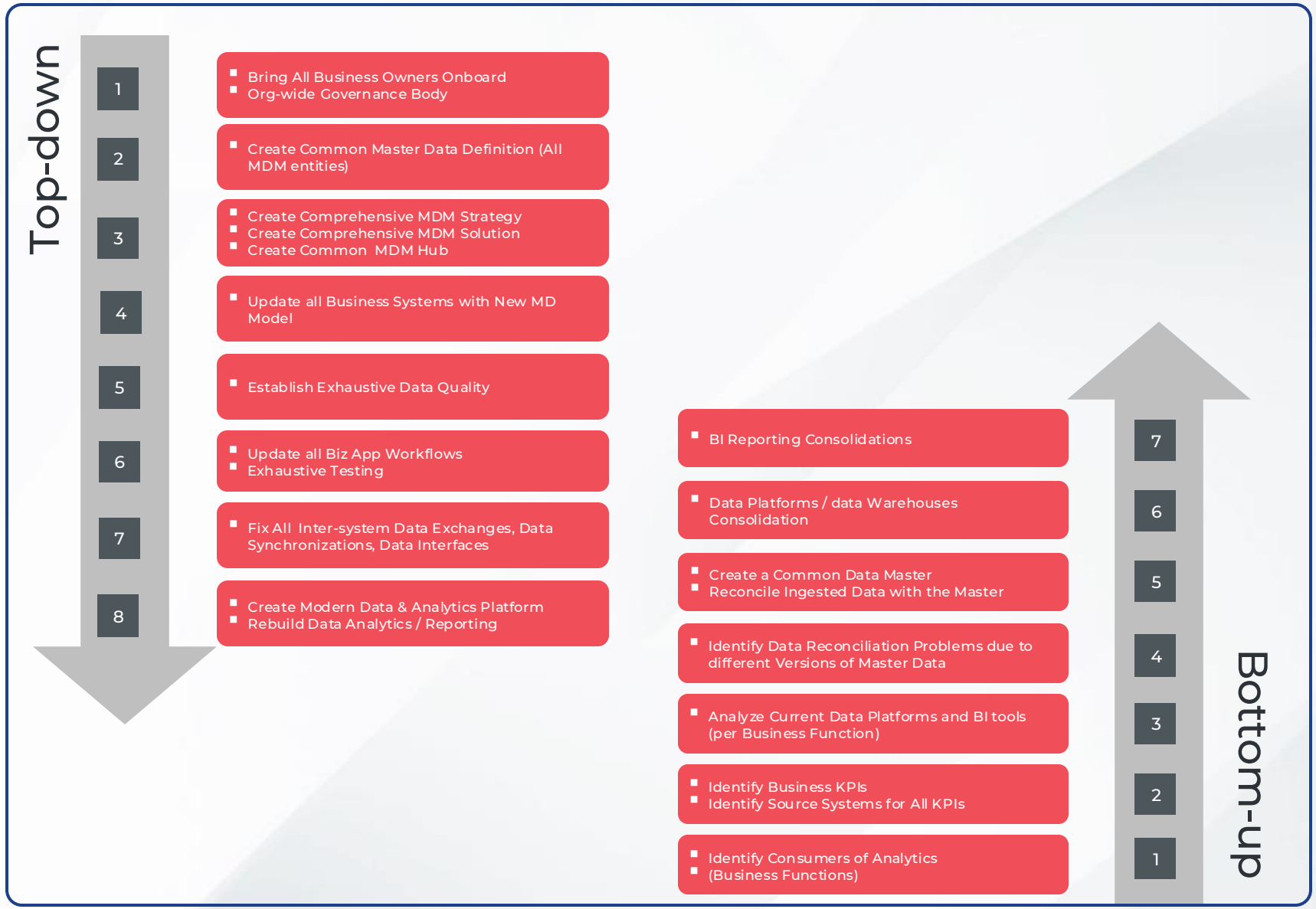
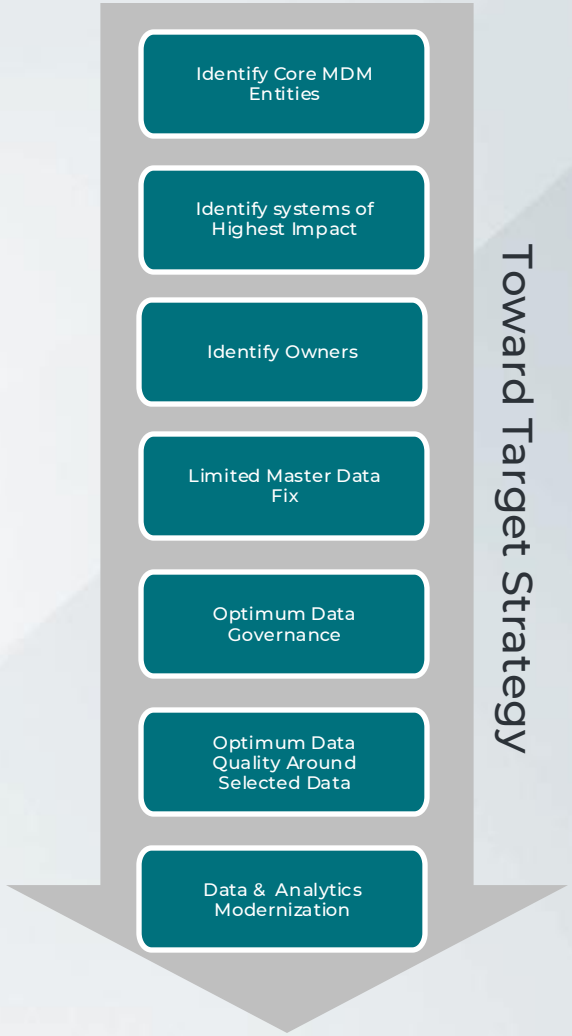
1. Select an Approach for Impementing Data Governance



Hybrid

Guided Top-down



Toward Target Strategy

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2. Assess Current Data Landscape

Evaluate the application ecosystem to find out the core landscape that deals with CUSTOMER and PRODUCT

Identify AREAS OF DATA RECONCILIATION for the core applications set, and the business impact of those reconciliations

Establish the "CORE APPLICATIONS" set - the set of applications and their dependencies which our assessment will focus on

Identify DATA EXCHANGE SCENARIOS and situation for exchange of Customer and Products data between applications

IDENTIFY IMPACTED APPLICATIONS AND PROCESSES impacted by Customers and Subscriptions

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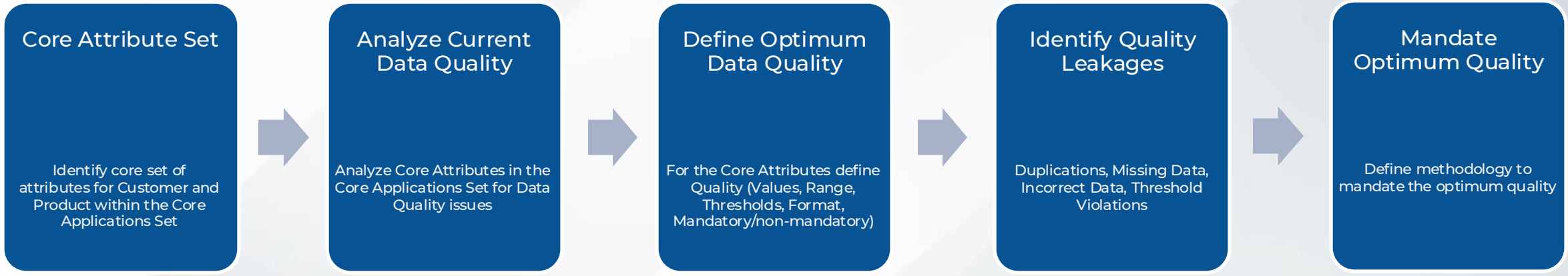
3. Identify Initial Problem statement (“Start Line”)

Track 1: Establishing core Governance group and framework

Track 2: Identifying Initial level of Data Quality & Data Governance



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4. Define road to reach Intermediate Maturity State

**** Establish a Minimal Governance framework**

- Roles and Responsibilities
- Define Business Glossary and taxonomy for the core set of attributes
- Rules related to who can change which attributes
- The change management associated with this process
- The communication related to impact on other applications/units of the change
- Establish and Publish the Minimum Quality for the core set of attributes

***** Recommendation of Measures to reach the mandatory data quality**

- Fixing Historical data quality
- Fixing data at rest based on mandatory quality levels
- Fixing data quality during data exchanged between applications - impose mandatory quality levels

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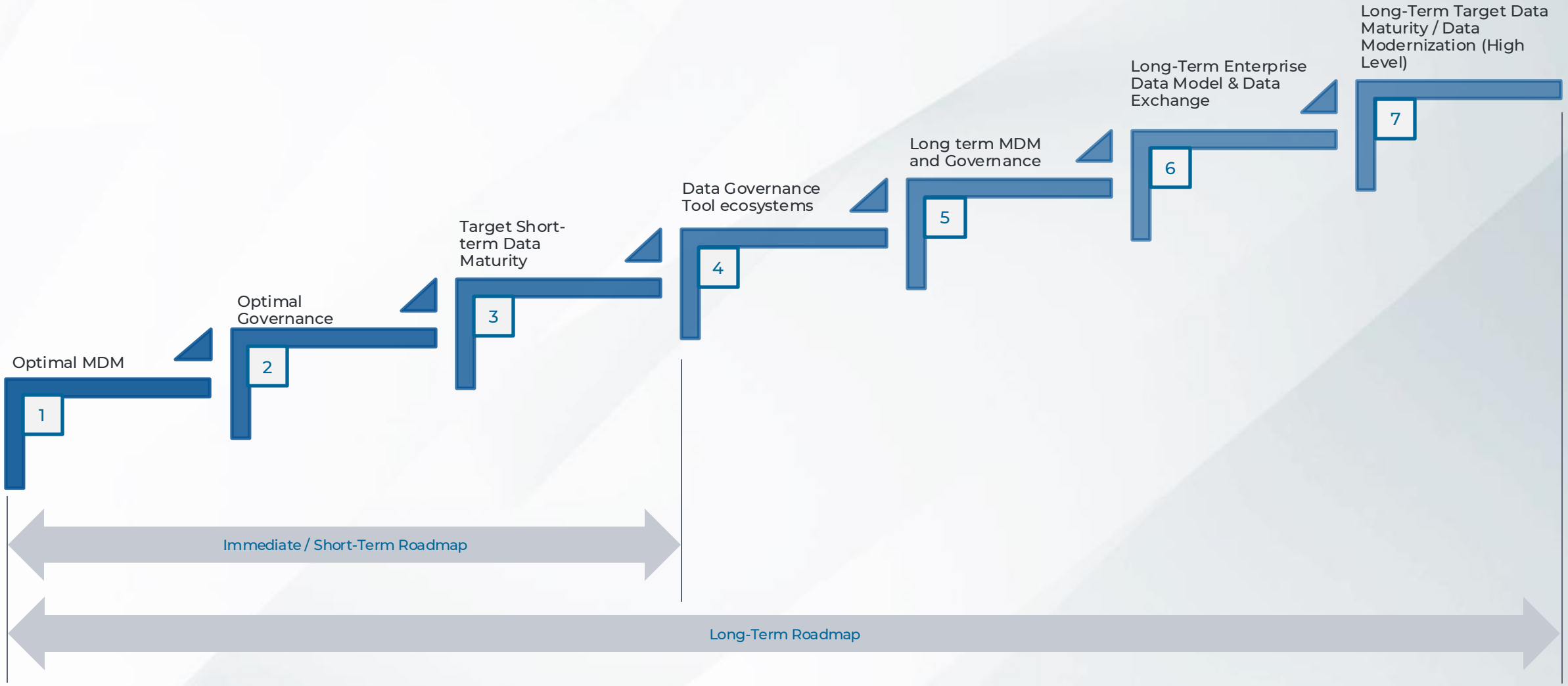
5. Reaching Target State (Target Data Landscape Maturity)



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Recap - The Data Landscape Maturity Journey

Current State	Define Optimum Target State	Achieve Optimum Target State	Final Target State
ASSESS	**DEFINE**	**ESTABLISH**	**EXTEND**
■ Current Master Data Model ■ Current Data Quality ■ Current Data Ownership and Autonomy ■ Current Data & Analytics Landscape	■ Optimum Master Data Model ■ Optimum Data Quality ■ Optimum Data Governance framework ■ Optimum Data & Analytics Landscape	■ Optimum Master Data Model ■ Optimum Data Quality ■ Optimum Data Governance framework ■ Optimum Data & Analytics Landscape	■ Full Master Data Model ■ Full Data Quality ■ Full Data Governance framework ■ Modernized Data & Analytics Landscape

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Data Governance Case Studies

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Consolidation of multiple OpCos (1/2)

Company

A multi-billion USD Loyalty management company managing Loyalty points for 6 Airlines (International + Domestic) from multiple countries.

Extended Loyalty program to 30+ Partner companies

Challenge

- Data Contracts with 6 OpCos and 30+ Partners (Partner system continuously expanding).
- **4** Disparate **Data systems** handled Data & Analytics requirement for Loyalty Mgmt. Company.
- Data Governance required common tools across different technologies-based data platforms.
- Significant collaboration required with OpCos on the upstream side and partners on the downstream end..

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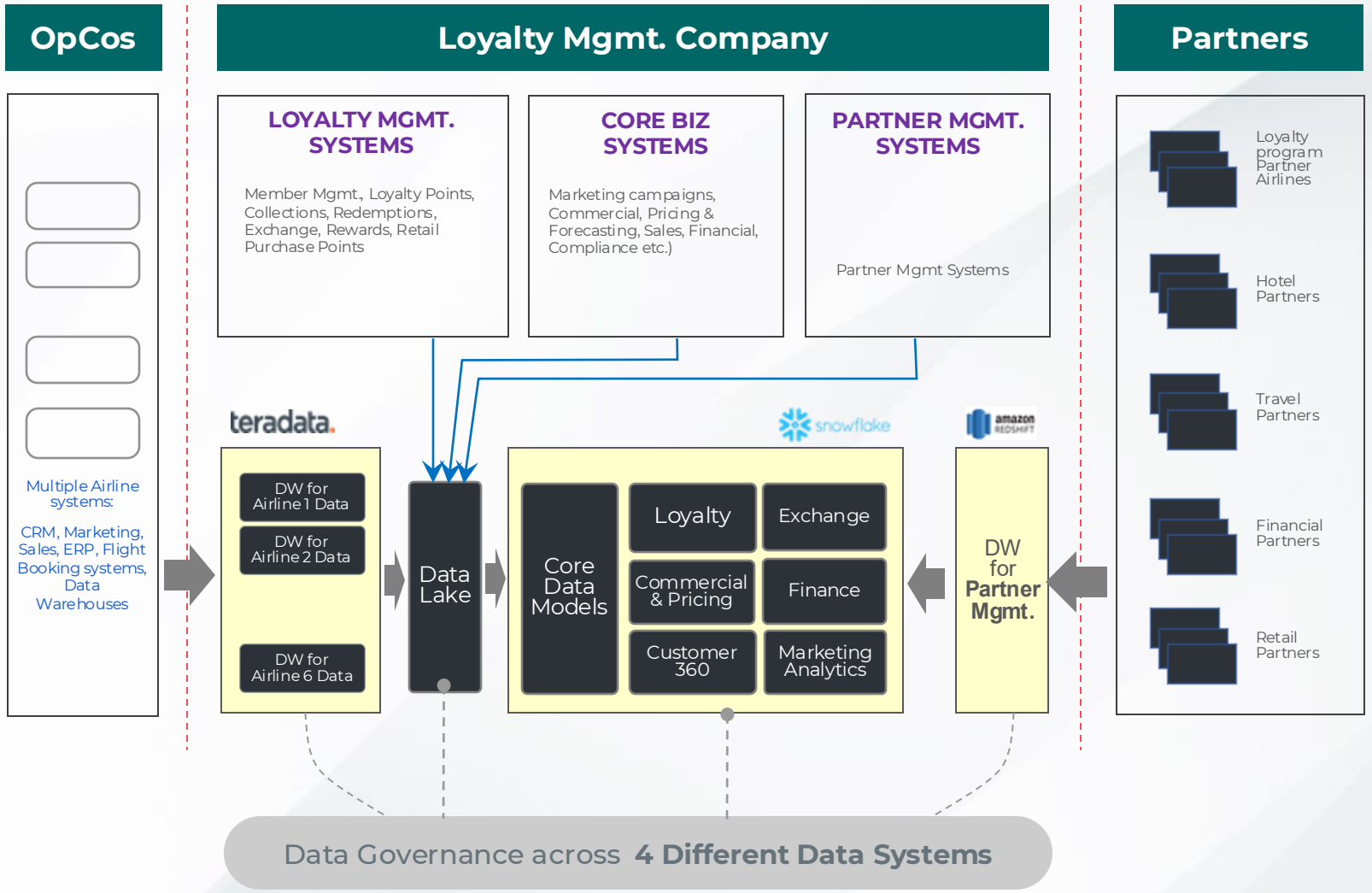
Consolidation of multiple OpCos (2/2)



Governance Solution

- ✓Data contracts identified from multiple data sources from 6 OpCos.
- ✓Data Lineage Metadata start-points identified from across 38 systems from 6 OpCos.
- ✓Governance implemented across **4 Data Systems / Platforms** - *Snowflake, Teradata, Amazon S3, Amazon Redshift*
- ✓**Colibra** used as Data Cataloging Tool
- ✓Lineage Metadata captured from data at each stage from 4 data systems
- ✓Common Metadata Schema created for the following:
  - Business Glossary
  - Data Dictionary
  - Data Classification

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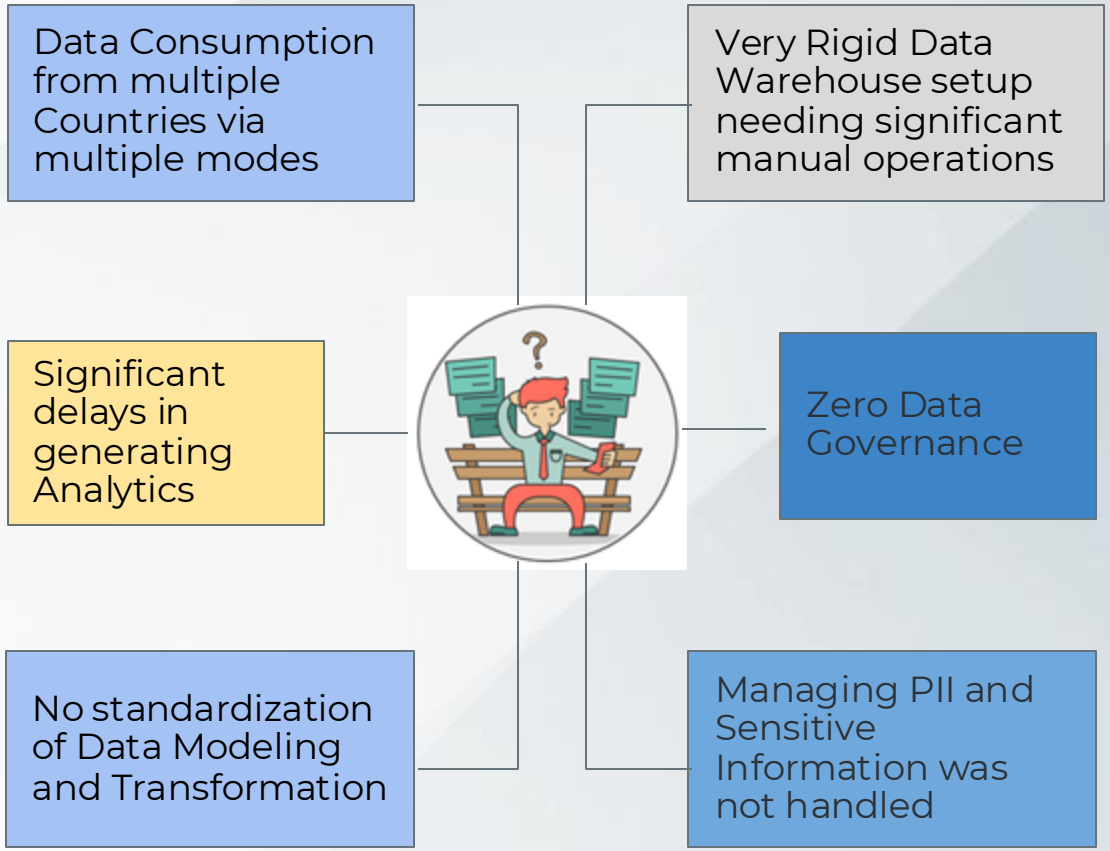
Data Governance at Scale: Health (1/2)

Company

Global Pop-Health Org serving 190+ member countries via 70 programs on 1500+ Health Indicators

Challenge

- Complexity in Data Ownership (since 70 programs owned the data)
- True Origin of Data was hard to map for Data Lineage
- Governance spanned to policies and rules for ‘Infrastructure’ and not just Data
- Challenging to create Business Glossary & Business Metadata as origin of data was hard to identify



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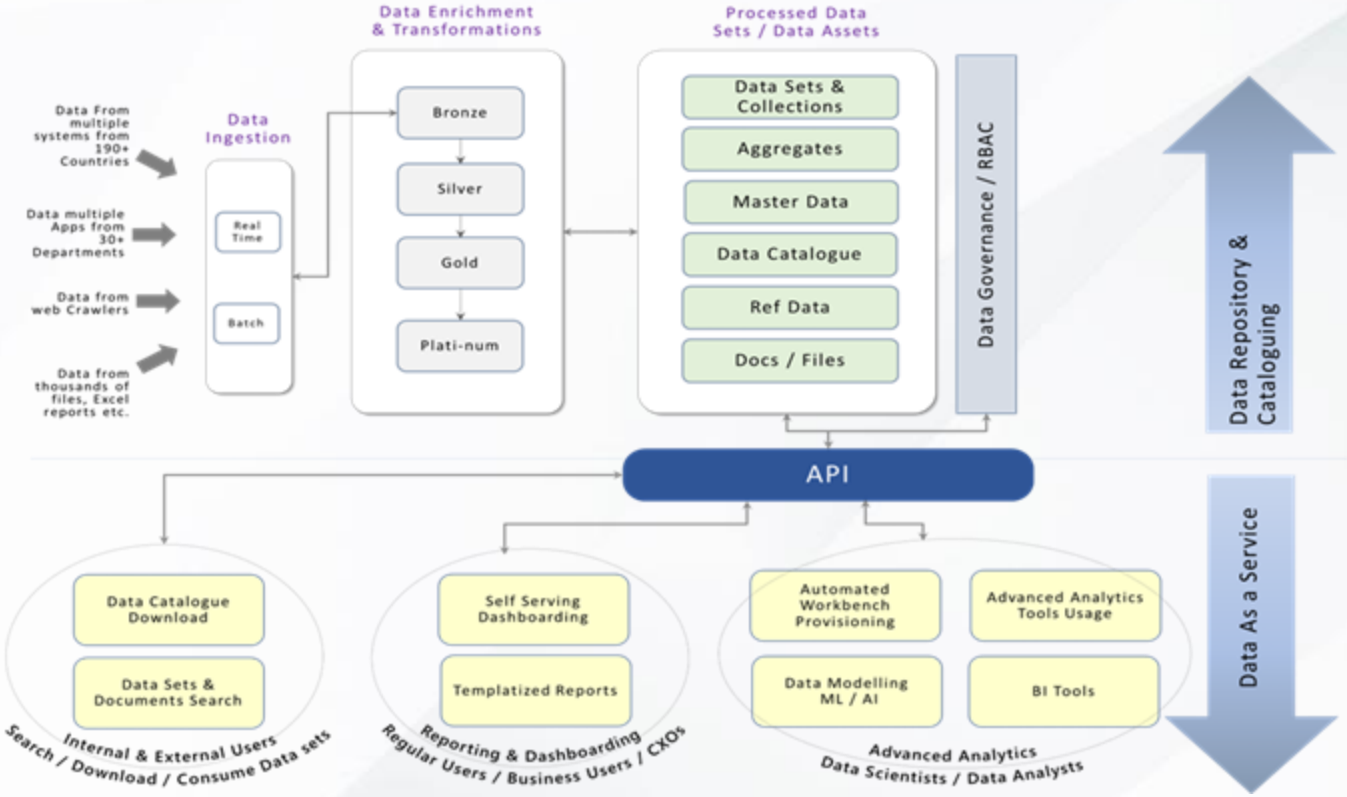
Data Governance at Scale: Health (2/2)

1500+	190+	70	5000	200+
Health Indicators	Countries	Programs	Users	Internal Users



Azure Data Factory · Azure SQL · Azure AD

Governance Solution

- ✓ Governance achieved using a mix of Tools
- ✓ Source of the Data (country the department of origin) was manually updated
- ✓ **Azure Purview** was used to:
  - Catalog all data along all stages
  - Data Lineage
  - Business Glossary (manually updated)
- ✓ Azure Active Directory was used for Identification and Management and RBAC
- ✓ Azure Catalog Tags were used to Tag Azure resources (infrastructure governance)
- ✓ Azure DW was engineered to handle Security of Sensitive (e.g., PII) data

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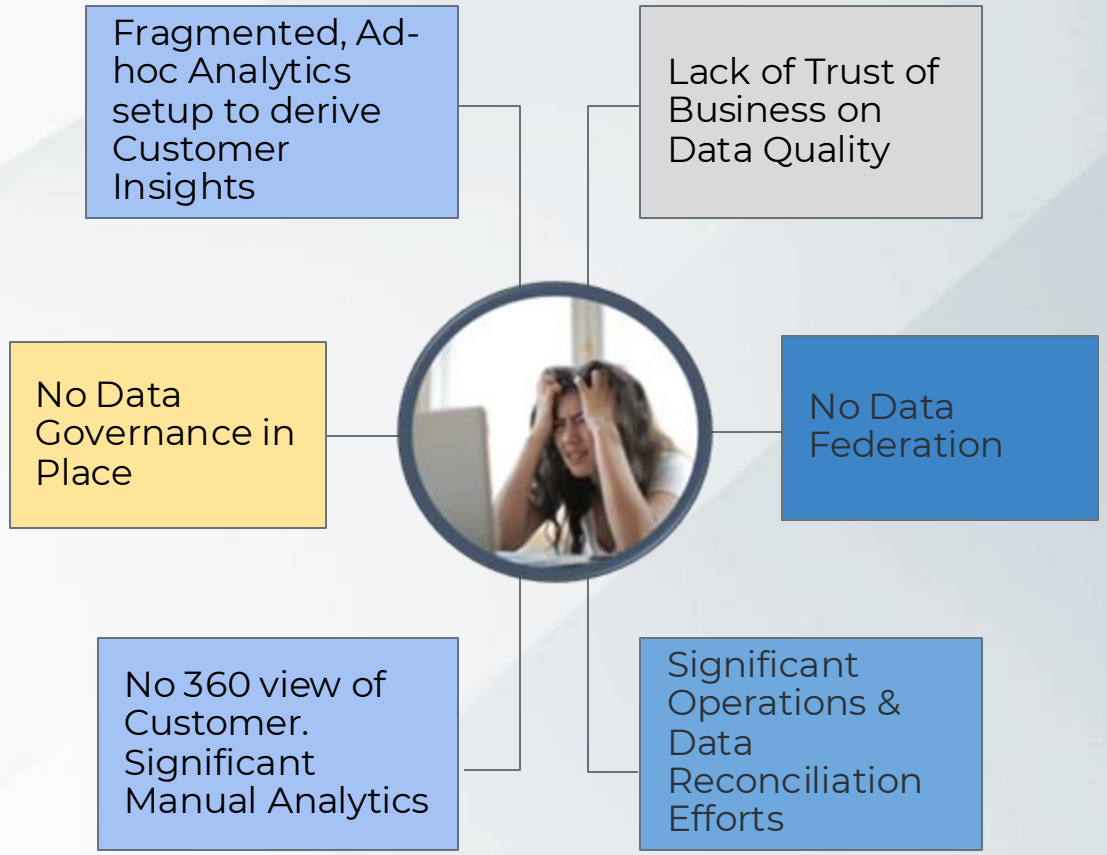
Governance for value and excellence (1/2)

Company

Global Medical Products and Technology leader in Advanced Wound Management and Ostomy Care, with 10,000+ workforce, 8 Manufacturing sites across the globe and operating in 100+ countries.

Challenge

- CDP (Customer Data Platform) without any data governance in place
- Insights from Customer (Patients, Doctors and Nurses) data spread across 100+ Customer-facing application (Web Portals, Mobile Apps, multiple CRM and Sales systems from multiple global locations).
- Lack of Data Lineage, Governance, Quality, Discoverability was becoming a major challenge from Regulatory & Compliance perspective.
- Huge amount of time and cost were spent in data collation and reconciliation



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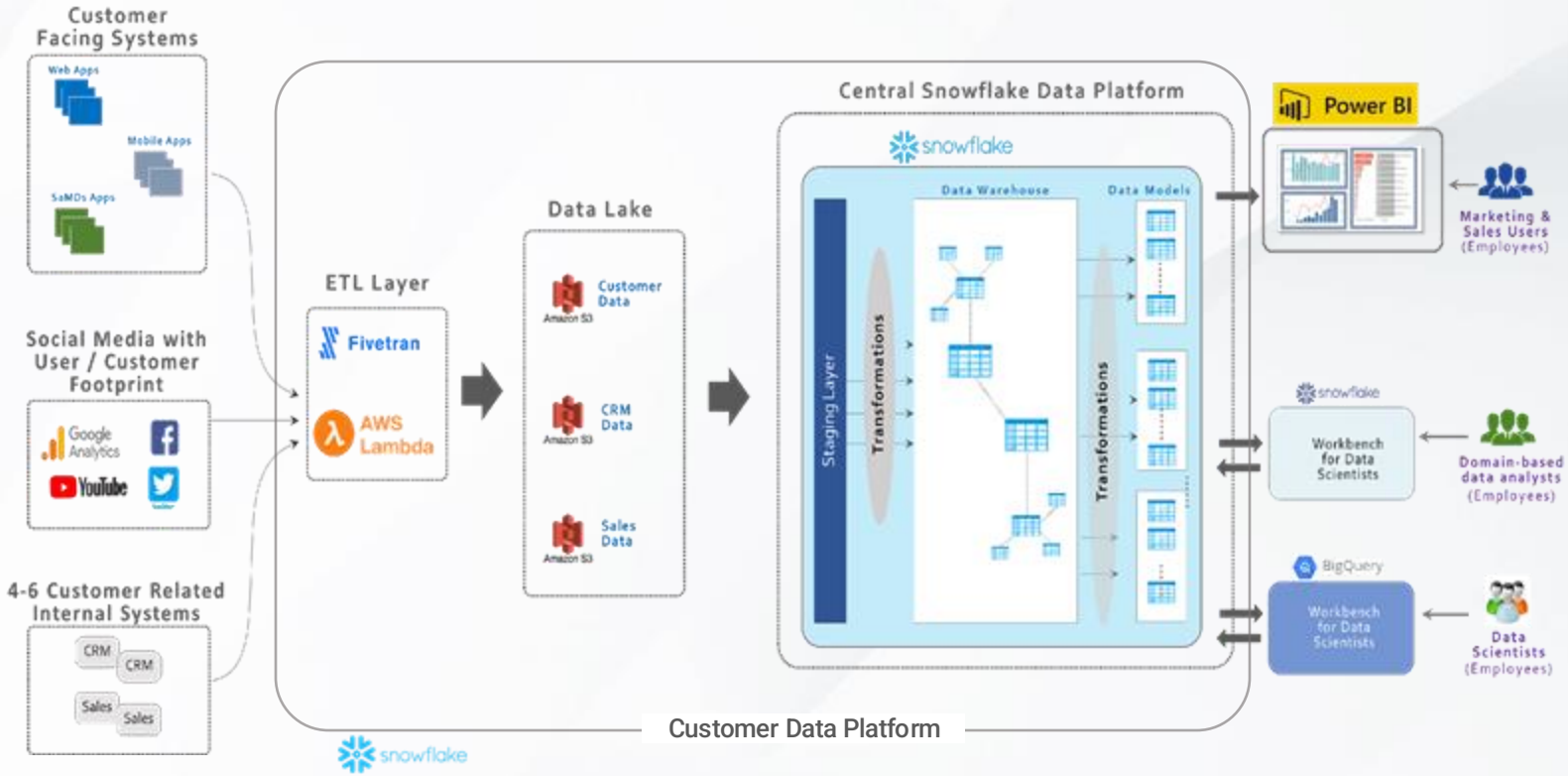
Governance for value and excellence (2/2)



Governance Solution

- ✓ Colibra used as Data Cataloguing Tool
- ✓ Following Governance Aspects were were implemented::
  - Data Catalog
  - Data Quality
  - Data Lineage
  - Data Collaboration
  - Data Privacy

snowflake dbt Fivetran okta

Amazon S3 AWS Lambda Azure Data Factory Collibra

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Thank You

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