

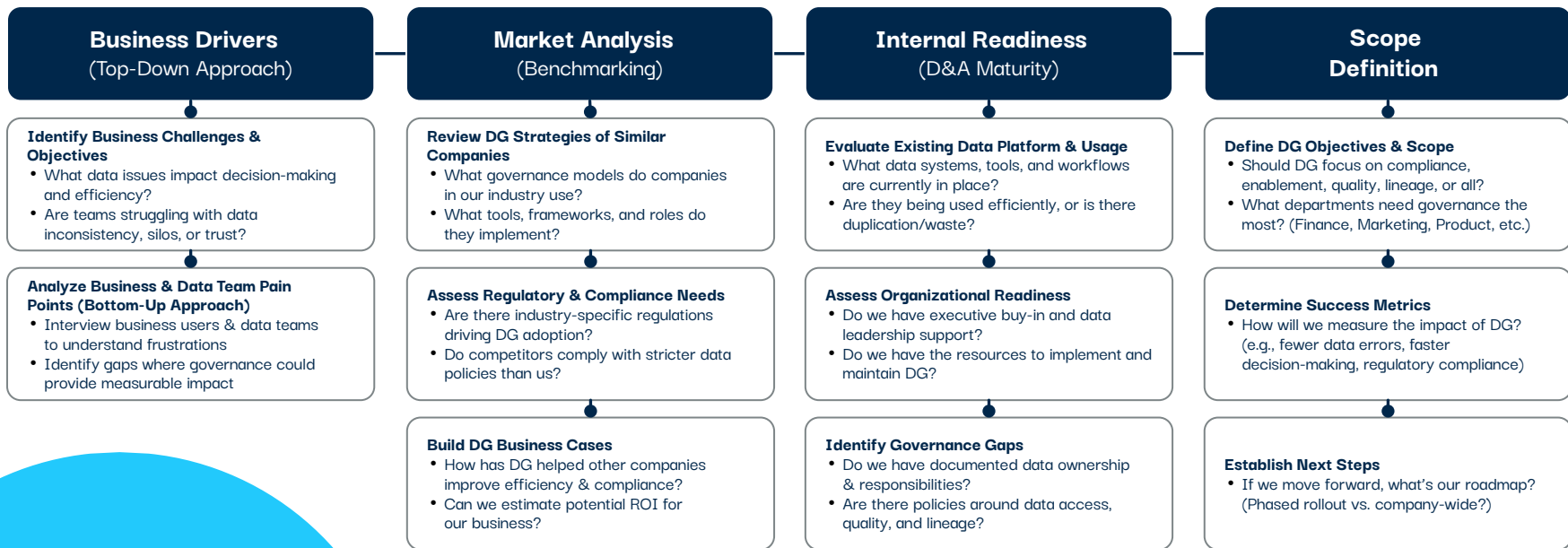


How to build your Data Governance framework?



Is a Data Governance Program Needed?

Assess business drivers, industry benchmarks, and internal readiness to determine the scope of DG.



If at least two areas indicate a strong need for DG, move to Step 2

Defining the DG Framework & Gaining Buy-In

Develop a structured DG approach, assign ownership, and assess investment feasibility.

DG Vision

Assembling a Custom “DG Solution / Framework”

Define the key objectives and structure of the Data Governance (DG) program based on business needs, industry standards, and organizational capabilities.

- What should our DG framework include?
- Who needs to be involved in shaping it?

Design

Phase 1

Designing the DG Solution

- Select Tools (Data Catalog, DQM Tools, etc.)
- Select Organizational Model (Centralized vs. Decentralized)

Roles

Phase 2

Defining Roles & Responsibilities

- Defining the Governance Leader (Who owns and drives the DG initiative?)
- Assembling a Team to Develop the Program Project

Evaluation

Phase 3

Evaluating Investment & Risks

- Financial Return-on-Investment Model (What cost savings or efficiency gains can DG bring?)
- Identification & Analysis of Major Barriers and Risks

Decision: Are we ready to move forward?

Two Approaches to Data Governance

Choose the right DG strategy based on your organization's needs.

Approach 1 – Practical DG

DG with Common Sense:

Small, high-value initiatives teams can implement themselves

Approach 2 – Targeted DG MVP

DG Minimum Viable Product:

Focused governance where pain points are highest and maturity allows quick wins

DG with Common Sense: A Flexible, Team-Led Approach

A set a data management projects with clear value that individual teams can implement as part their internal initiatives.

When to Use This Approach

- When data teams lack dedicated resources for governance
- When teams want quick results without complex policies
- When decentralization is the norm (e.g., separate business units)

Key Features

- **Simplicity:** Low effort, high value
- **Flexibility:** Individual teams drive their own initiatives
- **Autonomy:** Teams choose what aligns best with their needs

Examples

- Marketing defines consistent campaign tags for analytics
- Finance documents data ownership for reporting accuracy

DG Minimum Viable Product: Targeted, High-Impact Governance

A simplified initiative focused on the most “painful” areas within one “mature” domain.

When to Use This Approach

- When there is an urgent data issue (e.g., compliance risk, reporting errors)
- When at least one domain is mature enough for governance to succeed
- When leadership wants proof of value before scaling DG

Key Features

- **Pain-Driven:** T targets the most critical business pain points first
- **Scoped & Focused:** One domain, one problem, one clear win
- **Scalable:** Once proven, this model can expand across teams

Examples

- Finance applies DG to ensure accurate revenue reporting
- Data teams implement lineage tracking for critical BI reports

Laying the Foundation for a Scalable DG Program

Key Milestones

Establish a Data Office

Build the core team responsible for driving and overseeing the DG program



Adopt the DG Policy

Set the principles, guidelines, and compliance rules to formalize governance

Develop a Project Plan

Define clear timelines (1, 2, and 3 years) for rolling out the DG framework



Create a Detailed Roadmap

Outline the step-by-step implementation plan for DG initiatives

Data Governance Program: Launched & Ready to Roll

The foundation is set—now let's focus on execution.

Executing DG: Prioritizing the Most Critical Data Initiatives

01.

Identify Key Data

Domains Pinpoint the most critical data areas that require governance first (e.g., Finance, Customer, Product)

02.

Define & Automate Data Classification Rules

Set criteria for identifying critical data and automate classification for consistency

03.

Assign Roles & Responsibilities

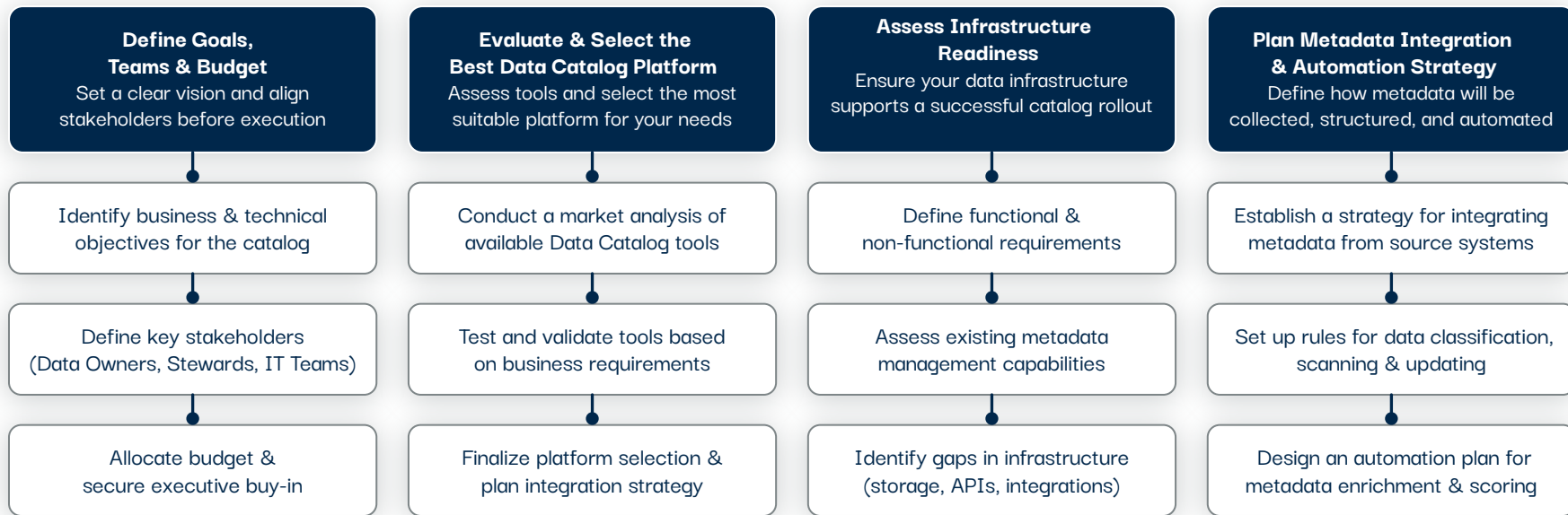
Establish clear ownership by defining Domain Data Owners, Data Stewards, and Custodians

The Building Blocks for Scalable & Sustainable DG Execution

Step-by-Step Data Catalog Implementation Roadmap

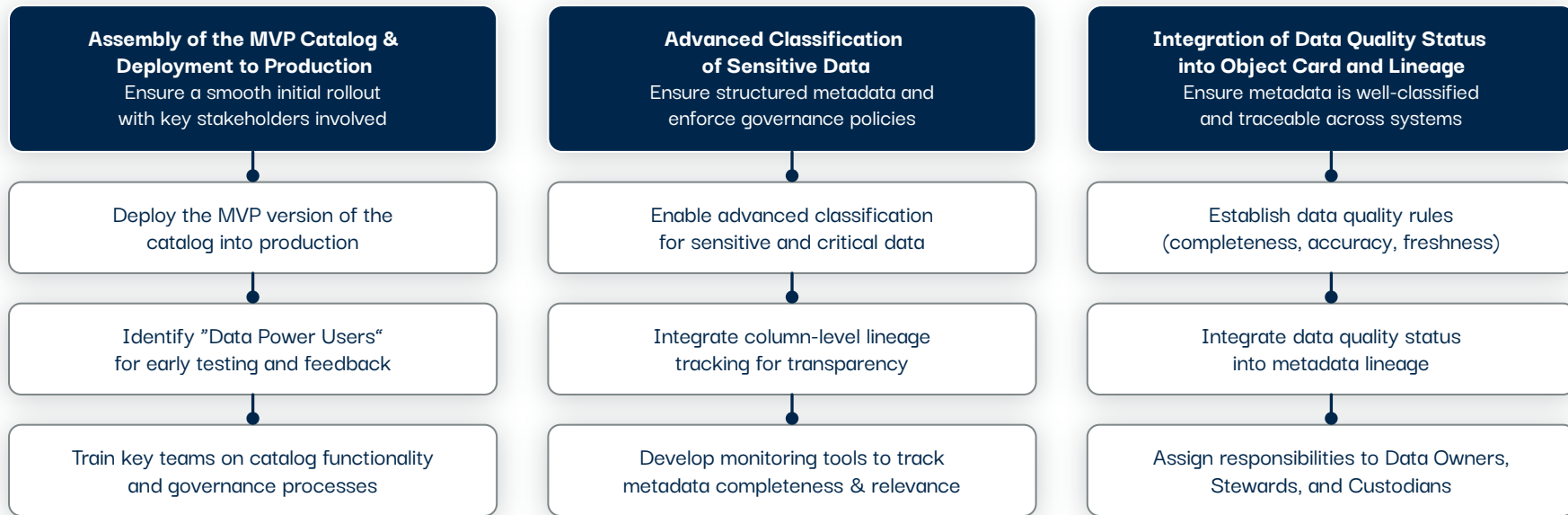
Step 1: Laying the Foundation for Data Catalog Implementation

Before launching the Data Catalog, define clear goals, select the right tools, & plan integration strategy.



Step 2: Deploying the MVP Data Catalog & Defining Metadata Standards

With the foundation set, deploy the MVP catalog, establish metadata standards, & assign governance roles.



Step 1

Step 2

Step 3

Step 4

Step 5

Step 3: Scaling & Automating Metadata Management

With the MVP deployed, the focus shifts to automation, classification, & metadata governance.

Advanced Column-Level Lineage

Improve metadata visibility and establish a lineage tracking system

Implement column-level data lineage for traceability

Automate lineage capture from key source systems

Establish reporting mechanisms for lineage gaps and anomalies

Integration of Data Source System Schemas & Business Glossary

Ensure alignment between business terms, data assets, and governance rules

Link business glossary terms to technical metadata

Define data contracts between data producers and consumers

Enforce standard naming conventions across domains

Automation of Documentation & Metadata Quality Monitoring

Ensure governance is sustainable by automating key processes

Use metadata scoring to track data quality over time

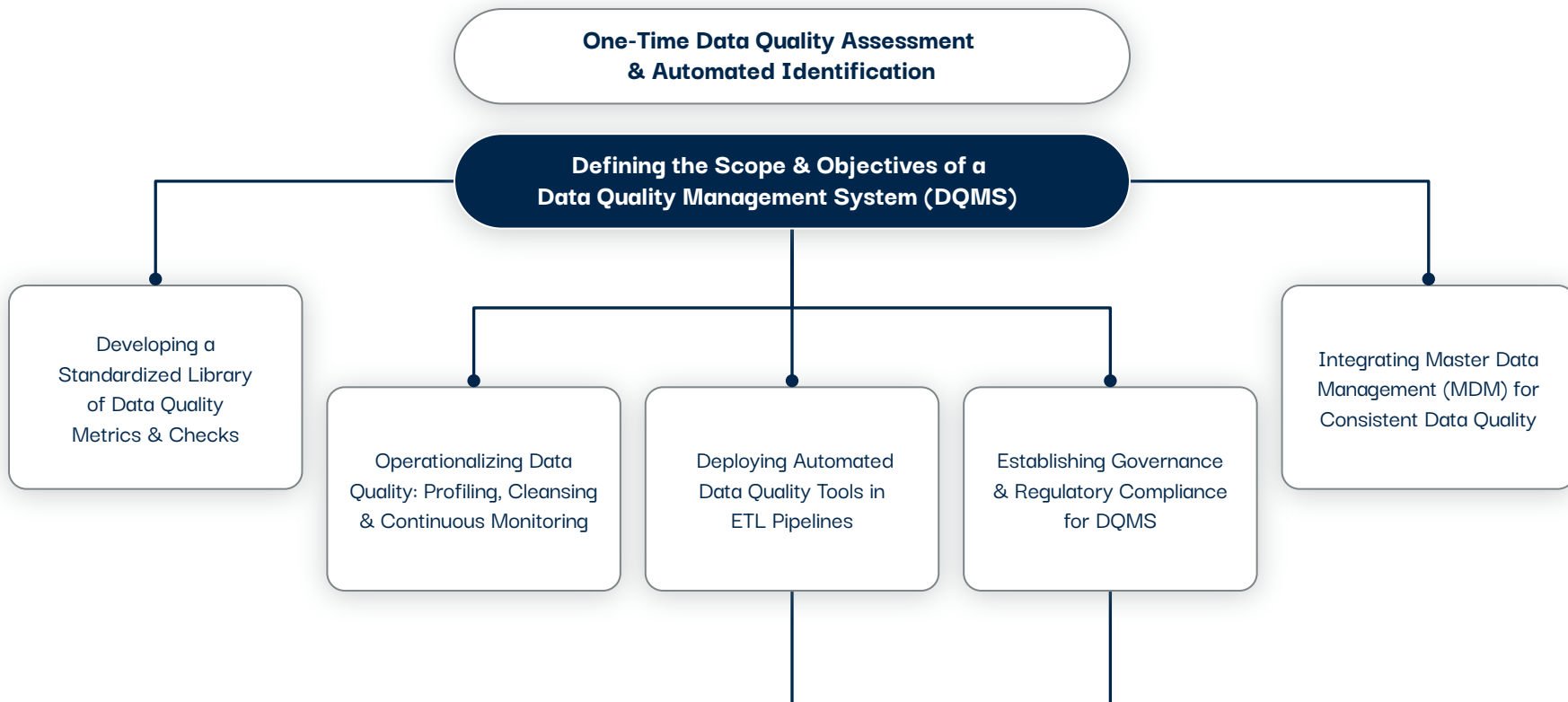
Automate documentation updates through CICD processes

Develop dashboards for Data Stewards to monitor metadata health

The Building Blocks for Scalable & Sustainable DG Execution

Data Quality Management System (DQMS)

From assessment to governance, DQMS framework ensures continuous data quality monitoring.



Step 1

Step 2

Step 3

Step 4

Step 5

Developing
Metadata-Driven Data
Quality Solutions for
Global Checks

**Embedding Automated
Data Quality Checks
into Data Pipelines**

Implementing
Data Contracts to
Ensure Accountability
Between Systems

Improving
Domain-Level Data
Quality Monitoring
& Coordination

Making Data Quality
StatUSES Visible &
Actionable in the
Data Catalog

Data Operations

The 6 Pillars of a Scalable & Automated Data Operations Framework

1

Data Platform Architecture Design / Audit

Active Participants in the Deployment
of the Data Catalog and DQ Tooling

2

Process Automation: ETL/ELT, Orchestration

Automated Data Testing

3

CI/CD for Data – Continuous
Integration, Deployment, and Delivery

Version Control System –
(Git, GitHub, Azure DevOps, etc.)

4

Data Infrastructure Organization
– Flexible Management, Microservice
Architecture, and Containerization

5

Data Monitoring and Observability
– Monitoring of Process Performance

Performance Monitoring
Logging and Alerts for Failures and Errors

6

Organization of Team Interaction –
Between Data Engineers, Analytics,
and Developers

Certified Data Management & Data Products

Establishing governance, certification workflows, & structured data products to ensure data reliability.

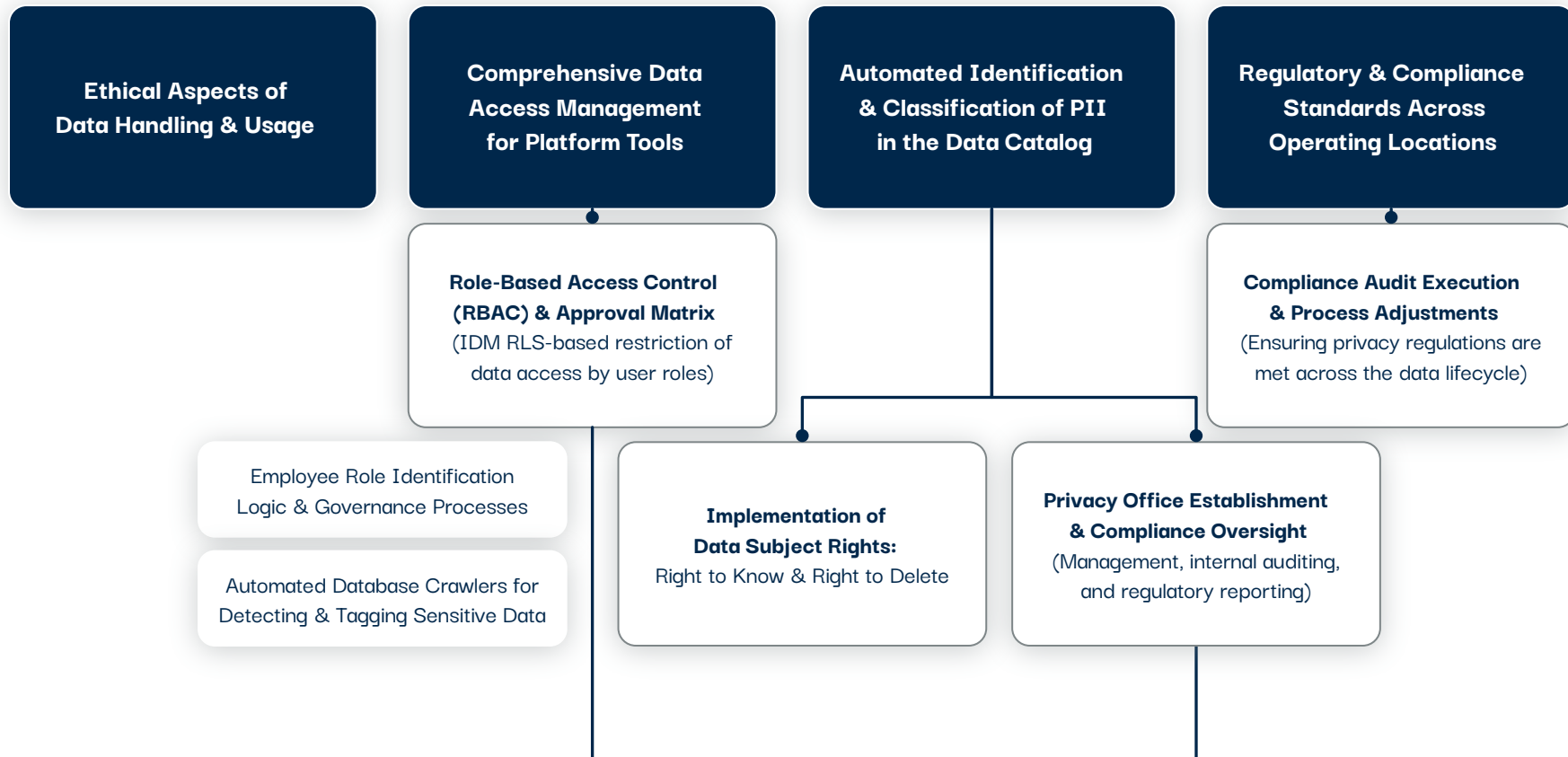
Data Certification Process

- **Certification Criteria for Data** (Quality, completeness, security, ownership)
- **Certification Workflow** (Data audits, business requirements, certification labels)
- **Automated Certification Processes** (Integrated into Data Catalog & Stewardship tools)
- **Data Product Framework**
 - **Dashboard for Monitoring Certifications** (Track status & ownership)
 - **Certified Data Visibility** (Display certification in lineage & object profiles)
- **Integration with Master Data Management (MDM)**

Certified Data Products & Business Use Cases

- **Selecting High-Value Data for Certification**
(Prioritize key datasets)
- **Business Cases for Using Certified Data**
- **Test & Launch Certified Data Products**
(Ensure usability before scaling)
- **Training for Domain Teams**
(Enable data product ownership)
- **Cross-Usage of Master Data Objects**
(Improve reusability across teams)

Data Privacy Compliance



Step 1

Step 2

Step 3

Step 4

Step 5

**Role-Based Data Access
Control & Restriction**

(Ensuring data access is aligned
with user roles & permissions)

Training & Awareness

Security & Privacy Awareness Training

Recognizing Phishing Attacks
& Cyber Threats

Periodic Security Audits &
Compliance Checks

Data Risk Management

Identifying & Mitigating Data Security Risks

Vulnerability Scanning &
Threat Detection

Data Leakage Prevention &
Response Measures

Risk-Based Data Security
Procedures & Assessments

Minimizing Data Collection
to Reduce Exposure

Data Literacy Program

Data & Analytics Competency Framework

Defining skill levels & required competencies for all key roles

- Developing a Standardized Data & Analytics Competency Matrix
- Mapping Required Data Skills to Specific Job Roles

Modern & Engaging Learning System

Blended learning approach to scale data literacy across teams

- Comprehensive Onboarding & Mandatory Training
- Group Learning, Self-Paced Modules & Certification Paths
- Gamification & Community-Driven Engagement (Skill Belts, Marathons, etc.)

Hiring & Integrating Data-Literate Talent

Ensuring recruitment aligns with data-driven culture

- Embedding Data Literacy Criteria into Hiring & Onboarding
- Aligning Training Programs with Talent Development Strategy

Step 1

Step 2

Step 3

Step 4

Step 5

Development of the DG Framework in the company

Operational Model for Managing the DG Program



Communication & Awareness

Project Communication & Marketing (Portal, newsletters, and engagement tools)



Performance Monitoring

Operational Monitoring Tools (Track ongoing projects & objectives)



Role Definition & Assignment

Classification & Distribution of Roles

Data Stewardship Program

- **Defining & Training Data Stewards**
Clarify responsibilities & document roles
- **Automating Stewardship**
Processes: Regular audits via the data catalog
- **Integrating Stewards into DG/DQ**
Projects: Scale into a Data Culture Program

CDO Office & Governance

- **Expanding Governance Roles as Needed**
(Adjust based on adoption & growth)

Finalizing & Scaling Your DG Framework



Regulatory Compliance & Documentation System

(Developing & maintaining regulatory frameworks for data governance)

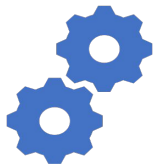


Refining & Optimizing DG Processes

- **Shifting to Active, Non-Intrusive DG:**
Embed governance into daily workflows, automate manual processes
 - **Aligning DG with Broader Data & Analytics Initiatives:**
Integrate with BI, ETL, Data Mesh, and strategic goals
 - **Scaling DG Through a Decentralized, Community-Led Model**
- **Refining the Roadmap & Eliminating Inefficiencies:**
Identify blockers, improve execution, and optimize team capacity

Evaluating the Cost-Benefit Impact of the DG Program

1



Measuring DG Program Success

Tracking Data
Governance Metrics
& Scorecards

2



Evaluating Financial Efficiency

Assessing DG
Program ROI &
Cost Optimization

3



Adoption & Product Efficiency

Measuring Data
Catalog Adoption &
Usage Impact

4



Maturity & Strategic Growth

Assessing DG
Maturity & Long-
Term Scalability

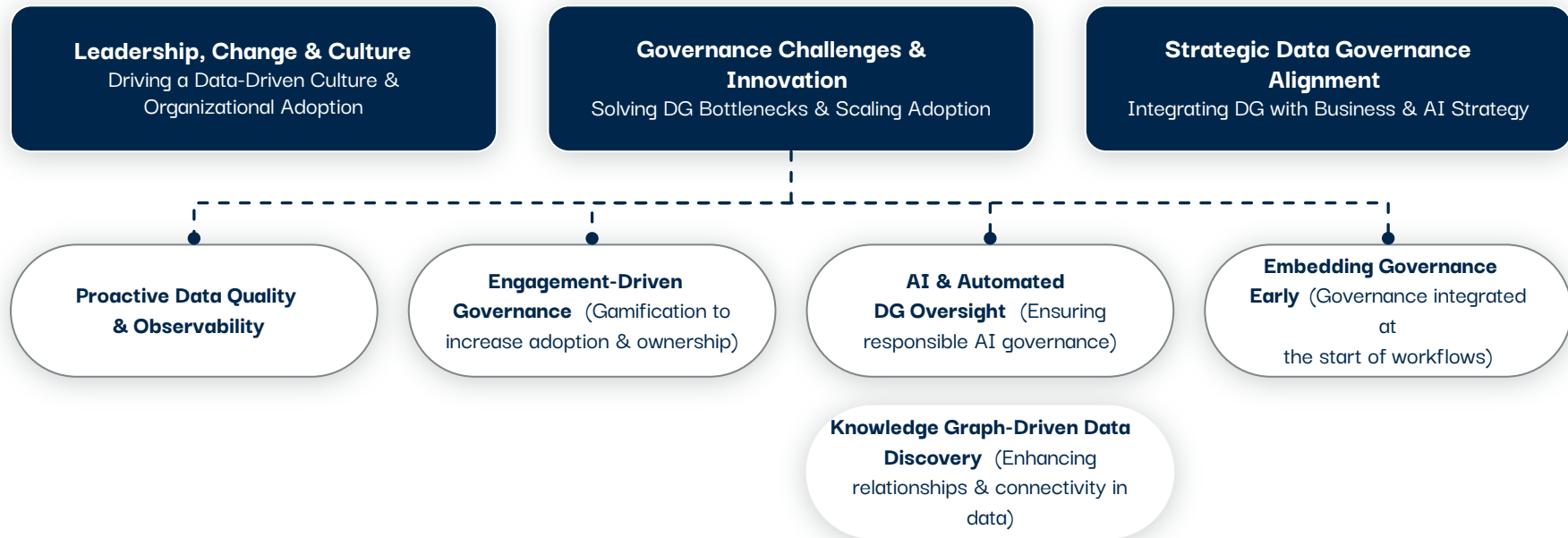
5



Monetization & Value Creation

Developing Data
Monetization & Cost
Management Strategies

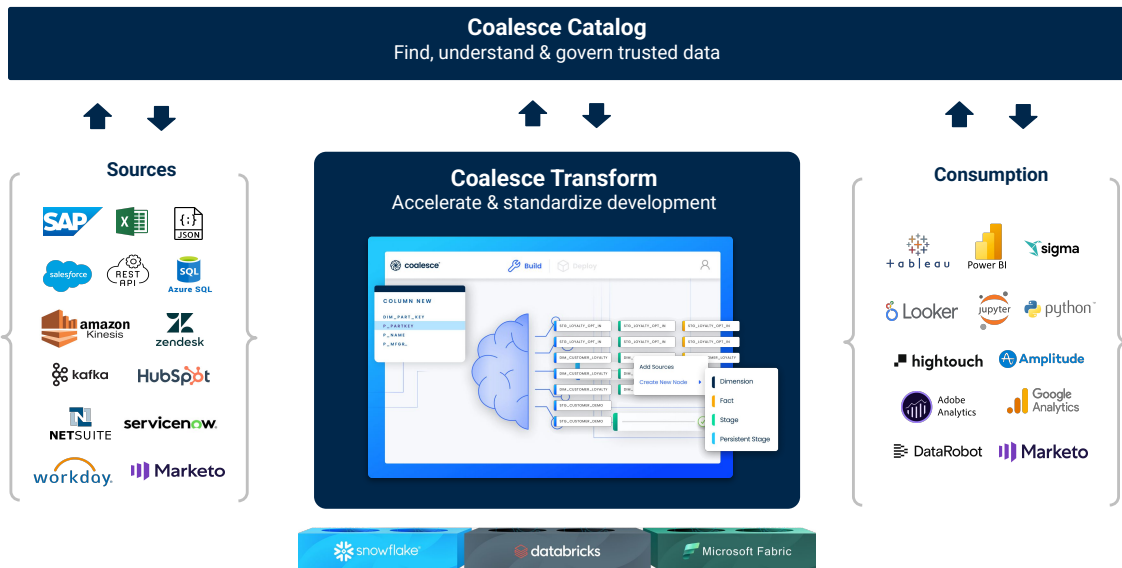
Launch Initiatives to Further Develop the DG Program



About Coalesce

Coalesce is a **data governance & engineering platform**. Recognised by Gartner as a Metadata Management visionary, it enables data teams to work with data in the most collaborative, scalable and trusted way.

Coalesce platform has multiple modules. Coalesce Transform is helping data teams build data pipelines at scale, faster. Coalesce Catalog brings visibility & trust across the data ecosystem with its data governance capabilities.



The world's best data teams run on Coalesce



Thank you !