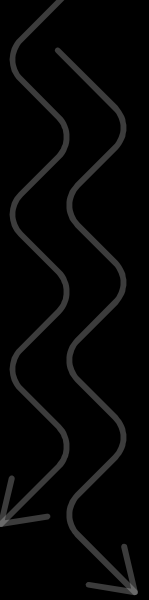


How process orchestration improved data governance at Sam's Club

**CAMUNDA
CON 2024**

Presented by Wilson Gaitan
Director Data Governance, Sam's Club



Sam's Club Company Facts



Sam's Club is a membership club that is pioneering the retail experience, focused on providing its members exclusive access to a combination of value, convenience and modern omnichannel shopping experiences along with exceptional service delivered with a human touch. Unlike traditional retail, the club model is a unique business model, focused on limited SKUs/curated items, driving membership and member value.

Sam's Club builds experiences that define the future of shopping, outpacing its competitors with market-leading technologies and offers its members access to the fullest range of omnichannel retail experiences with the convenience of online combined with the delight of shopping in its clubs.

With more than 40 years of innovating the category, Sam's Club is on an accelerated growth trajectory with the bold ambition to become the club channel lead.



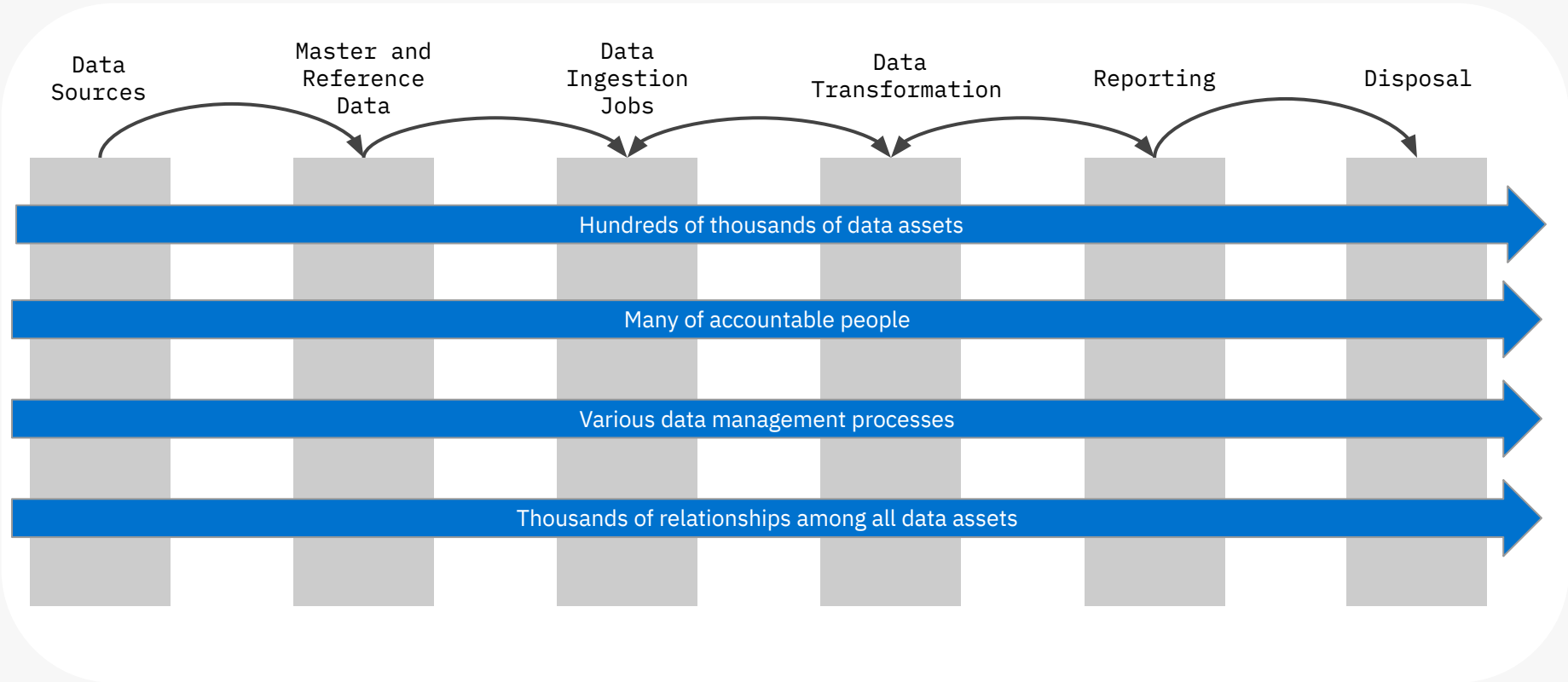
Explaining the challenge in simple terms

I am a new finance analyst, and I need to write a report to provide data insights on Sales per member requested by a consulting company:

- I need to look for member data; who owns that data; who is the SME?
- Is this data highly sensitive for my company?
- Am I authorized to share the data?
- This is a complex build, so I need to engage engineers, a modeler etc.
- Are there already existing reports for this?
- Are there multiple definitions of Sales?
- I found multiple data sources. What is the authoritative source for the right outcome?
- Where do I find that data; where do I start?
- What about the quality of this data?

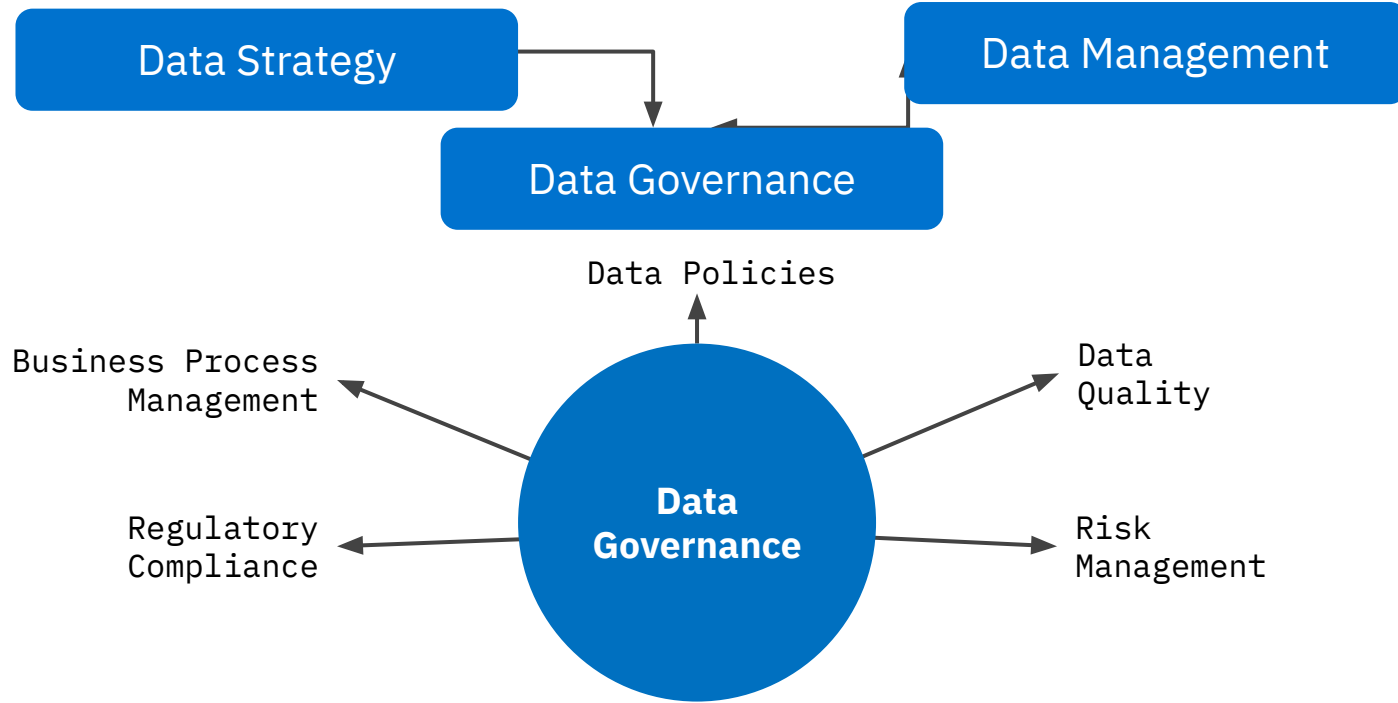
Applying consistency - minimizing tribal knowledge

Understanding Complexity in the Data World



Data flows adding complexity to the process

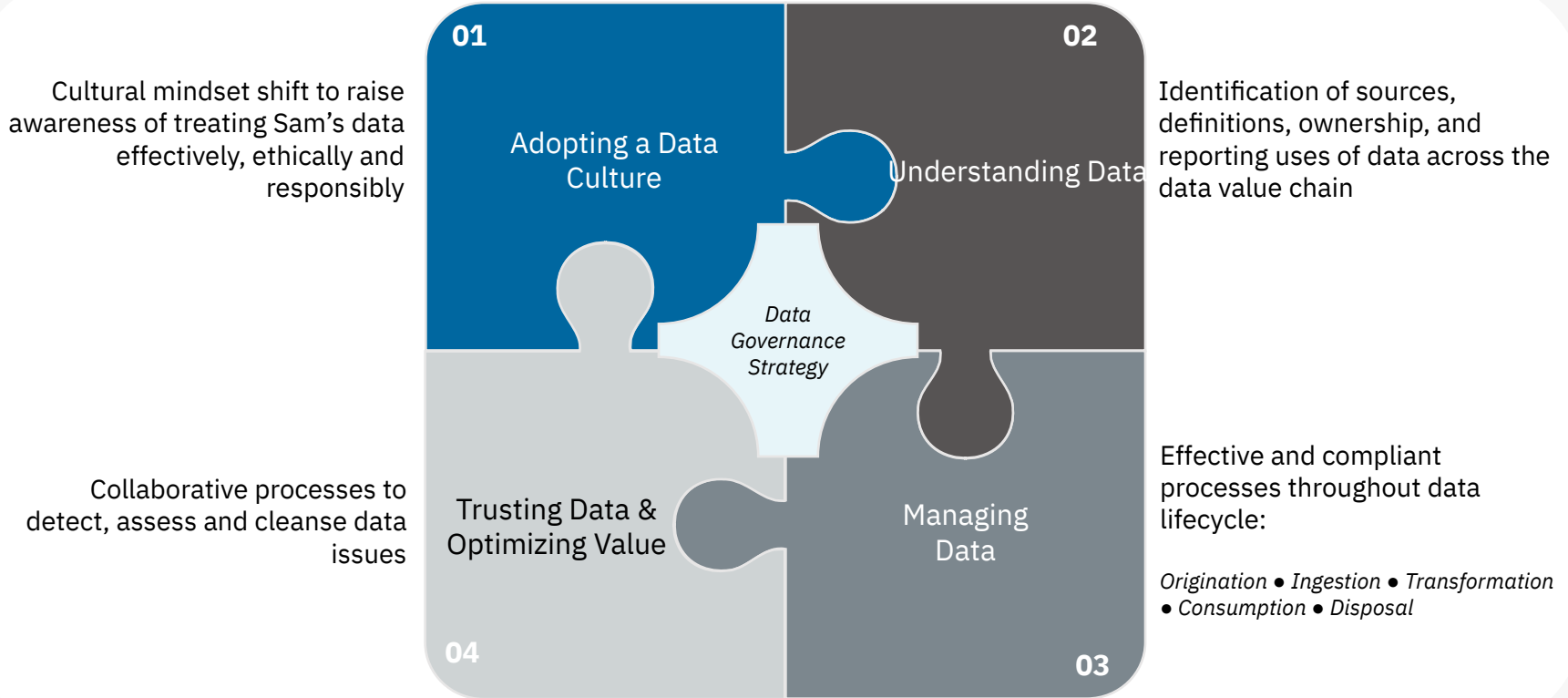
Data Concepts



Must support processes based on global footprint

Data is a valuable Asset

Data Governance Goals



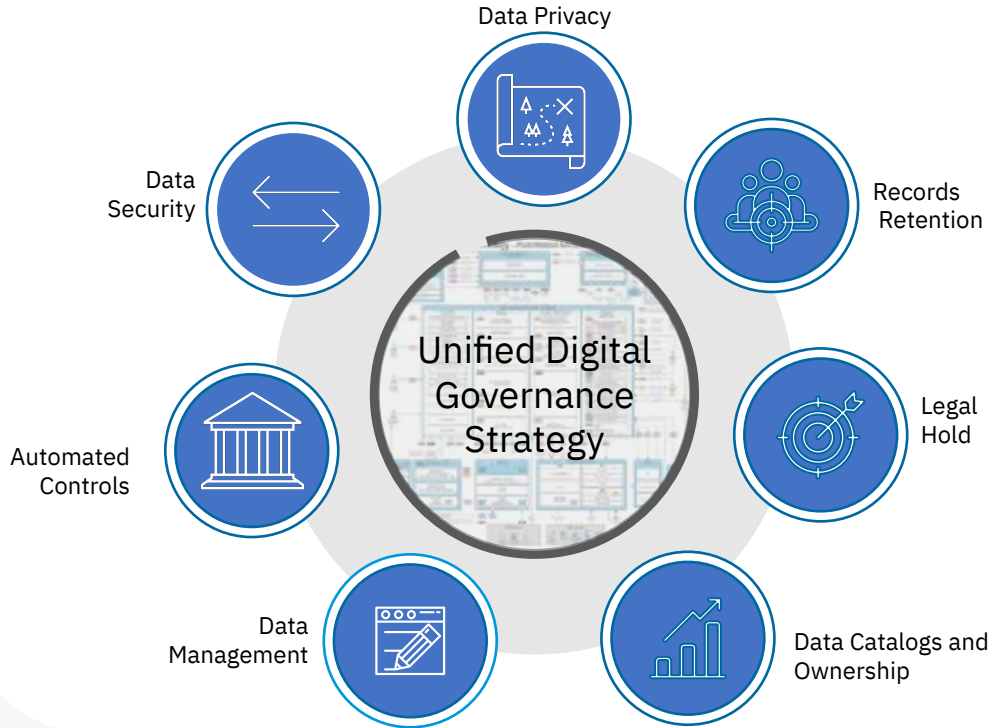
Embracing the process driven culture, supports the adoption of data culture

Unified Digital Governance Strategy



Unified Digital Strategy - Governance & Control

Organizational Goals



- Customer First
- Expect Excellence
- One Global Team
- Risk-Spotting Mindset
- Digital Acceleration
- One Stop Shop

Integrated Digital Governance ecosystem and multiple processes

How can we make Data Governance seamless and uneventful?



By embedding Data Governance tasks into our day-to-day data processes

- Data Governance is a complex and rigorous process that requires seamless integration of policy requirements throughout the entire life cycle of data assets.
- The key to success lies in having a strong process orchestration capability. Process orchestration plays a crucial role in coordinating and managing the numerous workflows and tasks involved in Data Governance.
- By leveraging this capability, organizations can effectively govern their data assets, ensuring compliance, quality, and transparency throughout the entire data life cycle.

Proactive, Sustainable and Evergreen

Data Governance Core Components



Data Governance is focused on executing three main workstreams

Processes



Policies & Standards

Create policies, standards, and procedures to govern how we manage and use data

Documents

- Enterprise Data Governance
- Roles & Responsibilities
- Data Classification
- Data Sharing
- Data Product
- Data Access
- Data De-Identification
- Data Quality
- Data Retention

People



Roles & Responsibilities

Clearly define roles across business, technology, Global Data, Legal, Privacy, and more

Roles

- Business Data Owner
- Business Data Steward
- Data Modeler
- Data Architect
- Data Engineer
- Business SMEs

Technology

Provide tools to build a global data catalog, manage access, data quality, and more

Capabilities

- Data Definitions
- Metadata Management
- Data Quality Management
- Data Discovery & Access
- Reconciliation and Issue Remediation
- Security & Privacy
- Reference Data Management
- Reporting, Dashboards, and Alerting

Managing People, Process and Technology components

Data Governance Process Orchestration

Processes



Data Governance is focused on executing three main workstreams

[One Stop Shop & Process Orchestrator]

Processes

P2P
Person to Person
Processes

People

P2S
Person to System
Process Orchestration

S2S
System to System
Processes

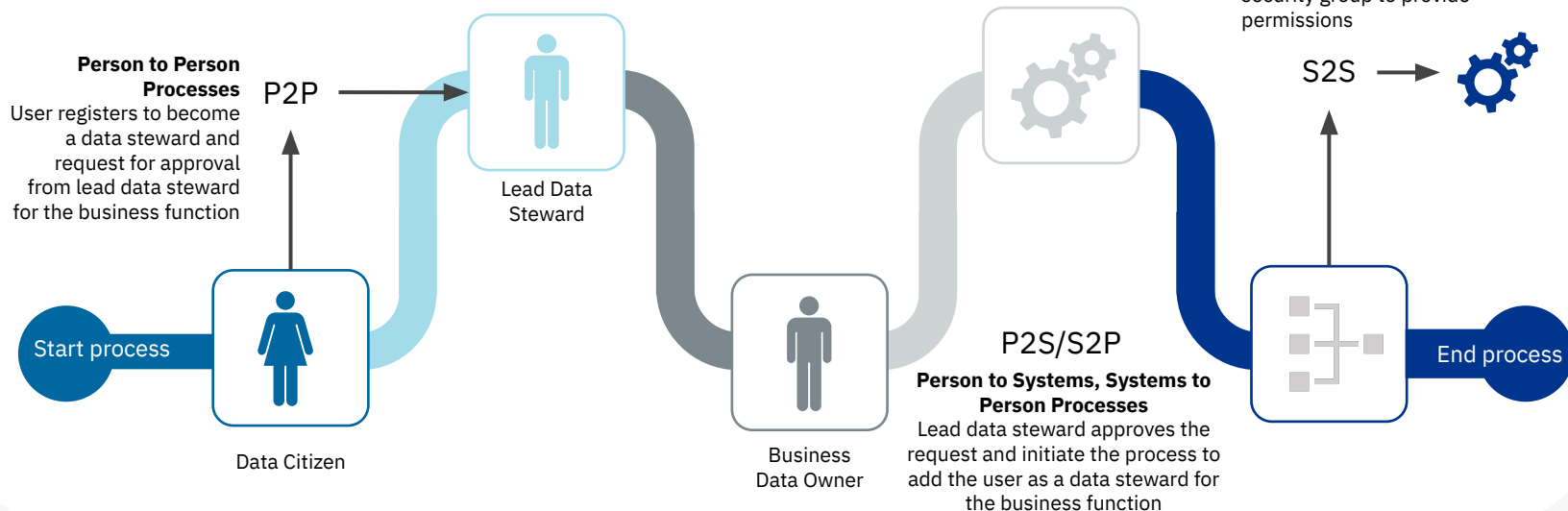
Technology

Given the number and variability of processes, flexibility and evolution are required.

Data Governance Process Orchestration

Data Governance is focused on executing three main workstreams

Data Steward Registration Example Process



Connecting all processes using common patterns and decision trees

People and Data Asset Types



People

Roles & Responsibilities (“Who”)

Business Data Stewards

BDO

Business Data Owner: The Business Data Owner oversees and owns the business vision and strategy for the data in their domain

BDS

Business Data Stewards: execute the business vision and strategy for the data in their domains

SME

SMEs: Provides business process and business operations support in coordination with the BDO and BDS needs

Technical Data Stewards

DA

Data Architect: provide technical leadership and strategic direction for the technologies, standards, processes and architectures of data across the enterprise.

DE

Data Engineer Lead: develops and deploys innovative data solutions for advanced analytics and data processing. They define and build the data pipelines that will enable faster, better, data-informed decision-making within the business.

DM

Data Modeler: understand and translate business needs into data models supporting long-term solutions. They work with the development teams to implement data strategies, build data flows, and develop conceptual data models.

Data Assets (“What”)

KPIs
Metrics
Reports
Glossary
Process

Databases

Schemas

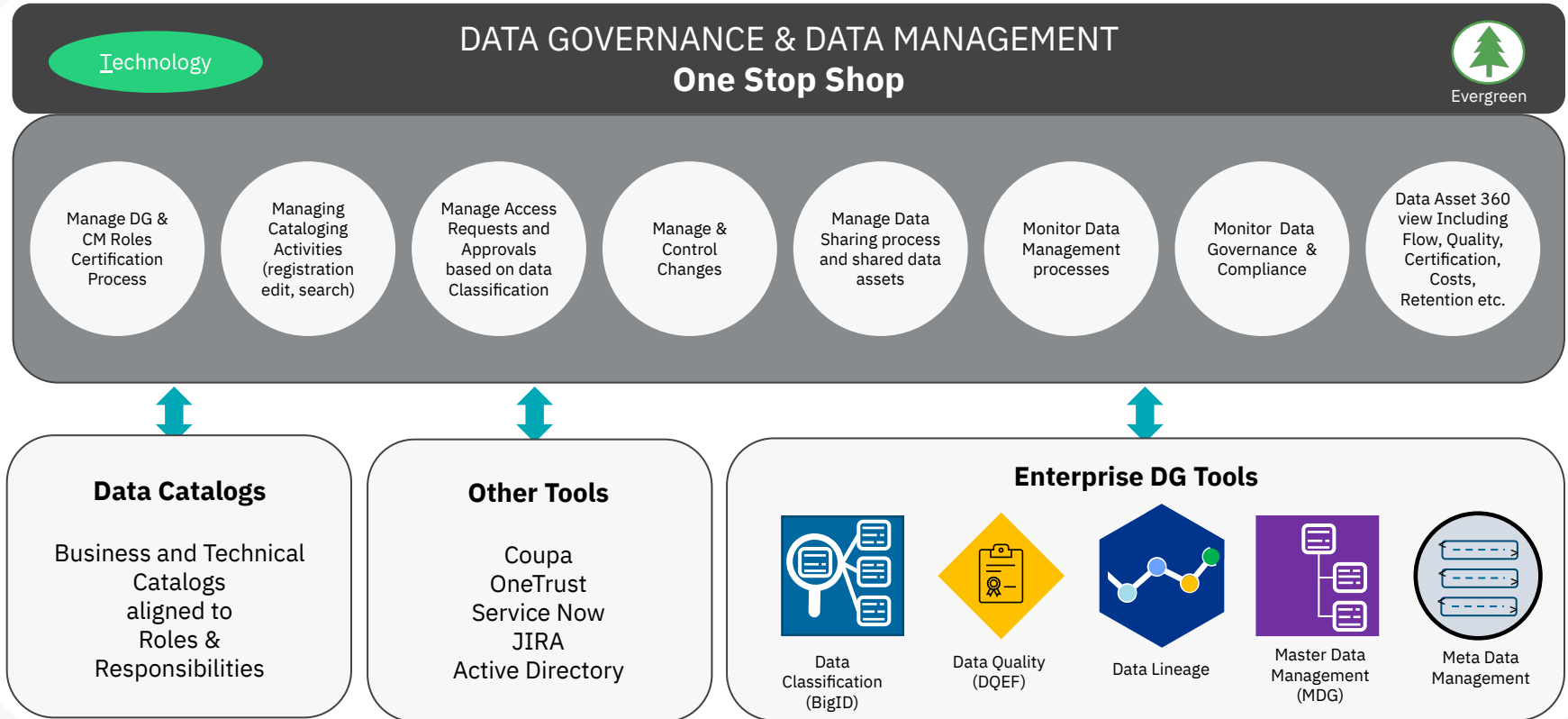
Tables &
Columns

Transformation
Jobs

Ingestion Jobs

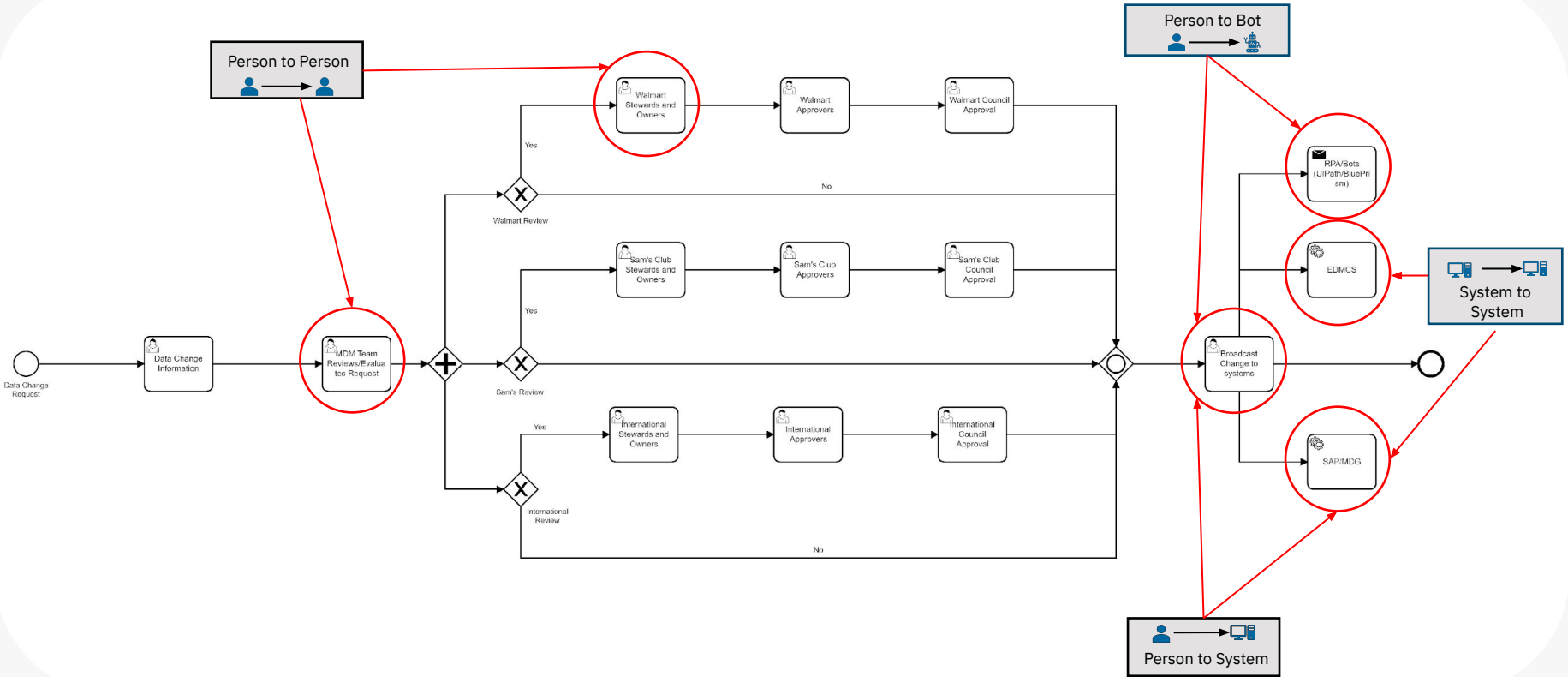
Key Data Governance components supporting processes

One-Stop-Shop View



Connecting all processes using common patterns and decision trees

What Camunda BPMN looks like? Master data process PoC



Modular build, easy to use, fast time to market

How Camunda is helping with our Data Governance approach



- Ensuring that People (“Who”) and our Data (“What”) remain evergreen and up to date through (“How”) sustainable processes (minimum effort and part of day-to-day business and technology operations)
- Enforcing good data hygiene as it embeds DG into data management and change management processes – providing full transparency and traceability and adherence to Data Governance policies and Data Management practices
- Leveraging and integrating with other eco-system tools that support DG and data management processes – no need to replicate functionality and provides plug and play optionality when changes are made to the Enterprise suite of tools
- Facilitating a 360-degree view of all data assets – a “one-stop-shop” unifying all data needs with end-to-end process handling including functionality for finding, understanding data assets relationships and stewardship, thereby eliminating tribal knowledge.
- Providing process trending data for SLA refinement and process reengineering
- Flexibility for changes as processes evolved

Thank You

