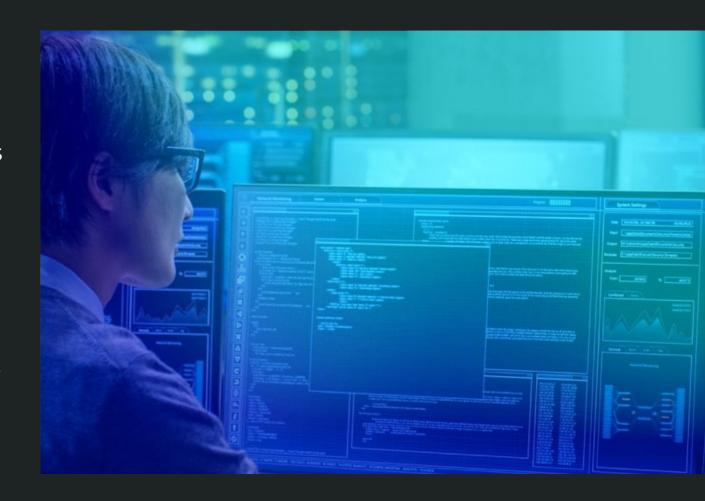


Industry Data Governance - iDataGov Powered by Microsoft Purview

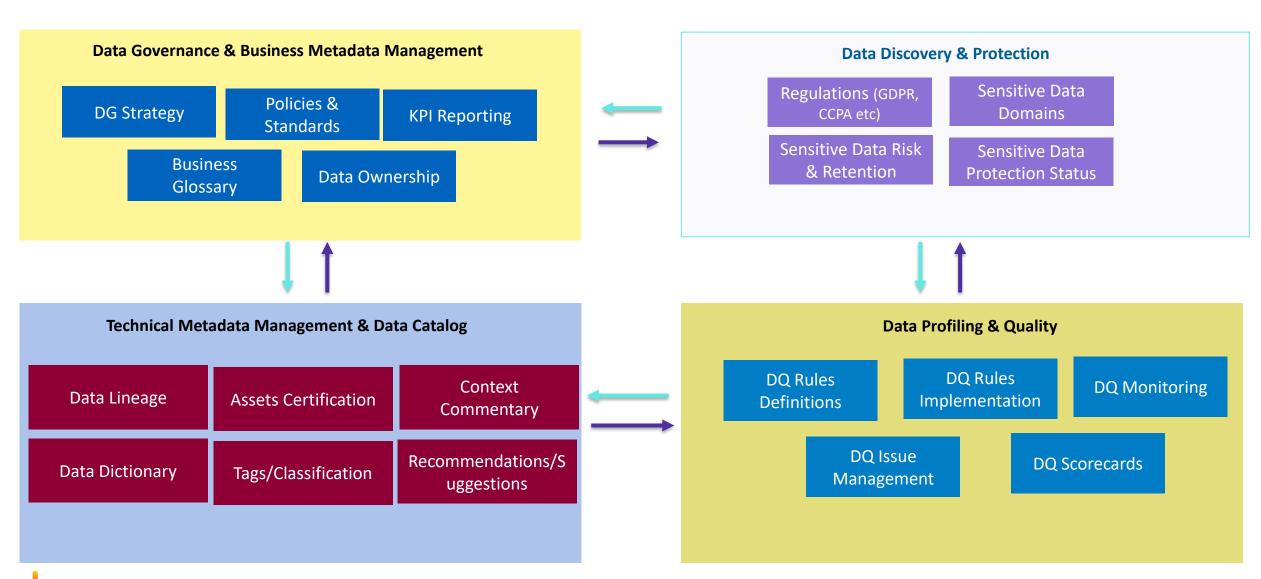
Microsoft Business Unit – Data Analytics & Insights

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Data Governance Principles Operationalization -

Our view on how we can operationalize the DG principles using relevant tools & technologies



CONSULTANCE SERVICES

iDataGov – Industry Data Governance overview

Cloud native unified data governance solution for transformations across Industries with customized suite of solutions

Retail and CPG BFSI TTH Auto Auto Industry Deployment Classification standards **Auto Data** Custom Data description **Connectors** Security & audit Data Custom Data Utilization Discovery Addon Map **Insights** & Quality Lineages Rich **Business** DataMesh Integrations Glossarv Data Metadata PII Alerts & **Policy** Curation Detection **Notification** standard Glossary **Unstructured** MDM Automap Data Metadata Auto Log Extraction Monitoring lineages

Utility 1

Manufacturing

Telecom

Life Science

Industry ready deployments

- Industry ready repo
- Synapse Common Data model based
- Data Dictionaries
- Frameworks & Accelerators

Data Governance Factory Model

- DG office setup people and processes
- DG Consulting
- Agile deployments
- Standard processes
- FinOps based monitor

TCS Frameworks

- Data onboarding Standardization, Scorecards
- Service Provisioning linkages, Business glossary
- AutoOps, Migrace, AIML DQ

Benefits

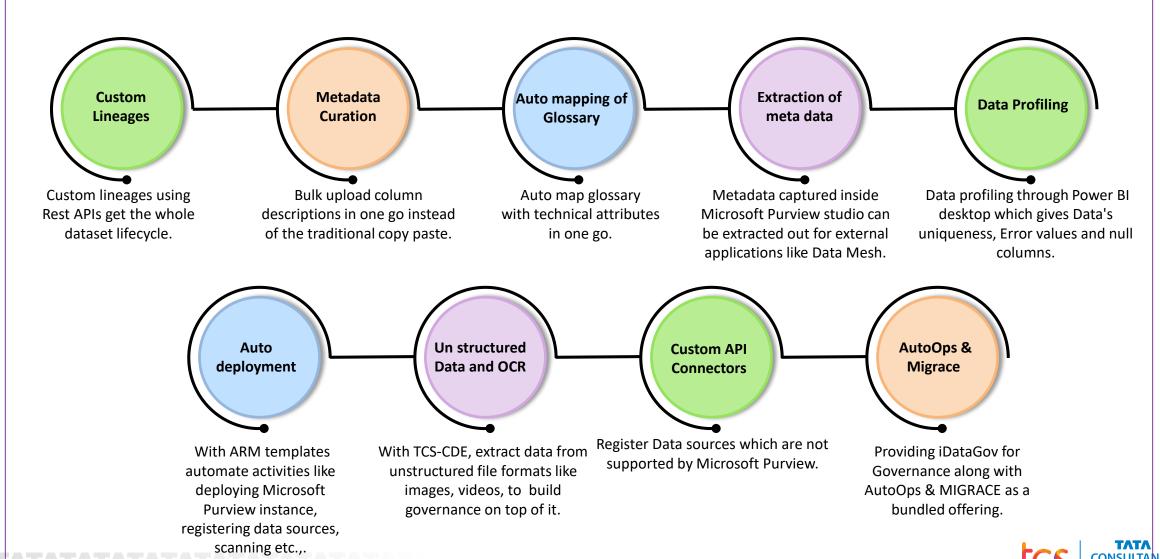
- Industry data model standardized governance ecosystem
- Automated data discovery, classifications, lineages and insights brings 100% standardization
- Increased data security and personalization with PII-enablement and OCR detection
- Improved data quality and master data management integrated with KPI metrics knowledge repository
- Integrated KPI metrics Improves data quality and master data management
- Nearly 50% productivity improvements with automated resource provisioning and data integration from Hybrid environment



Functions and features – continuous development

AIML led Industry ready deployments

Bring standardization and reduce time to market



TCS Data Governance Capabilities

iDataGov

TCS frameworks

- Assessment Strategy,
- Policy, Standardization, Scorecards
- Service Provisioning
- AutoOps, MIGRACE, AIML

Microsoft Purview

- Data Discovery
- Data Catalog
- Data Lineages
- Data Classification
- Business Glossary
- Role Based Access
- Data Policy
- Data Insights

Data Governance Factory Model

- Synapse Common Data Model integrated
- Data Dictionaries
- Industries Retail, Manufacturing, BFSI, Healthcare, Sustainability Etc.

TCS Accelerators Custom Dataset Lineages

Manual lineage for unsupported transformation activities like Databricks, stored procedures etc.

Custom Data Extraction

Technical and operational metadata extraction from Microsoft Purview instance

Auto Deployment

- Microsoft Purview Instance
- Register & Scan Data Sources
- Develop Connection Hierarchy
- Scan Ruleset
- Assign Role

Asset Curation

Bulk Import of column descriptions into assets

Glossary Auto Mapping

Automatic mapping of glossary terms to technical attributes

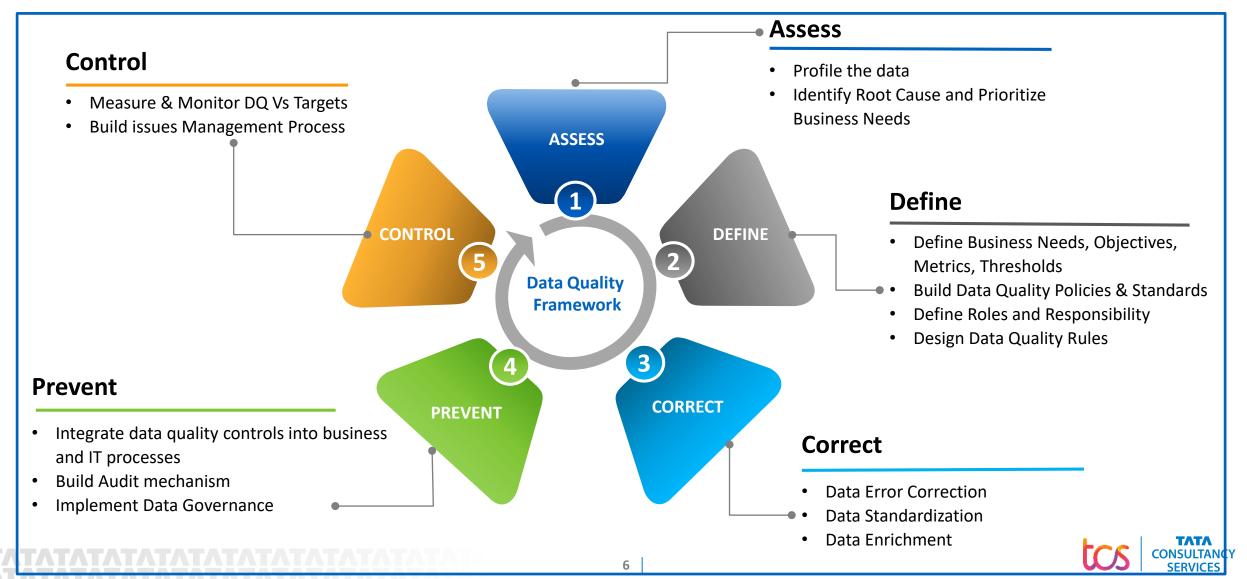
- Industry templates
- Auto Lineages for all sources
- PII Detection
- Cognitive AIML led Data Governance
- Alerts & Notifications
- DataMesh
- Log Monitors
- MDM





Data Quality Framework

Data Quality Framework provides logical steps to identify, correct and sustain higher levels of Data Quality across the enterprise. TCS's Data Quality Framework includes Initial Data Assessment, KPI metric development, Remediation Planning, and Continuous Monitoring.



Data Governance Solution Implementation approach - sample

- Follow Agile way of implementation
- Proposed an approach of MVP to build capabilities
- Cost benefit analysis of manual process v/s automation and business value



PHASE 4: Steady State and Transition

- Align to CDO Data governance policies
- Enhance Microsoft Purview reporting and dashboard – Build custom metrics to capture Data Catalog usage
- Data insights help business to understand data hetter

PHASE 3: Execution

- Development of Data Governance Platform Meta Model
- Develop and implement the Azure Purview data governance solution for 2 critical data priorities
- Periodic reviews by stakeholders & Measure performance and monitor feedback
- REST API's / API's Development to integrate with different systems
- Development of Workflows for automating the business (DG) processes

PHASE 2: MVP and Build Capability

- Designing of Data Governance Platform Meta Model
- Build custom connectors or develop API's (reusable components) where native connectors of Microsoft Purview are not available
- Identification and design of workflow processes to automate the business(DG) processes
- Custom solution (reusable components) to capture Derived Data Elements and Logic from code components
- Build capability to automate CDE to PDE linkage in Microsoft Purview eco-system

PHASE 1: Foundation

- Formulate the DG organization and define Roles and Responsibilities; Documentation all the systems and Stakeholders participating in the Data Governance Program
- Identification of business Priorities and Defining the Operating Model; Formulate strategy for Metadata extraction, Business policies and Glossary import
- Extract Metadata/Physical Data Elements (PDE) using native connectors of proposed tools and technology solution automate extraction of PDEs
- Strategy to leverage Microsoft Purview API's & REST API's for integrating with different systems
- Manual process to
 - Link PDEs to Critical Data Elements (CDE) in Microsoft Purview
 - SDLC adoption capture derivation logic / code component names

