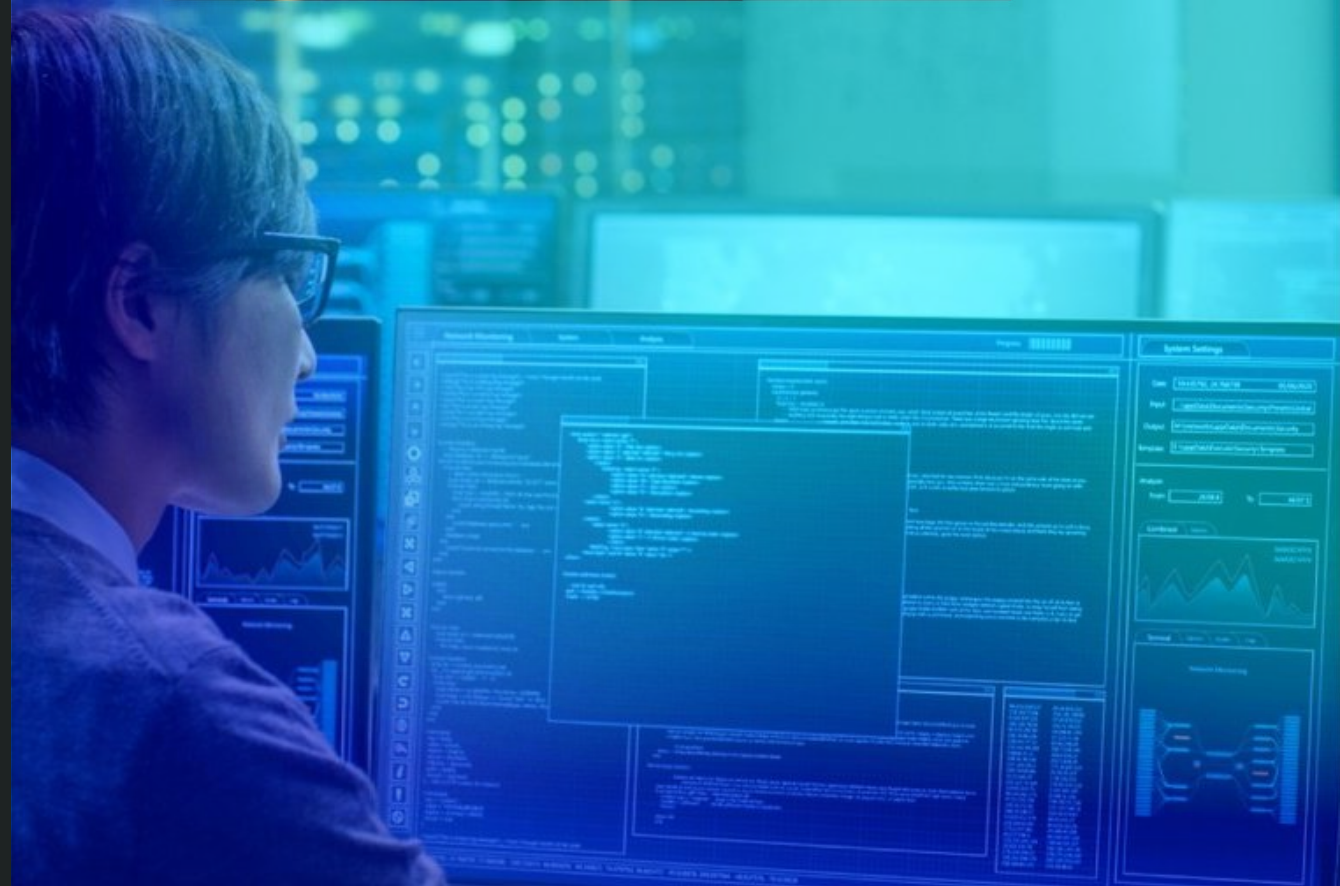


Industry Data Governance - iDataGov Powered by Microsoft Purview

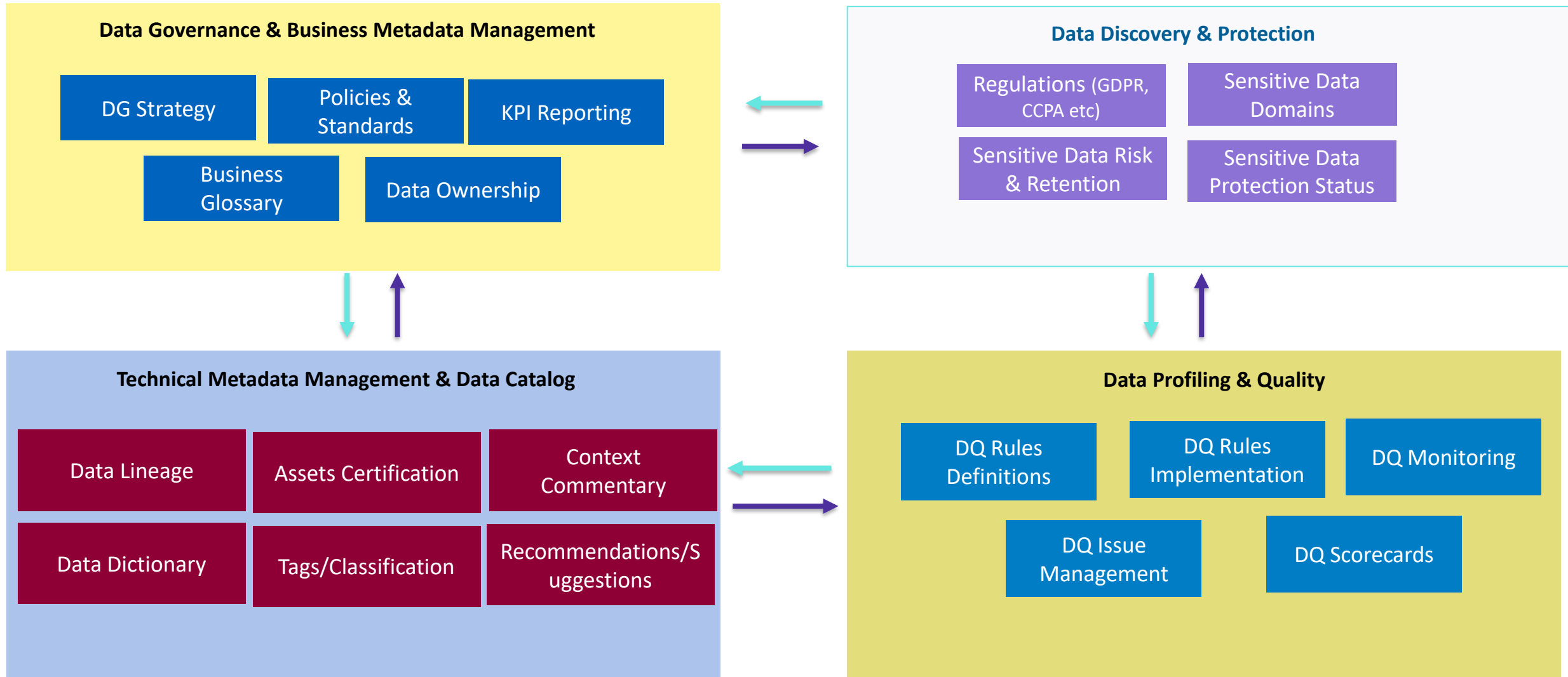
Microsoft Business Unit – Data Analytics & Insights

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Data Governance Principles Operationalization -

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



iDataGov – Industry Data Governance overview

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

Retail and CPG

BFSI

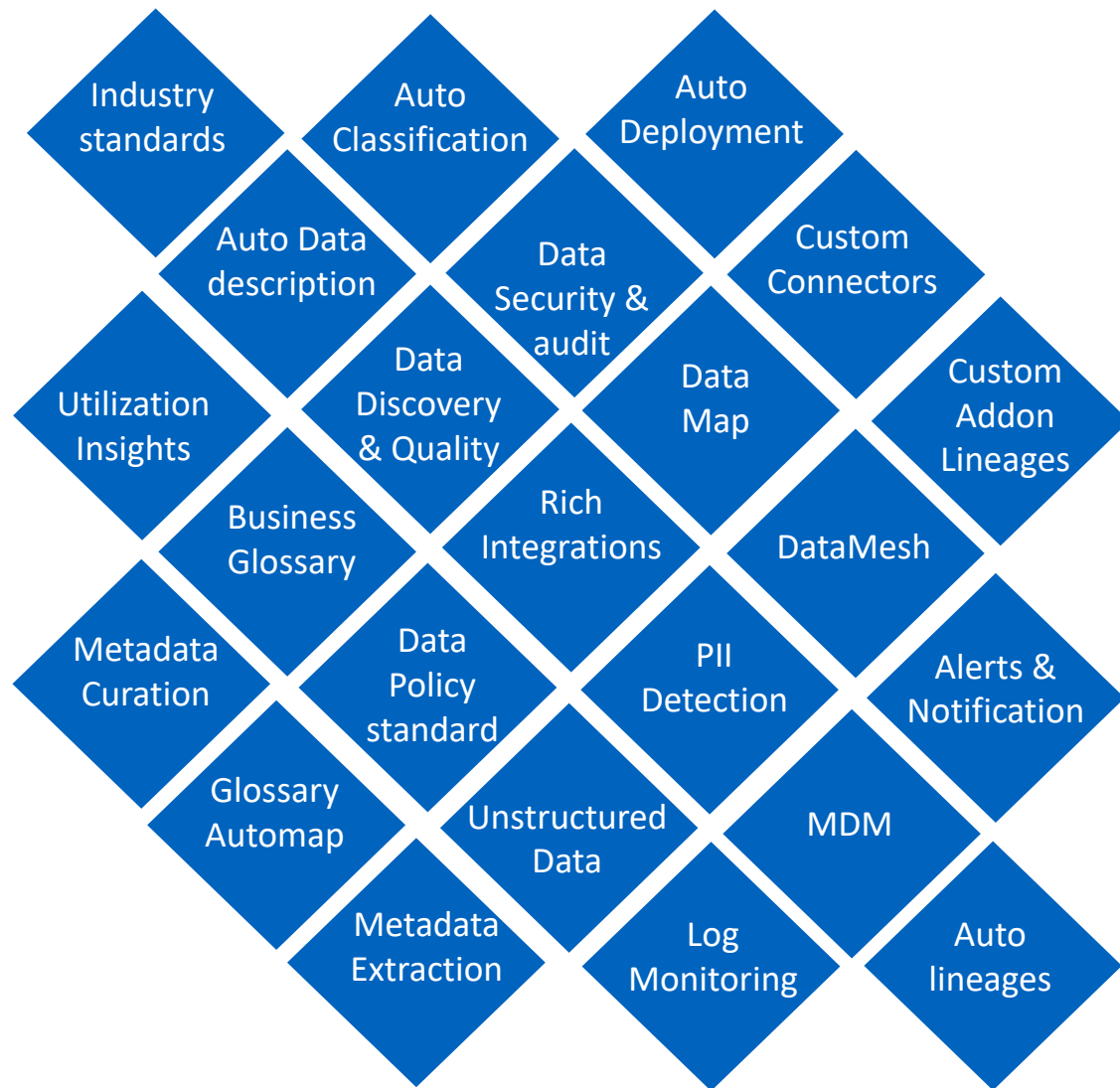
TTH

Utility

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

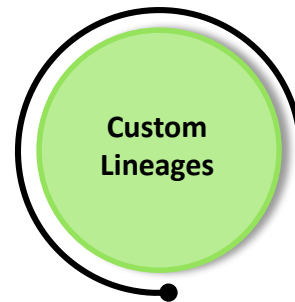
Benefits

- **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

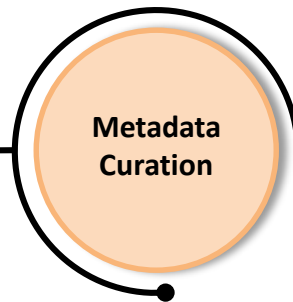
Functions and features – continuous development

AIML led Industry ready deployments

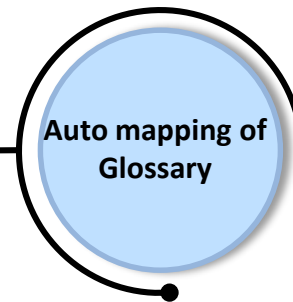
Bring standardization and reduce time to market



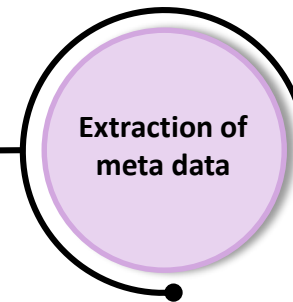
Custom lineages using Rest APIs get the whole dataset lifecycle.



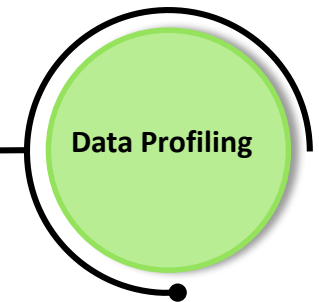
Bulk upload column descriptions in one go instead of the traditional copy paste.



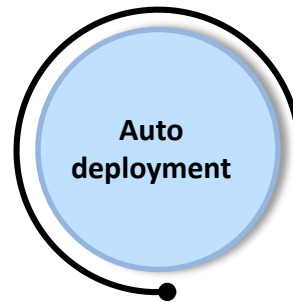
Auto map glossary with technical attributes in one go.



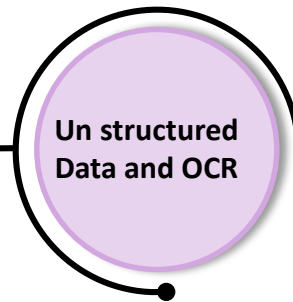
Metadata captured inside Microsoft Purview studio can be extracted out for external applications like Data Mesh.



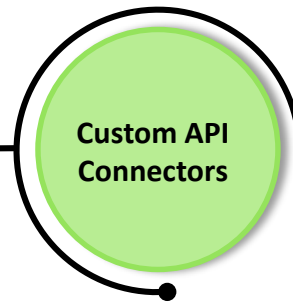
Data profiling through Power BI desktop which gives Data's uniqueness, Error values and null columns.



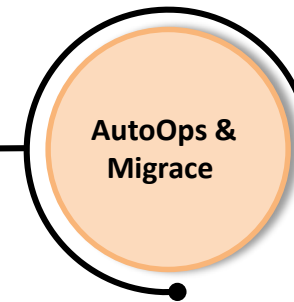
With ARM templates automate activities like deploying Microsoft Purview instance, registering data sources, scanning etc.,.



With TCS-CDE, extract data from unstructured file formats like images, videos, to build governance on top of it.



Register Data sources which are not supported by Microsoft Purview.



Providing iDataGov for Governance along with AutoOps & MIGRACE as a bundled offering.

TCS Data Governance Capabilities

TCS frameworks

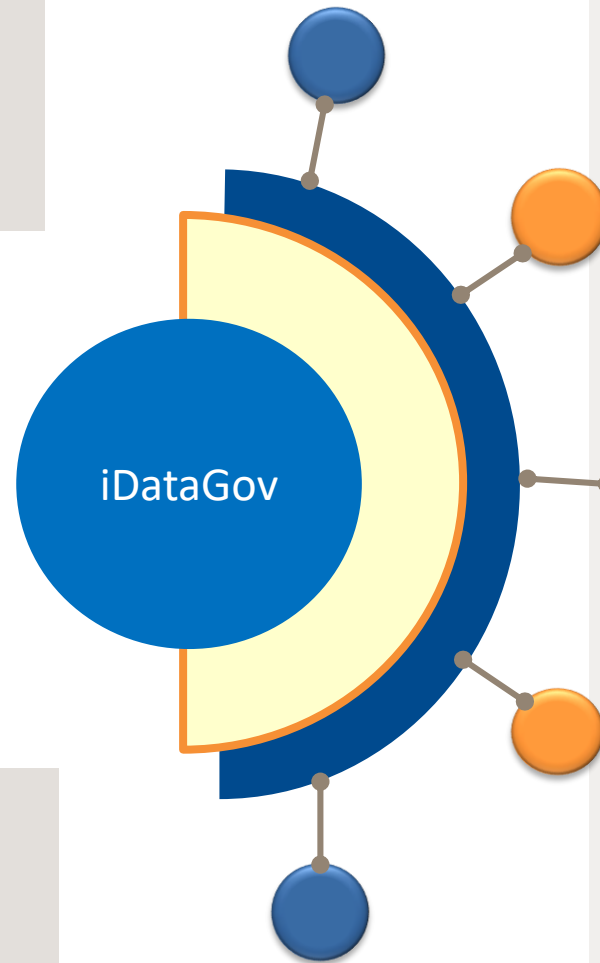
- Assessment Strategy,
- Policy, Standardization, Scorecards
- Service Provisioning
- AutoOps, MIGRACE, AIML

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

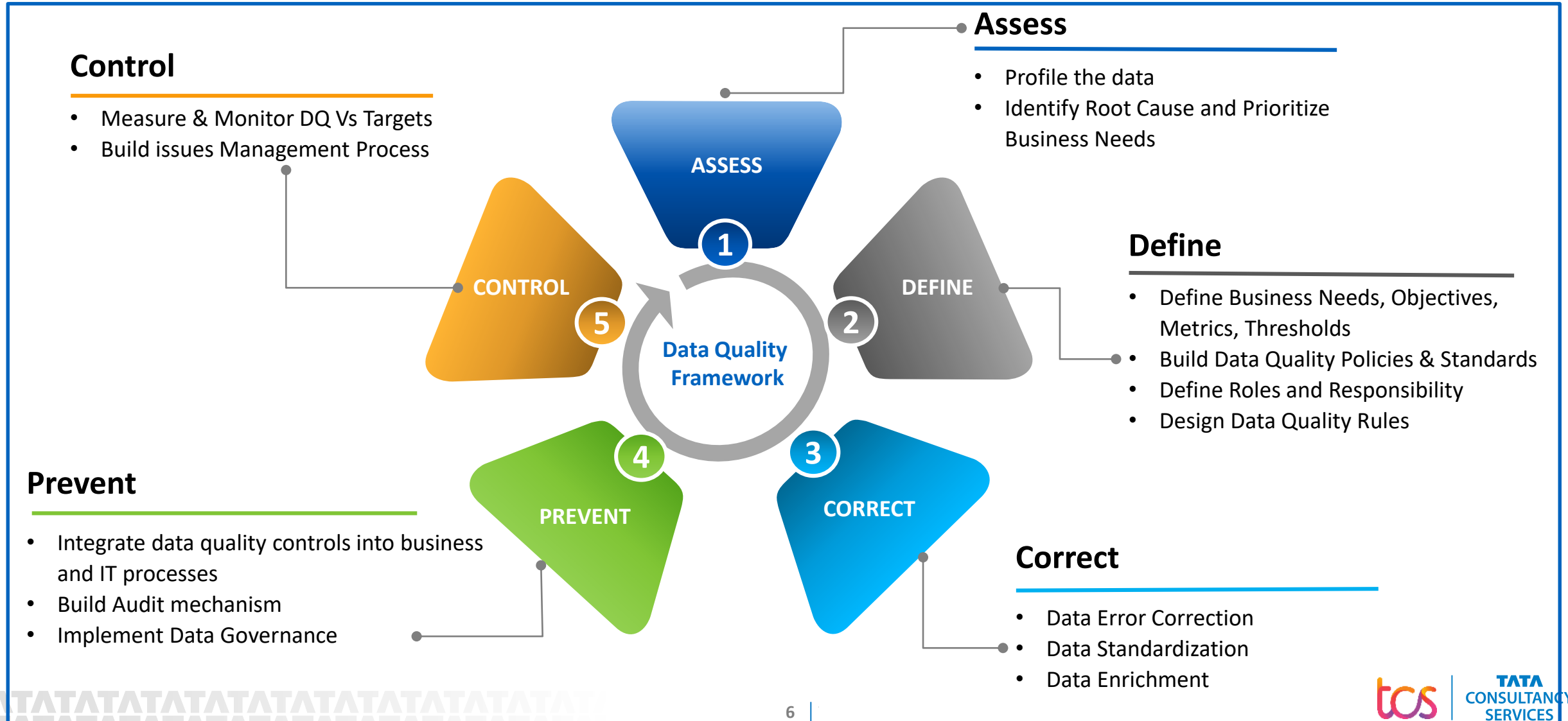
Glossary Auto Mapping

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

