



Data Governance

Privacy and Security in the Digital Age

September 6, 2024

27th National Conference on e-Governance





Agenda

• Data Governance Framework – Overview

Our Approach Towards Data Governance

Roadmap







3i Data Governance Framework - Overview

- **Vision:** To enable Organization's vision of "Smart for All" through "Smart People & Smart Solutions" with a strong foundation of Data Governance.
- **Goal:** Transform Data Governance through a robust Information Lifecycle Management Acquisition to Archival
- **Governance:** Clearly defined Responsibilities and Accountabilities across the Information Lifecycle Management, aided by Digital Solutions.

A robust **Data Governance** framework enables managing and maintaining Data Quality by ensuring data is:

- COMPLETE
- CONSISTENT
- VALID
- ACCURATE
- INTEGRITY
- TIMELY

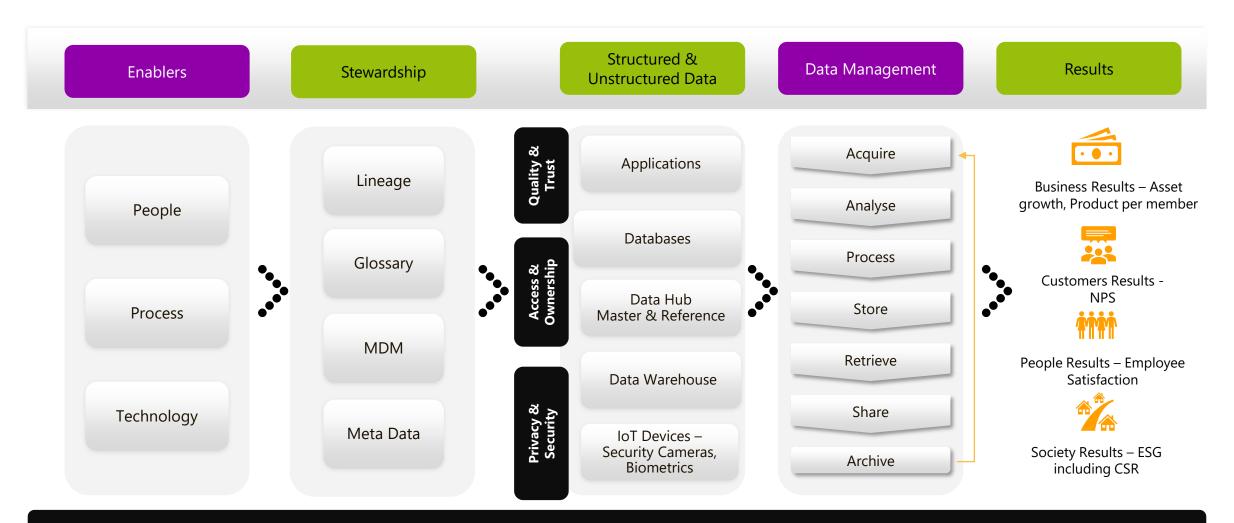








3i's Proposed Data Governance Lifecycle



Robust Information Lifecycle Management







Approach Towards Data Governance

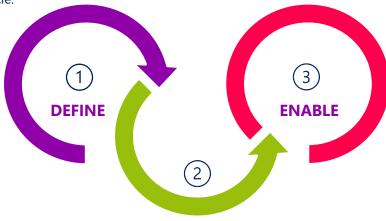
STRATEGY DATA MANAGEMENT ENABLERS STEWARDSHIP



Gain full understanding of your vision and design a relevant framework tailored to your requirements

Define and create automated Data Governance and Data Quality controls across the data life cycle.

Enable the organization with a robust Data Governance program to manage & maintain good quality data across all Lines of Businesses.



OPERATIONALIZE

Operationalize processes, tools, and technology for Data Management, Profiling, and Investigation with a focus on early remediation of Data Quality issues and ongoing maintenance.







Data Maturity Scorecard – Stated Outcomes Example

Element	Current Maturity	Desired Maturity	KPI	Outcome
Organizatio n	Traditional Structure	community based self- governance	New Ideas Implemented	% Employee Satisfaction Rate
Stewardship	Data Stewards only	Stewardship in every discipline	Stewardship communities	% of more Stewards
Policy	Ad-hoc Policy management	Structured Policy Management	None Specific	% increase in regulatory compliances
Data Quality	Spreadsheet-based DQ program	Process oriented DG program	Data utility indexPrice of data	% reduction in fraud
Architecture	Stovepipes of data	Federated and integrated	Data availability index Data supply ratio	% reduction in Data Mgmt. Cost
Metadata	No Metadata Management	End to End Metadata Management	Business glossaryMetadata elements	% reduction in Policy failure
Security	Enterprise Access Control	Context-based entitlements	No. of Incidents	% Member Satisfaction
Risk	Faith-based Risk Management	Faith-based Risk Forecasting	Increase in Capital Reserves Reduction in Losses	% Net underwriting profit
Value	Command Economy Labour Theory	Demand Economy Utility Theory	Efficiency of IT service pricing	% Net IT operating profit
ILM	Enterprise Backup	Policy-based backup	Retention/deletion ratio	Terabytes Saved
Audit	Quarterly Audits	Automated self- assessments	Failures reportedAudits passed	% reduction in IT Project failure





STRATEGY

DATA MANAGEMENT

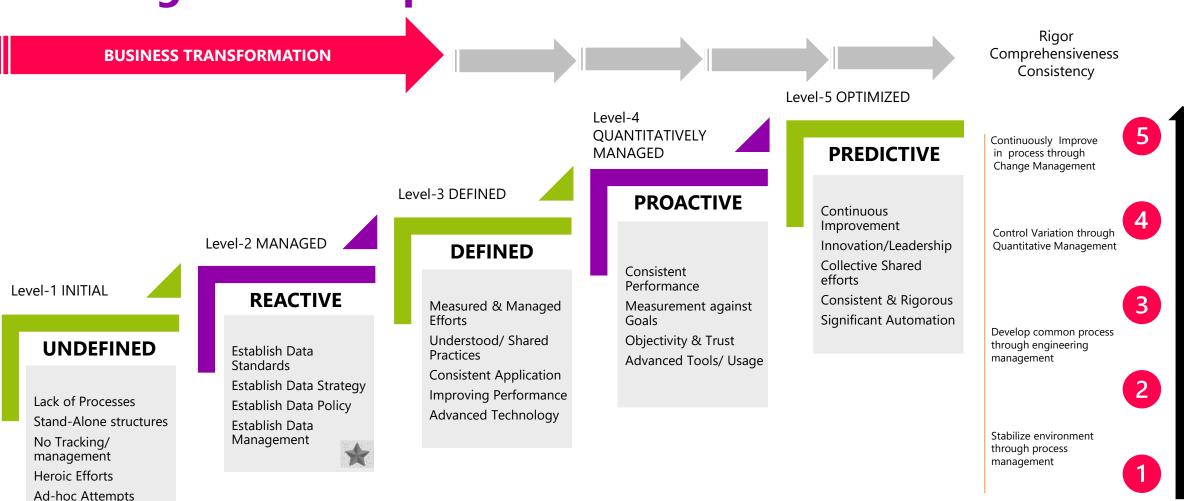
Current State?

ENABLERS

STEWARDSHIP



Enhance People, Process & Operating Model Moving towards a predictive future state







STRATEGY DATA MANAGEMENT ENABLERS



Data Strategy & Information Lifecycle

DATA ASSESSMENT CONTINUOUS MONITORING MONITORING measures ongoing data quality and provide alerts **DATA CLEANSING DATA SECURITY** 3i Infotech **SECURITY** by preventing loss of data through unauthorized access. **MATCH & CONSOLIDATE** DATA ENHANCEMENT **MATCH** duplicate records within **ENHANCE** appends additional data multiple tables or databases, increasing the value of the **CONSOLIDATE** combine unique information date elements into a single source

MEASURE and quantify the number of defects and **ANALYZE** the nature and cause of the defect

STEWARDSHIP

PARSE data elements into data structures,
STANDARDIZE data values and formats as per rules, CORRECT by verifying, scrub, and append based on a set of sophisticated algorithms.





STRATEGY DATA MANAGEMENT ENABLERS STEWARDSHIP



Tools & Technology

Tool 1

- Unified Platform with Complementary Modules
- Enterprise-Proven Usage
- Robust Data Processing Engine



Tool 2

- Proactiveness in Managed delivery
- Secure for data in transit and at rest
- Acceleration in cloud transformation cycle time

Compliance Reporting

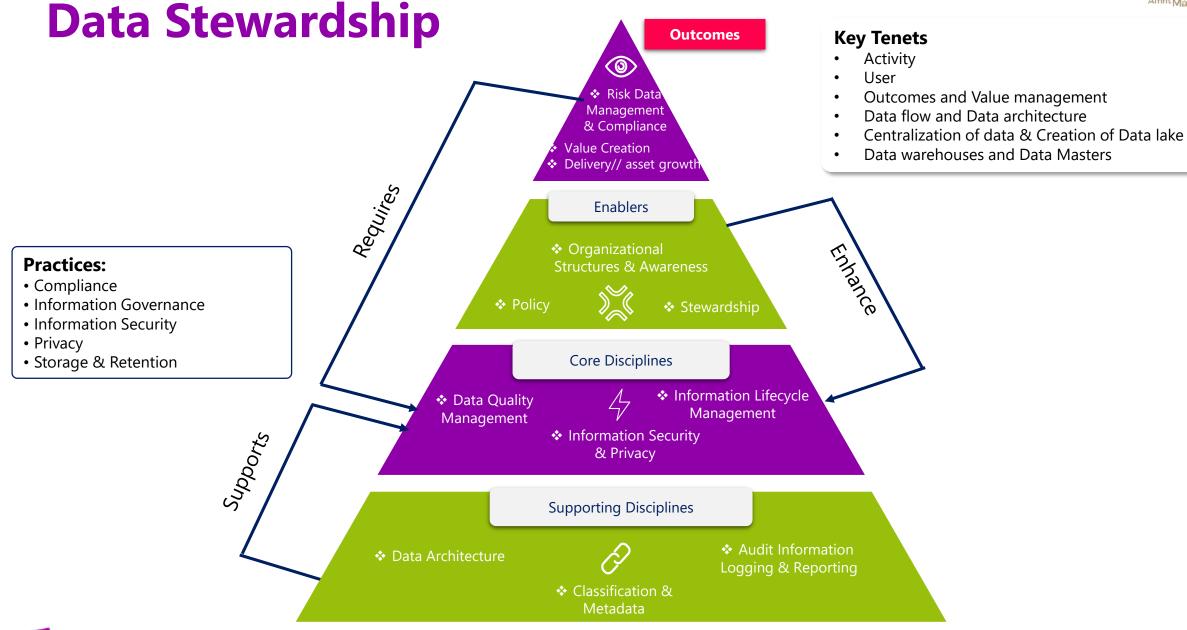
→ Work in Progress





STRATEGY DATA MANAGEMENT ENABLERS STEWARDSHIP









Meta Data and Key Decisions Sought

Most metadata support has been targeted at operational stewards though we do use subject areas to identify Executive stewards.







Roadmap





ROI and Next Steps 1 Year Roadmap

Q1 – Q2

Hygiene

- Data Landscape discovery
- Data source identification and data collection planning
- Data Quality assessment and Automation roadmap
- Product and platforms data scoping into data governance
- Define governance structure and target operating model
- Data Interactions management
- Security management
- Enable Data maturity life cycle
- Meta data transformation
- Risk, Value and ILM management
- Linking data pipelines to policy, procedure and tool workflow level
- Enable audit trails and logs as required

Q2 - Q3

Confidence

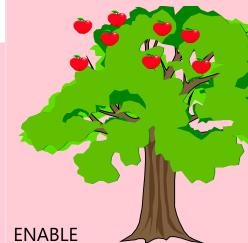
- Enable Data management
- Operationalize data strategy and automation roll outs in phases
- Enable Information life cycle Assessment to monitoring
- Meta data decisions alignment
- Facilitate automated data quality scorecard
- Data value management and data synergy
- Log management and action
- Leak prevention, data classification and information management governance and reporting
- Third party data management and data assurance

Reliability

- Data Stewardship and Governance
- Enable data workflow and tooling for control self-assessment
- Manage CIA metrics and specifically enable
 - Corrective controls
 - Detective controls
 - Preventive controls
 - Input, Process and Output Controls
- Measure data quality and review the exceptions periodically
- Refine data architecture and scale the data automation to autonomation
- Data management, reports and automated refresh's

Data Stewardship

- Optimize cost of data management and maintenance
- Compliance management by design
- Vendor/Partner Governance
- Policy deployment through the system and audit trails through the system
- Continuous monitoring and control selfassessment







• OPERATIONALIZE

Hygiene

Roadmap by Classification

L6- Define the data automation and tooling roadmap L7-Interactions

- i) Data cleansing
- ii) Data Quality
- iii) Stewardship and goal alignment
- L8- Elements of data maturity scorecard

L2- Map the data collection planning and data governance parameters

L3- Map the data flow diagram and align the data strategy

L4- Measure the data maturity

L5- Map the KPI and Governance model

L1- Identify the sources of data as structured, unstructured and semi structured
L0-Identify and map the data landscape

M4 Setting up of PMO

M4a) Data quality team

M4b) Policy management

M4d) Security Management and Access controls

Confidence

M3 Target operating model

M3a) Tool workflow standardization

M3b) Customization

M3c) Queue management- Escalations and Incident handling

M3d) Centralized reporting team-Automation

M3e) Enablement of lean driven decision support system

M2 Continuous monitoring M2a) Control Self assessment

M2b) Coaching sessions the team members

M2c) Meta data decisions alignment

Reliability

H9. Quality Controls for data governance and data utilization

H10. Structuring the data security by data layer level

H12. Predictive analytics as relevant

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H4. Governance Workflow digitalization

H5. Risk management and profiling

H6. Data Value management

H7.Back up and recovery of data

H8.User experience management

H1. Manage the data lifecycle through automation

H2. Tools and Technology enablement

H3. Meta Data and Data Standardization









DPDP Implementation - Immediate Action Plan

Timeline -Data inflows need to be **Notification of Rules** This needs to be done at Branch, regulated, should be received **Divisional, Regional and Head Office** likely by through Secure, Regulated Levels Channels Additional Software functionality for DPDP Storage of personal data in Core systems and in requirements (consent – receipt / Laptops / Desktops / Mobiles, must be withdrawal, customer demands on Data restructured to meet DPDP compliance. This will Modification, Deletion, Tracking, need Changes / Modification to Core Systems Nomination **DPDP Compliance Training Advanced** Awareness 1. DO / DO / RO 1. Agents 2. Management 2. Field Staff / Direct Sales



Bridging the gap: Current Skills vs. Future Al-Driven Demands

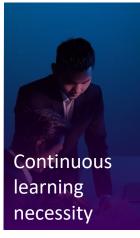
As AI technologies transform industries, the need for specialized skills in data governance becomes increasingly critical. Bridging the gap between current expertise and future demands is essential for effective data management in an AI-driven world



The rapid advancement in AI technology is creating new roles and responsibilities that require specialized skills not currently widespread in the workforce.



There is a significant gap between the demand for AI, data science, and cybersecurity professionals and the supply of qualified candidates.



To keep up with emerging technologies, individuals must engage in ongoing education and professional development to stay relevant in the Al-driven job market.



As data-driven decision-making becomes universal, data literacy is essential across all sectors, not just technology-focused roles.



Early promotion of STEM education and skills is crucial for building a strong foundation for future careers in Al and related fields.







Thank

you

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