Data Governance Service



Data Governance Goals

- **Security:** Protect the privacy, integrity and security of data through an intentional and guided process
- Quality: Foster an organized system to manage data effectively and ensure clean, consistent data
- Process: Ensure use of standard, repeatable processes for data entry and reporting
- **Culture:** Support a culture of informed decision making based on clean, consistent and understandable data
- **Confidence:** Ensure quality, reliability of data so that there is confidence in information throughout the enterprise
- Accuracy: Eliminate errors and omissions as it relates to data quality



The Fundamental Question.....Get the Conversation Started!

Is your organization getting the information needed to run the business easily, timely and accurately?.....

OR

Do the following challenges hinder this goal?...

- Ease of Use
- Poor Performance
- Staleness of Data
- Errors & Omissions

- Accuracy of Data
- Too Much Excel
- Manual Data Processes
- Security Issues
- Incomplete Data
- IncompleteCorrelation



- Tools don't meet needs
- Internal Skills



Data is core to any business; and without it, businesses could not function.

Reliability and accuracy are critical to avoiding costly mistakes and errors

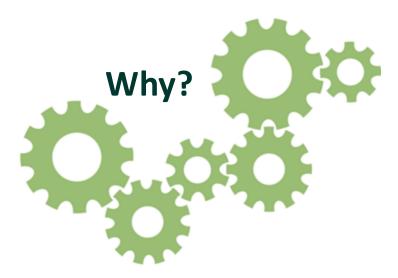
Without data governance the risks are great including but not limited to.

regulatory penalties, brand degradation, customer churn, faltering financial performance, and loss of market share.

Your data can be valuable asset or an expensive liability.

Data is a strategic edge. Proper data governance can lead to becoming more competitive, better decisions resulting in better performance, and improved strategic business insight.

Data Governance



Data is now recognized as one of the most important strategic corporate assets.

Data Governance Maturity Model -Gartner



The organization has reached its goal in terms of information management.



EIM standards & policies are well understood & implemented.

03 Level 3: Proactive

Information management system is accepted & adopted.

Data governance becomes a part of every project.

02 Level 2: Reactive

Sharing of information takes place between the teams. The level of adherence to the information management system is low.

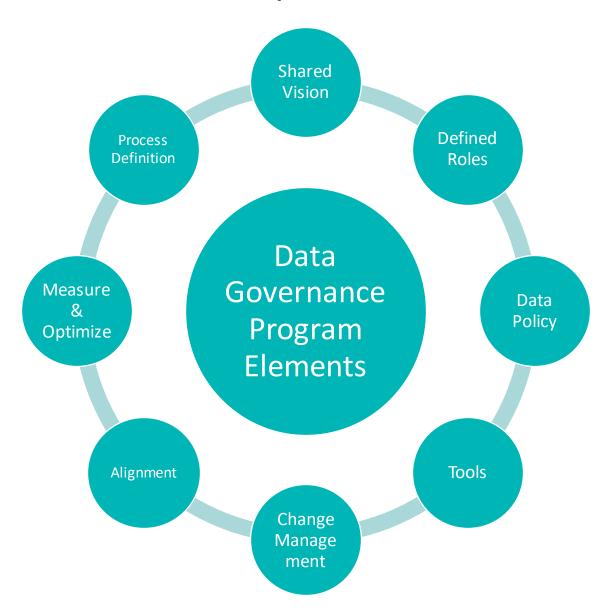
01 Level 1: Aware

Business and IT leaders start to understand and acknowledge the value of information and EIM.

00 Level 0: Unaware

There is no ownership, security, or any system defined for data in the organization.

Data Governance Key Elements



Sparkhound Data Governance Service can address issues on an enterprise or address areas of interest individually.

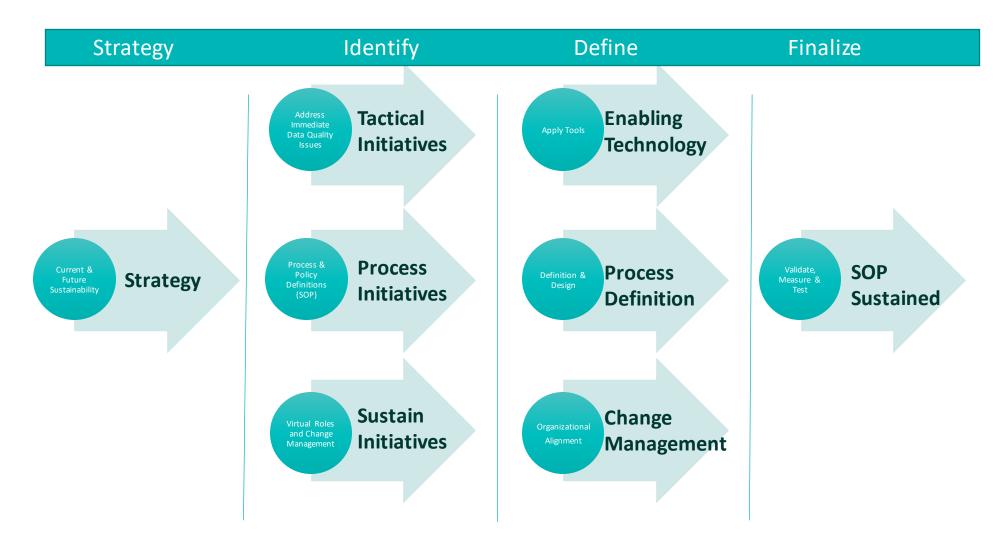
Sparkhound recognizes that data quality and governance is as much a process as it is enabling technology

Sparkhound has a proven approach to setting up both small and large data quality and governance processes.

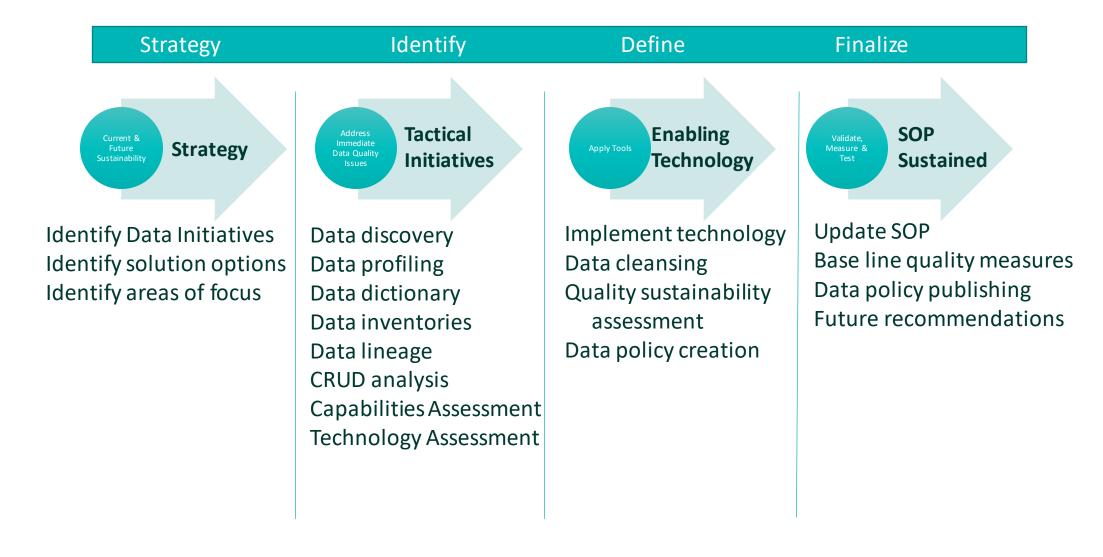
Data Governance Flexible Approach



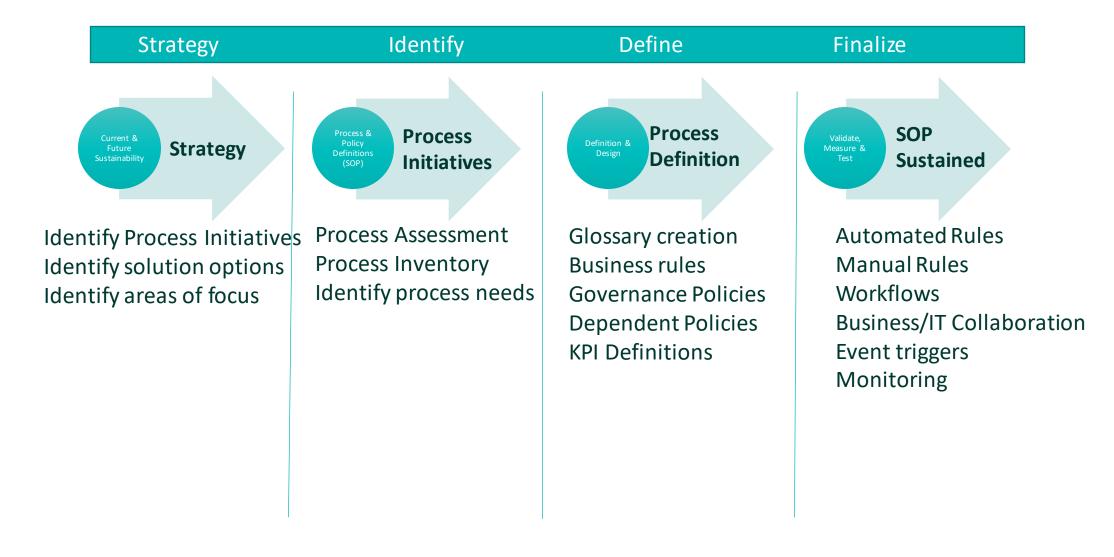
Sparkhound Multi Workstream Approach to Data Governance



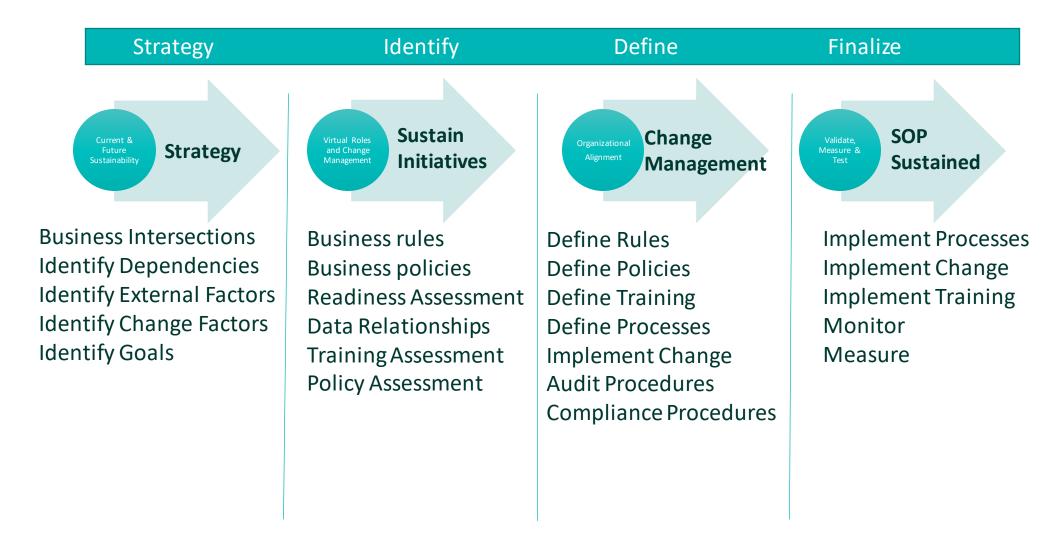
Sparkhound Multi Workstream Approach to Data Governance - Tactical



Sparkhound Multi Workstream Approach to Data Governance - *Process*



Sparkhound Multi Workstream Approach to Data Governance - Sustain



Sparkhound Data Governance Structure

	Order	Efficiency	Control		
Organization	Recently Chartered Data Governance Board	Data Stewards trained & deployed within Material Domain only	Legal Liaison assigned from Compliance for Data Standards Development in Regulated Fields		
Process	Data Stewards trained fro CRUD process facilitation in Materials Domain	Early Forms implementations underway leveraging Winshuttle	Data Validation checks organized for forms at an Enterprise level, planned downstream development of Governance Rules		
Business Execution Knowledge	Data Standards compiled at the Enterprise level for Material Domain	Planned – Kaizen workshops for New Product Creation process	Planned – Build out of Governance Rules to support Information Trust Monitoring		

Sample Deliverables



Sparkhound Data Quality Assessment Criterion

Quality Dimension	Description
Comparability	Are the data from different systems, regions, product lines etc. comparable to each other (equivalent)?
Coherence	Do the data form a coherent body of information that can be rearranged or combined with other data?
Relevance	Do the data meet the requirements of the users?
Accuracy	Are the data describing the phenomena that they were designed to measure; that is, is the data context correct in each functional area
Timeliness and punctuality	How much time has elapsed between the end of the data collection and when the data are available for analysis? Are the data available when expected, based on specifications?
Accessibility	Can users easily obtain and analyze the data?
Interpretability	Do the data make sense in terms of users' hypotheses? Are supplementary data available to facilitate analysis, e.g., data that describe the major characteristics and structure of the data as well as data about the survey processes

Sample Roles and Responsibilities by Phase Ensuring standards in data collection and quality

Data		т		Data Mo	del Design & Function	onal area	
development Life Cycle	System SMEs	Data SMEs	Data Domain	Data Defining	Data Collection/ Production	Data User/Usage	Activities Co- ordination
1. Information Gathering	Co-ordinate and manage all system integration information	Co-ordinate and understand all current data gathering mechanisms. Assure that appropriate technical meta data is recorded	Identifying, recording & verifying that ALL the raw data source is available & data is recorded	Participate in data definition discussions	Interact with technical and FA to develop data extraction methods, timings and quality checks	Participate in data usage information gathering	Work with the team (s) to complete the system configuration and integration on time
2. Planning and Analysis	of the team (data techn		Co-ordinate, analysis & provide steps on reaching a high level data flow design	Provide data definition guide to build/start solution packages	Develop data production/processing guidelines and implement that with help of tools (IS)	Provide data usage and tool guidance on an appropriate solution	Co-ordinate and support in setting up project timelines, status reporting and tactical decision making
3. Solution Design	Co-ordinate system design & usage methods and get approvals from various stake holders	Co-ordinate for any changes at the source system level	Develop data model, quality rules and exception along with Data SMEs and Data users. Finalize the des	Proposed best options/alternatives based on requirements and technical limitations	Propose alternatives for data production (if required) which fits best to the data definition and over all architecture	Provide alternatives (if required) that best fit for the requirements	Co-ordinate activities including various teams and accept/resolve the solution with in the project timeline

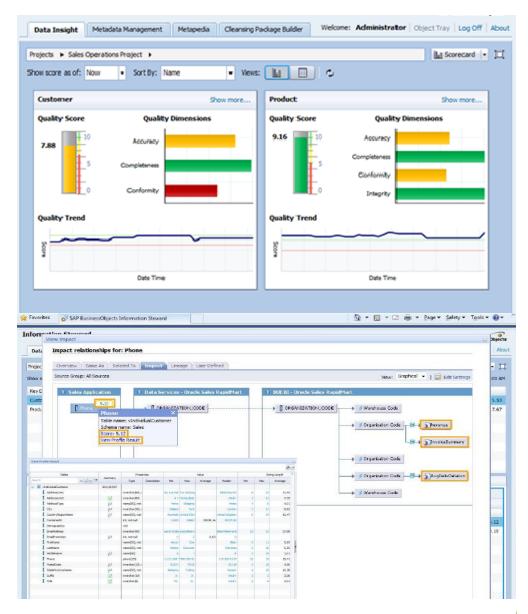
Sample Roles and Responsibilities by Phase (Cont..) Ensuring standards in data collection and quality

Data development	II.	г		Data Mo	del Design & Function	onal area	
Life Cycle	System SMEs	Data SMEs	Data Domain	Data Defining	Data Collection/ Production	Data User/ Usage	Activities Co- ordination
4. Solution Development	Configure the ETL and Data Management system	Assure that the required meta data and transactional data is captured from systems	Assure that the required meta data and transactional data is captured from systems		Validate the ETL output from various systems to the meta data and transactional layer in data model		Work with the team (s) to complete the solution design
5. Solution Testing	Perform integrated system testing. Ensure that the performance criteria is met	Ensure the appropriate data set is captured and verify with help of SMEs		Test data solution from a definition perspective using developers or limited user base	Co-ordinate any bug fixing as part of user testing	Test data solution from a production perspective	Co-ordinate and support in developing test plans, fix time lines and status monitoring
6. Solution Implementation	Co-ordinate the system solution roll out along with system SMEs	Co-ordinate the technical aspect of data solution implementation	Co-ordinate business tasks associated with solution implementation				Co-ordinate activities including various technical teams & business users.
7. Solution Monitoring and Maintenance: Feedback Loop	Develop a system maintenance work plan for system SMEs	Develop	Identify the operational data load issues and other quality issues			Provide a template for data issues pertaining to their domain of data	Solution and Data quality maintenance with Data/System SMEs and accept/resolve the dataset

Sample Role Definition – *Data Steward*

Increase the value of data assets

- Manage the Data Standard and Policies IS allows to document the clear ownership of data at different stages.
- Root Cause Analysis IS allows to track down where the (defective)data come from. Also allows to define "fit for use" rules for the data which allows to monitor the credibility of data before end users come back
- Creating Data Scorecards data quality levels at multiple score cards are developed on how well we are doing against the metrics over time
- Enforcing Data Quality Business Rules at point of entry. With SAP Data Services, we can create validation rules while loading data as well as execute these rules at ERP/CRM level
- Compliance As IS allows data flow tracking, you can operationalize SLAs for individual data stakeholder



Identified Data

	Data to be Governed										
Subject Area	Table and/or Fields (new is okay)		Linage / Providence / Dataflow from original source to target	Data Volume	Freq of Change (Hourly, Daily, monthly, quarterly, annual)						
Technical Team	Technical Team	Technical Team	Technical Team	Technical Team	Technical Team						

Policies

Data Steward										
Owner(s)/Data Stewards (if more sysems in data linage there may be	Owner		Freq of Data Quality Monitoring (Daily, Weekly, Monthly, Quarterly,		Any Current	Data Issue(s)				
more than one owner)	Supported by	Used by	Annually)	Change Process	Issue(s)	CRUD				
Product Owner/OCM	Product Owner/OCM	Product Owner/OCM	Product Owner/OCM	Data Steward	Data Steward	Data Steward				

Action

Т	Technical Support									
Remedy Sollution(s) of		Remedy								
Issue(s)	Date of Remedy	Owner	Notes							
Technical Support / Data Steward / OCM depending on the issue	Technical Support / Data Steward / OCM depending on the issue	Name	All							

Data Categorization

Reference	Team Reported	Source System	Table	fields	Description		
			Table of the				
			source system	List of fields if the			
		Source System	suspected of data	issue is field	Description in "English" of the nature of	Business Process	Data Flow/Data
		identification	quality issues	specific	the issue	of Data	Providence

Action

Agile Story	Agile Story Ref Id	Assigned to
As a end user I want		
quality data with		
[xxxxx] so that I can		Enter Sprint
count on a single		Assigned to be
version of the truth	Enter reference ID	remedy

Data Profiling

Source System	Type of Issue	Describe Data Issue	One Time/Ongoing	Impact of the data	System Redundancy of Data	Is this Global or Order Only	Recommendation	Description of effort	Prioritization
							Recommended	Describe the level	
							course of action	of effort -	
							(Include Tools,	resources	
							Training, Process,	required,	
System Of Origin	Is this a technical,	Describe the	Is this a one time		Where else does		Transactional	complexity -	
Key System	process, OCM,	technical issue.	clean up or	Describe the	the data exist	What regions,	System Mods,	number of	Determine
Identified as	Training issue or	Transofrmation/S	requires regular	business impact of	(other systems eg.	departments etc.	data integration	estimated hours	prioritization and
Master	other (specify)	QL can be included	monitoring	the data issue	Cognos)	are imacted	mods etc.)	etc.	scoring

Data Governance Sample Time Line

Note this is a complex example with multiple areas

	dy & Workshop Timeline	1	2	1	Е	-	7	0	0	10	11
	Week#	1	3	4	2	ס	/	8	9	10	11
Strategy	Identify Areas of Focus										
	Study -Process and Use Case										<u></u>
	Post Market										
	Customer Service										
Area	Quality										<u></u>
	Sales & CRM										<u></u>
	Manufacturing										
	SFDC										
	Agile										
	Techo Functional Analyst						nufacturinք	g,Notificati			
Client	Techno Functional Analyst 2								SFDC,Remo	ote FE	
									Agile		
IT	Product Hierarchy and Install Base		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Findings											
gile Storie	es										

Thank You

