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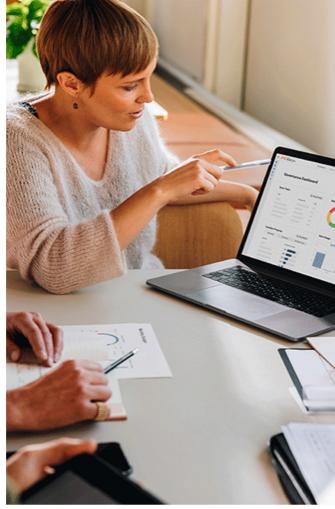
Data Driven: People, Process, Technology

Customers ask

- What do I do?
- Where do I start?
- How do I get to success?
- How do I measure that success?
- How do I build to get to the next milestone?

Our solution

• Active Data Governance Methodology: Our autonomous, continuous improvement methodology guides organizations to help create a data-driven culture through data governance.





How Alation Powers Active Data Governance

Monitor & Measure

- Determine policy conformance
- Monitor curation analysis
- Measure usage & asset creation
- Continually assess data quality
- Run data policy audit reports

Drive Community Collaboration

- Promote trusted data use
- Leverage community knowledge
- Help address needs/questions with conversations
- Determine whether data is fit for purpose / intended use

Apply Policies & Controls

- Implement policies & controls
- Generate appropriate lineage charts
- Build data quality rules & reports
- Enable workflow for data objects, glossary terms, and policies

Establish Governance Framework

- Set vision & mission
- Organize people for data governance
- лII * Continuous Improvement 15 9

Populate Data Catalog

- Ingest metadata (technical, business, lineage)
- Analyze metadata (top users, popular data)
- Determine privacy details data categories & characteristics

Empower Data Stewards

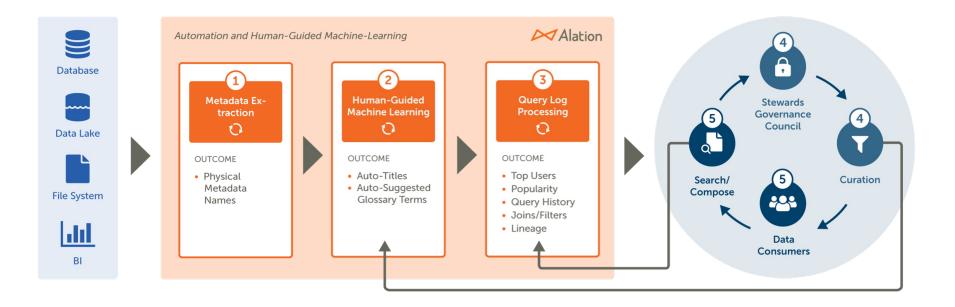
- Recognize and assign stewards
- Automate stewardship processes
- Identify reviewers & workflow approvers
- Enable peer review of data assets

Curate Assets

- Document data quality rules
- Describe data, apply trust flags
- Surface descriptions, quality, etc. to users at point of data use
- Establish data policies, standards, and terms (glossaries)
- Curate data categories & characteristics
- Document record of processing activities



Active Governance Methodology





Build Your Own Data Governance Framework Introduction

Real-World Data Governance – Monthly Webinar Series

November 16, 2023: How to Select the "Right" Metadata to Govern Third Thursday each Month @ 2pm EST – Register at TDAN.com, KIKconsulting.com, DATAVERSITY.net

Upcoming Events

Data Governance and Information Quality East: Dataversity Conference – Washington, DC – December 4th – 8th

Non-Invasive Data Governance / Non-Invasive Data Governance Strikes Again Books

2014: ISBN 9781935504856 / Technics Publications / Amazon.com May 2023: ISBN 9781634623599 / Technics Publications / Amazon.com

Non-Invasive Data Governance / Metadata Governance Online Learning Plans

Latest: Business Glossaries, Data Dictionaries and Data Catalogs DATAVERSITY Training Center – https://training.dataversity.net

KIK Consulting & Educational Services

KIKConsulting.com: Knowledge is King The Home of Non-Invasive Data Governance™

Carnegie Mellon University (CMU)

Adjunct: Heinz College Chief Data Officer (CDataO) – Executive Education







Build Your Own Data Governance Framework Abstract

- In this webinar, I will share ...
 - A Customizable Data Governance Framework
 - How to Determine Appropriate Components
 - How to Determine Appropriate Levels
 - Getting Specific: Filling in the Boxes
 - Leveraging Your New Framework to Govern Data





Build Your Own Data Governance Framework Definitions

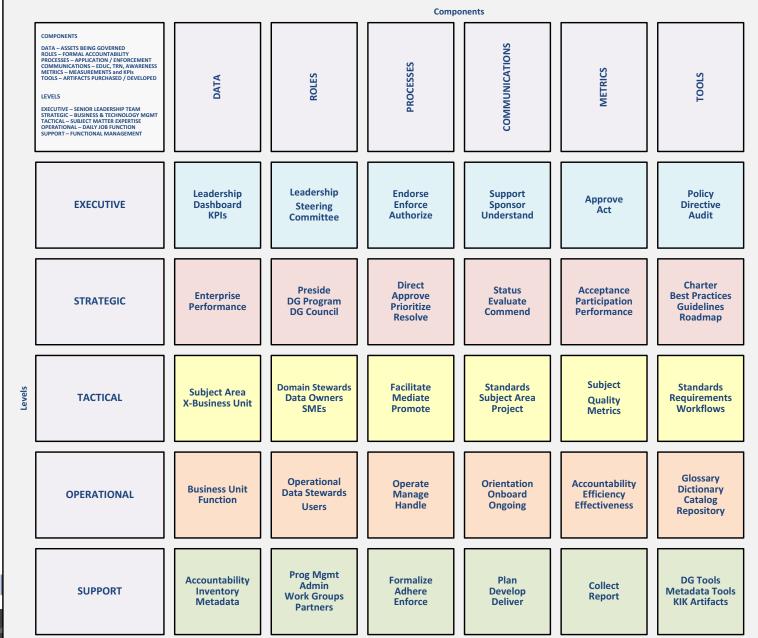
- Data Governance The execution and enforcement of authority over data.
- Data Stewardship Formal accountability for data.
- Data Steward A person held formally accountable for their relationship to the data.
- Data Governance Framework A basic conceptual structure for Data Governance.





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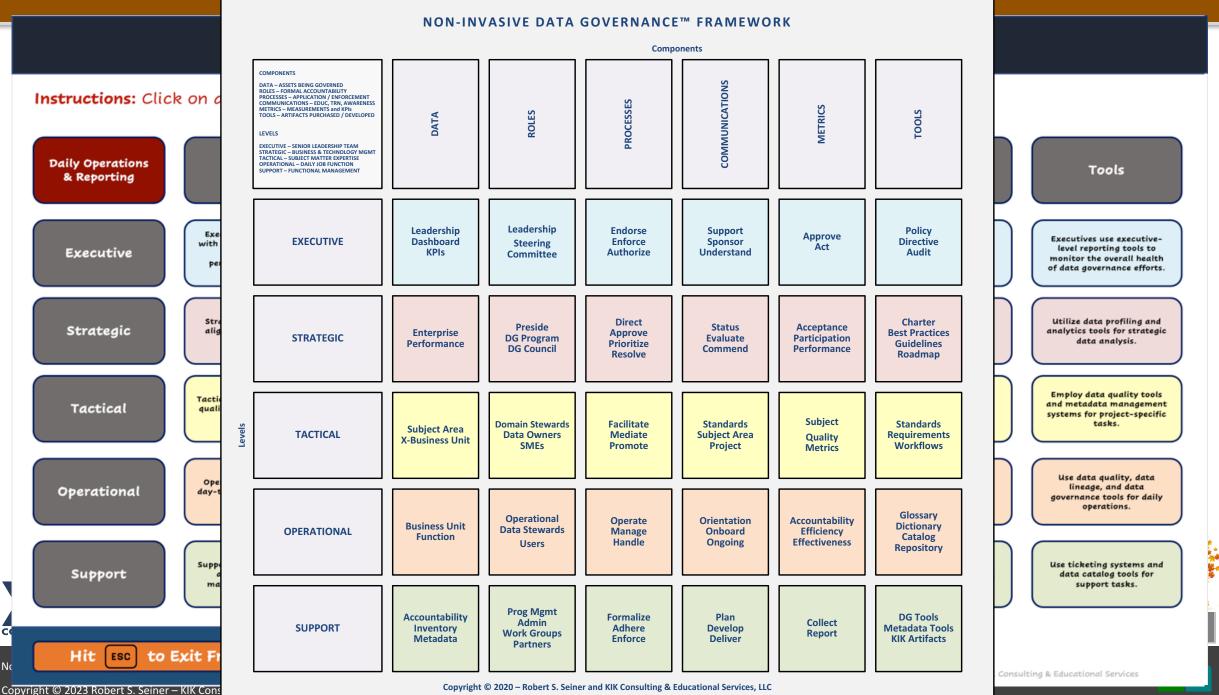
NON-INVASIVE DATA GOVERNANCE™ FRAMEWORK





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Build Your Own Data Governance Framework

A Customizable Data Governance Framework

- Core Components and Levels
- Framework Structure
- Color Coordination with Other Templates
- Getting the Terminology Correct





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- Core Components and Levels
 - Two Dimensional to Start
 - Key Considerations for a Successful Data Governance Program
 - Meant to be Adjusted Per Your Organizational Requirements
 - Who, What, Why, Where, When, and How
 - Who Cares / Who Needs to Care





- Framework Structure
 - Matrix (6 x 5)
 - Multi-Dimensional View
 - Templates
 - Assessment Directs to Bridges





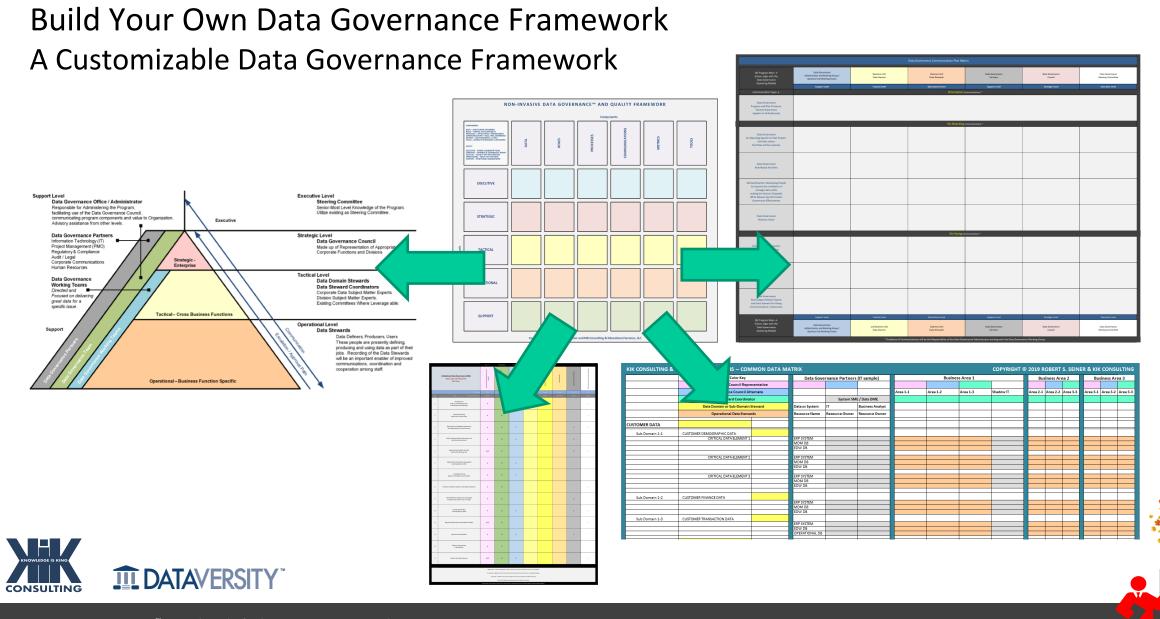
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- Color Coordination with Other Templates
 - Operating Model of Roles and Responsibilities
 - Common Data Matrix
 - RACI (Process) Matrix
 - Communications Plan





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- Getting the Terminology Correct
 - Are the Core Components Complete?
 - Do They Accurately Describe What They Represent?
 - Are the Levels Complete?
 - Do They Accurately Describe Your Organization?
 - Use Language That Makes Sense to Your Organization
 - Don't Be Afraid to Add or Eliminate Components or Levels



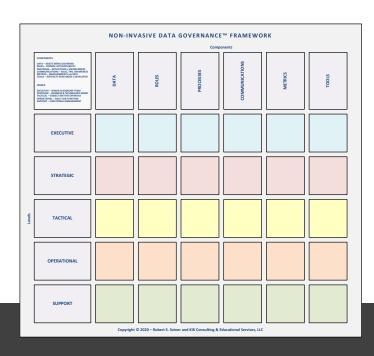




Build Your Own Data Governance Framework

How to Determine Appropriate Components

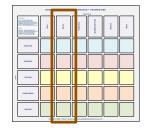
- Data Assets Being Governed and Quality Improved
- Roles Formal Accountability Data Governance and Information Quality
- Processes Application / Enforcement
- Communications Education, Training and Awareness
- Metrics Measurements and Key Performance Indicators (KPIs)
- Tools Artifacts Purchased & Developed
- Business Value Outcome & Results, Expectations



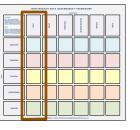


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- Data Assets Being Governed and Quality Improved
 - The scope of the resources that are being governed is the first core component of a Data Governance Framework.
 - Organizations with formal programs can learn from, and should differentiate between data, information, records and knowledge.
- Roles Formal Accountability Data Governance and Information Quality
 - The way people are associated with the roles they play is a significant predictor of the effort required to govern the data.
 - Roles are a back-bone (core component) of many governance and quality tools.







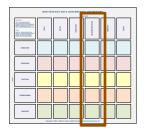
- Processes Application / Enforcement
 - The notion of a singular "Data Governance process" misrepresents the fact that processes are a primary component of DG program success.
 - There is not a single process that is governed, rather there are a series of processes to which governance will be applied.
- Communications Education, Training and Awareness
 - Raising the data awareness of the governance and quality perspective of every person that defines, produces, and uses data is critical to achieving program success.
 - Elevating Data Literacy by helping people to tell stories "about data". Tell stories "with data".
 - Education must focus on policies, handling rules,

best practices, standards, processes, and

role-based governance activities.



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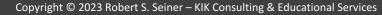


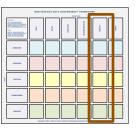


- Metrics Measurements and Key Performance Indicators (KPIs)
 - The impact and value may be financially quantifiable, but this may not always be the case.
 - Measuring efficiency and effectiveness improvements require benchmarks of present state and the governed activity of measuring and reporting results.
 - Requires understanding what needs to be measured at each of the Levels.
- Tools Artifacts Purchased & Developed
 - Tools of DG & DQ enable the program to deliver value to the organization.
 - Organizations use tools they develop internally as well as tools that they've purchased to fill specific needs of their programs.
 - The tools that are developed or purchased are based on practicality, ease-of-use, and the specific goals of the DG & DQ program.

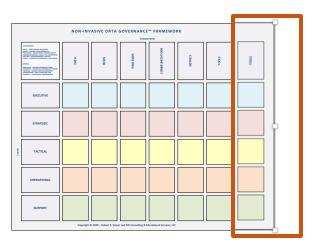






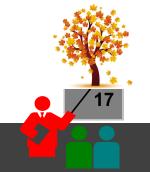


- Business Value Outcome & Results, Expectations New Column?
 - Executive Level Aligns with Business Goals
 - Strategic Level Identifies Valuable Data Assets
 - Tactical Level Establishes Standardized Processes
 - Operational Level Empowers Staff
 - Support Level Ensures Compliance, Mitigates Risks, Protects Reputation





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Build Your Own Data Governance Framework

How to Determine Appropriate Levels

- Executive
- Strategic
- Tactical
- Operational
- Support
- Administrative

Support Level Executive Level Data Governance Office / Administrator Steering Committee Responsible for Administering the Program. Senior-Most Level Knowledge of the Program. Utilize existing as Steering Committee. facilitating use of the Data Governance Council communicating program components and value to Organization. Executive Advisory assistance from other levels Data Governance Partners Strategic Level Information Technology (IT) Data Governance Council Project Management (PMO) Made up of Representation of Appropriate Regulatory & Compliance Corporate Functions and Divisions Audit / Legal Strategic -Corporate Communications Enterprise Human Resources Tactical Level Data Governance Data Domain Stewards Working Teams Data Steward Coordinators Directed and Corporate Data Subject Matter Experts Focused on delivering Division Subject Matter Experts. great data for a Existing Committees Where Leverage able: specific issue Tactical- Cross Business Functions Operational Level Support Data Stewards Data Definers, Producers, Users These people are presently defining, producing and using data as part of their jobs. Recording of the Data Stewards will be an important enabler of improved communications, coordination and cooperation among staff. **Operational – Business Function Specific**



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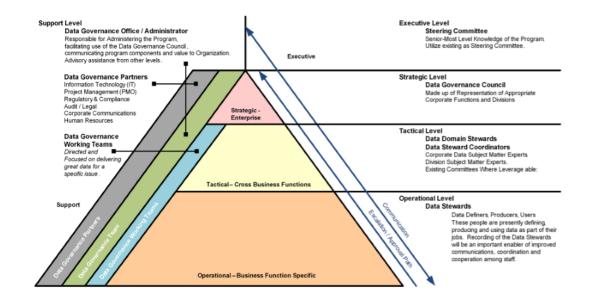
- Executive
 - The Executive level typically consists of people at the highest level.
 - This includes Presidents, Chairs, Senior Vice Presidents, and CXO level positions (meaning CEOs, COOs, ClOs, CDOs, CROs, CMOs, etc.).
 - The Executive Level of an organization often has regular or scheduled meetings as the Steering Committee for the enterprise.
- Strategic
 - The Strategic level typically consists of people that report directly to and are delegated by the Executive level to oversee and direct specific initiatives.
 - This can include Senior Vice Presidents, Vice Presidents, and the people that are recognized as being second-in-command or as representing their part of the organization in the initiative.
 - The Strategic level is accountable to the Executive level for the success of the initiative.



- Tactical
 - The Tactical level typically consists of people that are subject matter experts, facilitators, and potentially decision makers for specific domains of data and information.
 - The Tactical level is delegated or recognized by the Strategic level as people that must be included in and drive decisions that are made regarding data in their domain.
- Operational
 - The Operational level typically consists of every person in the organization that has a relationship to data and that is (or will be) held formally accountable for that relationship.
 - The relationships include the definition, production, and/or use of data and information.
 - If an individual does any or all of these activities as part of their job, it is a requirement that these people follow policy, best practices and standards for that relationship.



- Support
 - Data Governance Partners
 - Data Governance Working Team
 - Data Governance Administration
- Administrative
 - Data Governance Administrator
 - Data Governance Manager
 - Data Governance Lead
 - Data Governance Team or Office







Build Your Own Data Governance Framework

Getting Specific: Filling in the Boxes

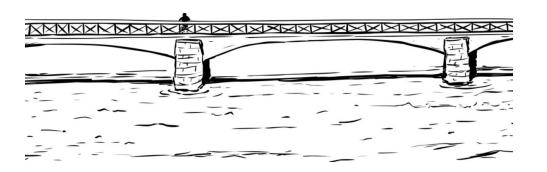
- Bridges
- Components at Each Level
- At Some Point ... You Will Need to Know This Information.
- Multiple Dimensions
- Artifacts and Templates





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- Bridges
 - A Framework is a "Basic Conceptual Structure" *Merriam-Webster Dictionary*
 - Application of a Framework Must Address Where the Rubber Hits the Road
 - Planning for Each Component at Each Level (Bridge)
 - Knowledge-Base and Intelligence for Each Bridge
 - Dimensional Views of Each Bridge
 - Artifacts and Templates for the Appropriate Bridges





- Components at Each Level
 - Data Component at Each Level Data Strategy
 - Roles Component at Each Level Operating Model
 - Process Component at Each Level Governance Activ
 - Comm Additional Bridge Questions to Consider: Tools
 Metri How should the data governance tools needed at each organizational level? How should the data governance tools be integrated and interoperable? What are the training and support needs for using tools?

Additional Bridge Questions to Consider: Metrics

What are the KPIs and metrics relevant to each level's objectives?

How should the data governance metrics be collected, analyzed, reported?

What are the thresholds and targets for data governance metrics?

Additional Bridge Questions to Consider: Data

What data is critical for decision-making at each level? How should data be accessed, shared, and used at each level? What data quality/integrity standards are required at each level?

Additional Bridge Questions to Consider: Roles

What are the data-related responsibilities and accountabilities?

How should data-related communication and collaboration be facilitated?

What skills, knowledge, and training are required for each role?

Additional Bridge Questions to Consider: Processes

What are the data-related processes and workflows?

How should data-related decision-making and escalation occur?

What are the data governance compliance and audit mechanisms?

Additional Bridge Questions to Consider: Communications

What are the data communication needs and requirements?

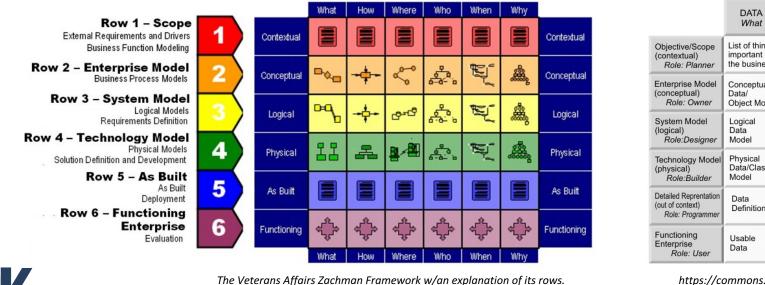
How should data-related information be disseminated and shared?

What is the data governance communication plan and strategy?



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- At Some Point ... You Will Want to Know the Information ...
 - "... Every Component from Every Perspective"
 - John Zachman ... about the Zachman Framework for Enterprise Architecture
 - You Will Want to Know About Every Data Governance Component from Every Level



	DATA What	FUNCTION How	NETWORK Where	PEOPLE Who	TIME When	MOTIVATION Why
Objective/Scope (contextual) <i>Role: Planner</i>	List of things important in the business	List of Business Processes	List of Business Locations	List of important Organizations	List of Events	List of Business Goal & Strategies
Enterprise Model (conceptual) <i>Role: Owner</i>	Conceptual Data/ Object Model	Business Process Model	Business Logistics System	Work Flow Model	Master Schedule	Business Plan
System Model (logical) <i>Role:Designer</i>	Logical Data Model	System Architecture Model	Distributed Systems Architecture	Human Interface Architecture	Processing Structure	Business Rule Model
Technology Model (physical) <i>Role:Builder</i>	Physical Data/Class Model	Technology Design Model	Technology Architecture	Presentation Architecture	Control Structure	Rule Design
Detailed Reprentation (out of context) Role: Programmer	Data Definition	Program	Network Architecture	Security Architecture	Timing Definition	Rule Speculation
Functioning Enterprise <i>Role: User</i>	Usable Data	Working Function	Usable Network	Functioning Organization	Implemented Schedule	Working Strategy

https://commons.wikimedia.org/wiki/File:Zachman_Framework_Basics.jpg.



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DATAVERSITY

- Multiple Dimensions
 - Organization Industry Finance, Education, Manufacturing, Services, Retail, ...
 - Organization Size Large >400, Medium >200, Small <200, ...
 - Organization Type Public, Private, For Profit, Not For Profit, ...
 - Governing Style Command-and-Control, Traditional, Non-Invasive, ...
 - Organizational Age Established >5, Young <5, Start Up <1, ...
 - Location United States, Nation, ...
 - Worldreach Global, National, Regional, ...
 - Affiliations Parent Organization, Child Organization, Partnership, ...



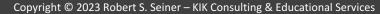


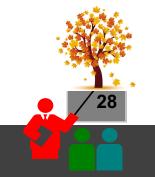
- Artifacts and Templates
 - Specific to Each Bridge
 - Links to Important Documents
 - Links to External Content
 - Links to Other Parts of the Framework
 - Additional Intelligence



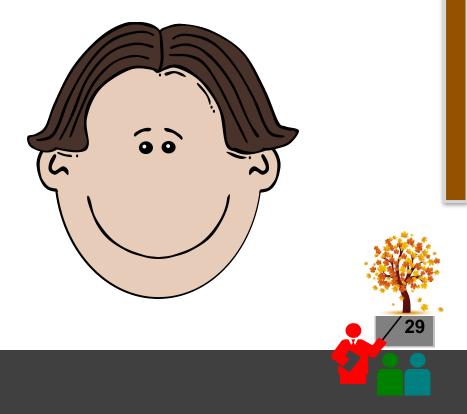
- Face of Your Data Governance Program
- Why the Selection of Framework and Approach is Critical
- How to Select the Appropriate Framework and Approach
- Leveraging Your Framework to Govern Data







- Face of Your Data Governance Program
 - Interface for Access to Data Governance Information
 - Interface to Improve Data Literacy
 - Interface to Improve Engagement
 - Repository of Data Governance Artifacts and Intelligence





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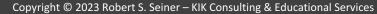
- Why the Selection of Framework and Approach is Critical
 - The Approach Will Impact How the Program is Perceived / Accepted
 - People Have Day Jobs and May Push Back on "More Work"
 - "Non-Invasive" May Be Misunderstood ... Explain It Well
 - "Everybody is a Data Steward" May Be Misunderstood ... Explain It Well



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- How to Select the Appropriate Framework and Approach
 - Understand What Will Be Acceptable to Your Organization
 - Consider Putting Significant Effort Toward Messaging
 - Consider What Has Worked / Has Not Worked in the Past
 - Disruption (or Being Viewed That Way) is a Risk Proposition





- Leveraging Your Framework to Govern Data
 - Assessment Directed Use of Framework
 - Align Framework to Present Artifacts
 - Stoplight (Red/Yellow/Green) Your Bridges
 - Maturity Evaluation Based on Framework









Build Your Own Data Governance Framework Summary

- In the webinar, I shared ...
 - A Customizable Data Governance Framework
 - How to Determine Appropriate Components
 - How to Determine Appropriate Levels
 - Getting Specific: Filling in the Boxes
 - Leveraging Your New Framework to Govern Data

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Build Your Own Data Governance Framework Q & A - Contact Information

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thank you



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