

Real-World Data Governance

Quality as the Rhythm of Governance

Monthly Webinar Series Hosted by DATAVERSITY

Robert S. Seiner – KIK Consulting

June 20, 2024 – 11:00 a.m. PT / 2:00 p.m. ET



An aerial night view of a city skyline, likely San Francisco, featuring the Golden Gate Bridge on the left and the Transamerica Pyramid in the center. The city lights are reflected in the water. In the top right corner, there is a grid of white dots.

Modern Data Quality Interoperability and Integration With Data Governance

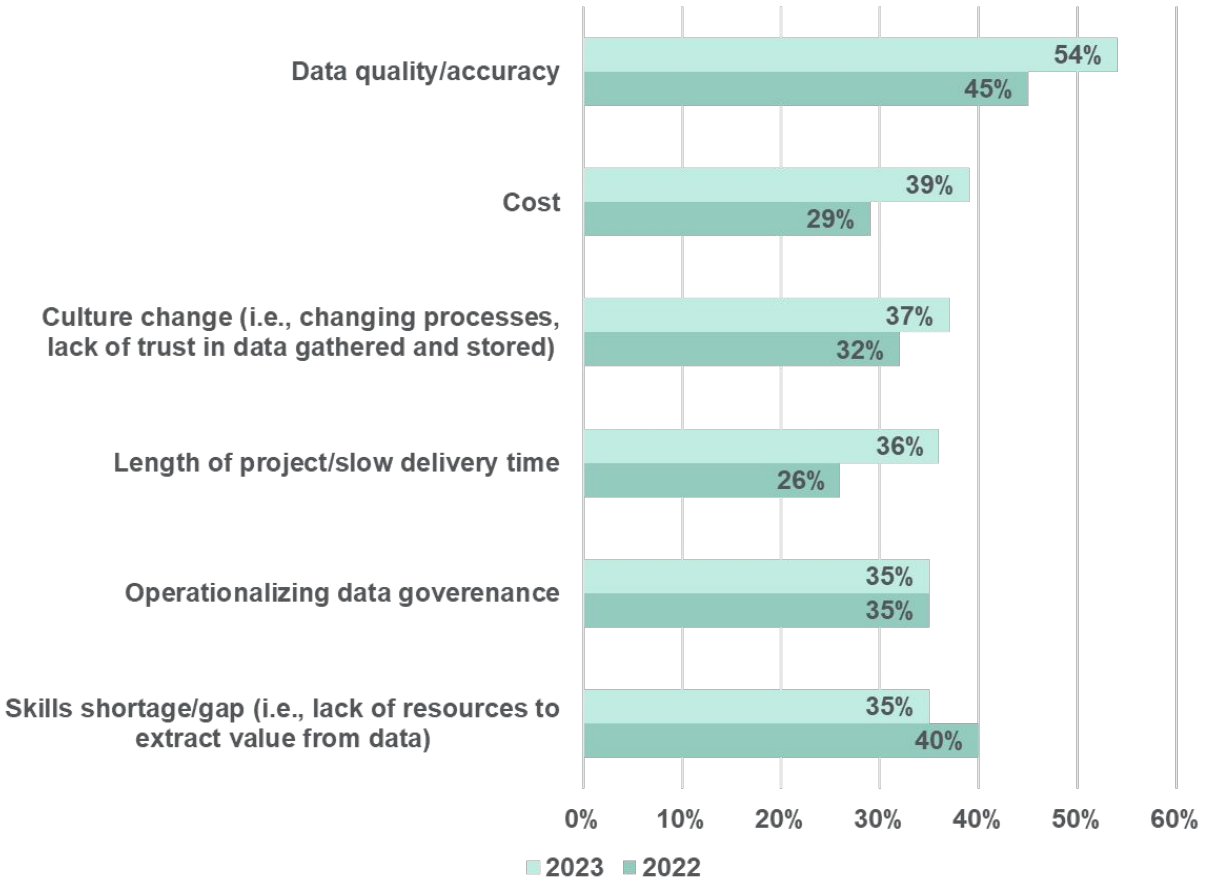
Danny Sandwell – Solutions Marketing, erwin by Quest

2023 State of Data Governance

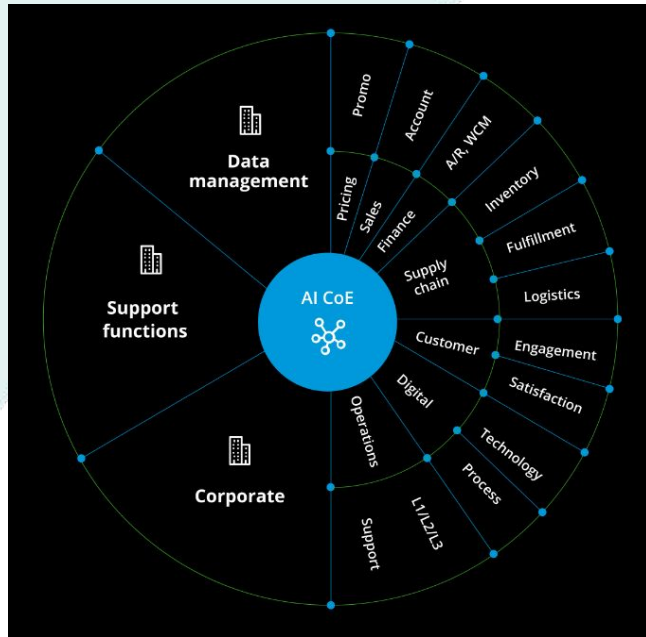
Key Drivers



Key Challenges



Governance Initiatives Driving DQ Integration



**RESPONSIBLE
ADOPTION OF
AI & MACHINE
LEARNING**

**DELIVERY OF
PRESCRIPTIVE
DATA
PRODUCTS**



**HOLLISTIC
DATA VALUE
SCORING**

**ADOPTION OF
INTERNAL AND
EXTERNAL DATA
MARKETPLACES**





AUGMENTED DATA QUALITY

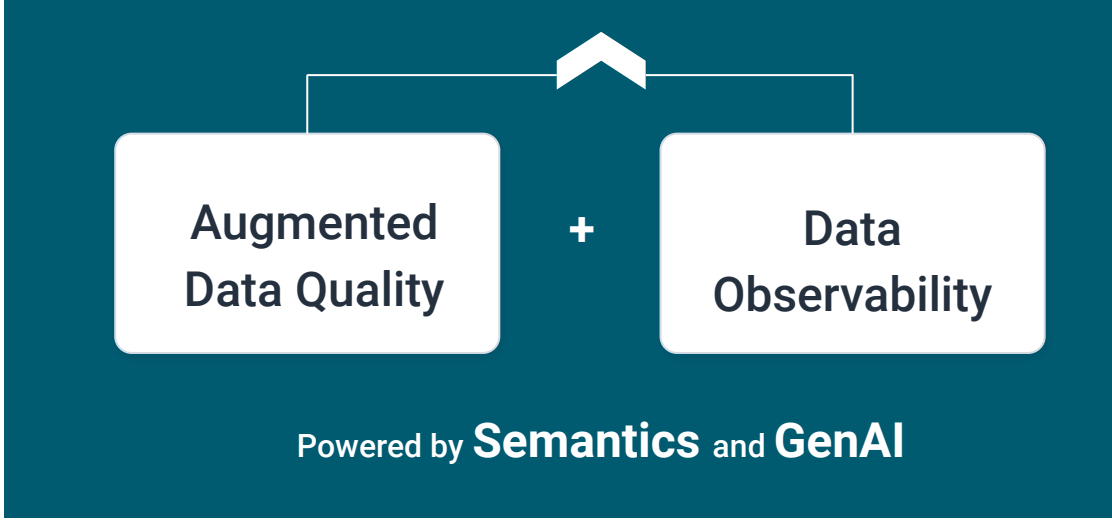
Improve confidence in consumption across business processes.



DATA OBSERVABILITY

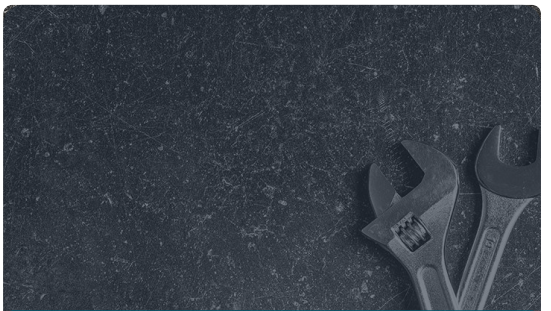
Automated monitoring and trend analysis for engineers on reliability issues.

Convergence is Needed to Elevate Data Quality



SEMANTICS LAYER

Auto-discover rules and leverage standardized checks on business terms.



GenAI

Augmented, plus GenAI enabled Remediation combined with the power of Semantics

A close-up, grayscale image of a telescope, symbolizing observation and discovery.

OBSERVE

1

A grayscale image of a compass with a needle pointing upwards, symbolizing measurement and direction.

MEASURE

2

A grayscale image of a magnifying glass over an open book, symbolizing discovery and investigation.

DISCOVER

3

A grayscale image of a wrench, symbolizing remediation and repair.

REMEDiate

4

**KEY DATA QUALITY CAPABILITIES REQUIRED TO DELIVER
RELIABLE AND ACCURATE DATA**

OBSERVE

MEASURE

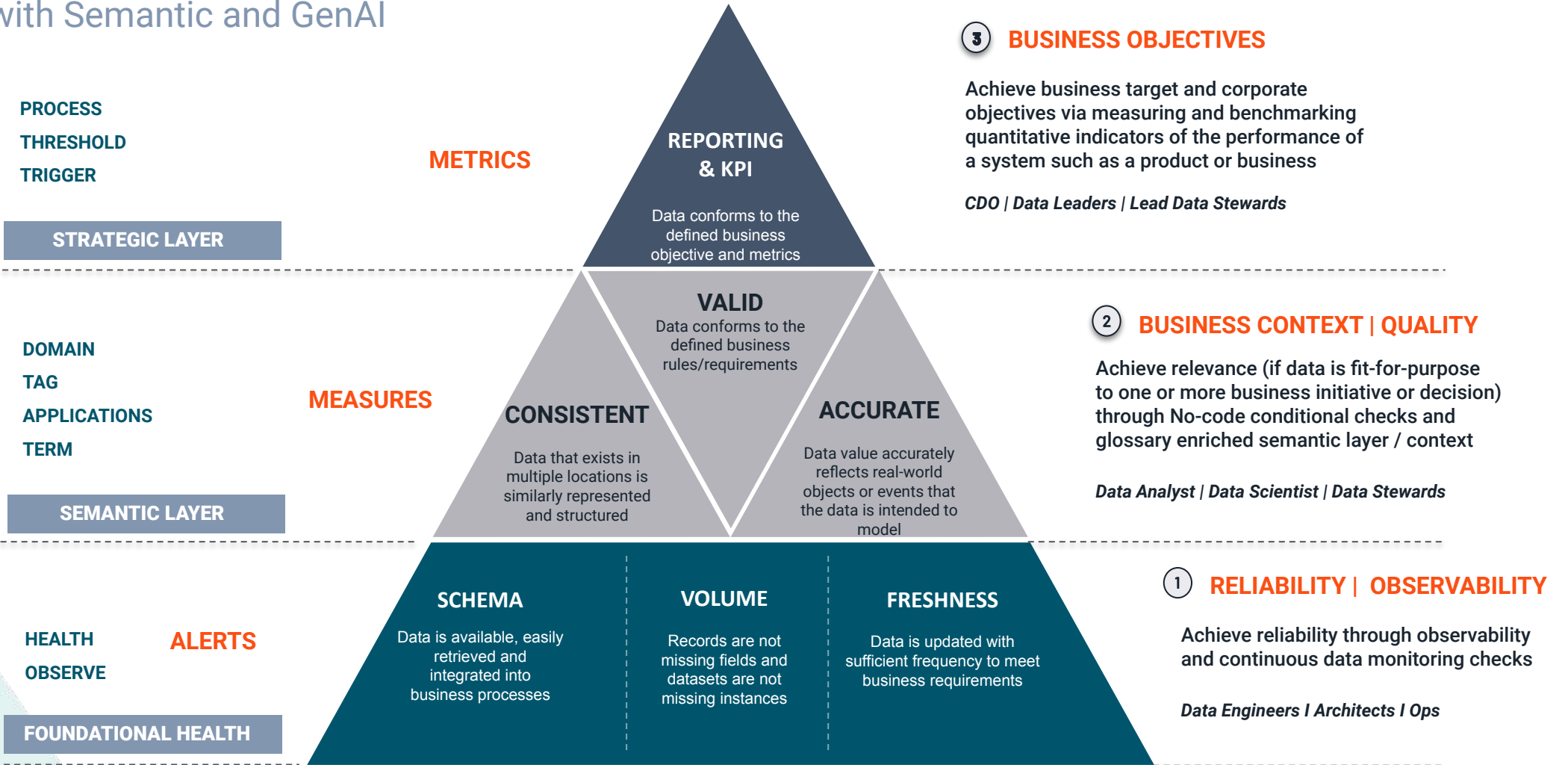
DISCOVER

REMEDiate

Modern Data Quality Framework

Powered with Semantic and GenAI

DISCOVERY & COLLABORATE



OBSERVE

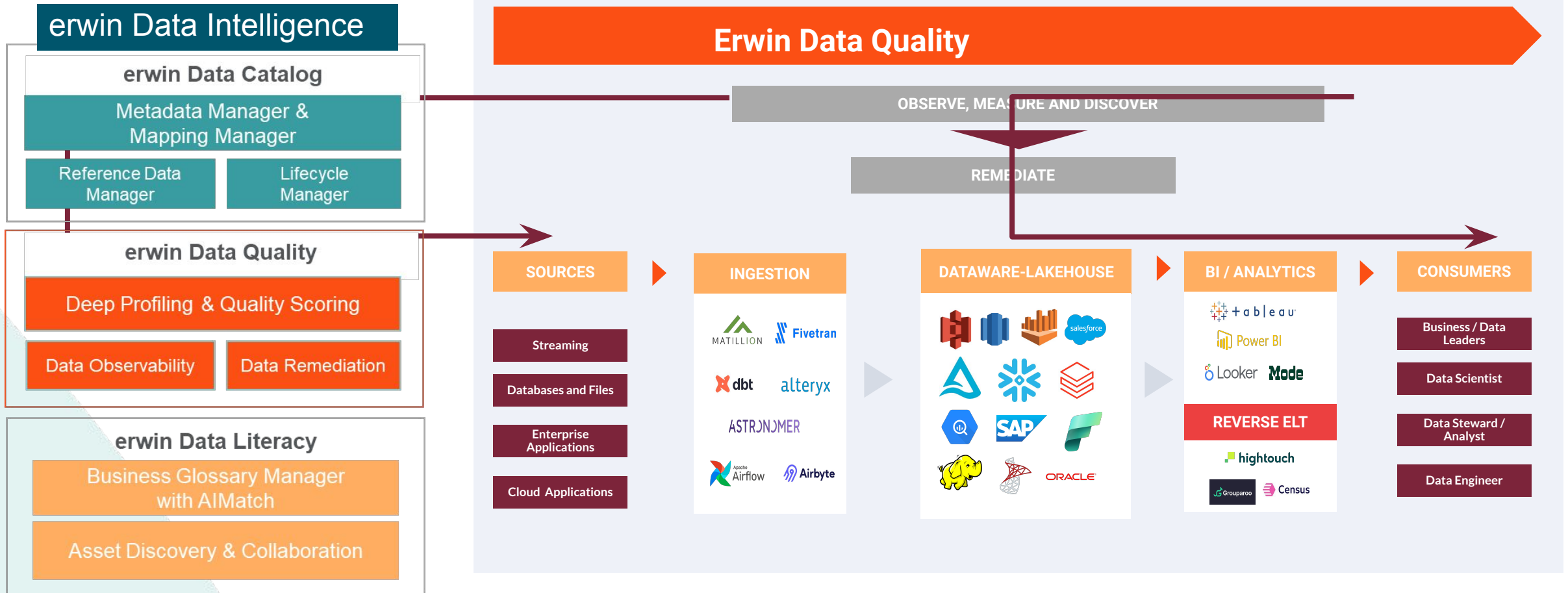
MEASURE

DISCOVER

REMEDiate

erwin Data Intelligence: Modern Data Quality Integration

Powered with Semantic and GenAI



Please visit us at erwin.com



Quality as the Rhythm of Governance

Introduction

Real-World Data Governance – Monthly Webinar Series

July 18, 2024: Fostering a Data-Literate Culture with Data Governance

Third Thursday each Month @ 2pm EST – Register at TDAN.com, KIKconsulting.com, DATAVERSITY.net

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

2014: ISBN 9781935504856 / TechnicsPub.com / Amazon.com

2023: ISBN 9781634623599 / TechnicsPub.com / Amazon.com

Non-Invasive Data Governance / Metadata Governance Online Learning Plans

Popular: Business Glossaries, Data Dictionaries and Data Catalogs

DATAVERSITY Training Center – <https://training.dataversity.net>

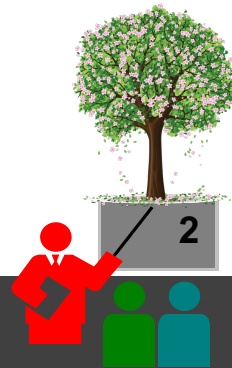
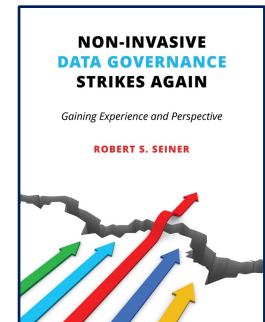
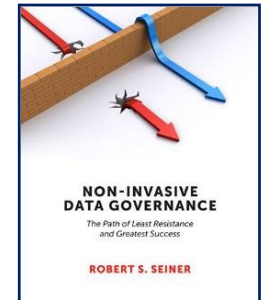
KIK Consulting & Educational Services

[KIKConsulting.com](https://www.kikconsulting.com)

The Home of Non-Invasive Data Governance™

Carnegie Mellon University (CMU)

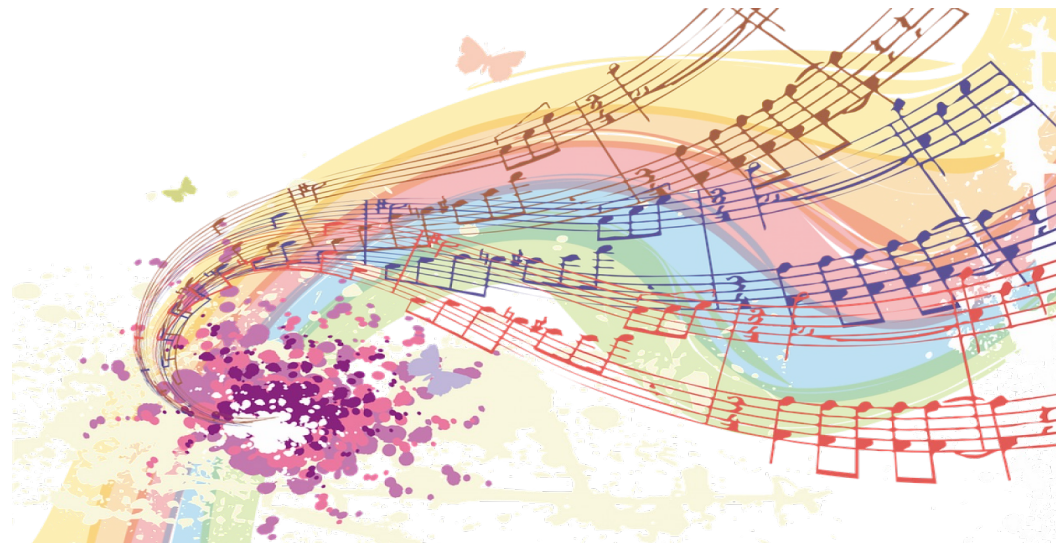
Adjunct: Heinz College Executive Education – **Chief Data and AI Officer (CDAIO)** Certificate Program



Quality as the Rhythm of Governance

Abstract

- In this webinar, I will share ...
 - The Pivotal Role of Data Quality in Successful Governance Practices
 - How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance
 - Techniques for Integrating Quality Measures into an Existing Governance Framework
 - Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat
 - Examples of the Transformative Impact of Quality-Driven Data Governance



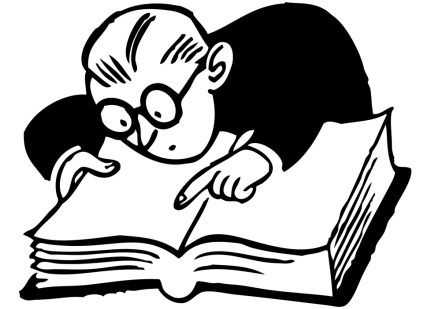
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Quality as the Rhythm of Governance

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 Quality –
 - Refers to the condition of a set of values of qualitative or quantitative variables.
 - High-quality data is data that is fit for its intended uses in operations, decision making, and planning. It typically is accurate, complete, reliable, relevant, and timely.
 - Data quality can be defined and measured through various dimensions including accuracy, completeness, consistency, timeliness, and uniqueness.
 - The goal of data quality management is to ensure that data is of high quality and reliable for its intended use.



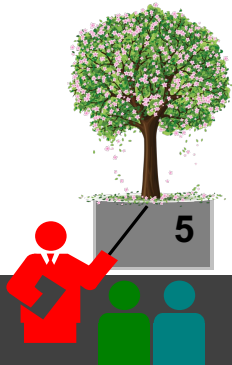
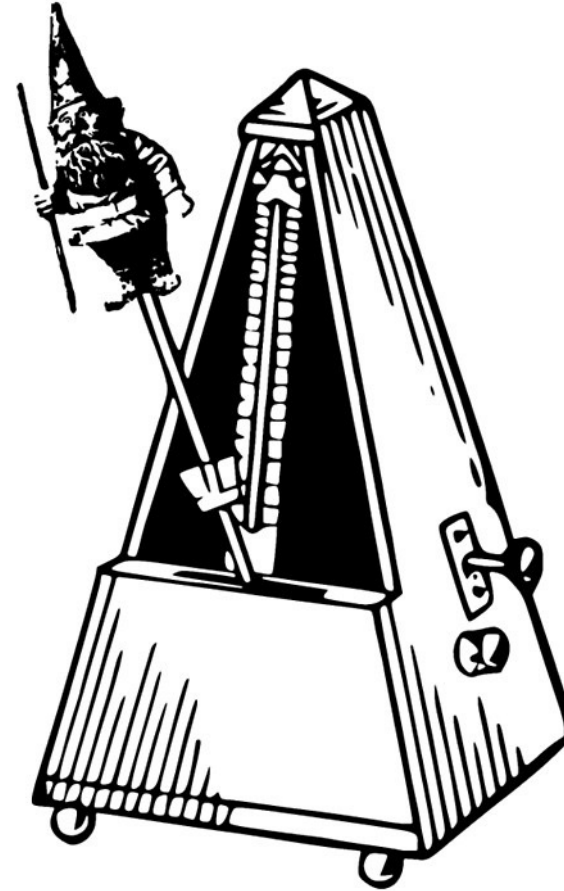
Data Quality Definition from DAMA International



Quality as the Rhythm of Governance

The Pivotal Role of Data Quality in Successful Governance Practices

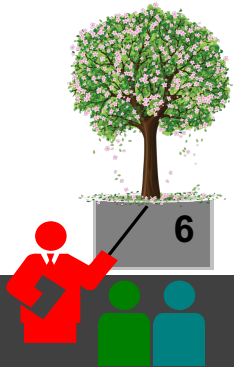
- Foundation of Trust and Reliability
- Compliance and Risk Management
- Enhanced Decision-Making
- Operational Efficiency
- Improved Customer Satisfaction



Quality as the Rhythm of Governance

The Pivotal Role of Data Quality in Successful Governance Practices

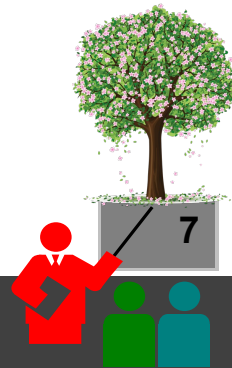
- Foundation of Trust and Reliability
 - Consistent and Accurate Data
 - Enhanced Decision-Making Capabilities
 - Building Stakeholder Confidence
 - Streamlined Operations and Efficiency
 - Mitigating Risks and Ensuring Compliance



Quality as the Rhythm of Governance

The Pivotal Role of Data Quality in Successful Governance Practices

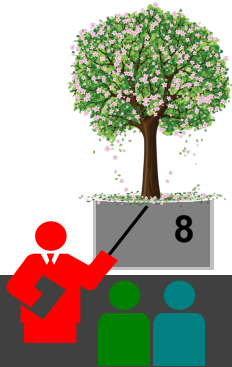
- Compliance and Risk Management
 - Ensuring Regulatory Adherence
 - Identifying and Mitigating Potential Risks
 - Protecting Sensitive Information
 - Reducing Legal and Financial Penalties
 - Enhancing Transparency and Accountability



Quality as the Rhythm of Governance

The Pivotal Role of Data Quality in Successful Governance Practices

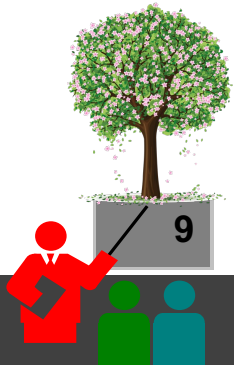
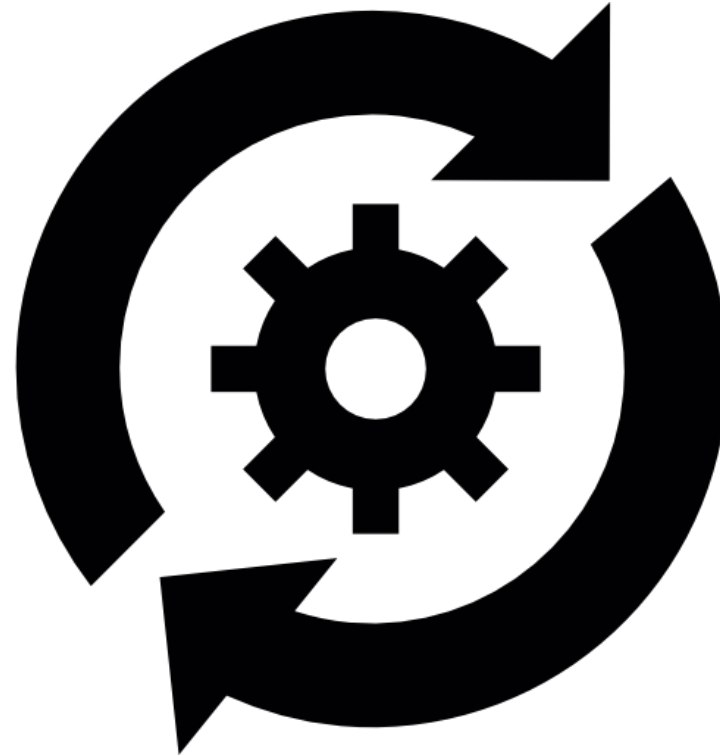
- Enhanced Decision-Making
 - Providing Accurate Insights
 - Supporting Strategic Planning
 - Enabling Timely Responses
 - Improving Operational Efficiency
 - Facilitating Predictive Analysis



Quality as the Rhythm of Governance

The Pivotal Role of Data Quality in Successful Governance Practices

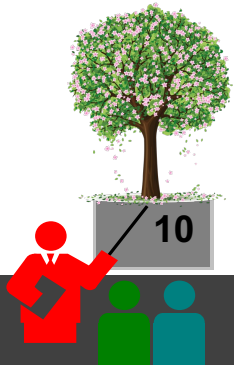
- Operational Efficiency
 - Streamlining Processes
 - Reducing Errors
 - Minimizing Redundancies
 - Enhancing Productivity
 - Optimizing Resource Allocation



Quality as the Rhythm of Governance

The Pivotal Role of Data Quality in Successful Governance Practices

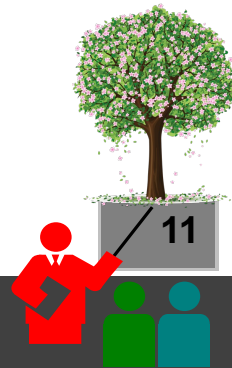
- Improved Customer Satisfaction
 - Personalizing Customer Experiences
 - Reducing Service Errors
 - Ensuring Accurate Information
 - Speeding Up Response Times
 - Building Customer Trust



Quality as the Rhythm of Governance

How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance

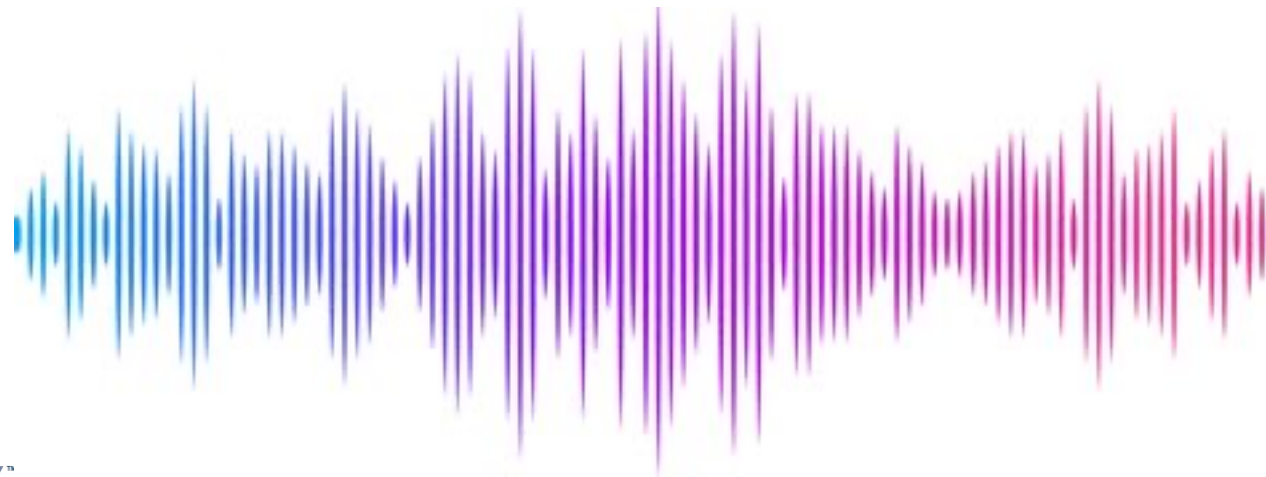
- Establishes Consistent Data Validation Processes
- Promotes Regular Data Audits and Cleansing
- Ensures Continuous Monitoring and Improvement
- Aligns Data Practices with Business Objectives
- Fosters a Culture of Accountability and Precision



Quality as the Rhythm of Governance

How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance

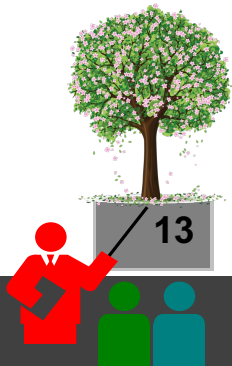
- Establishes Consistent Data Validation Processes
 - Standardizing Data Entry Practices
 - Automating Error Detection
 - Implementing Regular Data Audits
 - Enforcing Data Quality Rules
 - Providing Real-Time Validation Feedback



Quality as the Rhythm of Governance

How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance

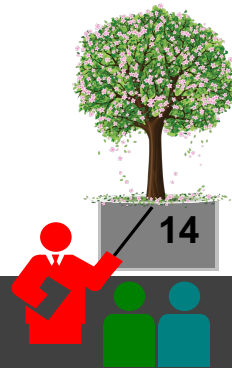
- Promotes Regular Data Audits and Cleansing
 - Scheduling Routine Data Reviews
 - Identifying and Correcting Data Errors
 - Removing Duplicate Entries
 - Updating Outdated Information
 - Ensuring Data Completeness and Accuracy



Quality as the Rhythm of Governance

How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance

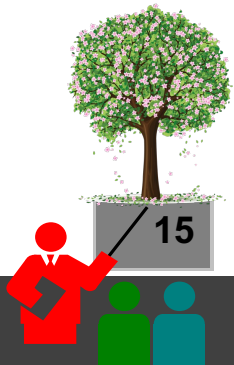
- Ensures Continuous Monitoring and Improvement
 - Real-Time Data Quality Tracking
 - Identifying Trends and Anomalies
 - Automated Alerts for Data Issues
 - Regular Feedback Loops
 - Ongoing Adjustment of Data Practices



Quality as the Rhythm of Governance

How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance

- Aligns Data Practices with Business Objectives
 - Ensures Data Relevance to Strategic Goals
 - Facilitates Data-Driven Decision Making
 - Integrates Data with Business Processes
 - Supports Achieving Business Targets
 - Harmonizes Data and Business Strategy



Quality as the Rhythm of Governance

How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance

- Fosters a Culture of Accountability and Precision
 - Establishing Clear Data Ownership
 - Setting Defined Quality Standards
 - Encouraging Accurate Data Entry
 - Implementing Regular Performance Reviews
 - Promoting Transparency in Data Handling



Quality as the Rhythm of Governance

Techniques for Integrating Quality Measures into an Existing Governance Framework

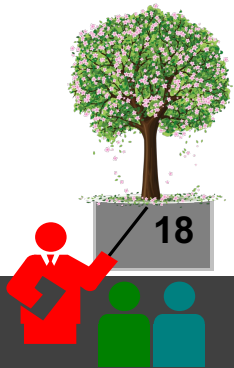
	Data	Roles	Processes	Communications	Metrics	Tools
Executive						
Strategic						
Tactical						
Operational						
Support						



Quality as the Rhythm of Governance

Techniques for Integrating Quality Measures into an Existing Governance Framework

- Establishing Data Quality Standards
 - Defining Clear Quality Benchmarks
 - Aligning Standards with Business Goals
 - Involving Stakeholders in Standard Development
 - Regularly Reviewing and Updating Standards
 - Communicating Standards Across the Organization



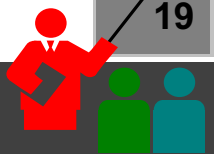
Quality as the Rhythm of Governance

Techniques for Integrating Quality Measures into an Existing Governance Framework

- Conducting Regular Data Assessments
 - Scheduling Routine Data Quality Checks
 - Utilizing Automated Assessment Tools
 - Comparing Data Against Quality Benchmarks
 - Identifying and Addressing Data Anomalies
 - Reporting Assessment Results to Stakeholders



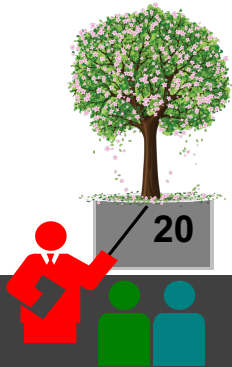
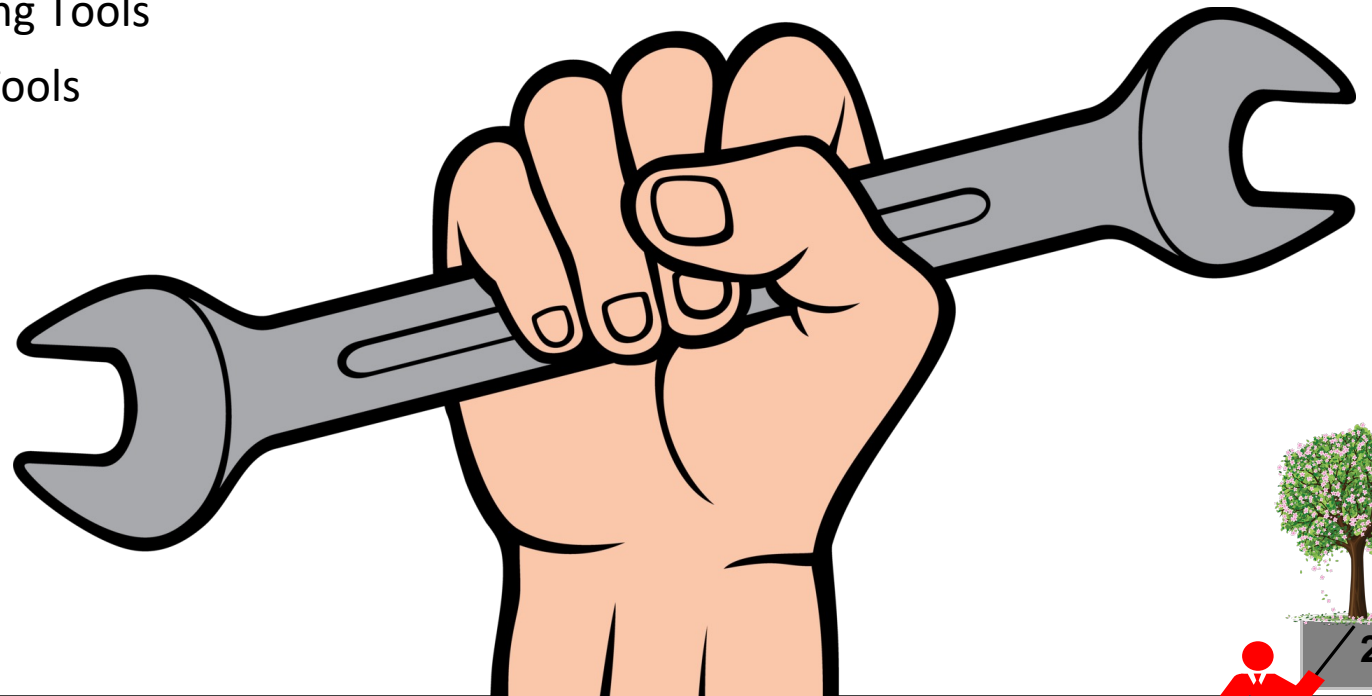
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Quality as the Rhythm of Governance

Techniques for Integrating Quality Measures into an Existing Governance Framework

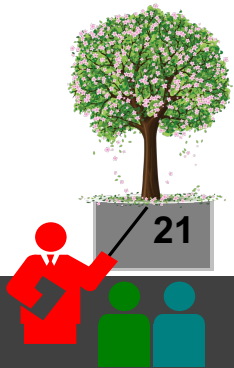
- Deploying Data Quality Tools
 - Implementing Automated Data Validation
 - Utilizing Real-Time Data Quality Monitoring
 - Integrating Data Cleansing Solutions
 - Leveraging Data Profiling and Reporting Tools
 - Ensuring Scalability and Flexibility of Tools



Quality as the Rhythm of Governance

Techniques for Integrating Quality Measures into an Existing Governance Framework

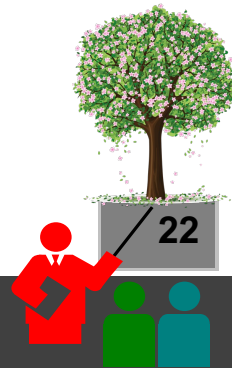
- Empowering Data Stewardship
 - Providing Comprehensive Training Programs
 - Clearly Defining Roles and Responsibilities
 - Encouraging Collaboration and Communication
 - Offering Continuous Support and Resources
 - Recognizing and Rewarding Stewardship Efforts



Quality as the Rhythm of Governance

Techniques for Integrating Quality Measures into an Existing Governance Framework

- Fostering Continuous Improvement
 - Encouraging Regular Feedback Loops
 - Implementing Iterative Data Quality Reviews
 - Adapting to New Technologies and Practices
 - Promoting a Culture of Innovation
 - Setting and Reassessing Quality Goals



Quality as the Rhythm of Governance

Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat

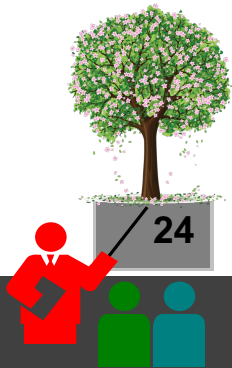
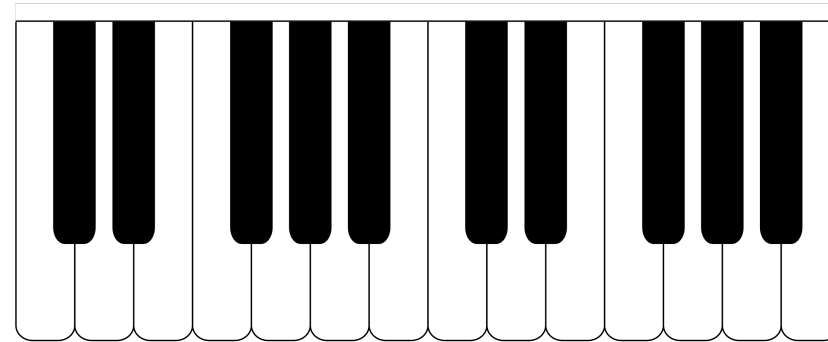
- Defining Key Data Quality Metrics
- Implementing Automated Data Quality Checks
- Conducting Regular Data Quality Audits
- Establishing Data Quality Dashboards
- Utilizing Data Quality Reporting Tools



Quality as the Rhythm of Governance

Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat

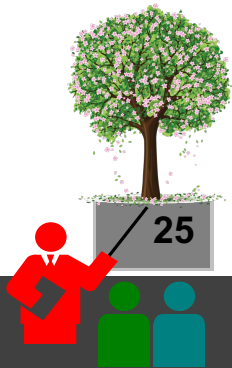
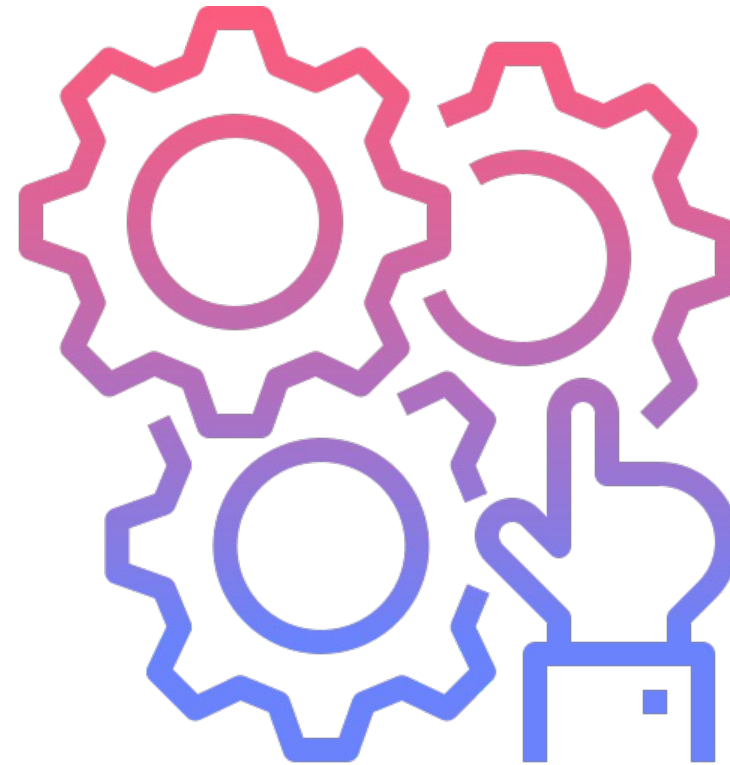
- Defining Key Data Quality Metrics
 - Accuracy of Data Entries
 - Completeness of Information
 - Consistency Across Data Sources
 - Timeliness of Data Updates
 - Relevance to Business Objectives



Quality as the Rhythm of Governance

Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat

- Implementing Automated Data Quality Checks
 - Real-Time Data Validation Processes
 - Consistent Monitoring for Anomalies
 - Scheduled Data Quality Audits
 - Integration with Existing Data Systems
 - Automated Reporting and Alerts



Quality as the Rhythm of Governance

Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat

- Conducting Regular Data Quality Audits
 - Scheduling Periodic Data Reviews
 - Identifying and Correcting Data Issues
 - Assessing Data Against Quality Standards
 - Documenting Findings and Recommendations
 - Engaging Stakeholders in the Audit Process



Quality as the Rhythm of Governance

Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat

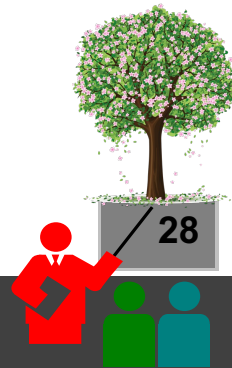
- Establishing Data Quality Dashboards
 - Visualizing Key Data Quality Metrics
 - Providing Real-Time Data Insights
 - Customizing Views for Different Stakeholders
 - Tracking Data Quality Trends Over Time
 - Facilitating Data-Driven Decision Making



Quality as the Rhythm of Governance

Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat

- Utilizing Data Quality Reporting Tools
 - Generating Comprehensive Data Quality Reports
 - Customizing Reports for Different Stakeholders
 - Automating Regular Report Generation
 - Highlighting Key Data Quality Issues
 - Tracking Progress Over Time with Historical Data



Quality as the Rhythm of Governance

Summary

- In the webinar, I shared ...
 - The Pivotal Role of Data Quality in Successful Governance Practices
 - How a Rhythm of Quality Enhances Data Reliability, Accuracy, and Relevance
 - Techniques for Integrating Quality Measures into an Existing Governance Framework
 - Strategies for Measuring and Monitoring Data Quality to Maintain a Consistent Beat
 - Examples of the Transformative Impact of Quality-Driven Data Governance



Quality as the Rhythm of Governance

Q & A - Contact Information

- Robert S. Seiner

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rseiner@kikconsulting.com @RSeiner



Thank you



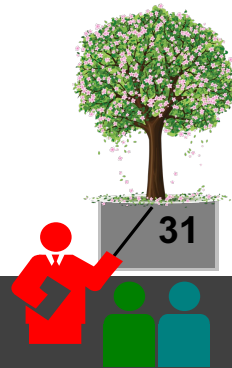
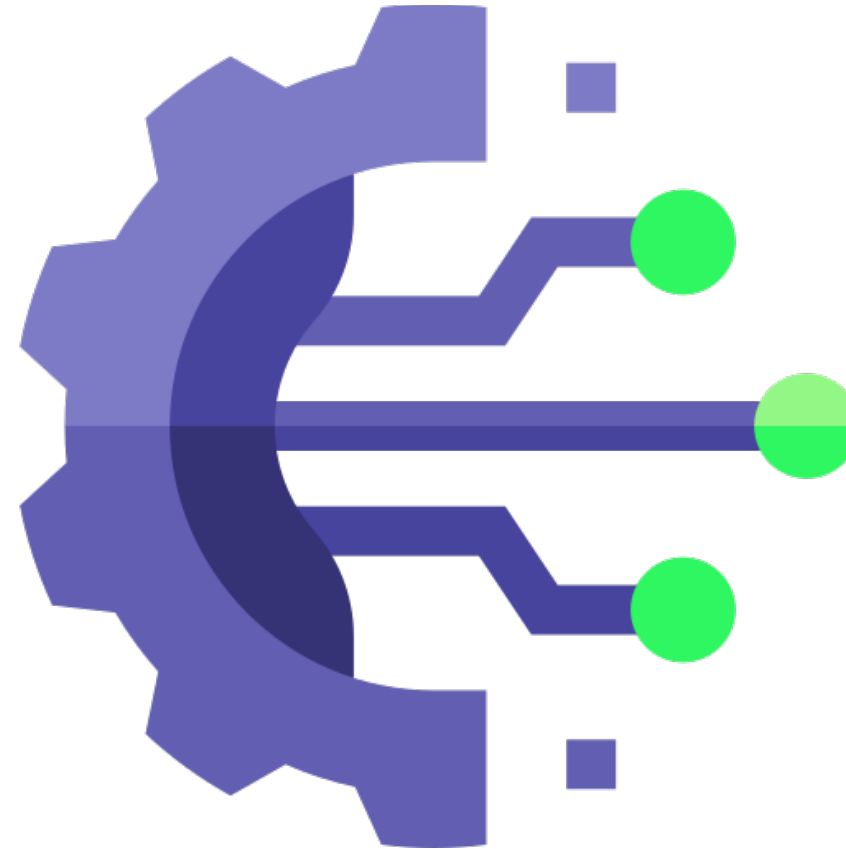
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Quality as the Rhythm of Governance

Examples of the Transformative Impact of Quality-Driven Data Governance

- Enhanced Decision-Making Accuracy
- Improved Regulatory Compliance
- Increased Operational Efficiency
- Elevated Customer Satisfaction
- Greater Data-Driven Innovation



Quality as the Rhythm of Governance

Examples of the Transformative Impact of Quality-Driven Data Governance

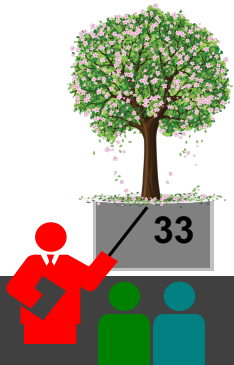
- Enhanced Decision-Making Accuracy
 - Reliable Data Sources: Ensures decisions are based on accurate and trustworthy information.
 - Reduced Errors: Minimizes the risk of mistakes in analysis and interpretation.
 - Informed Strategies: Supports strategic planning with precise and relevant data insights.



Quality as the Rhythm of Governance

Examples of the Transformative Impact of Quality-Driven Data Governance

- Improved Regulatory Compliance
 - Accurate Reporting: Ensures all regulatory reports are precise and timely.
 - Audit Readiness: Keeps data well-organized and easily accessible for audits.
 - Risk Mitigation: Reduces the risk of non-compliance and associated penalties.



Quality as the Rhythm of Governance

Examples of the Transformative Impact of Quality-Driven Data Governance

- Increased Operational Efficiency
 - Streamlined Processes: Reduces redundancies and accelerates workflows.
 - Resource Optimization: Ensures better use of time and resources.
 - Faster Decision Making: Enhances the speed and accuracy of operational decisions.



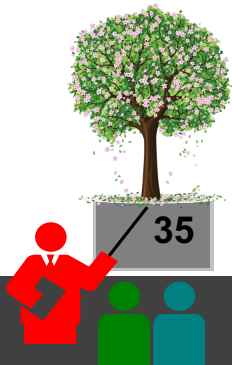
EFFICIENCY



Quality as the Rhythm of Governance

Examples of the Transformative Impact of Quality-Driven Data Governance

- Elevated Customer Satisfaction
 - Accurate Information: Ensures customers receive precise and up-to-date information.
 - Responsive Service: Enables quicker and more efficient customer service.
 - Personalized Experiences: Uses reliable data to tailor services to individual customer needs.



Quality as the Rhythm of Governance

Examples of the Transformative Impact of Quality-Driven Data Governance

- Greater Data-Driven Innovation
 - Enhanced Insights: Reliable data leads to more accurate and insightful analysis, driving new ideas.
 - Faster Prototyping: High-quality data allows for quicker testing and validation of innovative solutions.
 - Market Adaptability: Better data supports agile responses to market changes and customer demands.

