



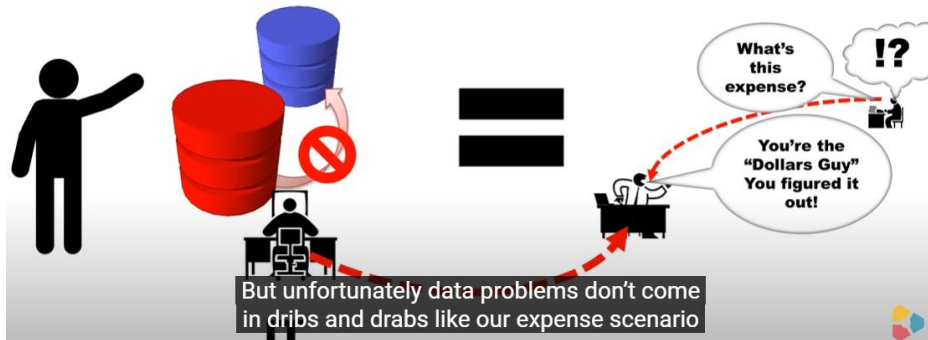
Data Quality & Governance

EEA Asset Information Managers' Forum

Personal background Jeroen Hoexum

- 2021-now: Aurora Energy, Information & Intelligence Manager
- 2019-2021: ASB Bank, Senior Manager Digital & Data Risk
- 2010-2016: Haarlem City Council, Chief Data Officer
- 1999-2010 & 2016-2019: PwC, Director Data Assurance

What is Data Governance?



[Watch the video](#)

Why My Wife Loves Data Governance

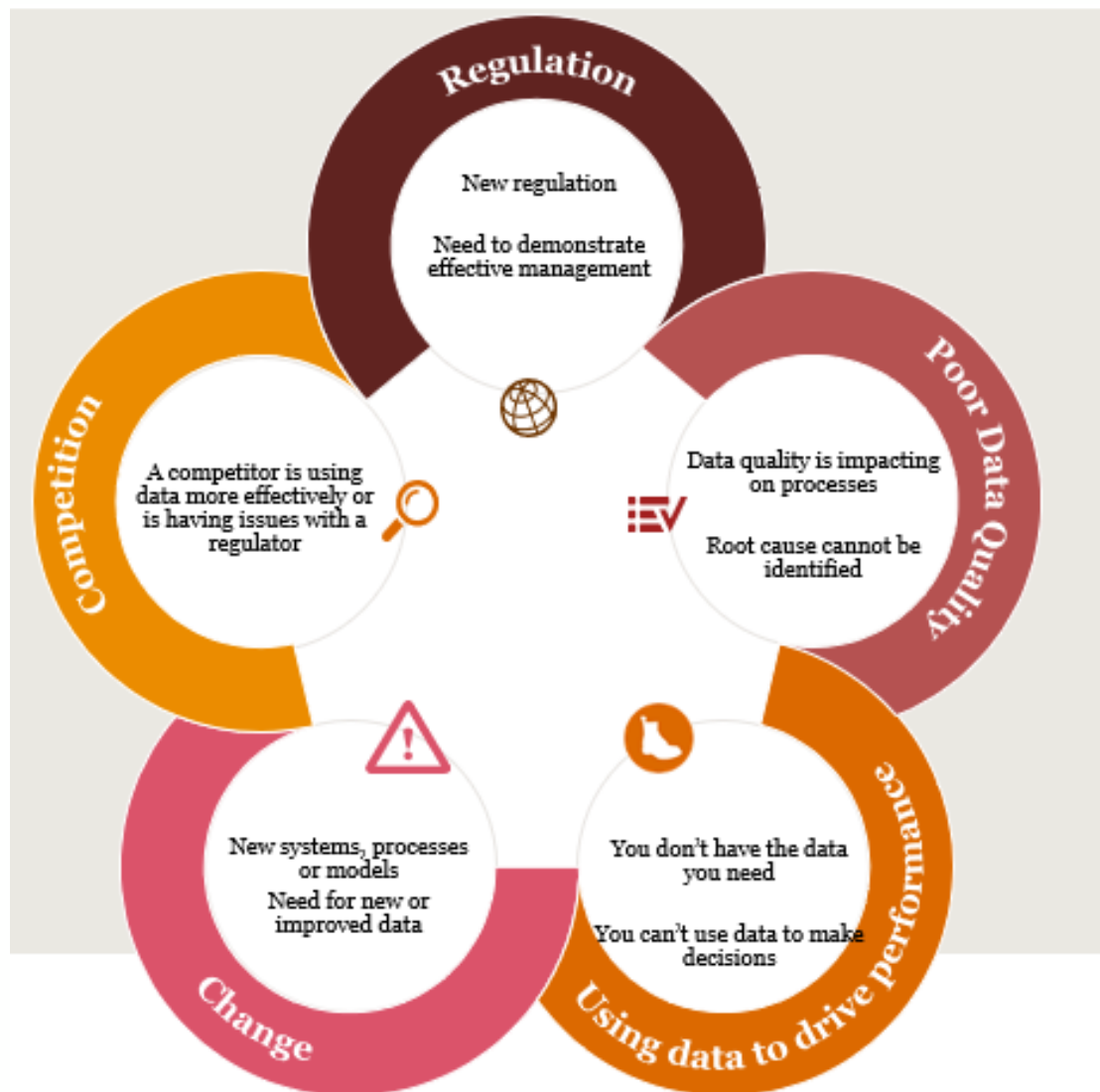
Paul Boal – Practice Lead

What is data governance supposed to be about?

Data governance encompasses the people, processes, and information technology required to create a consistent and proper handling of an organization's data across the business enterprise.

Commitment	Commitment
Data governance is not a project or a program or an isolated capability.	Marriage does not end with the vows in a wedding ceremony, a reception, and a honeymoon.
Data governance is part of how an organization chooses to conduct operations and decision making on a day to day basis.	Marriage requires the ongoing daily choice of a couple to remain committed to one another.

The challenges are clear, but who is responsible?



Data Governance Maturity Models

Level	Level name		Level description	
	DAMA-DMBOK2	DCAM® 2.2	DAMA-DMBOK2	DCAM® 2.2
Level 0	No capability	Non initiated	No organized data management practices or formal enterprise processes for managing data	Ad-hoc data management (performed by heroes)
Level 1	Initial/Ad Hoc	Conceptual	<ul style="list-style-type: none"> • Little or no governance • Limited tool set • Roles defined within silos • Controls applied inconsistently • Data quality issues not addresses 	Initial planning activities (white board sessions)
Level 2	Repeatable	Developmental	<ul style="list-style-type: none"> • Emerging governance • Introduction of a consistent tool set • Some roles and processes defined • Growing awareness of impact of data quality issues 	Engagement underway (stakeholders being recruited and initial discussions about roles, responsibilities, standards and processes)
Level 3	Defined	Defined	<ul style="list-style-type: none"> • Data viewed as an organizational enabler • Scalable processes and tools • Reduction in manual processes • Process outcomes are more predictable 	Data management capabilities established and verified by stakeholders (roles and responsibilities structured, policy and standards implemented, glossaries and identifiers established, sustainable funding)
Level 4	Managed	Achieved	<ul style="list-style-type: none"> • Centralized planning and governance • Management of risks related to data • Data Management performance metrics • Measurable improvements in data quality 	Data management capabilities adopted and compliance enforced (sanctioned by executive management, activity coordinated, adherence audited, strategic funding)
Level 5	Optimization	Enhanced	<ul style="list-style-type: none"> • Highly predictable processes • Reduced risk • Well understood metrics to manage data quality and process quality 	Data management capabilities fully integrated into operations (continuous improvement)

PwC's Enterprise Data Governance Framework

Basis for scope conversations, which should take into account: current culture, vision that aligns with mission and objectives, strategic questions that should be answered with data and identification of Critical Data Elements

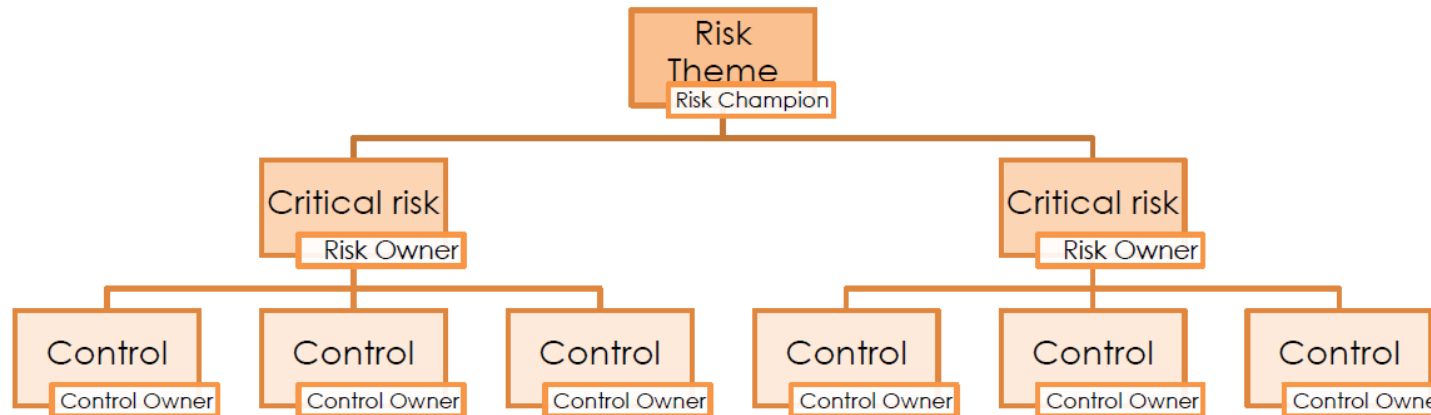
Picture on the sheet not shared, please reach out if you would like more detailed information

The accountability question

Through good Data Governance we can ensure access (availability, usability) and trust (integrity and security) of the data in enterprise systems.

Principles: Risk might be centralized ('Our data is not accurate or complete resulting in poor quality reporting and decision making'), while Control Owners for individual data sets will be across the business.

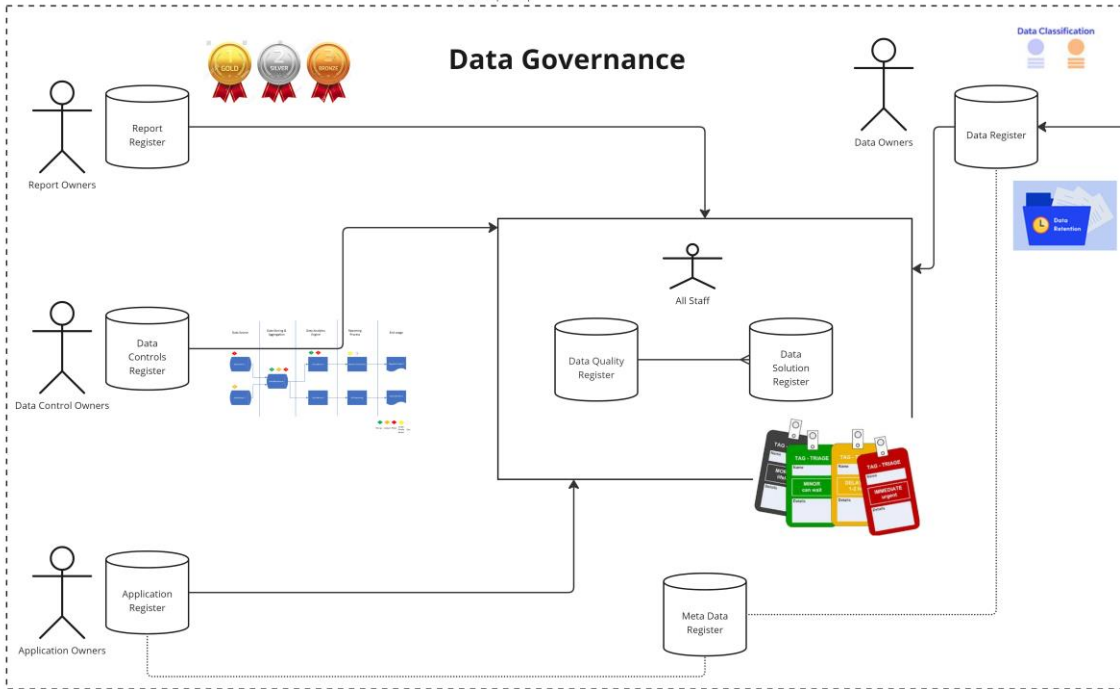
Prioritisation: Risk based



Data Quality & Governance Roadmap



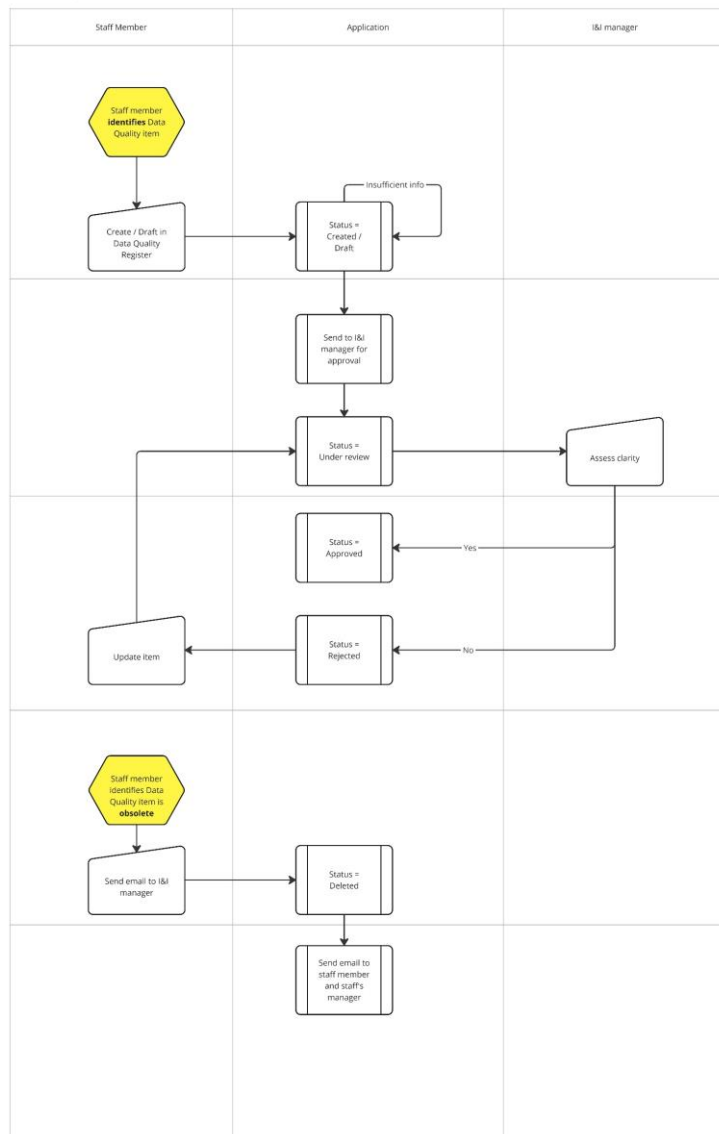
Scope Data Governance Tool



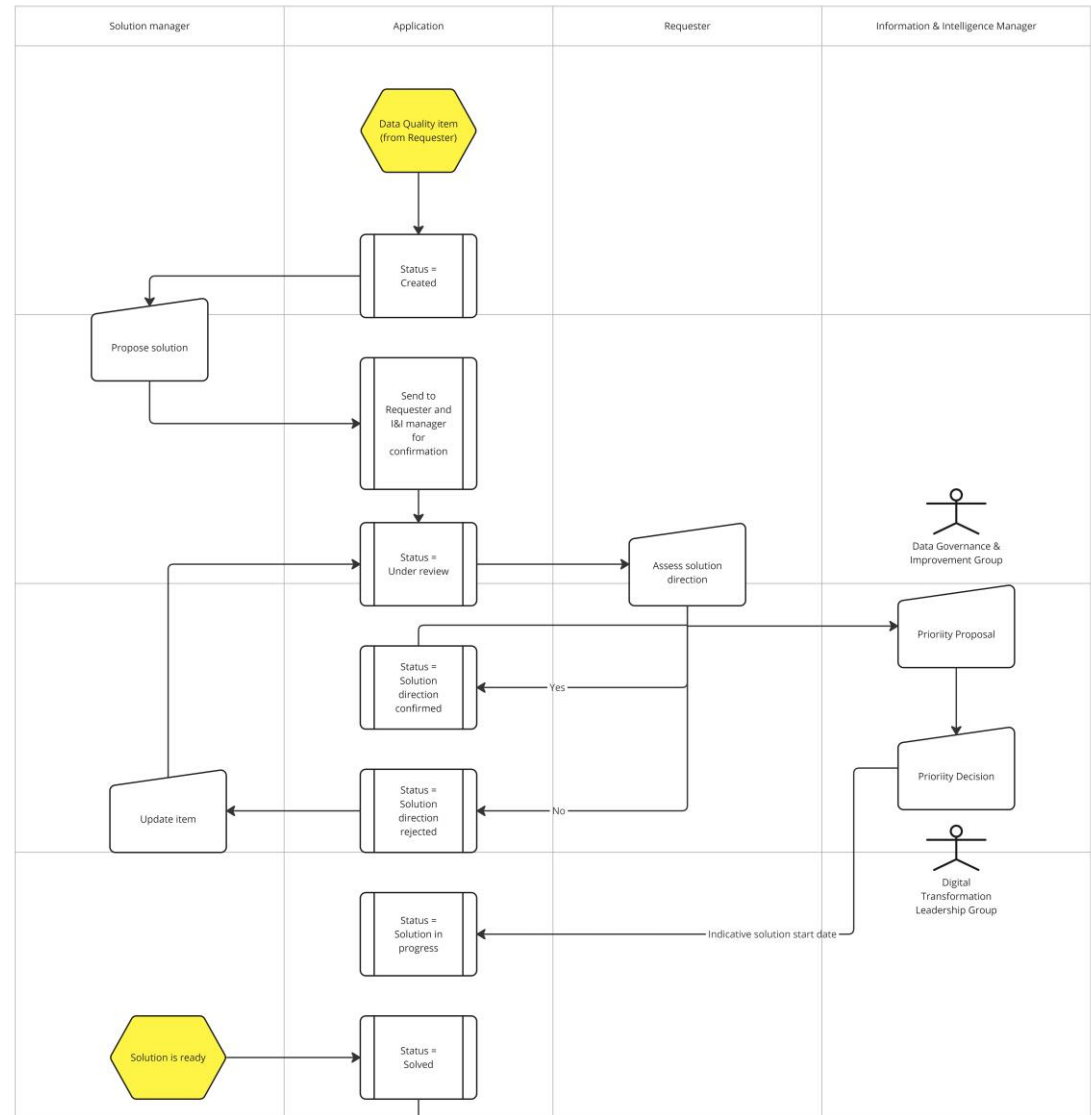
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Illustration key processes

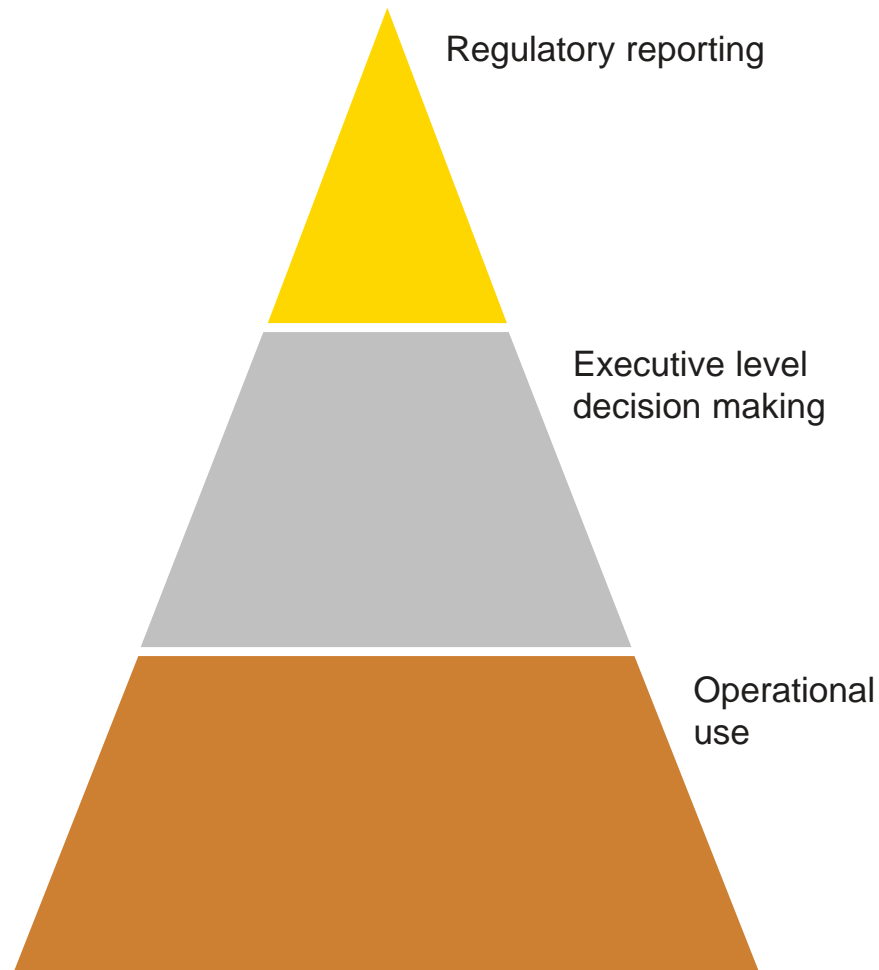
Data Quality Process



Data Solution Process



Gold/silver/bronze apply for the end-to-end data processes leading into a report (visible on the report)



The following areas are satisfactory:

- Controls (which indirectly includes Data Quality)
- Data Access
- Data Security

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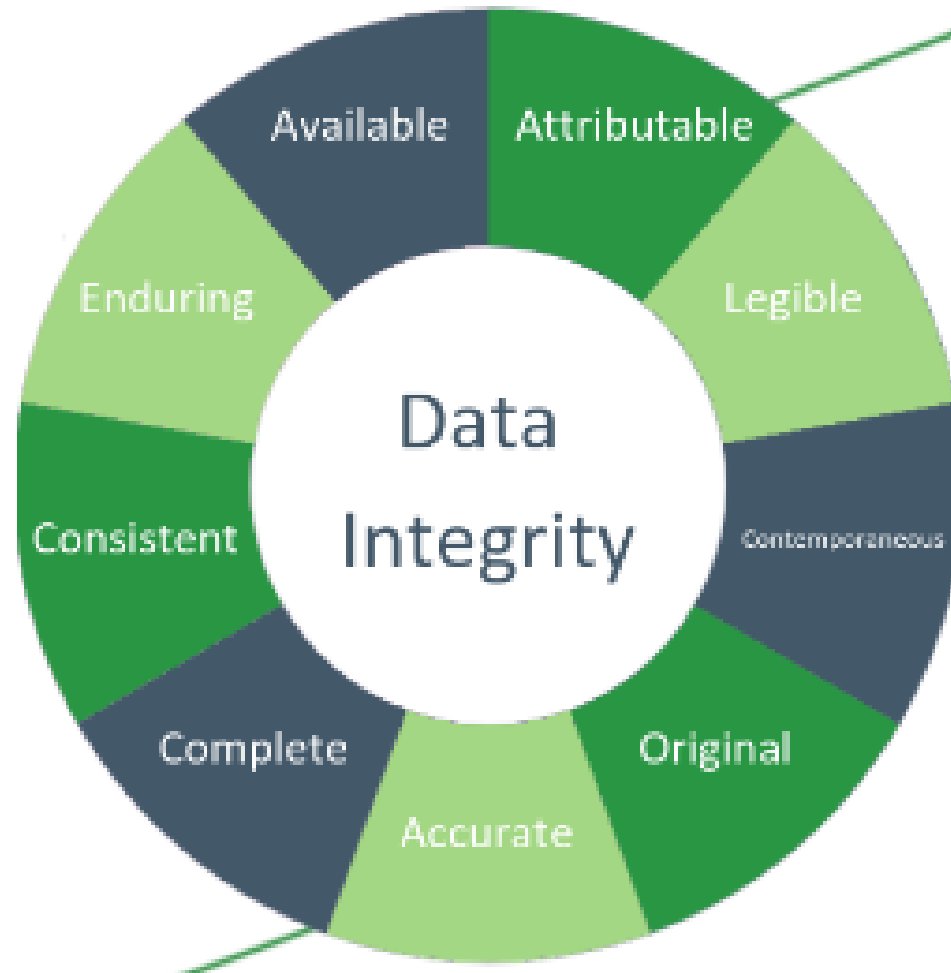
- Data Quality (which indirectly includes Data Ownership)

The following areas are satisfactory:

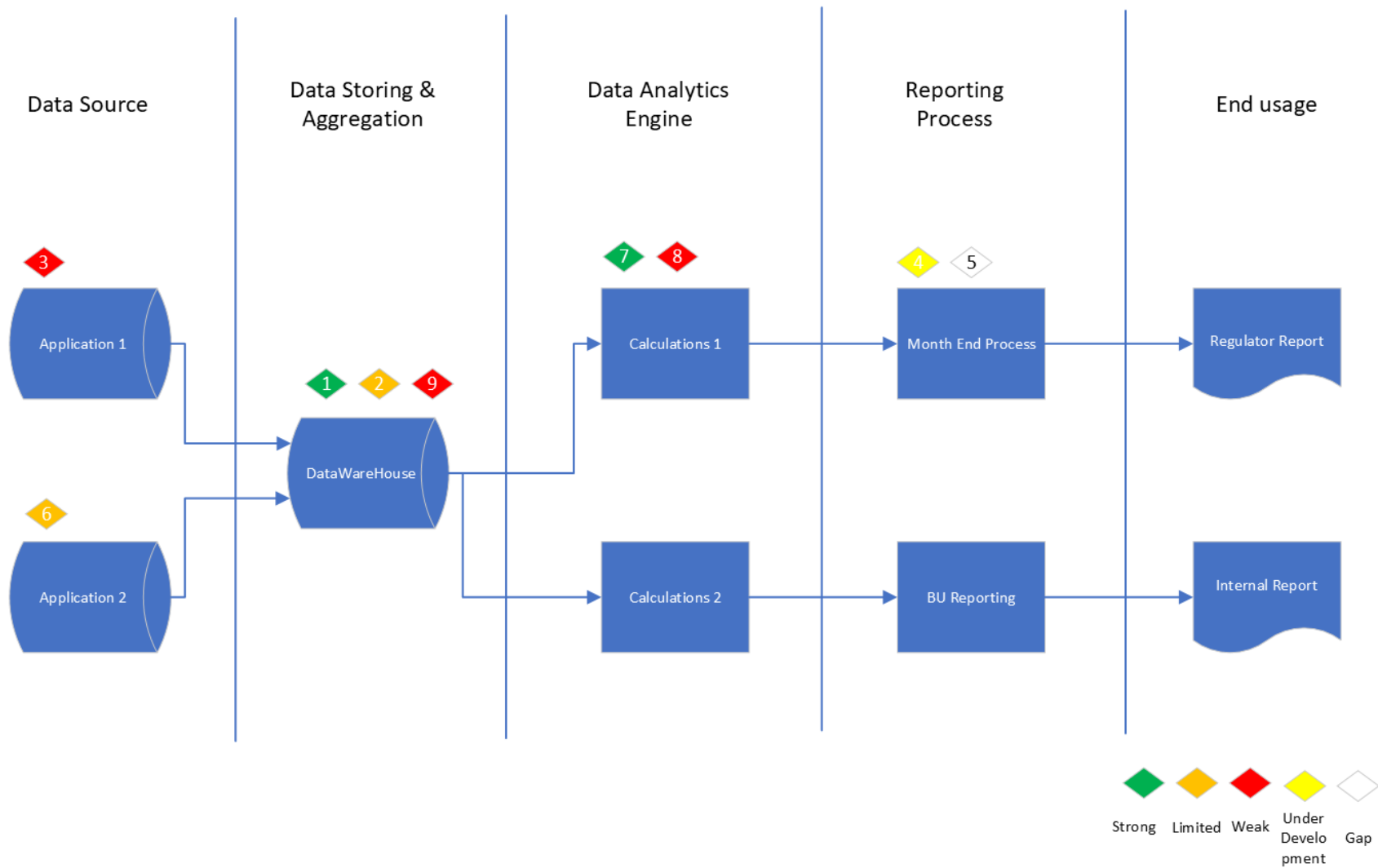
- Data Ownership

This should not be used by senior management or the executive for commercial decision making

Data Quality



Data Lineage including Controls

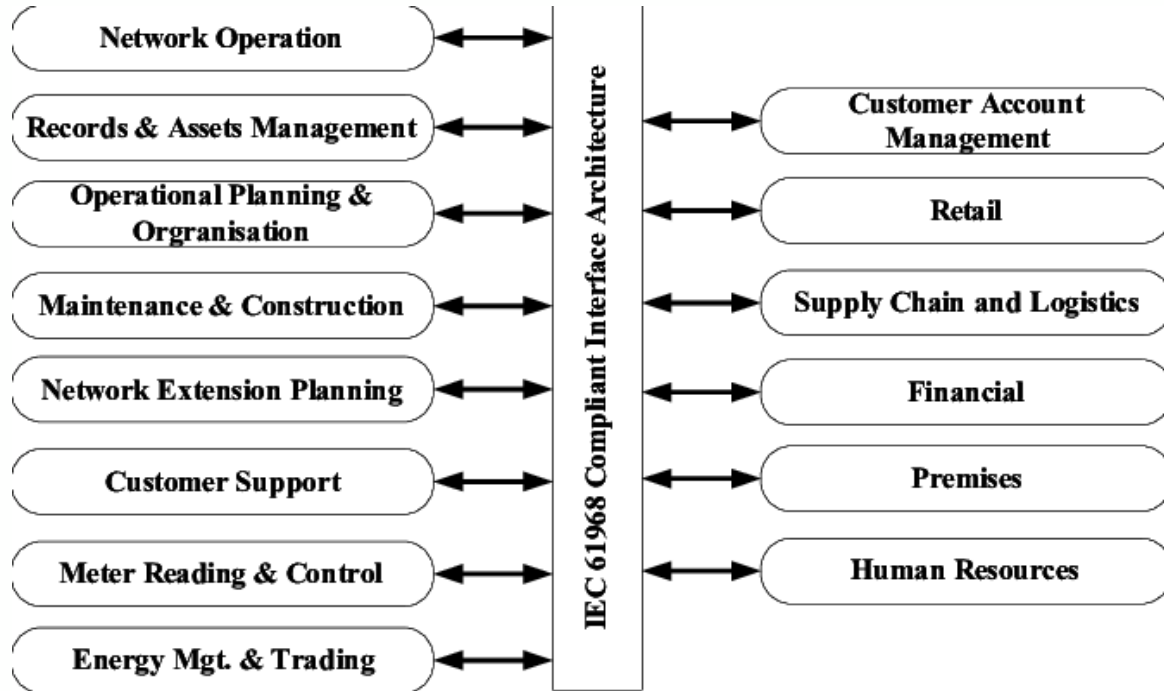


How could these Data Controls look like?

Sheet not shared, please reach out if you would like more detailed information

Common Data Model (IEC 61968) – or do we make it ISO 55013?

Supports standardisation & harmonisation



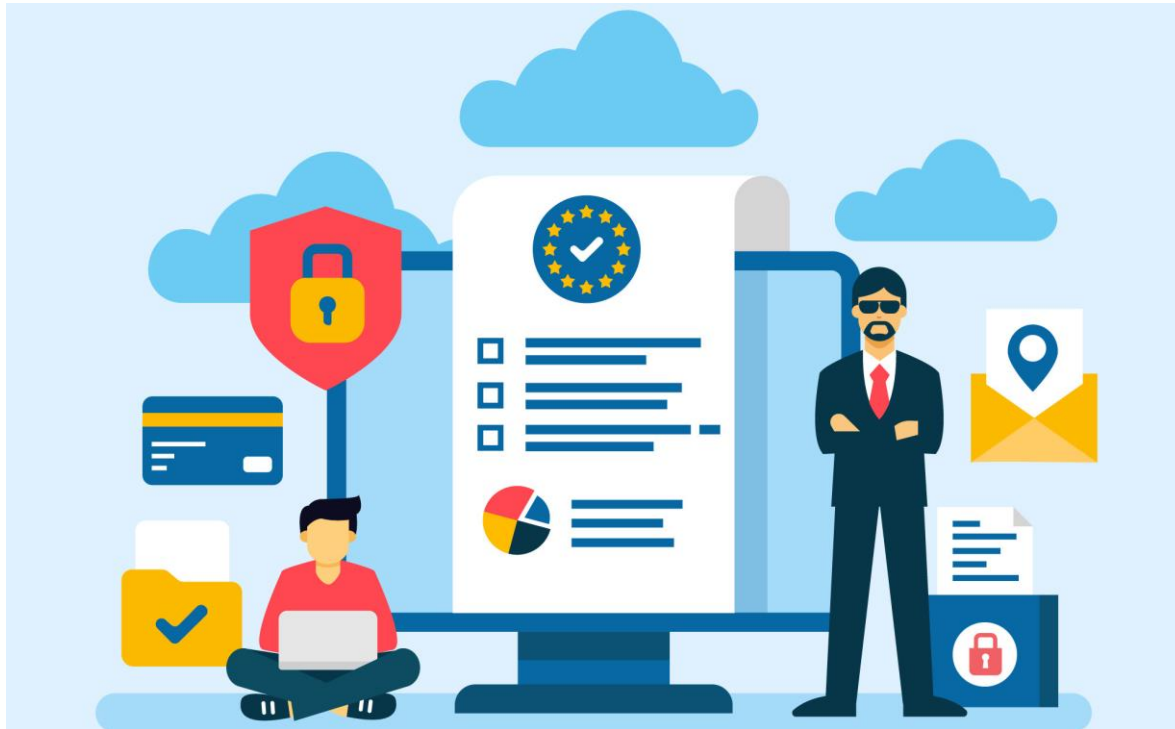
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Data Ownership

NON-INVASIVE DATA GOVERNANCE

*The Path of Least Resistance
and Greatest Success*

ROBERT S. SEINER



Define / appoint further ownership /
stewardship across the business:

- Data Owner (in alignment with [Common Data Model](#))

Business Only

- Report Owner (=View Owner =
Customised Object Owner)
Split Business & Technical
- System Owner
Split Business & Technical

Data Privacy & Retention

The screenshot shows the Microsoft Purview interface for an auto-labeling policy named "HR Variation Letter". The main content area displays a "Simulation overview" with a sub-tab for "Items to review". A notification states: "If your role group permissions are restricted to a specific set of users, you'll only be able to view simulation results for those users. [Learn more about role group permissions.](#)" Below this, there are controls to "Turn on policy", "Restart simulation", "Edit policy", and "Delete policy".

The "Items to review" section shows a table of simulation results. A filter indicates "Date match was detected: 10/7/2023-10/8/2023". The table lists one item:

File name	Rule
<input checked="" type="checkbox"/> Brent Vink - Variation of Employment Agreement - February 2020.docx	

Below the table, the "Metadata" for the selected item is shown:

```
SharePointMetadata: [{"FileOwner": "47696E61-20436176616E616768-Gina.Cavanagh", "FilePath Url": "https://auroraenergynz.sharepoint.com/sites/TerminatedUsers/LewisTomar/Shared%20Doc"}]
```

On the right side of the interface, the "Trainable Classifier" configuration is visible, including "Admin units (preview)", "Apply to content in these locations", "Exclude content from these locations", and "Rules for auto-applying this label".

Key benefits Data Governance tool

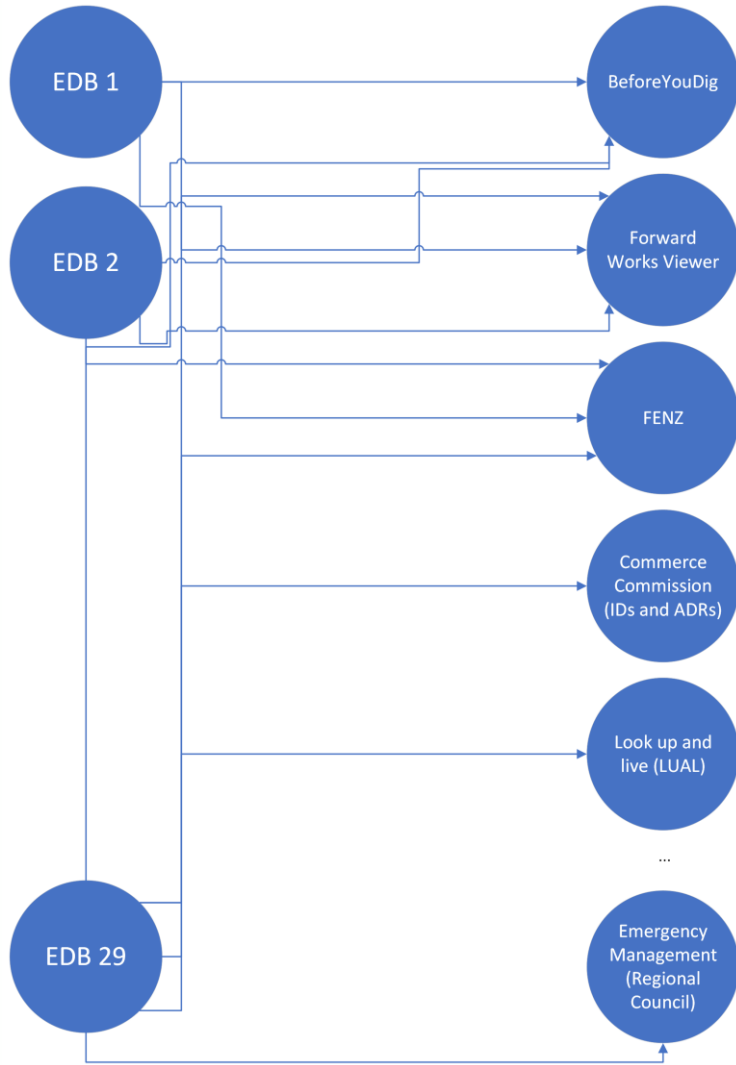
1. Data Quality issues can be made transparent and can be solved following a triage system
2. DTLG gets the ability to prioritise data quality issues (based on Data Governance Groups advice)
3. Reports (with owners & associated controls) get current Report Rating (Gold, Silver, Bronze) and actionable plans towards desired Report Rating
4. Applications get owners & associated controls
5. Data Owner gets insight in where their data elements reside (applications, reports) in alignment with industry standards
6. Privacy (personal data) and retention can be better managed
7. Change Advisory Board can start better assess by application of Impact Analysis
8. The organisation becomes more agile (by alignment to industry data models)
9. Clear action on 1 (low risk) finding from the audit report

We recommend that management:

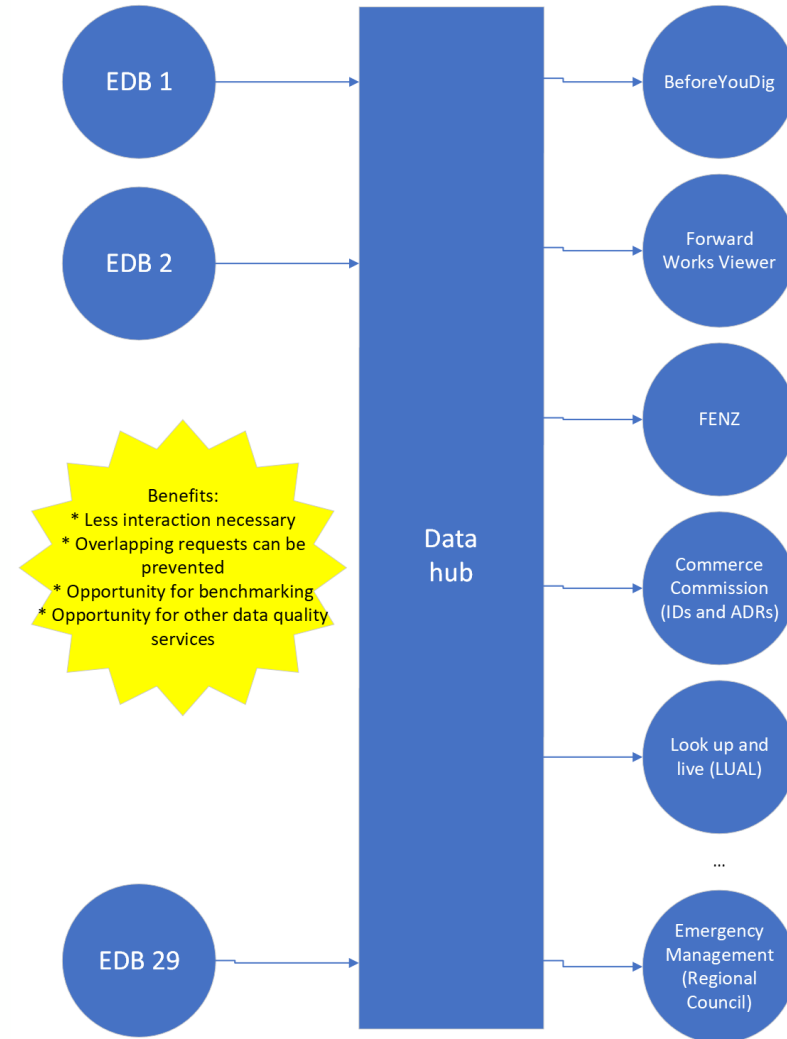
- Establishes a governance process around asset data validation. The purpose of this is to validate the accuracy and integrity of the asset data through data profiling and quality checks.

My (data governance) view on industry-wide data sharing: how to accomplish > 86% data efficiency reduction?

Current process



My view



Follow up conversation Data Hub

1. At the end of the forum, I have committed (without being compensated for my hours) to creating a high-level business case for the Data Hub initiative that will include a funding model.
2. EEA committed to bringing this business case to the EEA Board for their advice/decision.
3. My plan is to draft up this business case in July 2024 and ask for feedback/review from 'coalition of the willing'.
4. During the forum, I already got some names who would like to be part of the 'coalition of the willing'.
5. If you want to be part of the 'coalition of the willing' please let me know before the end of June 2024.

Questions/discussion?

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