

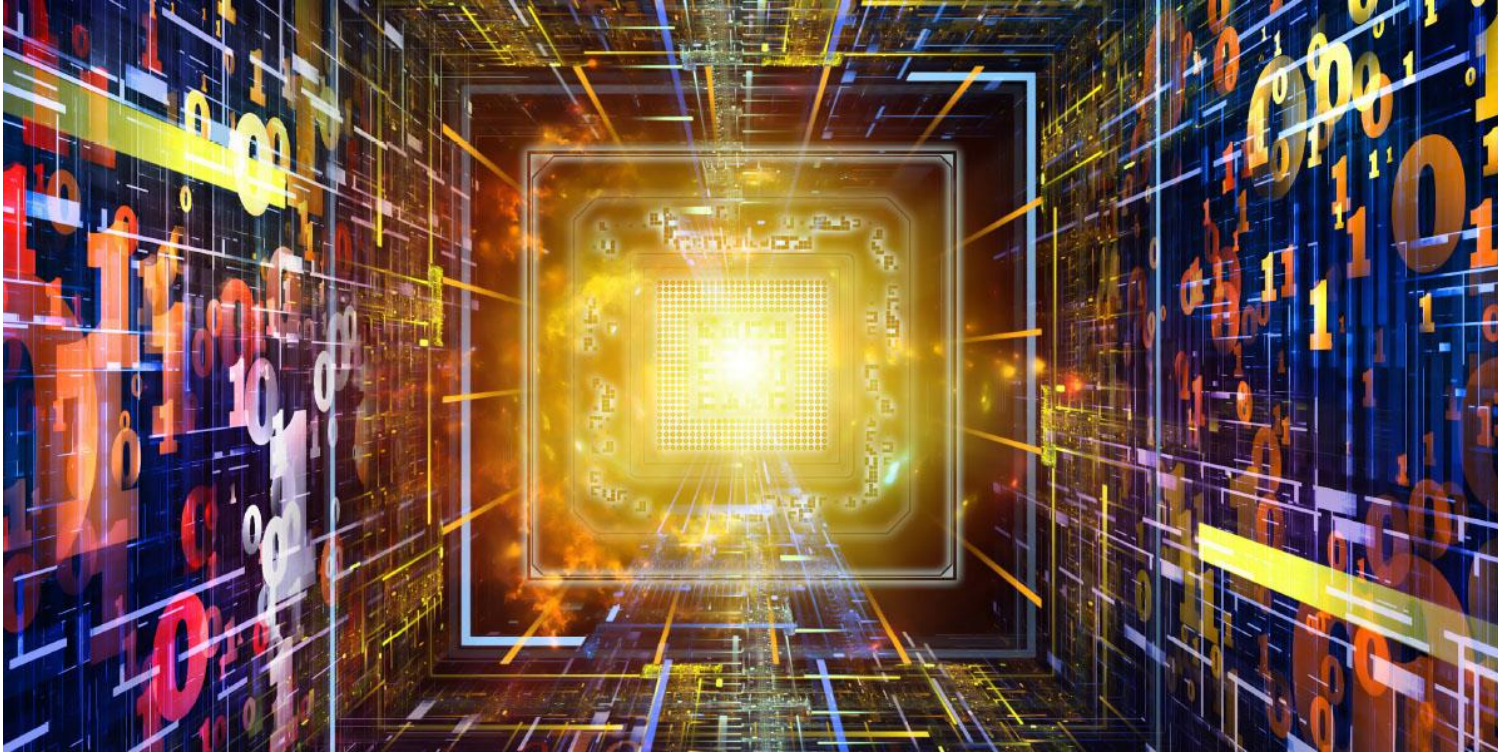


Ethical Practices: Part Three

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December 22, 2021

Data Governance



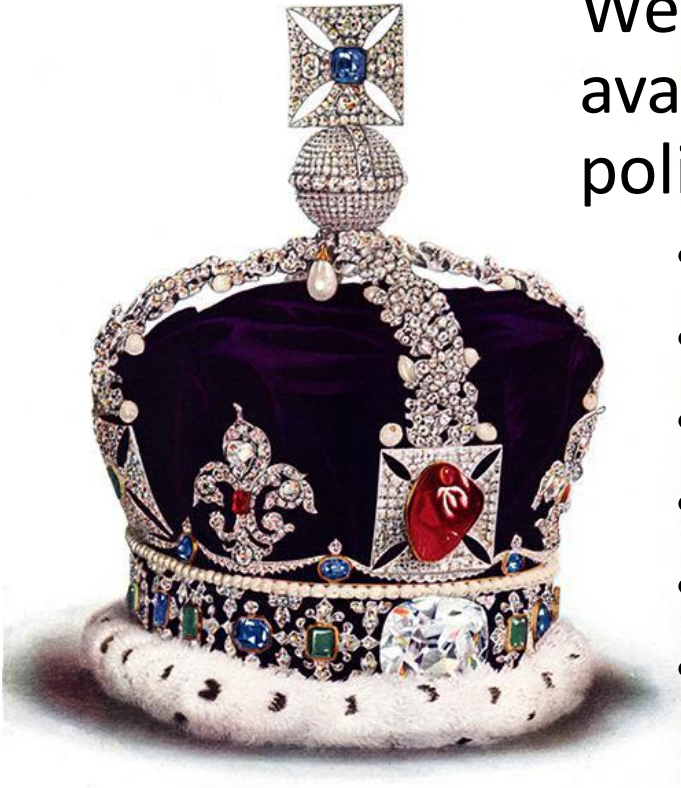
E.g. Carrie Klein and Michael Brown use a data governance framework for 'Ethics at the Core'

Title Image:

<https://towardsdatascience.com/top-5-data-governance-framework-tools-to-look-out-for-8d753ab314de>

<https://www.businessofficermagazine.org/features/ethics-at-the-core/>

Types of Governance



Weill and Ross [2004] : six governance classifications available to IT organizations based on the ideal of political archetypes:

- Business Monarchy – IT decisions are made by CxOs
- IT Monarchy – Corporate IT professionals make IT decisions
- Feudal – Decision by autonomous business units
- Federal – Hybrid decision making
- IT Duopoly – IT executives and one business group
- Anarchy – Each small group makes decisions

<https://aisel.aisnet.org/cgi/viewcontent.cgi?article=3160&context=cais>

Ref: Weill, P. and J.W. Ross (2004) IT governance: How Top Performers Manage IT Decision Rights for Superior Results, Watertown, MA: Harvard Business School Press.

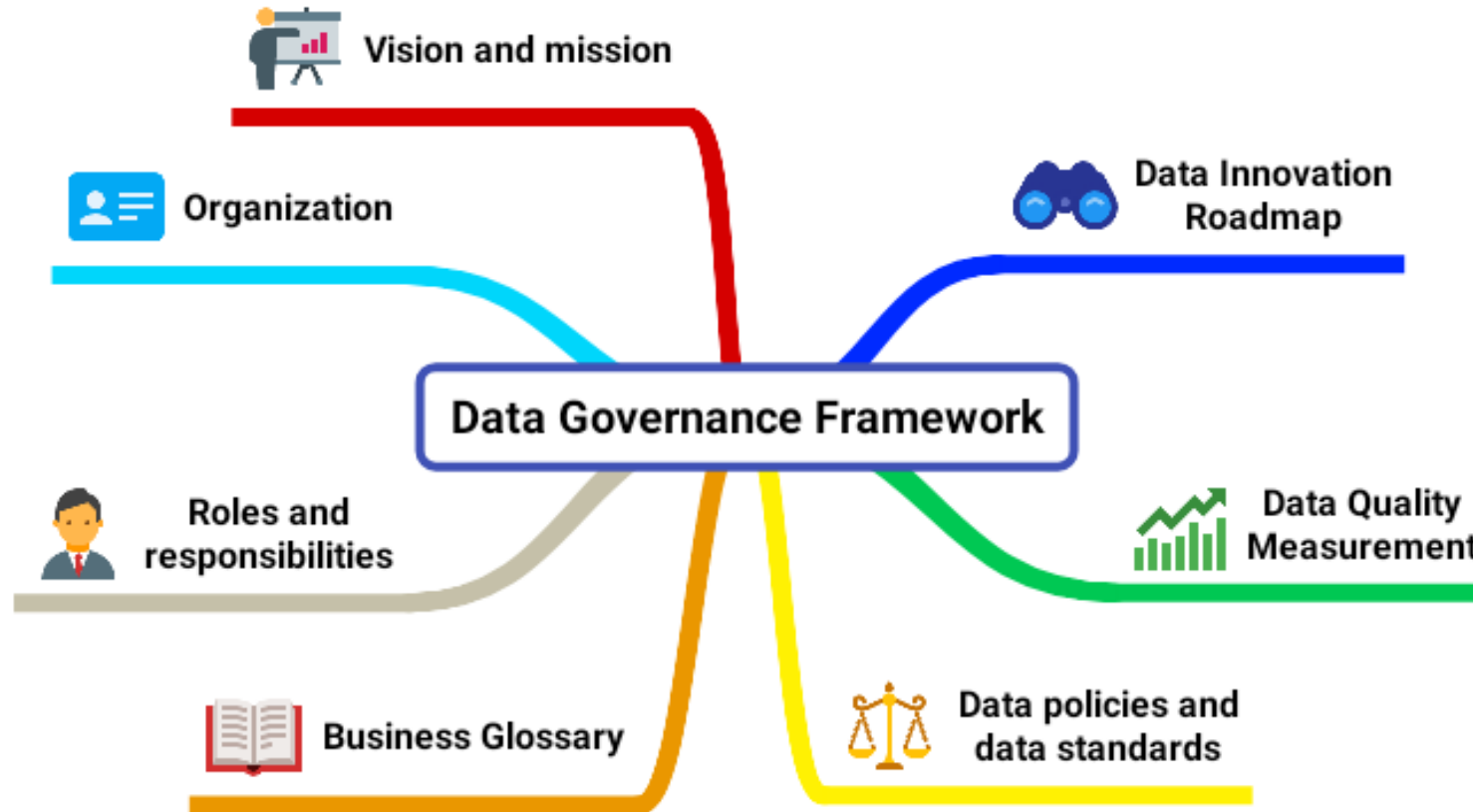
Governance Frameworks

- structure and delineate power and roles
- set rules, procedures, and other informational guidelines
- define, guide, and provide for enforcement of these processes
- shaped by the goals, strategic mandates, financial incentives, and established power structures and processes of the organization.



This is the difference

Data Governance Framework



<https://liliendahl.com/2021/11/21/whats-in-a-data-governance-framework/>

Aspects of Data Governance

De-Anonymisation

Tranberg: We must prohibit the de-anonymisation of anonymised data, as a German Data Ethics Commission suggested last year.



Pernille Tranberg. (2020). Why We Need to Make (Attempts of) De-Anonymisation Illegal. Data Ethics. February 6, 2020. <https://dataethics.eu/why-we-need-to-make-de-anonymisation-illegal/>

Tranberg, 2019: <https://dataethics.eu/german-data-ethics-commission-safeguarding-digital-sovereignty-of-europe-is-ethical-responsibility/>

Aspects of Data Governance

Policies, Roles and Teams

- data management and classification policy
- data managers team consisting of representatives from departments
- data request process: making it it responsive, timely, and consistent
- culture: helping people value the ethical use of data
- data security



Aspects of Data Governance

Informed consent



<https://foundation.mozilla.org/en/blog/when-one-affects-many-case-collective-consent/>

Anouk Ruhaak (2020): the principle of 'informed consent' is dead

- If one person gives consent, many people are affected
- It's unlikely anyone is truly 'informed' when they give consent
- Consent is meaningless without the ability to opt out

Ruhaak argues for an alternative, collective consent, in which our rights are managed by "a fiduciary, someone with a legal responsibility to look out for your interest, rather than their own."

Aspects of Data Governance

Single source of truth

This is at once a technical term for database management and also critical advice for working in a distributed environment.

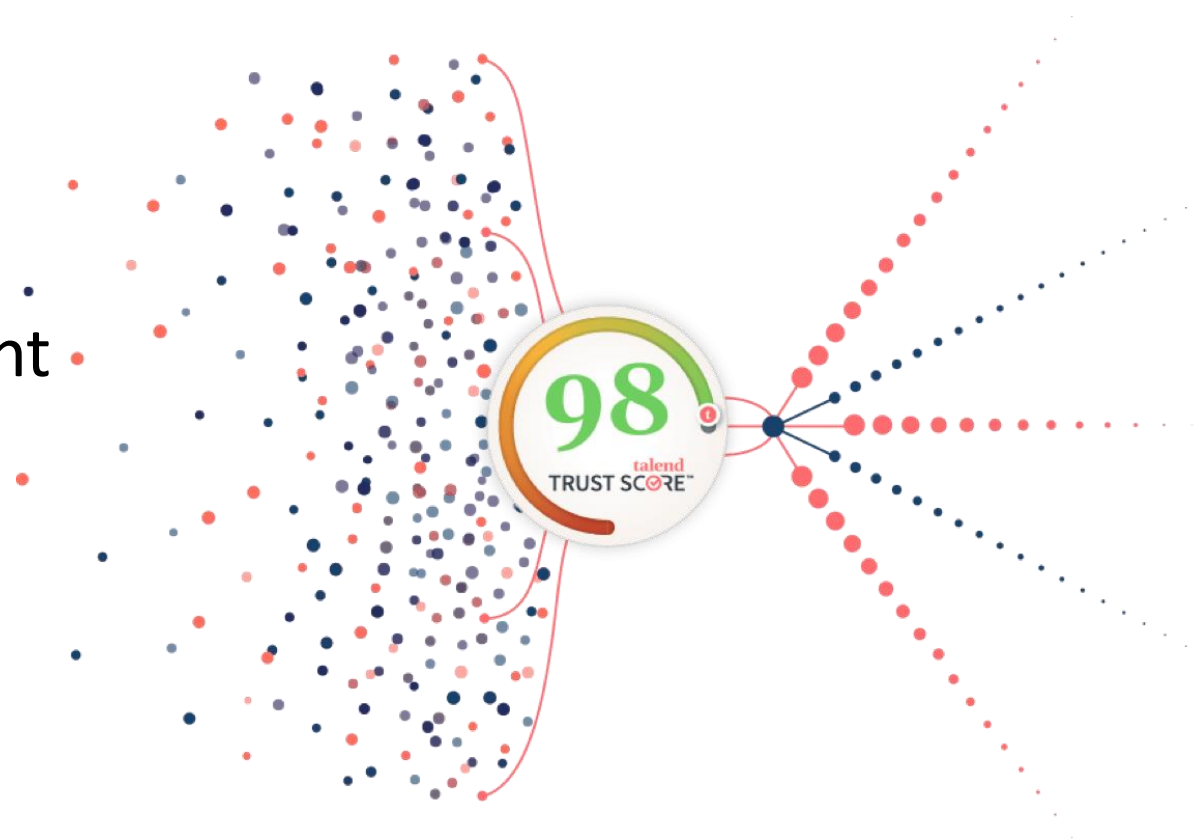
- No duplicate data entries or version control issues
- Timely data values at the right moment
- Reduced time spent validating records and data types
- Improved data warehouse and intelligence
- Improved communication and productivity

<https://www.vistaprojects.com/blog/what-is-single-source-of-truth-ssot/>
https://en.wikipedia.org/wiki/Single_source_of_truth



Data Governance Tools

- Business glossary
- Data discovery
- Stewardship management
- Reference data
- Policy management
- Data quality tools
- Data mapping



Collibra <https://www.collibra.com/us/en/platform/data-governance>

Talend <https://www.talend.com/products/data-integrity-governance/>

IO-TAHOE <https://www.iotahoe.com/platform/#section9/>

IBM (Watson, Cognos) <https://www.ibm.com/in-en/analytics/data-governance>

Informatica <https://www.informatica.com/ca/>

Data Governance as a Diversion

Julia Powles and Helen Nissenbaum: ‘Solving bias’ in AI data is a diversion; “recognizing and acknowledging bias can be seen as a *strategic concession* — one that subdues the scale of the challenge.”



<https://onezero.medium.com/the-seductive-diversion-of-solving-bias-in-artificial-intelligence-890df5e5ef53>