

### Project Purpose

- Ports of Auckland (POAL) are wanting to adapt to the new IT industry era of Data Governance
- request for an academically backed research report, detailing a high-level design framework for Data governance
- Compare the advantages and disadvantages of including Data Governance for stakeholders to see the potential risks and benefits.

### Project Objectives

- A high-level design framework for Data Governance
- Academically backed information from legitimate sources
- Critical analysis on risks and benefits for including Data Governance into their current architecture

### Practical Application : PRISMA



#### Identification

Collected over 70 academic literature from Google Scholar, AUT libraries and established IT vendors for Data Governance



#### Screening

Reading through found research and resources, excluding duplicated information, and identifying main key points, filtering down to 50 articles and sources



#### Eligibility

Checking sourced authors, sources, companies, which resulted to a final collection of 41 articles and sources to be used as references [4]



#### Included

Ensuring qualitative and quantitative research and reviews are included in our report (Meta-aggression) for quantitative ROI measurements

#### Project management and communications with our PRISMA methodology:

Communications were sustained between project members, Mentor, and Ratneesh through Microsoft Teams, email. Our coercive approach with our project management skills where everyone in the project team are inexperienced with data governance to move forward towards our research with effort to collect and cover as many legitimate and recent sources and published articles. PRISMA has allowed us as authors to apply critical thinking in the information we screen to determine its usefulness towards the report.

### Final Project Artifact

#### Final framework design created into four parts:

**Definition:** Defined by Data management Body of Knowledge (DMBOK) [2] and Data Governance Institute (DGI) [1], it's a framework used for a series of "processing, administering, and monitoring " the company data's compliance with existing policies.

**Design:** Framework principles of the organisation's current state for regulatory/operational compliance, risk control, value creation must be identified to assess their current processes [3]. The Organisation can also use ITIL and COBIT Checklist to assess their level of maturity. The Data Governance Trifecta framework of people, processes, and technology can then be set up towards their needs and shortcomings, including identifying Critical Data elements.

**Implementation:** Garnering stakeholder support, interest, and funding to commence setup as a project to set up a data governance office environment

**Control:** Centralising standards and procedures to maintain framework, assessing balance between security and application, excess resource waste management, and the risk and benefits of installing data governance.

### Difficulties

#### Technical difficulties:

- File deletion: our files did get accidentally deleted, we had backup and restored all lost files.
- Academic writing: not everyone was on the same skill level for report writing. We had to do a lot of upskilling work.
- COVID-19: it hindered us with our group morale and collaboration.

#### Non-Technical Difficulties:

- Soft skills: trying to balance and accommodate everyone's different interpersonal skill levels
- Language barrier: most of project teammates don't have English as their first language
- Group morale: was difficult to sustain due to lockdown, losing peer connection.

### Lesson Learnt

- **Time Management:** With our project team members having vastly different schedules and assessments/majors, it was a challenge to find a time together to discuss and hold project work
- **Customer Relationship Management:** to maintain professionalism during our weekly deliverables
- **Communication Management:** Due different language barrier levels, it did take a lot of effort for everyone to understand and converse on the same idea/topic

#### What to improve in the future:

- **Better research approach:** To organise our collaboration better and even out commitment towards work
- **sustain high group morale:** For the purpose of collaboration, this will be the most important task to uphold for everyone to feel purposeful.

### References

[1] DAMA international (2021), *DMBOK2*, DAMA international, <https://www.dama.org/cpages/body-of-knowledge>

[2] Data Governance Institute (2021), *DGI Data Governance Framework*, DGI, <https://datagovernance.com/the-dgi-data-governance-framework/>

[3] Informatica Support (2016), *Establishing Data Governanec Framework*, <https://www.youtube.com/watch?v=MT0oCrEQM0s>

[4] Prisma (2021), *Who should use PRISMA?* PRISMA, [http://www.prismastatement.org/fbclid=IwAR1nGrKTX2DPxoVivoPoNWs6r\\_9\\_7DVbTb3z7scSWPx1rbGWi8waW3K46k](http://www.prismastatement.org/fbclid=IwAR1nGrKTX2DPxoVivoPoNWs6r_9_7DVbTb3z7scSWPx1rbGWi8waW3K46k)

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