

CASE STUDY

ASSESSING DATA MATURITY - ARE WE THERE YET?

ARPANSA

(2024)



- ✓ Service offering tailored to ARPANSA's business needs
- ✓ Based on industry best practice knowledge base (DAMA DMBOK 2)
- ✓ Determine current capability
- ✓ Baseline for measuring future improvement



The Project

The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)[1] are the Australian Government's primary authority on radiation protection and nuclear safety. ARPANSA provide a broad range of services to government, industry, and the public, covering:

- Education and literacy about radiation and nuclear safety
- Monitoring of radiation
- Hire, test, and calibration of radiation metres and other devices
- Import and export permit applications
- Regulation and licensing of mines, industrial plants, health, transport, and research organisations
- Research, surveys and publications
- Radiation emergency preparedness and response

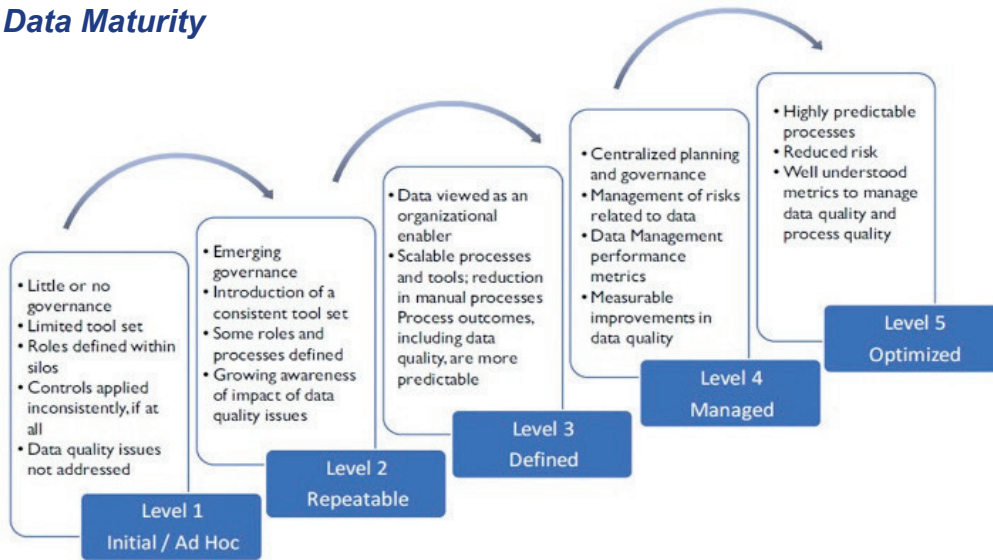
Effective data management is critical to the successful operation of ARPANSA and a core enabler for ARPANSA to attain its strategic objectives. The Digital Development Branch is leading the establishment of a data management capability framework. This framework describes the agency's data management needs, and what capabilities (People, Policy, Processes, and Technology) must be present to satisfy these needs, now and into the future.

The Challenge

Identifying a future state of data management capability and developing a plan to get there, requires an understanding of the current state of ARPANSA's capability. To better understand ARPANSA's current capability, a data maturity assessment was required. A Data Maturity Assessment (DMA) characterises the proficiency of data management practices within an organisation as belonging to a "level" of maturity, typically on a scale from 1..5 where 5 is the highest maturity. An organisation operating at higher levels of maturity, will have more effective data management practices that deliver better business outcomes.

[1] ARPANSA <https://www.arpansa.gov.au/>

Levels of Data Maturity



The Solution

At the request of their Digital Development Branch, Anchoram Consulting conducted a whole of ARPANSA Data Maturity Assessment (DMA). Anchoram have developed a DMA methodology based on DAMA DMBOK2[2]. This generic methodology was tailored to ARPANSA’s specific business needs, and the DMA deployed over the period June to September 2024. Outputs of the DMA included:

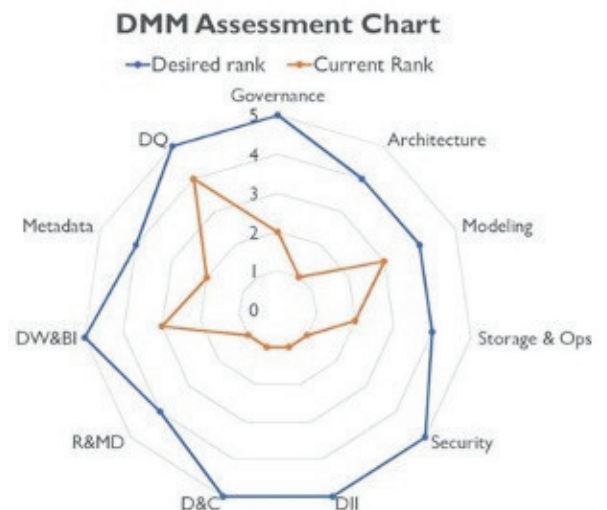
- Analysis of interview data and generation of maturity scores in 15 categories of data management capability;
- Visualisation of the DMA results across the cohorts, and aggregation of results to provide an average score for ARPANSA as a whole;
- Detailed Report with observations and key findings.

The Business Outcome

Anchoram’s Report provided ARPANSA with a detailed understanding of its current state of data management maturity. Additionally, four main recommendations for improvement were highlighted.

These findings have informed identification of a target future-state of data management maturity, and the development of a roadmap to attain this state.

Figure is indicative, not actual ARPANSA result.



[2] <https://www.dama.org/cpages/body-of-knowledge>