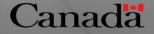


National Défense Defence nationale



# Implementing DND/CAF Data Strategy

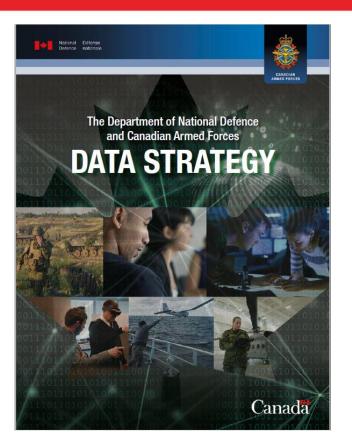
26 September 2021 Mr. John Walsh, DG DASI & CDO





- 1. Data Strategy
- 2. Where we are at with our Data Strategy
- 3. Building the Foundation
- 4. Data Capability
- 5. Sample Use Cases
- 6. Policy Suite

## **Data Strategy**



- CDS/DM Joint Directive on Defence Data Management;
- The DND/CAF Data Strategy was released in September 2019; and
- Includes a commitment to develop an implementation plan, and report on progress.

#### **DND/CAF Data Strategy – Lines of Effort**



- The Implementation Action Plan will include all <u>25 Activities</u> listed in the Data Strategy Roadmap.
- ADM(DIA) is the sponsor for 15 activities, and accountable for the overall implementation plan, coordinate with L1s, and monitor and report on progress.
- ADM(IM) is the sponsor for 5 activities, and ADM-HR-Civ & CMP each sponsor 3.
- All L1s are sponsors for supporting implementation through standing up ASCs and for transforming DND/CAF data culture.

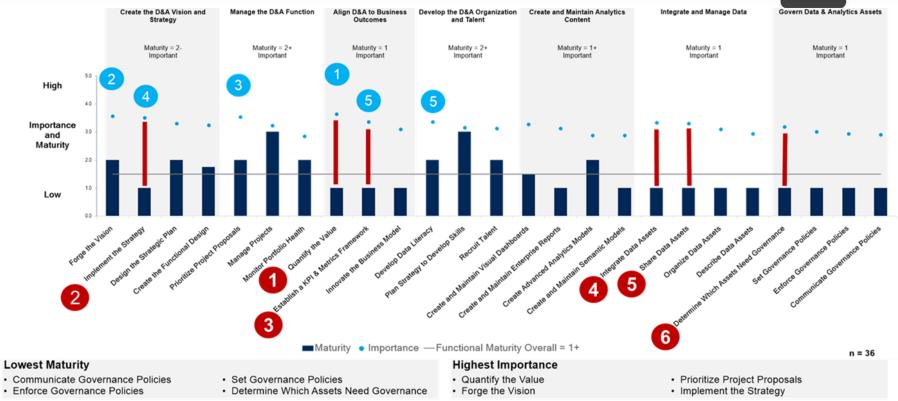
Activity / Initiative	Sponsor	LOE
Data Manageme	nt	
Implement data governance	ADM (DIA)	L
Implement data quality approach	ADM (DIA)	L
Evaluate data impacts	ADM (IM)	L
Model DND/CAF data	ADM (DIA)	М
Implement a master data approach	ADM (DIA)	м
Implement a metadata approach	ADM (DIA)	н
Appropriately secure data	ADM (IM)	н
Provide integrated data	ADM (IM)	м
Data Tools and Enviro	nment	
Implement data policies	ADM (DIA)	м
Develop data management tools roadmap	ADM (DIA)	L
Provide data environments	ADM (IM)	м
Resolve policy conflicts	ADM (DIA)	н
Implement data management tools	ADM (IM)	м
Data Literacy and s	kills	
Define data literacy	ADM (DIA)	L
Evaluate data literacy	ADM (DIA)	L
Develop data literacy plan	ADM (DIA)	L
Develop data literacy training	ADM (DIA)	L
Develop data literacy staffing plan	ADM (HR-Civ)/CMP	м
Develop HR strategy	ADM (HR-Civ)/CMP	м
Data Culture		
Develop change management approach	ADM (DIA)	L
Perform stakeholder analyses	All L1s	М
Prepare communications	ADM (DIA)	L
Create accountability for data	ADM (HR-Civ)/CMP	М
Reinforce data culture	All L1s	н
Experiment with data	ADM (DIA)	м



# **Analytics Vision & Guiding Principles**



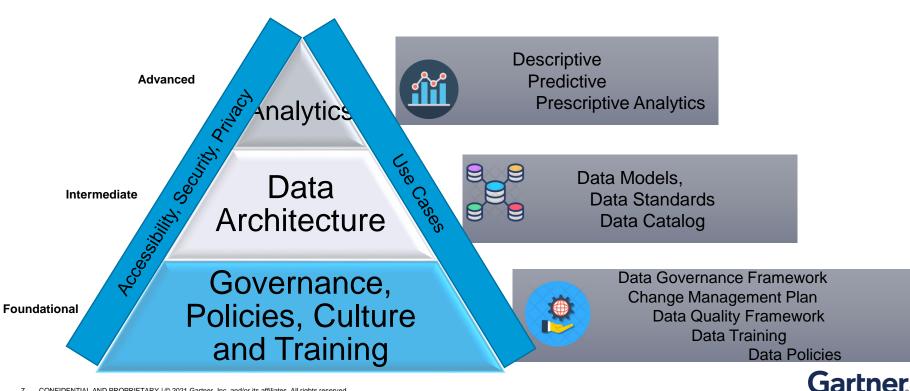
# **Data Maturity**



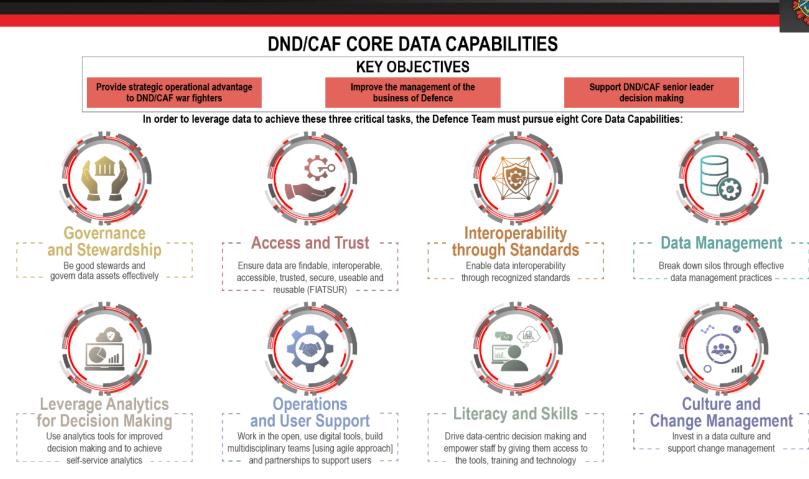
Importance: Measured on a scale ranging from 1 (Not Important) to 5 (Most Important), Importance measures how important each functional activity is to the overall effectiveness of your function in meeting its business objectives. Please refer to appendix section for scores.

# **Road Map to Implementation**

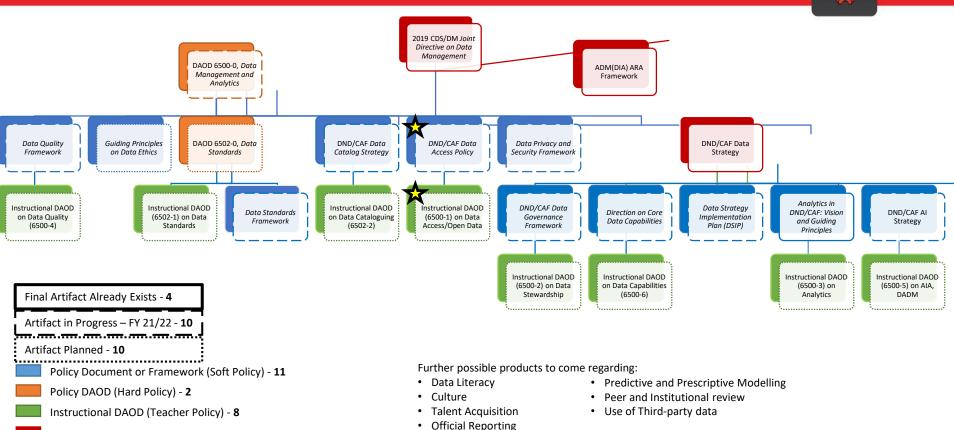
In order to achieve meaningful analytics capacity, DIA is working to build strong foundations on key areas like governance, policies, data management, culture and training



## **Core DND/CAF Data Capabilities**



# ADM(DIA) Policy Suite (Draft)



Core Document - 3

**The Data Science** team consists of experienced data scientists from Defence Research and Development Canada (DRDC) embedded within DG DASI to work on solidifying our current analytics capabilities, and continue to move the Department's business insight into the future.

They focus on delivering advanced data and analytics use cases using the autonomous or semi-autonomous examination of data or content using sophisticated techniques and tools, to discover deeper insights, make predictions or generate recommendations.

They use advanced analytic techniques including data/text mining, machine learning, pattern matching, forecasting, visualization, semantic analysis, sentiment analysis, network and cluster analysis, multivariate statistics, graph analysis, simulation, complex event processing, neural networks.



#### **BI Use Cases**

- Currently, we have **49** BI use cases underway to support L1s.
- 9 of them are priority use cases (Tier 1).
- These include some of the following:
  - ATIP Dashboard
  - DND Data Warehouse
  - Health Dashboard
  - COVID-19 Dashboard Project
  - L1 Financial Status Dashboard
  - L0 Dashboard

#### **Questions?**



