

CAF Digital Literacy Initiative

4th Digital Transformation in Government Conference

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Outline



- What is the problem definition and solution?
- What is the CAF's plan for modernization?
- How does the CAF define Digital Literacy?
- What is the CAF's Roadmap for Digital Literacy?
- How will the CAF improve digital literacy?
- What are the challenges and next steps?

Problem statement



 How does the CAF undertake digital transformation to conceive of future concepts, develop new processes, incorporate digital technologies, prepare the workforce and implement culture change to provide operational advantage in the Battle Space, improved stewardship in the Corporate Space, and re-imagine our workforce?

Solution



- CAF Digital Campaign Plan (DCP) released June 2022
- Strengthening the Digital Backbone initiative
 - Funding to CAF & DND L1s to develop and enhance CAF digital capability and to provide a catalyst for the implementation of the DCP

Digital Vision for CAF modernization



 The CAF will become digitally transformed by 2030. The Digitally Transformed CAF will be relevant, resilient, interoperable, integrated, and efficient. Through a stable, resilient and adaptive technology and security backbone and with a mature, common and accessible data mesh, we will establish a digital foundation for the application layer that will revolutionize the way we process, analyse, present and deliver the insights garnered from data to better inform decision-makers. These digital capabilities will be secure, integrated, accessible, intuitive, and delivered at the speed of operations. Our enhanced decision-making will provide an operational advantage in the Battle Space, and improved stewardship in the Corporate Space.

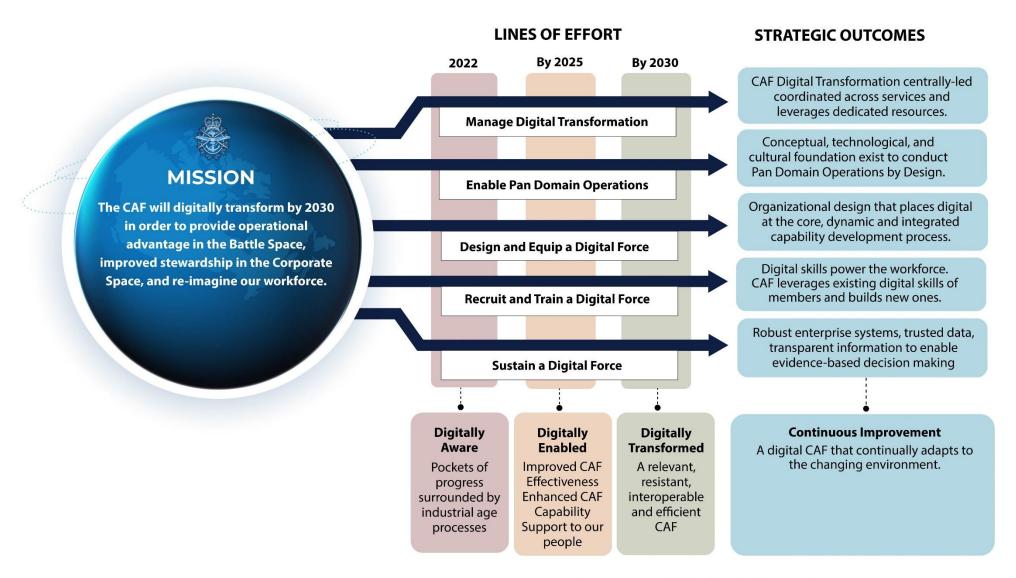
Mission Statement



• The **CAF** will digitally transform by 2030 in order to provide operational advantage in the Battle Space, improved stewardship in the Corporate Space, and re-imagine our workforce.

Op Design





Stages of Digital Maturity

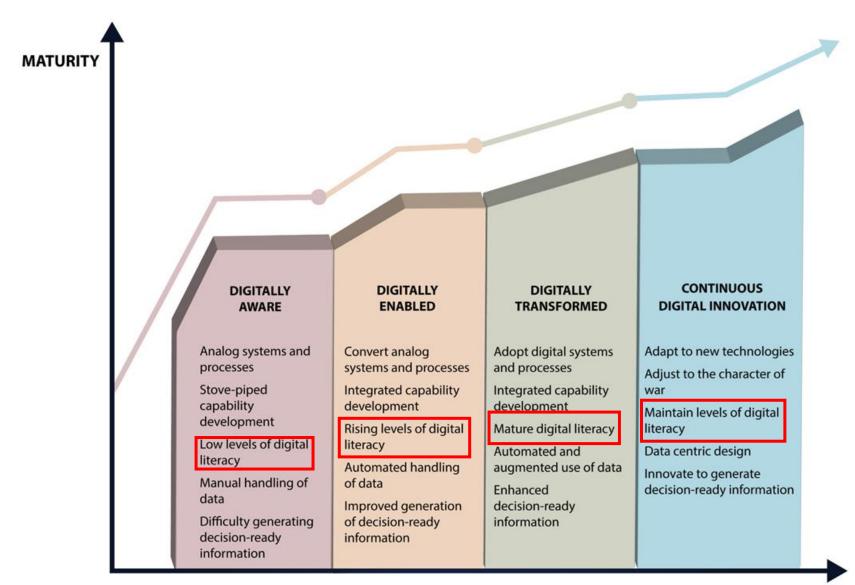
Line of Effort 4: Recruit and Train a Digital Force

Objective 4.2: Develop the digital literacy knowledge, skills, and attitudes necessary for CAF members to successfully interact in the current digital world and to shape the CAF of the future.

- The CAF generates digital skills primarily to serve technical functions, but is absent from general specifications. Pursuing these digital skills of often viewed as career-breaking.
- Becomes: The CAF generates technical digital skills, and integrates digital literacy into the professional development framework in priority areas. Digital skills are valued and recognized.
- End-state: The CAF generates technical digital skills, and delivers digital literacy across the workforce with all elements of the professional development framework. The CAF utilizes digital skills of member effectively and by design. Digital skills are sought after, by practitioners and leaders alike.

Digital Maturity Model





Define Digital Literacy



- Digital literacy encompasses an individual's skills for successfully using data, information and communications technologies, and interacting with digital information ecosystems.
- It is about understanding ethics, responsibilities, and rights surrounding technology, acknowledging digital trends and their relevance, discerning data and information in a digital environment, and communicating effectively within it.
- Digital literacy cannot be assumed and because it is concerned with interactions, it is perishable. It demands skills, knowledge and attitudes to interact in the present, while relying on a more general set of intellectual skills to evolve in the future.

Digital Literacy Roadmap



- Step one Define Digital Literacy End-State
 - Develop Personas and Competencies
 - Refinement based Defence Advisory Board Study Team Report
 - Coordination/engagement with CAF Digital Community
- Step two —Targeted, short-term upskilling
 - Address literacy gap in priority areas
 - Procure licenses from various online learning platforms for CAF use
 - Establish curated learning paths based on Digital Personas and Competencies
 - Internally develop learning path(s) for Digital Commander, Enabler
- Step three Integrate Digital Literacy into CAF Professional Development System
 - Provide final version of Digital Competencies to Chief Military Personnel
 - Collaborate as required/requested

Digital Personas & Competencies



- Early collaboration beginning in ~2021
- Current version of Digital Personas and Competencies a synthesis of various sources and engagement
 - ADM(DIA) Data Governance Framework
 - DoD AI Training and Education Strategy (2020)
 - JCSP Service paper, Developing Digital Literacy Across CAF Officers Through Training and Education (Maj M Charette)
 - Defence Advisory Board Report Digital Literacy as an Enabler for Transformation

Personas



- Each Persona is an archetype of a different possible digital citizen within the CAF
- 6 Personas
 - 4 Common (Development Period-based) Personas
 - Potentially more
 - 4 Role-based Personas
 - New role-based personas expected

Common Personas



Persona	Rank Lvl	Definition	Overall Literacy Level	Notes
Digital Operator	ALL	-user of digital products, majority of CAF -application of existing digital solutions -capable of providing feedback on current digital solutions	Basic	DP1
Digital Supporter	Moderate DP2		DP2	
Digital Leader Officer delivered across the C		-ensures appropriate digital capabilities are developed and delivered across the CAF -capable of being a "Product Sponsor"	Mod/High	-DP3 -depening on role, outside learning may be required
Digital Senior Leader	Snr Officer	-leads the CAF's adoption, use and future digital plans -not a technical "expert," guidance and policy "expert -creates digitally-aligned policy, doctrine and guidance -ensures digital policy carried out by personnel they lead	High	-DP4 -level of competency can vary depending on role

Role-based Personas



Persona	Rank Lvl	Definition	Overall Literacy Level	Notes
Digital Producer	Both, Role based	-produces digital products to meet current and future needs of the CAF -a digital technical expert -potential "Product Owner" -in lieu of contracted support, or oversee team of contracted digital specialists	High, technical	Technical Digital Literacy Requirements met by outside resources
Digital Specialist	digital creation as a member of a development team		High, specialized	Specialized Digital Literacy Requirements met by outside resources
Digital Defender			High, specialized	Specialized Digital Literacy Requirements met by outside resources
Digitial Enabler	Snr Officer, Digital Command Team	-complete a design process with a Product Owner, Designer and Tech Lead - review, complete and recommend a cloud CONOPs and SCAR created by team - review, complete and recommend a data request, API call or connection request	Moderate, specialized	Key leaders within organizations undergoing digital transformation, digital decision maker

Competencies



	Understand Digital Terminology	
Foundational Concepts	Understand Digital Technology	
	Understand Digital Rights and Responsibilities	
	Apply Digital Safety and Security	
	Access Current Digital Tech	
	Integrate Current Digital Technologies	
Digital Application	Locate and Access Digital Info	
	Assess and Synthesize Digital Knowledge	
	Learn Digitally	
	Communicate and Collaborate Digitally	
	Apply Cyber Security Best Practices	
Digital Defence	Understand the Cyber Threat Environment	
Digital Defetice	Aply Cyber Defense Measures	
	Develop Cyber Incident Response Plans	
	Understand Principles of Cross-Domain Data Stewardship	
Digital Innovation	Identify Deficiencies in Digital Solutions	
Digital Illiovation	Recognize Opportunity for Digital Innovation	
	Apply Cross-Domain Digital Strategies	
	Manage Lifecycle of Digital Tech	
Digital Management	Manage Product Development	
Digital Wallagement	Manage Digital Competencies	
	Report Issues	
	Define and Express Digital Requirements	
Digital Development	Develop Digital Solutions	
Digital Development	Support Digital Development	
	Integrate New Digital Tech	
	Understand Digital Trends and Emerging Tech	
Digital Enablement	Foster Digiital Initiatives	
Digital Ellabicilicit	Define and Communicate a Digital Vision	
	Understand Digital Policy and Doctrine	

- For each Persona, each of the 20 competencies is assigned a level between 0-3
 - 1 Basic Level of Competency
 - 2 Moderate Level Of Competency
 - 3 Advanced Level of Competency

Organizational Digital Literacy



- Aware: The CAF generates digital skills primarily to serve technical functions, but is absent from general specifications. Pursuing these digital skills is often viewed as career-breaking.
- **Enabled**: The CAF generates technical digital skills, and integrates digital literacy into the professional development framework in priority areas. Digital skills are provided to diverse groups of members with a range of baseline abilities; new digital skills are valued and recognized.
- Transformed: The CAF generates technical digital skills, and delivers digital literacy across the
 workforce with all elements of the professional development framework. The CAF utilizes digital
 skills of member effectively and by design. Digital skills are sought after, by practitioners and leaders
 alike.

Organization Digital Literacy									
	Quantity	Quality	PD System	Culture					
BASIC	pockets of basic digitally literate members	small numbers of members have required literacy level based on rank and role	Digital Competencies defined, included in Officer and NCM General Specifications	The organizational focus is to train and educate the users to be effective with existing digital systems and processes					
MODERATE	at least basic literacy	50% of members have required literacy level based on rank and role (as per matrix above)	Digital Literacy present within all specifications, PD, education and training	The organizational focus is to develop systems and processes with the individual user as the driving force					
ADVANCED	majority of members achieved basic	majority of members have required literacy level based on rank and role (as per matrix above)	All CAF Members have received digital training at all DP levels	The organizational focus is to enable users to drive innovative change in the information space and information management processes					

Challenges



- Capacity people and talent
- Process traditional and bureaucratic
- Institutional CAF-specific challenges

Next Steps



- Engage stakeholders to refine Personas/Competencies
- Continue working through procurement (licenses, Administrator)
- Provide Digital Personas to potential vendors for learning path development
- Continue working with CMP for long-term solution
- No "end-point" to literacy, constantly evolving

Q&A

