



Enterprise Architecture in DND/CAF Mr. Steve Challinor Director, Defence Enterprise Architecture (DEA) February 6, 2017

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Introduction

The aim of today's presentation is to

- Acquaint participants with Enterprise Architecture in the context of DND/CAF
- Provide an overview of the DND/CAF EA Programme enablement and lessons learned





Department of National Defence (DND) and the Canadian Armed Forces (CAF)

- DND is the largest federal government department in Canada.
- DND and the CAF together have a budget of approximately 20 billion dollars, and over 115,000 employees, including:
 - 65,000 Regular Force members;
 - 25,000 Reserve Force members (including
 - 4,000 Canadian Rangers); and
 - 25,000 civilians.
- The Deputy Minister has responsibility for policy, resources, interdepartmental coordination and international defence relations; and
- The Chief of the Defence Staff has responsibility for command, control and administration of the CAF and military strategy, plans and requirements.



- **3 Primary Roles for DND/CAF**
- Defend Canada
- Defend North America
- Contribute to International Peace
 and Security

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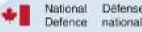
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EA – A Basic Understanding

- Imagine that we find ourselves in a new circumstance, job, travel, function, situation, environment etc.
- Q> As human beings, what do we do and why?
- A> Seek understanding by asking: WHO; WHAT; WHERE; WHEN; WHY; HOW





Origins of EA

- These SIX little words seek to give "understanding" and awareness sufficient for us to survive and to thrive in any environment
- Therefore it is no coincidence that these words are at the heart of EA in its quest to create understanding out of complexity!



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Effective Communications

Everyone can relate to building architectures

- Architect's Rendering
- Floor plans and construction views
- Electrical wiring and plumbing diagrams, etc.
- All of which is about creating standards for effective communication





Without Effective Communications?

Without an architecture:

- No overarching design
- Point to point custom interfaces
- Duplication and redundancy
- Visible and invisible gaps
- High production and maintenance costs
- High Total Cost of Ownership (TCO) with a low Return On Investment (ROI)

Sound familiar? No Common Understanding!







EA – the Ultimate Enabler!





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DND/CAF Enterprise Architecture Programme Overview



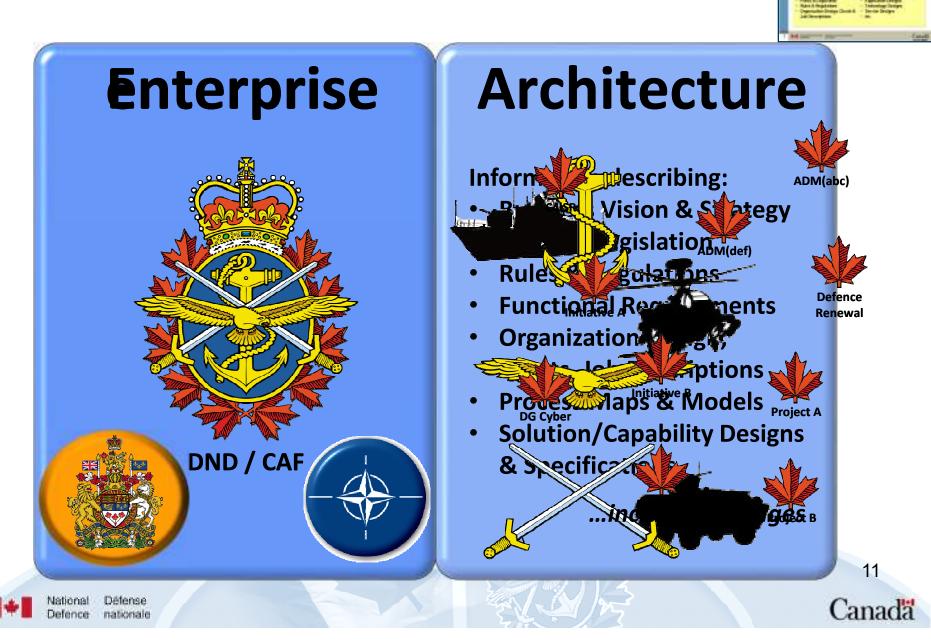




EA Defined

and the durate the conjunction

the DND/CAF Perspective of





DEA Mandate

To actively establish, implement and manage a robust EA Programme that will ensure understanding by;

- enabling all DND/CAF organizations to employ a standard architecture framework and software tool
- establishing an integrated repository of DND/CF Architecture information to permit sharing of a common set of solutions
- providing a support capability to advise and assist EA practitioners, i.e. training, helpdesk, SME assistance





Building a successful EA Programme for DND/CAF



A successful EA Programme is built upon a number of "pillars": De Ray

DND/CAF

Architecture

Framework

<u>Vision</u> - The Enterprise Architecture practice is embedded into the DND/CAF daily activities. The use of a clear, consistent, communicated and managed architecture provides decision makers at all levels with current information in support of change management and decision making.

All these components contribute, in varying degrees, to providing DND/CAF with the ability to do Enterprise Architecture.

<u>*Mission*</u> - DEA will develop, implement and maintain the DND/CAF EA Programme to ensure decision makers and systems developers at all levels are well supported with timely and accurate architectural information, tools and training.

Client

Services

Governance

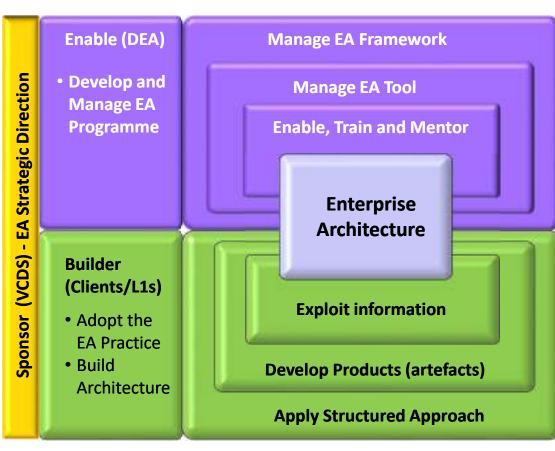
Tools, Training

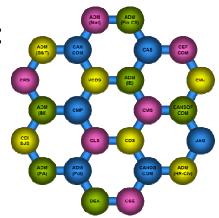
and Methodologies

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DND/CAF EA Programme Intent Concept of Operations / Roles





"Builders" of architecture require a sustainable, scalable, repeatable process by which they can gather and document information about their business or organization.

The EA Programme now provides the components necessary to allow clients to perform Enterprise Architecture in support of their decision-making and transformational activities.



EA Content Landscape



Projects

Domain

Change Initiative

A **Strategic** Target Architecture is assembled from GoC policy, CFDS, ARA, DAODs, IP, PAA, FP&R, Capability Plan, etc.

Strategic

Segment

Project

Projects are required to develop using the DNDAF views that show alignment to the Strategic Target Architecture.

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Segment (domain) owners are engaged to develop architectures (e.g. Navy, C4ISR and MA&S) in alignment with Strategic Target Architecture



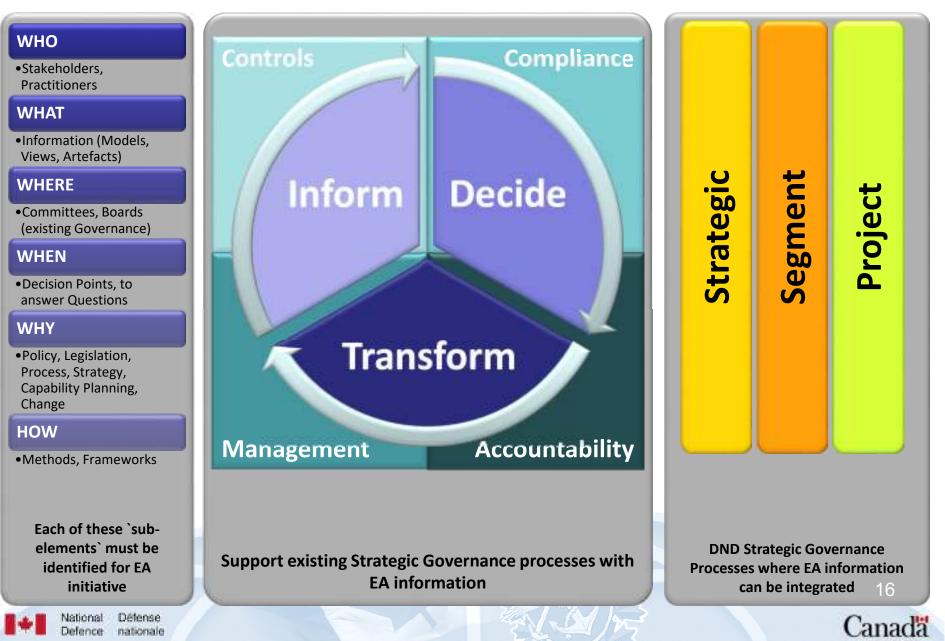


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Governance of the DND/CAF Enterprise Architecture

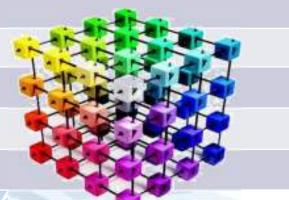




Benefits we are seeking

By capturing and presenting information in a consistent and uniform manner, Enterprise Architecture can inform, guide, and constrain the management decisions required for transformation in the following ways:

- Align investment/divestment decisions to support accountability, control and higher level Defence Strategies
- Facilitate gap analysis between current and future capabilities and the identification of trade-offs
- Gains in effectiveness, efficiency and reuse of existing solution assets
- Align services with capability objectives and create visibility needed for Performance Measurement
- Business-process improvement
- Coherence of business rules
- Management of change
- Regulatory and standards compliance



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Implementation Status

Current User base	
	 400+ named users on DND local network Approx. 201 project/organization repositories on DND local network
Concurrent use network licence	
	 600 Local network licences: Production, Staging and Training 100 Secret network licences 50 Stand alone Secret network licenses
Networks	
	 DND local, DND Secret (CAN-US) and Stand Alone Internal Secret network DND Testing Environment
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Examples of Client



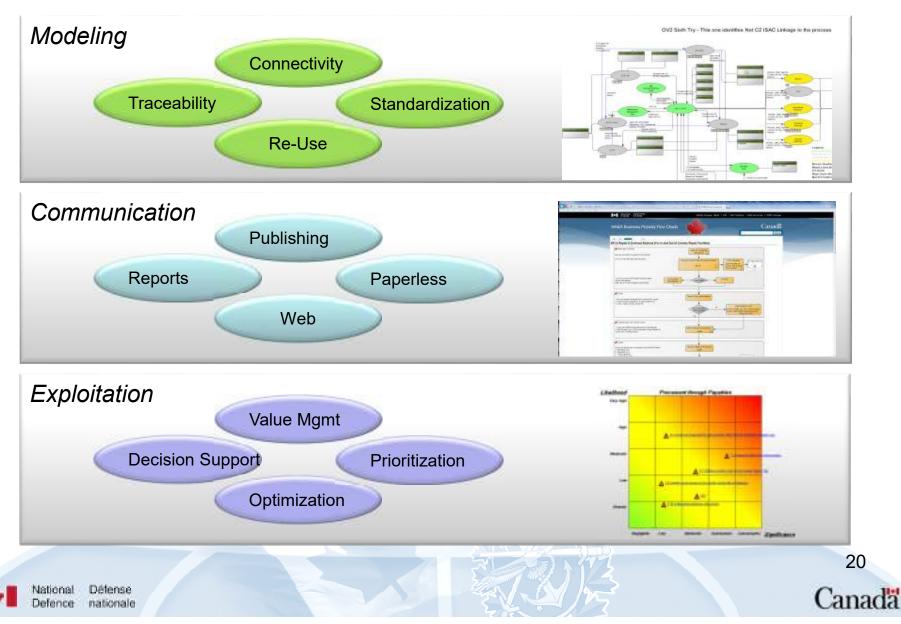
engagements

	Client	Initiative
Strategic	C Prog - DMPP	PAA and Defence Business Model and supply chains support. The EA tool is the system of record for the PAA and supporting business process models & supply chains
	DRT	Value Modeling Maintenance and Execution Initiatives
Segment	RCN	Royal Canadian Navy Enterprise Model support
	ADM(Mat)	Maintenance and Support Supply Chains & policy integration support
	CFD - DC4ISR	C4ISR Programmatic Governance View & Joint Missions Threads
	ADM(HR-Civ)	Common HR Business Processes (TBS) support
Project	CANSOFCOM	Classified C2 Project
Pro	CMP	MPMCT 19
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EA in Use

Not just pretty pictures!





Lessons Learned/Observed

What we've learned/observed;

- Be practical know when good is good enough
- Many Snowflakes
- Client experiences/soundings
- Senior level commitment is key
- Don't underestimate Level of Effort for sustainment
- It takes time, Keep moving toward end goal.





Summary

 The intent of the DND/CAF
 EA Programme is to manage the Enterprise Architecture capability via the Sponsor, Enabler and Builder roles.



- It is designed to address & support a multi-layered approach to Enterprise Architecture.
- The capability is growing we have reached IOC* with FOC** planned in the next few years.

*Initial Operational Capability **Full Operational Capability









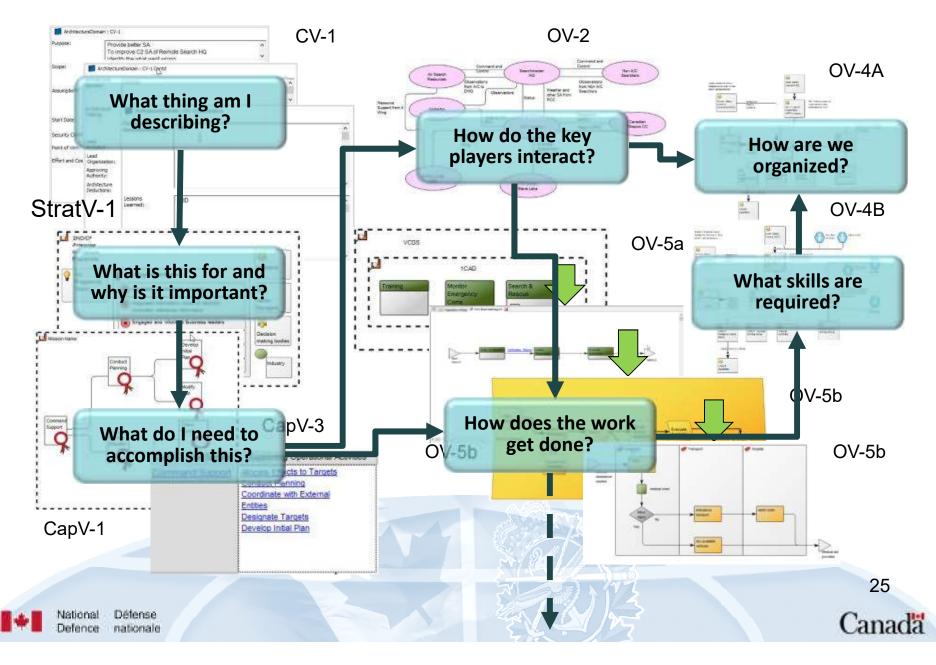


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DNDAF Views Interrogatives (1/2)





DNDAF Views Interrogatives (2/2)

