Science and Technology in Action: Delivering Results for Canada's Defence and Security

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A Renewed Context for Defence and Security S&T

Key drivers:

- Evolving threat environment requires improved agility, responsiveness
 - Diminishing trend line for operations and budgets
 - Expectation to renew capability rather than expand capacity
- Innovation system dispersed, global accessing external capacity, solutions wherever they can be found is crucial to success
 - Government scrutiny on internal versus external efforts
 - New Procurement Strategy
- Need to deliver S&T more effectively meet client requirements through focus on strategic outcomes and through increasing burden-sharing required with Allies and partners
 - Areas for expansion and reduction pose challenges
 - Real outcomes must ensure delivery and influence





Policy Drivers for S&T Transformation

- Canada First Defence Strategy (refresh)
 - Realities of Afghanistan withdrawal, reduction in combat operations
 - Deficit situation forcing an "affordable" force structure and capital replacement program
 - Anticipate largest DND/CAF recapitalization program in history
- Global Engagement Strategy
 - Strategic plan to address Canadian objectives in Asia-Pacific, Americas and with traditional alliances
- Defence Procurement Strategy Launched February 5, 2014



Why a New Strategy

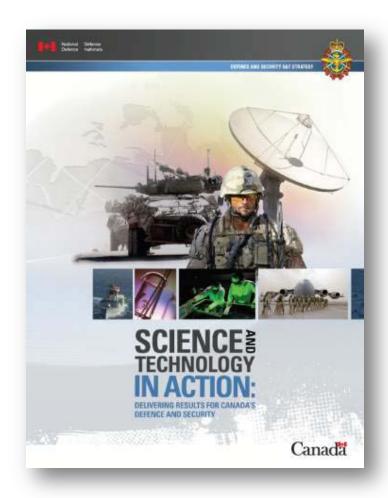


- Key drivers of change:
 - Need to deliver S&T more effectively meet client requirements through focus on strategic outcomes (versus tactical outputs).
 - Innovation system dispersed, global accessing external capacity, solutions wherever they can be found is crucial to success.
 - Resources constrained greater efficiency, accountability, coordination, burden-sharing required.
 - Evolving threat environment requires improved agility, responsiveness.
 - DND/CAF, security landscape business process transformation a top priority, Strategic Review and Deficit Reduction Action Plan implementation ongoing, policy refresh on the horizon.
- Context of defence and security S&T has evolved. Existing Strategy published in 2006 increasingly dated.



Defence and Security S&T Strategy

- Officially launched December 12, 2013.
- A long-term blueprint to ensure DND and the Canadian Armed Forces have tools and capabilities to defend Canada and carry out core missions and activities, and adapt to ever-changing demands.
- Outlines what will be needed to implement a successful defence and security S&T program focused on key partnerships.
- DRDC intends to pursue a collaborative approach marked by three principle modes of interaction:
 - Build, Collaborate, and Access.



Available on line at: http://www.drdc-rddc.gc.ca/assets/DRDC Internet/docs/en/ST-Strategy.pdf



What does this mean for DRDC?



1) Purpose-Built S&T Program

- Generate a set of agreed priorities that drive S&T activities focused on strategic outcomes.
- Integrated: One Agency-wide approach to program management.
- Programs are reviewed and assessed at the Agency level prior to resource allocation.

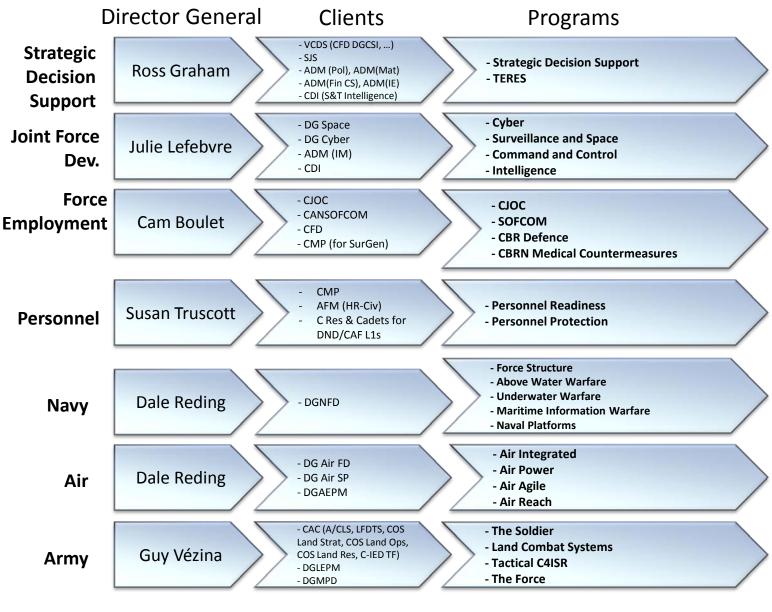
2) Allocating Resources Strategically

- Departmental S&T investment supports smaller number priorities while increasing effort in strategic, classified, and sensitive areas, to achieve maximum impact.
- Resource allocation (including personnel) tightly aligned with program decisions.

3) New way of Delivering S&T Solutions

- Defence and security S&T engages across the innovation system catalyst to ensure best solutions are adopted, wherever they are generated.
- Three principal modes of interaction: Build, Collaborate, Access.
- Leverage the resources and expertise at all DRDC locations to manage a single program of work.





Centre for Security Sciences – Public Security



3 Key Objectives of the Defence Procurement Strategy 5 Nov 13

- deliver the right equipment to the Canadian Armed Forces (CAF) and the Canadian Coast Guard in a timely manner;
- 2. leverage our purchases of defence equipment to create jobs and economic growth in Canada; and
- 3. streamline defence procurement processes.



Delivering the right equipment to the Canadian Armed Forces and the Canadian Coast Guard in a timely manner

- Ensuring early and continuous industry and client engagement in the procurement process;
- Starting in June 2014, publishing an annual *Defence Acquisition Guide* that outlines National Defence (DND) procurement priorities; and
- Establishing within DND an independent, third-party challenge for military requirements.



Leveraging our purchases of defence equipment to create jobs and economic growth in Canada

- Using a weighted and rated Value Proposition, to assess bids for defence and major Canadian Coast Guard procurements;
- Implementing an Export Strategy to support international sales opportunities and participation in global value chains;
- Identifying and applying Key Industrial Capabilities (KICs) to inform potential economic benefits of individual procurements so that they meet the CAF's needs and increase the competitiveness of Canadian firms in the global marketplace; and
- Establishing an independent, third-party *Defence Analytics Institute* which will provide expert analysis to support the objectives of the Defence Procurement Strategy (DPS) and its evaluation.



Industrial Benefits

- IRBs will be transformed into Industrial and Technological Benefits (ITBs) and will require regional assessment to balance benefits across Canada
- Rated and weighted Value Propositions (VP) for defence and major Canadian Coast Guard procurement projects.
- Key Industrial Capabilities, or KICs, as originally identified by Tom Jenkins in his report <u>Canada First: Leveraging Defence Procurement Through Key Industrial Capabilities</u>, will be a significant factor in the rating and weighting of Value Propositions.
- Value Proposition ratings will favour actions that lead to improved economic outcomes – timing of fulfillment will be a factor
- Requirement remains to reinvest work into Canada equivalent to 100% of the contract value.
- Early and extensive industry engagement, along with sound analytics and knowledge of the defence sector and its capabilities, will allow the Government to provide clearer direction.
- This will support the long-term sustainability and growth of Canada's defence and security industrial sectors.



Streamlining defence procurement processes

- Adopting a new regime to ensure streamlined and coordinated decision-making for defence and major Canadian Coast Guard procurements;
- Establishing a *Defence Procurement Secretariat* within Public Works and Government Services Canada to ensure close coordination among key departments; and
- Reviewing the current National Defence delegated authority to purchase goods with a view to increasing the level from the current \$25,000 to achieve more efficient procurement practices.





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