

## KICs and the NSPS

Sailing toward global leadership (?)



Maritime Security Program Workshop
National Shipbuilding Procurement Strategy (NSPS) – Charting the Course
June 6th, 2014





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### TODAY

- 1. Introduction
- 2. A challenging context
- 3. KICs and the NSPS
- 4. What do we want to be?
- 5. Some conclusions





### CANADA'S DEFENCE INDUSTRY

- > Relatively large (by Canadian standards)
  - CA\$12.6 bn in revenues for 2000 firms

- > A conundrum:
  - A major global exporter (ranked 14th)...
    - ...with just one top 100 global player



## 1. INTRODUCTION





## FIRST THINGS FIRST

The NSPS is ambitious, wide-ranging and represents an essential step for Canada's security as well as for its industrial competitiveness.

Government and industry (and academia) must work closely to make Canada a global leader.

As the program for this event notes: "the Auditor General [...] noted that 'a gap appears to be developing between the CFDS level of ambition, the evolving naval capabilities, and the budgets'."





# 2. A CHALLENGING CONTEXT





### THE WORLD IS NOT STATIC...

#### Strategic environment

#### China

- Blue-water navy
- Territorial claims
- Arctic

#### Russia

- Expanding sphere of influence (UA, Syria, Egypt, China, BRICS, etc.)
- Arctic

#### Non-military NATSEC ops

- Drug smuggling interdiction (CBSA, CBP)
- Homeland security (USCG, USN)
- Anti-piracy
  - Etc.



#### **Industrial environment**

- General industry trends
  - COTS
  - Decreasing # of platforms
- Some shipbuilding trends
  - The rise of emerging economies
  - Consolidation to cut capacity (e.g. China)
  - o The end of go-it-alone?
    - UK and South Korea (MoD Daewoo contract)
    - Australia and South Korea (Daewoo again)
  - Non-traditional Partnerships (French Mistral sale to Russia)





# ...NOR ARE CANADIAN STRATEGIC ADVANTAGES

- Canada a niche player while the global industry is highly concentrated (4 players account for 55% of global revenues [IbisWorld, 2014])
- From a hull (limited advantage) to a « floating computer » (excellent position)
- IP development vs revenue potential (incl. int'l)
  - Obsign?
  - Sustainability
  - Training
  - Technology







#### **Key policies**



Promotion of KICs

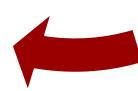
- SPA
- Security of supply
- Market-based IRBs



Making Canadian firms attractive



Synchronization of KICs and requirements







## 3. KICs AND THE NSPS





### THE INDUSTRY AT LAST...

- Before CFDS (2008): NO industry in White papers
- DPS and an approach based around Key industrial capabilities (KICs) can help transform the Canadian industry on the global stage
- The difficult question of Industrial Regional Benefits (IRBs)...
- A central issue: How can we benefit from KICs in the NSPS?







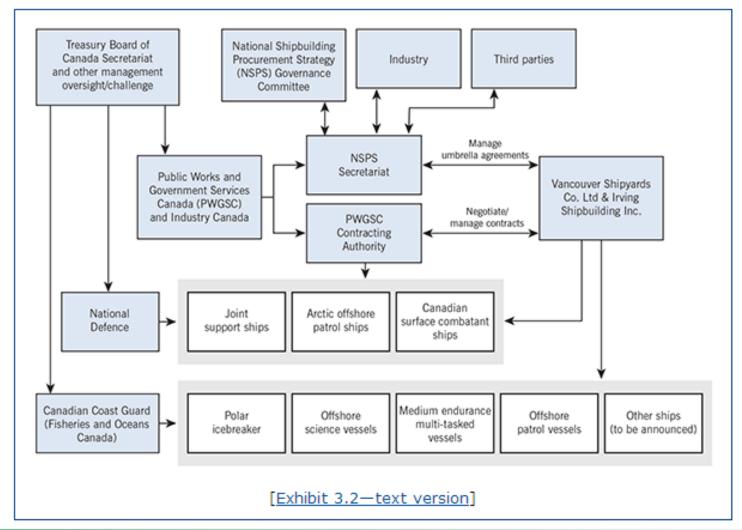
# KICS JENKINS REPORT VS. REVISITED CRITERIA

	Jenkins report KICs		Revisited capabilities
•	Arctic and Maritime Security	•	Geographic expertise
•	Protecting the Soldier	•	Software integration and
•	Command and Support		computer security
•	Cyber-Security	•	Specialized garment making and
•	Training Systems		design
•	In-Service Support	•	Man-machine interaction
		•	Process design
		•	Situational awareness
		•	Experiential learning conception
		•	Customer interaction



Source: Cimon (forthcoming)

Exhibit 3.2—The interrelationships between key entities in the National Shipbuilding Procurement Strategy





Source: OAG, 2013 Fall report

# 4. WHAT DO WE WANT TO BE?



### SHAKESPEARIAN DILEMMA

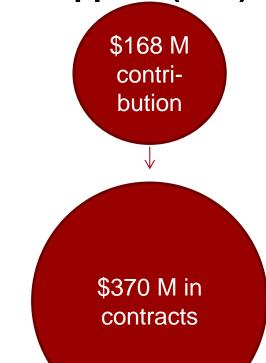
#### A classical national industry

OR

A global value-added supplier (JSF)



\$0.71 to **GDP** 





Sources: KPMG, R&D Review

# 5. SOME CONCLUSIONS TO MOVE AHEAD





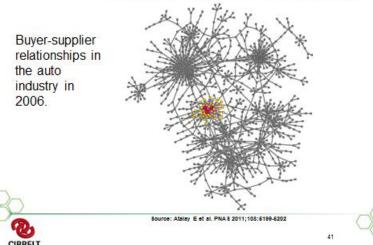
# (1) SHIFT THE MINDSET e.g. AUTOMOTIVE

From a « national » value chain...

AN INTEGRATED INDUSTRY - AUTOMOTIVE Risk of Stuck In Relations Productivity Retention the middle pressure Crédit Government Contracts Reputation Network and Moving toward higher value added activities Mindshare Niches brand building Retention Increasing overlap and « Local » focus Specialization and focus tensions Source: Cimon & Veronneau (2010) CIRRELT

...to global value networks

#### SHARED VALUE CREATION





## WHAT RESEARCH SAYS

#### Summary of network position cost/benefits in the literature

	Primary motivation	Primary consequence
Isolated	- Protection purposes	- Reduced performance
Networked	- Maximization of positional advantage	- Improved performance



Source: Cimon (2011)

## (2) INVOLVE STAKEHOLDERS

- The battle for public opinion
  - o F-35
    - Dassault vs Lockheed Martin over Canadian Content
  - Icebreakers
    - Davie vs. Seaspan over time-to-deliver and cost savings (\$500M?)

Source: Armée de l'air/CBC

Source: CCG

- Develop an engagement strategy
- Proactive PR is a must (see data from Strategic Counsel, 2010):
  - 1/3 of Canadians say CF are getting what they need
  - 1/3 of Canadians say the eqpt is procured on time





## (3) DO SWEAT SCM DETAILS

- Collaboration w/suppliers
  - E.g. Intel
- Global sourcing
- Efficient pooling of some resources
- QA and supply chain security controls
  - Back door on military grade chips (Skrobogatov, 2012)
  - Pervasiveness of suppliers from emerging countries (PRC)...
- Other issues
  - Counterfeit parts
  - DPRK gold in IBM processors (Globe and Mail, 06/05/14)





## (4) FOSTER INNOVATION

- In products, processes and management techniques.
  - E.g. P&G, paint, Whole Foods
- Challenge the status quo



- Play the value-chain-game
  - Follow the value!!!







## A BALANCING ACT...

- Industrial policy vs. markets vs. defence
  - DPS and industrial policies: a conundrum
- Access to IP vs. control: what are the necessary strategic gains?
- Old issues, new needs? (Arctic issue and ship acquisition)
- Adapting to the Asian century
- What to share? Cisco in China; Global accounting giants, etc.



Sources: Cimon (2011, 2014)

















Comments and suggestions are welcome

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