

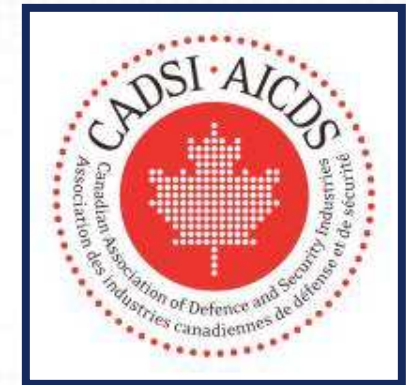


National
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ROYAL CANADIAN
NAVY



MARINE
ROYALE CANADIENNE



Navy Outlook 2013

Overshadowed Investments: Enablers & Multipliers
Clothing, Tugs, NMCM & Diving

Presentation to CADSI 11 April 2013

Cdr Bob Klein, DNR 3, (Platforms, Aux & NMCM Section Head)

Cdr Dave Coffey, Capital Programme Coordination

Outline

- Naval Mine Warfare
- Fleet Enablers & Multipliers
- Asks of industry
- RCN-Industry Dialogue Period

Director Naval Requirements 3 Staff

DNR 3 – Platforms, Auxiliary Vessels, NMCM & Diving, Seamanship, Operational Clothing, EOD, FP

Section Head: Cdr BOB KLEIN (819-939-3946)

Robert.Klein@forces.gc.ca

NMCM + Kingston Class Team	Auxiliary Vessels & Harbour Services
DNR 3-2: Project Director (RMDS, RSSLE, DG, IPKS, MCDV P.E.) LCdr CHAD NAEFKEN (819-939-3963)	DNR 3-4: Project Director (ORCA, Diving Tenders, Barges) Lt(N) MARC PARENT (819-939-3959)
Tugs, Diving, EOD, U/W FP	Operational Clothing, Seamanship & Equipment
DNR 3-5: Project Director (Naval Large Tug, RCC, Re-breathers) LCdr GRAHAM COLLINS (819-939-3965)	DNR 3-7: Project Director (NICE, Small Boats Capability) Mr MARK De SMEDT (819-939-3966)
Force Protection (FP)	
DNR 3-9: Project Director CPO1 PETER CHARTIER (819-939-3963)	

Naval Mine Countermeasures (NMCM) & Diving – Outlook

Challenges:

- Stockpiles of legacy sea mines
- Proliferation of modern sea mines
- Advanced sea mine sensors
- Ease of deployment
- Requirement to operate in the littoral
- Requirement to operate in the Arctic
- Maritime IEDs are easy to construct ,yet pose challenges to render safe

Opportunities:

- Access to robust COTS technologies
- Technological advances in:
 - Unmanned Systems
 - Synthetic Aperture Sonar
 - Low Frequency Broadband Sonar
 - Automated detection/classification
 - U/W communications
 - Signature Management Systems
- Leveraging opportunities with allies

Future Focus

Achieve Full NMCM operational capability

Enhance the Kingston Class remote mine hunting and disposal systems

Remote Mine Hunting and Disposal (RMDS)

A capability to search, detect, classify, identify, and dispose of modern naval mines in areas where Canadian maritime forces operate

- **Update**

- In Definition Phase
- Staffing underway for Project Approval Implementation

- **Procurement Strategy**

- Competitive

- **Key Milestones**

- Project Approval (Def): Sep 12



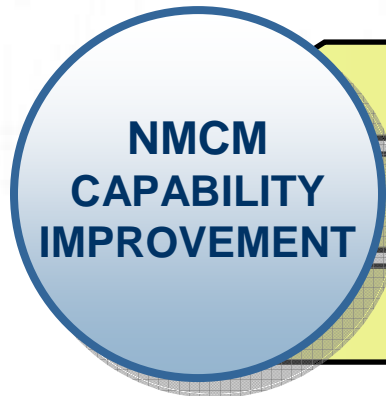
DNR 3: Capability Interests



REMOTE MINEHUNTING AND DISPOSAL

ROUTE SURVEY SYSTEM

DEGAUSSING / POSITION KEEPING



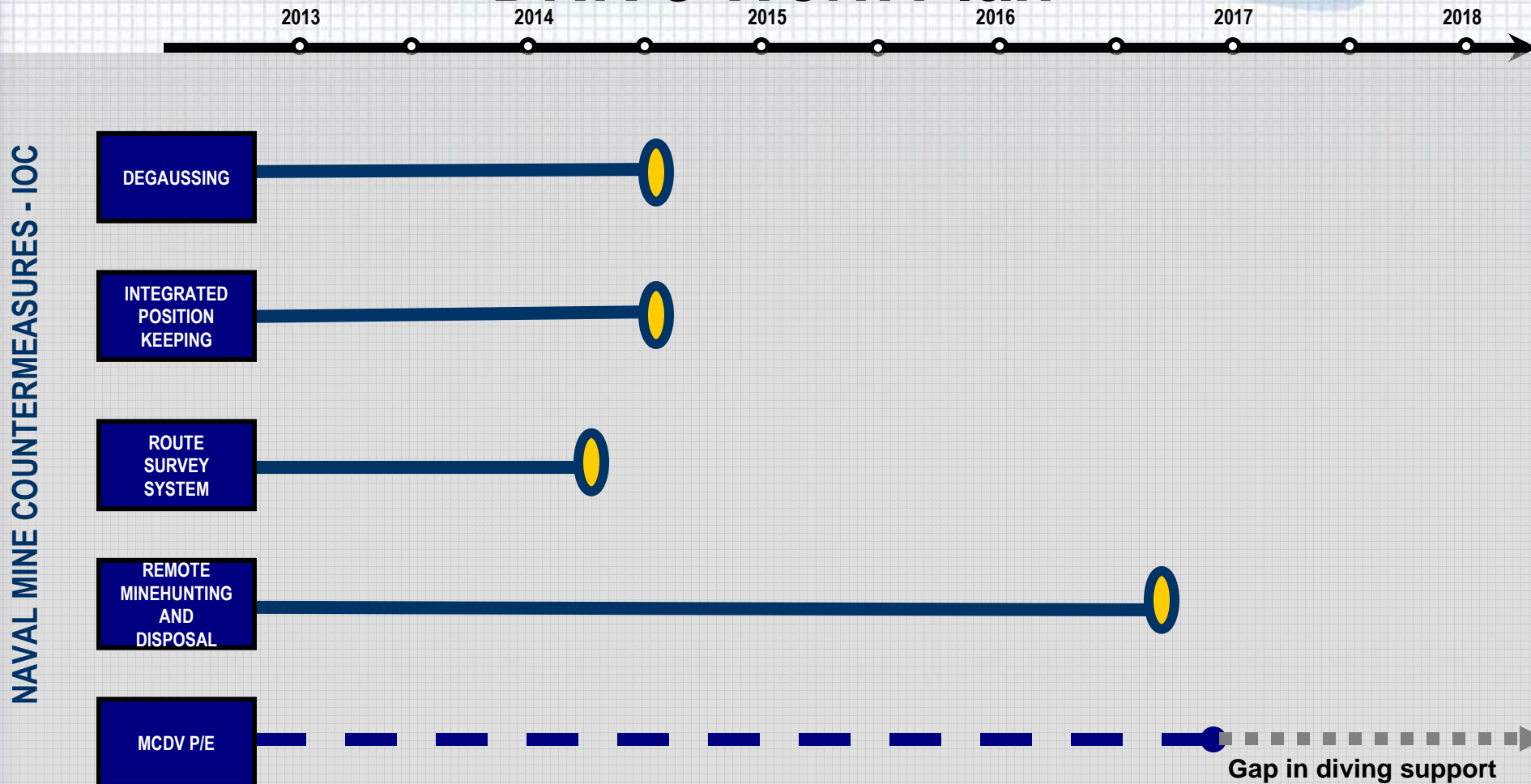
FORWARD LOOKING SONAR

MINE AVOIDANCE SONAR

SYNTHETIC APERTURE SONAR

AUV SAS

DNR 3 Work Plan



Enablers & Multipliers – Outlook

DNR 3 – Legacy Platforms, Auxiliary Vessels, MCDVs, NMCM & Diving, Seamanship, Operational Clothing, EOD, FP

Challenges:

- Ever evolving ships' small boats' role
- Improved crewing protection (clothing)
- Harbour services to meet the needs of recap fleet e.g. tugs, crane barges
- Recapitalising unique capabilities e.g. diving, FP, UUVs

Opportunities:

- Access to robust COTS technologies
- Technological advances in:
 - Unmanned Systems
 - Diving systems
- Shipbuilding Industry
- ISSC
- Leveraging opportunities with allies

Future Focus

Leverage current technology to provide operational support, including clothing and equipment required for naval operations ashore or at sea

replace obsolete and aging support equipment, systems, auxiliary vessels and clothing to support the requirements of the recapitalized fleet

Surface Combatant Boat (SCB)

Replace the Halifax Class Hurricane RIB and ship's davit with a higher capacity launch & recovery system

- **Update**
 - Initiative
- **Procurement Strategy**
 - Competitive
 - Up to 30 ships' boats systems



Naval Large Tug

To provide sufficient large tug capacity to Queen's Harbour Masters in HMC Dockyards to support naval operations over the next 25 years

- **Update**
 - Project in Options Analysis
- **Procurement Strategy**
 - Competitive
 - Migrate afloat harbour fire protection into tugs
 - 6 tugs (3 ea coast)



Naval Improved Clothing & Equipment (NICE)

Acquire a modern, holistic, skin-to-outer operational clothing ensemble for all geographical, environmental conditions for naval operations, at sea and ashore

- **Update**

- Omnibus Proj since 2005
- Delivered: rain/wind gear; cold/wet weather gloves; hot weather boots; sea boots; ballistic eyewear, undergarments
- Pending: Fragmentation Vest, Temperate weather glove, jacket liner

- **Procurement Strategy**

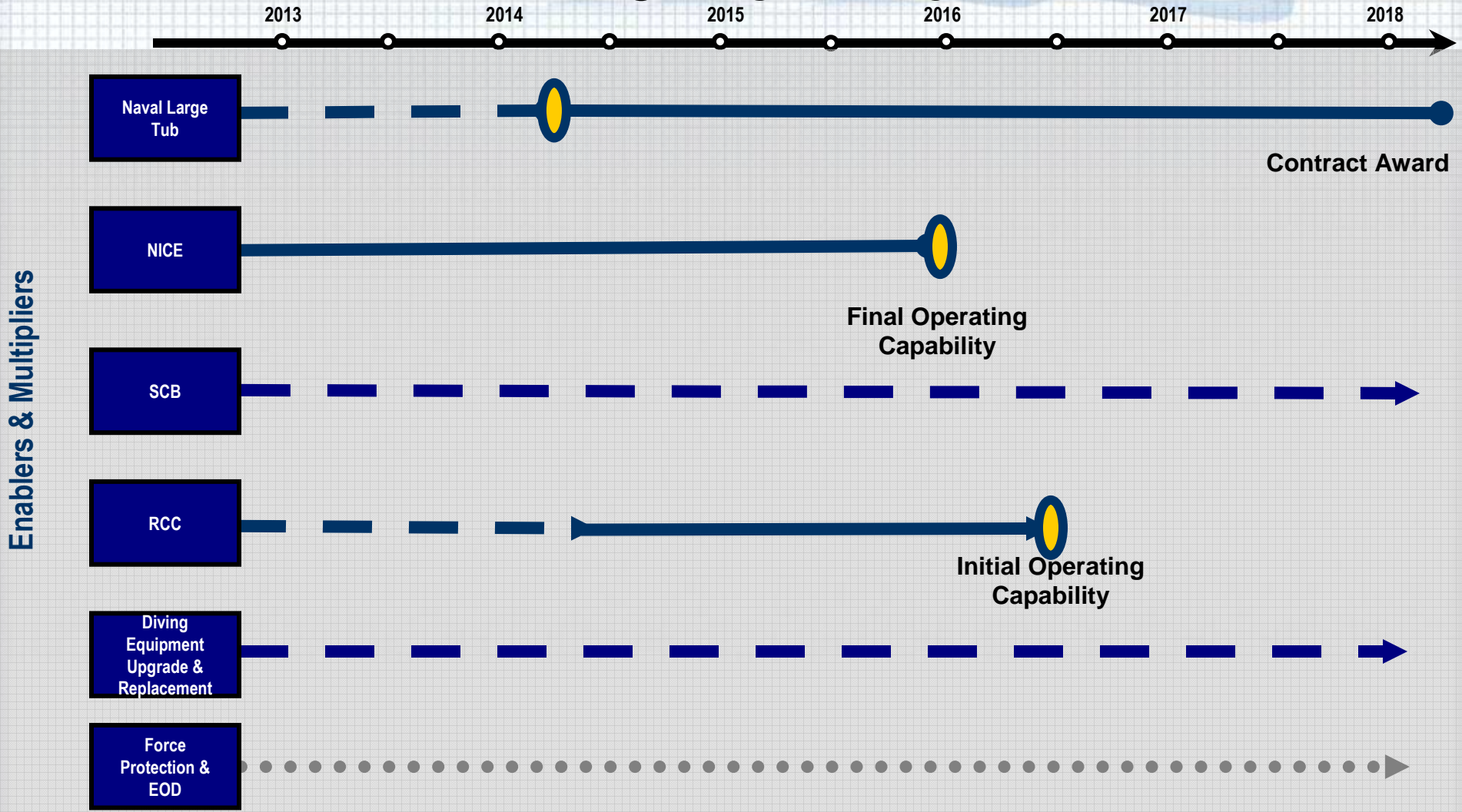
- Competitive

- **Key Milestones**

- FOC 2016



DNR 3 Work Plan



Enablers & Multipliers

'Asks' of Industry

- **Are there opportunities for collaboration?**
 - Deep Seabed Intervention to 200m
 - Lifting Equipment systems
 - Equipment management relationship e.g. AUVs
- **Is industry focus on modular, platform independent payloads vs. platform specific capabilities?**
- **Noting we all benefit from fastest possible capability delivery, based on your appreciation, how can we work better to work-up requirements as quickly as possible?**

RCN-Industry Dialogue Period



Auxiliaries and Ancillary Requirements

- **Aging auxiliary fleet**
 - Crane Barge and Dive Tenders 1960s era
 - Naval tugs and Fire Boats require replacement
- **Increasing capability requirements as well as more stringent industry standards**
- **Maintenance and technical obsolescence**
 - Specifically with larger ROVs, diving and diving support equipment
- **Competition for recapitalization resources**