



Canadian
Coast Guard

Garde côtière
canadienne



CCG Science Program Update



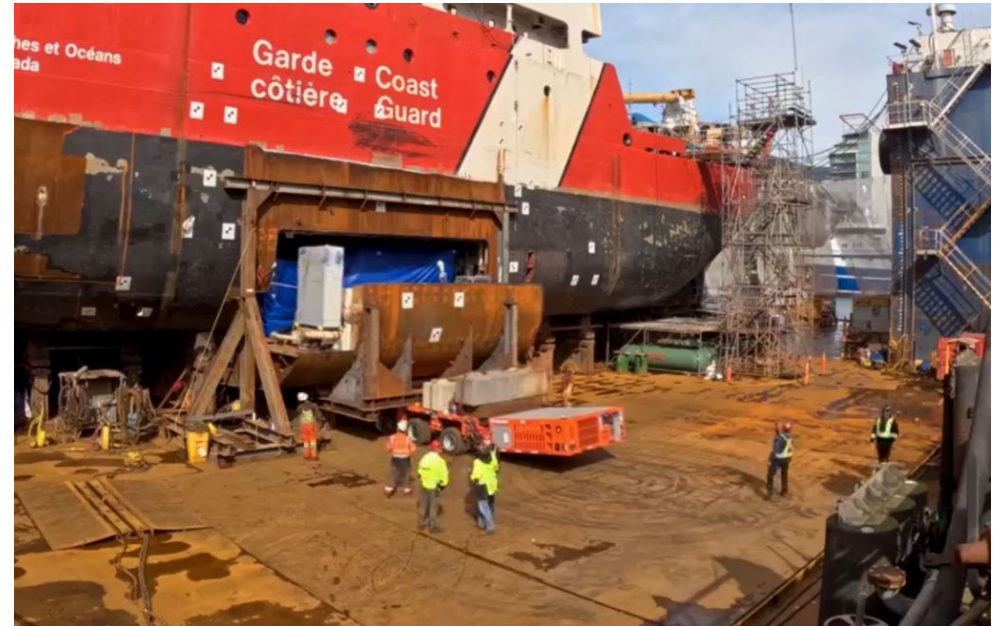
DFO Science at Sea

- DFO Science At Sea Program has commitments of approx. 3000 sea days nationwide
- Days are divided over approx. 225 missions yearly
- CCG provides 19 science dedicated vessels nationally
- Missions consist of:
 - Oceanography
 - Stock Assessment
 - Marine Geoscience
 - Ocean Mapping
 - Cetacean Monitoring



Continued Challenges

- New Vessel Builds – Taking longer to complete than planned
- VLE's and Refits
 - Limited drydock facilities in Canada for large vessels
 - Being extended due to unexpected work (i.e., asbestos remediation, Lead Paint, Availability of Replacement Parts, etc.)
- Crewing – Recruitment and Retention



New Vessel Builds

- Have taken significantly longer than originally planned
 - Some efficiencies have been found but timelines are still long
- Means existing vessels required to stay in service past end of life
- Older vessels mean more issues (obsolete parts), breakdowns and costs



New Vessel Build – Updates Offshore Oceanographic Science Vessel

- OOSV named CCGS Naalak Nappaaluk
- Named after a respected Inuit Elder committed to protecting Inuit language and culture
- Vessel launched – 17 Aug 2024
- Currently being outfitted
- Expected Delivery – Jun 2025



New Vessel Build – Update Polar Icebreakers

- Plan to build 2 PC-2 Icebreakers
- One at Seaspan in Vancouver and one at Davie in Quebec
- Seaspan (VSY) Polar Steel Cut Apr 2025
 - Delivery 2030 (planned)
 - Named CCGS Imnaryuaq
- Davie Polar awarded Mar 2025
 - Uses Polar Max Design – Part of Helsinki Shipyard Merger
 - Delivery 2030 (planned)
 - Named CCGS Arpatuuq

Comparison to Polar VSY

Arpatuuq



~138m LOA
~9.5m Draught
~29.4m Beam
~21,250 MT

Polar VSY



~158m LOA
~10.5m Draught
~28 Beam
~26,000 MT



New Vessel Build – Near Shore Fisheries Research Vessel

- Build Contract Awarded in Oct 2023 to Chantier Naval Forillon in Quebec
- Estimated Delivery 2027
- Built with diesel electric hybrid power with a Battery Energy Storage System
- Area of Operation – Gulf of St Lawrence and Seaway

Existing Vessel
CCGS Leim

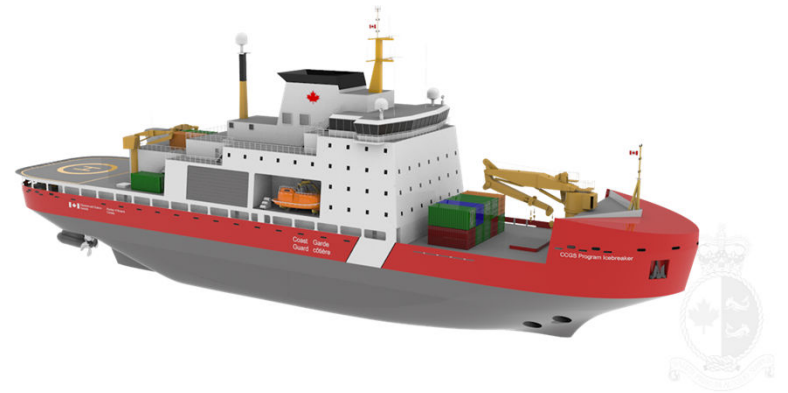


New Vessel
Design



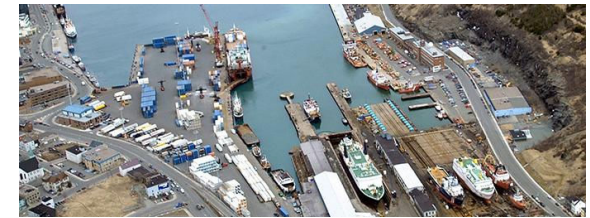
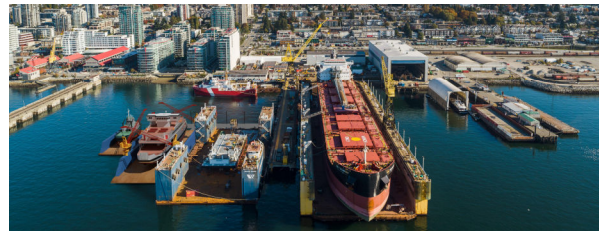
New Vessel Build – Multi Purpose Vessels (MPV's) and Program Ice breakers (PIB's)

- MPV's
 - Up to 16 Vessels – 2 Flights
 - Est. First Vessel Delivery 2030
 - Built at Seaspan
 - Will use modularity solution for non primary missions (Science)
- PIB's
 - 6 Vessels
 - Est. First Vessel Delivery 2032
 - Built at Davie
 - Will use modularity solution for non primary missions (Science)



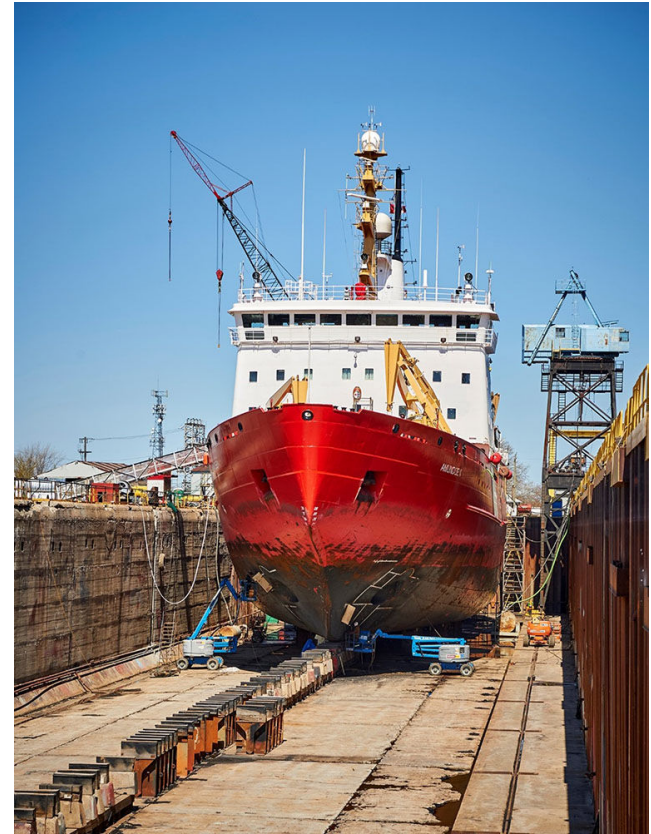
Vessel Maintenance

- Largest Issue is shipyard availability in Canada
- 5 Large yards to do work on existing large fleet
 - St. John's, NL
 - Quebec City, QC
 - Hamilton, On
 - Vancouver, BC
 - Les Mechins, QC
- Demand outweighs supply
- Challenges to keep assets working



Vessel Maintenance Continued

- Refit delay – Increased costs
- Larger scope of work due to age of vessel
- Still dealing with supply issues
 - Supply Chain – Covid
 - Tariff concerns
- Restricted to Canadian yards
- Yards over subscribed
 - CCG is not the only customer
- Less focus on vessel as refit nears end
 - Yards tend to move workforce to new projects before finish



Crewing Issues

- Still dealing with crewing issues across the fleet
 - Cooks and Engineers are biggest issues
- Have been able to maintain most missions on schedule
- There have been some lost missions due to not meeting safe manning
- Work has begun on recruitment and retention



Thank you



Questions



Canada 