

Norwegian Icegoing Research Vessel

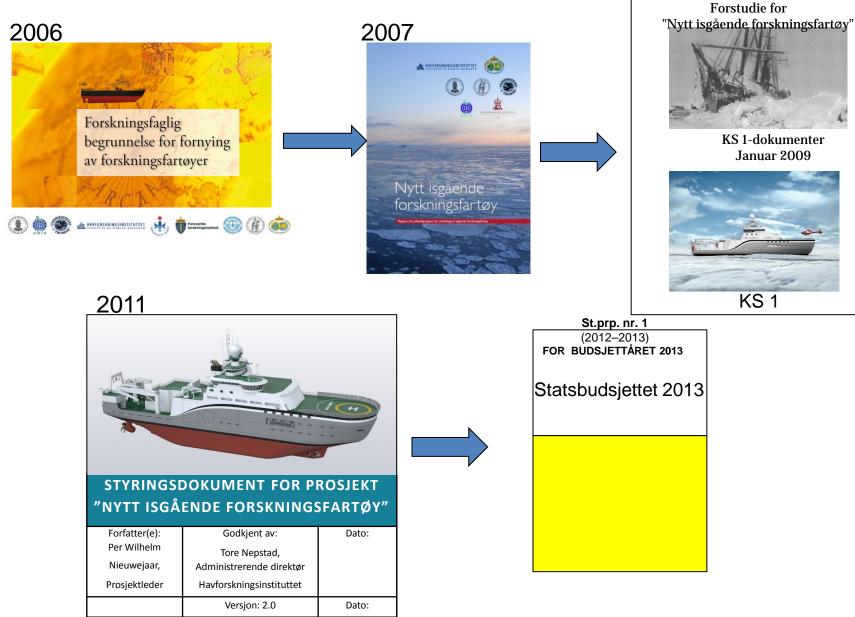
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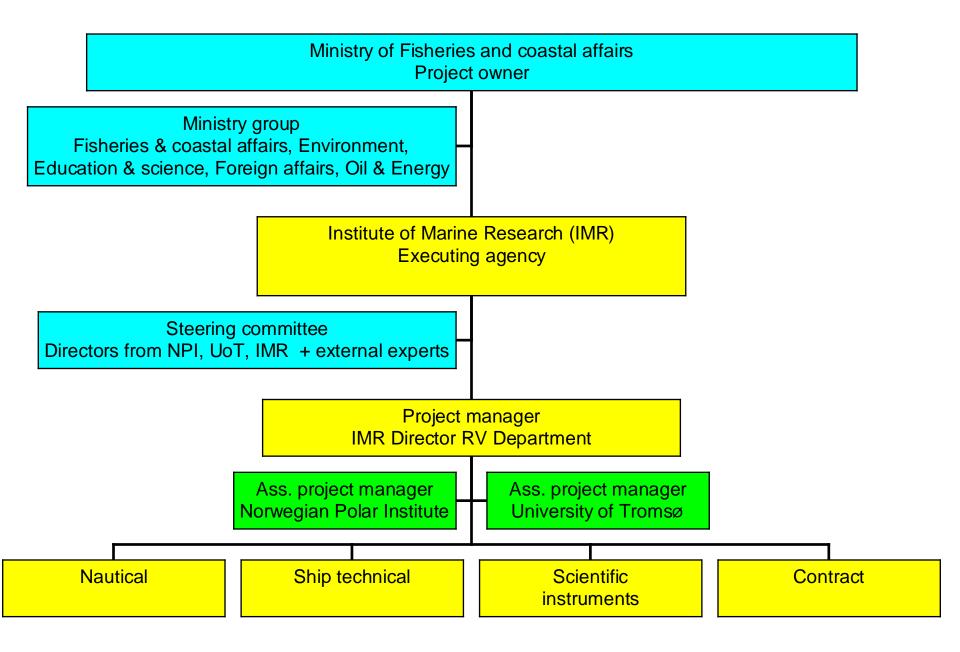
ERVO 2013, Brest, France 5-6 June 2013

Background

2009



Organization



Technical details

- Length over all (LOA): 100,0m
 Breadth: 21,0m
 Draft approx. 8,0m
 Gross tonnage approx. 9000GT
- Machinery Diesel/electric (A/C) 10MW thruster effect
- Two azimuth thrusters (Z-drives) aft
- Two tunnel thrusters forward
- Accommodation for 55 persons in 38 cabins (15 crew and 40 scientists & technicians)
- Helicopter capacity for two small helicopters
- Emergency towing and fire fighting of other vessels
- Diving facilities & mobile pressure chamber
- Loading capacity: 22 x 20 'containers
- DNV-Class: PC-3 Icebreaker
- Maximum cruising range approx. 15.000nm = Tromsø-Antarctica and back
- Endurance 65 days



Icegoing capabilities

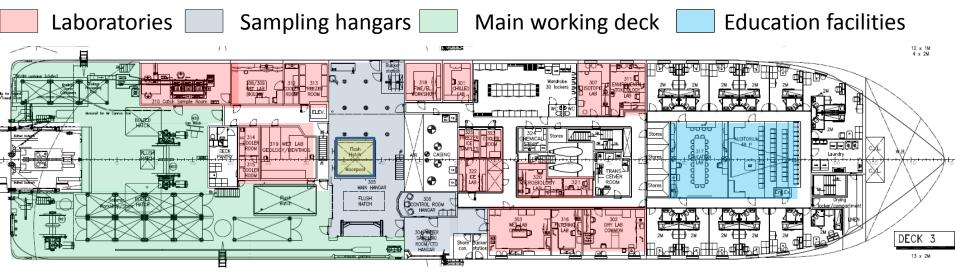
- PC-3 ICEBREAKER =
- Year-round operation in second-year ice which may include multi-year ice inclusions
- Continuous ship speed when breaking 1,0m ice thickness: Approx. 5 knots
- Continuous ship speed when breaking 0,4m ice thickness: Approx. 11 knots
- Hull structure, appendages and cranes to operate down to at least -35°C
- With moonpool/hangar and helicopter hangar:
- The Vessel may operate & sample year round everywhere in Antarctic seas
- The Vessel may operate & sample year round in the Arctic marginal ice zone
- The Vessel must navigate in leads when old, thick ice is present. With sufficient time allocated, the Vessel may operate well into the Arctic Ocean, even in winter.



Scientific functions

Arranged and equipped with state of the art scientific instrumentation for:

- Oceanography, Marine Biology, Fisheries research
- Geology, Geophysics, Chemistry, Physics
- Demersal and Pelagic trawling (Open water and in ice)
- Bottom piston coring and grabbing
- ROV and AUV operations
- Seismic operations
- Launch and recovery of buoys, landers, observatories and moorings
- Launch and recovery of different kinds of towed vehicles
- Student training







Yard contract

- 6 shipyards prequalified
- Bids to be delivered on 6 June 2013
- Yard selected on 5 September 2013
- Bids expected from 5 yards:
 - Bergen Yards, Norway
 - Damen, Romania
 - Fincantieri, Italy
 - Freire, Spain
 - Shanghai Shipyard, China

Questions?