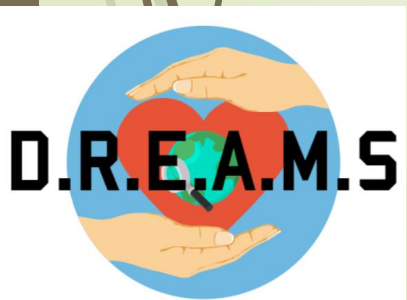


Direct
Rapid-Response
Emergency
Action
Multi-Platform
Savoir-System



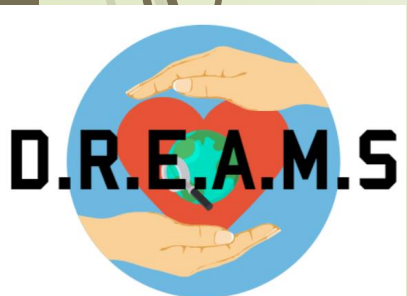
Scope

- Introduction
- CONOPS
 - Location
 - Deployment
 - RIB
 - Rescue
 - Recovery/Return
 - Mothership
- System Life Cycle
- Questions



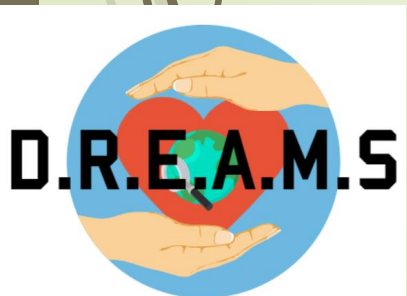
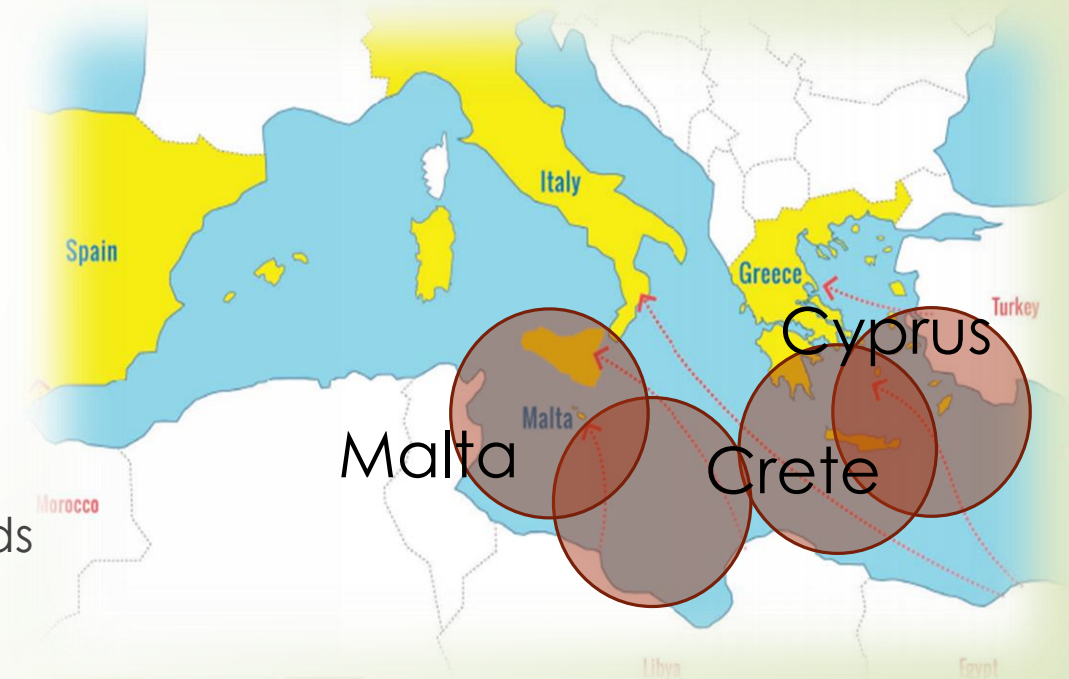
CONOPS - Location

- Importance of Locating Personnel in Distress
 - Vessels carrying migrants aim to avoid detection.
- Radar
 - 10.25 nm search range in good conditions.
- Drone
 - Over the horizon searching ability –
 - Imagery and video surveillance.
 - Increase sea area that can be searched.
 - Reduce operating costs of the mothership.



CONOPS - Deployment

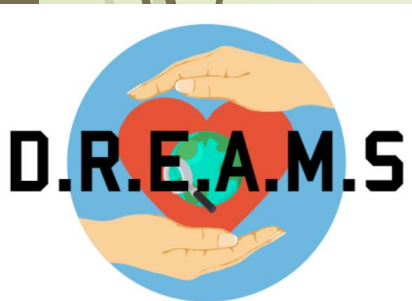
- Deployment of the RIB from the Mothership
 - The RIB will be stored in the life raft bay on a telescopic cradle to be lowered into the water along the stern ramp then collapsed.
- 2 Deployment Scenarios:
 - Incident less than 200nm
 - Incident greater than 200nm
- Potential Alternative Deployment Methods
 - Air Deployment (Hercules Aircraft)
 - Multiple RIBs located around the Mediterranean,
 - Autonomously controlled RIB.



Fast Response Rescue RIB

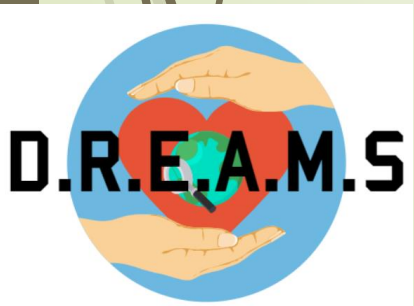
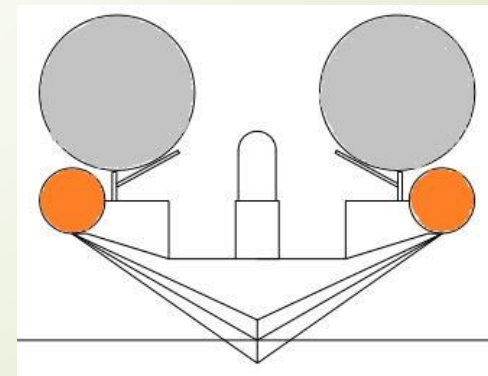
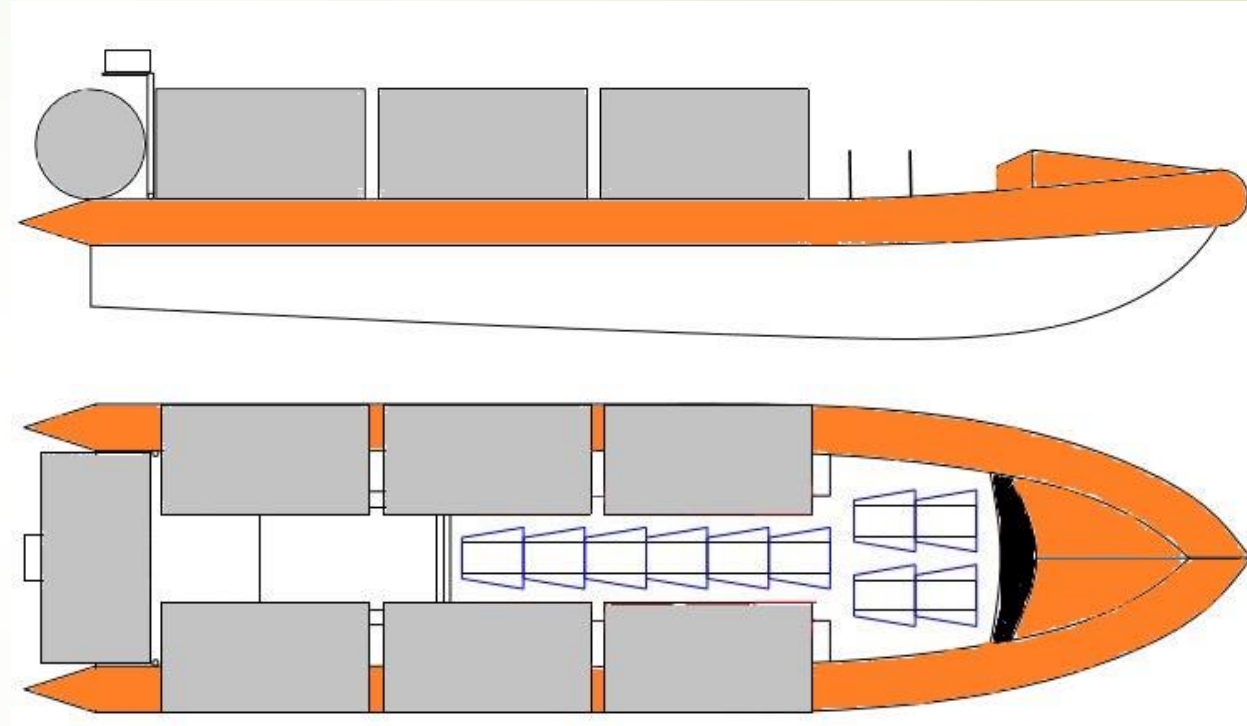
- ▶ An 18% margin has been applied to the VCG and 29% margin to the weight.
- ▶ 25% fuel margin applied and compensating tanks fitted to correct trim as fuel is used.
- ▶ Self righting mechanism is included on the A frame.

FAST RESPONSE RIB	
Length Overall [m]	12
Beam [m]	3
Maximum Vertical Extent [m]	2.5
Draught [m]	0.75
Crew	10
150 man Life rafts	7
Installed Power [HP]	580
Speed (full payload) [knots]	30
Displacement [Tonnes]	11.3
Range [nm]	200



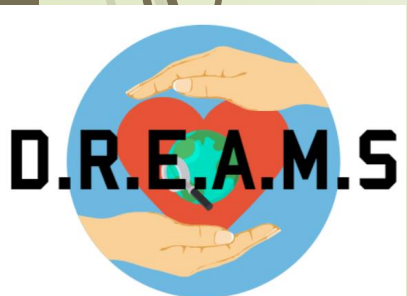
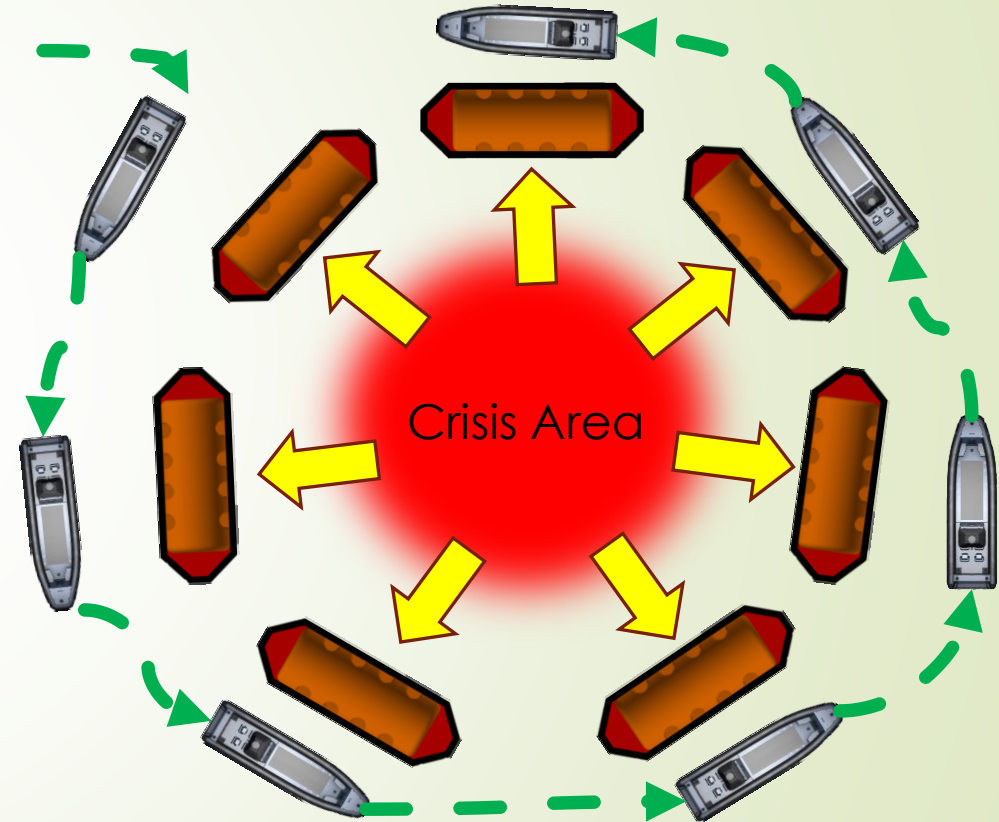
Fast Response Rescue RIB

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CONOPS - Rescue

- Scenario A
 - All personnel on boat – STABLE
- Scenario B
 - Some personnel in water
 - Some personnel on boat - UNSTABLE
- Scenario C
 - All personnel in water - SUNK



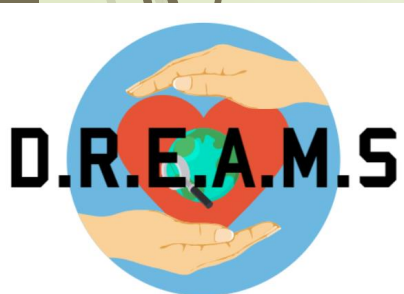
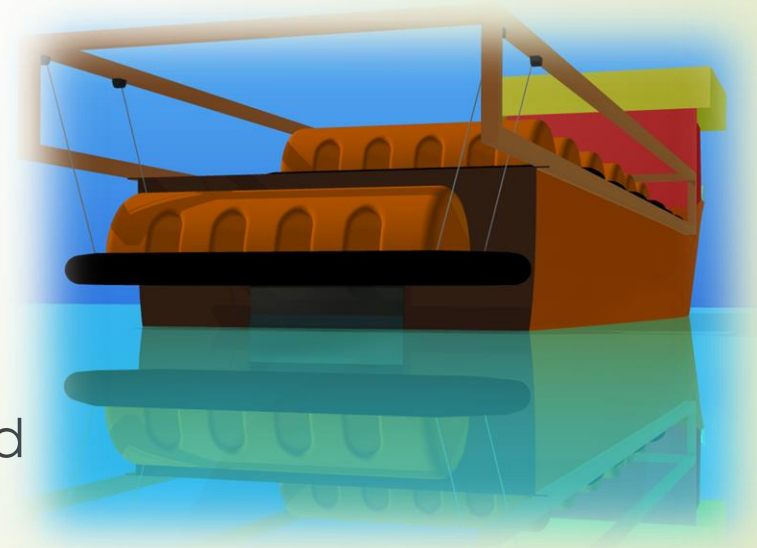
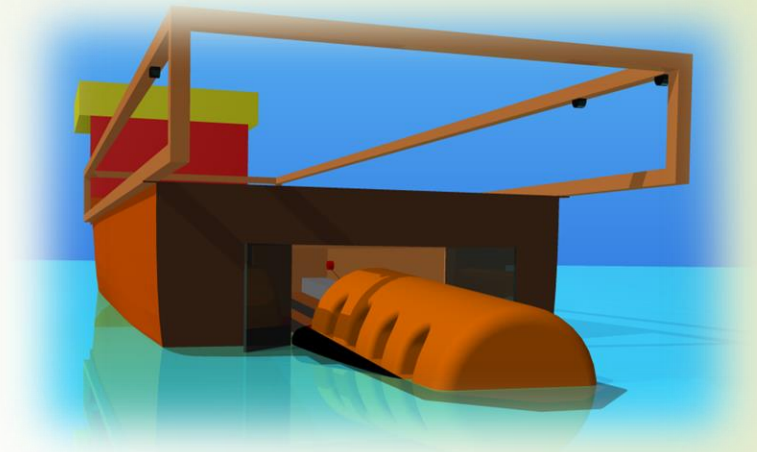
CONOPS – Recovery

➤ Personnel Recovery

- Wet Dock
- 2 Mini RIB's Deployed
- Winch into recovery bay
- Conveyor belt floor system

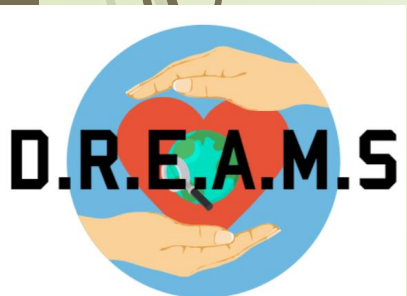
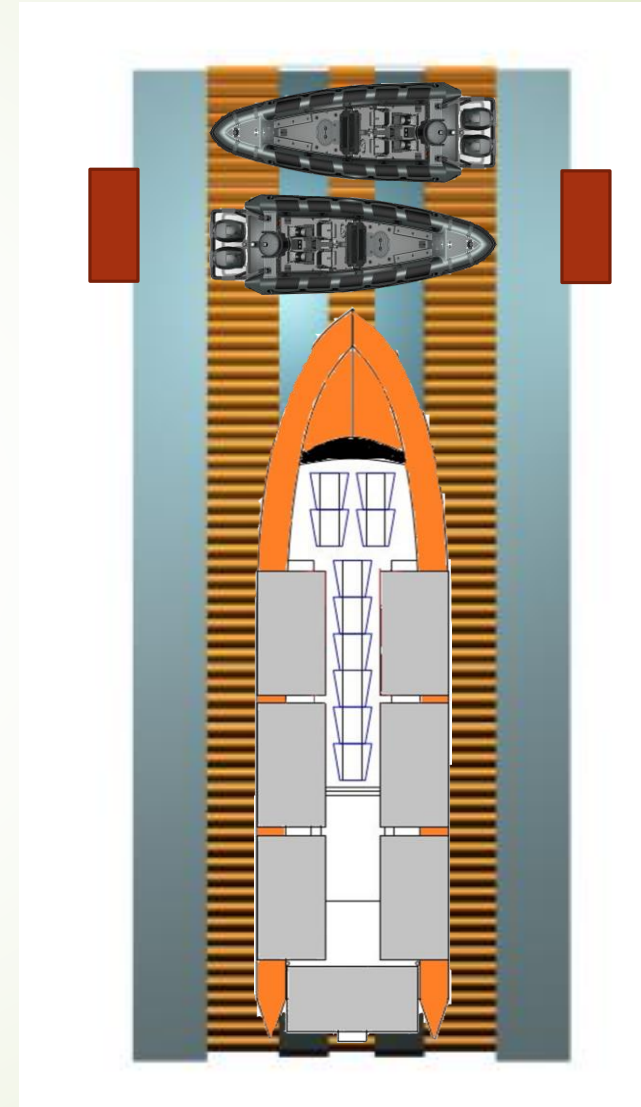
➤ Life Raft recovery

- Overhead deck crane to recover life raft
- All 7 life raft recoverable onto boat deck
- 150 man life rafts are serviced and repacked

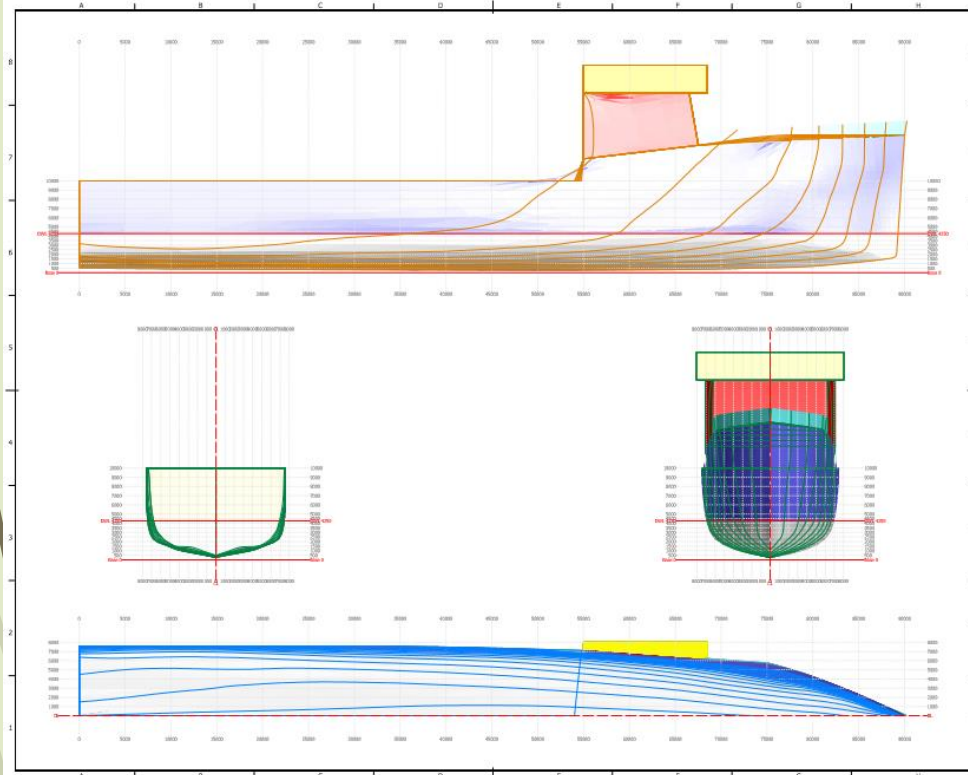


CONOPS - Recovery

- Recovery Bay 20m x 8.8m x 4.5m
- 2 x 5m Support RIBs loaded at the rear
- 12m Fast Response Rescue RIB loaded using telescopic cradle
- 2 x 2 tonne winches



Mothership ship - PARTICULARS



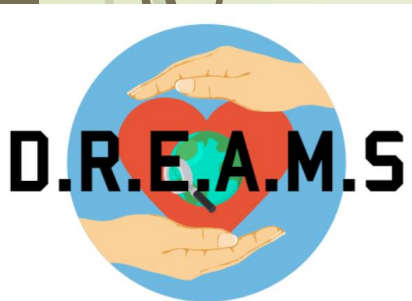
LOA	90m	Propulsion	2 x medium speed diesels (driving electric propulsion) 7,250kW each
Beam	16.5m		2 x electric azimuth thrusters
Draft	4.25m	Range	5000nm
Displacement	2,500-3000te	Endurance	30 days (96 hours with 1000 survivors)
Max Speed	20 knots	Crew	25 + 10 medical staff

Electric propulsion provides the option to travel at speed or operate large amounts of machinery as will be required when conducting rescue operations.

Casualty removal by helicopter can be achieved from foc'sle in reasonable sea states.

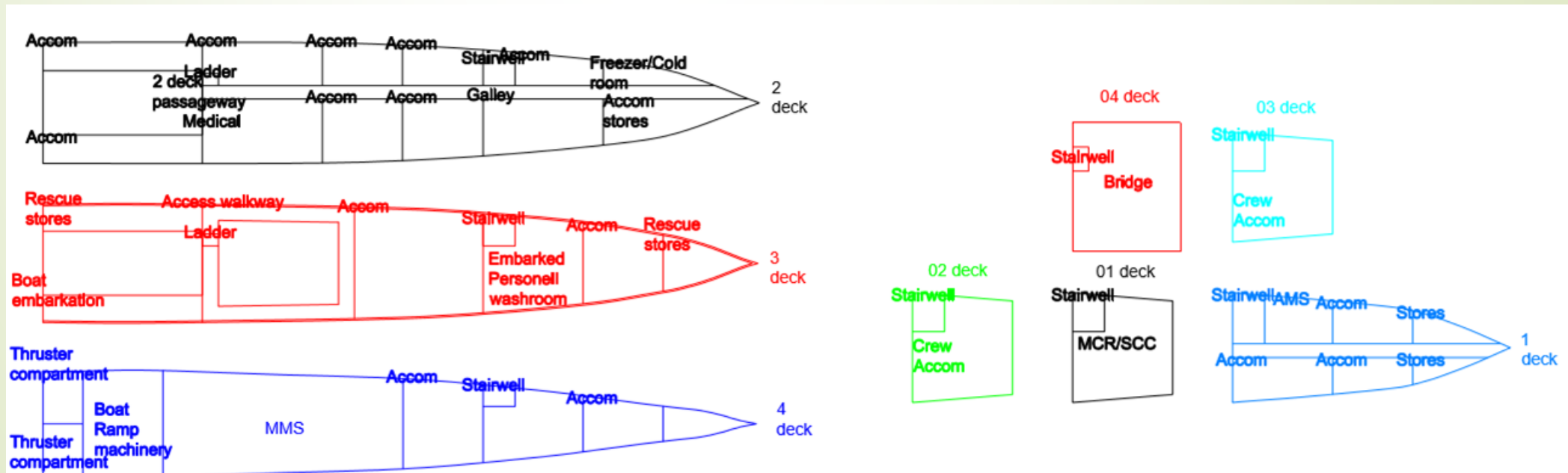
Build cost of an order of magnitude less than equivalent displacement warship.

Option to use ship as auxiliary troop carrier gives more attractive pricing to governments.



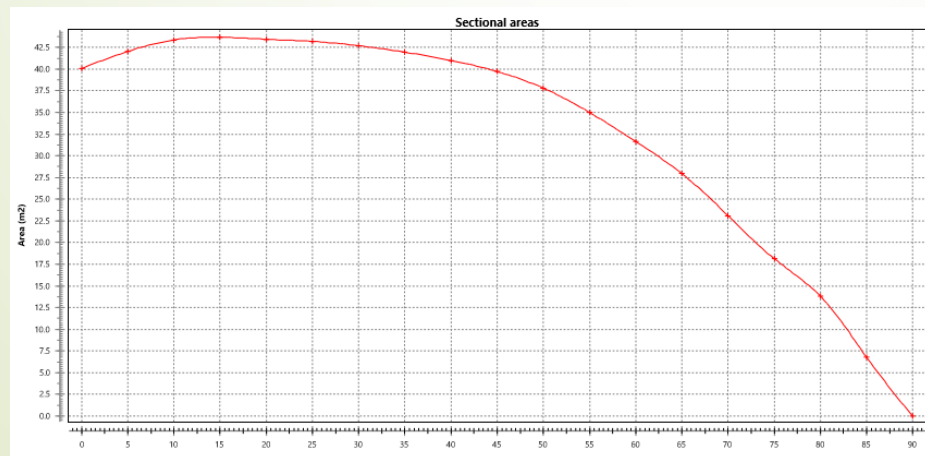
General Arrangement

- 3000m³ of accommodation for survivors
- Crew accommodation contained within superstructure
- Enclosed walkways around MMS
- Large medical facility
- Recovery facility held inside watertight aft compartment
- More than one rescue operation during a single deployment
- Additional above deck life rafts (200% of crew and compliment)



Hydrostatics & Hydrodynamics

Weight Steel	1345te	C_B	0.46
Weight Outfit	583te	C_p	0.83
Weight machinery	567te	MS Section	39.7m ²
Mission Systems	375te	KM	7.89m
Survivors	80te	GM	1.7m
Total	2950te	KG	6.19m
Required installed power for 18 knots	10.44MW (with 30% margin)	Installed power (including electrical requirements)	14.5MW

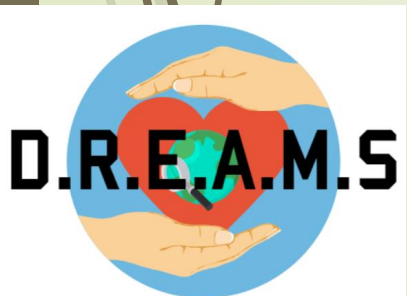


- Sectional area held aft to support mission systems



System Life Cycle

- Build
 - Proven Technologies
 - NOT a warship
 - Does not dock down
- Maintenance
 - Regular docking periods
 - In class
 - Electric motors, require less servicing to diesel engines
- Durability/Disposal
 - Similar to existing ships
 - Repurposed life rafts



The logo features a blue circular background with two hands, one above and one below, cupping a red heart. Inside the heart is a small globe of the Earth. The text "D.R.E.A.M.S." is written in bold, black, sans-serif capital letters across the center of the heart and globe.

D.R.E.A.M.S

A solid red arrow pointing to the right, positioned to the left of the text.

Any Questions?