



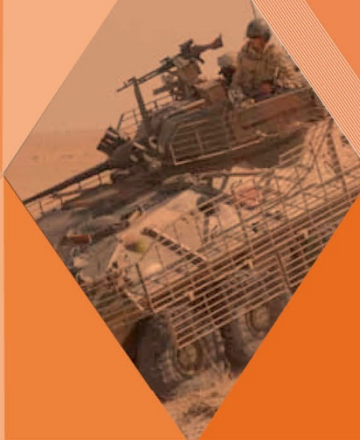
Australian Government
Department of Defence

Australia's Future Frigate Program (SEA 5000)

CDRE Rob Elliott CSC, RAN

Director General Maritime Development

Capability
Development
Group



Background

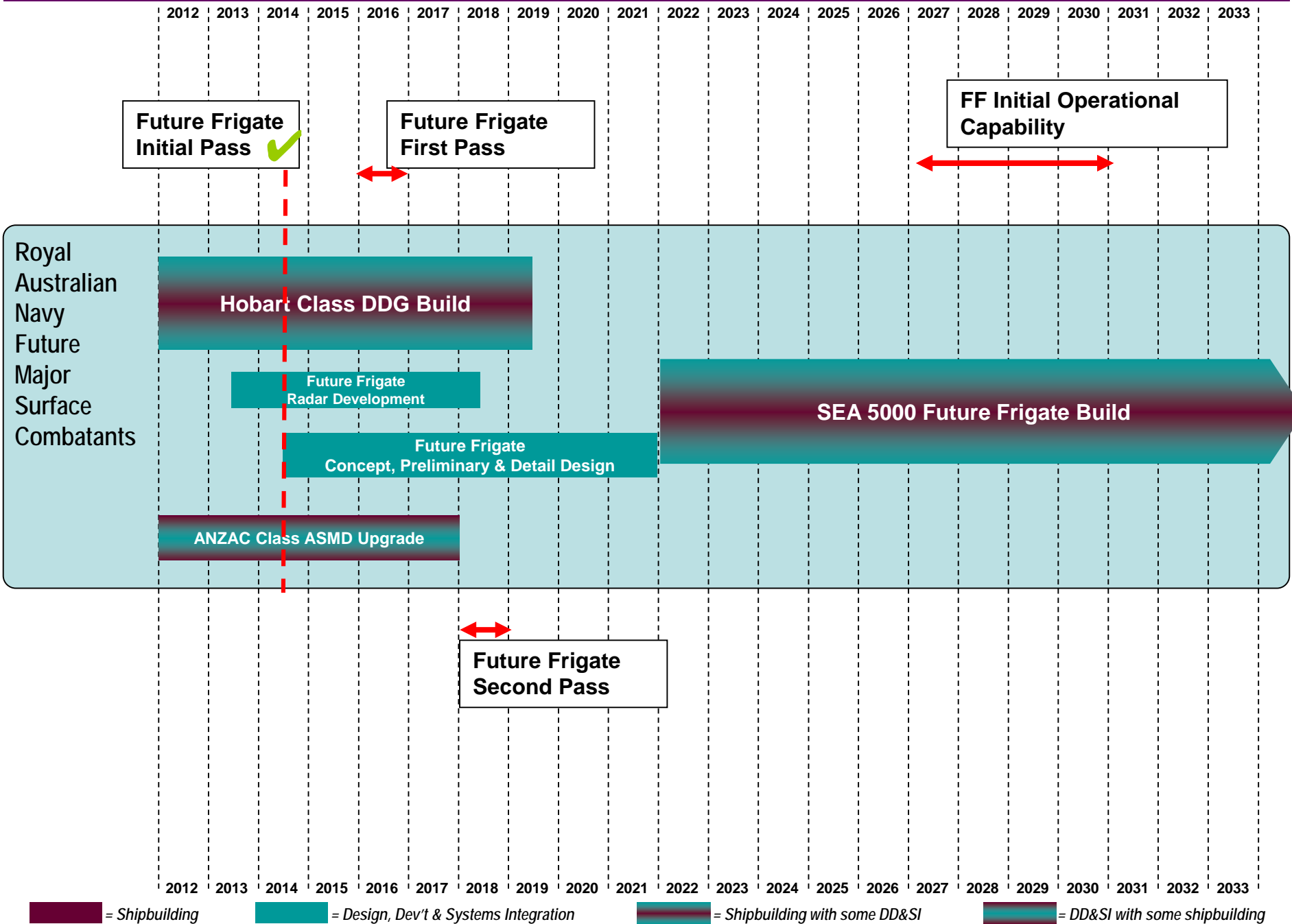
- Defence White Paper 2009.
- Not just an ANZAC 'Replacement'.
- ASW reinvigoration.
- Defence White Paper 2013 WP15.
- Major Surface Combatants.



SEA5000-1 Status

- Project Initiation.
- Top Level Requirements.
- Government Agreement on **Initial** Pass.
- The Journey to Government Decisions.

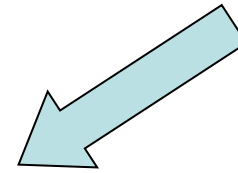
AUSTRALIA'S SURFACE COMBATANT BUILDING PROGRAM ... 2033+



Acquisition Strategy

- MOTS
- Australianised MOTS
- New Design **X**

*Investigate &
Return to
advise.*



Top Level Requirements

- Eight Ships (?).
- Capable of low level constabulary OPS to high-end war-fighting.
- Strong Focus on ASW (includes Force Level).
- Helicopter and UAV capability.
- Task Group/Force, Air Defence.
- Stand Off Maritime Strike.
- Complementary to Hobart Class DDG.

Top Level Requirements

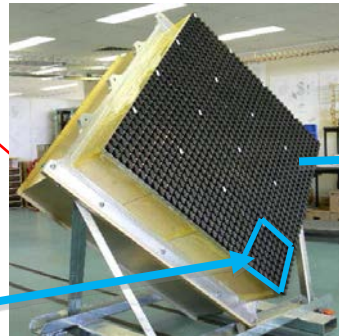
- Use of Modular Mission Payloads.
- Commonality of systems with existing RAN Fleet.
- Consideration of the CEAFAAR-S/X/L Radar Suite.
- Consideration of SAAB 9LV CS and Aegis Fire Control Loop.
- Efficient propulsion system to reduce cost of ownership.
- High levels of onboard simulation for training.
- Personnel neutral from ANZAC Class if possible.

CEA Active Phased Array Radar

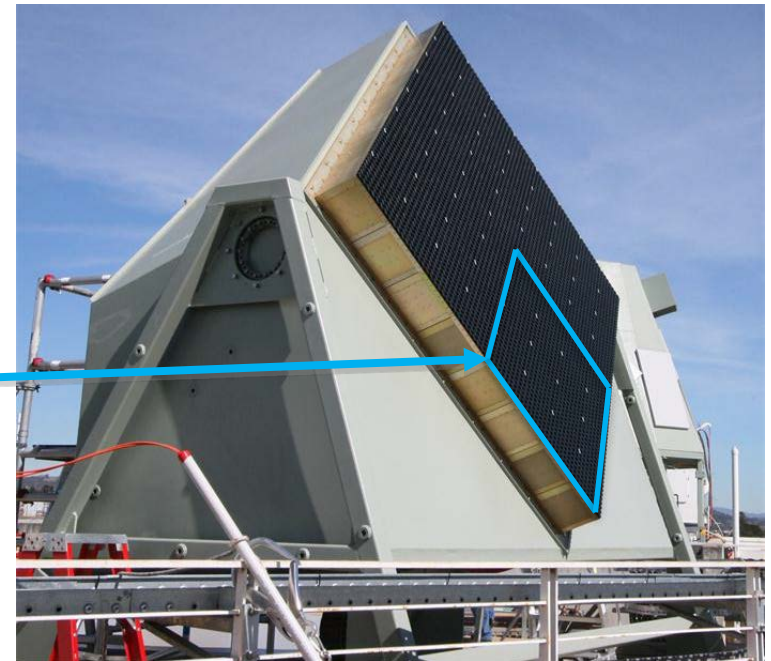
- Leveraging off ANZAC Class (CEAFAR1) ASMD upgrade.
- Transitioning to GaN technology in the CEAFAR2 suite of S/X and L Bands.
- Scalable, lower-cost and multi-use arrays.
- L, S & X-band tiles are in the process of been developed.



Self-Defence Face
4x4 tiles



Microwave
Tile (8 x Element)



Air Defence Face
8x8 tiles