



# NDIA Expeditionary Warfare Conference JP2048 Update CANBERRA Class Amphibious Assault Ships CDRE Simon Cullen RAN



# Current RAN Amphibious Capability

2 LPAs (ex USN Newport Class LST)



LSH & LCHs



LSH – HMAS TOBRUK



# Landing Force Concepts

- **Amphibious Ready Group (ARG)**
  - Based on an Army Combined Arms Battle Group
- **Amphibious Ready Element (ARE)**
  - Short Notice contingency based on a Company Group level for Humanitarian Aid , Disaster Relief and Non-combatant Evacuation Operations





# JP2048/ADAS Program

Phase 4A/B – LHD - ISD 2014



Phase 3 – LHD Ship to Shore Connector – LCM1E– ISD 2014



Phase 4C – Amphibious Support Ship

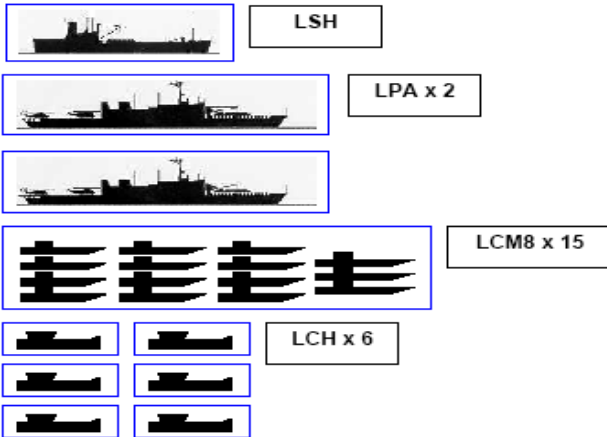


Phase 5 – LCH Replacement



# Capability Growth

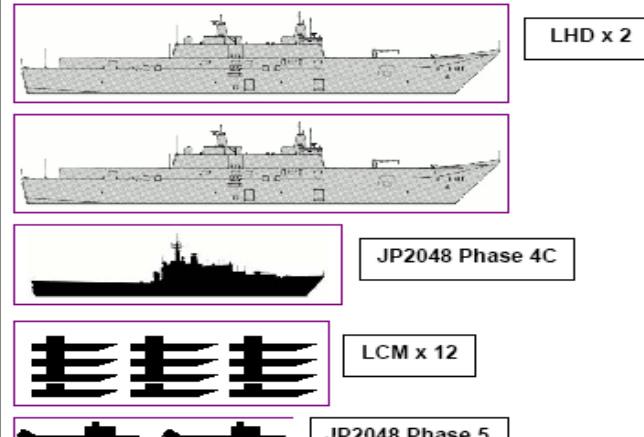
## CURRENT AMPHIBIOUS CAPABILITY



TONNAGE	
LPA x 2	= 16900 T
LSH x 1	= 5700 T
LCH x 6	= 3018 T
LCM 8 x 15	= 1500 T
<b>Total</b>	<b>= 27,118 T</b>
Embarked Force	= 1115
Lane Metres	= 788m
Comms Circuits	= 17
Helicopters	= 8
Hangared	
Hospital (level 3)	= Each LPA has - 1 op theatre, limited ICU and x-ray
Sea State Limitations	Sea State 2

**TOTAL Manpower**  
**625 Navy**  
**100 Army**

## FUTURE AMPHIBIOUS CAPABILITY



TONNAGE	
LHD x 2	= 54000 T
Phase 4C x 1	= 16000
Phase 5 x 6	= 7800 T
LCM x 12	= 1500 T
<b>Total</b>	<b>= 79,300 T</b>
Embarked Force	= 2600
Lane Metres	= 2800m
Comms Circuits	= 58
Helicopters	= 16 Hangared 8-12 deck parked
Hospital (level 3)	= Each LHD has - 2 op theatres, 8 ICU and 20+ MDU beds, x-ray etc
Operations	up to and including Sea State 4

**TOTAL Manpower**  
**805 Navy**  
**207 Army**  
**6 RAAF**

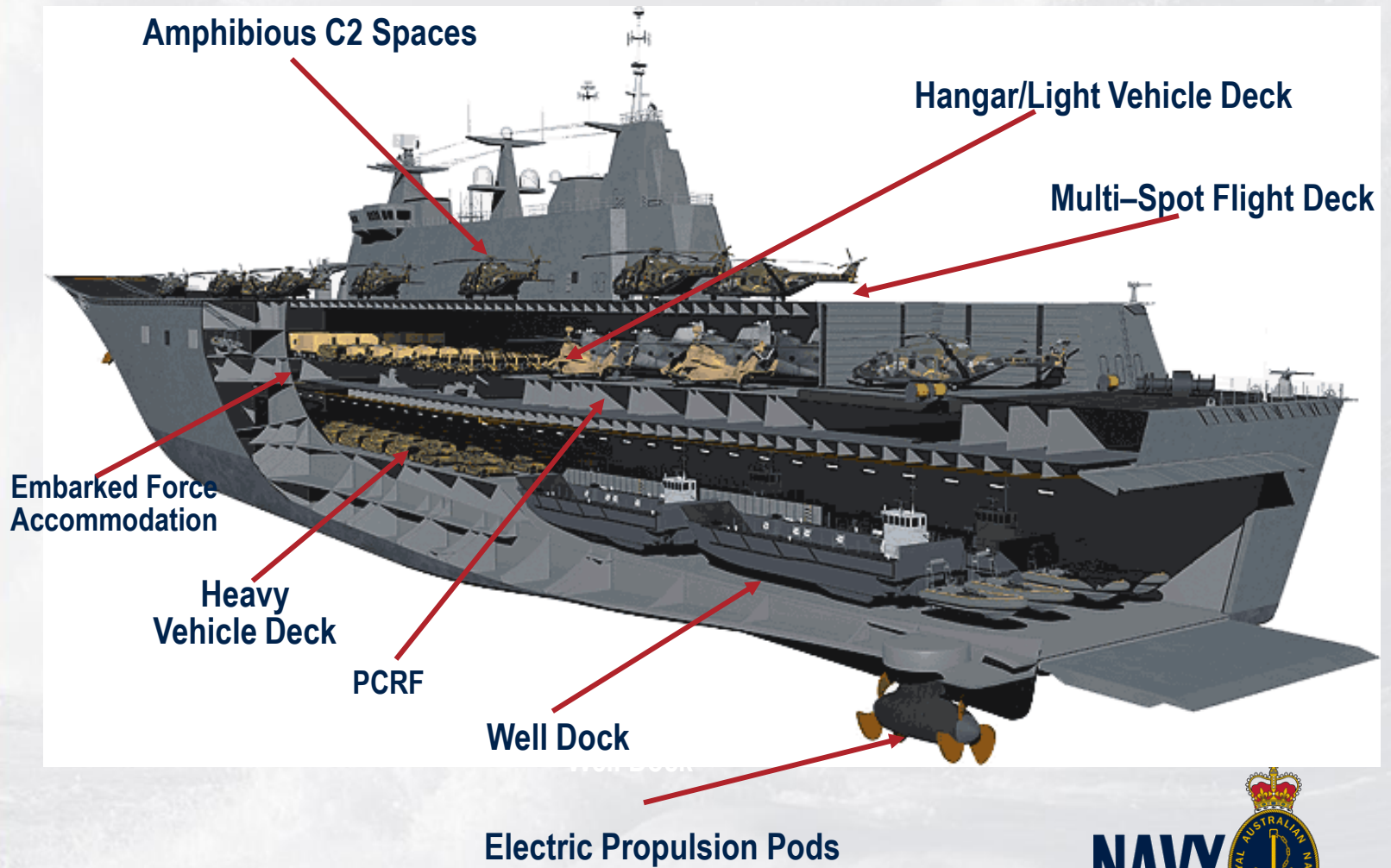
# LHD Delivery Timeline

Event	Dates
LHD #1 Launch	April 2011
LHD #1 Arrival in Australia (Williamstown)	July 2012
LHD #2 Launch	October 2012
LHD #1 Harbour Acceptance Trials	August 2013
LHD #1 Sea Acceptance Trials	November 2013
LHD #2 Arrival in Australia (Williamstown)	February 2014
LHD #1 Initial Operational Release	March 2014
LHD #1 Initial Operating Capability	December 2014
LHD #2 Harbour Acceptance Trials completion	March 2015
LHD #2 Sea Acceptance Trials completion	June 2015
LHD #2 Initial Operational Release	October 2015
LHD #2 Initial Operating Capability	June 2016
ADAS Full Operating Capability	October 2017





# CANBERRA Class Capabilities



# Challenges & Opportunities

- **Force generation**
  - Ongoing operations
  - Single service training
  - Collective training
- **Landing Force - Cross leveling the Army or specialist organisation**
- **Force capabilities – ARE & ARG**
- **Understanding the cost**
  - COMAUSATG – 8 personnel (5 Navy, 3 Army)
  - HQJAAF – 66 Personnel (no offsets yet identified)
  - Readiness and Preparedness
- **Personnel**
  - Minimum manning concept
  - Building new skills – AVN Category, HV Propulsion, Well Dock/Landing Craft



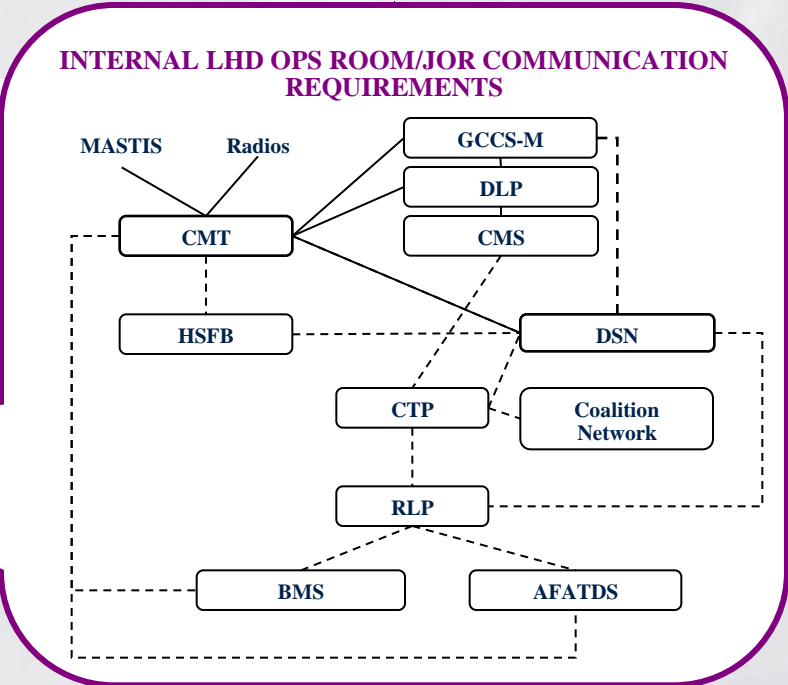
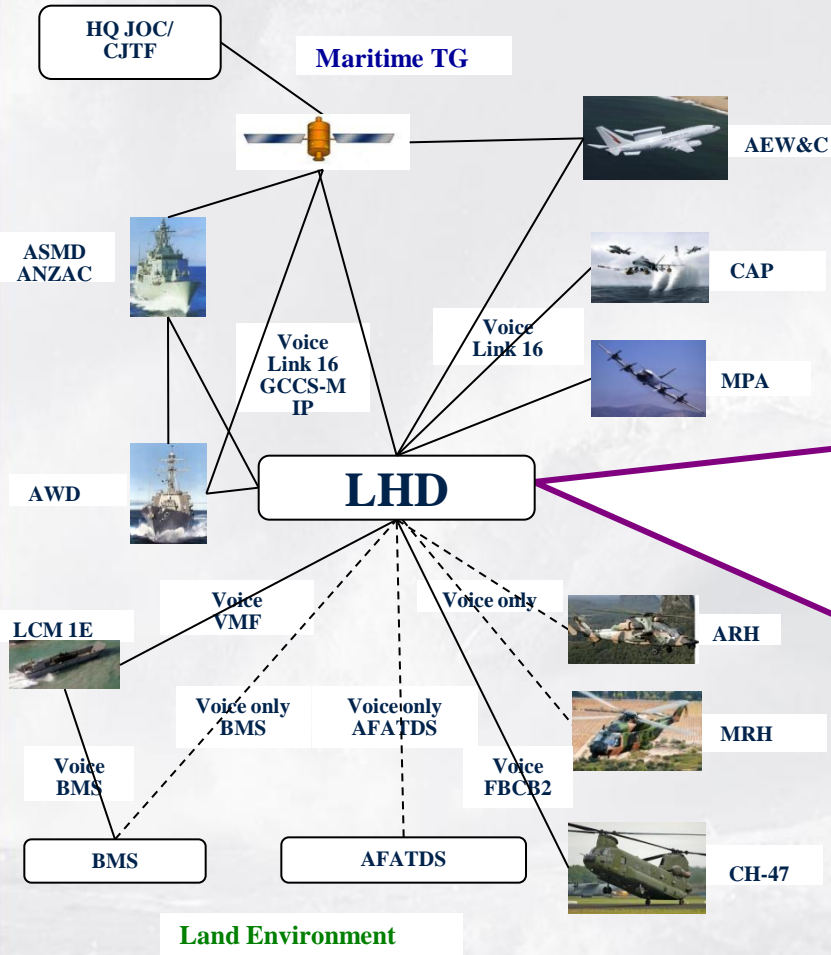


# Challenges & Opportunities

- **Support System**
  - Building an affordable Support System
- **Fleet Renewal 2014-2017**
  - AWD, LHD, FFH ASMD and FNACS arriving in same period
- **Hardened Networked Army**
- **System integration – Communications/Data Links**



# Amphibious/LHD C4I Network Existing and Required Links



**LEGEND**  
Existing Links ———  
Required Links - - - - -



# US/ADF Amphibious Engagement

- **Engagement through EWWG and CRSG**
  - Forward Work Plan
  - Future level of interoperability
- **EX ANCHOR SUN**
- **EWTGPAC San Diego**
  - International Senior Officer Amphibious Planning Course (ISOAPC). RAN has had 2 students on this course.
- **Amphibious Warfare Indoctrination (AWI)**
  - We have placed 4-5 students on the last two iterations of AWI and are panelling for the Apr 11 students.
- **Expeditionary Warfare Staff Planning (EWSP)**
  - Run in conjunction with the AWI. As per comments above, this is a two week package and we are continuing to exploit.





# US/ADF Amphibious Engagement

- **US NAVY - Athens Georgia - Introduction to Expeditionary Logistics**
  - One Navy and one Army logistician in Apr 10.
- **USMC - Quantico - Expeditionary Warfare School - Distance Education Program**
  - We have 6 Army students enrolled for the course commences in Oct 10.
- **Possible future requests**
  - EWTGPAC - Joint Fires Primer
  - NAB Coronado - Experiential interaction with ACU-1 Landing Craft Command to gain LC competencies and dock operations experience.
  - Short secondments and sea riding for those areas where ADF currently has not resident expertise; dock operations, multi-spot flight deck operations.





