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**
- **LSH**
- **LPA x 2**
- **LCM x 15**
- **LCH x 6**

**TONNAGE**
- LPA x 2 = 16900 T
- LSH x 1 = 5700 T
- LCH x 6 = 3018 T
- LCM 8 x 15 = 1800 T
- **Total** = 27,118 T

**TOTAL Manpower**
- Embarked Force = 4415
- Lane Metres = 788m
- Comms Circuits = 17
- Helicopters = 8
- Hanged
- Hospital (level 3) = Each LPA has - 1 op theatre, limited ICU and x-ray
- Sea State Limitations Sea State 2

**Future Amphibious Capability**
- **LHD x 2**
- **JP2048 Phase 4C**
- **LCM x 12**

**TONNAGE**
- LHD x 2 = 54000 T
- Phase 4C x 1 = 16000
- Phase 5 x 6 = 7800 T
- LCM x 12 = 1800 T
- **Total** = 79,300 T

**TOTAL Manpower**
- Embarked Force = 3800
- Lane Metres = 2800m
- Comms Circuits = 58
- Helicopters = 16 Hangared
- Hospital (level 3) = Each LHD has - 2 op theatres, 8 ICU and 20+ MEU beds, x-ray etc
- Operations up to and including Sea State 4

**625 Navy**
- 100 Army
- 207 Army
- 6 RAAF

**NAVY**
## LHD Delivery Timeline

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
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<tbody>
<tr>
<td>LHD #1 Launch</td>
<td>April 2011</td>
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<tr>
<td>LHD #1 Arrival in Australia (Williamstown)</td>
<td>July 2012</td>
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<tr>
<td>LHD #2 Launch</td>
<td>October 2012</td>
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<tr>
<td>LHD #1 Harbour Acceptance Trials</td>
<td>August 2013</td>
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<td>LHD #1 Sea Acceptance Trials</td>
<td>November 2013</td>
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<tr>
<td>LHD #2 Arrival in Australia (Williamstown)</td>
<td>February 2014</td>
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<tr>
<td>LHD #1 Initial Operational Release</td>
<td>March 2014</td>
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<tr>
<td>LHD #1 Initial Operating Capability</td>
<td>December 2014</td>
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<tr>
<td>LHD #2 Harbour Acceptance Trials completion</td>
<td>March 2015</td>
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<tr>
<td>LHD #2 Sea Acceptance Trials completion</td>
<td>June 2015</td>
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<tr>
<td>LHD #2 Initial Operational Release</td>
<td>October 2015</td>
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<tr>
<td>LHD #2 Initial Operating Capability</td>
<td>June 2016</td>
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<tr>
<td>ADAS Full Operating Capability</td>
<td>October 2017</td>
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CANBERRA Class Capabilities

- Amphibious C2 Spaces
- Embarked Force Accommodation
- Heavy Vehicle Deck
- PCRF
- Well Dock
- Hangar/Light Vehicle Deck
- Multi-Spot Flight Deck
- Electric Propulsion Pods
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

LHD

Maritime TG

Voice only

HMQ JOC/ CJTF

ASMD ANZAC

LCM 1E

AWD

VMF

BMS

AFATDS

Land Environment

INTERNAL LHD OPS ROOM/JOR COMMUNICATION REQUIREMENTS

MASTIS

Radios

MASTIS

Radios

DCS-M

DLP

CMS

HSFB

CTP

Coalition Network

RLP

BMS

AFATDS

CH-47

BMS

AFATDS

CH-47

Land Environment

LEGEND

Existing Links

Required Links
US/ADF Amphibious Engagement

- Engagement through EWWG and CRSG
  - Forward Work Plan
  - Future level of interoperability

- EX ANCHOR SUN

- EWGPAC 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.
Questions