



DEFENCE WEEK

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Budget 2014 – Good news for Defence

Nigel Pittaway | Canberra

From a Defence point of view, the Abbott Government's first budget since gaining office is 'encouraging' according to Australian Strategic Policy Institute Analyst Mark Thomson.

"It's as good as it gets in the current climate," he said.

The Government said it will provide \$29.2 billion in the 2014-15 financial year and \$122.7 billion over the four-year Forward Estimates period. Defence Minister, **Senator David Johnston** claims this to be a \$9.6 billion increase on the figure provided by the previous government.

The 2014-15 figures represent 1.8 percent of GDP, against the Government's pledge to restore Defence spending to two percent by 2023-24.

"Against the backdrop of a difficult budget, the Government will lay down a deliverable and sustainable path to our target following the **2015 Defence White Paper** and associated reviews which will determine the capabilities we need to ensure Australia's national security in coming decades," Senator Johnston said.

To fund current operations, \$436.8 million is being spent in the coming financial year (\$669.4 million across Forward Estimates), which includes funding for the **G20 leaders summit** in Brisbane in November and the ongoing search for **Malaysian Airlines MH370**.



In addition, \$1.5 billion has been brought forward from 2017-18, including an increase of \$500 million in 2013-14, and a further \$1 billion distributed across Forward Estimates. Senator Johnston also said that \$520million will be deferred from 2017-18 to 2019-20 and 2020-21 to 'provide Defence with an achievable growth path'.

The Minister also says he has identified \$1.2 billion in back-office savings over the Forward Estimates which will be reinvested into Defence capability, but it is not clear from budget documents how these savings will be made .

The Defence portfolio budget statement forecasts several major projects in the current DCP may achieve First Pass Approval in the 2014/15 financial year, including: Jindalee Operational Radar Network (Air 2025 Phase 6); Joint Counter IED Capability (Land 154 Phase 2); Cavalry Reconnaissance Vehicle System (ASLAV replacement – Land 400 Phase 2); Submarine Escape Rescue and Abandonment Systems (Sea 1354 Phase 1) and Anzac frigate Air Search Radar Replacement (Sea 1448 Phase 4B).

In addition the projects which may achieve Second Pass in the same period include:

- Air 5349/ 3 (EA-18G Airborne Electronic Enabling Capabilities)
- Air 5431/1 (Deployable Defence Air Traffic Management & Control System)
- Air 5431/2 (Fixed Base Defence ATM & CS)
- Air 5431/ 3 (Fixed Base ATM)
- JP2008/5B.1 (Military Satellite Capability – Wideband Terrestrial Infrastructure)
- JP2068/2B.2 (Computer Network Defence)
- JP5048/3 (ADF Navigation Warfare Capability)
- JP9000/7 (Helicopter Aircrew Training System)
- Land 19/7A (Counter Rocket Artillery & Mortar/Missile) – NPOC only
- Land 136/1 (Land Force Mortar Replacement)
- Land 2072/2B (Battlespace Communications System – Land)
- Land 2089/3B (Tactical Information Exchange Domain [data links], Armed Reconnaissance Helicopter.

Also announced in the budget was funding for the **ADF Gap Year** and new indexation of the **Defence Forces Retirement Benefits (DFRB)** and **Defence Force Retirement and Death Benefits (DRRB)** superannuation schemes, and launched a new scheme, called '**ADF Super**'.

The new scheme will come into effect on July 1 2016 for new ADF members. Existing **Military Superannuation and Benefits Scheme (MSBS)** members will have the choice of moving into the new scheme or remaining in the existing plan.

"The new arrangements will allow ADF members to choose which superannuation fund they belong to and, for the first time, give those members the ability to transfer their accumulated benefits to a new fund if they leave the ADF," Minister Johnston said.

An in-depth analysis of the 2014-15 Defence Budget, including comment from Government and industry will be featured in the June issue of *ADM*.





Building defence capability

In his Defence budget statement this week, Defence Minister Senator David Johnston noted that the Government had already approved the acquisition of key capabilities that will support the ADF for decades to come, including F-35 Joint Strike Fighters, P-8A Maritime Patrol Aircraft and MQ-4C Triton Unmanned Aerial Vehicles.

"The 2015 Defence White Paper will be accompanied by a fully-funded, 10-year Defence Capability Plan that will ensure the Australian Defence Force has the equipment it needs in future decades and provide greater certainty for Australian defence industry.

"Defence will continue to implement all of the accepted recommendations from the Coles Review to ensure that the Navy maintains an effective submarine

capability until the introduction of the **Future Submarine**.

"Around 2000 Australian Defence Force (ADF) personnel are currently deployed on operations and domestically in support of civil authorities protecting Australia's borders.

For more information and access to the Portfolio Budget Statement go to <http://www.defence.gov.au/budget/14-15/pbs/>

OUT NOW! ADM May 2014

- Armed UAV for the ADF?
- DSTO MAV research takes flight
- Offensive cyber warfare
- ACSC to become one stop shop
- The emergence of 'cyber labs'
- Raydon Gates chief executive of Lockheed Martin Australia and New Zealand speaks to ADM
- and much more!



Call
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Beware disaffected employees!

Tom Muir

Data security company Vormetric, a leader in data security for physical, virtual and cloud environments, this week announced the results from its first Australian Insider Threat Report.

Conducted in conjunction with **Ovum**, the report reveals 91 per cent of Australian organisations did not feel safe from insider threats, such as when employees or contractors use legitimate access credentials to exfiltrate data, and when these user accounts are compromised by advanced attacks.

The report, which surveyed 183 senior IT professionals and business managers, predominantly from mid- to large-enterprise organisations, also revealed:

- Almost half (48 per cent) are planning to increase spending to offset insider threats, and the same percentage also found that insider threats are more difficult to detect than just two years ago
- Regulatory compliance is the key driver for organisations to spend more on insider threat protection (37 per cent)
- Cloud computing concerns were high, and centred around lack of visibility into service provider security stances (68 per cent) and the potential for third party access to data (64 per cent)
- Concern about insider threats among Australian IT professionals is less than half their US peers, but was equivalent to that of their European peers

Damian Harvey, Vormetric A/NZ country manager, said that while organisations are beginning to realise some of the most damaging breaches can originate from within the company, full awareness of the severity and frequency of data theft is still in its infancy.

"This report clearly shows that awareness of data breaches is rising. However, we are not there yet. We are still seeing organisations spend millions on perimeter defences, while neglecting to lock up their data or appropriately control access," Harvey said.

"If a disaffected employee decides to steal IP or customer data for their own gain, it can be almost impossible to find out until it's too late without the proper security controls – **Edward Snowden** is living proof of this. When it comes to data security, understanding and controlling access is the best safeguard for sensitive data."

REGISTER NOW!

ADM Northern Australia Defence Summit

15-16 October 2014 | Darwin

Bringing together key figures from the NT Government, senior military figures, and senior industry representatives, this conference is all about the continuing development and support of Defence in the Top End.



Land 400 decision said to be close

Tom Muir

According to Grant Turnbull writing in Army-Technology.com, the Australian government is close to making a decision on its ambitious Land 400 project which

aims to replace much of the Land Force's existing armoured vehicle fleet. With resulting contracts worth as much as AUD10 billion, it is the Australian Army's most expensive and most complex equipment acquisition program to date.

The Australian Department of Defence has called Land 400 one of its 'most significant capability programs' in terms of acquisition costs and impact on the Army's fighting capability. Its aim is to replace the Army's ageing fleet of **M113, ASLAV** and **Bushmaster PMV vehicles** with over 1,000 highly capable new armoured vehicles.

Yet despite the massive investment and a decision that could influence the Australian Army's role in future conflicts, the project has received little attention outside Australia except in defence circles. Other recent high-profile projects like the **F-35 Joint Strike Fighter** and replacing the **Collins-Class submarines** have garnered much more scrutiny, despite the fact that the Australian government is planning to spend the same on Land 400 as it is on the F-35 and new submarines.

The stakes are particularly high for Australia's domestic motor industry, which could play a crucial role in the manufacture of the new vehicles. The announcement in February that **Toyota** would be joining **Ford** and **General Motors (Holden)** in closing its Australian car production operation effectively ended the country's motor industry. When Toyota finally ends production in 2017, it will be the first time Australia has had no domestic carmaker since 1925.

Geelong, historically the centre of manufacturing in Australia's most densely-populated state, Victoria, will be affected and other areas in neighbouring South Australia will feel the pain from job losses.

For many Australians, the loss of the car industry represents a hollowing-out of traditional manufacturing in Australia. The manufacturing sector now accounts for around 6-7 per cent of total economic output and employment as a whole in Australia is lower than it was during the global financial crisis. It is then no wonder that support among the general public for domestic manufacturing is "extremely strong", according to industry sources.

With unemployment rising and the threat of recession now looming over areas like Geelong, there is a concerted effort to revive a flagging commercial manufacturing sector with defence projects like Land 400. This would work along similar lines to the Techport naval shipbuilding precinct in South Australia. One group leading the charge to keep Land 400 production in Australia is the **Geelong Region Alliance (G21)**, representing a number of government, business and community organisations in the area.

"The diverse skills, high technology components and manufacturing innovation required for Land 400 make it the perfect fit for Geelong and Victoria, consolidating our transformation into a global, high technology, design, engineering and manufacturing city," the G21 website explains. - *TM/GT*





ASC's hopes for Korean shipbuilding project

Tom Muir

Australian Submarine Corporation is working on a plan with South Korea to design and build two or three Aegir 18As, 180m long warships with hospitals, self-defence systems, flight decks and hangars.

ASC general manager of Strategy **Sean Costello** says they were pitching for the project to build the auxiliary ships that will

work with the AWDs, and that would help them retain work and skills. They have partnered with Korean company **DSME**, one of the world's largest shipbuilding companies.

"We're planning for the period of time when the AWD program completes and before the commencement of the Future Submarines," Costello said.

"We've got a gap. Some people refer to that as the Valley of Death. Our plan to get across the **Valley of Death** is to build auxiliary ships in Australia. To demonstrate how we could do that, we've proposed working with a South Korean company to use a design that is in production elsewhere in the world, and we'd build those in Australia.

"From ASC's point of view, if we build two auxiliary ships in Australia, we can bridge the Valley of Death so long as those next programs aren't delayed."

The 26,000-tonne Aegir 18As would replace HMAS *Westralia* and HMAS *Success* to support the AWDs with healthcare as well as water and fresh and dry food.

Costello said they were hoping to begin the process to replace the existing ships within the next year, but that it depended on the new Government, which is working on a **Defence White Paper**. "We're focused on competing for the opportunity ... we consider this essential to continue building our capabilities and prepare the company for the Future Frigates and Future Submarines program," he said.

ASC was earmarked for possible privatisation in the recent **Commission of Audit report**, and while there is no great resistance to the idea from industry, experts are questioning why it would be sold now, with no major projects firmly in the pipeline. The report said ASC's recent financial returns were "poor" — a claim ASC rejects — and hinted that ASC might not end up getting the \$40 billion Future Submarines project.

The state's Defence industry association says the Aegir 18A would help. "It is a very viable option," **Defence Teaming Centre** chief executive officer **Chris Burns** said, but warned that ASC had competition from other organisations. "The good thing with ASC is it would be done in SA (and) it would maintain the bulk of the workforce," he said.

"The issue around the support ships is a lot of people had a lot of hope that the Future Submarines and Future Frigates would be announced by now so the Valley of Death is growing so they're trying to push the support ships forward to bridge it. - *TMI Perth Now*



Forgacs wins Landing Craft contract

Tom Muir

Newcastle firm **Forgacs** has signed a contract with the Defence Materiel Organisation to build a 30-metre landing craft as a gift to Tonga from the Australian government. The project will provide work for a team of about 30 **Forgacs** specialists until the end of March next year.

Forgacs chief executive **Lindsay Stratton** yesterday declined to reveal the exact worth of the contract but said it was valued in the millions of dollars. "By comparison to what we're used to doing, it's quite a small vessel, but it's quite important for Forgacs, from a strategic perspective," he said. "This is the first bit of good news that we've had for a while."

Stratton said this week's news had boosted staff morale.

"We've got 900 people in our shipbuilding division, so keeping 30 people employed is only a small step along the way," he said.

"But, nonetheless, it's an important motivator for our people, and again shows Forgacs' commitment to maintaining our strong presence in the shipbuilding industry for Australia. And in some way, I think it shows a similar intent on behalf of the government, so we're very appreciative of that."

Stratton said the company hoped to compete in an expected NSW government tender process this year for six Sydney ferries. "There's half a dozen vessels there and, of course, we're keenly waiting for any news regarding the possibility of any future naval shipbuilding," he said.

ADM Comment: Forgacs is a first class shipbuilder and engineer and no doubt has its eye on building replacements for the **Landing Craft Heavy (LCH)** the last four of which are due for retirement this year. The LCHs have been continuously used since the early 1970s and have provided outstanding service, but they are relatively slow and vulnerable to adverse weather. The new class of landing craft will provide intra-theatre lift to augment the LHDs and the Strategic Sealift amphibious vessel, HMAS *Choules*. The new watercraft will have improved seakeeping characteristics and faster transit speeds than the LCHs they are replacing.

REGISTER NOW!

ADM Cyber Security Summit

19-20 June 2014 | Canberra

This year's speaker faculty will feature presentations from renowned experts from government, industry institutions/agencies, academia and leading vendors. Some of the key topics to be addressed include:

- Cyber warfare
- Mitigating and preventing cyber offensives
- Protecting critical cyber infrastructure
- Intelligence and surveillance
- Cyber terrorism
- International Policy





Northrop Grumman in UAS study with RMIT

Northrop Grumman Corporation is collaborating with the Royal Melbourne Institute of Technology (RMIT) University, to study airworthiness requirements for operating unmanned aircraft systems (UAS) in Australia.

The collaboration involves developing solutions for safely and efficiently operating UAS in all airspace environments with a particular focus on larger systems the size of small commercial jets.

“As a producer of large-scale unmanned aircraft systems, our goal is not only to provide the aircraft, but also to understand fully the Australian government’s needs to certify them for operation,” **Ian Irving**, chief executive for Northrop Grumman Australia said. “We’re extremely excited to work with RMIT University because of their leadership in the development of innovative approaches to civil and military airspace regulatory reform and air vehicle certification.”

Northrop Grumman has 70 years’ experience producing unmanned vehicles and has delivered more than 100,000 unmanned aircraft systems to military customers in the US and around the world.

Reece Clothier, from RMIT’s **Sir Lawrence Wackett Aerospace Research Centre**, said, “Northrop Grumman is a leading provider of high-altitude unmanned aircraft systems that will provide a transformative capability to the ADF. In collaboration with Northrop Grumman and the ADF, we will help establish a plan for bringing this unique capability into service.”

Another HMAS Jervis Bay opportunity for the RAN?

Tom Muir

Tasmanian shipbuilder Incat’s highly impressive 98 metre wave piercer, HSV 2 SWIFT is a vessel that incorporates an impressive array of capabilities including a top speed of 48 knots (88 km/h), a range of 8,350 nautical miles, a gross tonnage of 5,936, a 2130 m2 roll on roll off cargo/mission deck and importantly, it can operate in shallow water. HSV2 SWIFT has conducted helicopter recoveries at 43 knots (80km/h) ship speed and 66 knots (122 km/h) apparent wind speed.

HSV2 SWIFT was the fourth high speed vessel to be long term chartered by the US military and it was the first to be specifically designed and built for a post 9/11 maritime security environment. Notably HSV2 SWIFT is the eleventh vessel to be built on the highly successful and well proven Incat 96-98 metre wave piercing catamaran seaframe.



HSV2 SWIFT was initially acquired to serve as an interim US **Mine Warfare Command and Support Ship (MCS)** with secondary roles within the US Marine Corp (USMC). Later HSV2 SWIFT was chartered to US Military Sealift Command (MSC) for, among other roles, global fleet support and humanitarian partnership missions.

The ship was constructed by the Australian shipbuilder Incat in Hobart, Tasmania, and was leased to the US Navy through **Bollinger/Incat** of Lockport, Louisiana. She was the second catamaran the Navy leased to test new technologies and concepts associated with the Chief of Naval Operations's "Seapower 21" plan. The contract value for the first year was \$21.7 million.

Swift is the fourth Incat-built high-speed wave piercing catamaran to enter military service, following behind HMAS Jervis Bay, US Army Vessel (USAV) Theater Support Vessel Spearhead (TSV-X1) and HSV-X1 Joint Venture. HSV2 SWIFT is now available for sale or charter on a prompt delivery basis.

ADM Online: Weekly Summary

A summary of the latest news and views in the defence industry, locally and overseas. Check out our webpage for daily news updates on the ADM home page and make sure you bookmark/RSS this for a regular visit.

This week, plans were made to save up to 4,000 hours of production on **HMAS Farncomb's** upcoming full cycle docking as a result of a change in the way tiles are removed from the submarine.

BAE Systems completed the manufacture of the 150th F-35 rear fuselage and tail set at its military aircraft factory in Lancashire.

And, ASC is participating in a pilot program, the **Future Submarine Technology Challenge** (known as Subs in Schools), that will give students the opportunity to build their own radio controlled submarine.

International



Spain orders two more Patrol Vessels from Navantia

Spain has awarded Navantia a EUR400 million (USD 558 million) contract to build two more Buque de Acción Marítima (BAM) patrol

vessels for the Spanish Navy, it was announced on 7 May.

The contract is in line with a government plan outlined in February to maintain activity at the state-owned firm's shipyards. The order will be split between Navantia's two surface ship yards at Ferrol and Cadiz.



"This second series of the Buque de Acción Marítima not only means a contract for the Spanish Navy but also ensures the continuity of the programme begun in July 2006," said **Ramón Aguirre**, president of the state-holding company which controls the shipyards.

Despite the drastic cutbacks in Spain's defence budgets in recent years, economic conditions have improved to the point that Spain can go ahead with the Ministry of Industry-financed order, Montoro told parliament. The Spanish Navy has long been calling for more BAM vessels, multi-mission ships which have already been deployed as part of the Somalia international counter-piracy flotilla.

Although the Spanish Navy was to receive 14 BAM vessels, so far the Armada has received four of the 2,490 ton, 93.9 m long vessels.

BAM is a design which Navantia has been offering to several other countries, no doubt including Australia, as it has looked to counterbalance the lack of domestic orders. Industry sources suggest that BAM vessels would be the easiest of the company's ships to sell on to a foreign buyer should a contract materialise during the build period. - *IHS Janes*

Look out JSF – Astra BVR missile for India's Su-30 fleet

India successfully flight-tested its indigenous Astra air-to-air beyond-visual-range (BVR) missile from an Indian Air Force (IAF) Sukhoi Su-30MKI fighter off the Goa coast on 4 May.

The **Defence Research and Development Organisation (DRDO)** said in a statement that the missile test had met all its mission objectives by proving successful separation from the **Su-30**. The test also proved the indigenously developed data link, onboard computer, inertial navigation system, and the fibre-optic gyroscope.

"Astra's successful launch from the Su-30 combat aircraft is a major step in missile aircraft integration," DRDO chief **Avinash Chander** said. "Extensive flight-testing that has preceded today's air launch was indeed a joint effort of DRDO and IAF. This will be followed by a missile launch against an actual target shortly."

The DRDO began developing the Astra missile as an all-weather missile in the same class as the Denel R-Darter, Chinese LY-60/PL-11, and MBDA IRIS-T missiles. It exhibits elements of both the French-built Matra R 530D and the Russian Vympel RVV-AE/R-77 (AA-12 'Adder') designs. Its first developmental test was in May 2003 but a decade of technical problems delayed its development.

The DRDO successfully flight-tested the Astra's avionics integration and seeker from an Su-30 in 2013 and flight-tested its propulsion system, aerodynamic performance, and main frame and flight systems modifications in January 2014. Officials are now confident they can meet the Astra project's revised completion date of December 2016.

The Astra is a single-stage solid-propellant missile that is 3.57 m long and 178 mm in diameter, with a 154 kg launch weight and a 15 kg conventional explosive payload. It has active radar terminal guidance, electronic counter-countermeasures (ECCM), and smokeless propulsion.

The missile has been designed to be capable of engaging high-speed targets at short range (up to 20 km in tail chase mode) and long range (up to 80 km in head-on chase

mode). At sea level it has a range of up to 20 km but could have a range of 44 km from an altitude of 8,000 m and 80 km if launched from an altitude of 15,000 m.

As well as equipping the IAF's Su-30 fleet, the Astra is earmarked to equip India's Dassault Mirage 2000H, Mikoyan MiG-29 'Fulcrum', and the HAL Tejas Light Combat Aircraft (LCA). -IHS Janes



Vector Hawk SUAS features rapidly reconfigurable kits for multiple missions

Designed for versatility and affordability, the new Lockheed Martin Vector Hawk addresses a broad set of unique missions and

operating needs within a single system. With a gross take-off weight of only four pounds and a vertical profile of only four inches, Vector Hawk boasts best-in-class payload capacity, speed and endurance.

Vector Hawk features fully autonomous flight, landing and fail-safes. It is inaudible at operational slant ranges. The data link features a high bandwidth software defined radio, mesh networking (including 3G, 4G, and LTE cellular), over-the-air reconfiguration, and is capable of employing a variety of waveforms. With an open architecture, reconfigurable variants, adaptable data link, and scalable payload, Vector Hawk is engineered for unmatched capability.

Lockheed Martin has five decades of experience in unmanned and robotic systems for air, land and sea. From the depths of the ocean to the rarified air of the stratosphere, Lockheed Martin's unmanned systems help our military, civil and commercial customers accomplish their most difficult challenges.



IAI presents SAHAR

Israel Aerospace Industries (IAI) presents SAHAR – an autonomous robotic route clearance system. SAHAR is a joint development of IAI, QinetiQ North America and Watairpoll.

A model of the system will be presented at the Association for Unmanned Vehicle Systems International (AUVSI) exhibition this



week in Orlando, Florida

SAHAR is a fully autonomous robotic system designed for the efficient performance of combat engineering missions. The system handles the process of route clearance including functions such as environmental terrain mapping, surveillance, removal of road blocks and disposal of IEDs. The system is designed to handle a variety of tasks, missions and threats autonomously.

Combat engineering missions include route clearance, landmines and explosive device (ED) neutralization in diverse operational arenas. These missions are currently executed using manned and remote-controlled mechanical engineering equipment.

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FORTHCOMING EVENTS

For a full list of defence and industry events, head to **ADM's** online events page at www.australiandefence.com.au

ADM Cyber Security Summit

DATE: 19 - 20 June, 2014, Canberra

ENQUIRIES: ADM Events - Adam Wiltshire, Ph: 02 9080 4342;

Email: adam.wiltshire@informa.com.au

Web: www.admevents.com.au

Over the last 2 years, the summit has gathered 150+ senior Defence, National Security and Industry executives to address current and emerging cyber threats to Australia's security.

ADM will
be in
attendance

Defence and Industry (D+I) conference 2014

DATE: 29 - 30 July, 2014, Adelaide

ENQUIRIES: Defence Materiel Organisation

Email: DMO.Communication@defence.gov.au

The Conference is an opportunity for Industry to discuss with Defence officials acquisition and sustainment investment opportunities.

ADM will
be in
attendance

SimTect 2014

DATE: 25 August, 2014, Adelaide

ENQUIRIES: Web: <http://www.simtect.com.au/>

SimTect is the annual Simulation Technology and Training Conference held by Simulation Australia. Since its inception in 1996, SimTect has grown to become Australasia's premier simulation conference for industry, government and academia.

ADM will
be in
attendance

Northern Australia Defence Summit

DATE: 15-16 October 2014, Darwin Convention Centre

ENQUIRIES: ADM Events - Adam Wiltshire, Ph: 02 9080 4342;

Email: adam.wiltshire@informa.com.au

Web: www.admevents.com.au

Bringing together key figures from the NT Government, senior military figures, and senior industry representatives, this conference is all about the continuing development and support of Defence in the Top End. Hear about the current and new initiatives offered by Government and what industry can bring to support Defence's strategic objectives

ADM will
be in
attendance

New Zealand Defence Industry Association Forum (NZDIA Forum)

DATE: 21-22 October 2014, New Zealand

In association with New Zealand Industry, Ministry of Defence and NZ Defence Forces. More details to come.

Land Forces 2014

DATE: 22 - 25 September, 2014, Brisbane

The Land Forces 2014 conference is a major event for users, providers, academics, designers and manufacturers to meet, present, share and exchange new and visionary ideas on Land Systems. More details to come.

ADM will
be in
attendance

