



DEFENCE WEEK

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Land 400 will seek to combine the roles of all these vehicles

The strategy behind Land 400

Tom Muir

While Chief of Army Lieutenant General David Morrison says part of the focus for this year on new equipment for the Army is seeking Government approval for Land 400, ASPI intern Daniel Nichola writes in *The Strategist* that the contrast between Defence's strategic guidance and Land 400's operational guidance reflects two contending priorities for Army: leading non-conventional missions vs. fighting conventional wars.

Ideally, Nichola writes, Army should be able to carry out both of these tasks, but, as always some degree of choice must be made between flexibility and capacity. Significant investments in high-intensity conventional combat capabilities could usurp Defence resources required to build the skills and larger infantry numbers needed for major stabilisation operations, and vice versa.

Nichola also writes that the Government must decide which of



these two roles should take priority for Army within Australia's overarching defence strategy. This is a first-order task because their capability requirements are considerably different—and without strategic guidance that clearly defines Army's priorities, Defence has no rigorous basis upon which to consider Army's capability choices. If only for the sake of the **\$10 billion attached to Land 400**, the Government must determine whether Army's primary expeditionary role is leading non-conventional missions or fighting conventional wars.

Land 400 Combined Arms Fighting System (CAFS)

The aim of the Land 400 capability is to enhance the survivability and combat effectiveness of ground forces in close combat through the provision of a cost effective, integrated **Future Combat Vehicle System (FCVS)**. Indications are that urban and associated complex terrain will be the most likely conflict environment due to a number of demographic and technological influences.

In particular, low to mid-level technology adversaries will seek to use complex urban terrain to reduce the effectiveness of long range sensors and weapons. Aside from national armed forces, these adversaries may include a mixture of irregular and third party forces, local and international criminal elements. In this environment, land forces will be required to undertake a wide range of tasks, simultaneously, and at short notice.

It is against this backdrop that Land 400 is expected to deliver a system which incorporates platforms capable of being employed in a variety of roles including infantry fighting vehicle; armoured personnel carrier, command and control post, reconnaissance and surveillance, and so on.

In late 2012 a request for information (RFI) was released to industry as part of the capability definition process, with specific information used to further refine the capability concept and cost estimation. The RFI would also inform the development of a Land Combat Vehicle System capability roadmap. It sought:

Now we understand the government is expected to give in-principle approval (first pass) and release preliminary tender guidelines to industry by 2015. Contenders for the Land 400 combat vehicle capability are believed to include the following:

- **PSM (KMW/Rheinmetall Land Systems)**, tracked Puma AIFV 31 tonne to 43 tonne
- **GD Land Systems Australia** tracked ASCOD 2 SV 42 tonne
- **BAE Systems** CV90 Mk III Armadillo 27 tonne
- **Nexter (Giat Industries / Renault VI)** wheeled VBCI 26 tonne
- **GD Land Systems Australia** wheeled Piranha V 25 tonne
- **ARTEC GmbH (Krauss-Maffei Wegmann / Rheinmetall)** wheeled Boxer 25 tonne
- **Singapore Technologies Kinetics** tracked Bionix AFV 23 tonne
- **Otokar** wheeled Arma 18.5 tonne

Conference reports now on ADM's website
NEW!

To access ADM conference reports from the last four conferences go to the ADM website and click on the "articles" tab and then find the "conference report" option.





Defence extends IT contract with Fujitsu

Defence has extended Fujitsu Australia and New Zealand's distributed computing centralised services (DCCS) contract for three more years.

The contract extension is valued at \$170 million, and will involve provision

of services including the service desk, service catalogue, information technology service management (ITSM) tools support, processes, and resource based tasking for server and desktop, email and groupware.

"We have engaged in a major transformation programme that is helping Defence better manage and optimise change within its ICT environments," Fujitsu Australia and New Zealand CEO Mike Foster said. "We have invested in the development of a dedicated workforce for the department. In the 16 years of engagement with Defence we have invested in the development of a dedicated workforce for the department that currently numbers over 500 people."

The latest contract extension comes in the wake of the department's decision last month not to merge its IT services contracts.

The latest investments form part of Department of Defence's efforts to drive major performance improvements and efficiencies across its network, desktop and data centre environments.

In addition, a peak of ICT activity is anticipated during 2014 to 2015 period, as several major projects are planned for the period.

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



For early
bird rates
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February 28





New wheels and brakes for RAAF C-130s

UTC Aerospace Systems, a unit of United Technologies, has been awarded a contract to provide upgraded wheels and brakes for the RAAF's C-130 aircraft. According to the supplier, the new wheels and brakes feature the latest in technology and industry-leading innovation. The carbon

brakes use proprietary carbon heat sink material that provides eight times longer life than the current steel brake. The **DURACARB carbon** also provides significant performance improvement in brake cooling time that allows aircraft flight crews the ability to depart tactical areas more quickly after delivering cargo. The boltless wheels employ a lock-ring design, substantially lowering maintenance time and cost, in addition to reduced parts count, when compared to traditional bolted aircraft wheels.

"The new C-130 wheel and brake equipment is scheduled for delivery to the Royal Australian Air Force at Richmond Air Base, NSW, in May, 2014. We are pleased the Royal Australian Air Force has selected our advanced wheel and braking system for their C-130 transport aircraft," **Jeff Atkinson**, director of Military Programs for UTC Aerospace Systems Wheels and Brakes said.

"This selection demonstrates their confidence in our innovative and service-proven technology. In 2013 we completed delivery of these advanced wheels and brakes to the US Air Force for their C-130 fleet upgrade. We now look forward to providing our C-130 wheels and brakes for the first time to an international fleet."



Labor Party funding commitment to SA's Defence Industry

The Labor Party has committed to providing additional funding to the Defence Teaming Centre (DTC) should they be re-elected in the upcoming South Australian state election.

In response to this announcement, DTC CEO **Chris Burns** believes that this will assist South

Australia's defence industry to be more capable and competitive in the global defence industry marketplace.

"The funding will allow us to provide further support to SA's defence industry that will enable it to pursue opportunities in South East Asia. More work means more jobs, more jobs in the defence industry sector enhances its capacity to absorb automotive industry workers," Burns said.

He went on to say that “South Australia’s defence industry is a key enabler to the State’s future prosperity and the nation’s security. There are tremendous opportunities on the horizon for that industry in Australia and the region.”

“The defence industry forms the foundation of our State’s advanced manufacturing future. Its success has been built on strong bipartisan support of the industry. We hope that bipartisanship continues and the Liberal party matches the Labor Party’s commitment to the DTC,” Burns said. “The DTC has more than 200 member companies who employ more than 17,000 South Australians all focused on making sure our State is best placed to generate military capability for the ADF.



Lockheed Martin, Victorian Wave partners sign wave energy contract

To advance the availability of alternative energy solutions, Lockheed Martin has signed a contract with Victorian Wave Partners Ltd. to begin developing the world’s largest wave energy project announced to date.

This is a significant step toward making ocean energy commercially available.

The 62.5-megawatt peak power wave energy generation project will be built off the coast of Victoria, Australia, using the **PowerBuoy**

wave energy converter technology of Ocean Power Technologies (OPT). The project is scheduled to be built up in three stages, with the first stage producing approximately 2.5-megawatt peak power. Once completed, the project is expected to produce enough energy to meet the needs of 10,000 homes. As this project also contributes to Australia’s goal of 20 per cent renewable energy by 2020, it has received significant grant support from **ARENA (Australian Renewable Energy Agency).**

Wave power devices extract energy from the surface motion of ocean waves. Unlike wind and solar sources, energy from ocean waves is very predictable and can generate electricity for more hours in the year than wind and solar. In addition, wave power devices are typically quieter and much less visually obtrusive as compared to wind turbines, which typically run more than 130 feet in height. In contrast, a PowerBuoy is only 30 feet in height above the waterline and is barely visible, as it is typically three miles offshore.



US Army also adapting to maritime culture

Tom Muir

The Australian Army is developing an amphibious capability in line with the ADF's maritime strategy, and in regard to doctrine, training, tactics and procedures, the ADF's amphibious force is drawing heavily on its counterparts in the US Marine Corps.

Indeed the Australian Army's proposed **Amphibious Ready Group (ARG)** comprising a medium weight Battle Group, and its short notice amphibious capability, the **Amphibious Ready Element (ARE)**, based on an infantry company with protected mobility, have their counterparts in the **USMC's Amphibious Ready Groups** and their **Marine Expeditionary Units**.

Now the US Army is working to further adapt to a maritime culture in the Pacific through joint training exercises with the other services and with US allies in the region. While the service has long been involved in maritime exercises in the Asia Pacific region, it continues to develop maritime interoperability with the Navy, Air Force and Marines as the Defense Department pays more attention to the area.

Of the 29 exercises planned for this year, the Army will be working with Asia-Pacific regional allies in 15, while the remaining 14 exercises will involve the other services, according to the US Army's Lieutenant Colonel **Mike Brophy**.

LTCOL Brophy says these exercises run the gamut of operations that we are doing here in the Pacific theatre.

"There are some focused on combat missions and improving our ability to accomplish our wartime tasks, but many are focused on working with our sister services and our partner nations on humanitarian assistance and disaster response," LTCOL Brophy said. "These are critical functions that we are trying to work together to develop a common way ahead for how the different nations around the Pacific rim will respond together in the event of a humanitarian crisis or a disaster," he added. - *TMI/Judson/Inside Defense*

REGISTER NOW!
ADM2014 Congress
25-26 February 2014 | Hyatt Hotel Canberra

The event will hear from senior government ministers and defence officials, following the recent election, and will centre on the theme **'What does government want of industry?'**



Keynote speaker
David Johnston,
Minister for
Defence





Australian and Pakistani warships work together in drug bust

Royal Australian Navy Frigate *HMAS Melbourne* and Pakistani Naval Ship (PNS) *Alamgir* have worked together to seize and destroy almost two tonnes of suspected cannabis resin with an estimated Australian street value of approximately \$AU113 million.

PNS *Alamgir* located the suspect dhow east of Masriah Island, Oman early February 12, 2014. While *Alamgir* tracked the dhow, *HMAS Melbourne* provided support and boarded the vessel and found 1951 kilograms of cannabis resin in a hidden compartment within the vessel's fishing hold.

HMAS Melbourne's Commanding Officer, **Commander Brian Schlegel** said the success of the drug seizure helps to prevent the funding of international terrorism.

"The 62 bags contain cannabis resin bricks – almost 4000 bricks in total. Each brick is more than enough to buy an **AK-47** or **IED components**. Therefore, removing the funding that flows from the sale of these drugs has a direct impact on a terrorist organisation's ability to buy weapons in the future," Commander Schlegel said.

Australia's Commodore **Daryl Bates**, the current commander of **CMF's Combined Task Force (CTF) 150**, said the successful operation involving the Pakistani and Australian frigates, demonstrates how well the navies of the Combined Maritime Forces are working together to combat terrorism and terrorist-related activities in the Middle East and Indian Ocean regions.

Australia donates two-Bay class vessels to Malaysia

The Australian Customs and Border Protection service is to donate two Bay-class patrol vessels to the Malaysian Maritime Enforcement Agency (MMEA), at a cost of AU\$1.2 million (US\$1.07 million), as part of ongoing efforts to stem the flow of illegal migrants to Australia.

Australian Immigration Minister **Scott Morrison** announced the move on February 5 during a meeting with MMEA General Director Admiral Maritime **Datuk Mohd Amdan Kurish** in Putrajaya, Malaysia.

"Australia and Malaysia have co-operated closely to combat people smuggling," Morrison said. "Providing two Bay-class vessels to our valued partners is a practical operational strategy to stem this criminal trade."

Australia sees the Strait of Malacca as a major transit route for migrants, who also use Malaysia as a launchpad for getting into Indonesia and ultimately Australia.





Development of Defence land to ease Darwin housing pressure

Assistant Minister for Defence Stuart Robert, together with the Federal Member for Solomon, Natasha Griggs, has announced additional housing for the Top End.

This initiative will deliver more high quality housing for Defence members while also delivering more land for residential developments that will benefit the general community.

“Under the Australian Government’s plan we will deliver an additional 800 houses for Defence members and their families and, importantly, deliver over 1,500 houses for the general public in Darwin,” Robert said.

“Additionally, as Defence members and their families move into their new **Defence Housing Australia (DHA)** houses, their vacated houses will be made available to the general public, further easing the pressure on the private housing market.”

The announcement at Defence’s former 2 Control and Reporting Unit (2CRU) represents the first phase of the Government’s **Top-End Defence housing strategy**.

“The proposed sale of 2CRU to DHA is the first step in my plan to deliver more quality housing for Defence members and to ease the housing pressure on Darwin’s general community,” Robert said.

“This particular development will provide approximately 400 additional homes. Of these, more than 200 will be made available to members of the public with their construction expected to start in 2017.”



New ADM Editor till 3Q 2014

ADM Editor Katherine Ziesing will be heading off on maternity leave at end of the week to transition the Ziesing Mark II into service.

ADM regular **Nigel Pittaway** will be sitting in the chair until she comes back in the third quarter of 2014. The usual ADM suspects of Julian Kerr, Tom Muir, Phillip Smart and John Hilvert along with web editor Erin Pittman, advertising guru David Jones and managing publisher Judy Hinz will support Nigel over this period.

Head to the [ADM contacts page](#) for all the usual contact details for the team.





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, Australian owned Metromatics and COTS manufacturer Crystal Group made their first sale to the **DTSO**.

BAE Systems completed its largest-ever Australian export shipment, delivering eight telecommunications sub-systems to Daewoo Shipbuilding and Marine Engineering in Korea.

And, **Rolls-Royce** completed a long-term agreement with Lockheed Martin worth up to US\$1 billion to deliver approximately 600 engines to power future C-130J Super Hercules aircraft.

International



Interest grows in ground-based air defence

Tom Muir

The Brazilian Army is scheduled to sign a contract with Sweden's Saab Dynamics to buy RBS 70 man-portable surface-to-air missile systems. According to *IHS Jane's* the package, worth some US\$11.6

million, will include 16 man-portable tripod-mounted launchers equipped with a thermal imager, an undisclosed number of Mk2 laser beam-riding missiles, simulators, a test bench, maintenance tools, spares, and training services.

RBS 70 will be integrated into the army's shelter-mounted mobile anti-aircraft artillery command-and-control system and coupled to the **SABER M60 3D surveillance and target acquisition radar**.

And **Rafael Advanced Defense Systems** has unveiled its **Iron Beam high-energy laser (HEL) system** designed to defeat rockets, mortars, and unmanned aerial vehicles



(UAVs) at short ranges. The land-based system, which was unveiled at the Singapore Airshow 2014, uses a pair of multi-kilowatt solid-state lasers to defeat incoming projectiles out to a range of about 2 km, a company official told *IHS Jane's*.

The mobile Iron Beam battery comprises an air defence radar, a **command and control (C2) unit**, and two high energy laser systems, Imagery of the truck-mounted battery shows these various components housed in ISO shipping containers, although the actual configuration of the Iron Beam would depend on the customer's requirements.

Currently a truck-mounted system that is being used as a testbed, the company says it could just as easily be fitted to an armoured vehicle or some other configuration.

Once the Iron Beam's air defence radar acquires an incoming projectile, a thermal camera takes over the tracking until it is engaged simultaneously by the two high energy laser systems. Two lasers to provide the power needed to overcome atmospheric interference and physically destroy the target, which it does by focusing the beams on an area about the size of a coin.

The company has declined to indicate specific power levels for the HELs, except to say that they are currently working with "tens of kilowatts", but expects to move into the "hundreds of kilowatts" in the future. Rafael does not produce the lasers itself, but sources them from several unnamed suppliers.



Pakistan to buy Chinese submarines?

Pakistan could sign a deal to buy up to six submarines from China before the end of 2014, senior Pakistani government officials have told *IHS Jane's*.

A Pakistani government minister revealed in March 2011 that China had offered to sell up to six submarines to Pakistan although he did not specify details of the boats on offer. Western officials in Islamabad suggest that

China's subsequent international marketing of the '**S20**' or **Yuan-class diesel-electric submarine (SSK)** suggests it could be a potential option for Pakistan.

The submarine contract would further cement China's rapidly growing role as the main supplier of military hardware to Pakistan's armed forces and fill an important gap in Pakistan Navy (PN) capabilities. The PN is known to operate five French submarines: three **Agosta 90B (Khalid-class) submarines** purchased in the 1990s and two ageing **Agosta 70 (Hashmat-class) boats** dating from the late 1970s. In 2009, the PN sought to purchase three German-built **Type 214 submarines**, but the plan was put on hold due to costs that at the time were reported to be in excess of US\$2 billion.

A Sino-Pakistan submarine contract will be closely watched by Western officials for any signs that may suggest progression towards nuclear-powered boats. Pakistan's defence planners consider the absence of such a platform - which they would eventually want to see armed with submarine-launched nuclear ballistic missiles - as major disadvantage in a potential conflict with India. However, Western officials believe China will hesitate to extend such advanced technology to Pakistan given the potential for a harsh reaction from the US and its allies.



Swiss fighters grounded during hijacking as outside office hour

No Swiss fighter jets were scrambled on Monday when an Ethiopian Airlines co-pilot hijacked his own plane and forced it to land in Geneva, because it happened outside business hours, the Swiss airforce said.

When the co-pilot on flight **ET-702** from Addis Ababa to Rome locked himself in the cockpit while the pilot went to the bathroom and announced a hijacking, Italian and French fighter jets were scrambled to escort the plane through their respective airspaces.

But although the co-pilot-turned-hijacker quickly announced he wanted to land the plane in Switzerland, where he later said he aimed to seek asylum, Switzerland's fleet of **F-18s** and **F-5 Tigers** remained on the ground.

Swiss airforce spokesman Laurent Savary explained that this was because the Swiss airforce is only available during office hours. These are reported to be from 8am until noon, then 1:30 to 5pm.

"Switzerland cannot intervene because its airbases are closed at night and on the weekend," he said, adding: "It's a question of budget and staffing".

Monday's hijacking, carried out by 31-year-old Hailemedehin Abera Tagegn, according to Addis Ababa, took place in the very early hours, with the aircraft and its 202 passengers and crew landing safely in Geneva at 6:02 am (0502 GMT).

That was just two minutes after the airport opened for business, and two hours before the Swiss airforce is operational.

Savary said Switzerland relies heavily on deals with its neighbours, especially France, to help police its airspace outside regular office hours.

He explained that French fighters can escort a suspicious aircraft into Swiss airspace, "but there is no question of shooting it down. It's a question of national sovereignty".

Swiss airspace is under constant electronic surveillance, he pointed out, adding that the wealthy Alpine nation is also studying the possibility of expanding its airforce coverage to a round-the-clock operation.

That plan is however not set to kick into action until 2020, when Switzerland is expected to replace its fleet of fighters with Swedish **Gripen** planes. - *AFP*

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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 2014 Defence/Industry Congress

DATE: 25 - 26 February, 2014, Canberra
ENQUIRIES: ADM Events - Adam Wiltshire, Ph: 02 9080 4342;
 Email: adam.wiltshire@informa.com.au
 Web: www.admevents.com.au

This major Defence/Industry Conference has evolved into a pivotal event in the Defence calendar, attracting over 250 delegates each year. More details to come.

ADM will
be in
attendance

Centenary of Military Aviation Air Show 2014

DATE: 1 - 2 March, 2014, Point Cook, Victoria
ENQUIRIES: Web: <http://www.airforce.gov.au/>

The event highlights the significant advances in military aircraft during the past 100 years.

The Submarine Choice: ASPI's International Conference

DATE: 8 - 10 April, 2014, Canberra
ENQUIRIES: Lynne Gozzard, Ph: 02 6270 5109;
 Email: lynnegozzard@aspi.org.au

Join distinguished international and Australian speakers for two days of debate on Australia's Future Submarine choice. Topics include: The Strategic Context; the Navy's Perspective; Regional Perspectives; Design Options; Industry and Economics; Project Management; Lessons from Abroad.

ADM will
be in
attendance

3rd annual 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

Land Forces Conference 2014

DATE: 22 - 26 September, 2014, Brisbane

The Land Forces 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

