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Argentina: Defence Budget and Future Procurements



A long list of procurements which were necessary for the modernisation of the armed forces, remained constrained for years by

the prolonged economic hardship Argentina experienced. In the late 1990's the defence budget reached a peak, but declined in subsequent years. The country recovered and recently military is implementing a modernization plan mainly aiming at making the military forces lighter and more responsive. In this process Argentina heavily depends on defence imports as indigenous defence industry is able to produce a wide, but not technologically advanced, range of military products. According to official estimation provided by the Secretary of Finance (Secretaria de Hacienda) 96,878.2 million pesos (approximately 6,605 million US dollars) will be allocated to defence and security for 2016, augmented by approximately 17% compared to 2015 when Argentina spent 82,677.3 million pesos (approximately 5,636 million US dollars).

More specifically in 2016 the country is planning to spend 35,296.9 million pesos (approximately 2,406 million US dollars) on defence, 50,419.3 million pesos (approximately 3,437 million US dollars) on internal security and the remaining budget will be allocated to the penal system and intelligence.



	Defence	Internal Security	Penal System	Intelligence	Total
2009	6565.6	6683.5	1033.5	858	15140.6
2010	7860.2	9855.4	1462.5	991.4	20169.5
2011	9277.9	12109	1824.9	1123.7	24335.5
2012	11885.6	14847.6	2548.6	1415.5	30697.3
2013	15488.6	21849.5	3,277.80	1653.6	42269.5
2014	22066.1	32291.1	4285.4	2222.6	60865.2
2015	29419.2	43877.7	6455.6	2924.8	82677.3
2016	35296.9	50419.3	7647.6	3514.4	96878.2
Source: http://www.mecon.gov.ar					

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Historically the Argentine army receives the highest allocation of the total defence budget. It is indicative that in 2016 the army is expected to receive 46%, the navy 22% and the air force 20% of the budget. The remaining funds are allocated to the Ministry of Defence and other authorities responsible for defence administration, planning and development of the domestic defence industry.

	Army	Navy	Air Force	Other Expenses
2011	42.3%	26%	21.7%	10%
2012	42.7%	25.5%	21.7%	10%
2013	43.7%	23.2%	23.3%	9.8%
2014	43%	22.3%	21.8%	12.9%
2015	46%	22.7%	18.6%	12.7%
2016	46%	22%	19.9%	12.2%

Breakdown of Defence Budget by Branch

Source: http://www.mecon.gov.ar

According to official estimations in 2016 the breakdown is expected to be as following: 73.9% personnel's costs, 7.5% consumable goods, 9.7% non-personnel related services and 5.1% fixed assets.

	Personnel's Costs	Consumable Goods	Non-Personnel Related Services	Fixed Assets	Other Expenses
2010	70.1%	9.6%	12.5%	6.9%	0.8%
2011	89.3%	10.1%	12.6%	5.6%	1.0%
2012	72.2%	15.3%	19.6%	6.9%	1.3%
2013	73.4%	8.7%	11.1%	5.5%	1.4%
2014	71.8%	8.5%	10.7%	4.4%	4.6%
2015	72.8%	7.2%	10.0%	5.4%	4.5%
2016	73.9%	7.5%	9.7%	5.1%	3.8%

Breakdown of Defence Budget

Source: http://www.mecon.gov.ar

As it is obvious from the table above, a high portion of the country's defence spending is used to pay for salaries and day-to-day expenses of military personnel, thus Buenos Aires has not much money left over for large-scale military acquisition programs. Still, the government continues to make modest investment in military equipment. More specifically in the near future Argentinian authorities are planning to proceed with the acquisition and/or modernisation of the following defence assets:

Land Forces:

- Modernisation of garrison and patrolling assets with the introduction of new 4x4 and 4x2 vehicles.
- Modernisation of combat armoured vehicles and fire support units and replacement of those that are considered to be obsolete, giving priority to the modernisation of the Tanque Argentino Mediano (TAM), the main battle tank in service with the Argentine Army.

- Increase the air mobility capabilities of the armed forces through the modernisation of the aircraft assets of the land forces, giving priority to the update of the Bell UH-1 Iroquois helicopter to the HUEY II version.
- Increasing the combat capability of the individual soldier, in all weather conditions, by incorporating new and more sophisticated equipment (SEMIL Project).

Air Force:

- Manufacturing of new IA-63 PAMPA aircraft, modernisation of the existing PAMPA III and GT and upgrading of the PAMPA II-40 and IA-58 PUCARA aircraft. Additionally one of the priorities of the Argentine air force is the development of a new training aircraft in collaboration with other member states of the Union of South American Nations (UNASUR).
- Finally it is worth mentioning that Argentina has joined the Brazilian KC-390 programme for the development of a medium lift transport aircraft. Brazilian firm Embraer is the primary contractor of the project. The air force is expected to procure 6 such aircraft in the future.

Navy:

- Update of the MEKO 360 destroyers. The MEKO 360 is a class of five destroyers built in Germany for the Argentine and Nigerian Navies.
- Repair of the TR-1700 (Santa Cruz) submarine and replacement of its batteries. The TR-1700 class of diesel-electric patrol submarines was built by Thyssen Nordseewerke for the Argentine Navy in the 1980s.

Kyriazis Vasileios

Epicos Newsletter Head Editor

Argentina: Defence Industry, Technological Level and Local Production





The Argentine defence industrial base has limited capabilities, as local

companies have the ability to develop and manufacture a range of equipment in the land, sea and air segments, but their ability to manufacture advanced platforms and systems is rather limited at present. Nevertheless, the government currently attempts to revitalize the nation's defence industry and a significant portion of funds are directed toward this end. It is indicative that in 2016 around 267 million pesos (approximately 18.3 million US dollars) were allocated to the Institute of Scientific and Technical Research for Defence

(Instituto de Investigaciones Científicas y Técnicas para la Defensa – CITEDEF) the federal agency in charge of research and development in the defence industry. This amount was significantly increased compared to 2010 when it accounted for 57,7 million pesos (approximately 4 million US dollars).



Source: http://www.mecon.gov.ar

The first steps for the establishment of a viable defence industry in Argentina were made during the Second World War and were further intensified during the 1970s after the two embargoes that were separately imposed by the U.S Congress in the mid-70's because of human rights abuses. As a result Argentina started to develop its own industry capabilities. Argentine Aerospace and Defence industry flourished and progressively became one of the most important industries in Latina America.

Beginning in October 1990 Argentine government privatized almost its entire arms producing sectors. The politics of privatization virtually eliminated domestic military production. During the last years several defence companies were reopened and/or renationalised in an attempt to revitalise the local defence industrial base with the outmost goal to develop different programs to improve the technological level of the Argentine armed forces.

One of the companies that were privatised was Fábrica Militar de Aviones (FMA). FMA was privatized in 1995 to Lockheed Martin and from that year until March 2009 it operated as a concession to LMAASA (Lockheed Martin Aircraft Argentina SA). In 2009 the company was again nationalised and was renamed to Fábrica Argentina de Aviones "Brigadier San Martin" S.A. (FADAE).

Over the years FADAE has developed several innovative aircraft prototypes, but the state of the Argentine economy has usually prevented them from entering large-scale production. Nevertheless, FADAE has produced a number of aircraft such as the FMA IA 58 Pucará and the FMA IA 63 Pampa advanced trainer aircraft.

One of the most interesting projects local defence industry has undergone is that of the joint development of a basic training aircraft in collaboration with other member states of the Union of South American Nations (UNASUR). Fabrica Argentina de Aviones SA (FADAE) is the leading contractor of the aircraft. Additionally, Argentina also participates in another collaboration program that for the development of the Brazilian KC-390 medium lift transport aircraft. Brazilian firm Embraer is the primary contractor of the project. Fábrica Argentina de Aviones supplies the tail cone, cargo door and landing gear doors of the aircraft.

Finally, it is worth mentioning that Argentina has the capacity to produce small arms and ammunition, the production of which is centred at the Fabricaciones Militares (Dirección General de Fabricaciones Militares (DGFM), a state-owned Argentine arms manufacturer based in Buenos Aires.

Kyriazis Vasileios Epicos Newsletter Head Editor

Epicos "Industrial Cooperation and Offset Projects"

Cpicos.com Epicos "Industrial Cooperation and Offset Projects" provides a unique set of online tools enabling the structure, identification and implementation of comprehensive Offsets programs, through a searchable database. By introducing different offset projects and ideas proposed by local A&D industry it ensures the optimum cost for Prime Contractors and reassures that the priorities of local industry are fully met...

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Development of mission critical rugged displays 8xs/10xs for military and tactical vehicles



A company that designs and produces industrial computers and displays for use in the most demanding environments and also designs industrial displays and produces neural network software and automation solutions is proposing the provision of CEF 8xs/10xs type military displays to be used in an offset project or in an upgrade program.

For Further Information Contact our ICO Department Mail at: a-kintis@epicos.com

High purity mobile Nitrogen generator for cooling homing heads of infra-red head missiles



infra-red head missiles.

А company specializing in the production of PSA Oxygen Generators, Nitrogen Generators and Cylinder Filling Stations, is proposing the design; manufacture and final testing of a mobile Nitrogen generator of High Purity, for cooling homing heads of

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News from our A&D Business Network



MBDA Secures 184m GBP ASRAAM Production Order for the UK F-35s



The United Kingdom's (UK) Ministry of Defence (MoD) has awarded MBDA a £184M production contract for the supply of the highly capable infra-red (IR) guided

air-to-air missile, ASRAAM, to equip the UK's F-35 Lightning II stealth fighter jet. ASRAAM will be the first British designed missile to enter service on the F-35. ASRAAM's large rocket motor and clean aerodynamic design gives it high kinematic capability to deliver superior end-game performance compared with other countries' in-service IR missiles.

MBDA is currently under contract for an ASRAAM capability sustainment programme for the Typhoon fast jet and this new order to equip the F-35 will see the production of additional missiles. Value for money is ensured through the re-use of components from other MBDA products such as the Common Anti-air Modular Missile (CAMM), whilst also ensuring the benefits of a single IR missile across the fast jet fleet is retained.

The missiles will be produced at MBDA's new £40M Bolton manufacturing and assembly site with engineering activities carried out at MBDA sites in Stevenage and Bristol. The overall ASRAAM programme, combined with associated workload around domestic and export programmes using the core CAMM system, is employing 400 skilled employees across the MBDA sites and the UK complex weapons supply chain. Collectively these orders also ensure that ASRAAM remains available for overseas customers and future exports.

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Lockheed Martin Successfully Closes Transaction to Separate and Combine IT and Technical Services Businesses with Leidos

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Lockheed Martin has completed the separation of its Information Systems & Global Solutions (IS&GS) business segment and merged it with a subsidiary of Leidos Holdings, Inc. The transaction concludes

Lockheed Martin's portfolio reshaping strategy announced last year and was finalized through a tax-efficient Reverse Morris Trust transaction.

The merger creates tangible value for both businesses. It will enable Lockheed Martin to reinforce its heritage in aerospace and defense and deliver more value to stockholders. As for the newly combined company, it will offer a broader and more affordable portfolio of capabilities and services to customers.

"This strategic transaction enhances our competitive posture in our core aerospace and defense markets and increases the value we deliver to our stockholders," said Lockheed Martin Chairman, President and CEO Marillyn Hewson. "As we position our company for the future, this action will enable us to focus our business growth strategy, align our technology investments and increase the value we deliver to customers worldwide."

The closing of the merger followed the expiration of the exchange offer and the satisfaction of certain other conditions. As part of the transaction, Lockheed Martin received a \$1.8 billion special cash payment, which the Corporation will use to repay debt, pay dividends, and/or repurchase its stock. As a result of the exchange offer, Lockheed Martin reduced outstanding shares of its common stock by 9,369,694 shares, or approximately 3% of the outstanding common shares. Lockheed Martin stockholders who participated in the exchange offer received an approximately 50.5 percent stake in Leidos (approximately 77 million shares of Leidos common stock). The special cash payment, plus the shares of Leidos common stock to be received by participating Lockheed Martin stockholders (valued based on Leidos' August 15 closing price adjusted for the \$13.64 per share Leidos special dividend to be paid), results in an aggregate transaction value of approximately \$4.6 billion.

Preliminary Results of Exchange Offer

Lockheed Martin stockholders had an opportunity to exchange their shares of Lockheed Martin common stock for shares of Abacus Innovations Corporation (Abacus), a wholly owned subsidiary of Lockheed Martin created to facilitate the transaction, which automatically converted into the right to receive shares of Leidos common stock at the close of the transaction. The final exchange ratio for the exchange offer was set at 8.2136 shares of common stock of Abacus for each share of Lockheed Martin common stock. Each share of Abacus common stock was converted in the merger into one share of Leidos common stock. As a result, Lockheed Martin stockholders who tendered and did not properly withdraw their shares of Lockheed Martin common stock in the exchange offer received

approximately 8.2136 shares of Leidos common stock (subject to the receipt of cash in lieu of fractional shares) for each share of Lockheed Martin common stock accepted for exchange.

Pursuant to the exchange offer, which expired today at 8:00 a.m. EDT, Lockheed Martin accepted 9,369,694 shares of Lockheed Martin common stock in exchange for the 76,958,918 shares of Abacus common stock owned by Lockheed Martin, which represent all of the outstanding shares of Abacus.

Because more than 9,369,694 shares of Lockheed Martin common stock were validly tendered and not properly withdrawn in the exchange offer, the exchange offer was oversubscribed and all shares of Abacus common stock owned by Lockheed Martin were distributed in the exchange offer. As a result of the oversubscription, it was not necessary to distribute shares of Abacus common stock to Lockheed Martin stockholders as a pro rata dividend. Earlier today, Lockheed Martin announced a preliminary proration factor of approximately 8.01 percent.

About Lockheed Martin

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 98,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

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Epicos NewsRoom

epicos.com Elbit Systems of America's Integrated Fixed Tower Program Named Most Notable Border **Security Program**

Elbit Systems of America, LLC, was recently named the winner of the Most Notable Border Security Program Award by Government Security News (GSN) for the Integrated Fixed Tower deployment to the United States Border Patrol. The Border Security award is one of the awards GSN presents annually to recognize "top leaders in new technologies and innovative security strategies" for Airport, Seaport, and Border Security.

"Elbit Systems of America appreciates the recognition received by Government Security News for the Integrated Fixed Towers (IFT) program," commented Elbit Systems of America President and CEO Raanan Horowitz. "The GSN award is further evidence acknowledging the impact of our border security solutions and our commitment to being a key partner to the Department of Homeland Security Customs and Border Protection and the United States Border Patrol," continued Horowitz.

"We have a proven history of delivering effective solutions and have made border security a long-term strategic focus, leveraging the latest technologies to solve the most difficult problems for the safety and security of the nation."

Elbit Systems of America's initial deployment of the IFT in the Nogales Arizona Area of Responsibility (AoR), was certified earlier this year by the then Acting Chief of the U.S. Border Patrol, based on a review of "test results and agent feedback, confirming that the IFT system adds surveillance capability, increasing situational awareness and officer safety." The second system is now being deployed in the Douglas Arizona AoR.

As the prime contractor, Elbit Systems of America integrates state-of-the-art sensors with a robust and flexible command and control system and human-machine interface specifically adapted to the Border Patrol's operational needs. The system ensures a high degree of reliability in the demanding desert environment of the southwest border. The IFT system deployed in the Nogales AoR has been in 24/7 operation since August 2015 and provides Border Patrol Agents a high level of operational availability for increased awareness.

About Elbit Systems of America, LLC

Elbit Systems of America is a leading provider of high performance products, system solutions, and support services focusing on the commercial aviation, defense, homeland security, cyber security, and medical instrumentation markets. With facilities throughout the United States, Elbit Systems of America is dedicated to supporting those who contribute daily to the safety and security of the United States. Elbit Systems of America, LLC is wholly owned by Elbit Systems Ltd. (NASDAQ and TASE: ESLT), a global electronics company engaged in a wide range of programs for innovative defense and commercial applications. For additional information, visit: http://www.elbitsystems-us.com or follow on Twitter.

About Elbit Systems

Elbit Systems Ltd. is an international high technology company engaged in a wide range of defense, homeland security and commercial programs throughout the world. The Company, which includes Elbit Systems and its subsidiaries, operates in the areas of aerospace, land and naval systems, command, control, communications, computers, intelligence surveillance and reconnaissance ("C4ISR"), unmanned aircraft systems, advanced electro-optics, electro-optic space systems, EW suites, signal intelligence systems, data links and communications systems, radios and cyber-based systems. The Company also focuses on the upgrading of existing platforms, developing new technologies for defense, homeland security and commercial applications and providing a range of support services, including training and simulation systems.

For Further Information <u>Click Here</u>

Source: Epicos, Elbit Systems

SAAB Continues to Enhance the Australian Army's Ground-Based Air Defence Capability

Defence and security company Saab has signed a contract with the Australian Defence Force to upgrade the Army's RBS 70 ground-based air defence weapon system and Giraffe AMB radar. The contract has a combined value of approximately AUD32.5 million.

Delivered under the AIR 90 programme, the existing Identification Friend or Foe (IFF) capability of the RBS 70 and Giraffe AMB systems will be upgraded to include Mode 5 functionality. The Mode 5 waveform uses modern modulation, coding, and cryptographic techniques to overcome performance and security limitations in the current Mode 4 waveform. Additionally, Mode 5 systems provide expanded data handling capabilities to securely pass GPS position and other extended data. The IFF is a critical safety feature of any ground-based air defence capability as it dramatically reduces the risk of incorrectly engaging friendly aircraft. This upgrade will support Australia's Ground-Based Air Defence capability operating in a joint and coalition airspace environment beyond 2030.

The RBS 70 weapon system has been in service in Australia since 1987. Significant enhancements to both the weapon sight and the missile have ensured that it remains a modern and potent missile system to counter a constantly evolving air threat. The Giraffe AMB radar was acquired in 2010 and is part of the capability of the Army's 16th Air Land Regiment. It provides high-fidelity airspace situational awareness while simultaneously ensuring early warning of incoming rocket and mortar attacks, and locating hostile indirect fire.

"Saab's IFF Mode 5 upgrade will ensure the Australian Army's RBS 70 and Giraffe AMB radar capabilities continue to provide world-leading force protection against a wide range of air threats," says Dean Rosenfield, Managing Director of Saab Australia.

"Saab Australia has been the Australian Army's Ground-Based Air Defence trusted capability partner for many years and we look forward to growing this relationship through future Ground Based Air and Missile Defence programs", says Rosenfield.

For three decades, Saab Australia, which is part of Saab business area Surveillance, has successfully delivered and supported the Australian Army's Ground-Based Air Defence capability. Saab's commitment to innovation and technological advancement ensures world-leading capability for modern defence forces. Saab Australia's local expertise and experience makes it the perfect Ground-Based Air and Missile Defence capability partner for the Australian Army, now and into the future.

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Saab serves the global market with world-leading products, services and solutions within military defence and civil security. Saab has operations and employees on all continents around the world. Through innovative, collaborative and pragmatic thinking, Saab develops, adopts and improves new technology to meet customers' changing needs.

Source: Epicos, SAAB

LCS Program: "DETROIT" Delivered

Within the Littoral Combat Ship Program (LCS), the consortium consisting of Fincantieri, through its subsidiary Fincantieri Marinette Marine (FMM), and Lockheed Martin Corporation, has delivered "Detroit" (LCS 7) to the US Navy at FMM's shipyard in Marinette, Wisconsin.

"Detroit" is the fourth Freedom-class ship delivered by the consortium, and it is part of a program started in 2010, which comprises 11 units, all fully funded, on top of the two units delivered before 2010 ("Freedom" - LCS 1 and "Forth Worth" - LCS 3). The other 10 ships delivered or in production are: "Milwaukee" (LCS 5), "Little Rock" (LCS 9), "Sioux City" (LCS 11), "Wichita" (LCS 13), "Billings" (LCS 15), "Indianapolis" (LCS 17), "St. Louis" (LCS 19), "Minneapolis/St. Paul" (LCS 21), "Cooperstown" (LCS 23) and LCS 25.

The construction contract for the LCS Program Freedom-class was awarded to FMM in 2010, within the partnership by Lockheed Martin, global leader in the defense sector. The LCS Freedom-class is one of the US Navy's main shipbuilding programs and relates to a new generation of mid-sized multirole vessels, designed for surveillance activities and coastal defense for deep water operations as well as capabilities for addressing asymmetrical threats such as mines, silent diesel submarines and fast surface ships. 2 LCS Freedom-class vessels have been successfully deployed to the Western Pacific, a third has been delivered in October 2015, 6 are under construction and 3 more in long-lead procurement.

For Further Information <u>Click Here</u>

Source: Epicos, Fincantieri

Lockheed Martin Celebrates Advanced Pilot Training Facility Inauguration

Lockheed Martin officially opened its Advanced Pilot Training facility in Greenville, South Carolina with a celebration and traditional ribbon cutting event. The newly refurbished building will house the Ground Based Training System, as well as the tooling and manufacturing equipment to complete final assembly and flight operations for the T-50A trainer aircraft.

"I want all of the enemies of America to understand that we are not looking for a fair fight. My goal is to have the overwhelming capability to deter those that would choose to go to war with us...they will lose and lose quickly. The T-50A is ready now and fits the need of the 21st century of the U.S. Air Force," said U.S. Senator Lindsey Graham.

The T-50A is low risk and builds upon the proven heritage of the T-50 with more than 150 T-50s flying today – 200,000 flight hours and counting – and more than 1,800 pilots who have trained in this aircraft.

"From the innovation of our Skunk Works team in Palmdale, California – who brought this program to life – to the employees in Greenville who will build the T-50A, the brightest minds and the latest technology have been brought together in this facility to provide the U.S. Air Force with a low risk, highly capable aircraft and training solution," said Lockheed Martin Aeronautics Executive Vice President Orlando Carvalho.

The T-50A was developed jointly by Lockheed Martin and Korea Aerospace Industries. The accompanying T-50A Ground-Based Training System features innovative technologies that deliver an immersive, synchronized ground-based training platform.

Lockheed Martin completed the initial flight test of its first T-50A configured aircraft on June 2, 2016 and the initial flight of its second T-50A configured aircraft on July 26.

About Lockheed Martin

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 98,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

For Further Information Click Here

Source: Epicos, Lockheed Martin

Boeing, Belavia Celebrate Delivery of Airline's First Next-Generation 737-800

Boeing and Belavia, the national airline company of Belarus, celebrated the delivery of the airline's first Next-Generation 737-800 purchased directly from the manufacturer. The airplane, featuring a new distinct livery, completed its delivery flight and arrived overnight in Minsk.

Belavia selected the 737-800 based on business objectives set by the airline – cost efficiency and maximum range for flights to Europe and Central Asia. The 737-800 flies 320 kilometers farther than its competitors while consuming five percent less fuel.

"Belavia focuses on reliability and punctuality in its work," said Anatoly Gusarov, general director, Belavia. "In order to ensure full adherence to our principles, we made our choice focusing on aircraft performance. Therefore, we hope to increase our dispatch reliability and punctuality rate even further after bringing 737 airplanes into operation."

For Further Information Click Here

Source: Epicos, Boeing