Volume 8 Number 38 – Wednesday, 21 September 2016

Part I: Germany

Part II: Epicos Newsroom

Germany: Current and Future Defence Inventory, Future Procurements and Defence Budget

Taking into consideration the growing global instability as well as the changing tasks the country's armed forces is facing in the area of external security – including national defence and international deployments - the German government decided to reverse the trend of recent years and to significantly rise its defence spending. It is indicative that defence budget will be increased by 1.7 billion Euros in 2017 reaching 36.6 billion Euros, while some 10.2 billion Euros more than previously planned will be allocated to defence up to the year 2020. More on that spending on internal security will rise by approximately 540 million Euros over this year's budget and by a total of over 2.2 billion Euros up to 2020.

2017 German Federal Budget

	Billion Euros	As (%) of Total Budget
Labour and Social Affairs	138.6	42.2%
Defence	36.6	11.1%
Transport and Digital Infrastructure	26.8	8.2%
Federal Debt	20.1	6.1%
Education and Research	17.6	5.3%
Health	15.1	4.6%
Revenue Admin.	14.7	4.5%
Internal Affairs	8.3	2.5%
Others	50.9	15.5%

Source: http://www.bundesfinanzministerium.de

Defence Ministry stated that part of the money will be used to modernize equipment, as Germany aims to invest approximately 20% of its defence budget in the procurement of major equipment over the long term in order to meet the target set by NATO. The reason is that currently the German army is underequipped and there is a need for procuring new equipment as well as for the update of the existing.

According to an official report published by the Parliamentary Commissioner for the Armed Forces in 2015 less than half of military planes were combat-ready. In December 2015, the German air force had access to only three A400Ms, while from the 114 Eurofighters currently in operation, 40% were being refitted by the private sector, while only 68 aircraft are with the air wings and, of them, just 38 were operational on average. Additionally, merely 21 out of 50 Transalls C-130 aircraft were flight ready and a lack of spare parts had as a consequence that only 29 out of 93 Tornadoes were operational, five of the 40 NH90 transport helicopter and seven out of the 43 Tiger helicopters.

The German navy mainly complained about the poor operational readiness of the Sea king helicopters from which only three to five out of the 21 currently on the navy's inventory

were operational ready, while from the 22 Sea Lynx seaborne helicopters, only four were operational.

On the other hand German land forces and more specifically the Artillery Demonstration Battalion 345 lack several equipment such as the Fennek reconnaissance vehicle, the Cobra artillery-locating radar system, the MARS multiple launch rocket system and the KZO drone. More on that from the 24 PzH 2000 armoured self-propelled howitzers just seven were available to the battalion.

In order to avert this situation, Minister of Defense Mrs Ursula von der Leyen announced that Germany is planning to invest some 130 billion Euros within the next 15 years in army infrastructure and equipment. The plan includes the procurement of new systems and platforms as well as the overhaul and update of the existing ones. Regarding the rise in the land systems numbers the plan calls for the increase of the LEOPARD 2 Main Battle Tanks (BMTs) from 225 to 320, FENNEK reconnaissance vehicles (from 217 to 248) BOXER 8x8 Armoured Personnel Carriers (APCs) from 272 to 402, PzH 2000 self-propelled howitzers (from 89 to 101), as well as for the procurement of up to 192 Marder and 342 Puma Infantry Fighting Vehicles (IFVs).

Additionally, the Department of Defence released in the beginning of 2016 an Air Power Development Strategy, in which among other states the equipment priorities of the German air force. The key programs mentioned in the reports are the successors of the SEA LYNX shipboard helicopter and the CH-53 heavy transport helicopter, the strategy for the creation of an integrated Future Combat Air System (FCAS), the development of a medium-altitude long-endurance (MALE) class unmanned aerial vehicle in cooperation with France, Italy and Spain, the modernisation of the nations Airborne Early Warning & Control (NAEW&C6) system, the procurement and use of the TRITON UAV, the successor system of the tactical Unmanned Aircraft System (UAS) currently used by the land forces (KZO, LUNA), the P-3C ORION capability spectrum expansion (e.g. wide-area reconnaissance) by the integration of additional reconnaissance resources and finally the maintenance of the Tiger's multirole support helicopter capabilities.

Lastly, it is worth mentioning that Germany is leaning towards the integration of its defence strategy with that of EU and NATO. Long being the economic leader of the continent, Germany gradually assumes greater role in regional and global security in the new environment under creation, both under the NATO and EU mechanisms. In the White Paper published in 2016, Germany calls for a common build-up and expansion of capabilities in Europe with the goal of achieving an interoperable, coherent and comprehensive set of European military defence assets. The initial priorities of such a policy will be the establishment of a common "inventory" of UAVs, air-to-air refuelling assets, satellite communication, cyber protection, and cyber defence.

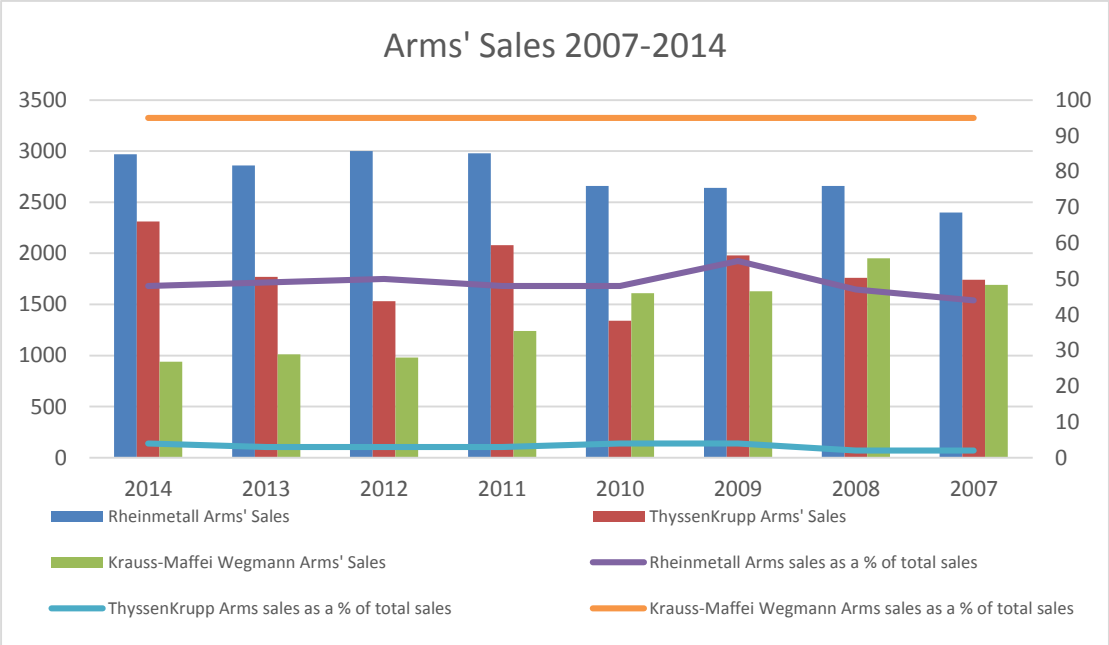
Kyriazis Vasileios

Epicos Newsletter Head Editor

Germany: Defence Industry, Sales, Employment and International Cooperation Schemes

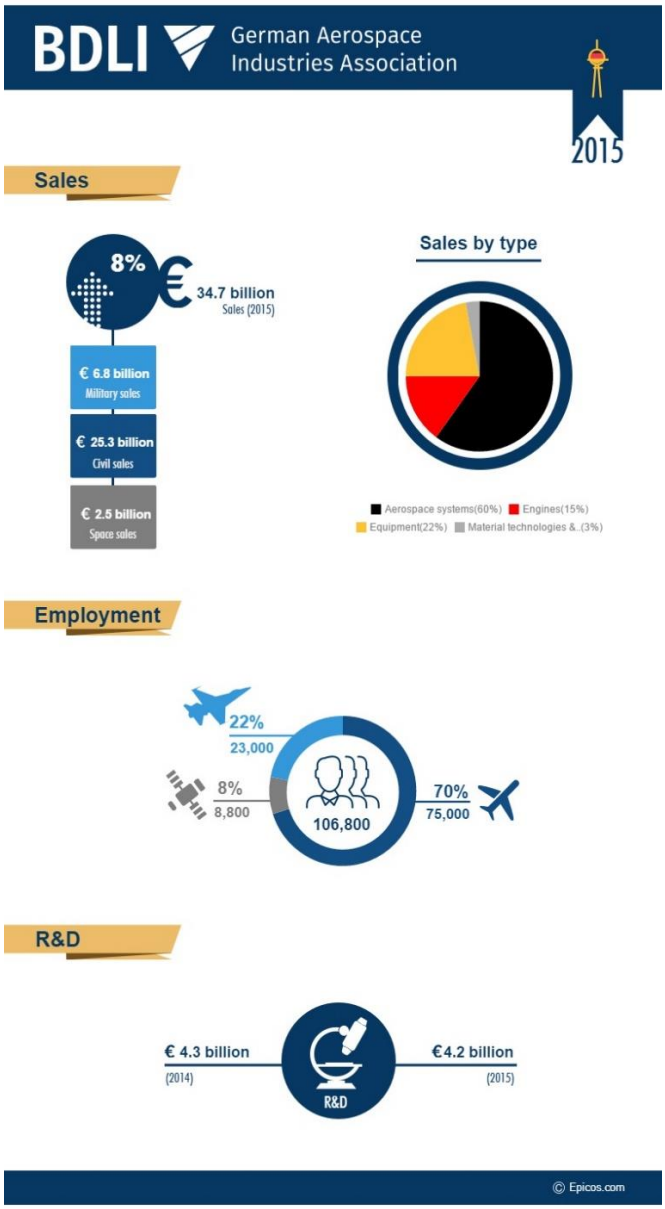
German authorities consider the local Aerospace and Defence (A&D) industry to be of strategic importance for the country's foreign and security policy, as it has developed into a powerful strategic key enabler that helps the country to respond to security policy matters. Additionally, German defence industry is both economically and technologically successful as it is capable of fulfilling both domestic and export requirements. Germany has a mature A&D sector capable of producing a wide range of products, from logistic, utility and armoured vehicles through to Main Battle Tanks (MBTs), combat and transport aircraft, aero-engines, satellites, helicopters, unmanned aerial vehicles, missile systems, sensors, landing gear and flight control computers.

There are relatively few companies solely involved in arms production in the county as for the majority of companies defence sales are a minor segment of their total sales. Nevertheless, there are some companies that they have experienced an increase in their arms sales over the past few years.



Source: https://www.sipri.org/databases/armsindustry

Rheinmetall and Krauss-Maffei Wegmann are two of these companies. According to the SIPRI database of the Top 100 arms-producing and military services companies in the world, in 2014 military sales of Rheinmetall and Krauss-Maffei Wegman represented 48% and 95% of their total sales respectively. On the contrary Thyssen-Krupp's arms' sales represented only 3% of its total sales.



Krauss-Maffei Wegmann (KMV) is one of the leading companies in Europe for highly protected wheeled and tracked vehicles. The armed forces of more than 50 nations worldwide rely on tactical systems developed by KMW. The diverse products' portfolio of KMV includes among others highly protected wheeled vehicles reconnaissance, anti-aircraft and artillery systems, Main Battle Tanks (MBTs), Infantry Fighting Vehicles (IFVs) and bridge-laying systems. On the other hand Rheinmetall's products' portfolio includes vehicles, force protection and weapon systems, infantry equipment, air defence, network-enabled warfare capabilities, electro-optics and simulation technology. Finally, Thyssen-Krupp, mainly develops ships, submarines and related equipment. Thyssen-Krupp submarines were sold to several countries such as Israel, South Korea, Turkey and Greece.

The aerospace sector of the German A&D industry performed rather well in 2015 as total sales reached an all-time high of 34.7 billion Euros (sales in 2014 was 32.1 billion Euros). Additionally, some 106,800 workers were directly employed in the aerospace industry. It is also worth mentioning that the industry's investments in Research and Development (R&D) reached 4.2 billion Euros.

Regarding the civil aviation segment of the German aerospace industry sales rose by 11% compared to 2014, reaching 25.3 billion representing 73% of the aerospace industry sales. The 75,000 people working in civil aviation represent a small increase in personnel of about 1%. Sales on the military aviation industry rose by 3% reaching 6.8 billion, while 23000 are employed in this sector. Finally, the space sector of the German aerospace industry generated sales revenues of 2.5 billion and provided jobs to 8500 people.

As it is already mentioned, being able to count on a reliable and capable A&D industry, is of outmost important for Germany, as it is essential for the armed forces to be equipped with a modern inventory, which will enable them to fulfil the task they are charged with in the modern battlefield. In order to achieve this federal government will allocate around 152

million euros promoting research in the aerospace sector during 2017. More on that up to 134 million euros will be provided over the next few years in funding new research projects for civil aviation, while 1.42 billion euros is available for space research (from this amount 755 million euros is the budget for international cooperation within the European Space Agency (ESA)) in 2017.

Finally, it is worth mentioning that Germany is leaning towards the integration of its defence strategy with that of EU and NATO. In the White Paper published in 2016, Germany calls for a common build-up and expansion of capabilities in Europe with the goal of achieving an interoperable, coherent and comprehensive set of European military defence assets. The initial priorities of such a policy will be the establishment of a common "inventory" of UAVs, air-to-air refuelling assets, satellite communication, cyber protection, and cyber defence.

Under the context of this broad consolidation of the EU's defence industry Nexter Systems and Krauss-Maffei Wegmann (KMW) have completed their association on 15 December 2015. As a result, two of the leading European manufacturers of military land systems will operate jointly under the umbrella of a holding company under Dutch law with headquarters in Amsterdam.

In past years, Germany participated in several common development programmes such as the Eurofighter Typhoon fighter plane, which is a collaborative effort of UK, Germany, Italy and Spain. More on that Germany has taken part in several projects of the Organisation for Joint Armament Cooperation (OCCAR) such as the A400M, the Tiger helicopters and the Boxer 8x8 all terrain heavily-armoured utility vehicle, a program jointly developed by Netherlands and Germany. The success of the program was further reinforced, when Lithuania joined it in August 2016 with the intention to procure 88 BOXER in an Infantry Fighting Vehicle version.

Kyriazis Vasileios

Epicos Newsletter Head Editor

Epicos "Industrial Cooperation and Offset Projects"

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…

For Further Information Press Here

Fabrication of production tooling for defense plastic and/or stamped metallic parts manufacturing

A company with significant experience in the production of high quality tooling for plastic parts manufacturing for the automotive and consumer goods industries is proposing the collaboration for the production of metallic tooling for defense equipment parts. More specifically, it calls for cooperation in the production of moulds for manufacturing plastic components and/or of stamping dies (press tools) for fabrication of metallic stamped parts.

For Further Information Contact our ICO Department

Mail at: a-kintis@epicos.com

Production of electromechanical parts and actuators for the aerospace and defence industry

A company with extensive experience in the manufacturing of high-precision measuring systems and the design and development of electromechanical equipment for different markets, is proposing collaboration with a Prime contractor or a third party for the subcontracting of electromechanical parts and actuators for the aerospace and defence industry.

For Further Information Contact our ICO Department

Mail at: a-kintis@epicos.com

BAE Systems to Provide Upgraded Self-Propelled Howitzers to Brazilian Army

BAE Systems has been awarded a $54 million contract to provide 32 upgraded M109A5+ self-propelled howitzers to the Brazilian Army. This upgrade will significantly enhance the Army's artillery capabilities and build upon the company's strong customer relationships in Brazil. "This contract is a great example of the strong relationship developed with the Army over many years and our close cooperation with the Brazilian military," said Dean Medland, vice president of Programs at BAE Systems' Combat Vehicles business. "We look forward to continuing to support Brazil's objectives of transferring technological know-how, participation, and the development of local industry, as well as the adaptation of solutions to Brazilian requirements."

Under the terms of the Foreign Military Sales contract, BAE Systems will overhaul and upgrade 32 self-propelled howitzers to the M109A5+ configuration. The vehicles will include items specifically tailored to the Brazilian Army's requirements. In addition, the company will provide spares and training as well as live fire support and field service support following delivery.

The M109A5+ provides an increase in capabilities by digitizing the fire mission sequence. The addition of the position and navigation system, commander's display unit, digital capable radios, weapons control system, and remotely actuated travel lock improve the time from receipt of mission to the firing of the mission by more than 80 percent over previous variants.

Work on the contract will take place at BAE Systems' Anniston, Alabama and York, Pennsylvania facilities. Production is anticipated to begin in October with vehicle deliveries beginning in 2018. Final deliveries and the beginning of training and support in Brazil are expected to take place by the end of 2018.

"BAE Systems has been working with the Brazilian Army at their Parque 5 facility in Curitiba, Brazil for four years on the Army's upgrade of its M113B vehicles to the M113A2 Mk1 configuration," said Marco Caffe, General Manager Brazil. "Through this relationship, the company has delivered over 150 upgraded vehicles and is now working on the second round of upgrading 236 additional M113B vehicles."

For Further Information Click Here

Lufthansa Technik and MTU Aero Engines exploring setting up a joint maintenance company

Lufthansa Technik and MTU Aero Engines are looking into options to jointly provide maintenance, repair and overhaul (MRO) services for the PW1000G family of geared turbofan engines. The two companies have signed a memorandum of understanding to explore the possibility of establishing an MRO joint venture at a globally competitive location. First decisions will be made by the end of the year.

The joint venture could handle a substantial amount of GTF shop visits already in the first few years of business. In the industry's highly cost-competitive environment, the objective of setting up a joint facility is to generate opportunities for synergy and scale for both companies.

Lufthansa Technik has been maintaining various Pratt & Whitney engine types for decades. Just recently, in July, Lufthansa Technik became a member of the aftersales service network for the U.S. company's geared turbofan (GTF) engines. The network offers the whole range of MRO services for PW1000G engines.

With Lufthansa being the first airline to put a GTF–powered jet into commercial service, Lufthansa Technik is excellently positioned as an MRO services provider for GTF engine operators. The move will not affect the further development of LHT's existing facilities.

MTU Aero Engines is a partner of Pratt & Whitney in the PW1000G program; the engines have been selected as the propulsion systems for new aircraft programs launched by five different aircraft manufacturers. To date, airlines around the world have ordered about 8,200 of the engines incorporating geared turbofan technology to modernize their fleets. Over the coming decade, the high-volume engine program will contribute substantially to MTU Maintenance's revenues. Thanks to MTU's broad portfolio of other engines, the existing facilities will have a sufficient workload also in the years to come.

The two companies have been partnering in a successful, 50/50 joint venture in Malaysia since 2003. Airfoil Services Sdn. Bhd. (ASSB) near Kuala Lumpur specializes in the repair of low-pressure turbine and high-pressure compressor airfoils.

About Lufthansa Technik

The Lufthansa Technik Group, with more than 30 subsidiaries and associates and over 25,000 employees worldwide, is one of the leading providers of technical services for the aviation industry. Its portfolio encom-passes the entire spectrum of services for commercial aircraft: maintenance, repair, overhaul, modification and conversion, engines and components.

About MTU Aero Engines

MTU Aero Engines AG is Germany's leading engine manufacturer. Some 30 percent of today's active aircraft in service worldwide have MTU components on board. In the commercial maintenance sector the company ranks among the top 5 service providers for commercial aircraft engines and industrial gas turbines. The activities are combined under the roof of MTU Maintenance. MTU operates a network of locations around the globe. In fiscal 2015, the company had a workforce of some 9,000 employees and posted consolidated sales of approximately 4.4 billion euros.

For Further Information Click Here

Epicos NewsRoom

Leidos Wins $777M GSA Contract for Army Geospatial Mapping Program

Leidos will support the Army Geospatial Center's (AGC) High-Resolution, 3-D (HR3D) Geospatial Information program through a prime contract from the General Services Administration (GSA). The single-award task order awarded under the GSA One Acquisition Solution for Integrated Services (OASIS) contract has a one-year base period of performance and includes four one-year options. If all options are exercised, the contract carries a total value of $777 million.

Under the contract, the Leidos team will collect, process, disseminate, store and maintain HR3D geospatial information. Leidos will conduct airborne and terrestrial collection operations, process the information and produce geospatial products needed over operationally relevant areas. In the collection process, Leidos will also integrate advanced Light Detection and Ranging (LIDAR) sensor technology from a higher altitude using a higher velocity aircraft platform. KEYW Corporation, Tenax TM LLC., Neany Inc., Sigma Space Corp., OG Systems LLC., Pixia Corp. and Woolpert Inc. are teaming with Leidos to provide the cost-effective solutions and capabilities for the AGC program.

Insufficient unclassified HR3D geospatial information also limits the ability of the U.S. to adequately engage other nations in expanding their capabilities and working towards a sustainable, secure environment. The AGC program will address this critical gap for high-resolution mapping products covering the majority of the undeveloped world. "Leidos has a long history of directly supporting U.S. Army warfighters through vital airborne programs," said Roger A. Krone, Leidos' Chairman and Chief Executive Officer. "Our team is excited to continue that support using advanced technologies to produce critical mapping products."

"The selection of the Leidos team on this contract solidifies our standing as leaders in airborne capabilities," said John Fratamico, president of the Leidos Advanced Solutions Group. "We remain dedicated to supporting our customer and providing cost-effective, advanced technology solutions to meet the DoD's mission requirements."

About Leidos

Leidos is a global science and technology solutions leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 33,000 employees support vital missions for government and commercial customers. Headquartered in Reston, Virginia, Leidos reported pro forma annual revenues of approximately $10 billion for the fiscal year ended Jan. 1, 2016 after giving effect to the recently completed combination of Leidos with Lockheed Martin's Information Systems & Global Solutions business (IS&GS). For more information, visit www.Leidos.com.

Source: Epicos, Leidos

Cobham Awarded Contracts for F-35 Microelectronics

Cobham recently received a series of orders worth tens of millions of dollars for radio frequency (RF) microelectronics that support the F-35 program. The work will be performed by the San Diego, California location of Cobham Microelectronic Solutions, part of the Cobham Advanced Electronics Solutions sector.

"Our portfolio of microelectronic components and assemblies enable electronic warfare (EW) and radar system sensitivity, helping pilots achieve mission success by maintaining situational awareness and staying safe," said Jill Kale, President of Cobham Advanced Electronic Solutions. "We are proud to continue to support F-35 customers around the world through successful program execution and affordability initiatives."

More than 100 Cobham components are on board every F-35 Lightning II, including microelectronic components, microwave systems, motion control solutions for the Electro-optical Targeting System (EOTS) gimbal, communications chips, pilot survival products and aerial refueling equipment.

Cobham Advanced Electronic Solutions' airborne offerings include high reliability and RF microelectronic components, integrated assemblies modules and subsystems, antenna and jammer solutions, as well as positioner and gimbal solutions and can be found on many platforms deployed throughout the world.
About Cobham Advanced Electronic Solutions

We provide critical solutions on land, at sea, and in the air and space, by moving data through off-the-shelf and customized products and subsystems including RF, microwave, and high reliability microelectronics, antenna apertures and motion control solutions.

Cobham Advanced Electronic Solutions supplies defense, aerospace, security, medical, and industrial markets.

About Cobham

Cobham is a leading global technology and services innovator, respected for providing solutions to the most challenging problems, from deep space to the depths of the ocean. We employ more than 11,500 people on five continents, and have customers and partners in over 100 countries, with market leading positions in: wireless, audio, video and data communications, including satellite communications; defense electronics; air-to-air refueling; aviation services; life support and mission equipment.

For Further Information Click Here

Source: Epicos, Cobham

The Government of Egypt – 8 Sentinel AN/MPQ-64F1 Radars and Related Equipment and Support

The State Department has made a determination approving a possible Foreign Military Sale to Egypt for Sentinel AN/MPQ-64F1 Radars and related equipment, training, and support. The estimated cost is $70 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale on September 16, 2016.

The Government of Egypt has requested a possible sale of eight (8) Sentinel AN/MPQ-64F1 Radars and software and training, as well as spares and support equipment, technical manuals, Single Channel Ground and Airborne Radio System (SINCGARS) VRC-92E Radios, 16 High Mobility Multipurpose Wheeled Vehicles (HMMWV) Ml 152 with Shelter Carrier Kit, U.S. Government and contractor support, training and other associated support, equipment and services. The total estimated value of MDE is $40 million. The total overall estimated cost is $70 million.

This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a strategic partner that has been and continues to be an important force for political stability and economic progress in the Middle East.

The Government of Egypt intends to expand its existing air defense architecture to counter threats posed by air attack. This will contribute to Egypt's military goal of updating its capabilities while further enhancing interoperability among Egypt, the United States, and other allies. Egypt will have no difficulty absorbing this equipment into its armed forces.
The proposed sale of this equipment and support will not alter the basic military balance in the region.

The principal contractor involved in this program is Thales Raytheon Systems, Fullerton, California. There are no known offset agreements proposed in connection with this potential sale. Implementation of this proposed sale will require ten (10) U.S. Government or contractor representatives to travel to Egypt for a period of 8 weeks for equipment checkout and training.

There will be no adverse impact on U.S. defense readiness as a result of this proposed sale.

This notice of a potential sale is required by law and does not mean the sale has been concluded.

All questions regarding this proposed Foreign Military Sale should be directed to the State Department's Bureau of Political Military Affairs, Office of Congressional and Public Affairs, pm-cpa@state.gov.

For Further Information Click Here

Source: Defense Security Cooperation Agency

Honeywell Spectra Shield® Ballistic Materials Help Protect Military and Law Enforcement in Asia Pacific

Honeywell announced today its Honeywell Spectra Shield® ballistic composite materials will be used to protect soldiers and law enforcement officers serving across the Asia Pacific region.

Craig International Ballistics (CIB), the leading Australian manufacturer of combat-proven body armor systems, is leveraging Spectra Shield technology to provide next-generation ballistic protection for vests and armor plates. CIB will manufacture approximately 20,000 sets of body armor for use in training and combat operations. CIB will also use next-generation Spectra Shield products for its R&D efforts.

"Our cutting edge research and development team is committed to producing innovative, operationally useful equipment," said James Craig, CEO of Craig International Ballistics. "We are excited to partner with Honeywell to use state-of-the-art Spectra Shield composites to help protect the brave men and women from the Asia Pacific region who are serving in the military and law enforcement."

The use of Spectra Shield allows the body armor worn by personnel to be lightweight, flexible and bullet-resistant. It also improves mobility and comfort, reduces trauma and increases survivability. Vests containing Honeywell ballistic materials are up to 10 percent lighter than vests made from woven products, yet meet the same ballistic performance levels. Combined with CIB designs, which enable the armor to be tailorable, this new product suite provides unique protection against a range of potential threats.

"Militaries and law enforcement officers around the world use Honeywell Spectra Shield® composite materials for breakthrough armor systems that consistently meet some of the highest global performance standards for protection," said Tim Swinger, business director for armor at Honeywell Packaging and Composites. "Pound for pound, Spectra is 15 times stronger than steel but is light enough to float. Honeywell is proud to work with innovative technology companies like Craig International Ballistics to support the creation of next-generation armor systems."

Spectra® fiber is made from ultra-high molecular weight polyethylene using a patented gel-spinning process. It has up to 60 percent greater strength than alternate aramid fiber. Spectra fiber is used to create Spectra Shield, an advanced ballistic-resistant material. Spectra Shield technology is a patented Honeywell process designed to optimize the ballistic performance characteristics of Spectra as well as aramid fiber.

Spectra Shield® products have been widely adopted and proven for the most advanced armor applications globally, from bullet-resistant vests, breast plates, and helmets, to combat vehicles and military aircraft where lightweight solutions and performance are critical.

Honeywell maintains an active Spectra fiber and ballistic materials research program focused on continuous improvement and development of high-performance materials. For more information about Spectra fiber, visit www.honeywell-spectra.com and check out this video.

Honeywell (www.honeywell.com) is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes, and industry; turbochargers; and performance materials. For more news and information on Honeywell, please visit www.honeywell.com/newsroom.

Source: Epicos, Honeywell

Saab Receives Order for RBS 70 NG

Defence and security company Saab have signed a contract on delivery of the new RBS 70 NG VSHORAD (very short range air defence system). The order has a total value of MSEK 378 and comprises supply and long-term maintenance and support of the RBS 70 NG, the latest version of the advanced Air Defence Missile System.

System deliveries will take place between 2018 and 2020, followed by long-term maintenance and support of the systems. “We are very proud of the confidence our customers place in the RBS 70 NG system and are satisfied to have been able to secure this order for the system,” says Görgen Johansson, Senior Vice President and Head of Business Area Dynamics.

The industry’s nature is such that depending on circumstances concerning the product and customer, further information regarding the customer will not be announced.

The core of RBS 70 NG is the new generation sight module with integrated high-resolution thermal imager that allows for an all-target capability both day and night. The RBS 70 NG also has an advanced cueing which improves reaction times and target acquisition. With the RBS 70 NG, Saab offers state-of-the art systems for demanding customers investing in 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