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Philippines: Defence Budget & Modernization Program

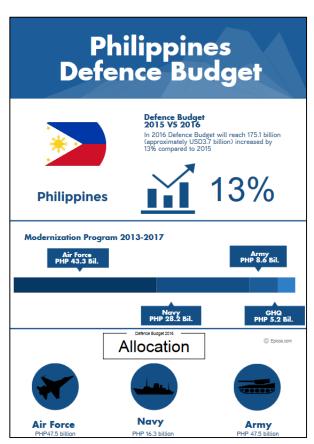




According to official estimations provided by the Department of Budget and Management, total defence spending will reach

Philippine Peso (PHP) 175.1 billion (approximately USD3.7 billion) in 2016, increased by 13% compared to 2015, when defence spending amounted to PHP 154.2 billion (approximately USD 3.3 billion). From this amount, The Philippine army will receive PHP 47.5 billion (approximately USD1 billion), the air force will receive PHP 16.4 billion (approximately USD 350.7 million), while the navy will receive PHP 16.3 billion (approximately USD 348.5 million). Additionally, the 2016 defence budget includes a record amount of PHP 25 billion (approximately USD 534 million) that will be allocated to the country's ongoing military modernization effort.

The modernization program for 2013-2017 has a total budget of PHP 85.3 billion (approximately USD 1.8 billion). From this amount PHP 8.6 billion (approximately USD 183.9 million) will be allocated to the Philippine army, PHP 43.3 billion (approximately USD 925.9



Source: http://www.dbm.gov.ph

million) to the air force, PHP 28.2 billion (approximately USD 603.1 million) to the navy, while PHP 5.2 billion (approximately USD 111.2 million) to the General Headquarters. The modernisation program, is partially driven by the ongoing territorial dispute with China in the South China Sea.

As of July 18, 2014 a total of thirty seven (37) projects were completed PHP 9.2 amounting to Billion (approximately USD 196.7 million). The core goals of the modernization are to enhance the armed forces organizational and operational capability by improving internal security and counter-terrorism capabilities including command, control, communications and computers (C4); mobility; firepower; intelligence,

surveillance and reconnaissance (ISR) and force protection/field medical

support. In 2014 the following deliveries were concluded: assault rifles for the Philippine Army (PA) and Philippine Marines, UH-1H helicopters for the Philippine Air Force (PAF), close combat optics, and Explosive Ordnance Disposal (EOD) equipment.

While in 2015, Philippine armed forces received armored vehicles, attack helicopters, combat utility helicopters, light lift and medium lift aircrafts and naval helicopters for the Philippine Navy (PN).

Additionally, in 2016, Philippines will receive USD 79 million in annual military aid from USA, up from about US\$50 million last year. The country will also receive an additional USD 42 million from the new US South-East Asia Maritime Initiative.

Kyriazis Vasileios, Epicos Newsletter Head Editor

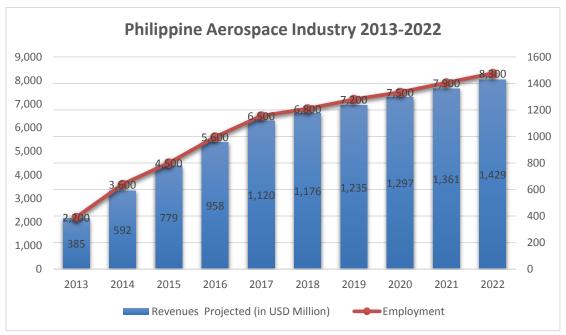
Philippines: Aerospace & Defence Industry





Philippine Aerospace and Defence (A&D) Industry is rather "embryonic" in terms of technological level. Nevertheless, the country has domestic capacity to produce small arms and ammunition, through the state company "Government Arsenal (GA)". Another part of the A&D industry which receives increased interest, is the aerospace sector. In 2014, the Aerospace Industry

Association of the Philippines (AIAP), published a roadmap indicating that the local aerospace industry is capable to generate up to \$10.3bn in cumulative revenues between 2013 and 2022. Additionally, AIAP projected that in 2022, the aerospace industry will employ approximately 8200 personnel.



Source: THE PHILIPPINE AEROSPACE INDUSTRIES ROADMAP

Currently, Philippine aerospace companies mainly provide primary and secondary flight controls for Boeing 787 and Airbus A350XWB and galley equipment.

Realising the importance aerospace sector may have in the development of the local economy, President Benigno Aquino stated in his October 2012 speech during the inauguration of the B/E aerospace facility in Tanuan: "This is an important project because it marks a new kind of manufacturing. We are moving up the value chain, and today marks the foothold we have secured in the aerospace supply sector."

In order to further enhance the technological level of the local defence industry Philippine authorities have promoted the creation of cooperative schemes with foreign partners. Under this context Asian Armoured Technologies Corporation (AATC) assembled under license provided by GKN defence Ltd. a number of Simba Armoured Personnel Carriers. Out of the 150 vehicles Philippine armed forces procured, eight were delivered in complete kit form, two in knocked-down kit form, and the remainder were assembled in Philippines by AATC. The company started with the assembly of kits, progressed to importing some parts and manufacturing others, and finished up producing the whole vehicle.

Philippine armed forces have to procure the biggest part of their equipment from foreign suppliers. Through this process the country seeks to boost its domestic military industrial capabilities (mainly through offsets/IC). If this process is successfully implemented the local defence industry can be further developed in order to offer employment opportunities and to improve the low level of Philippine technological expertise.

Towards this direction, Philippines should intensify its R&D efforts and to link them with commercial opportunities as well as with the needs of the local armed forces, as well as to invest in integrating systems from diverse sources and tailoring them to specific local requirements.

Kyriazis Vasileios, Epicos Newsletter Head Editor

Epicos "Industrial Cooperation and Offset Projects"

epicos.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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Customised actuators for best possible control of movement for new generation all terrain **UGV (Unmanned Ground Vehicle) systems and unattended sensors**



A company with extensive experience in designing and manufacturing precision actuators is proposing implementation of existing technology to new generation UGV systems and unattended sensors. The proposed solution includes the initial customised design of automatic actuators, motor, sensor control electronics, as well as field bus solutions for the UGV designs.

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

Development of all-composite cab and/or vehicle body components for existing or future military ground vehicles



A leading company in the development manufacturing of composite products for ballistic protection is proposing the development of a new all-composite cabin for future or existing wheeled and tracked military vehicles. In addition, or alternatively,

the company is proposing the incorporation of composite vehicle body components and parts in existing or future vehicle frames. Apart from weight reduction and the associated benefits (quicker response, less fuel required, potential for additional cargo etc), the incorporation of a composite vehicle superstructure will allow for the integration of other important features, like increased personnel protection.

For Further Information Contact our ICO Department

Mail at: a-kintis@epicos.com

News from our A&D Business Network

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LEONARDO-FINMECCANICA: Pakistan Selects the AW139 for SAR Role



that Government of Pakistan has signed a contract for an undisclosed number of AgustaWestland AW139 intermediate twin engine helicopters. The signing was held in Islamabad in presence of the H.E. Italian Ambassador Stefano Pontecorvo. The contract is part of a fleet renewal programme spread over several batches including a logistic support and training

package. The AW139s, deliveries of which are expected in

2017, will be used to perform search and rescue across the

Leonardo-Finmeccanica announced today

nation.

This contract marks a significant achievement for Leonardo-Finmeccanica in Pakistan, further expanding the already successful presence of the AW139 helicopter in-country. A total of 11 AW139s are already in service in Pakistan, with 5 aircraft operated for Government relief and transportation duties.

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Boeing, Vietjet Finalize Vietnam's Largest Ever Commercial Airplane Purchase



VietJet Aviation Joint Stock Company and Boeing have finalized an order for 100 737 MAX 200 airplanes, the largest ever single commercial airplane purchase in Vietnam aviation. His Excellency Mr. Tran Dai Quang, President of the Socialist Republic of Vietnam, and U.S. President Barack Obama, witnessed the historic

agreement, valued at approximately \$11.3 billion at current list prices.

The signing ceremony, conducted by Vietjet President and CEO Nguyễn Thị Phương Thảo and Boeing Commercial Airplanes President and CEO Ray Conner, took place at the Presidential Palace in Hanoi, at approximately 11:40 a.m. local time. "Vietjet is efficiently operating a fleet of narrow body airplanes. Our investment in a fleet of B737 Max 200 will accommodate our strategy of growing Vietjet's coming international route network including long haul flights," said Madam Nguyễn Thị Phương Thảo during the signing. "Through this agreement, Vietjet will contribute increasing bilateral trade turnover between Vietnam and the United States, as well as the integration and development of the aviation industry in Vietnam."

The airplanes will be delivered from 2019 through 2023, supporting Vietjet's continuous growth of its domestic as well as international network in the region. This agreement also helps Vietjet to increase its fleet to more than 200 airplanes by the end 2023, with the most modern and advanced technology in the world.

"Boeing is proud to again play an integral role in advancing Vietnam's aviation industry. We're honored to be joined by President Quang and President Obama for this historic milestone and order of 100 737 MAX 200 airplanes," said Conner. "Incorporating the latest design and technology features, the highly efficient 737 MAX 200 will provide Vietjet's growing network with market-leading economics, a superior passenger experience and contribute significantly to their future success."

The 737 MAX incorporates the latest technology CFM International LEAP-1B engines, Advanced Technology winglets and other improvements to deliver the highest efficiency, reliability and passenger comfort in the single-aisle market. The new single-aisle airplane will deliver 20 percent lower fuel use than the first Next-Generation 737s and the lowest operating costs in its class – 8 percent per seat less than its nearest competitor. To date, the 737 MAX has accumulated 3,098 orders from 65 customers around the world.

About Vietjet

Vietjet is the first airline in Vietnam to operate as a new-age airline with low-cost and diversified services to meet customers' demands. It provides not only transport services but

also uses the latest e-commerce technologies to offer various products and services for consumers. The airline recently won IOSA Certification from the International Air Transport Association (IATA) after just over three years of operations. Vietjet was also declared "Best Asian Low Cost Carrier" at the TTG Travel Awards 2015, which compiles votes from travelers, travel agencies and tour operators in Asia. The airline was also rated as one of the top three fastest growing airline brands on Facebook in the world by Socialbakers and the most favorite airline in Vietnam in 2015. Currently, the airline operates more than 250 flights each day. It has already operated 50 routes in Vietnam and across the region to international destinations such as Thailand, Singapore, South Korea, Taiwan, China, Myanmar and Malaysia. It has carried approximately 25 million passengers to date. Looking ahead, the airline plans to expand its network across the region. To prepare for this plan, Vietjet has signed agreements with the world's leading aircraft-manufacturers to purchase more brandnew and modern aircraft.

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About The Boeing Company

Boeing is the world's largest aerospace company and leading manufacturer of commercial jetliners and defense, space and security systems and also provides numerous commercial airline and military support services. Boeing has been the premier manufacturer of commercial jetliners for decades, and with its long tradition of aerospace leadership and innovation, continues to expand its product line and services to meet emerging customer needs. Boeing provides products and support services to customers in more than 150 countries and is one of the largest U.S. exporters in terms of sales. With corporate offices in Chicago, Boeing employs approximately 160,000 people across the United States and in more than 65 countries. Learn more at www.boeing.com.

Contacts: Nguyễn Thu Thúy (Ms.)

Vietjet

Joanna Pickup +84 989386379

International Communications thuynguyen@vietjetair.com

Boeing Commercial Airplanes

+1 425-879-6077 Nguyễn Thanh Tùng (Mr) joanna.pickup@boeing.com Vietjet

+84 932629858 tungnguyenthanh@vietjetair.com

Epicos NewsRoom



NASA Increases Harris Corporation Space Communications Network Services Contra Ceiling by \$384 Million

NASA has awarded Harris Corporation two 1-year options, adding \$384 million of contract ceiling, to continue supporting the Space Communications Network Services (SCNS) program. The award was received during the third quarter of Harris' fiscal 2016.

Harris will continue to support SCNS, which provides most of the communications and tracking services for a wide range of Earth-orbiting spacecraft, such as the International Space Station, the Hubble Space Telescope and Earth Observing System satellites.

As prime contractor for SCNS, Harris also provided communications support to NASA's successful Orion Exploration Flight Test-1 Mission in December 2015, which marked a critical step in NASA's return to human space exploration.

"This award reflects our continued successful performance and reaffirms that Harris can deliver the comprehensive engineering and management support required for this flagship program, which supports a new era of space exploration," said Carl D'Alessandro, president, Harris Critical Networks.

About Harris Corporation

Harris Corporation is a leading technology innovator, solving our customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports customers in more than 125 countries, has approximately \$8 billion in annual revenue and 22,000 employees worldwide. The company is organized into four business segments: Communication Systems, Space and Intelligence Systems, Electronic Systems, and Critical Networks. Learn more at harris.com.

Contact Information:

Sleighton Meyer Harris Critical Networks sleighton.meyer@harris.com 321-309-5050

Jim Burke
Harris Corporation
jim.burke@harris.com
321-727-9131

For Further Information Click Here

Source: Epicos, Harris Corporation

Special Focus: Philippines

Epicos 2016

DRS Technologies and Roboteam Form Strategic Partnership for U.S. Army E.O.D. Robotics

Opportunity

DRS Technologies Inc., a Leonardo-Finmeccanica Company, announced today that it has signed a strategic teaming agreement with Roboteam Ltd. to develop a solution for the U.S.

Army's emerging Common Robotic System – Individual (CRS-I) program.

This alliance combines Roboteam's technologies and expertise in military robotics with DRS's

market presence, customer awareness, platform systems engineering, and production

capabilities.

"We are excited to work with Roboteam to offer our customer a world-class robotic solution

that provides dismounted troops with a superior capability to detect and mitigate threats,"

said Joseph Matteoni, vice president and general manager of DRS Sustainment Systems, Inc.

The CRS-I will provide the dismounted warfighter with the capability to conduct lower-level

reconnaissance, surveillance, and target acquisition; to remotely perform chemical, biological, radiological and nuclear detection; to remotely clear danger areas and conduct

explosive obstacle counter measure operations; and conduct explosive ordnance disposal

operations from a standoff distance.

About Roboteam

Roboteam designs, develops and manufactures cutting edge, user-oriented, multipurpose

unmanned platforms and controllers for defense, law enforcement and public safety

missions. The company was recently awarded a U.S. Air Force contract to provide up to 250

of its anti-IED Micro Tactical Ground Robots (MTGR) through 2022. The company is a wholly owned subsidiary of Roboteam Ltd. Based in Tel Aviv, Israel.

About DRS Technologies

DRS Technologies is a leading supplier of integrated products, services and support to

military forces, intelligence agencies and prime contractors worldwide and is a two-time recipient of the Defense Security Service Award for Excellence in Counterintelligence as well

as three James S. Cogswell Awards for Outstanding Industrial Security Achievement. The

company is a wholly owned subsidiary of Finmeccanica SpA, which employs more than

47,000 people worldwide.

For Further Information Click Here

Source: Epicos, DRS Technologies

Specialist centre to support aircraft carriers takes shape

A new centre containing facilities to support the new Queen Elizabeth Class aircraft carriers is nearing completion at Portsmouth Naval Base.

The Queen Elizabeth Class Centre of Specialisation will cover an area of 70,000 square metres – approximately the size of 10 football pitches. It will include a 7,000 square metre Forward Support Centre able to hold 15,000 pallets of medical, mail and naval stores under one roof, a café seating more than 500 people at any one time and a reception centre for all those working on or visiting the carriers.

The centre will house employees of Team Portsmouth, a partnership between the Ministry of Defence and BAE Systems, with engineers, logisticians and waterfront staff working alongside each other to plan and deliver the maintenance for these ships.

Mike Howarth, Managing Director for BAE Systems Maritime Services in Portsmouth, said: "At 65,000 tonnes the new carriers are the largest and most complex naval ships built in the UK. It's essential that they have high quality facilities and highly skilled people to support them.

"This centre will be the home not just for the carriers; it will also be home for the military and civilian people who support them. With improvements to the jetty and construction of a high voltage power station already in its final stages, you can now see that we are well on the way to being ready for HMS Queen Elizabeth's arrival next year."

Commodore Jeremy Rigby, Naval Base Commander, said: "The work on the Queen Elizabeth Class centre is yet another tangible milestone in getting the Naval Base ready to support our new aircraft carriers. A huge amount of activity is in train ashore and in the harbour to make sure we are ready to receive HMS Queen Elizabeth.

"These are exciting times for the Naval Base and the wider Portsmouth area as we prepare for these huge ships which have secured the future of the base for the rest of the century.

"BAE Systems is working in partnership with the Royal Navy under the Team Portsmouth banner to improve the QE Class Ships' Company experience that the carrier's crew will receive at the waterfront and provide the resources, information, material and facilities they will need in Portsmouth and on operations around the world."

Mark Lancaster, Minister for Defence Personnel and Veterans, was at Portsmouth Naval Base to see the progress on the infrastructure works.

He said: "This new Centre of Specialisation will ensure that our highly skilled engineers, logisticians and waterfront staff are well supported, and have the facilities they need as Portsmouth becomes the home of the Queen Elizabeth Class Carriers next year.

"Our £100 million investment in the naval base and the arrival of the carriers will support and sustain thousands of jobs across the region."

The creation of a dedicated area for the carriers forms part of the overall vision for Portsmouth Naval Base – four dedicated areas to support the ships based ships. The first of these dedicated areas was opened in 2015 as the Centre of Specialisation for Frigates and Destroyers, while work began on minehunter HMS Brocklesby in the new Small Ships Centre of Specialisation in early May.

For Further Information Click Here

Source: Epicos, BAE Systems

Air Hamburg orders one more Embraer Legacy 650 business jetAir Hamburg orders one more Embraer Legacy 650 business jet

Embraer Executive Jets and the Germany-based business charter operator Air Hamburg have signed a purchase agreement for yet another Legacy 650. The agreement was announced today at the opening of the 16th European Business Aviation Convention and Exhibition (EBACE) in Geneva, Switzerland. The delivery of this aircraft is scheduled for the third quarter of 2016.

This new acquisition brings to nine the total of Embraer business jets in Air Hamburg's fleet, currently comprised of seven Legacy 600/650 and one Phenom 300, which serve its customers' travels to European, Russian and Middle Eastern destinations.

"We believe that customer loyalty is earned by ensuring their total satisfaction, and by building strong and enduring relationships. Partnerships are established based on real commitment, and we are pleased to support Air Hamburg's continuous growth," said Marco Túlio Pellegrini, President & CEO, Embraer Executive Jets. "We understand that executive jets are powerful tools for successful decision makers worldwide, who value speed, flexibility, efficiency, and productivity in their daily business relations as well as for leisure travel with their family. The Legacy 650 offers all these values, including an outstanding cabin comfort based on a proven platform with over 25 million hours flown."

"Our customers have been consistently pleased with the superior and unparalleled Legacy 600/650 flight experience. By offering three distinct cabin zones, with the largest cabin and baggage compartment in their classes, these aircraft combine everything we need to meet our unwavering commitment to offer best-in-class services," said Simon Ebert, Partner, Air Hamburg. "Embraer business jets' great reliability is also fundamental for our growth strategy as well as to keeping our round-the-clock service available every day of the year."

About Air Hamburg

Air Hamburg was established in 2006 by the young entrepreneurs Floris Helmers and Alexander Lipsky, after managing their Hamburg based flight school Flugschule Hamburg since 2001. A personal touch expressed by the slogan "Simply Personal" is the trademark of the aviation school and the airline. Both founders can still be found working as instructors and pilots.

Air Hamburg is focused on the following mission as basis for further expansion: Youngest fleet, no owners' approval, and 100% crewed aircraft guarantee highest availability. The airline with 20 business jets generated a turnover in 2015 of EUR 72 million, with 200 employees.

The 20 jets with open base are available for flexible flights, 365 days a year, 24/7 due to a Dispatch and Sales team working in 3 shifts around the clock. The cockpit crews are simulator trained and fully customer minded. In the cabin, the highest level of service and catering can be guaranteed due to well-trained cabin service representatives.

For more information concerning the AIR HAMBURG group, please visit: www.air-hamburg.com

About the Legacy 650

The large Legacy 650 comfortably carries up to 14 passengers with privacy in three distinct cabin zones, and premium acoustic comfort. In addition to the best-in-class galley and a fully accessible in-flight baggage compartment that surpasses in size even those of most ultralong range business jets, the aircraft may be configured with up to two lavatories. The Legacy 650 features internet connectivity and the latest generation in full HD in-flight entertainment, with Honeywell's Ovation Select entertainment and cabin management system.

The Legacy 650 features advanced navigation capabilities and the Honeywell Primus Elite™ avionics suite. The Legacy 650 has a range of 3,900 nautical miles (7,223 kilometers) with four passengers, with NBAA IFR fuel reserves, which means that the aircraft can fly nonstop from Geneva, Switzerland to Boston, United States, or Mumbai, India.

About Embraer Executive Jets

Embraer is one of the world's leading executive jet manufacturers, having entered the business aviation market in 2000 with the Legacy jet, which led to the launch of Embraer Executive Jets in 2005. Its portfolio, the broadest in the market, consists of the entry-level Phenom 100E and the Phenom 300 light jet, the Legacy 500 midsize and Legacy 450 midlight, the super midsize Legacy 600 and large Legacy 650, and the ultra-large Lineage 1000E. With more than ten years in the market, Embraer Executive Jets' global fleet exceeds 1,000 aircraft, which are in operation in more than 60 countries and are supported by the

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Epicos 2016

Company's global Customer Support and Services network of 75 owned and authorized service centers, complemented by a 24/7 Contact Center, at its headquarters, in Brazil. For more information, please visit www.embraerexecutivejets.com.

Source: Epicos, Embraer

Embraer-CAE Training Services to launch Phenom 100 and 300 jet training in Amsterdam

Embraer-CAE Training Services (ECTS), a joint venture between Embraer and CAE, announced today at the 2016 European Business Aviation Convention & Exhibition (EBACE) that it will further expand its training programs for Embraer Phenom 100 and Phenom 300 pilots and maintenance technicians through the addition of a new location at CAE's training centre in Amsterdam.

The training program will feature a CAE-built full-flight simulator (FFS), equipped with a Garmin Prodigy-Touch avionics system, and is expected to be ready for training in the first quarter of 2018. "This addition to our services network reflects the growing number of operators in Europe and our commitment to delivering world-class training to our customers close to home," said Marco Tulio Pellegrini, President & CEO Embraer Executive Jets. "Our training program is based on a highly personalized level of service and Amsterdam is a convenient city that will provide our European Phenom jets operators the customer experience that is the cornerstone of our program."

The suitability of the Phenom jets fulfills all of business aviation's requirements, such as fractional ownership, charter, owner-pilot, corporate use, pilot training or employee shuttle. As of today, a fleet of more than 650 Phenom jets is currently in operation worldwide. Since 2010, the Phenom 300 has also accumulated the most deliveries in its class and for the past three years has been the most delivered business jet in the world.

"We are delighted to expand our relationship with Embraer and leverage CAE's worldwide training footprint," said Nick Leontidis, Group President, Civil Aviation Training Solutions. "The launch of this additional Phenom 100 and 300 jet training program is a testament to CAE and Embraer's true partnership approach."

The new ECTS training in Amsterdam complements existing training locations in Dallas, Texas in the United States, and São Paulo in Brazil.

About Embraer Executive Jets

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About CAE

CAE is a global leader in the delivery of training for the civil aviation, defence and security, and healthcare markets. We design and integrate the industry's most comprehensive training solutions, anchored by the knowledge and expertise of our 8,000 employees, our world-leading simulation technologies and a track record of service and technology innovation spanning seven decades. Our global presence is the broadest in the industry, with 160 sites and training locations in 35 countries, including our joint venture operations, and the world's largest installed base of flight simulators. Each year, we train more than 120,000 civil and defence crewmembers, as well as thousands of healthcare professionals. www.cae.com

Source: Epicos, CAE