

Part I: Pakistan

1. **Pakistan: Defence Budget and Procurements**
2. **Pakistan: Defence Industry, Indigenous Capabilities and Companies**
3. **Epicos “Industrial Cooperation and Offset Projects”**
4. **Climbing training simulator for special operations forces**
5. **Manufacturing of structural parts and subassemblies for the aerospace industry**
6. **News from our A&D Business Network**

Part II: Epicos Newsroom

1. **SAAB Receives Order for Upgrade of the Air Traffic Management for the Swedish Armed Forces**
2. **CYBERBIT, Elbit Systems' Subsidiary, Awarded Contracts Valued at an Approximately \$22 Million to Supply Intelligence and Cyber Systems to a Customer in Asia-Pacific**
3. **Boeing Sign First Contract for the AVIATOR S Product Family**
4. **Pilatus Sales Revenue Surpasses the One Billion Swiss Franc Mark for the Third Time**
5. **THALES and AIRBUS Defence and Space to Produce New Digital Maps for French Defence**

Pakistan: Defence Budget and Procurements

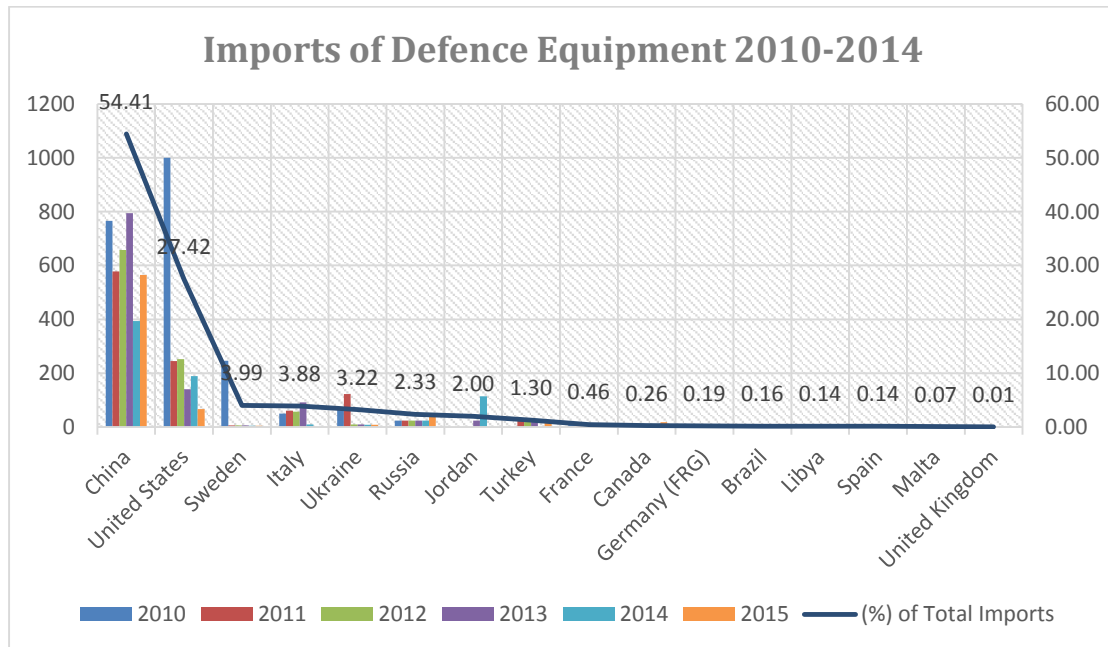


According to the Federal Budget 2015-16, Pakistan has increased defence spending by over 11% when compared to last year reaching approximately 781 Rs billion (7.5 billion US dollars). The double-digit increase is actually in

line with the increases the country experienced the previous years. From the 781 Rs billion (7.5 billion US dollars), 326 Rs billion (3.1 billion US dollars) will spent on personnel, while operating expenditures will reach 200 Rs billion (1.9 billion US dollars). Maintenance of infrastructure and construction of new buildings will account for 84 Rs billion (801.8 million US dollars), while Pakistani authorities will allocate approximately 170 Rs billion 1.6 billion US dollars) on the procurement of new equipment.

According to SIPRI three out of the five largest recipients of major weapons, were located in Asia & Oceania: India, China and Pakistan. More specifically, Pakistan spent in total 6899 US\$ m. at constant (1990) prices for the purchase of defence equipment, for the period 2010-2015.

China has a leading role in Pakistan’s armament imports. Apart from the Asian country, other countries that export arms to Pakistan, for the period 2010-2015, were USA, Sweden, Italy and Ukraine. It is important to state that USA and China accounted for some 81% of the country’s imports (China-54.4%, USA- 27.4%).



	2010	2011	2012	2013	2014	2015	2016
China	766	578	657	794	394	565	54.41
United States	1000	245	252	140	189	66	27.42
Sweden	246	6	6	6	5	5	3.99

Italy	50	60	57	91	10		3.88
Ukraine	66	122	10	10	8	8	3.22
Russia	24	24	24	24	24	40	2.33
Jordan				24	114		2.00
Turkey		22	22	22		24	1.30
France	8	6		13	4		0.46
Canada						18	0.26
Germany (FRG)	8			5			0.19
Brazil				4	4	4	0.16
Libya	10						0.14
Spain				10			0.14
Malta						5	0.07
United Kingdom				1			0.01

Source: <http://www.sipri.org>

Aircraft were the predominant area of imports for the period 2010-2015 with a total amount of 3184 US\$ m. at constant (1990) prices. The 2nd most important sector was that of missiles with 989 US\$ m. at constant (1990) prices whereas other areas such as armored vehicles, ships and air defence systems followed.

In 2015, Pakistan received 15 ScanEagle UAVs from USA with a total value of 30 million US dollars. The contract, processed via the Foreign Military Sales route. Additionally, Pakistan purchased 10 APG-68 Combat ac radar from USA, for the modernization of 10 F-16A combat aircraft to F-16C (F-16AM or F-16MLU).

Kyriazis Vasileios,

Epicos Newsletter Head Editor

Pakistan: Defence Industry, Indigenous Capabilities and Companies



Currently, in Pakistan, there are over twenty (20) major Public Sector Organizations and over one hundred (100) Private Sector firms engaged in the manufacturing of defence related products, which are internationally recognized for quality, reliability and competitive prices. Local defence industry is not only meeting the requirements of the Pakistani armed forces, but also exports defence products. In

order to facilitate export activity, the Defence Export Promotion Organisation (DEPO) was established. DEPO has also organised defence exhibitions, such as the International Defence Exhibition and Seminar (IDEAS), which was held for the first time in 2000.

Regarding ground forces, Pakistani defence industry offers a wide variety of defence related products. Tank Al Khalid is the latest cost effective achievement of the indigenous industry and can be compared with any modern tanks in the world. In addition, Tank Al-Zarrar and APC SAAD are two platforms that combine quality and cost efficiency. Below there is a list of the most significant entities active in the abovementioned industrial domain:

- Armament Research and Development Establishment (ARDE), Rawalpindi
- Global Industrial & Defence Solution (GIDS), Chaklala, Rawalpindi
- Integrated Defence Systems (IDS)
- Scientific Engineering & Technology Services (SETS)
- Institute of Industrial Control Systems (IICS)
- Al-Technique Corporation of Pakistan (ATCOP)
- Heavy Industries Taxila (HIT)
- Institute of Optronics (IOP), Rawalpindi
- Military Vehicle Research & Development Establishment (MVRDE), Rawalpindi
- National Radio Telecommunication Corporation (NRTC), Haripur, Hazara
- Pakistan Machine Tool Factory (PMTF), Karachi
- Pakistan Ordnance Factories (POF), Wah
- People Steel Mills Ltd, Karachi

In the naval sector PN Dockyard is appropriately equipped to meet the maintenance requirements of the Pakistani Fleet. Additionally, PN Dockyards, offer retrofitting of modern ships and submarines, thus providing cost effective maintenance to the Pakistani fleet units.

Additionally, Karachi Shipyard and Engineering Works (KS&EW) is the first Public Sector Organization who achieved ISO 9000 certification in 1996 and now is certified in ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007. Below there is a list of the most significant entities active in the shipbuilding industry:

- Global Industrial & Defence Solution (GIDS), Chaklala, Rawalpindi
- Marine Systems (Pvt) Ltd (MSL)
- Karachi Shipyard and Engineering Works (KS&EW), Karachi

Additionally it is worth mentioning that most of the Pakistan Air Force (PAF) requirements of MRO are met through Pakistan Aeronautical Complex (PAC) at Kamra. Moreover, the company in collaboration with other entities in and out of the country has developed the JF-

17 Thunder, Super Mushshak and K-8 aircraft. Below there is a list of the most significant entities active in the aircraft and related equipment industry:

- Global Industrial & Defence Solution (GIDS), Chaklala, Rawalpindi
- Advanced Engineering Research Organization (AERO)
- Integrated Defence Systems (IDS)
- Pakistan Aeronautical Complex (PAC), Kamra
- Precision Engineering Complex (PEC), Karachi

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](#)

Climbing training simulator for special operations forces



A company is proposing the development and installation of a complete climbing training simulator, to be used for simulating training on individual climbing skills and methods. The climbing training simulator will be used by Special Forces, as well as emergency rescue teams, supporting reliable and secure simulation of several different operational scenarios.

[For Further Information Contact our ICO Department](#)

Mail at: a-kintis@epicos.com

Manufacturing of structural parts and subassemblies for the aerospace industry



A company with extensive experience in the manufacturing of structures for the aeronautical sector is proposing the collaboration with a Prime contractor for the subcontracting of structural parts and subassemblies manufacturing for the aerospace industry.

[For Further Information Contact our ICO Department](#)

Mail at: a-kintis@epicos.com

News from our A&D Business Network

Kuwait Signs Contract for the Delivery of 28 Eurofighter Typhoons



The contract signature for 22 single-seat and six twin-seat follows the announcement of an agreement between the State of Kuwait and the Italian Government for the procurement of the aircraft on 11th September 2015. The aircraft will be of Tranche 3 standard and will be equipped with the E-Scan radar.

The contract confirms the State of Kuwait as the eighth customer in the programme and as the third customer in the Gulf Region next to the Kingdom of Saudi Arabia and the Sultanate of Oman.

Speaking on behalf of the consortium and its Eurofighter Partner Companies (EPC) the CEO of Eurofighter, Volker Paltzo, said: "We are delighted to officially welcome the State of Kuwait as a new member of the Eurofighter family.

"The confirmation of this order is further testament of the growing interest in the Eurofighter Typhoon in the Gulf Region. It will enable Kuwait to benefit from the critical mass being developed in the Gulf and the many advantages that it brings to an Air Force in terms of interoperability, training and in-service support."

Since entry into service of the first Eurofighter Typhoon at the end of 2003, more than 470 aircraft have been delivered to six nations: Germany, the United Kingdom, Italy, Spain, Austria and Saudi Arabia. The Kuwait order follows an order by Oman in December 2012 for twelve aircraft. Eurofighter Typhoon is currently in service at 22 operational units and up to now, the whole fleet has completed more than 330,000 flying hours worldwide.

Embraer Signs Contract to become Exclusive E-Jets Heavy Maintenance Provider for SkyWest Airlines



Embraer announced today, at the MRO Americas show in Dallas, TX, that SkyWest Airlines selected Embraer Aircraft Maintenance Services (EAMS) as the exclusive heavy maintenance provider for their fleet of E175s. Under the contract, EAMS will provide airframe maintenance, modifications and repair services for SkyWest's Embraer fleet. "The selection of EAMS as SkyWest's exclusive E175 heavy maintenance provider is not only testament to our longstanding partnership but also to our customer support and services portfolio," said Bob Percy, Managing Director of Embraer Aircraft Maintenance Services. "In 2014, SkyWest entrusted Embraer as its E-Jet component management services provider, and today, we are proud to extend our relationship to include heavy maintenance as well."

"This new agreement enhances our relationship with Embraer," said Bill Dykes, Vice President of Maintenance at SkyWest Airlines. "After evaluating EAMS, we know we have selected the best heavy maintenance provider for our E175s."

Centrally located in Nashville, TN, EAMS is the world's center of excellence for Embraer ERJs and E-Jets heavy maintenance and component repair. EAMS has performed more than 1,400 basic inspections since 2008. The facility offers 11 hangar bays with more than 480 highly skilled technicians and has more than 2,800 components part numbers on their repair capabilities. EAMS is a Certified Repair Station under the following regulatory authorities: USA (FAA), Europe (EASA), Australia (CASA), Mexico (DGAC), Ecuador (DGAC), El Salvador (AAC), and Colombia (UAEAC).

Learn more about EAMS at www.embraer-EAMS.com and visit the Embraer booth #1339 at MRO Americas this week.

About SkyWest Airlines

As a leading air service provider offering global access to millions of people each month, SkyWest Airlines partners with the world's largest network carriers including United Airlines, Delta Air Lines, American Airlines and Alaska Airlines. With a fleet of 351 aircraft, SkyWest's more than 11,400 aviation professionals operate nearly 1,800 flights each day to 216 destinations throughout North America. SkyWest is known for its industry-leading workforce, exceptional leadership team and continued solid operational and economic performance. The airline is headquartered in St. George, Utah.

About Embraer Commercial Aviation Services & Support

Embraer is the world's leading manufacturer of commercial jets that seat up to 130 passengers. Supporting a fleet of over two thousand aircraft, Embraer Commercial Aviation currently has 38 service centers worldwide, including 13 Embraer Authorized Service Centers

(EASC) and 25 independent centers, certified by the respective local aviation authorities, servicing E-Jets, ERJ 145 family and Brasilia and Bandeirante turboprops.

Our global Services & Support structure provides prompt responses to a full range of needs, including field and technical support, material and spare parts, flight and maintenance operations consulting, aircraft upgrades and modifications and comprehensive crew and personnel training. It also incorporates eSolutions, a platform of web-based tools on the FlyEmbraer website. FlyEmbraer is a single point that connects Embraer customers with a digital portfolio of services at any time, on any device. It is designed to maximize aircraft productivity and avoid unnecessary operating costs and delays through both corrective and preventive maintenance.

The Pool Program for replacement parts benefits customers through optimized inventory control that reduces the initial cost of investing in spares and infrastructure. More than half of the worldwide E-Jets fleet uses the program.

For further information regarding Service & Support for commercial aviation, visit <http://www.embraercommercialaviation.com>.



SAAB Receives Order for Upgrade of the Air Traffic Management for the Swedish Armed Forces

Defence and security company Saab has signed a three-year agreement with the Swedish Defence Material Administration (FMV) regarding continued maintenance and upgrades of air traffic management- and airport systems at all the Swedish Air Force's airports and air bases.

The agreement means that Saab will have ongoing technical responsibility for system coordination as well as for maintaining and developing infrastructure linked to the air traffic management and airport systems. Saab is also responsible for ensuring that the requirements related to the authorization to run the military airports are met.

- Saab offers high-tech systems for traffic management and this upgrade of air traffic management systems at all the air force's airports further reinforces our position as supplier to FMV, says Anders Carp, head of Saab business unit Traffic Management.

The air traffic management system includes several products from Saab's portfolio of systems for air traffic management towers, which aim to create an integration of various systems to streamline and facilitate air-traffic controller's work.

Saab will also be responsible for ensuring that all the functions are technically sustainable against current and future requirements, by monitoring developments in this industry, performance monitoring, verification and validation. The agreement also includes maintenance, upgrades and replacement of equipment.

The agreement runs 2016-2018 with an option for a three-year extension.

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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

CYBERBIT, Elbit Systems' Subsidiary, Awarded Contracts Valued at an Approximately \$22 Million to Supply Intelligence and Cyber Systems to a Customer in Asia-Pacific

Elbit Systems Ltd. announced today that its subsidiary, CYBERBIT Ltd. "CYBERBIT"), was awarded contracts to supply intelligence and cyber analysis and research systems for a country in Asia-Pacific for an aggregate amount of approximately \$22 million. The systems will be supplied over a two- year period.

The systems to be supplied consist of CYBERBIT's WiT™ system, a highly advanced end-to-end intelligence and investigation solution, that supports every stage of the intelligence process, including the collection of the data from multiple sources, databases and sensors, processing of the information, supporting research, analysis and evaluation of the information with advanced analysis tools and disseminating the intelligence to the intended recipient.

Adi Dar, General Manager of CYBERBIT said: "We are proud to be selected to supply these advanced operational systems, which provide our customers with a significant leap forward in their intelligence analysis and collection capabilities. CYBERBIT is a world leader in the fields of SIGINT (Signal Intelligence) and cyber defense, with cutting edge solutions highly suitable for governmental agencies, large commercial organizations and critical infrastructure sites."

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 [Click Here](#)

Source: Epicos, Elbit Systems

Boeing Sign First Contract for the AVIATOR S Product Family

Cobham SATCOM and Boeing have signed a Technical Service Agreement (TSA) for the certification of the AVIATOR 600S and 700S systems on the Boeing 777 and 737 airplanes. The agreement is Cobham SATCOM's first contract with an airplane manufacturer for the AVIATOR S Series, which supports Inmarsat's new generation SwiftBroadband Safety service.

The TSA allows Cobham and Boeing to work together on the design of the 600S and 700S solutions onto the Boeing Next-Generation 737, the 737 MAX, the Boeing 777-300ER and 777X.

Cobham SATCOM's AVIATOR S product series offers smaller, lighter, powerful satcom equipment to airlines and addresses the growing demand from airlines for continuous non-encrypted secure data exchange between their ground operations and their aircraft. The AVIATOR S series of products supports secure IP and ACARS data services, as well as multiple voice channels, among other things.

"This is a defining agreement for AVIATOR S and Cobham SATCOM," said Kim Gram, vice president of Cobham SATCOM's aeronautical business unit. "It is an endorsement for the S Series family by one of the largest aircraft manufacturers in the world, and will make it possible for us to deliver AVIATOR 600S and 700S onto two of the best-selling aircraft flying today, used by airlines around the world."

The Boeing Next-Generation 737 airplanes include the 600/700/800/900ER models, with a total of 5,423 737 built (as of December 2015) and more than 6,800 ordered. The Boeing 737 MAX incorporates the best of future engine technologies for improved efficiency, reliability and passenger appeal. One of Boeing's best-selling models, the 777 is the largest twin-jet and the most popular long-haul airplane with airlines in operation, with more than 1,361 delivered and 1,885 ordered. The 777X is Boeing's newest family of twin-aisle airplanes.

For further information about AVIATOR S please visit www.cobham.com/satcom/aviator-s or go to www.cobham.com/satcom.

About Cobham SATCOM

Providing dependable communications and internet access anywhere under the most demanding conditions.

Our satellite and radio communication terminals perform in the most challenging and remote environments on land, at sea and in the air.

We design and manufacture these high performance products under the AVIATOR, EXPLORER, SAILOR and Sea Tel brands providing customers with outstanding performance, value and support through our global sales and service network.

About Cobham

Cobham protects lives and livelihoods with their differentiated technology and know-how, operating with a deep insight into customer needs and agility. Cobham's innovative range of technologies and services solve challenging problems in harsh environments across commercial, defence and security markets, from deep space to the depths of the ocean, specialising in meeting the growing demand for data, connectivity and bandwidth.

Cobham employs more than 12,000 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; defence electronics; air-to-air refuelling; aviation services; life support and mission equipment.

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Source: Epicos, Cobham SATCOM

Pilatus Sales Revenue Surpasses the One Billion Swiss Franc Mark for the Third Time

Excellent sales revenue figures of 1.1 billion Swiss francs ensure continuation of the revenue trend achieved by Pilatus in recent years. Operating results, at 191 million Swiss francs, were also outstanding. 63 new jobs were created in Stans alone during the past year, and there was more major investment in site infrastructure. The PC-24 development programme is progressing as scheduled; a number of significant programme milestones were reached during the year under review.

2015 was another exceptionally successful business year for Pilatus. Sales revenue, at 1.1 billion Swiss francs, was successfully held on a par with the record results of the previous year. At 191 million Swiss francs, operating results were excellent, too, even with high investment – almost 150 million Swiss francs – in infrastructure and research & development.

Pilatus also more than doubled incoming orders compared to the previous year. Orders in hand at the end of 2015 amounted to a handsome 1.4 billion Swiss francs, providing a

comfortable base for the future. The largest fleet order was received from the prestigious Royal Australian Air Force (RAAF), which ordered 49 PC-21s in December last year. The PC-21 will be used to train the RAAF's future military pilots.

121 aircraft delivered

In 2015, Pilatus built and delivered 121 aircraft to customers all over the world. Around half were civilian models, the remainder were trainer aircraft. The civilian market is showing signs of recovering from the financial and economic crisis of 2008. In 2015 we delivered a total of 70 PC-12 NGs. Once again, North America, to which 49 PC-12 NGs were delivered, was by far our most important market.

Pilatus presented the new 2016 version of its PC-12 NG, boasting a fiveblade composite propeller and various aerodynamic improvements. Occupying an important place in the Pilatus portfolio, the PC-12 NG will remain the object of further development moving forward into the future.

Generating two-thirds of overall sales revenue, our trainer aircraft business again provided a very stable pillar for our company. Pilatus consistently adheres to a two-pronged business strategy as an effective means of compensating for the inevitable fluctuations.

Pilatus invests in Switzerland

Pilatus continues to invest in the future and in Switzerland as a centre of employment, our goal being to achieve sustainable growth. In 2015 we commissioned our new logistics building in Stans with its 24 metre high, fully automated high-bay storage system, high-performance computer centre and superb light and airy works restaurant.

Following on from this investment in a modern logistics facility, we granted further financial resources for a future-oriented production infrastructure: a state-of-the-art surface treatment centre which will meet environmental standards going forward and a project to convert an existing production hall and equip it with seven ultra-modern milling machines. The structural work has already started.

With the start of series production of the PC-24 moving ever closer, preparatory work is well underway. An additional production hangar will be required here in Stans: a preliminary project has already been launched.

The entire region benefits from our success here at Pilatus. Multiple contracts worth millions of Swiss francs are awarded to many companies, both local and further afield. Equally, the purchasing power of new members of the workforce brings additional revenue for local businesses of all sizes. The Pilatus workforce at the headquarters in Stans grew by 63 full-time jobs to a total of 1788 – 3.5 percent more Swiss jobs in one year!

The PC-24 Super Versatile Jet is airborne

2015 was the most important year yet in the development of our PC-24. P01, the first PC-24 prototype, took off for a 55 minute flight on 11 May, becoming airborne for the first time

after a takeoff run of just 580 metres. A huge success and another milestone in the history of Pilatus! P02, our second PC-24 prototype, took off on its maiden flight just six months later.

The two PC-24s are currently engaged in a very intensive and challenging programme of test flights scheduled here in Switzerland and abroad. Together, the two prototypes have already flown over 400 hours, successfully completing various essential tests required for certification. Deliveries to customers are scheduled to go ahead from the fourth quarter of 2017.

Oscar J. Schwenk on 2015 and the future

"I am proud that our 2015 results are an almost seamless continuation of last year's record results – and in Swiss francs, it must be said, one of the world's strongest currencies. That is no small achievement, and absolutely not something to be taken for granted! We are a company that believes in Switzerland as a centre of vision and action, and we fully intend to continue to expand our operations here in Switzerland in the future.

The PC-24 development programme is also advancing well. The results of the extremely challenging test flights are very encouraging, and we are satisfied with progress, which continues according to our milestone timetable. I fully expect our first Swiss business jet to meet customer expectations!

2015 was another record year, but we already know that 2016 will not be quite as good. Sales revenue and profits will be lower than in the past simply because the positive impact of fleet orders will not be reflected in our balance sheet before 2017. But we look optimistically to the years thereafter, having laid a very solid basis in 2016!"

For Further Information [Click Here](#)

Source: Epicos, Pilatus

THALES and AIRBUS Defence and Space to Produce New Digital Maps for French Defence

The IGN has awarded Thales and Airbus Defence and Space the GeoMaps contract to supply the French Ministry of Defence database with digital geographic data on a range of scales, including city maps. The data will mainly be based on images acquired by the two Pléiades satellites, significantly increasing the accuracy of the maps to be produced. This contract runs from 2016 to 2021 and guarantees the consistent geometry and formatting of all reference mapping data to optimise interoperability between the French Ministry of Defence's different systems and services, as well as with their allies and partners.

The IGN, acting for the Direction Générale de l'Armement (DGA), the French defence procurement agency, has thus renewed its confidence in this consortium, founded more than a decade ago, to create TopoBase Défense, which GeoMaps now supersedes. It is one of the main building blocks of the GEODE 4D programme - the four-dimensional defence data (geographical, hydrographic, oceanographic and meteorological) - which integrates all the systems required to keep the French armed forces sufficiently informed of the nature and characteristics of the theatre concerned. In the future, the GeoMaps data will be managed by the GEODE 4D programme and disseminated to all the defence systems and in all theatres of operations.

The French Military Staff will be capable of generating highly value-added data to meet the challenges that defence forces now face: to recall the latest multi-scale geographical data (from national to urban level) and to keep it highly precise and updated regularly to ensure that the information is accurate. The areas to be produced will be defined according to the respective needs of the armed forces.

The Thales-Airbus Defence and Space consortium will handle the whole process: from analysing what the Military Staff need, through to running quality control checks on the products supplied. This also includes managing specifications, defining the production framework (procedures, tools, controls) and is based on a large network of SMEs to ensure that all of the data is consistent and homogeneous.

For Further Information [Click Here](#)

Source: Epicos, THALES