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Cover page photo: HNGS
Editor-in-Chief:
Dimitrios Angelopoulos M. Sc.
Marketing & Sales:
Dionysis Antonopoulos

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DBDC INTERNATIONAL DEFENCE PUBLICATIONS&EVENTS LIMITED
11 Zinonos Sozoustr, Office 103,
CY-1075 Nicosia, Cyprus,
Tel : 00357- 22475406,
Fax: 00357- 22475606,
Email: dbdc@skynet.be
www.dbdcgroup.com

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EUROPE: Stephen Barnard
CEO, ADJUTANT MTCT:
M: [+49 228 3500886](tel:+492283500886)
M: [+44 7984 033154](tel:+447984033154)
F: [+44 1252 315324](tel:+441252315324),
stephen.barnard@web.de
stephen.adjutant@gmail.com

RUSSIAN FEDERATION
Laguk Co. Ltd.
Tel. +74959121346
Fax. +74959121260
e-mail: laguk-media@mail.ru,

BRUSSELS POC: Av. Gribaumont 54,
Woluwest.Labert, 1200 B
Bruxelles, Belgium,A
Tel/Fax +3227724554
e-mail dbdc@skynet.be

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GENERAL

➡ Greece to deploy Patriot to Saudi Arabia



Greece will deploy some of its Patriot defense missiles to Saudi Arabia under a program involving the US, Britain and France, the government spokesman Stelios Petsas recently said. He also said about 130 personnel will be deployed to Saudi Arabia, which is covering all the costs. Athens will deploy the missiles at Saudi cost “to protect critical energy infrastructure, promoting our country as a factor of regional stability and strengthens our ties to Saudi Arabia,” government spokesman Stelios Petsas told reporters without providing a date for the deployment. He also stressed the Patriot deployment would not jeopardise its relations with Saudi Arabia’s neighbours as it is a purely defensive system. The announcement came as Greek Prime Minister Kyriakos Mitsotakis was on a Middle East tour for investment talks with the governments of Saudi Arabia and the United Arab Emirates.

The opposition SYRIZA movement has criticised the deployment on the basis that it is not part of a multinational mission and will weaken Greece’s air defence.

MINISTRY OF DEFENCE

➡ Greek Defence Minister visit to Israel

The Minister of National Defence Mr. Nikolaos Panagiotopoulos pays an official visit to Israel,

further to an invitation by his Israeli counterpart Mr. Naftali Bennett. On Wednesday, 15 January 2020, Mr. Panagiotopoulos visited the Yad Vashem Holocaust Museum, where he laid a wreath to the memory of the Holocaust victims. Afterwards, he visited the Old City of Jerusalem where he venerated in the Church of Resurrection, where the Holy Sepulchre is located, the Holy Monastery of Saint John the Baptist and Theotokos’ Tomb in Gethsemane. On Thursday, 16 January 2020, Mr. Panagiotopoulos will meet with Israel’s Minister of Defence Mr. Naftali Bennett, and afterwards he will have consecutive meetings with representatives of the Israeli Defence Cooperation Directorate (SIBAT) and the Defence Research and Development Directorate (MAFAT). On the second day of his visit, Mr. Panagiotopoulos had talks with his counterpart, Mr. Naftali Bennett, on a number of issues. During the meeting, special reference was made to the strong links that have been developed between these two countries in recent years, as well as the wide-ranging cooperation that has been achieved in the field of Defence, while the willingness of Greece and Israel to further strengthen their cooperation in the defence sector was confirmed. Moreover, matters relating to armaments and current issues of cooperation in the defence – technical sector were also discussed.

Both Ministers referred to the added value of the multi-level tripartite cooperation between Greece, Cyprus and Israel and its contribution to the creation of security and stability in the Southeastern Mediterranean Sea.

During the meeting, views were exchanged in respect of the security and stability challenges in the Eastern Mediterranean Sea and Middle East, as well as on the ways for responding effectively to them. Then, the Minister of National Defence had successive meetings with representatives of the International Defence Cooperation Directorate of the Israeli Ministry of Defence (SIBAT) and the Directorate of Defence Research and Development (MAFAT).



ΝΕΑ ΦΡΕΓΑΤΑ «ΨΗΦΙΑΚΗΣ ΕΠΟΧΗΣ»

Η Naval Group, ηγέτιδα ευρωπαϊκή δύναμη στα ναυτιλιακά συστήματα άμυνας, με κληρονομιά που μετρά 400 χρόνια περίπου.

Περισσότερες από 500 δεξιότητες συνεργάζονται για την ανάπτυξη φιλόδοξων και σύνθετων συστημάτων άμυνας.

Οι καινοτόμες λύσεις, που σχεδιάζει, προστατεύουν τα συμφέροντα εθνικής ασφάλειας των συμμάχων της Γαλλίας.

Για περισσότερες πληροφορίες, επισκεφθείτε την ιστοσελίδα www.naval-group.com



After the meeting of Messrs. Panagiotopoulos and Bennett at the Israeli Ministry of Defence, the Minister of National Defence made the following statement: “My official two-day visit to Israel has just ended and this afternoon, I had the chance to meet with my counterpart, the Minister of Defence of Israel, Mr. Naftali Bennett, with whom we discussed about the close strategic relationship between the two countries and the ways for achieving its further strengthening and deepening.

Furthermore, I had the opportunity of meeting members of the very strong Defence Industry of Israel and discussing on the possibilities for further development in the relations between the Israeli and the Greek Defence Industry at this very interesting geopolitical juncture. The potential for development of cooperations, synergies, even joint-manufacturing schemes between the Greek and Israeli features of Defence Industry is indeed huge.

Finally, I had also the opportunity of visiting the facilities of the Israeli Airspace Industry, where I was informed about the “Heron” Unmanned Vehicle, procured by the Hellenic Armed Forces, so that it would become an active part of their structures and I also had the opportunity of witnessing the extremely advanced and developed Israeli Industry in terms of Unmanned Vehicles, which I am sure you understand that it is of interest to us and is considered to be our strategic goal as well in the domestic Defence Industry”.

met to decide upon the new leadership of the Armed Forces.

It unanimously decided the following:

- Lieutenant General (INF) Konstantinos Floros is the incoming Chief of Hellenic National Defence General Staff (Chief/HNDGS).
- Lieutenant General (ARM) Charalambos Laloussis is the incoming Chief of Hellenic Army General Staff (Chief/HAGS).
- Vice Admiral Stylianos Petrakis HN is the incoming Chief of Hellenic Navy General Staff (Chief/HNGS).
- Lieutenant General (HAF) Georgios Blioumis remains Chief of Hellenic Air Force General Staff (Chief/HAFGS).

On 19 January 2020, the Governmental Council on Foreign Policy and National Defence met and decided on the assignments of Lieutenant Generals,

Rear Admiral and Major Generals as follows:

a. ARMY

- Lieutenant General Dimitrios Bonoras (RN:44978), as Army Inspector General - Commander, Training and Doctrine Command, not to be exempt from his other duties as Deputy Chief of Hellenic Army General Staff.
- Lieutenant General Konstantinos Koutras (RN:44982), as Commanding General, Hellenic First Army, not to be exempt from his other duties as Commanding General, C Army Corps/NRDC/GR.
- Lieutenant General Petros Demestichas (RN:45600), as Deputy Chief of Hellenic National Defence General Staff, not to be exempt from his other duties as Chief of Staff of the Hellenic National Defence General Staff.
- Major General Angelos Ilaridis (RN:45676), as Commanding General, d Army Corps, not to be exempt from his other duties as Commanding General of the XVI Mechanised infantry Division.

b. NAVY

- Vice Admiral Panagiotis Liberis HN (RN: 1799) as Chief of the Hellenic Fleet.

New military leadership

On 17 January 2020, the Governmental Council on Foreign Policy and National Defence, chaired by the Prime Minister Mr. KYRIAKOS MITSOTAKIS,



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FORCE **PROTECTION** IS OUR MISSION.

➡ New GDDIA General Director

Lieutenant General(rtd) Theodoros LAGIOS HAF is the newly appointed General Director of General Directorate for Defence Investments and Armaments (GDDIA)

He joined the Hellenic Air Force Academy (HAFA) in 1981 and he has graduated in 1985, as a 2nd Lieutenant.

- November 2019 - Present: General Director of the General Directorate for Defence Investments and Armaments (GDDIA) of Hellenic Ministry of Defence
- March 2018: Director of the Hellenic Air Force General Staff (HAFGS) Personnel Branch (B) - Responsibility for all matters concerning Human Resourced Management, Training and Evaluation for the Military and Civilian personnel of Hellenic Air Force.
- March 2016, Hellenic National Defence General Staff (HNDGS)/D4 Directorate Director (Defence Policy Directorate)
- March 2015, 120 Air Training Wing (ATW) Commander
- June 2015, 120 Air Training Wing (ATW) Deputy Commander
- August 2012, Section Head of HNDGS/D4/NATO Department (NATO Department in Defence Policy Directorate of HNDGS)
- March 2012, Staff Officer of HNDGS/D4/NATO (NATO Department in Defence Policy Directorate of HNDGS)
- December 2010, 359 Public Services Air Support Unit (PSASU) as Ops Planning Officer
- August 2010, 359 Public Services Air Support Unit (PSASU) as Deputy Flight Safety Officer
- June 2007, Permanent Representation to NATO, Brussels. (NATO Representative of NATO Air Defense Committee (NADC), Nuclear Planning Group/Staff Group (NPG/SG) and High Level Group (HLG))
- August 2005, 361 Air Training Squadron (ATS) Commander
- March 2004, Aid de Camp to the Minister Of Defense
- July 2002, Air War College, Training Director
- April Flight Experience
- His flight logbook has more than 3000 recorded flight hours with various types of

fighter and training aircraft (T-41D, T-37 B/C, T-6A, T-2 E/C, C-47, F-5A/B).

- Lieutenant General (P) Theodoros Lagios is accredited as a Mission Commander, a Fighter Weapon School Instructor and is an experienced Flight Instructor (Cat. A Certification).

➡ GDDIA General Director visited Israel



On December 18 and 19, 2019, the General Director of the GDDIA, Lieutenant General (rtd) Theodoros LAGIOS (HAF), was visited Israel following an invitation of the Israeli side.

During the visit, a meeting was held with his counterpart of SIBAT, Brigadier General (rtd) Yair KULAS, where discussed issues of mutual interest. Also, a tour at Israel Aerospace Industries (IAI) company premises took place, following their request.

ARMAMENT PROGRAMS

➡ HELLENIC ARMY

➡ RM-70 upgrade

The Hellenic Army has under consideration the upgrade of the 116 RM-70 currently in service. The RM-70 Modular multiple launch rocket system is upgrade of the Czechoslovakian RM-70. This upgrade was jointly developed by Diehel BGT Defence of Germany and Slovakia. Slovakia ordered upgrade of 26 vehicles to the RM-70 Modular standard. First deliveries were made in 2005. This upgrade is also offered for other RM-70 operators.

The RM-70 Modular uses interchangeable rocket pods and is capable of firing either 28 122 mm Grad rockets, or 6 227 mm M270 MLRS rockets. It



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makes vehicle compatible with NATO munitions. The 122 mm rockets are less capable and are mainly used for training. Still though Slovakia has a number of these rockets in storage.

A standard 227 mm rocket is 3.96 m long and weights 307 kg. Its warhead weights 120 kg. Maximum range of fire is 40 km. The RM-70 Modular can fire full range of M270 rockets, including HE-FRAG and cluster. It can also fire newly developed extended range guided munitions with a range of 60-100 km and MGM-140 ATACMS tactical missiles. Though it is unknown if Slovakia obtained these extended range rockets and tactical missiles.

HELLENIC NAVY

Submarine's torpedo program

Defence Minister Panagiotopoulos has stated that one of the Hellenic Navy's priorities is the acquisition of modern heavyweight torpedoes to be used by the S-214 type newly build submarines without having these submarines.

The Hellenic Navy is looking to procure 36 21-inch (533 mm) heavyweight torpedoes for its four Papanikolis-class Type 214 submarines and sole Type 209 AIP-equipped submarine, HS Okeanos, to replace legacy AEG SUT and SST-4 torpedoes. The service originally launched the new-generation heavyweight torpedo acquisition program in 2002.

The contenders will likely include Leonardo with the Black Shark Atlas Elektronik with the DM2A4 Seahake Mod4 and Naval Group with the F21.

HELLENIC AIR FORCE

F-16 Upgrade

On 24 December 2014, Defence Minister informed the Hellenic Parliament that the first F-16 Block 52 Advanced aircraft has arrived in the Hellenic Aerospace Industry facilities for commencing the work to be upgraded to Viper configuration. The principal contractor will be Lockheed Martin of Fort Worth, TX. Lockheed Martin expects to complete the task by Jun 30, 2027. Lockheed Martin official said in September that the first two years will be spent on engineering for the prototype and the registration of the systems. The installation on the Greek fighter jets will take place during the third year of the program, and the Hellenic Air Force pilots will be trained in the fourth year.

«Follow on Support of Mirage M2000/-5» Framework Agreement Signing



On Monday, December 23, 2019, the framework agreements regarding the program «Follow on Support of Mirage M2000/-5» pursuant to 4650/2019 law, were signed between GDDIA and DASSAULT AVIATION, THALES DMS FRANCE and SAFRAN AIRCRAFT ENGINES companies.

Greece to buy F-35

Referring to current tensions in Greek-Turkish relations, Greek Prime Minister Mitsotakis said Turkey is now isolated diplomatically, but reiterated that communication between the two countries must be kept open. He also stressed that Greece would only agree to resorting to the UN's International Court of Justice in The Hague only for the issues of the continental shelf and Cyprus' Exclusive Economic Zone.

Speaking of armaments, he said, "If the country's current fiscal state allows it, we will seriously consider purchasing F-35 fighter jets, because they are the most readily available and advanced in the market."

HELLENIC DEFENCE INDUSTRY

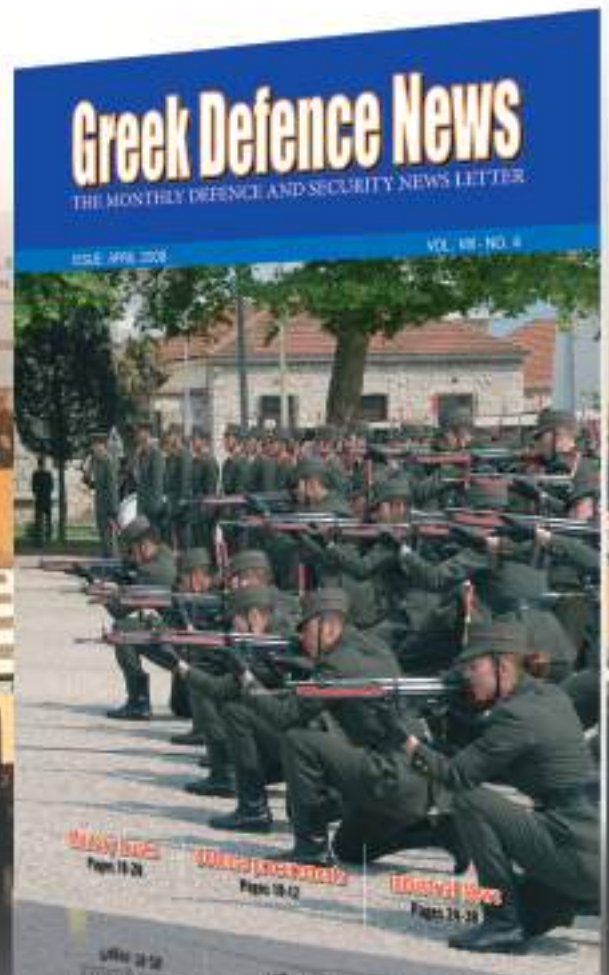
Hellenic Shipyards

On Monday, December 23, 2019, the closing agreement between the Hellenic Republic and ThyssenKrupp Marine Systems (TKMS) and Hellenic Shipyards (HSY) companies were signed, pursuant to 6450/2019 law.



DBDC

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➔ Eight Greek companies are included to Naval Group's global supply chain



The Naval Group has conducted an extensive evaluation for the inclusion of Greek companies in the global supply chain

These companies are currently registered suppliers of the Naval Group for their services, skills and / or products:

- AKMON SA: AKMON manufacturing, upgrading and rebuilding cables and parts for aerospace use, electromechanical systems for assembly of high-tech telecommunications and electronic equipment.
- ELFON: The company specializes in the manufacture of cables, wiring harnesses and electromechanical assemblies.
- HELLENIC CABLES: The company designs, manufactures and installs a wide range of cables through optical fibers and synthetic cables.
- IDEINTRACOM: The company is a leading provider of electronic, telecommunication and hybrid power systems in the defense and security sectors. It participates in a number of international programs related

to the development and production of defense and security systems, as well as cogeneration programs in collaboration with leading international manufacturers.

- METKA: METKAIndustrial activities focus on the construction of high-value metalworks for energy, infrastructure and defense applications. In this context, METK is mainly engaged in advanced manufacturing subcontracting in collaboration with top international defense equipment suppliers, having specialized manufacturing experience in the ship and submarine industries.
- MEVACO: A leconstruction company that undertakes high-tech projects in the fields of metal products and construction (drilling, laser cutting, shaping, welding, carbon steel, stainless steel or aluminum) for virtually any type or size of product. (from individual components to complex electromechanical assemblies), according to customer requirements.
- MILTECHHELLASS.A: MILTECH is active in the fields of thermal imaging systems, radio equipment, avionics and aircraft belts and other special purpose electronic applications. The company has a large team of engineers and technicians with significant experience in the electronics industry.
- TELETEL: The company offers software and component product design and development services as well as technical support services for major international defense, telecommunications and aerospace industries.

Naval Group will focus In these eight companies every time the group needs a service or product from those for which they have been selected. Opportunities will include both French and international NavalGroup programs, including the FDI French Frigate program as well as extras that are under discussion for the Hellenic Navy.

NavalGroup is already working with the Greek industry as Sunlight supplies batteries for submarine programs, while preparing new meetings with representatives of the Greek industry in the early 2020s to proceed with the evaluation of about 20 potential applicants.

➔ ALTUS LSA

On 4 December 2019, a meeting was conducted at the Hellenic Navy General Staff premises between HNGS officers and representatives of the Greek company ALTUS LSA. The aim of the meeting was to present company's proposal about UAV.



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ALTUS LSA is a Hellenic company focused in the development and service provision of defense, security and innovative technology solutions.

To approach the international market, the company has established a variety of strategic partnerships and synergies worldwide, aiming to the development of a European center of excellence in the field of Unmanned Systems, Target Drones and innovative technological solutions.

Through its personnel, which is comprised of a diversified field of expertise, it accumulates more than fifteen years of experience in the area of design, development, production and services provision of Unmanned Aerial and Surface Systems (UAVs & USVs) for international customers worldwide.

of previous versions, providing significant cost savings. In the operational configuration, the BSA is equipped with a battery that ensures an increase in capabilities and performance. The BSA will be delivered for the ITS Pietro Venuti and ITS Romeo Romei submarines which entered service in 2016 and 2017, respectively.

RAYTHEON

On 17 December 2019, a meeting was conducted at the Hellenic Army General Staff premises between HAGS officers and representatives of the US Company RAYTHEON. The aim of the meeting was to present company's National Advanced Surface-to-Air Missile System (NASAMS™)



The National Advanced Surface-to-Air Missile System (NASAMS™) is a highly adaptable mid-range solution for any operational air defense requirement. The system provides the air defender with a tailorable, state-of-the-art defense system that can maximize their ability to quickly identify, engage and destroy current and evolving enemy aircraft, unmanned aerial vehicle and emerging cruise missile threats.

NASAMS is owned by eleven countries and has been integrated into the U.S. National Capital Region's air defense system since 2005. In addition to the U.S., Norway, Finland, Spain, The Netherlands, Oman, Lithuania, Indonesia, Australia, Qatar and one undisclosed country have chosen to depend on NASAMS for homeland defense and the defense of critical assets.

Together with Norwegian partner KONGSBERG Defence and Aerospace, AS, Raytheon continues to integrate new capabilities into NASAMS to develop and field highly capable and fully integrated solutions. NASAMS is comprised of the Raytheon Sentinel radar, the KONGSBERG Fire Distribution Center, and the Raytheon Advanced Medium Range Air to Air Missile. Built on a modular, distributed, open hardware and software architecture, NASAMS is well positioned to enable future technology, feature and capability insertion including sensors and missiles. As the NASAMS user community grows, new technology insertions

AERO APARTION

On 10 December 2019, a meeting was conducted at the Hellenic Army General Staff premises between HAGS officers and representatives of the Greek Company AERO APARTION. The aim of the meeting was to present company's proposal for the logistic support of the Hellenic Army Aviation recently acquired OH-58D Kiowa Warrior. AERO APARTION is a supplier of the Hellenic Armed forces providing all types of spare parts and consumables according to their needs and participate on numerous tenders and conclude the relevant contracts.

ACTIVITIES OF FOREIGN INDUSTRIES RELATED TO THE HELLENIC ARMED FORCES ARMAMENTS PROGRAMS

LEONARDO

On 21 January 2020, a meeting was conducted at the Hellenic Navy General Staff premises between HNGS officers and representatives of the Italian Company. The aim of the meeting was to present company's Black Shark Advanced (BSA) torpedoes and associated logistic support services, to increase the Hellenic Navy's S-214 anti-submarine warfare capability.

The Black Shark Advanced is the latest version of a heavy torpedo which is also in use in Italy, Chile, Indonesia, Malaysia, Portugal and Singapore. This version can be optimized for both training and operational purposes.

A newly developed rechargeable battery is used in training scenarios that allows a higher number of launches – up to one hundred – compared to that

will provide current and future NASAMS partners access to the most technologically advanced and combat-ready system in the world.

Aeronautics

On 28 November 2019, a meeting was conducted at the Hellenic Air Force General Staff premises between HAFGS officers and representatives of the Israeli company Aeronautics. The aim of the meeting was to present company's proposal about UAV.

SkyDweller

On 26 November 2019, a meeting was conducted at the Hellenic Air Force General Staff premises between HAFGS officers and representatives of the US company SkyDweller. The aim of the meeting was to present company's proposal about solar-powered UAV.

Skydeweller is a US-Spanish aerospace company developing the world's first solar-powered, unmanned perpetual flight vehicles. These unprecedented autonomous systems will enhance government and commercial telecommunication, geospatial, meteorological and emergency operation efforts around the world allowing our customers to operate in more challenging areas for longer durations with reduced environmental impact.

ARISTA

On 20 November 2019, a meeting was conducted at the Hellenic Army General Staff premises between HAGS officers and representatives of the US company ARISTA. The aim of the meeting was to present company's proposal for the logistic support of the Hellenic Army Aviation recently acquired OH-58D Kiowa Warrior and CH47D heavy transport helicopter.

HOMELAND SECURITY

New FB 56' SF model for the Hellenic Coast Guard

On Tuesday 29th January 2020, Hellenic Coast Guard signed a contract with Italian shipyard FB Design to acquire fifteen FB 56' SF patrol boats. The project was achieved in partnership with Italian company Elettronica Marittima and through the help of FB Design dealer Interso Support Services Ltd.



A brand new model in the FB Design range, the FB 56' SF is based on the extremely successful FB 52' SF already in use with the Italian Guardia di Finanza, while also incorporating many of the technological advancements developed for the FB 60' SF. Both vessels are already a strategic part of the Italian Guardia di Finanza fleet and represent the most up-to-date, innovative, safe and reliable vessels available today, in terms of technology and design.

The FB 56' SF is the latest vessel designed by FB Design, barely 5 months after the death of its founder, legendary designer Fabio Buzzi: "king" of speed boats and mastermind behind some of the fastest boats in the world. This brand new vessel is not only a testament to his memory, but also evidence of how the technical team he has trained is ready to face new challenges.

With a racing history that started in the '70 and can depend on countless successes, a proven history in the military field of over 30 years and a great background in developing maritime technology, FB Design is one of the most advanced shipyards in the world when dealing with composite offshore vessels.

The FB 56' SF has a full offshore operational capability in Sea State 4 and a guaranteed survival in Sea State 7. Its maximum speed is over 50 knots, with a maximum continuous speed of 40 knots. The design of the boat is optimized for the particular conditions of the Greek seas, so as to ensure high performance combined with steady cruising and maximum absorption of the stresses of the operating systems, especially of the crew due to the high speeds during adverse weather

conditions. The range at economical speed of 40 knots is more than 450 nm.

The vessel's propulsion includes: 2 Scania Marine Main Engines (1100 hp), ZF gearboxes and Trimax surface drives.

The boat's construction solution is based on high-tech composite material, and its application is carried out by modern special methods that ensure the full exploitation of its properties, thus keeping the weight of the boat at a low level without affecting endurance. All FB Design products use the exclusive patented Structural Foam™ solution, to create unsinkable vessels.

Its total length is 16.10 m and its width is 4.1 m. It has two wreckage stations on its deck: the first is on the deck and to the right of the bridge and has a Jason Cradle type retrieval net, while the second is at stern and is specially designed so that a stretcher can be lifted from the sea by shipwreck.

The ship's bridge is fitted with anti-ballistic windows as per standard STANAG 4569 (NATO Level 2) to offer optimal crew protection.

The vessel is fitted with a full range of modern radio equipments including satellite antenna, HF, VHF and UHF, NAVTEX and GMDSS (N2) areas A1 and A2, AIS. To identify surface targets the FB 56 SF is also fitted with a cooled type optical and thermal imaging system.

Vessel deliveries will begin in about 10 months and are expected to be completed by the end of 2023.

ESDP

EDA part of Europe for Aviation at the 2020 World ATM Congress

The "Europe for Aviation" team, made up of eight European aviation organisations working to implement the Single European Sky (SES), will gather at this year's World ATM Congress, from 10 to 12 March in Madrid, Spain. Over the course of the 3-day Congress, these organisations will showcase how through collaboration they can go much further tackling the most pressing challenges facing aviation, such as sustainability, capacity and innovation.

This year EDA will be there as part of the "Europe for Aviation" stand and theatre (#849 and #1151) to represent the military aspects of SES/SESAR. The stand will host a wide range of briefings, presentations and guided SESAR walking tours, illustrating the collaboration in action between the



European aviation organisations working to implement SES, namely the European Commission, EUROCONTROL, SESAR Joint Undertaking (SESAR JU), SESAR Deployment Manager (SESAR DM), European Union Aviation Safety Agency, Innovation and Networks Executive Agency (INEA), and EUROCAE.

EDA experts will be on the stand throughout the congress, so pass by and find out more about the EDA and its work on SES/SESAR.

NATO

Secretary General: NATO-EU cooperation has reached unprecedented levels



Addressing the European Parliament's Foreign Affairs Committee and Sub-Committee on Security and Defence on Tuesday (21 January 2020), NATO Secretary General Jens Stoltenberg welcomed closer NATO-EU cooperation, including on maritime security, military mobility, and countering cyber and hybrid attacks.

He described Europe and North America as "two sides of the same coin" and emphasized the importance of a strong transatlantic bond in order to maintain peace and security in Europe. The

meeting is part of the Secretary General's regular engagements with EU institutions.

CYPRUS

➡ Cyprus signs €240 mln French missiles contract

Cyprus has ordered French surface-to-air Mistral missiles as well as Exocet anti-ship missiles in a €240 mln arms deal, the Defence Ministry confirmed on Friday. French newspaper La Tribune reported the missile deal on Thursday and the Defence Ministry confirmed the deal but said it could not go into any detail due to the sensitive nature of "national security".

It said the missile purchase was "part of the upgrade of the National Guard's operational capability" and "contracts were signed related to upgrading specific weapons systems at an estimated cost of €240 million". According to La Tribune, Cyprus signed contracts with the European multinational MBDA for the supply of Mistral and Exocet missiles. It said Cyprus has ordered surface-to-air Mistral missiles which can be used against fast boats, as well as Exocet anti-ship missiles, intended to arm a coastal defence battery. The Exocet is designed for attacking small- to-medium-size warships while the Mistral is a very short-range air defence missile system that can be used from vehicles, ships, helicopters, as well as in a portable configuration. The weapons sale comes at a time Cyprus is looking to bolster its defence capability as Turkey ratchets up tensions in the region over its illegal drilling operations in Cypriot waters. France and Cyprus have cultivated closer military ties over the past three years.

➡ Navy takes delivery of Poseidonas 1, Nireas 1



The Poseidonas 1 and Nireas 1 have been deployed with the Cyprus navy following a special ceremony held at the Evangelos Florakis naval base on Monday.

The special ceremony was attended by Defence Minister Savvas Angelides and the leadership of the National Guard.

The two speed boats are Italian made and will significantly enhance the operational capacity of National Guard divers. Their acquisition comes as part of plans to upgrade the National Guard.

FRANCH

➡ Charles De Gaulle Carrier will deployed to the East Mediterranean



French President Emmanuel Macron has announced that the country's Charles De Gaulle aircraft carrier strike group will be deployed to the East Mediterranean between January and April 2020 in order to aid French military Operation Chammal in the Middle East. The operation was originally launched in 2014 to halt the expansion of Daesh* and to support the Iraqi military in its fight against the group. Germany, Belgium, the Netherlands, Spain, Portugal, and Greece will also participate in the deployment, escorting the aircraft carrier to its destination.

➡ Meeting of the Foreign Ministers of Egypt, France, Cyprus and Greece

Final Communiqué

1. Within the context of continued consultations and coordination, the Foreign Ministers of Egypt, France, Cyprus and Greece met in Cairo on January 8, 2020, to discuss the recent developments in the Eastern Mediterranean region in light of increased tensions that threaten peace and stability in this region, they were joined by the Italian Foreign Minister in a consultative framework. 2. The Ministers stressed the strategic nature of their respective States' relationship due

to geographic, historic and cultural bonds, in full accordance with and respect of international law and the United Nations Charter. This relationship constitutes a strong basis for cooperation in multiple fields. The Ministers reiterated their determination to undertake additional joint efforts in order to face increasing challenges in the Eastern Mediterranean region, at the foremost of which are armed conflict, terrorism and irregular migration. 3. The Ministers deemed the signing of the memorandums of understanding in November between Turkey and Mr. Fayeze Sarraj the President of the Presidency Council of Libya to be a violation of relevant United Nations Security Council resolutions and international law. The Ministers underlined that these memorandums have further undermined regional stability, and are both considered null and void. 4. In addition, the Turkey-Libya Memorandum of Understanding purporting to delimit maritime jurisdictions in the Mediterranean Sea infringes upon the sovereign rights of third States, does not comply with the Law of the Sea and cannot produce any legal consequences. Additionally, the Ministers reiterated the necessity of full respect of the sovereignty and the sovereign rights of all States in their maritime zones in the Mediterranean. In this regard, the Ministers strongly condemned continued Turkish actions in the exclusive economic zone of Cyprus and its territorial waters. The Ministers call upon Turkey to immediately cease all illegal exploration activities. 5. The Ministers deemed the security memorandum and any decision to send troops to Libya to be a serious violation of the United Nations Security Council resolution 2259 and other relevant United Nations Security Council resolutions, and a threat to regional security and stability, and called for an immediate de-escalation. 6. In that context, the four Ministers, have underlined their deep concern regarding Turkey's recent violations of international law in the Eastern Mediterranean. They expect Turkey to act responsibly and emphasize the necessity for the countries of the Mediterranean basin to cooperate in good will and constructively to guarantee the security and stability of the Mediterranean on the basis of international law. 7. The Ministers affirmed that a comprehensive political solution is the only way to resolve the Libyan crisis and regain stability in Libya. The Ministers stressed their total commitment to work towards a political solution to the crisis in Libya. They also expressed their keenness to avoid escalation there. In that context, the Ministers of the four States expressed their support for SRSG Ghassan Salame's efforts, to UN initiatives, and to the Berlin Process. 8. The Ministers stressed their

respective States' determination to reinforce mutual cooperation aimed at increasing their peoples' welfare. They also stressed their intent to continue mutual coordination of their positions and measures aimed to achieve the security and stability of their States and of the Eastern Mediterranean, including through fighting terrorism. 9. In conclusion, the Ministers affirmed that priority should be given to regional cooperation and to the comprehensive economic development that all States of the region aspire to, in full conformity with international law. They also affirmed that achieving development will contribute to regional stability and prosperity, and that this objective is currently being hindered by the ongoing crises that should be earnestly resolved as soon as possible. 10. The Ministers agreed to continue their consultations and to convene their next meeting in Crete, Greece, at a date to be agreed.

TURKEY

TCG Anadolu to use domestic combat management system



Turkey's TCG Anadolu will use a domestically developed new generation combat management system, becoming the second Turkish Naval Forces vessel after the TCG Kinaliada to do so, APA reports citing Daily Sabah.

The New Generation Network-Assisted Data Integrated Combat Management System (ADVENT SYS) was developed in cooperation with Turkey's leading military systems developer HAVELSAN and the Naval Forces Command Research Center Command (ARMERKOM). It is now being installed onboard the TCG Anadolu, a multi-purpose amphibious assault ship.

The construction of the TCG Anadolu initially launched as part of a project in 2016. It will enter service with the Turkish Naval Forces at the end of 2020. The vessel will be able to transport at least one battalion-size force to a determined location along with its logistical support and without the need to use a base..

The TCG Anadolu is being produced with a local content ratio of 68% and will be capable of traveling 9,000 miles (14,500 kilometers) without refueling. The vessel is intended to meet the various needs and requirements of the Turkish Armed Forces, such as sustaining long-endurance, long-distance military combat or humanitarian relief operations.



➡ **Tunisia signed a contract with the Turkish company BMC to purchase armored vehicles**

BMC, one of Turkey's leading defense contractors, is set to produce armored vehicles for Tunisia as part of a recent deal with the country's Interior Ministry. The contract was signed after the Turkish land vehicle manufacturer won the International Armored Vehicle Tender for the production of a total of nine 4x4 Medium Class Multi-Purpose Armored Vehicles (MPAVs).

BMC, whose product range features tracked, armored and tactical vehicles, competed against some of the world's largest military vehicle manufacturers, including those from the U.S., Germany, France and Finland. As part of the deal, the company will for the first time produce midrange armored vehicles, which are currently used by the Turkish military, for the global market. BMC will also provide integrated logistical support solutions to Tunisia after the delivery of vehicles.

platforms which is an important parameter in protection from guided missiles and fire control radars, for improvement of the millimeter wave RCS of the existing or newly designed platforms and for measurement of the RCS of countermeasure decoy used for the deception of guided missiles likely to target naval platforms. In addition, Inverse Synthetic Aperture Radar (ISAR) capability of ALACA will allow creation of ISAR images of naval platforms. With these functions, ALACA will be a critical system for the survival of Turkish Navy's combat platforms.

Meteksan Defence, operates in six main areas; radar systems, perimeter surveillance systems, laser and electro-optic systems, communication systems, underwater acoustic systems and platform simulators, takes important roles in Turkey's main platform projects, such as corvettes, helicopters, unmanned aerial vehicles (UAV) and missile systems. The main indigenous products developed by Meteksan Defence include radar systems for helicopters and UAVs, perimeter surveillance radars for border and critical facility security, data links for missiles and UAVs, sonar systems and training simulators.

➡ **35 GHz Radar Cross Section (RCS) Measurement System for the Turkish Navy**

In line with the projects carried out by Turkish company Meteksan Defence in the field of radar systems, the agreement for design and develop of "35 GHz Radar Cross Section (RCS) Measurement System" for Turkish Navy was signed on July 13, 2018 between Turkish Navy Research Center Command (ARMERKOM) and Meteksan Defence Industry Inc.

The acceptance tests of ALACA 35 GHz RCS Measurement System, developed within the scope of the agreement, were successfully completed by Meteksan Defence and the system is delivered in December 2019 to Turkish Navy. ALACA will be used for; measurement of the RCS of the naval

➡ **Domestic KARGU-2 drones delivered to Turkish security forces**

The first batch of the domestically developed new generation kamikaze mini-drones was delivered to Turkish security forces, Defense Industry Presidency (SSB) Chairman İsmail Demir said in a statement he shared on his Twitter account .The Autonomous Tactical Multi-Rotor Attack Unmanned Aerial Vehicle (UAV) KARGU-2 was developed under a contract signed between the SSB and the Defense Technologies Engineering and Trade Inc. (STM).

The new frigate of the Hellenic Navy

Since about 2008, the Hellenic Navy is looking to procure new frigates, primarily for Anti Air Warfare (AAW) missions. Greece has been facing difficulties with this plan ever since, due to the financial constraints.

The Kortenaer/Elli class frigates need to be replaced by new designs while the Hydra class frigates need modernization and if possible upgrade in specific weapon systems. The oldest ship in the class is 41 years old (Kountouriotis, commissioned in 1978) while the youngest ship is 21 years old (Salamis, commissioned in 1998).

Greece is in the early stages of a potential acquisition of two midsize, multimission Belharra-class frigates from the French shipyards Naval Group. On 10 October 2019, the Greek Defense Minister Nikolaos Panagiotopoulos and his French counterpart Florence Parly signed a letter of intent (LoI) regarding the purchase of two Belharra-class.

France has launched the FDI program, worth €3.8 billion (\$4.2 billion), in April 2017, consisting of five frigates for the French Navy with delivery of the lead-in ship scheduled for 2023. Powered by diesel engines, the frigates will have a speed of 27 knots with a 5,000-nautical-mile endurance.

The ships will be able to accommodate a helicopter and/or unmanned aerial vehicle. Armaments will include air defence missiles MBDA ASTER 30 and Exocet anti-ship missile, an MU90 torpedo, and a 76mm navy gun. Thales will supply its Combat Management System, Sea Fire 500 digital radar, CAPTAS-4 towed-array sonar, Aquilon integrated naval communication system, and Sentinel Electronic Support Measures system for electronic warfare.

For Greece, the addition of the two Belharra-class frigates would mark a first step in the modernization of the Hellenic Navy. An order – if one follows – would amount to somewhere in the area of €1.5 billion. The French side is looking for financing from financial institutions for the procurement of the two frigates.

The Hellenic Navy Chief of Staff was foreign guest of honor at the Oct. 24, 2019, ceremony of first cutting of steel for the first frigate for defense and intervention (FDI), signaling Naval Group's aim to help close a sale of the new French warship.





In August 2019, Lockheed Martin, officially made known that the Hellenic Navy's new frigates acquisition program can be funded under the Foreign Military Sales (FMS). The US proposal relates either to the Littoral Combat Ship deployed with the US Navy, known as the FREEDOM class or the highest possible to a heavier-equipped configuration that will better meet Greek needs, the version of the Multi-Mission Surface Combatant (MMSC) designed to meet the needs of Saudi Arabia, which ordered 4 such vessels.

The MMSC is larger in displacement than the FREEDOM class – over 4,000 tonnes – and is 3 meters longer, a total of 118 meters because it has additional equipment to be able to perform both Anti-Submarine Warfare (ASW) and Anti-Aircraft Warfare (AAW) missions.

The MMSC utilizes the COMBATSS-21 Combat Management System, built from the Aegis Combat System Software library. The MMSC integrated combat system solution leverages the domestic LCS integration of the 57mm Mk110 deck gun and SeaRAM, and expands multi-mission capability through integration of Over-The-Horizon surface-to-surface missiles, port and starboard 20 mm remote guns, a new fire control radar and a forward centerline 8 cell MK 41 Vertical Launch System equipped with RIM-162 Evolved Sea Sparrow Missiles. The MMSC is also equipped with the AN/SLQ-25 Torpedo Defense system.

Operational and deployed today with the U.S. Navy as the primary anti-submarine warfare anti-surface weapon system for open ocean and littoral zones, the MH-60R SEAHAWK® helicopter is the world's most advanced maritime helicopter. It is the most capable naval helicopter available today designed to operate from frigates, destroyers, cruisers and aircraft carriers.

As far as the Arleigh Burke issue is not considered as a possible option. The Americans do not offer us Arleigh Burke-class vessels. They are unavailable at present and their intention is to maintain the existing ships in their fleet without any decommissioning of Arleigh Burke destroyers.

In addition Australia has moved forward on a possible sale of the Adelaide class FFG frigates to Greece as an interim solution to fill current operational requirements. Greek media sources indicated Australia requested a meeting to put forward an offer on the Adelaide class frigates.



Naval Group presents its industrial and academic cooperation plan with Greece

During an event at the French Embassy on the 13th of February, Naval Group unveiled its long-term cooperation plan developed to support the acquisition program of two FDI frigates (Belh@rra class) for the Hellenic Navy.

Naval Group, based in Athens since 2008, is proud to be an integral part of the strong strategic alliance between Greece and France. Thanks to its long-lasting presence in Greece, Naval Group created the conditions for a long-term cooperation with profits for the Greek industry and the creation of high-technology jobs. Naval Group has a robust expertise in building such partnerships worldwide.

Alain Guillou, Naval Group Executive Vice-President Development declared "This cooperation plan will support the Hellenic Navy in achieving regional superiority at sea, but also the ability of the Hellenic industry to actively prepare the future of naval warfare."

Investing to support the FDI program

Naval Group will share expertise and knowledge with the Hellenic Navy and industry to ensure the ships' availability over their 30-year lifespan.

Alain Guillou explained "We want to build a long-term partnership with the Hellenic industry and to guarantee the success of the frigate program as well as Hellenic sovereignty through an extensive transfer of technology. The local industry will master the know-how required to support the entire life-cycle of the frigates."

The follow-on support will be based on the creation of a Digital Support Centre, capable of securing and verifying the integrity of the ship's data. Naval Group's combined capabilities in terms of i-maintenance, artificial intelligence and big data will

ensure an improved operational availability and a reduced maintenance cost. Together with its

Hellenic partners, Naval Group will also support the training of both crews and maintenance teams of the Hellenic Navy with the best simulation technologies.

France will also be operating 5 FDI frigates (Belh@rra class) The first of class will be delivered in 2023 with an entry into active duty in 2025. The group plans on creating an Engineering Centre in charge of the design and development studies for future standards of the Belh@rra-class frigates, making Greece a European centre of excellence for naval warfare innovation.

Beyond Naval Group, the FDI program will bring different actors from the French naval industry to invest in the country and develop partnerships with Greek companies, creating added-value and jobs for decades to come. The FDI program already fostered the rapprochement of the two naval sectors with the GICAN and SEKPY signing a Protocol of Agreement at the same event at the French Embassy.

Increasing the industrial naval activity in Greece

The structured and long-term partnership with the Hellenic industry and naval ecosystem proposed by Naval Group will foster production in Greece but also the capability to address future needs.

"Naval Group has been working with the Hellenic Industry for many years. Sunlight in particular is a strategic supplier for Naval Group's submarines programs. We know the quality of the companies here and we want more to join our supply chain and to join us on-board our different programs" mentioned Alain Guillou during his speech.

Following the progress of the FDI program, 8 new Greek companies have joined Naval Group international supply chain in late 2019. They signed Letters of Intent during the 13th of February event regarding their involvement in future programs of the French group. About 20 more are currently being surveyed to join later this year.

Making Greece a centre for naval innovation

Regarding the longer vision of the program, Alain Guillou explained "the Belh@rra class frigates will integrate successive generations of systems over their 30-year lifespan. We want Greece to be at the centre of European naval innovation. We already signed partnerships with 3 universities but we want to go further with industry and academic partners



here to address the future needs of the frigates but also more largely the future of the naval sector.”

Naval Group has a strong interest in developing collaborative R&D projects with Hellenic companies, universities and research institute in cutting edge technologies such as additive manufacturing or drones. Naval Group aims at developing a network of technological and research projects so as to build the Hellenic future naval warfare capabilities. During the event, Naval Group signed partnerships with NTUA, University of Patras and the University of Crete.

Naval Group also intends to support the development of Greek startups by setting up a startup and SME accelerator. Naval Group is already working on cyber security applied to the naval and maritime domains with Greek partners in the frame of different European programs such as CYBERMAR as well as the PESCO Pandora and H2020 projects.

Finally, France and Greece share a common need for maritime surveillance. Naval Group proposes to create, together with Greek partners, an industrial and commercial activity that would address the European market from Greece. Naval Group has begun discussions with Hellenic companies in order to position itself on European research programs and to carry out joint projects.

Naval Group is a European leader in naval defence. As an international high-tech company, Naval Group uses its extraordinary know-how, unique industrial resources and capacity to arrange innovative strategic partnerships to meet its customers’ requirements. The group designs, builds and supports submarines and surface ships. It also supplies services to shipyards and naval bases. In addition, the group offers a wide range of marine renewable energy solutions. The group reports revenues of €3.6 billion and has a workforce of 14,860 (data for 2018).

Tactical Heron

Multi Mission Tactical UAS



Where Courage Meets Technology

Tactical Heron

Multi Mission Tactical UAS

New Generation Tactical UAS system based on the proven HERON UAS legacy

Main Features and Capabilities

Designed for tactical missions - incorporating cutting-edge technology:

- Multi-mission / Multi-payload configuration (up to 4 payloads simultaneously)
- Extreme weather capability
- Wide band Datalink / optional Satellite Communication (SATCOM)
- Short takeoff and landing (STOL)
- Automatic Taxi-Takeoff-Landing (ATOL) system
- Full automation capability
- Remote ATOL Capabilities
- Fast deployment & easy operation from unpaved airfields
- Certified electronic-controlled fuel injection engine
- Transportable system - land air and sea

Performance

Mission Radius:	LOS > 300km BLOS > 1500km
Endurance:	24hr
Ceiling:	23,000 ft
Loiter Speed:	60 - 80 KTAS
Max. Speed:	120 KTAS

Technical Data

Max. Takeoff Weight (MTOW):	600 kg
Payload Weight:	up to 180 kg
Length:	7.3 m
Wingspan:	10.6 m



Leonardo invests in the world's first solar-powered drone capable of perpetual flight with heavy payloads

Leonardo has invested in Skydweller Aero Inc., a start-up specialising in the development of a new generation of unmanned aircraft

Alessandro Profumo, CEO of Leonardo: "As the key technological investor and partner of the project, Leonardo will broaden its capabilities in new power systems, autonomous flight, innovative aerostructures, ultra-light materials and eco-friendly technologies to improve the Company's competitive advantage in the aerospace business for the next 20 years" Leveraging 15 years of airframe development, the Skydweller drone is expected to begin flight operations as soon as 2021

Skydweller's endurance and payload allow it to fill key gaps in many countries' integrated surveillance architecture. It enables improved situational awareness for military forces and more cost-effective utilisation of resources than with traditional systems

Rome, 8 November 2019 – Leonardo is accelerating the progress of technology and innovation in autonomous flight by investing in Skydweller Aero Inc., a US/Spanish start-up

specialising in large-scale solar-powered unmanned air systems. The initiative will result in the development and deployment of the Skydweller drone, the world's first atmospheric pseudo-satellite capable of carrying large payloads with unlimited range and ultra-persistent endurance.

"As the key technological investor and partner of the project, Leonardo will broaden its capabilities in new power systems, autonomous flight, innovative aerostructures, ultra-light materials and eco-friendly technologies to improve the company's competitive advantage in the aerospace business for the next 20 years", commented Alessandro Profumo, CEO of Leonardo.

As an atmospheric satellite, Skydweller combines the persistence of a geostationary satellite with the flexibility of an aircraft. It will operate from existing airbases around the world, deploy thousands of miles away to areas of high need, and remain overhead for orders of magnitude longer than current aircraft. This revolutionary platform will be used for purposes ranging from land and maritime surveillance to monitoring the environment and infrastructure, from industrial geo-information services to telecommunications and precision navigation. During emergencies and disaster-recovery situations, the system can be rapidly deployed from distant locations to provide backup communications and direct support to first responders.

The Skydweller project builds on a proven and mature aircraft that successfully circumnavigated the globe

in 2016. The first phase focuses on converting the aircraft from a manned platform into an Optionally-Piloted Vehicle (OPV) by integrating advanced autonomy algorithms and vehicle management systems. The second step of the project will culminate in the first production aircraft, designed solely for unmanned operations and hardened against a range of environmental conditions. Autonomous flights of the OPV are projected for 2020 and the first production model of the unmanned version of the aircraft is expected in 2021.

The system will comply with European export laws and will not be subject to International Traffic in Arms Regulations (ITAR) restrictions. This will enable the aircraft to satisfy government and commercial needs around the world. Leonardo will act as the prime contractor for commercial opportunities in Italy, the United Kingdom, Poland and NATO.

Development and construction of the aircraft will be carried out at the Skydweller facility in the Castilla-La Mancha region of Spain. Leonardo Aircraft division will participate in development and engineering activities via a dedicated team.



LEONARDO'S FALCO XPLORES DRONE COMPLETES FIRST FLIGHT



- The new Remotely-Piloted Air System (RPAS), the largest Leonardo has ever built, has successfully undergone its first test flight
- The Falco Xplorer offers persistent, multi-sensor strategic surveillance for military and civil customers, either as an integrated product or as a managed service
- Leonardo is a global leader in unmanned technology, with expertise across aircraft, sensors, mission systems and ground control stations
- Leonardo and the Italian Air Force's long-standing cooperative relationship is embodied by the technical and engineering support delivered by ITAF Test Flight Centre

Leonardo has announced the maiden flight of its new Falco Xplorer drone aircraft. Falco Xplorer S/N0001 took off from Trapani Air Force base on January 15, cruised over the Gulf of Trapani in a dedicated fly zone, for around 60

minutes and then returned to base, landing safely. The maiden flight is a significant milestone which has been achieved through technical and engineering support, at the test flight planning stages and with other related activities, by the Italian Air Force Test Flight Centre. The Remotely-Piloted Air System (RPAS), which combines endurance of over 24h with a max payload of 350kg, will now embark on a series of flight campaigns which will assess the aircraft's full range of capabilities including its integrated sensor system. These campaigns will also certify the Falco Xplorer against NATO's airworthiness STANAG 4671, dramatically expanding the territory over which it can operate.

The Falco Xplorer was first unveiled at last year's Paris Air Show. It has been designed to offer persistent, multi-sensor strategic surveillance to military and civil customers and can be procured as either an integrated system or as a fully-managed information-superiority service, flown and operated by Leonardo. With a maximum take-off weight of 1.3 tons and an operating ceiling above 24,000ft, the aircraft is an affordable and potent option for Intelligence Surveillance and Reconnaissance (ISR).

Previous Falco variants have been chosen by the United Nations and Frontex, the European border and coastguard agency. The Falco Xplorer design draws on feedback from these and other Falco customers. It features a powerful sensor suite, which includes the Company's Gabbiano T-80 multi-mode surveillance radar, its SAGE electronic intelligence system, an automatic identification system for maritime missions and an Electro-Optical (EO) turret. An optional hyperspectral sensor will allow the Falco Xplorer to monitor pollution and agricultural development. The native satellite link capability allows for beyond-line-of-sight operations, while its open system architecture means that third-party sensors can be easily integrated. Not subject to International Traffic in Arms Regulations (ITAR) restrictions and meeting the criteria for Missile Technology Control Regime (MTCR) class II, Falco Xplorer is readily exportable around the world.

The Falco Xplorer is designed by Leonardo, from the aircraft to its sensor suite, mission system and ground control station, making the company a 'one-stop-shop' for unmanned capabilities. Advantages of this approach include the ability to offer competitive pricing and the ability to draw on knowledge and experience from across the business to tailor a Falco Xplorer package to the precise needs of customers, whether in terms of technology or commercial arrangements.

First flight of Eurofighter in Kuwait Air Force configuration takes place – the most advanced variant of Eurofighter ever flown

On the 23rd December 2019 at the Flight Test Centre of Leonardo Aircraft Division in Turin-Caselle, the first Instrumented Series Production Aircraft (ISPA 6) equipped with the Kuwait Air Force configuration has successfully completed its first flight.

The aircraft is the first to fly the innovative Captor E-Scan Radar with Phase Enhancement P3Eb, and is a key milestone for the entry into service of Eurofighter with the State of Kuwait.

This standard is the most advanced variant of the fighter jet ever made, with a package of capabilities that builds effectively on existing enhancement programmes.

A contract for the supply of 28 Eurofighter Typhoon multi-role fighter aircraft was signed between the Ministry of Defence of the State of Kuwait and Leonardo (on 05 April 2016) through its Aircraft Division acting as Eurofighter Prime Contractor Organisation.

With Captor E-Scan radar and several new additions to the weapon system, this variant will put the Kuwait Air Force at the front-line of the fighter technology when the aircraft will enter into service with the State of Kuwait in 2020.

While other aircraft in different Eurofighter Partner Companies are testing specific parts of this configuration, including the development of the E-Scan radar in UK and Germany, this is the first flight of the entire package that will be delivered to Kuwait.

The capability package for Kuwait includes the integration of Storm Shadow and Brimstone and other air-to-surface weapons. Moreover it foresees the integration of a new advanced laser designator pod (the Lockheed Martin Sniper Advanced Targeting Pod) that will expand Eurofighter's portfolio of cleared laser designator pods; the introduction of the DRS-Cubic ACMI P5 combat training pod and an enhanced navigation aid (VOR).



IDE signs Cooperation Agreement with Krauss Maffei Wegmann

INTRACOM DEFENSE (IDE) signed a Memorandum of Understanding (MOU) with Krauss Maffei Wegmann (KMW) to cooperate on the deployment of a hybrid auxiliary power solution for LEOPARD 2 MBT variants, based on IDE's Hybrid GENAIRCON system and KMW's OEM platform integration expertise.

GENAIRCON is an integrated Hybrid Power Supply and Management vehicle system, part of IDE's advanced Hybrid Electric Power Systems (HEPS®) product portfolio.

GENAIRCON integrates best-in-class hybrid APU and ECU design with advanced energy storage, under a user-friendly central Control Unit. Vehicle electronics and electrically operated mechanisms (i.e. howitzer turret) can be powered from the on-board Energy Storage System, performing a true Silent Watch and achieving a unique tactical advantage.

GENAIRCON can also provide an external power output connection, thus transforming the GENAIRCON equipped vehicles into electric energy "hubs" for other platforms and external equipment.

This cooperation focuses initially on the needs of a significant number of fielded LEOPARD 2 MBT variants, which could take advantage of this operational capability upgrade.

The agreement between the two companies coincides with the on-going activities of IDE in cooperation with the Hellenic Ministry of Defence for the deployment of GENAIRCON onto the LEOPARD 2A4 MBT. The integration of the system onto the platform will enhance the MBT's auxiliary power resilience, mission sustainment, survivability through True Silent Watch capability and the lifecycle cost savings. These integration activities are expected to be completed within the first half of 2020.

IDE is a subsidiary of Intracom Holdings, one of the largest technology groups of Greece with significant international activity. IDE designs, develops and manufactures products and systems that incorporate advanced in-house developed technologies in the areas of Missile Electronics, Tactical Communication and Information Systems, Border and Area Security solutions, Hybrid Electric Power Systems and Unmanned Surface and Air platforms.

IDE is a registered NATO supplier and participates in international development and production programs, as well as in international collaborations for the production and export of defense equipment. For more information please visit: www.intracomdefense.com



Thales and Dassault Aviation win contract for France's new strategic airborne intelligence programme

- The French Armament General Directorate (DGA) has awarded Thales and Dassault Aviation the ARCHANGE[1] programme to strengthen France's signals intelligence (SIGINT) capabilities.
- Thales will work with Dassault Aviation on behalf of the DGA and the armed forces to integrate the CUGE[2] electronic warfare system on board Dassault's Falcon 8X aircraft.
- The ARCHANGE programme will be conducted in accordance with a new government directive on defence programmes (Ministerial Instruction 1618), which places added emphasis on agile, collaborative working methods.

On 30 December 2019, the French Armament General Directorate (DGA) awarded Thales and Dassault Aviation the contract to equip the French Army's future strategic intelligence aircraft with the CUGE universal electronic warfare capability. The contract covers the first two aircraft on the programme. CUGE will ultimately be deployed by three Falcon X aircraft, built by Dassault Aviation, to replace the two Transall C-160 Gabriel aircraft in service with the French Air Force from 2025.

With the ongoing development of digital technologies for the battlefield of the future, the armed forces are in the process of enhancing their intelligence capabilities. In the theatre of

operations, they need to manage ever more complex tactical situations in real time, deploying surveillance systems that enable the intelligence services to make the best decisions in a timely fashion.

Thales, in partnership with Dassault Aviation, the DGA and the armed forces, has developed a new generation of signals intelligence (SIGINT) technologies under several advanced study programmes. Thales will produce all the sensors for the SIGINT payload and integrate the overall system on board Dassault Aviation's Falcon 8X aircraft.

These new technologies will enable the system to detect and analyse radio and radar signals simultaneously for the first time, in particular thanks to Thales's multi-polarisation antennas and the use of its artificial intelligence technologies to automate data processing.

The information collected by the systems will then be analysed by monitoring and intelligence specialists and fed into armed forces databases. The programme also includes a ground-based training platform. Through this new programme, the French armed forces will once again rely on Thales expertise to significantly enhance their SIGINT capabilities, and will gain a crucial advantage through a better understanding of the strategic environment.

"The ability to anticipate developments is key to national security, and reliable intelligence is therefore a critical requirement to understand the risks and inform operational decisions. Thales, in partnership with Dassault Aviation, is proud to support the French armed forces on this strategic programme, which will bring the country new intelligence capabilities by developing the successor to the Transall Gabriel as part of Europe's defences." Nadim Traboulsi, ARCHANGE programme director for Thales.





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Head office
16 rue Attarchia Ariana Supérieur 2080 Tunis, Tunisia
Phone : +216 55 023 000 | Fax : +216 71 706 807

CONTACT US

contact@iadetunisia.com

+216 5 288 84 38 | +33 1 88 33 58 17 | +33 6 47 30 93 51



Germany procures Enforcer missiles from MBDA



MBDA has been awarded by the German Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINBw) a contract for the acquisition of Enforcer missile systems for the German Armed Forces. Signed on 20 December, the contract will fulfil the German requirement for a lightweight, day/night, precision-guided, shoulder-launched weapon system with an effective range of more than 1,800m.

Thomas Gottschild, Executive Group Director Strategy and Managing Director MBDA Germany said: "The German customer has chosen the Enforcer after a detailed, competitive evaluation for the 'Leichtes Wirkmittel 1800+' requirement. With this contract, we are partnering with

the German Armed Forces to ensure the Bundeswehr has this comprehensive weapon for years to come."

Éric Béranger, CEO of MBDA said : "With the addition of the shoulder-launched Enforcer, MBDA is now firmly embarked in a complete renewal of its family of battlefield engagement weapons that started with Brimstone 3 and MMP, a Medium Range missile introduced last year into the French Army. Enforcer, MMP and Brimstone now form the core of a portfolio that we hope will see many further developments."

Enforcer provides low-collateral precision effects capabilities against the threat from lightly armoured static and moving targets, targets behind cover, and against targets at long range also in urban environments. Resulting from a multinational MBDA development effort, the Enforcer will complement the 'Wirkmittel 90' shoulder-launched unguided munition capability in the German Armed Forces. MBDA is now set to complete qualification, and prepare for series production.

The modular design of the Enforcer system enables a range of future development options, including a prospective 'family' of Enforcer munitions for land, air and sea applications.

MBDA is the only European group capable of designing and producing missiles and missile systems that correspond to the full range of current and future operational needs of the three armed forces (land, sea and air).

With a significant presence in five European countries and within the USA, in 2018 MBDA achieved revenue of 3.2 billion euros with an order book of 17.4 billion euros. With more than 90 armed forces customers in the world, MBDA is a world leader in missiles and missile systems. In total, the group offers a range of 45 missile systems and countermeasures products already in operational service and more than 15 others currently in development.



Naviris, the JV between Fincantieri and Naval Group is now fully operational

venture. With the head office located in Genoa with a subsidiary in Ollioules, the Naviris team will focus on bi-national and export projects. Underlining the strategic and developmental will attributed by Fincantieri and Naval Group to the operation, Giuseppe Bono has been appointed Chairman and Hervé Guillou Member of the Board. Claude Centofanti, Chief Executive Officer and Enrico Bonetti, Chief Operational Officer, will run the joint venture. Parent companies are equally represented on the Board of Directors.

Naviris' objective is to create value for its customers through the following key areas:

- Common R&D projects
- Worldwide proposals
- Prime Contractorship and Design Authority
- Procurement optimization

Naviris foresees export and common French-Italians opportunities, such as the first studies for the Mid-Life Upgrade of the French and Italian Horizon-class destroyers, as well as European projects such as the development of the European Patrol Corvette light frigates.

"We are grateful to have received the unconditional support of our governments for the creation of a new European leader for the strategic sector of naval defense. Together, we will accelerate our technological advance and maintain our key differentiators by combining our R&D capabilities, renovating the products for the benefit of our customers. Naviris opens the way to a real construction of European naval defence," declared the two CEOs of Fincantieri and Naval Group, Giuseppe Bono and Hervé Guillou.

The first board meeting of Naviris, the joint venture between Fincantieri and Naval Group, took place. This partnership cements the shared desire of the two companies to build a future of excellence for the shipbuilding industry and Navies.

The Alliance is the natural evolution of the historical partnership already existing between two world leaders. With more than twenty years of cooperation, Naval Group and Fincantieri have already achieved success together: as early as the 1990s with the Horizon air defence destroyer programme (four ships) and with the FREMM multi-mission frigate program ongoing since 2005 (twenty vessels).

Naviris paves the way to the consolidation of European naval defence in response to the increasing pressure of worldwide competitors. Through Naviris, Fincantieri and Naval Group are pooling their strengths to develop a new strategic capability and respond in an innovative way to the needs of their customers. The two companies have established that Naviris is a 50/50 joint



Sea trials of Damen Mexican Navy frigate complete

ARM Reformador project shows economic impact of local shipbuilding



Working in close cooperation, Damen Shipyards Group, the Mexican Navy, subcontractors and suppliers have completed successful sea trials of the Mexican Navy's POLA-class ARM Reformador. The programme of sea trials was comprehensive, including testing of platform and combat systems in addition to training of Mexican Navy crews. The completion of these sea trials indicate how the project as a whole is progressing: on budget and actually a few weeks ahead of the contracted schedule.

The ARM Reformador is the latest example of how Damen forms partnerships with navies around the world to build naval vessels in local yards. In this way, the Dutch shipbuilding company is using its considerable amount of experience and expertise to build technologically sophisticated naval vessels in Damen customers yards or in third party yards.

Damen has built up a strong relationship with the Mexican Navy over the last decade. This has resulted in the construction and delivery of more than ten naval vessels of various designs. Damen has also worked closely with yards like the ASTIMAR 20 naval shipyard in Salina Cruz, Mexico, where the ARM Reformador has been built.

These collaborative efforts are ensuring a significant transfer of technology and knowledge into the Mexican shipbuilding industry. For example, in order to maximise the local impact of this current project, Damen has placed contracts at local companies for supplies and assistance during the construction of the ARM Reformador.

"This project is having a very positive impact on the local economy. More than 70% of the labour is being realised in Mexico – creating jobs and enabling local companies to develop their skills," notes Horacio Delgado, Damen's commercial manager for Mexico. "Thanks to our excellent cooperation with the Mexican Navy, we are ensuring that this vessel is being built in Mexico, by Mexicans, and for Mexicans."

The 107-metre long POLA-class ARM Reformador is the Mexican equivalent of Damen's SIGMA Frigate 10514. A key point here is that the ARM Reformador represents Damen's tenth time building a SIGMA Frigate. The implications of this are clear: the vessel that has been built for the Mexican Navy is a proven design that benefits from the wealth of knowledge possessed by the Dutch naval shipbuilding industry. This comprises

world-renowned research institutes and a dedicated naval cluster of international specialist suppliers such as Thales.

"This shows the real value of the project," adds Frank Verhelst, POLA project director at Damen. "Combining the many benefits of local construction with the high quality of Dutch naval shipbuilding – from Damen and our network of trusted suppliers and partners."

The ARM Reformador project is also a reflection of Damen's CSR policies. The company has contributed to various local social activities and projects while working in Mexico. Damen's support of the Mundo de Talentos in the State of Chiapas is an example of this. Mundo de Talentos (World of Talents) is the first sister school of IMC Weekendschool in Latin America and introduces students of limited resources from 10-13 years old to the world of interesting professions and study choices.

Damen Shipyards Group operates 36 shipbuilding and repair yards, employing 12,000 people worldwide. Damen has delivered more than 6,500 vessels in more than 100 countries and delivers around 175 vessels annually to customers worldwide. Based on its unique, standardised ship-design concept Damen is able to guarantee consistent quality.

Damen and Blohm + Voss selected for construction German MKS180 frigates



The German government has announced its intention to select Damen as the main contractor, together with partners Blohm + Voss and Thales, for supplying at least four Multi-Purpose Combat Ship MKS 180 frigates to the German Navy. The Dutch naval shipbuilder is extremely proud of, and satisfied with, the result of the evaluation process announced today by the German Government, though of course awaits parliamentary approval in Germany.

The ships will be built at Blohm + Voss shipyard in Hamburg and at other shipyard locations of the North German Lürssen Group. Damen intends to build in this way in order to spend around 80% of the total net investment as added value in Germany. The same applies to the electronic application systems that are supplied by Thales Nederland to its own design. Around 70% of the services will be provided by the German subsidiary of Thales and by other German subcontractors.

With the North German shipyard group Lürssen – parent company of Blohm + Voss – and the Damen Shipyards Group, the partnership is based on two stable family businesses that have been successfully active in marine and commercial shipbuilding for more than 140 years.

The only naval builder in the Netherlands is pleased with this selection to be main contractor in the German project and the division of work between German and Dutch industry. For the Netherlands, it provides national knowledge and expertise. This offers the Dutch Government the option, in the coming Dutch naval construction projects for frigates and submarines, to have these types of strategic programmes devised, engineered, managed and deployed in their own country. The MKS 180 project contributes to securing the export power and self-creation of both Dutch and German naval construction in the longer term. The project also opens perspectives for the requested European (defence equipment) cooperation.

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Damen's focus on standardisation, modular construction and keeping vessels in stock leads to short delivery times, low 'total cost of ownership', high resale values and reliable performance. Furthermore, Damen vessels are based on thorough R&D and proven technology. Damen offers a wide range of products, including tugs, workboats, naval and patrol vessels, high speed craft, cargo vessels, dredgers, vessels for the offshore industry, ferries, pontoons and superyachts. For nearly all vessel types Damen offers a broad range of services, including maintenance, spare parts delivery, training and the transfer of (shipbuilding) know-how. Damen also offers a variety of marine components, such as nozzles, rudders, winches, anchors, anchor chains and steel works.

Damen Shiprepair & Conversion (DSC) has a worldwide network of eighteen repair and conversion yards of which twelve are located in North West Europe. Facilities at the yards include more than 50 floating (and covered) drydocks, including the longest, 420 x 80 metres, and the widest, 405 x 90 metres, as well as slopes, ship lifts and indoor halls. Projects range from the smallest simple repairs through Class' maintenance to complex refits and the complete conversion of large offshore structures. DSC completes around 1,300 repair and maintenance jobs annually, at yards as well as in ports and during voyage.

Thales to provide Royal Navy with the most advanced mission systems to protect UK maritime interests globally



- Thales is proud to be delivering the digital heart of the UK's next generation Type 31 Frigates
- Thales to expand its footprint in the UK with the opening of a new Naval Combat Management Centre in Crawley (West Sussex) and increase its mission system capabilities and future growth.

Thales, as part of Babcock Team 31, has been selected to deliver the digital heart of the UK's next generation frigates. Thales will be the mission systems integrator for the Type 31 programme, delivering the combat system, communications systems and the navigation and bridge system. The T31 general purpose frigate programme will provide the UK Government with a fleet of five ships, at an average production cost of £250 million per ship.

Following a comprehensive competitive process, T31, a capable, adaptable and technology-enabled global frigate will be the UK Royal Navy's newest class of warships, with the first ship scheduled in the water in 2023.

At its height, the programme will maximise a workforce of around 1250 highly- skilled roles in multiple locations throughout the UK, with around 150 new technical apprenticeships likely to be developed. The work is expected to support an additional 1250 roles within the wider UK supply chain.

Building on our global successes Thales is expanding its capabilities in mission systems delivery in the UK. This will generate new jobs and technical skills in Crawley, West Sussex where the new team has been established. A new naval combat management centre has also been developed to provide a space for customers, employees and end-users to train, test and see how our solutions deliver operational benefits and to continuously gain customer feedback.

"Thales has been at the forefront of innovation with the Royal Navy for over 100 years. We are immensely proud of the trusted critical solutions we provide to the Royal

Navy to protect our waters. This means we can continue to expand our significant UK footprint whilst also looking to export markets." Victor Chavez, Chief Executive of Thales in the UK

Tacticos is the mission system and has been designed from the outset to be open and provides access to the core data model via open published standards that can be used to enable continuous growth and evolution through life.

Type 31 will offer the Royal Navy a new class of ship with a proven ability to deliver a range of peacekeeping, humanitarian and warfighting capabilities whilst offering communities and supply chains throughout the UK a wide range of economic and employment opportunities.

A key element of the Type31 programme is to supply a design with the potential to secure a range of export orders thereby supporting the UK economy and UK jobs. Type31 will offer export customers an unrivalled blend of price, capability and flexibility backed by the Royal Navy's world-class experience.

Type 31 is a multi-role frigate equipping today's mariner with real-time data to support immediate and complex decision-making.

ORGANISE YOUR EQUIPMENT MORE EFFICIENTLY THAN EVER WITH THE NEW PELI™ HYBRID CASES



NOW COMBINING THE VERSATILE TREKPAK™ DIVIDERS AND CUSTOMISABLE PICK N PLUCK™ FOAM

Users no longer have to choose between the versatility of the TrekPak™ divider system or the protection of Pick N Pluck™ foam. Peli now offers the new Peli™ Hybrid Cases. Available as a new standard offering in either the Peli™ 1510 or Peli™ Air 1535 Carry On Case, the interior features both the TrekPak™ system and the classic Pick N Pluck™ manually customisable foam.

"This new, extremely versatile configuration offers users the best of both worlds and a host of new organisational options," said Pavel Levshin, Product Marketing Manager EMEA.

TrekPak™ Divider System

Case owners simply need to lay out their gear the way they wish for it to include it in the case, measure and cut the divider sections, and lock them in place with the provided U-pins. Each divider section is manufactured from a waterproof, closed-cell foam that is laminated to a rigid corrugated plastic panel. They are light weight, strong and almost impossible to tear or shred. Additional divider panels are available separately to switch up the layout any time.

Pick N Pluck™ Foam

Classic and simple Pick N Pluck™ foam is pre-scored and cubed for easy manual customisation and offered standard in almost all Peli™ case models. Replacement foam is available separately when the interior layout changes.

The Peli™ Air 1535 Carry On case is engineered with a next generation polymer construction that is up to 40% lighter than standard Peli™ Protector Case™ brand cases, yet still stands up to the harshest conditions on earth. It also features a removable rugged ID card holder. Since its introduction in 2004, the Peli™ 1510 Carry On case has been the industry standard for travelling with sensitive equipment that users don't want to check in*(*always check with your airline for exact measurement requirements). Its extremely tough polymer construction protects mission critical equipment in worst case scenarios.

Both cases contain a robust pull handle coupled with smooth stainless steel ball bearing wheels for effortless transport, a polymer O-ring for a dust and water-resistant seal, and an integrated automatic pressure equalisation valve that keeps moisture out and prevents vacuum lock, ensuring the case is easier to open at any altitude. Available in black only, both cases are backed by the Peli Products Legendary Guarantee of Excellence.

Peli Products, S.L.U. is the Europe, Middle East and Africa Headquarters of Pelican Products, Inc., the global leader in design and manufacture of both **high-performance case solutions** and **advanced portable lighting systems**. Our products are used by professionals in the most demanding markets including firefighters, police, defense / military, aerospace, entertainment, industrial and consumer. Peli products are designed and built to last a lifetime. The company operates in 140 countries, with 28 offices and 6 manufacturing facilities across the globe. Peli Products is a portfolio company of Behrman Capital, a private equity investment firm based in New York and San Francisco. For more information, visit www.Peli.com

Osprey Successfully Completes First Flight

The first CMV-22B Osprey, built by Bell Textron Inc a Textron Inc. company, and Boeing, completed first flight operations at Bell's Amarillo Assembly Center. The CMV-22B is the latest variant of the tiltrotor fleet, joining the MV-22 and CV-22 used by the U.S. Marine Corps and U.S. Air Force.

The U.S. Navy will use the CMV-22B to replace the C-2A Greyhound for transporting personnel, mail, supplies and high-priority cargo from shore bases to aircraft carriers at sea. Bell Boeing designed the Navy variant specifically for carrier fleet operations by providing increased fuel capacity for the extended range requirement. The mission flexibility

of the Osprey will increase operational capabilities and readiness, in addition to ferrying major components of the F-35 engine.

"The first flight of the Navy's CMV-22B marks a significant milestone for the V-22 program and for Naval Aviation," said Chris Gehler, Bell V-22 Vice President and Bell Boeing deputy program director. "The Osprey has always been a revolutionary aircraft, and we look forward to continuing to support the evolving needs of the Navy with advanced tiltrotor capabilities."

Bell Boeing will deliver the first CMV-22B to Air Test and Evaluation Squadron (HX) 21 in early 2020 for developmental test.

On 2 July 2018, Bell Boeing Joint Program Office, was awarded \$4,191,533,822 for modification P00008 to convert the previously awarded V-22 tiltrotor aircraft advance acquisition contract (N00019-17-C-0015) to a fixed-price-incentive-fee multiyear contract. This contract provides for the manufacture and delivery of 39 CMV-22B aircraft for the Navy; 14 MV-22B aircraft for the Marine Corps; one CV-22B for the Air Force; and four MV-22B aircraft for the government of Japan.

The U.S. Navy will use its new CMV-22B for transporting personnel and cargo from shore to aircraft carriers, eventually replacing the C-2 Greyhound, which has been in service since the mid-1960s.





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