

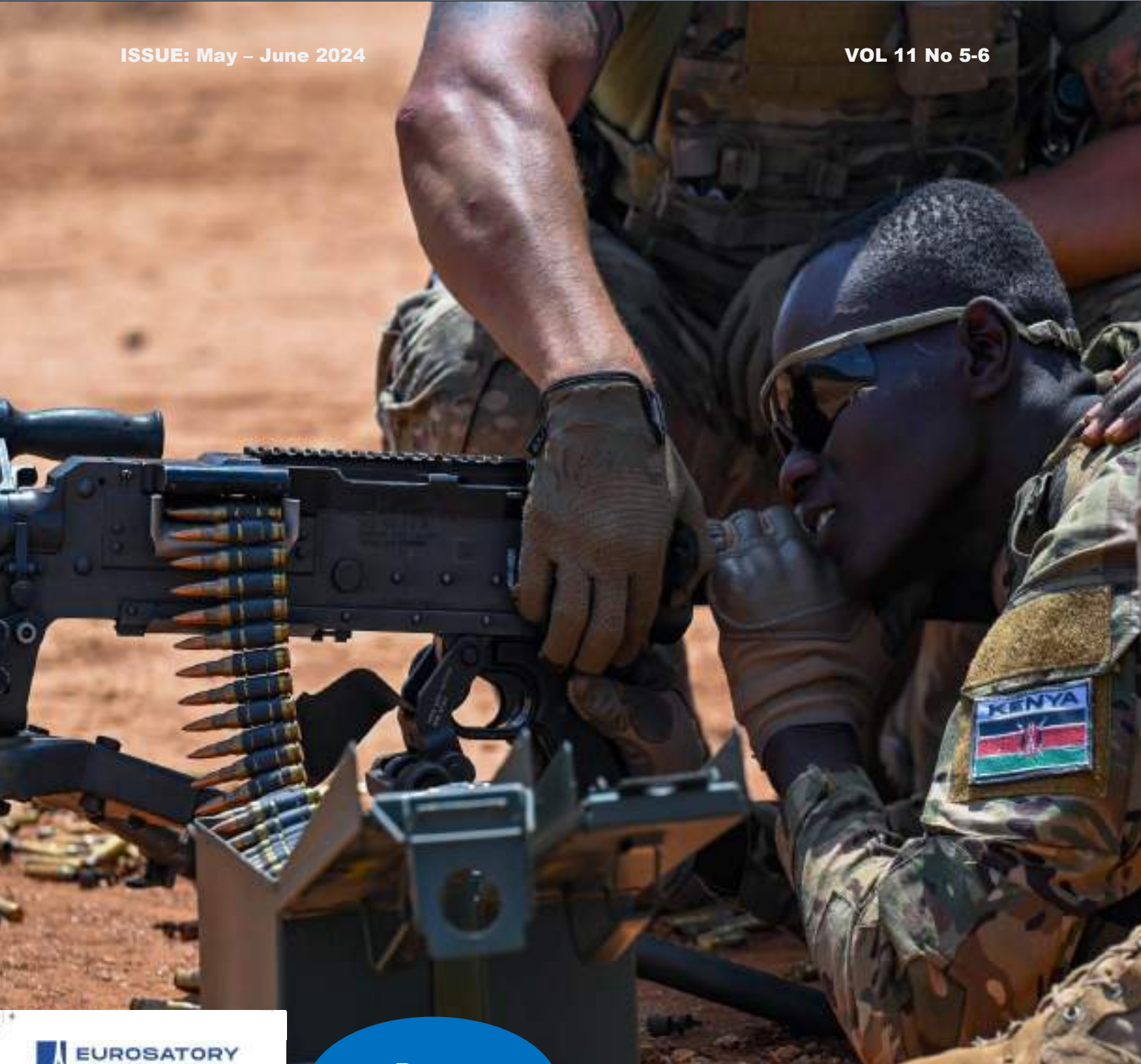
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Modern Corvettes

Modern Corvettes are typically dimensionally smaller than Frigates though larger than Offshore Patrol Vessel (OPV). Differences between modern Frigates and Corvettes are blurred - some navies consider certain vessels to be Corvettes when they could technically be defined as Frigates. Corvettes supply a balanced mix of firepower, ocean-going capabilities, and rotary-wing support while presenting reasonable economic benefits in terms of construction and procurement costs. Not every major naval power emphasizes the Corvette as part of its surface fleet - though they are consistently found in numerically smaller navies.

The modern roles that a corvette fulfils include coastal patrol craft, missile boat and fast attack craft. These corvettes are typically between 500 and 2,000 tons. Recent designs of corvettes may approach 3,000 tons and include a hangar to accommodate a helicopter, having size and capabilities that overlap with smaller frigates. However, unlike contemporary frigates, a modern corvette does not have sufficient endurance nor seaworthiness for long voyages.

The operational viability of these types of ships has undergone definite developments over the years. The role assigned to this warship has thus been steadily evolving with remarkable technical developments resulting in a much wider operational ambit for the corvette vessels. Presently, many countries are coming up with technological inputs to solidify the structural format of these vessels, allowing them to play a much huger role in their maritime operations.

NVL Corvettes

NVL Corvettes use advanced technology to provide potent combat capabilities at an affordable price. Embodying enhanced survivability to allow the safe completion of a wide variety of missions, NVL corvettes have great value that has been recognised by a repeat order from the German Navy. Capable of effective yet economical operation, corvettes from NVL Group represent a powerful addition to a fleet. Whatever client budget, corvettes from NVL Group provide clients with a proven and reliable means of conducting successful naval combat operations, whenever the need arises. Precisely customisable for client requirements, NVL Corvettes can be constructed to comply with national or classification society naval rules. NVL build sturdy and resilient ships using steel hulls that incorporate tested and proven hull forms. These are combined with steel or aluminium superstructures, depending on specific design priorities. Displacements range from 600 to 2,700 tonnes whilst lengths are between 60 and 120 metres.

NVL pays particular attention to achieving high levels of survivability. Integration of NBC protection and provision of full redundancy for critical ship systems are important design priorities. Stability, another critical consideration, is maintained even in extreme situations. We also focus on signature reduction to mitigate a broad spectrum of emissions. NVL corvettes are designed to be agile and manoeuvrable. Multiple diesel engines are linked to twin shaft lines fitted with controllable pitch propellers. This arrangement permits fuel-efficient, single-shaft operation. Economy can be further enhanced by optional electrical propulsion. Maximum range is up to 10,000 nautical miles whilst endurance can extend to 30 days. Extensive automation and high standards of accommodation help to maintain crew efficiency, even during lengthy deployments.

© NVL



N·V·L



NVL CORVETTES

GERMAN ENGINEERING BUILT ABROAD

NVL Group, formerly known as Lürssen Defence, is an independent, privately owned group of renowned northern German shipyards and related companies. We deliver high-quality, tailored and cost-effective naval vessels and coastguard vessels, built either at one of our shipyards or in your country under knowledge and technology transfer agreements to develop the country's maritime industry. The NVL Group's corvettes are a powerful addition to your fleet, working effectively and economically to achieve your goals. Furthermore, we provide sustainability support for existing fleet structures in the form of upgrades, spare parts supply, training and other services in your country to maximise the operational readiness of your fleet.

For more information, simply call us on +49 421 6604 344 or visit our website at www.nvl.de

THE DNA OF SHIPBUILDING



© Israeli Shipyards



NVL Corvettes are optimised for the required combat missions. They are equipped for effective self-defence against aerial attacks, whilst the configuration as an anti-submarine, anti-air or anti-surface warfare corvette determines the operational purpose. All our corvettes are well-suited for conducting a broad range of high-intensity duties. These can extend from fleet protection deployments to littoral operations, including electronic warfare and intelligence-gathering assignments.

Israel Shipyards corvettes

Israeli Shipyards introduced the new SAAR S-80 multirole corvette during the Euronaval 2022 exhibition held in Paris. The SAAR S-80 corvette joins the company's unique tailor-made solutions, designed and constructed with strict quality assurance and long-term service at the Israel Shipyards facility. Based on Israel Shipyards Ltd. (ISL) S-72 platform, from which several designs have been evolved, including the Israeli Navy Light Patrol Corvette– the RESHEF Class, an advanced multi-roll vessel. The new generation of the S-80 class features greater versatility and higher payload capacity, with increased weapon suite capacity and wider spread of Electronic Warfare (EW) systems as part of the platform offensive advantages. The S-80 length is 80m, she is powered by 4 diesel engines, two shaft lines, and equipped with controllable pitch propellor system and the top speed exceeds 28 knots. The S-80 will be equipped with state-of-the-art ship control system, a health management system and she will be capable of being equipped with the combat systems made by the Israeli

defense industries or and any equivalent systems according to the customer requirements. The S-80 can be adjusted with suitable systems to a missile Corvette or as an OPV version.

The S-80 allows longer range and endurance for extended periods with reduced detection risks, making it ideal for diverse applications and missions. Similar to the current Naval vessels of Israel Shipyards, the new Corvette is also supporting unique possibilities of deploying Special Forces units.

Specifications:

LOA (Length Over All): 80m

Beam Max.: 11.0m

Displacement: About 1000tons

Max Speed: Above 28knots

Range @ 12knots: 3500M

Naval Group corvettes



© Naval Group

Gowind® is Naval Group's response to 21st century security and defence challenges. It is a corvette-size

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multi-mission Surface Combatant offering capabilities in all areas. It is designed to perform the full spectrum of naval defence operations and maritime security roles, with the highest level of performance.

Sturdy, strongly equipped, highly manoeuvrable, Gowind® integrates, through Naval Group's SETIS® Combat Management System (CMS) and innovative structural solutions, the latest generation sensors and weapons. Designed to be used against air, surface or underwater threats from the initial steps of the engineering process, Gowind® is multipurpose by design.

Gowind® is a sea proven, enduring, stealth and highly survivable platform offering:

- high performance warfare capabilities integrated through the SETIS® CMS and an efficient and innovative Panoramic Sensors and Intelligence Module (PSIM)
- automated systems for user-friendly operations by an optimized crew
- large and smart deployable assets (heavy helicopter, UAVs, RHIBs)
- growth potential driven by customer requirement and innovation

Technical features

- overall length: 102 m
- overall beam: 16 m
- displacement: 2,800 t

Fincantieri corvettes



© Fincantieri

Designed and built by Italian shipyard Fincantieri, the "Abu Dhabi class" corvette for the United Arab Emirates. Vessel size, high performance, transport and support capability are optimized to play different roles such as: escort, support, relief, interdiction and patrol operations.

The Qatari corvette measures 107m long and features CODAD power capable of propelling each ship up to a maximum speed of 28kt. The corvettes can deploy a rigid hull inflatable boat via a side crane and stern ramp and boast a hangar to accommodate an NH90-sized helicopter. Was laid

down in February 2021 and launched in March 2022 at the shipyard.

The corvette's armament includes a 76mm main gun from Leonardo, 16 VLS cells for MBDA ASTER 30 surface-to-air missiles, two Leonardo Marlin 30mm remote weapon stations, eight MBDA Exocet MM40 Block IIIs and a Raytheon RAM launcher for 21 missiles for short-range air defence.

Fincantieri's FCx30 corvette an advanced naval platform embodying excellence across all warfare domains. These vessels stand as a testament to naval innovation, boasting a full load displacement of 3,200 tons, a length overall of 107 meters, and a maximum speed exceeding 26 knots.

The FCx30 corvettes represent a paradigm shift in naval design, featuring an array of state-of-the-art technologies optimised for performance and survivability. Fincantieri's FCx30 corvette is an advanced naval platform embodying excellence across all warfare domains. These vessels stand as a testament to naval innovation, boasting a full load displacement of 3,200 tons, a length overall of 107 meters, and a maximum speed exceeding 26 knots.

Milgem Class corvettes



© STM

Milgem Class corvettes are being built for the Turkish Navy under the Turkish national warship programme known as Milgem. The Milgem Class multimission corvettes feature stealth technologies and can perform search, rescue, patrol, observation and anti-submarine warfare operations. The keel was laid for the first vessel, TCG Heybeliada (F-511), at the Istanbul Naval Shipyard in July 2005. The Pakistani and Ukrainian Navy have acquired the Milgem class warships.

The Milgem corvette has an overall length of 99m, a waterline length of 90.5m, a beam of 14.4m and a design draft of 3.6m. The displacement of the vessel is 2,000t.

The corvette is equipped with the GENESIS system developed by Havelsan. The vessel has an internal sonar developed by the Scientific and Technological Research Council of Turkey and manufactured by STM ONUK-BG Defense Systems. The sonar uses



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DAMEN Corvettes



© Damen Shipyards

The SIGMA 9113 Corvette for Indonesia (contract signed in 2004 and the first of four delivered in 2007), was the first of our systematic hull form series to be delivered. The SIGMA technology is based on the experience gained by building seven generations of frigates for the Royal Netherlands Navy with dimensions Length o.a. 90.71 m Beam mld 13.02 m Depth no.1 deck 8.75 m Draught (dwl) 3.60 m Displacement (dwl) 1700 tonnes. SIGMA Corvettes are perfectly adapted for naval patrol and maritime security operations. They provide fighting capabilities in all warfare segments (AAW, ASW, ASuW), all to military standards. They represent the perfect solution for situational awareness and defence of essential security interests at sea.

Visby class corvette



© Jimmie Adamsson/Swedish Armed Forces

The Visby class is a series of corvettes in use by the Swedish Navy. It is the latest class of corvette adopted by the navy after the Göteborg and Stockholm-class corvettes. Its design emphasizes low visibility radar cross-section and infrared signature, and the class has received widespread

international attention because of its capabilities as a stealth ship. The first ship in the class is named after Visby, the main city on the island of Gotland.

The Visby ships are designed by Swedish Defence Materiel Administration (FMV) and built by Saab Kockums AB in Karlskrona. The first ship of the class was launched in 2000, but production then suffered repeated delays. The fifth and final ship was delivered in 2015. In January 2021 Saab and the Swedish Defense Materiel Administration (FMV) signed a contract for the mid-life upgrade of the five Visby corvettes. The MLU will include the installation of surface-to-air missiles, the implementation of upgraded anti-ship missiles and anti-submarine torpedoes, improved sensors and enhanced electronic warfare capabilities. The upgrade of all five ships will be completed before 2030 and the MLU aims to keep the Visby corvettes operationally relevant beyond 2040.

Thyssenkrupp Marine Systems



The MEKO® A-100 Patrol Corvette is the smallest version of the A-100 family, with a displacement in the 2,200 ton class. The MEKO® A-100 Patrol Corvette is a combination of a compact and very affordable platform with powerful and flexibly scalable performance options for platform and combat suite. The ship retains the aviation support and mission modularity features of the bigger vessels in the A-100 family, and has the ability to be upgraded to threedimensional warfare, utilizing the full spectrum of the MEKO® platform, combat system and mission modularity technologies. This inherent performance growth potential allows for the acquisition of the ship in a basic and very cost-effective configuration for the patrol and surveillance roles, but one that is easily upgradeable across its life to full combat roles when budgets or operational demand allows. A scalable state-of-the-art C³ system integrates an advanced sensor suite with a powerful hardkill and softkill weapon and effector load, including the upgrade potential for up to 12 x VL SAM cells, up to 8 x heavy anti-ship missiles, CIWS, ECM decoys and ASW torpedoes.

*Dimitrios Angelopoulos M.Sc.
Captain (Rtd)HN*

Advisor on Defence and Maritime Security issues



EURONAVAL 2024, NEW VENUE: Paris Nord Villepinte

EURONAVAL, the world's leading naval defence exhibition, will be held for its 29th edition from 4th to 7th November 2024 at the Paris Nord Villepinte Exhibition Centre (hall 6). Organised by SOGENA, a subsidiary of the GICAN (French Maritime Industry Group), this biennial event will once again serve as a strategic crossroads for the world's naval industry players.

Due to the Paris 2024 Olympic and Paralympic Games, which will be making use of the Le Bourget exhibition centre until quite late in the year, the 2024 edition of EURONAVAL will be held at the Paris Nord Villepinte exhibition centre for the first time.

This year's edition will take place in a geopolitical context marked by armed conflicts and high-risk international crises, revealing more than ever the importance of controlling maritime spaces and the need to strengthen the naval capabilities of maritime countries.



In a constantly evolving technological sector, EURONAVAL, which has been presenting and accompanying developments in the naval sector for over 50 years, will be the essential exhibition in November 2024 for discovering the latest innovations and trends in digitisation, onboard artificial intelligence, drones, ships and naval equipment.

At EURONAVAL 2024, the 25,000 expected visitors will have the opportunity to attend a large number of conferences, round tables, workshops, interviews and presentations, particularly in the four discussion areas: The TV platform: building on the success of the EURONAVALS TALKS, broadcast regularly throughout the year, a TV platform located in the centre of the exhibition will be the ideal venue for high-level round tables and discussions led by journalists specialising in defence issues.

BRAZILIAN DEFENSE SYSTEM HOUSE

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ILLUSTRATIVE IMAGES

GAF PARTICIPATES IN EXERCISE AFRICAN LION

Operatives from the Ghana Army Special Forces and the Ghana Navy Special Boat Squadron have participated in Exercise African Lion in Morocco from 15-28 May 2024. The 2024 edition of the annual military exercise involves operatives from USA, Hungary, Israel and Ghana.

It focuses on enhancing interoperability, promoting regional stability and strengthening military to military relations. Participants engaged in a wide range of training activities including live firing exercises, medical training, fast roping and close quarter battle drills to test the ability of troops to work together effectively in a variety of scenarios.

Addressing the exercise troops, the Commanding Officer of Morocco's Special Forces, Colonel Farid Ouahabi said the exercise has enhanced the skills of Moroccan Special Forces. He added that it has helped exchange knowledge and forged lasting partnership which he emphasized would help to tackle complex challenges and share best practices.

Ghana, USA, Hungary, and Israel Operatives share expertise, strengthen military relations during Exercise African Lion

Joint Exercise Activities Red Wave-7

The Joint Exercise activities (Red Wave-7) concluded with the participation of personnel from the Navy Forces of Egypt, Saudi Arabia, Jordan, Yemen, and Djibouti which lasted for several days in the territorial waters of the Kingdom of Saudi Arabia. This comes within the framework of the joint training plan of the Egyptian Armed Forces with friendly and brotherly countries.

The Exercise included several sessions aimed at unifying the concepts of joint work among all participating personnel, as well as training to counter Zodiac boats attacks, practicing the right of visit and inspection, and executing various sailing formations which demonstrated the cohesion among the joint units in the Exercise.

The final phase of the Exercise included carrying out a practical demonstration on storming one of the coastal islands under the cover of aerial bombardment by the Air Force personnel, in addition to providing air support to the forces and reconnaissance of the island coast, securing it, in preparation for the advancement of the forces and the successful execution of the storming.

The final phase of the Exercise was attended by a number of Navay Commanders from the participating countries in the Exercise, as well as a number of students from the Egyptian Naval College and the Military Technological College.

© <https://www.mod.gov.eg>



CDS COMMISSIONS EQUIPMENT FOR UNIFIL

The Chief of the Defence Staff, (CDS) Lieutenant General Thomas Oppong - Peprah has commissioned newly inserted Contingent Owned Equipment (COE) at the Kofi Annan Square of the Battalion Headquarters on Wednesday 22 May 2024. The vehicles and the equipment commissioned for the Ghanaian Battalion (Ghanbatt) serving with the United Nation Interim Force in Lebanon (UNIFIL) include 52 High Mobility Light tactical vehicles, a Rosa Mitsubishi Fuso Bus and 1,075 pairs of fragmentation jackets.

The effort was in fulfilment of the requirements of the memorandum of understanding between the United Nations (UN) and the Government of Ghana to enhance the operational efficiency of the Ghanbatt. The Ghanbatt clergy; Captain Eric Antwi and Lieutenant Abdul-Majeed Shuaib Suleiman dedicated the vehicles for use. The CDS cut the tape for the vehicles to be deployed for the operational and administrative duties in the operational Area of UNIFIL.

Lt Gen Oppong-Peprah, in his remarks, stressed the need for defence companies to establish joint ventures with the GAF. He opined that such

The CDS called for good care and maintenance of vehicles and urged drivers to use the appropriate vehicles at the right time. Present were Air Commodore Joseph Adu-Gyamfi, Air Commodore Reginald Yaw Cole, Brigadier General Fuseini Salifu, Col George Abosi Oppong, Lieutenant Colonel Frank Kwesi Agyeman and Wing Commander Ibrahim Anas Eliasu.

© GAF



RHEINMETALL-MAN DELEGATION CALLS ON CDS

- **Rheinmetall-MAN Group builds strong ties with Ghana Armed Forces**

A delegation from Rheinmetall-MAN Group led by the Chief Executive Officer of Krane International Ghana, Mr Kaff, has paid a courtesy call on the Chief of the Defence Staff (CDS), Lieutenant General Thomas Oppong-Peprah.

The meeting held at the office of the CDS General Headquarters in Burma Camp, on Tuesday 14 May 2024 aimed to build stronger ties between Rheinmetall-MAN and the Ghana Armed Forces (GAF).

partnership would ensure the gradual transfer of technology, create employment and ensure availability of spares to the GAF. The CDS further revealed that partner companies could also have a hub in Ghana, leverage on cheap labour and readily service the regional defence market.





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NVL Group understands the growing importance of the geostrategic aspects of the African continent in respect to natural resources and protecting the sovereignty, integrity, economy and wealth of the various African nations. The company has a strong reputation and expertise in tailor-made concepts and solutions for coastal defence and maritime security.

Maintaining security

Today's navies face a broad spectrum of challenges in maintaining security in a fast-changing maritime environment. These geostrategic aspects mean that

nations require affordable, versatile and fast platforms to operate successfully in territorial waters and to protect against traditional threats. Whether the mission is protecting economic resources, countering criminal activity or safeguarding life at sea, a flexible and effective response is essential. At NVL Group, we recognise the importance of building vessels that are easy and economical to operate yet still deliver superior levels of performance.

Customised platforms for any naval requirement

NVL Group provides state-of-the-art patrolling solutions for every kind of

challenge and threat, such as patrol boats, offshore patrol vessels, corvettes, frigates, minehunters or naval support vessels.



• **Territorial sea (<12 nm)**

Offering high speeds of over 40 knots, NVL Fast Patrol Boats can quickly respond to challenges. High performing and with excellent seakeeping characteristics, these boats are ideally suited for interception and patrolling territorial waters.

• **Contiguous zone (<24 nm)**

No matter how long a coastline is, contiguous zones are best patrolled by NVL Patrol Boats, which are characterised by their speed, performance and versatility. The proven design guarantees maximum reliability and endurance.

• **Exclusive Economic Zone (200 nm)**

The Exclusive Economic Zone (EEZ) is best patrolled by offshore patrol vessels built

by NVL Group. Their multirole and multimission platforms provide permanent maritime security in the operational area due to their endurance and excellent seakeeping capabilities.

Strong support for cost-efficient naval vessel operations

Whatever the requirement, NVL Group works in partnership with its customers to establish the right solutions. We offer the option to build vessels at one of our NVL Group shipyards, or we can transfer both our knowledge and technology to develop our partner's maritime industry. In all cases, we focus on delivering technically advanced, high-quality ships that balance a navy's operational needs with its available budget. NVL Group also provides

sustainability support for existing fleet structures in the form of upgrades, spare parts supply, training, technology and knowledge transfer, and other services to maximise the potential of any navy vessel.

Your naval solution

NVL Group provides you with feasible and economical solutions to fulfil the tasks of today and overcome the challenges of the future. We aim to ensure each ship entrusted into our care remains mission-ready at every stage of its operational life. NVL Group maritime patrolling solutions offer reliable and versatile multi-mission performance, providing a cost-effective yet comprehensive means of meeting maritime security needs across the seven seas.



The maritime zones (from left to right): territorial sea, contiguous zone, EEZ



NVL Group works closely with the customer to enable local build and the transfer of knowledge and technology



FIB 25 fast interceptor boat



NVL Group is a privately owned group of renowned Northern German shipyards and related companies, formerly known as Lürssen Defence. Customers can rely on the company to consistently provide tailored, smart and cost-effective naval solutions that keep navies mission-ready around the world. With deep roots in shipbuilding, NVL Group delivers high-quality naval and coastguard vessels, as

well as comprehensive services throughout the entire life cycle of their fleets. Construction at NVL Group's shipyards is supplemented by licensed manufacture at customer facilities worldwide under technology transfer arrangements. As an independent enterprise, the company remains flexible to market changes and operates a dynamic, safe and future-oriented business.

More about NVL Group's naval solutions:

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THE DNA OF SHIPBUILDING

Atech and Border Defense

The Embraer Group company develops technological solutions for land, maritime, air, and cyber security

Atech, a Brazilian company part of the Embraer Group, stands out for its expertise in advanced defense systems for operations on land, air, sea, and cyberspace. The company is internationally recognized as a developer of technological solutions for critical missions and as a systems integrator for decision-making support. With 100% customized solutions, Atech significantly contributes to the efficiency and protection of operations in any scenario, enabling coordinated and incisive responses from defense and security forces to different threats.

One of the most complex and challenging scenarios faced by many countries is the protection of borders – land, sea, or air. It generates great logistical and operational challenges for the prevention of crimes such as drug trafficking, smuggling, terrorism, and human trafficking. It is a mission that requires a combination of strategies, involving the planning, scheduling, and coordination, in real-time, of a large number of people as well as technological and material resources to ensure persistent surveillance. The Arkhe Integrated Systems product portfolio, developed by Atech, offers solutions that significantly increase the chances of identifying threats that attempt to cross these borders.

With a flexible, modular, and scalable structure, the products integrate different systems and sensors, such as radars, satellite antennas, cameras, weapons, and other devices, enabling interoperability with fixed or mobile control centers, in addition to equipping drones, aircraft, combat vehicles, and ships with the necessary tactical and combat capabilities, compatible with their corresponding doctrines of use. In compiling the tactical framework of the theater of operations, the large volume of collected data is processed, analyzed, and made available according to the needs of each command, considerably expanding the situational awareness of decision-makers.

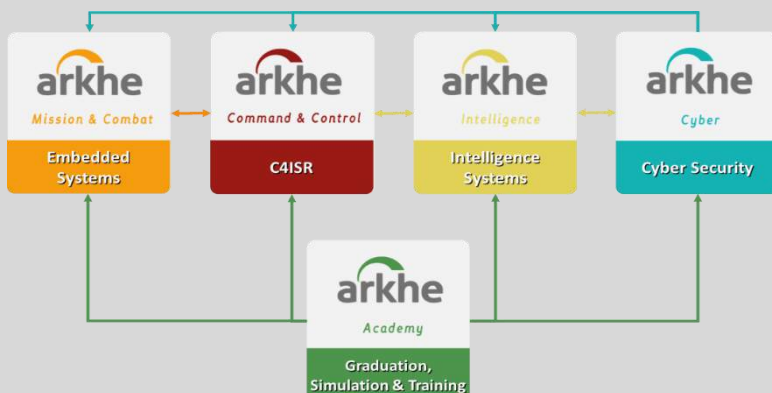


Among the main capabilities of Arkhe products are:

- **Command and Control**
Planning, surveillance, and integrated actions, assisting the chain of command in the decision-making process.
- **Mission and Combat**
Embedded command and control solutions for tactical employment by military and public security forces.
- **Intelligence**
Solutions for the collection, processing, analysis, and availability of data, aiming to create situational awareness with the support of Artificial Intelligence tools.
- **Academy**
Center of excellence in training for the formation and maintenance of military doctrines of use.
- **Cyber**
Cybersecurity solutions, providing integrity and availability of information.

It is common sense in the military segment that the rapid evolution of science, coupled with a complex scenario of civil-military operations in multiple domains, requires Command and Control (C2) approaches that are flexible in both development and employment.

In this sense, the components of the Arkhe family present themselves as solutions that adequately and quickly address the fundamental concepts of Command and Control (C2), which drive and maximize the probability of success of military or civil operations, isolated or joint, expanding the decision-maker's situational awareness in this modern dynamic framework.



Land Borders

For the land domain, for example, Atech develops and integrates command and control systems that allow for effective management of troops and resources, ensuring a rapid and coordinated response in combat situations. Its surveillance and intelligence systems contribute to the situational superiority of ground forces, providing integrated 360° surveillance. The integration of various sensors and devices, such as radars, cameras, drones, communication monitoring, among others, allows for intelligent tracking and comprehensive and effective monitoring in real-time. All collected data and images are georeferenced and stored and can be made available to command centers.

Air Border

For air defense, Atech provides comprehensive solutions that include the integration of surveillance radars, air traffic control systems, and command and control platforms. These technologies allow for precise airspace management, essential for national defense and security operations. The integration of real-time data ensures that critical decisions are made based on accurate and up-to-date information. In Brazil, Atech, in partnership with DECEA – Department of Airspace Control and CISCEA – Commission for Implementation of the Brazilian Air Space Control System, is responsible for the development and evolution of the main Air Traffic Management (ATM) and Air Defense (AD) System.

Maritime Surveillance

In the maritime segment, the Arkhe portfolio offers surveillance and monitoring products for coastal defense. Such solutions can be associated with command-and-control systems to support naval operations.

Cybersecurity

All Atech solutions are delivered with robust cybersecurity measures, ensuring protection against cyber threats. The company has recognized expertise in this area, with consecutive and outstanding engagements in the Locked Shields cyber exercise, conducted by NATO's Cooperative Cyber Defence Center of Excellence (CCDCOE). The company's participation in Locked Shields, considered the largest and most complex international cybersecurity exercise, demonstrates Atech's ability to protect critical infrastructure against sophisticated attacks.

Technology and Knowledge Transfer

Atech's solutions are complete and agnostic, that is, they are designed to integrate even legacy systems. This capability avoids the loss of previous investments and contributes to national sovereignty.



Arkhe Force Africa HQ, Lagos



Customer independence is also reinforced through technology and knowledge transfer. Through Arkhe Academy, the company offers training and ongoing support for all its products, ensuring that customers receive adequate training for system employment and knowledge transfer, including support for third parties. Atech also offers cloud-based systems, which are more secure and economical, as they do not require investments in large physical facilities.

International Presence

With a strong presence in the international market, Atech's solutions are present in countries in Latin America, Africa, and Asia. Among the products in the global market are Skyflow (ATFM) and Leo (IFPS) in India, both adapted to the country's specific needs and compliant with Eurocontrol standards. In Mauritania, the company developed and implemented a customized project to meet local requirements. The air and land surveillance system developed by Atech includes a C3I Center (Command, Control, Communications, and Intelligence), Mobile and Fixed C2 (Command and Control) units, as well as a backup system for air traffic control.

Eurosatory 2024

From June 17th to 21st, Atech will be at Eurosatory 2024, in France. During the five days of the event, the company will present the products of the Arkhe family, a portfolio that brings together technological solutions for the Defense and Security market. The international fair, one of the most important in the sector, will be held at the Paris Nord Villepinte Exhibition Centre, in Villepinte

Strengthening African Maritime Security Through Regional Cooperation and Innovative Solutions

The Djibouti Code of Conduct and the Yaoundé Code of Conduct stand as shining examples of success in African maritime security. These pivotal agreements, more than just paper treaties, are actionable frameworks that have united nations from East and West Africa with a common purpose. They have effectively combated piracy and enhanced maritime safety, instilling a sense of reassurance in the effectiveness of regional cooperation.

Djibouti Code of Conduct: A Model of Eastern African Unity

The Djibouti Code of Conduct, initiated in 2009 by the IMO to combat piracy in Eastern Africa, and the

Yaoundé Code of Conduct, established in 2013 to address maritime threats in Western and Central Africa, exemplify regional unity and cooperation. These agreements have fostered information sharing, operation coordination, and capacity building among naval and coastguard forces, significantly reducing piracy incidents.

Despite their successes, evolving maritime threats in Africa call for enhanced regional cooperation to build a more robust security network. They emphasize the need for a unified approach to addressing challenges like piracy, illegal fishing, and maritime terrorism.

Role of Israel Shipyards in Bolstering African Maritime Security

Israel Shipyards' involvement in African maritime security offers a high level of innovation and expertise. This allows African nations to leverage advanced maritime security capabilities, instilling confidence in the potential of these solutions. The company's portfolio, encompassing state-of-the-art patrol vessels, corvettes, and sophisticated surveillance and security systems, is tailor-made for the challenges of African maritime domains.

Israel Shipyards is renowned for its ability to design and construct vessels custom-tailored to African nations' specific needs and operational challenges. Among its portfolio, the SHALDAG FPC-class fast patrol craft stand out for their exceptional speed,





agility, and firepower, making them ideal for rapid interception of pirate activities and ensuring the security of crucial maritime routes. Adding to this fleet, the multi-role OPV S-45 Offshore Patrol Vessel significantly advances marine security capabilities. Designed for versatility and endurance, the OPV S-45 excels in a broad spectrum of missions, including maritime security operations, surveillance, and search and rescue, and it is equipped with state-of-the-art technology for extended deployments at sea. This vessel enhances the ability to protect and monitor vast maritime areas, providing a strategic advantage in safeguarding African waters.

Beyond the construction of sophisticated hardware, Israel Shipyards extends its expertise into the realm of advanced maritime surveillance systems. These systems are engineered to boost maritime domain awareness significantly, integrating cutting-edge radar, satellite communications, and intelligence analytics. This comprehensive surveillance capability facilitates real-time monitoring and threat detection, shifting the strategic approach from reactive to proactive responses against potential maritime threats.

In addition to its technological offerings, Israel Shipyards strongly emphasizes capacity building and delivers comprehensive training programs for naval and coastguard personnel. This aspect of their service ensures that African nations are equipped with the latest maritime security hardware and possess the skilled manpower necessary to operate and maintain these advanced systems effectively. Such an approach guarantees the sustainability of security capabilities, empowering nations to manage their maritime security independently over the long term.

Israel Shipyards plays a crucial role in significantly elevating maritime security efforts across Africa by weaving together these advanced solutions and promoting a culture of cooperation and innovation. The combination of regional cooperation frameworks and the technological prowess of Israel Shipyards creates a robust defense against maritime threats, steering the African marine domain towards more excellent safety and security. This collaborative and innovative approach underscores the importance of adapting to evolving maritime challenges, ensuring that Africa's seas remain secure for the prosperity of the continent and the global community.

Customized Solutions for Diverse Challenges

The maritime security landscape across Africa is as diverse as it is challenging. From the piracy-prone waters of the Gulf of Guinea to the illegal fishing hotspots in the Indian Ocean, each region presents unique security challenges that demand tailored solutions. Israel Shipyards' approach to creating customized solutions for these varied challenges is not just innovative; it's essential for the nuanced and effective management of maritime security threats. Here's how their approach can make a significant impact:

Tailored Vessel Design

Israel Shipyards understands that the operations of patrol vessels can vary greatly depending on the specific maritime challenges they are meant to address. For instance, with its significant piracy concerns, the Gulf of Guinea necessitates patrol vessels like the SHALDAG-class fast patrol craft, optimized for high-speed interception and rapid response, ideal for pursuing pirates off the West African coast. Conversely, missions in the Indian

Ocean, aimed at surveillance and enforcement against illegal fishing, require vessels with enhanced endurance and advanced onboard surveillance technology capable of tracking and apprehending illegal fishing vessels across extensive maritime zones.

Adding to this tailored approach, the multi-role OPV S-45 Offshore Patrol Vessel represents a versatile solution that meets various operational needs. With its balanced design prioritizing sea-keeping and endurance and sophisticated surveillance capabilities, the OPV S-45 is well-suited for extended missions in diverse environments, from anti-piracy operations in the Gulf of Guinea to monitoring illegal fishing activities in the Indian Ocean. By customizing the design and capabilities of each vessel, including integrating the OPV S-45 into its portfolio, Israel Shipyards ensures that maritime forces are equipped and optimally prepared with the right tools to effectively meet their specific operational challenges.

Advanced Surveillance and Security Systems

The company's tailored approach extends beyond vessels, aiming to offer a turnkey solution, including advanced surveillance and security systems. Recognizing the different surveillance needs—such as extensive coastal monitoring in one area versus focused surveillance in piracy-prone corridors in

another—Israel Shipyards can integrate a range of technologies, such as radars, aerial drones, UAV, and satellite communications, to create a comprehensive maritime domain awareness picture tailored to the region's specific threats. This bespoke technology integration ensures maritime security forces can detect, track, and respond to threats in real-time, with the precision required for their unique operational environments.

Customized Training and Support

Israel Shipyards offers customized training programs and support services tailored to each region's operational needs and technological capabilities. This ensures not only the effective use of the equipment but also builds local capacity for maintenance, operations, and tactical response. Whether specialized training for high-speed naval engagements in piracy-infested waters or enforcing fishing regulations in protected zones, this customized training ensures that maritime security personnel are well-prepared to tackle their specific challenges head-on.

Technology Transfer and Co-Development Opportunities

Understanding the importance of regional self-sufficiency in maritime security, Israel Shipyards is open to technology transfer agreements and co-development projects. This approach provides

© Photos credit: Israel Shipyards



African nations with cutting-edge maritime security solutions and fosters local industry development, creating a sustainable ecosystem for maritime security.

For instance, collaborating on developing a new patrol vessel or surveillance system can lead to technology transfer opportunities, enabling local production and maintenance capabilities and reducing dependence on external suppliers.

The journey towards achieving a robust and prosperous maritime domain in Africa is fundamentally anchored in the principles of regional cooperation and the infusion of innovative, cutting-edge solutions. The significance of such an approach is twofold. Firstly, it acknowledges the varied and complex nature of maritime security challenges across different parts of the African continent. Secondly, it recognizes the necessity of leveraging advanced technologies and expertise to address these challenges effectively. In this context, the successes of regional frameworks like the Djibouti and Yaoundé Codes of Conduct serve as foundational models that underscore the potential of collaborative efforts in enhancing maritime security. These frameworks have demonstrated the power of collective action in mitigating threats such as piracy and illegal fishing, setting a precedent for future cooperation.

Israel Shipyards emerges as a pivotal ally in this mission, offering a spectrum of maritime security solutions that are not only innovative but also adaptable to the specific needs of African maritime zones. The company's strengths lie in its comprehensive approach to maritime security, encompassing the design and manufacture of high-performance patrol vessels, advanced surveillance systems, and the provision of critical capacity-building programs. These offerings are underpinned by a deep understanding of the maritime security landscape, enabling Israel Shipyards to deliver effective and sustainable comprehensive solutions.

Benefits and Strengths of Israel Shipyards Suited to African Maritime Security:

- 1. Customized Maritime Solutions:** Recognizing Africa's diverse maritime security challenges, Israel Shipyards specializes in developing customized solutions. This bespoke approach ensures that each country's specific security needs, whether combating piracy, illegal fishing, or SAR missions, are met with precision-engineered solutions.
- 2. Advanced Technology Integration:** The company's commitment to integrating the latest technologies in its vessels and surveillance systems means African nations can benefit from enhanced maritime domain awareness and improved operational capabilities. This technological edge is crucial for detecting and responding to threats in real-time.



- 3. Sustainable Security through Capacity Building:** Beyond supplying hardware, Israel Shipyards strongly emphasizes training and support, ensuring that African maritime forces have the best tools and the knowledge and skills to use them effectively. This focus on human capital is essential for the long-term sustainability of maritime security efforts.
- 4. Enhancing Regional Cooperation:** By providing solutions that can be integrated across different national platforms, Israel Shipyards facilitates greater interoperability among African nations. This enhances regional cooperation, allowing for more coordinated and efficient responses to maritime security threats.
- 5. Global Maritime Security Contribution:** The collaboration between African nations and Israel Shipyards bolsters the security of the continent's maritime domains and contributes to the safety and stability of global maritime routes. This underscores Africa's growing role as a key player in international maritime affairs.

In summary, the collaboration between African nations and Israel Shipyards, leveraging regional cooperation and innovative maritime solutions, can significantly enhance Africa's maritime security. Drawing on the Djibouti and Yaoundé Codes of Conduct and utilizing Israel Shipyards' expertise, Africa is poised to safeguard its maritime interests and assert a key role in global maritime security.

ARMY CHIEF VISITS COMMAND ENGINEERING DEPOT...CHARGES PERSONNEL TO SUSTAIN TECHNOLOGICAL INNOVATION, INGENUITY IN SUPPORT OF ONGOING OPERATIONS

The Chief of Army Staff (COAS) Lieutenant General Taoreed Lagbaja has charged personnel of the Command Central Engineering DEPOT (CED) Nigerian Army (NA), to sustain the technological innovation and ingenuity exhibited in rebuilding, renovating and repairing burnt, damaged and broken-down Combat platforms recovered from formations and units deployed across the country. Gen Lagbaja gave the charge today, Monday, 27 May 2024, when he paid his maiden visit to the Engineering Depot in Kaduna, where he was thoroughly briefed by the Commander Major General Babatunde Alaya on the engineering efforts of the Depot in rebuilding, reboring and refitting damaged and broken-down Combat vehicles in support of formations and units of the Nigerian Army. He urged the personnel to sustain the current operational momentum and successes by supporting the troops in the frontlines through swift engineering interventions in rebuilding and repairing Combat equipment.



The COAS pointed out that drawing from his Command Philosophy, the CED remains pivotal in ensuring the sustenance of equipment in the inventory of the Nigerian Army. He commended the Commander, officers, soldiers, and civilian staff of the DEPOT for diligently keying into his Command Philosophy to "transform the Nigerian Army into a well-trained, equipped and highly motivated force towards achieving our constitutional responsibilities within a joint environment". He lauded the earlier leadership of the NA for resuscitating the comatose former Central Engineering Depot which has now been transformed into a viable and innovative Command Engineering Depot.

During the visit, General Lagbaja inspected the various production sections of the Depot and interacted with the personnel. He was accompanied by the Commandant Nigerian Defence Academy, Major General John Ochai, GOC 1 Division Major General Lander Saraso and Principal Staff Officers from the Nigerian Army.

**© ONYEMA NWACHUKWU, Major General , Director
Army public Relations**



PRESIDENT TINUBU COMMISSIONS 3 WARSHIPS, 2 HELICOPTERS, AND OPENS THE NIGERIAN NAVY INTERNATIONAL MARITIME CONFERENCE 2024

On 30 May 2024, the President & Commander-in-Chief of the Armed Forces of Nigeria, His Excellency, Bola Ahmed Tinubu GCFR was the Special Guest of Honour (SGOH) at the commissioning of 3x Warships & 2x Helicopters by the Nigerian Navy in Naval Dockyard Limited (NDL), Lagos.

The President, who was represented by the Vice President, His Excellency Senator Kashim Shettima GCON, also flagged off a Regional Maritime Exercise (REMEX) & declared the NN International Maritime Conference (IMC) 2024, open. All three events (commissioning, flag-off & conference) were to commemorate NN 68th Anniversary.

In his remarks, the President Commended the NN and the Chief of Naval Staff, Vice Admiral Emmanuel Ikechukwu Ogalla for creating a safe and secure maritime environment." The President referred to the NN as "lifeguards of Nigeria's Maritime Environment" and applauded Vice Admiral Ogalla's anti-crude oil theft operations which has

led to increasing levels oil production for Nigeria. The 3 newly acquired ships and 2 helicopters commissioned by the Vice President were;

- NNS OCHUZOR -35m Hydrographic Survey Vessel.
- NNS CHALAWA - 32m Seaward Defence Boat (SDB)
- NNS ZUR 32m (Seaward Defence Boat)
- Helo NN 412
- Helo NN 414

The VP flagged off the REMEX tagged "ABO-OKUN," onboard the Helo-Deck of NNS KADA as participating ships from various navies filed past. The navies involved in the exercise include Brazil, Cameroon, China and 11xNN ships with 2x Helicopters.

Several countries also attended Day 1 of the IMC 2024, including S. Korea, France, China, UK, Spain, Russia, Ghana, Cameroon, Senegal, Equatorial Guinea, Gambia & Benin.

The theme of the, is "Promoting the Blue Economy in Africa through International Cooperation on Maritime Security" and it is poised to engender discourse on how to optimize the benefits of the Blue Economy for economic growth.

© Nigerian Navy



U.S. and Tanzania Co-Host Military Intelligence Conference

U.S. Africa Command (AFRICOM) and Tanzania Peoples' Defence Forces (TPDF) hosted the Chiefs & Directors of Military Intelligence Conference (CDMIC) in Dar es Salaam, Tanzania, from April 30 to May 3. Keynote speakers included U.S. Army Brig. Gen. Rose Keravuori, AFRICOM director of intelligence, alongside TPDF Chief of Defence Intelligence Maj. Gen. Mbaraka Mkeremy. The 2024 conference highlights AFRICOM's commitment to fostering collaborative relationships with African partners, emphasizing the significance of intelligence engagement, and mutual interests. Serving as a pivotal forum, the conference facilitated the cultivation of collective strategies to address common challenges across Africa. Moreover, the conference reinforced AFRICOM's whole-of-government approach, integrating diplomacy, development, and defense in its engagement with African counterparts.

Keravuori underscored the critical importance of timely intelligence sharing by introducing the innovative concept of intelligence diplomacy. She said this approach leverages intelligence as a key tool to inform decisions, foster alignment in strategies and perspectives, facilitate collaborative actions, and deny adversaries any undue advantages. "Your calls will always be welcomed and your perspectives earnestly considered," said Keravuori as she emphasized the command's commitment to open communication. Participants from 33 African nations converged to delve into crucial themes such as: The Challenge of Hybrid Threats in Africa; Violent Extremism & Organized Crime in Africa: Coexistence & Convergence; and Military Intelligence in the Maritime Domain: Enabling Early Warning across a Spectrum of Threats.

Participants from 33 African nations converged to delve into crucial themes such as: The Challenge of Hybrid Threats in Africa; Violent Extremism & Organized Crime in Africa: Coexistence & Convergence; and Military Intelligence in the Maritime Domain: Enabling Early Warning across a Spectrum of Threats. Gen. João Pereira Massano, head of the Angolan Military Intelligence and Security Service and co-host of the 2023 CDMIC, echoed this sentiment. "The acquisition of information through extensive networks of relationships fosters and facilitates meaningful exchanges," he said.

In his remarks, Mkeremy discussed the importance of partnership, characterizing it as a dual role of being both a friend and a brother at the same time. "Our collective aim is to collaborate in crafting African-led solutions to prevailing challenges, while also striving to foster opportunities for the youth and prosperity for all," said Mkeremy. Mvemba Phezo Dizolele, senior fellow and director of the Africa Program at the Center for Strategic and International Studies emphasized the relevance of intelligence diplomacy in addressing an expanding spectrum of global threats, ranging from organized crime to terrorism to digital disruptions. Dizolele asserted that intelligence diplomacy as a potent tool for states to forge mutually beneficial partnerships in the face of such challenges. Engagements like CDMIC, he said, play a pivotal role in nurturing essential bonds of trust that drive effective intelligence collaboration. Ultimately, Dizolele concluded, security cooperation hinges on the foundation of trust.

U.S. Africa Command, headquartered in Stuttgart, Germany, is one of 11 U.S. Department of Defense combatant commands, each with a geographic or functional mission that provides command and control of military forces in peace and war. U.S. Africa Command employs the broad-reaching diplomacy, development, and defense approach to foster interagency efforts and help negate the drivers of conflict and extremism in Africa.

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Readout of Secretary of Defense Lloyd J. Austin III's Meeting with Angola Minister of Defense João Ernesto dos Santos

On 28 May 2024, the Secretary of Defense Lloyd J. Austin III hosted Angolan Minister of Defense João Ernesto dos Santos at the Pentagon to discuss the growing U.S.-Angola bilateral defense relationship. This visit builds on the success of the 2017 Memorandum of Understanding, the 2022 Joint Statement, and Secretary Austin's trip to Angola in September 2023. The two leaders also discussed ways to deepen the relationship through the upcoming inaugural Joint Angolan American Defense Cooperation Committee on June 5-6, 2024, at the Pentagon and other areas of security cooperation.

Secretary of Defense Lloyd J. Austin III welcomed Angolan Defense Minister Joao Ernesto dos Santos to the Pentagon to continue talks begun when Austin visited the African nation in September. Austin said Angola is a U.S. strategic partner and a regional leader. He said the ties between the two nations are growing deeper and have tremendous potential.

The outreach to African nations follows the U.S.-Africa Leaders Summit, which was hosted by President Joe Biden in 2022. At the summit, the president said, "Africa's success is the world's success." Since that meeting, the United States has continued high-level dialogue with African partners to advance the goals the leaders agreed upon. Austin became the first defense secretary to visit Angola. "I traveled to Angola because of the importance of our defense partnership," he said at the meeting. "I'm proud of all that we've done together to deepen our partnership, from maritime security to peacekeeping to defense policy and more." The military-to-military relationship between the two nations has the potential to grow, Austin said, and he specifically talked about strengthening cooperation in cybersecurity, as well as Angola's potential participation in the Defense Department's National Guard's State Partnership Program. "We're eager to work together to seize this historic opportunity to promote peace, security and responsible rules-based governance," Austin said. "And the Department of Defense looks forward to continue the cooperation with Angola as you restructure and modernize your armed forces." Mini American and Angolan flags sit on a table, with full-size flags from both nations in the background. Angola is a leader among the nations of the continent. "The geostrategic and the geopolitical space in which Angola is inserted requires special attention due to the deep historical, geographical, economic and cultural complexities of the community," dos Santos told the secretary through a translator. "The Republic of Angola is ... focused on an agenda of conflict prevention and resolution by peaceful means in interstate dialogue."

© Photo By: Navy Petty Officer 1st Class Alexander Kubitz, DOD/ Secretary of Defense Lloyd J. Austin III speaks with Angolan Defense Minister João Ernesto dos Santos before a bilateral exchange at the Pentagon, May 28, 2024



NATO reaffirms importance of long-standing partnership with Mauritania

Deputy Secretary General Mircea Geoană met with Defence Minister Hanana Ould Sidi of Mauritania at NATO Headquarters on Tuesday (28 May 2024), to take stock of developments in NATO-Mauritanian relations. Deputy Secretary General Geoană highlighted that “Mauritania is a valued partner” and that Allies are “determined to step up our partnership further, including to strengthen Mauritania’s forces in the fight against terrorism.”

NATO Deputy Secretary General Mircea Geoană meets with Hanana Ould Sidi, Minister of Defence of the Islamic Republic of Mauritania. Mauritania is a long-standing NATO partner, having joined the Alliance’s Mediterranean Dialogue partnership forum in 1995. Since then, NATO-Mauritania partnership has grown significantly, with progress made in several areas, including special operations forces, maritime security intelligence, military career transition programmes, stockpile management regarding small arms and light weapons, and military education.



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Deputy Secretary General Geoană also reaffirmed the importance of NATO’s southern neighbourhood. A group of independent experts appointed by Secretary General Jens Stoltenberg to support NATO’s reflection on its southern neighbourhood recently published its final report and key findings. The aim is for Allies to agree a set of measures to strengthen the Alliance’s approach to its southern neighbourhood in time for the NATO Summit in Washington in July.

The Mediterranean Dialogue (MD) is a partnership forum that aims to contribute to security and stability in the wider Mediterranean region, and promote good relations and understanding among participating countries and NATO Allies. Current members include Algeria, Egypt, Israel, Jordan, Mauritania, Morocco and Tunisia.

European Peace Facility: Council adopts an assistance measure to support the Armed Forces of Côte d'Ivoire

The Council has recently adopted an assistance measure worth €15 million under the European Peace Facility to support the Armed Forces of Côte d'Ivoire. This support will strengthen the operational capabilities of the Ivorian Armed Forces to secure areas close to land borders and to counter non-state armed groups, which are destabilising the country and the whole West Africa region. Through the proposed assistance, the EU will provide equipment not designed to deliver lethal force in order to upgrade the Intelligence, surveillance and reconnaissance’s capabilities of the Air Forces of Côte d'Ivoire through the acquisition of communication and data transmission equipment and unmanned aerial systems.

It will also strengthen the logistics and security of military units deployed in the northern areas of Côte d'Ivoire through the provision of multi-purpose vehicles and personal protective equipment. The delivery of the equipment will be accompanied by relevant tactical and on-the-job training, as relevant, to ensure the full effectiveness of the support and draw the maximum benefit from it.

The European Peace Facility was established in March 2021 to finance all Common Foreign and Security Policy (CFSP) actions in military and defence areas, with the aim of preventing conflict, preserving peace and strengthening international security and stability. In particular, the European Peace Facility allows the EU to finance actions designed to strengthen the capacities of third states and regional and international organisations as regards military and defence matters.





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Otokar Ready to Serve Romanian Armed Forces

Otokar, A Koç Group company, participated in the Black Sea Defense, Aerospace and Security International Exhibition (BSDA), between May 22-24, in Bucharest, Romania. During the exhibition, Otokar displayed its worldwide known COBRA II 4x4 tactical wheeled armored vehicle and ARMA 8x8 wheeled armored vehicle from its broad range of armored platforms.

Stating that Otokar is among of the world's top land systems manufacturers, Aykut Özüner, General Manager said; "We are very proud that, as a NATO and UN supplier in military vehicles, Otokar has been serving in many different climatic and terrain conditions on various missions around the world. Being appreciated in global markets with its wide product range and comprehensive integrated logistics services for long years, Otokar has been undersigning the world's important land platform projects."

"Today our military vehicles serve in more than 40 countries in almost every corner of the world, from Europe to South America, from Southeast Asia to Americas, from Central Asia to Africa as well as Eastern Europe" said Sedef Vehbi, Otokar Military Cluster Head and pointed out its capability of global transfer of know-how and technology in addition to its existing exports. "BSDA is important for Otokar in order to meet our current and potential customers in the region and develop further relationships. Specifically, Romania with its opportunities of investment, strategic location, and well-educated workforce is a strategic country for companies like Otokar seeking to access European markets" said

Aykut Özüner highlighting that Koç Holding, Otokar's main shareholder, has also been operating in Romania for more over 30 years.

Reminding Otokar had submitted its bid for the tender which C.N. Romtehnica S.A., Romanian Ministry of National Defence's Company, opened for the purchase of 4x4 Tactical Wheeled Armoured Vehicles, Aykut Özüner said "We are eager to serve Romanian Armed Forces."

"Since long, we have been focusing in Romania and closely following up the defence acquisition projects" said Sedef Vehbi. "In due course, together with our local partner, Automecanica, we have been concentrating on a compressive potential business plan in order to meet the challenging requirements of Romanian MoD in this 4x4 program. This includes technical, commercial, and financial aspects of the project, as well as the added value and capability development issues in the country. In case of an award, we are planning to use our facility in Romania as a strategic hub for our business in Europe. Apart from the local production activities, the facility is planned to conduct research and development (R&D) activities. On the other side, we are also determined to work with local Romanian suppliers and sub-system manufacturers to increase the local added value in the country and contribute the Romanian defence capability development in defence." Regarding the vehicle Otokar had bid for the Romanian Armed Forces Ms. Vehbi said "COBRA II, proposed for Romanian Armed Forces, is a combat proven armored vehicle operating in more than 20 end-users' inventory, and being actively used in NATO and UN missions."

Otokar designs and manufactures a wide range of defense industry products including 4x4, 6x6, 8x8 tactical wheeled armored vehicles, tracked armored vehicles, unmanned armored vehicles as well as turret systems, using its own technology, design and applications. Otokar products are recognized for their survivability, superior mobility and modularity.

COBRA II is actively used in more than 20 end-users in the world. It offers high level of protection, payload capacity, and large internal volume. In addition to its superior mobility, COBRA II provides high protection against ballistic, mine, and IED threats. With high power to weight ratio COBRA II delivers high performance. The combat proven vehicle is operated by many armies in different parts of the world on toughest terrain and climate conditions.

ARMA 8x8 is a combat-proven modular platform with amphibious capabilities for various missions. ARMA meets survivability, protection level, and mobility requirements of modern armies. In addition to its high mission payload capacity and spacious interiors, ARMA 8x8 also draws attention with its low silhouette.

HAVELSAN participated in the 3rd African Air Force Forum

HAVELSAN participated in the 3rd African Air Force Forum in Nigeria to showcase its cutting-edge technologies. HAVELSAN had a great opportunity to introduce its Network Supported Data Integrated Combat Management System (ADVENT CMS), unmanned aerial vehicle (UAV) BAHA, and advanced shooting simulator to a wider African audience.

HAVELSAN booth, hosted Nigerian Minister of Defense and the Chief of Air Staff, and provided information about both its products already exported to Nigeria and our several technological capabilities.

In the interview held with Anadolu Agency's (AA) Nigeria Representative, General Manager Dr. Mehmet Akif Nacar made the following assessments regarding HAVELSAN's marketing and sales activities toward Africa: "Since 2019, we have been establishing closer contacts with African countries, advancing relationships through regular visits. We are well known in many countries in the continent. We had the privilege to offer many projects to the African countries. We have brought our unmanned aerial vehicle BAHA, our unmanned ground vehicle BARKAN, and our shooting simulators here. We are conducting business development activities with all African countries, primarily Nigeria, Rwanda, Kenya, Uganda, Gambia, Morocco, Tunisia, Algeria, Egypt, Senegal, and Cameroon.



We have delivered the Network Supported Data Integrated Combat Management System (ADVENT) to Nigeria in June last year through an agreement. We encounter a sincere interest in Nigeria. We have started some simulator work. In the coming period, with the increasing use of ATAK helicopters here, we look forward to the days when we will also provide the ATAK helicopter simulator."

"We are exporting BAHA to other countries as well; its market is expanding day by day. BAHA is a small system with an affordable price and ease of use. We believe BAHA will be a starting point and other countries will follow this example and show interest in our products."

HAVELSAN participation in the 3rd African Air Force Forum in Nigeria underscores HAVELSAN's dedication to advancing defense technologies and fostering international partnerships in the region. The positive reputation of its products, such as ADVENT CMS and BAHA, highlights the growing demand for innovative and reliable defense solutions. As HAVELSAN continues to expand its presence in Africa and beyond delivers cutting-edge technologies that meet the evolving needs of its global partners.

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Kenya Defence Forces



The mission of the Kenya Defence Forces is to defend and protect the sovereignty and territorial integrity of the Republic, assist and cooperate with other authorities in situations of emergency or disaster and restore peace in any part of Kenya affected by unrest or instability as assigned. KDF comprises the armed forces of the country: Army, Navy and Air Force.



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His Excellency William Ruto, the President of Kenya is the Commander-in-Chief of the Defence Forces of the Republic of Kenya. The President assigns names to units of the Defence Forces on recommendation of the Defence Council. He promotes, appoints and posts officers of the Defence Forces on the recommendation of the Defence Council.

The Defence Forces consist of:

- the Kenya Army
- the Kenya Air Force
- the Kenya Navy

The Defence Forces:

- are responsible for the defence and protection of the sovereignty and territorial integrity of the Republic;
- shall assist and cooperate with other authorities in situations of emergency or disaster, and report to the National Assembly whenever deployed in such circumstances; and
- may be deployed to restore peace in any part of Kenya affected by unrest or instability only with the approval of the National Assembly.
- The composition of the command of the Defence Forces shall reflect the regional and ethnic diversity of the people of Kenya.

There is established a Defence Council consists of:

- the Cabinet Secretary responsible for defence, who is the chairperson
- the Chief of the Kenya Defence Forces
- the three commanders of the defence forces
- the Principal Secretary in the Ministry responsible for defence.

The Council is responsible for the overall policy, control, and supervision of the Kenya Defence Forces; and performs any other functions prescribed by Kenya national interests.

The modernization of Kenya's Defence Forces comes in a period of heightened security concern that has seen Iran-backed Houthi rebels fire drones and missiles toward Israel and commercial ships in the Red Sea. Kenya also faces threats from the Somalia-based terrorist group, the Al-Shabaab, which has carried out a series of attacks in the region for several years if not decades. The Sh 1 billion loan deal is part of the Sh 168 billion budget allocated to the Ministry of Defence for the fiscal year 2023/2024. Kenya relies mainly on imported military equipment for its security forces. Most of the procurement contracts pursued by Kenya are finalized through government-to-government agreements. Kenya procures its defense equipment from various countries, which include China, Serbia, India, the US, Jordan, and Russia. Furthermore, DCA emerged as the most common practice of institutionalized defense cooperation. DCAs establish broad defense-oriented legal frameworks among parties, facilitating defense arms procurement that acts as one of the key market entry routes to Kenya's Defense market.



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Honourable Aden Duale, EGH, MP, is the current Cabinet Secretary for the Ministry of Defence in Kenya. He has served as a ranking Member for three consecutive terms of Parliament in the National Assembly of Kenya.

He was the First Leader of Majority Party in the National Assembly where he served in the 11th and 12th Parliament until July, 2020 (for 8 years). This is a senior government office within Parliament of Kenya that was established under the Constitution of Kenya, 2010. He was first elected into parliament in the year 2007, re-elected in the year 2013, 2017 and 2022. Hon. Duale is the incumbent Member of Parliament for Garissa Township Constituency and served as a ranking member in the Public Accounts Committee in the 12th Parliament.

According to international and local media Kenya is interested in acquiring advanced air defense system from the Israeli Rafael.

Indian Defense Cabinet Secretary Aden Duale said Indian Armed Forces were already engaged with their Kenyan counterparts in joint training and other capacity building initiatives as well as the modernization and acquisition of new weapons for our military forces. He made the remarks last February when he presided over the opening session of the second edition of India Kenya Defence Exhibition and Seminar being co-organized by Kenya Defense Forces and High Commission of India in Nairobi.

The U.S. delivered six (6) MD-530F Cayuse Warrior helicopters to the Kenya Army's Joint Helicopter Command (JHC) at Embakasi Barracks during a handover ceremony in January 2023.

"The arrival of these helicopters underscores our commitment to our Kenyan defense partners and our shared collective efforts to address security and stability in the region," said U.S. Army General Stephen Townsend, commander, U.S. Africa Command. "We are proud of our robust relationship and appreciate the Government of Kenya's continued partnership."

Kenya is set to receive 16 U.S.-manufactured helicopters to boost the country's security operations and peacekeeping missions. This is part of the goodies advanced to Kenya by President Joe Biden's administration following the State visit by President William Ruto to Washington.

According to a statement released by the White House on Thursday, the 16 helicopters include eight Hueys to bolster regional peace and security as well as eight MD-500s for enhancing Kenya's participation in peacekeeping missions.

Underscoring the elevation of US-Kenya strategic relationship, President Biden during the formal visit to the White House of the President William S. Ruto of Kenya, announced his intent to designate Kenya as a Major Non-NATO Ally – the first such designation for a sub-Saharan African country. This is a powerful symbol of the close relationship our two countries share, and we welcome the increased cooperation on security and mutual priorities this action signals.

This decision also reflects United States' respect for Kenya's increasingly significant contributions to solving regional and global challenges. President Biden appreciates Kenya for engaging in multiple efforts to de-escalate conflicts in South Sudan, Sudan, the Democratic Republic of Congo, as well as between Somalia and Ethiopia.

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Kenya is a significant contributor to peace support operations and has deployed troops to secure peace in African nations and throughout the world. The United States appreciates and supports Kenya's leadership, pursuant to UN Security Council Resolution 2699, in coordinating the Multinational Security Support Mission to Haiti. The United States plans to provide more than \$300 million in assistance and in-kind support to the mission. The deployment of Kenyan police to Haiti, where 1,000 of Kenya's police aim to bring much-needed safety and security to the people of this Caribbean nation is a testament to Kenya's global commitment, reach, and impact.

Kenya Shipyards Limited's experience and capabilities were essential in ensuring the successful completion of the midlife refit of the vessel. The Mombasa Shipyard provided the required facilities and workforce to carry out the work, while also working closely with the Kenya Navy and Damen Shipyards to ensure the vessel's needs were met.

The completion of the midlife refit of the KNS Shupavu demonstrates the importance of regular maintenance and upgrades for vessels to continue operating effectively. It also highlights the role of KSL in providing the necessary expertise and facilities to conduct such work.

The successful completion of the refit of the KNS Shupavu is a testament to the capabilities of KSL and its commitment to delivering high-quality work. The vessel can now continue to serve the Kenya Navy and help protect the country's maritime interests for many more years to come.

The midlife refit of the KNS Shupavu marks a significant milestone for KSL. The KNS Shupavu can now continue to serve the Nation's maritime interests for many more years, and this achievement paves way for other naval vessels in the region to undergo similar refits in the future.



© Kenya MOD

Major General Paul Otieno, the newly appointed Commander Kenya Navy, officially took over the mantle from Major General Thomas Ng'ang'a at a ceremony held at the Kenya Navy Headquarters on 09 May 2024.

Kenya has constructed 14 fully equipped Forward Operating Bases (FOBs) along the Kenya-Somalia border as part of efforts to bolster security in the area. This is ahead of the planned drawdown of Kenya Defence Forces from Somalia, Defence Cabinet Secretary Aden Duale said. "We are fully committed that when the drawdown from the African Union Transition Mission in Somalia (ATMIS) comes, we are secure as a country by ensuring that when al-Shabaab feels the heat of the Somalia Security Forces they don't come to find refuge in Kenya." He said the ministry has a tradition of being cost-effective and doing projects within the shortest time possible, saying the ministry remains committed to undertaking government projects in support of civil authorities. Duale sought the support of Parliament to provide adequate budgetary allocation to the Ministry of Defence to facilitate its ongoing expansion and modernization efforts to enhance the force posture of the Kenya Defence Forces.

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Kenya Defence Forces Military Leadership



GEN. Charles M Kahariri CBS 'nwc'(USA)'psc'(K) Chief of Defence Forces



LT. GEN David K C Tarus CBS 'ndc' (K) 'cgsc' (USA) 'psc' (K) Commander Kenya Army



MAJ. GEN Paul Owuor Otieno EBS 'ndc' 'psc'(K) Commander Kenya Navy



MAJ. GEN Fatuma G Ahmed CBS OGW 'ndc' 'psc'(K) Commander Kenya Air Force



© Photos Credit: Kenya MOD

Tanzania People's Defence Force



Tanzania Peoples Defence Forces are the armed forces of the United Republic of Tanzania comprising of multidisciplinary forces as-

- Land Forces Command
- Air Forces Command
- Navy Forces Command

The Tanzania Peoples Defence Force (TPDF) was established On 1st September 1964, Under National Defence Act for the purpose of defending the territorial integrity, state sovereignty and safeguard National interests of the United Republic of Tanzania. Aims at maintaining a small armed force composed of highly skilled officers and men equipped with modern equipment necessary for national defence.

TPDF Mission is to defend the state sovereignty, safeguard National interests of the United Republic of Tanzania, and Aid to civil authority.

Tanzanian citizens are able to volunteer for military service from 18 years of age upon graduation from secondary school. Conscript service obligation was 2 years as of 2004.

By the late 1970s reasonable estimates placed army strength at about 17,000 out of the total TPDF of 18,600 men and women.

The country is one of the few African countries that maintains large and functioning Reserves. The estimated strength of the reserves is in the region of 80 000 personnel but many of these are no longer active due to the change from one-party to multi-party rule.

Tanzanian Army

As of 2015, the army is gradually modernizing and restructuring. Much of the inventory is in storage or unreliable. Included in the army inventory in are PRC T-59 medium tanks, PRC T-62 light tanks, RTR-40

BTR-152 armored personnel carriers that were of Soviet design, 76-mm guns, eighteen 122-mm howitzers, 120-mm mortars, and several 37-mm anti-aircraft guns and 145-mm anti-aircraft machine guns.

The army does not operate in its command but consists of infantry brigades directly under the command of the Chief of Defense Forces (CDF). The Army is organized into a number of

different brigades and battalions throughout the country. These are constituted as follows:

- 5 x infantry brigade
- 1 x tank brigade
- 3 x artillery battalion
- 2 x air defence artillery battalion
- 1 x mortar battalion
- 2 x anti-tank battalion
- 121st Engineer Regiment
- 1 x central logistic/support group

Naval Command

As of 2016, the assets of the Tanzania Naval Command included:

- Four Huchuan class torpedo boats
- Two Ngunguri class vessels
- Two Shanghai II class patrol craft
- Two 27-foot Defender-type patrol boats
- Two Yuch'in class landing craft.





In 2015 Tanzania replaced the two-landing craft with similar Chinese Type 068 vessels. The new 28-metre vessels, Mbono and Sehewa, took part in an amphibious operation demonstration on 30 September 2016. They unloaded infantry and Type 63A amphibious light tanks as part of the exercise. The landing craft were delivered to the naval base in Dar es Salaam by January 2016.

On 1st October 2018, in a bid to support community efforts in marine ecosystem management The European Union Delegation to Tanzania and the EAC, the Ministry of Livestock and Fisheries and WWF Tanzania have handed over two patrol boats worth \$ 64,000 to the Collaborative Fisheries Management Areas (CFMAs) of Kilwa Kivinje and Mafia. The handing over was organized through the EU funded project implemented by WWF Tanzania named 'Building effective long-term fisheries co-management in five coastal districts in Tanzania, and promoting coast-wide learning on the same'.

Air Force Command

Tanzania's air force command operates 40 aircraft in 4 different types. It is believed they are operating 14 fighters, 11 fixed-wing attack aircraft, 7 transport aircraft and 8 tra More than 2,600 Tanzanian military and police personnel currently serve in six UN operations, performing a range of vital tasks such as protecting civilians and community policing. Tanzania has contributed uniformed UN peacekeepers in various parts of the world since 1995. It currently contributes peacekeepers in six UN missions in Africa and UNIFIL in Lebanon. Tanzania's contributions are largely informed by its history of African liberation, conflict prevention and peace processes, especially in African countries. Regionally, Tanzania has shown willingness to participate and contribute both in terms of security and military cooperation. Under the African Peace and Security Architecture (APSA), Tanzania is part of its African Standby Force's (ASF).

Specifically, Tanzania, falls under the Southern African Development Community (SADC) and in 2007 signed the agreement to become part of the SADC Standby Brigadier aircraft.

Tanzania's air force command also operates 8 helicopters, 2 BELL 214, 2 H 155 as well as 2 H 215 and 2 H 225 which were delivered in September 2018.

More than 2,600 Tanzanian military and police personnel currently serve in six UN operations, performing a range of vital tasks such as protecting civilians and community policing. Tanzania has contributed uniformed UN peacekeepers in various parts of the world since 1995. It currently contributes peacekeepers in six UN missions in Africa and UNIFIL in Lebanon. Tanzania's contributions are largely informed by its history of African liberation, conflict prevention and peace processes, especially in African countries. Regionally, Tanzania has shown willingness to participate and contribute both in terms of security and military cooperation. Under the African Peace and Security Architecture (APSA), Tanzania is part of its African Standby Force's (ASF). Specifically, Tanzania, falls under the Southern African Development Community (SADC) and in 2007 signed the agreement to become part of the SADC Standby Brigade.



Egypt continues its efforts to provide urgent humanitarian aid to the residents of the Gaza Strip



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In continuation of the Egyptian efforts to halt the war within the Gaza Strip and mitigate the worsening humanitarian conditions. Egypt is working to ensure the access of aid in sufficient quantities to save the people of the Gaza Strip. This reaffirms Egypt's support for the Palestinian cause in the face of pressures from the international community to fulfill its responsibilities in confronting Israeli aggression on Gaza. In recent days, Egyptian military transport aircraft, accompanied by their counterparts from brotherly and friendly countries within the international coalition, including Jordan, have been dispatched to Gaza. These aircraft are conducting airdrops of tens of tons of aid to areas that are difficult to reach within the Gaza Strip, aiming to alleviate the suffering of its inhabitants. These aid efforts offer a glimmer of hope to the people of the Gaza Strip amidst the continued war.

General/ Mohammed Zaki meets with the Middle East and North Africa Coordinator for the US National Security Council



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On 6 June 2024, General Mohammed Zaki, Commander-in-Chief of the Armed Forces, met with Mr. Brett McGuirk, the Middle East and North Africa Coordinator for the US National Security Council, and the accompanying delegation currently visiting Egypt. The meeting addressed the current regional developments considering the ongoing military operations within the Gaza Strip and its extremely difficult humanitarian consequences, as well as the efforts made in light of current initiatives to cease fire, open crossings, and intensify the access of humanitarian aid to the residents of the Gaza Strip. Lieutenant General/ Osama Askar, Chief of Staff of the Armed Forces, and a number of Armed Forces Commanders, Chargé d'Affaires US Ambassador, and the US Military Attaché in Cairo attended the meeting.

Senegal Air Force Commander visits Turkish counterpart



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Senegal Air Force Commander Brigadier General El Hadji NIANG paid a courtesy visit to Air Force Commander General Ziya Cemal KADIOĞLU on 25 April 2024.

RDF ARMY CHIEF OF STAFF BRIEFS NEW CONTINGENT SET TO DEPLOY IN MOZAMBIQUE



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On 14 May 2024 at Kami Military Barracks, Maj Gen Vincent Nyakarundi, the RDF Army Chief of Staff together with Commissioner of Police Vincent B. Sano, Deputy Inspector General of Police in charge of Operations, briefed Rwandan Security Forces preparing to deploy to Mozambique's northern province of Cabo Delgado.

The RDF Army Chief of Staff conveyed a message from H.E. Paul Kagame, the President of Rwanda and Commander-in-Chief of RDF, reminding the troops to maintain discipline and commitment in their crucial mission. He emphasized that the forces currently deployed in the region are performing admirably and that this standard must be upheld. This deployment underscores the strong bilateral relations between the Republic of Rwanda and Mozambique.

General/ Mohamed Zaki, Commander-in-Chief of the Armed Forces and Minister of Defense and Military Production, met with Vice Prime Minister of National Defense and Veterans Affairs of the Democratic Republic of the Congo



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General/ Mohamed Zaki, Commander-in-Chief of the Armed Forces and Minister of Defense and Military Production, met with Vice Prime Minister of National Defense and Veterans Affairs of the Democratic Republic of the Congo Mr. Jean-Pierre Bemba Gombo, and his accompanying delegation currently visiting Egypt. An official reception ceremony was held at the headquarters of the Ministry of Defense, accompanied by the performance of the national anthems of both countries by Military Band. The meeting discussed the latest developments on both regional and international fronts and their implications for security and stability within the African continent, amidst the current circumstances and challenges. There was also an understanding reached regarding enhancing military cooperation between the two countries in various fields. Additionally, the two ministers chaired the concluding session of the Egyptian-Congolese Military Cooperation Committee meeting, which addressed several topics related to supporting common cooperation prospects and exchanging expertise in various military fields for both sides.

The Commander-in-Chief of the Armed Forces emphasized his pride in the relations linking the Armed Forces with their counterparts from African countries, commending the efforts of the committee in achieving common visions in all military fields.

On his part, the Vice Prime Minister of National Defense and Veterans Affairs of the Democratic Republic of the Congo expressed his appreciation for the depth of the ties and relations between the two friendly countries, also praising the supportive Egyptian efforts for all African continent issues.

Lieutenant General/ Osama Askar, Chief of Staff of the Armed Forces, and a number of military commanders from both countries attended the meeting and the concluding session.

PROFORCE DELIVERS ARMoured CASH-IN-TRANSIT VEHICLE TO GHANA



© Proforce

Proforce, Africa's leading defence manufacturer proudly announces the introduction of its cutting-edge cash-in-transit vehicles to the Ghanaian market. With an exceptional track record of providing state-of-the-art defence products globally, Proforce is poised to revolutionize the security landscape by offering maximum protection for all its esteemed clients.

Proforce's cash-in-transit vehicles are built to the highest standards, incorporating cutting-edge materials and technologies to ensure unrivalled protection. The vehicles' ballistic resistance, run-flat tire systems, advanced suspension, and secure communication capabilities exemplify the brand's commitment to security excellence. Proforce's foray into the Ghanaian market comes as a significant step towards bolstering security standards in the country. The custom-built armoured cash-in-transit vehicles are specially designed to address security concerns in the Ghanaian banking industry. Unveiling the cash-in-transit vehicles, the management expressed excitement, noting that expanding the company's operations to Ghana will provide advanced armoured solutions to safeguard valuable assets during cash-in-transit operations.

With an extensive portfolio of successful projects across the globe, the company has established itself as a trusted partner for governments, security agencies, and corporations alike. Proforce's vehicles are meticulously engineered to withstand even the most challenging security scenarios, ensuring the safety of both our clients and their precious cargo.

Proforce is an internationally recognized total defence solutions provider, offering a comprehensive range of defence products tailored to meet diverse security requirements. With a strong presence in various countries, Proforce has built a reputation for delivering top-tier protection and reliability in all its offerings.

Kenya appoints first woman Military Service Head



On 2 May 2024 Kenya's President William Ruto has appointed the first female commander of the Kenya Air Force. Maj Gen Fatuma Gaiti Ahmed becomes the first woman in Kenya's history to head one of the military services.

She was appointed alongside other leaders including a new head of the armed forces, following the death of the military chief and others in a helicopter crash last month.

Kenya Navy conducted international training



Kenya Navy and other Kenyan maritime partners participated in Ex Usalama Baharini at Bandari Maritime Academy, Mombasa. The Ex was conducted by EU Naval Force Operation Atalanta in collaboration with Djibouti Code of Conduct/ Jeddah Amendment.

National Security Symposium 2024



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On 22 May 2024, the eleventh National Security Symposium 2024 jointly organised by Rwanda Defence Force Command and Staff College (RDFCSC) and the University of Rwanda (UR) has officially opened at Kigali Convention Centre.

The three-day symposium brought together academicians, government officials, diplomats and subject matter experts including Generals, Senior Military, Police Officers and civilians from 52 countries to discuss contemporary security issues on a revolving theme: "Contemporary Security Challenges: The African Perspective".

In his opening remarks, Minister of Defence, Hon Juvenal Marizamunda reminded participants our world is confronted with a myriad of security challenges that threaten peace and stability adding that these challenges range from terrorism and violent extremism to cyber threats through governance failures, climate change, global energy disruptions, food insecurity, unfair trade and financial systems, to mention but a few.

"This symposium offers a golden opportunity to engage in fruitful discussions, analyse current trends, share best practices, and collaborate on innovative approaches to address the multifaceted security challenges facing our continent today and build a more secure and sustainable future for all. I am confident that the diverse expertise and perspectives represented in this symposium will enrich our discussions and contribute to the development of innovative strategies to enhance the much-needed peace and security on our continent," said Hon Marizamunda. The symposium discussions will cover a variety of topics ranging from Youth radicalisation and International Violent Extremism, Climate Change in Africa, Global Energy Crisis and Transitions, Food Security in Africa, The Compounding Effects of Global Shocks on Trade, Supply Chain and Debt Trap and Insecurity in Africa.

Armored Personal Carrier in the African Market



Armored Vehicles Manufacturers - related companies in Africa

South Africa is one of the top nations in terms of its production and supply of armoured vehicles to the rest of the world. South African armoured vehicles carry out one of two main roles: either a direct combat role that incorporates a variety of weaponry, or a personnel carrier function that protects troops and delivers them to and from the battlefield.

The most prevalent designs of South African armoured vehicles are,

- * The Rooikat, created by South African defence major Denel, is an armoured reconnaissance vehicle with a primary attack function and fire support role.

- * The Ratel – an alternative word for the honey badger – is known as the first wheeled infantry fighting vehicle to enter military service worldwide. It is currently in use with 13 militaries across Africa and the Middle East. The SANDF has more than 500 Ratels in its arsenal while the Jordanian Armed Forces own around 300 Ratels.

- * The RG-34 is a South African mine-resistant ambush protected (MRAP) light armoured vehicle, which is part of BAE Systems South Africa's RG series.

- * The Casspir developed by South Africa's Council for Scientific and Industrial Research (CSIR) has been in service with the South African Army for more than 30 years, which has around 370 in

service. It is also a popular model with the Indian Army and the US Army.

- * South African defence firm Paramount Group launched the Mbombe mine-protected, high-mobility armoured fighting vehicle in 2010. Mbombe's hull can reportedly withstand a 10kg explosive even if it is placed underneath the hull or wheel arch. It also offers rocket-launched grenade protection and additional modules can withstand up to 50kg of explosives from a range of 5m away. To protect itself, the Mbombe can be fitted with machine guns or an autocannon and has both day and night vision equipment for improved situational awareness. The Mbombe is currently in services with the Jordanian and Kazakh Armed Forces. Paramount Group recently showcased the latest generation Mbombe 4 at IDEX 2019 in Abu Dhabi, the UAE.

- * Denel Land Systems' Badger infantry combat vehicle is part of a new generation of South African armoured vehicles, which is designed to replace the ageing Ratel model within the SANDF. Completion of delivery of 264 Badgers to the SANDF should occur by 2022, according to the Project Hoefyster contract. The Badger is a South African-grown variant of Finland's Patria Armoured Modular Vehicle.

- * Milkor 4x4 is a new armoured personnel carrier (APC) developed by Milkor, a South African defence vehicle manufacturing company. Designed to meet the infantry carrier requirements of armed forces in the African continent, the Milkor 4x4 APC is used for troop transportation, casualty evacuation, and riot control missions.

- * The Mamba is a South African armoured personnel carrier designed for internal security purposes. It was developed during the late 1980s to replace the Buffel in service with the South African military and security forces. The first models were built on a 4X2 Toyota Dyna chassis, which was subsequently replaced in production around 1994 by a more reliable Unimog chassis. All marks of the Mamba were designed to be mine-resistant and blast proof.

- * In the foreseeable future one can also expect closer cooperation between the African companies, such as the development of the ST-100 and ST-500 armoured personnel carriers (APCs) for Egypt's International Marathon United Technology Group (IMUT) by South African Saksa Technologies.

- * As Nigeria's first and only indigenous defence manufacturing company incorporated in 2008, Proforce Land Systems is a specialized manufacturer of personal protection suitable for land systems through the manufacturing of Armoured Personnel Carriers (APCs), Mine Resistant Ambush

Protected Vehicles (MRAPs), Armoured Patrol Boats, Ballistic Helmets and Vests, Civilian Armoured Vehicles and Cash-in-Transits. The ARA or Thunder is 19-ton Mine Resistant Ambush Protected (MRAP) vehicle designed to provide ultimate protection for high-degree threats. Combining an array of latest technology, the ARA is a mission adaptive vehicle that provides superior crew protection and offensive ability. The ARA is integrated with a fully independent suspension system.

* Paramount and Namibia's Windhoek Maschinenfabrik (WMF) are currently engaged in armoured vehicle trials in India. In addition, the United Arab Emirates Army will buy the new Mbombe 4 armoured car from South African company Paramount, marking the vehicles first sale, according to Paramount's founder and chairman, Ivor Ichikowitz.

Latest Armored Vehicles deliveries in the African Armies

Nigeria

In 2022, the Nigerian Army recently took delivery of Streit Group SPARTAN-MAV armoured personnel carriers. In 2021 the Nigerian Army has put into use sixty new Chinese Norinco Type-89 tracked armoured vehicles to boost its ongoing and future offensive in the northeastern region against Islamic terrorist attacks. The Nigerian Army has also announced that it had formalized an agreement with DICON and the Command Engineering Depot on the mass production of the Ezugwu.

Malawi

In January 2020, Malawi Defence Force (MDF) received a new fleet of armoured vehicles from the United Nations (UN) to help the Malawi soldiers in their peace keeping mission in the Democratic Republic of Congo.

Mali

In January 2020, the United Arab Emirates (UAE) is supplied Mali with 30 Typhoon armoured vehicles, for improving Mali's armed forces to fight growing insecurity in the region. The European Union has also delivered another batch of Bastion vehicle.

Ghana

In February 2023, Ghana's president and commander-in-chief Nana Addo Dankwa Akufo-Addo presented the newly acquired vehicles to the Ghana Armed Forces (GAF) in the capital Accra on 1 February. The vehicles include 70 Kamaz trucks, 20 BTR-70 armoured personnel carriers (APCs), 20 Navistar Defence Husky tactical support vehicles (TSVs), and 65 Toyota utility vehicles.

Ghana Army has also acquired Cobra and Cobra II armoured vehicles, produced by the Turkish firm OTOKAR.

Somalia

In August 2020 Turkey donated 12 new armoured personnel carriers to the Somali military to support its fight against al-Qaeda affiliated group al-Shabaab. Somali Defense Minister Hassan Ali Mohamed and Somali armed forces commander Gen. Odawa Yusuf Rageh received the donation at a ceremony held in the capital, Mogadishu.

Tunisia

In January 2020, BMC, one of Turkey's leading defense contractors, is set to produce armoured 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 Armoured Vehicle Tender for the production of a total of nine 4x4 Medium Class Multi-Purpose Armoured Vehicles (MPAVs).

Kenya

The KDF also received 12 Bastion Armoured Personnel Carriers (APCs) from the United States as a donation to help secure its borders and promote peacekeeping in Somalia, where its troops have been serving under the African peacekeeping mission, Amisom. For the APCs, Kenya bought 12 MD5 diesel engines from France, Sipri says.

Uganda

The Uganda People's Defence Forces (UPDF) will receive 45 South African-manufactured Mamba APCs for assembly at the Armoured Vehicle Manufacturing and Assembly Facility in Jinja, which President Yoweri Museveni opened last August.

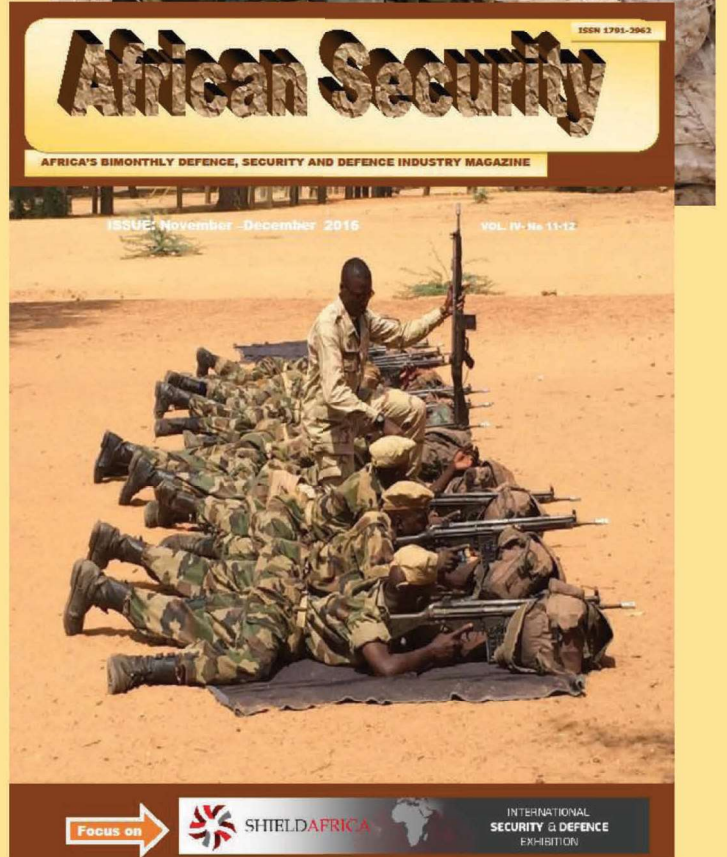
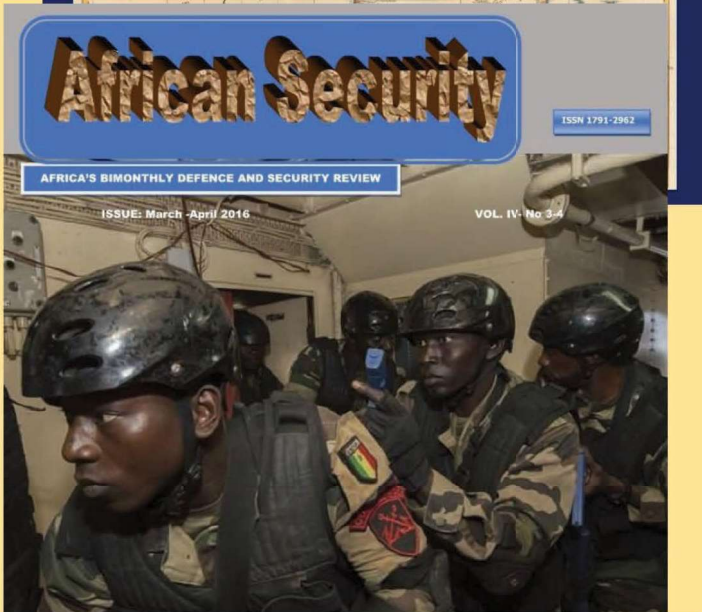
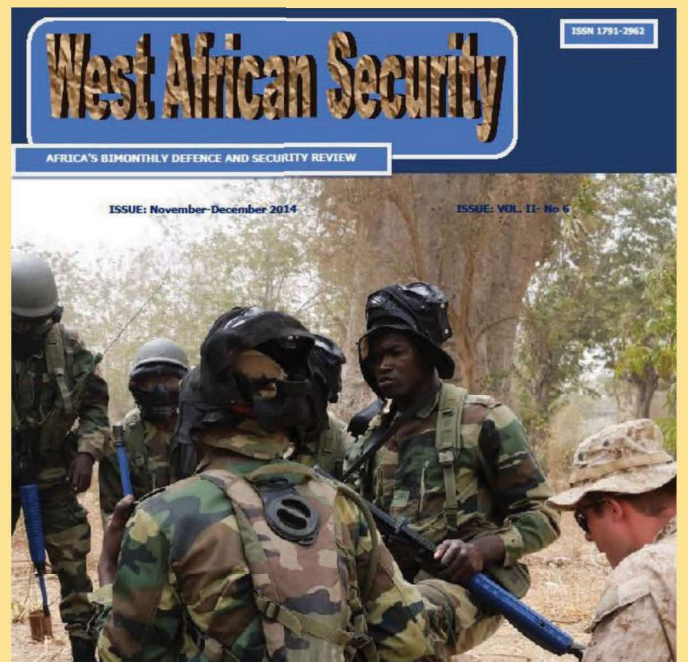
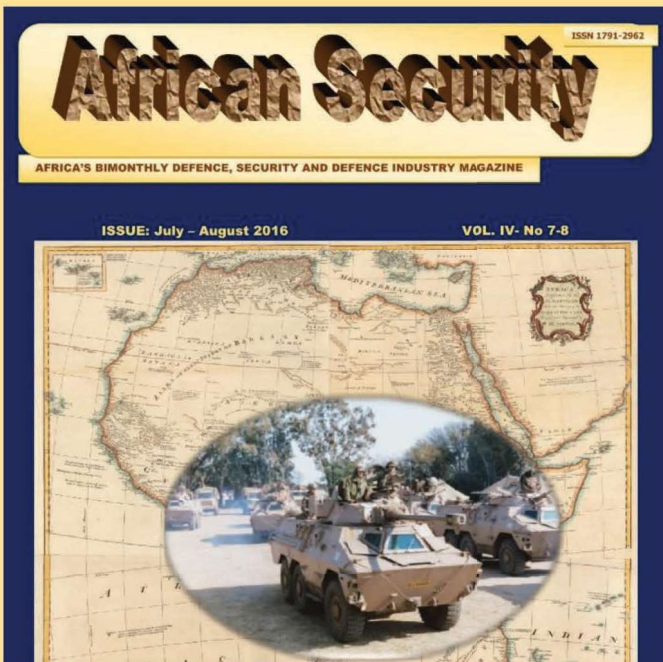
In the last two decades, Russia has managed to deepen its connection with Africa and became the biggest arms supplier on the continent. Russian armoured vehicles for moving and delivering special-purpose units and their equipment are most in demand in African countries. In particular, the BTR-80A, BTR-82A armoured personnel carriers, infantry fighting vehicles as well as the Tigr family of armoured wheeled vehicles.



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RTX's Pratt & Whitney Canada starts the construction of its new facility in Casablanca, Morocco

Pratt & Whitney Canada, an RTX business, hosted the ceremonial inauguration of the company's new manufacturing facility – Pratt & Whitney Maroc (PWM) – that will produce detailed static and structural machined parts for the company's aircraft engines, including the PT6. The event was held in the presence of Mr. Minister of Industry and Trade, Ryad Mezzour, Pratt & Whitney Canada's executives and local business officials.

"Today, we are witnessing the completion of this great project from Pratt & Whitney with the laying of the first stone. The giant's decision to invest in Morocco shows once again investors' confidence in the Moroccan industrial platform and its competitiveness" said Mr. Ryad Mezzour, minister of Industry and Trade of Morocco. "This major project is part of the drive to upgrade the Moroccan aeronautical base by integrating a cutting-edge, innovative and technologically demanding activity".

"We selected Morocco after a careful global benchmarking effort that pointed to Casablanca's growing hub of aerospace companies including RTX's Collins Aerospace," said Maria Della Posta, president, Pratt & Whitney Canada.

"Since the announcement of this significant investment less than a year ago, Pratt & Whitney Morocco has made rapid progress in hiring an initial cohort of local employees and working closely with local schools, agencies and the business community to achieve our goal of being fully operational next year." As of today, the company has started the hiring of employees with the support of the Institut des Métiers de l'Aéronautique (IMA). Additionally, Pratt & Whitney Canada has successfully completed the installation of 80% of major machines in the temporary site in Midparc to support development activities.

"We are delighted to welcome Pratt & Whitney to Midparc, the Casablanca aerospace hub developed by Caisse de Dépôt et de Gestion. The presence in Morocco of a major global player in the sector is further recognition that Morocco's aerospace base is now a must, on Europe's doorstep, thanks to its competitiveness and quality. It also recognizes the quality of Midparc and the relevance of its business model", said Hamid Benbrahim El Andaloussi, President of Midparc.

PWM is being built with lean operating principles to drive efficiency, improve quality and reduce complexity and costs. It will also incorporate advanced environmental practices, a core value for the Company. Once operational, PWM will complement Pratt & Whitney Canada's current manufacturing sites and supply chain and will help secure parts to meet the strong global customer demand. Detailed machined parts and components will support a variety of the company's engine families, supplementing existing Pratt & Whitney facilities and suppliers.

© Pratt & Whitney Canada



Construction of greenfield 12 000 m2 engine parts manufacturing facility expected to create 200 new jobs locally by 2030



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TURKISH COAST GUARD COMMAND



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—1934—



İSTANBUL
CHAMBER
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