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2018 key figures



Cover page photo © AFRICOM - US delivers MD-530F helicopter in Kenyan Defence Forces

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Nigerian Navy, Fleet Modernization

Progressively, the NN has made giant strides especially in the areas of Fleet Recapitalization and operational activities. The continuing Recapitalization of the Fleet is a top priority of the NN under the incumbent Chief of the Naval Staff, Vice Admiral Awwal Gambo. The unflinching support of Mr President and Commander-in-Chief of the Armed Forces, Federal Republic of Nigeria, President Muhammadu Buhari GCFR through aggressive fleet recapitalization, led to acquisition of several capital ships, Fast Patrol Boats, Inshore Patrol Crafts including air assets as well as the indigenous construction of Seaward Defence Boats (SDB). Last year, Nigerian Navy Ship (NNS) LANA, a Hydrographic survey ship, joined the fleet from France in December 2021, while the contract for another 35m Hydrographic Survey Ship has been signed with OCEA Shipbuilding, France. Also, on 1 April 22, the Service took delivery of its newly constructed Landing Ship Tank (LST) – 100, NNS KADA at DAMEN Shipyard in Sharjah, UAE.



Subsequently, the vessel set sail on her maiden voyage to Nigeria. Ladies and gentlemen of the press, NNS KADA is expected in the country on Friday 27 May 2022. Efforts are also ongoing for the acquisition of another LST. Furthermore, the NN recently signed a contract with DEARSAN Shipyard of Turkey for the construction of 2 X 76m High Endurance Offshore Patrol Vessels (OPVs). The NN is also in the process of taking delivery of Unmanned Aerial Vehicles (UAVs) to enhance its Maritime Surveillance/Domain Awareness assets including NN response capability. Needful to add that the construction of SDB IV and V at Naval Dockyard Limited, Lagos has commenced.

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Operation VIKELA SAS SPIOENKOP Sails Back to South Africa

The SAS SPIOENKOP formed part of a maritime component of Operation VIKELA deployed under the SADC Mission in Mozambique (SAMIM). The South African Ship was operating in collaboration with Tanzanian Navy Ship (TNS) FATUNDU and Patrol Boats of Forças Armadas de Defesa Mozambique (FADM).

SAS SPIOENKOP was tasked to conduct barrier patrols along the Mozambican channel (coastline) between Pemba, Tanzania and Mozambique border including the shallow water areas between the mainland and the Islands using Rigid Hull Inflatable Boats (RHIBs). The frigate also had a Maritime Reaction Squadron (MRS) element on board that was responsible for Maritime Interdict Operations (MIO).

© Information and Photographs by Captain
A. Tamela || Joint Operations Division.

The ship arrived in the mission area as a replacement maritime capability after the departure of two South African Offshore Patrol Vessels (SAS MAKHANDA and SAS ISAAC DYOBHA) that left a gap in the maritime domain.

The SAMIM Force Commander, Major General Xolani Mankayi commended the members' efforts and contribution to SAMIM during the official farewell parade that was held on board the ship. "You have been given an enormous task of ensuring that the Mozambique channel is free from terrorist activities and denying them freedom of action along the coast" he said. Furthermore, he praised the ship's company for their contribution to the mission and for accomplishing the tasks that they were given.

The ship will undergo extensive maintenance upon her return to South Africa.

One of the notable successes of SAS SPIOENKOP took place in Matemo Island, where the Maritime Reaction Squadron formed part of an operation with SAMIM Security Forces and successfully launched them onto Matemo Island in pursuit of Al-Sunna Wa Jama'ah terrorists.



EMPOWERING YOUR NAVAL PERFORMANCE



FORESEEING YOUR NAVAL NEEDS

African Armies

Nigeria

The African armies of tomorrow must be designed to be light, agile forces that are costly to train in the short term but easy to maintain in the short and long term, Lt-Gen Andrew Gutti, force commander of the African Union (AU) mission in Somalia, told the Land Forces Conference. African armies should be “designed with correct posture in terms of personnel and equipment so as to make them inter-operable with their allies.

Militaries and armies in Africa are rating basing on their multi-spectral warfare abilities. Best militaries can perform different types of warfare in different areas. They are equipped with different modern equipment to help defend themselves.



**The Chief of Nigerian Army Staff (COAS),
Lieutenant General Faruk Yahaya**

The quest to modernise the Nigerian armed forces has gone beyond mere declaration of policy intent by the Nigerian government. Processes for defence transformation have entailed the establishment of relevant committees to generate blueprints for actualising the initiative. The prospects of defence transformation can be seen in the efforts of the leadership of the armed forces to implement the various recommendations of the transformation committees as well as the incorporation of the requirements of the armed forces in the long-term perspective plan of the government, in addition to the palpable commitment of the country's National Assembly to appropriate requisite financial resources to the defence sector.

The Nigerian Army has been involved in combat operations against terrorist groups, especially, in the North-East where Op LAFIYA DOLE is ongoing. At the same time, other personnel have been involved in conducting various anti-banditry operations in various parts of the country especially in the North-Central Region. The South- South Region has equally been plagued by the activities of Niger Delta militants who are bent on crippling the economy of the nation by engaging in wanton destruction of crude oil and petroleum infrastructures.

Kenya



**Commander Kenya Army Lieutenant General Walter
Koipaton**

Kenya is a key supporter of UN peacekeeping efforts in the international system. Kenya has over the years remained receptive to requests to contribute to peace operations based on the consent of the parties in the host state. Kenya has however remained cautious of involvement in peace operations that have had an enforcement element – the notable exception remains the African Union Mission in Somalia (AMISOM), which Kenyan forces joined in 2012.

Commander Kenya Army Lieutenant General Walter Koipaton said that the Army was strong and will continue to improve and enhance its capabilities to ensure that it is always ready to fulfil its obligations; to defend the Republic of Kenya against land-based aggression.

Ghana

Since independence, the mission of the Ghana Army is to protect Ghana's territorial integrity from foreign aggression, and to maintain internal security.



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Major General Thomas Opong-Peprah Chief of the Ghana Army Staff

Ghana government's intention is to meet the strategic requirement of the Ghana Armed Forces as well as facilitate the Ministry of Defence to acquire personal weapons, troop carrying vehicles, infantry fire-assault vehicles, parachutes and accessories, and road construction equipment for the Army.

Ghanaian men and women have served as United Nations peacekeepers since the early 1970s, participating in operations that stretched from the Sinai to the African continent. The West African Nations is now among the top 10 contributors to UN peacekeeping, with nearly 3,000 personnel serving on eight missions.

Ghana's participation has been very tremendous so far as global peace is concerned. Ghana has established the Kofi Annan International Peacekeeping Training Centre, which serves as a global training center for various aspects of peacekeeping.

Namibia

The mission of the Namibian Army is to operate a cost effective, professional and highly mobile national defence system that will safeguard Namibia's territory, its inhabitants and national interests, and to contribute to national development and world peace.

The Namibian Army has experienced a systematic growth and development. Over the years, the force has successfully and effectively conducted missions through Mandume ya Ndemufayo Operation, Operation Atlantic in the Democratic Republic of Congo and UN Peacekeeping Missions in Cambodia, Angola and Liberia.



Major General MATHEUS ALUEENDO, Commander of Namibian Army

The mission of the Namibia Army is to defend the territorial integrity of the Republic of Namibia, its people, their properties and National Interests. To be well trained, motivated, discipline, equipped, highly mobile and effective in command and control over its formations and units.

Zimbabwe



The Commander ZNA, Lieutenant General David Sigauke

The roles of the ZNA include defending Zim's territorial integrity, independence, sovereignty, socio economic wellbeing, vital interests and participation in peacekeeping operations. Tasks undertaken by the ZNA to fulfil these roles include Conventional War Operations, Military Aid to Civil Power (which encompasses Counter Insurgency Operations and Internal Security Operations), Military Aid to Civil Ministries/Communities and Military Operations in Support of International Order and Humanitarian Assistance.

The ZNA is hierarchically structured. It is a 3-star Headquarters commanded by a Lieutenant General



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IDE utilizes high-end technologies in the design and development of advanced products in the areas of Missile Electronics, Tactical IP Communications, Integrated C4I Systems, Surveillance, Hybrid Electric Power Systems, and Unmanned Systems. The Company retains its international recognition through the long standing participation in European and NATO new technology development programs. Utilizing advanced production capabilities and large-scale project management know-how, IDE is a key player in the high technology sector of the Hellenic Defense Industry.



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who is the Commander ZNA. The Commander ZNA is deputised by 3 Major Generals appointed Chiefs of Staff. Together with the Commander they constitute the ZNA Command Element. Below this structure are 5 staff branches namely: General Staff, Training, Administration, Quartermaster and Inspectorate. General, Administration and Quartermaster Staff Branches sponsor Corps and Directorates, which are grouped according to their specialised roles as listed below:

The ZNA has motorised and mechanised infantry, artillery, special forces and a number of military training establishments under command. The ZNA has played a significant role towards ensuring that peace and tranquillity prevail in Mozambique during period 1983-1992 and in the Democratic Republic of Congo (DRC) under the Southern African Development Community Allied Forces from 1998 to 2002. Pursuant to its external commitment, the ZNA participated in observer and peacekeeping missions in Angola, Rwanda, Somalia, Lesotho, Cote d'Ivoire, Liberia, Nepal, Burundi and Sudan. Furthermore, the Army has taken part in flood and other natural disaster rescue related situations in Namibia, Zambia and Mozambique.

South Africa



Lieutenant General Lawrence Khulekani Mbatha
SA Army Chief

SA Army is operating in an extremely complex environment. However, the SA Army has continued to remain focused and deliver on its mandate, that is to prepare and provide combat-ready forces to CSANDF for operational employment by CJ Ops. To a large extent, this also supports and complements the constitutional mandate of the South African National Defence Force of defending and protecting the sovereignty and territorial integrity of South Africa. SA Army is the last pillar of hope for South

Africans from all walks of life and that the members of the "Pride" have continued to act in a professional manner in executing the SA Army mandate.

Furthermore, the demands on the South African Army will continue to be on an increase as it is expected to fulfill national, regional and international obligations. SA Army lays a strong foundation for the execution of the medium-term plans effectively and efficiently in working towards the end state. This end state remains to arrest the decline as clearly articulated in the strategic guiding document, the Defence Review of 2015.

Defence and Military Veterans minister, Thandi Modise, said the SA National Defence Force (SANDF) will be hard-pressed to respond to critical events due to a severe shortage of resources. Presenting her departmental budget vote the minister warned that these issues could be further exacerbated by a lack of funding and resources for the SANDF. The decline in the performance of the South African economy has placed significant pressure on government and households, and it is becoming difficult to adequately meet all competing needs.

Uganda



LT GEN MUHOOZI KAINERUGABA
COMMANDER UGANDA LAND FORCES

UPDF is a nonpartisan force, national in character, patriotic, professional, disciplined, productive and subordinate to the civilian authority as established under the constitution. The UPDF's interest is to protect Uganda and Africa at large. Providing a safe and secure environment in which all Ugandan citizens can live and prosper.

Uganda Land Forces have the capacity to protect the sovereignty and territorial integrity of Uganda on land. They are strong enough to deter any possible aggregation from across national borders. However, these borders are both long and at times insecure. It is therefore important that sufficient forces be deployed intelligently, and with sufficient speed, to be able to find, contain and destroy the threat.

The land forces are comprised of the Marine, Artillery, Infantry and Armoured Brigade.

Local production of equipment for the African Land Forces

Egypt has announced a plan to boost local manufacturing of weapons of its army and with the ultimate aim to export them to Africa. The launch of a three-year Egyptian weapons manufacturing plan aims to achieve self-sufficiency and export Egyptian weapons abroad. Minister of State for Military Production Mohamed al-Assar announced a plan to develop the arms and ammunition production of the companies affiliated with the ministry, with a total investment of about \$479 million for supporting the Military Factory 300 operating under Abu Zaabal Company for Specialized Industries, which manufactures multiple small- and medium-caliber weapons ammunition and missiles and the manufacture of the Egyptian armored vehicle, dubbed the Sinai 200.

South African Paramount Group is an African manufacturer with export capabilities in aerospace and security innovation with an exceptional reputation for developing and delivering land systems, aerospace, naval systems, advanced technologies and electronic systems.

Kenya has domestic capacity to produce small arms and ammunition. The bullet factory's capacity is 20,000-60,000 bullets per day, while local consumption is about two million bullets per year. Kenya refuses to open its factories for independent verification of their facilities despite ratifying the UN Arms Trade Treaty. The factory produces three types of bullets, namely, 9mm ammunition for the FN35 Browning pistol and the Sterling, Uzi or H&K MP5 submachine guns used by the armed forces; 7.62x51mm for the FNFAL and the G3, the main rifles used by the armed forces; and 5.56mm ammunition, used by the Kenya police.

In Namibia, Windhoek MaschinenFabrik (WMF), under the Namibian Defense Force, has manufactured small numbers of wheeled light-armored vehicles since 1977, including some for export.

The Proforce PF Viper is a FAST ATTACK Infantry Assault Vehicle (IAV). It is the latest design by the Proforce Team to answer to the need of the Armed Force's requirement for a fast-moving, light weight, easy-to-maintain, and multi-terrain vehicle with superior protection serving as a reliable companion.



FORCE BEHIND THE FORCES

Our vision is peace and stability. Armed deterrence is a powerful policy to preclude the destructive elements from marring peace, bringing stability and reconciliation ultimately.

To combat with valor, we deliver the best defense equipment to support the **armed forces for maintaining peace and stability.**



EGYPT – TOW 2A RADIO FREQUENCY (RF) MISSILES AND SUPPORT

On 19 May 2022, the State Department has made a determination approving a possible Foreign Military Sale to the Government of Egypt of TOW 2A Radio Frequency (RF) Missiles, Support, and related equipment for an estimated cost of \$691 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale today.

The Government of Egypt has requested to buy five thousand (5,000) TOW 2A, Radio Frequency (RF) missiles, BGM-71E-4B-RF; and seventy (70) TOW 2A, Radio Frequency (RF) missiles, BGM-71E-4B-RF (Fly-to-Buy Lot Acceptance missiles).

Also included is missile support equipment; technical manuals/publications; spare parts; tool and test equipment; training; U.S. Government technical and logistical support, contractor technical support, and other associated equipment and services; and other related elements of logistical and program support. The estimated total cost is \$691 million.

This proposed sale will support the foreign policy and national security of the United States by helping to improve the security of a Major Non-NATO Ally that continues to be an important strategic partner in the Middle East.



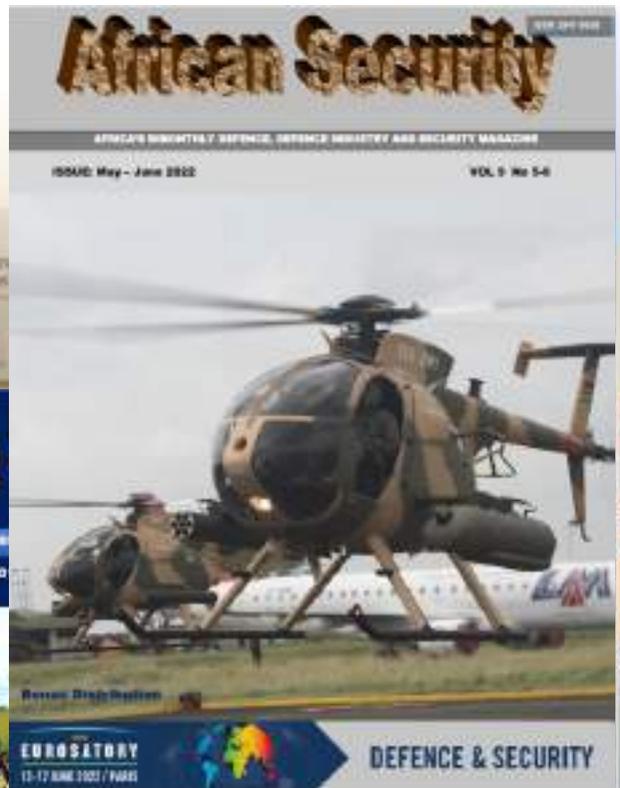
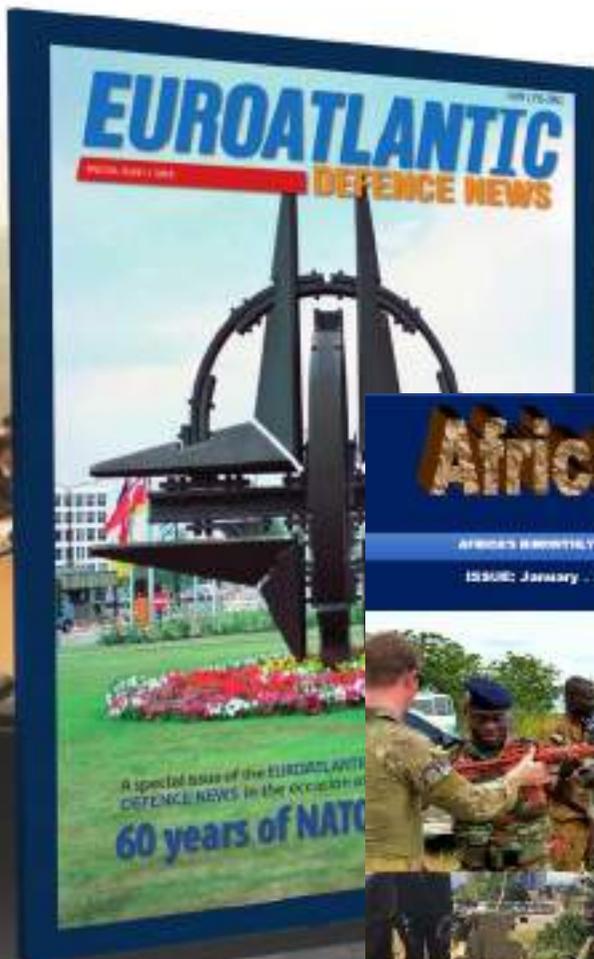
The proposed sale will enhance Egypt's capability to strengthen its homeland defense by replenishing its stocks. The missiles will be used for counterterrorism and border security against armored threats and fortified positions. Egypt will have no difficulty absorbing these additional missiles into its armed forces. The proposed sale of this equipment and support will not alter the basic military balance in the region. The principal contractor will be Raytheon Missiles & Defense, Tucson, AZ. There are no known offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will not require the assignment of any additional U.S. Government or contractor representatives to Egypt. There will be no adverse impact on U.S. defense readiness as a result of this proposed sale. This notice of a potential sale is required by law. The description and dollar value is for the highest estimated quantity and dollar value based on initial requirements. Actual dollar value will be lower depending on final requirements, budget authority, and signed sales agreement(s), if and when concluded.





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HAVELSAN **Coastal Surveillance and Radar System (CSRS)**

Having Command and Control System products/solutions deployed on land, surface, underwater and air platforms; HAVELSAN uses its reconnaissance, surveillance, detection/identification, recognition, decision support, maritime control capabilities within the systems provided to the Naval Forces Command, Coast Guard Commands and several Ministries. It offers security, inspection and traffic services in the seas, coasts and straits surrounding Turkey through the use of products such as the Coastal Surveillance Radar System, the Turkish Straits Vessel Traffic Services and Long Horizon System. In this context, we can emphasize that HAVELSAN is the prime contractor for Turkish Coastal Surveillance Radar Systems.

CSRS is integrated with external systems/institutions and internally with coastal surveillance stations and operations centers in order to ensure seamless surveillance of the coasts of Turkey in Aegean, Marmara and Western Black Sea regions using radar and electro-optical sensors.

The CSRS Project aims to create near-real-time maritime picture by providing maximum sensor coverage in maritime jurisdiction regions during peace and wartime in order to facilitate homeland security and search/rescue activities more effectively in our seas and to increase the level of interoperability with other public institutions.

With the completion of the project, all territorial waters and adjacent regions within Turkey's sovereignty will be fully and effectively monitored for crimes such as smuggling, illegal immigration,



comprehensive and interoperable system such as the data produced by the Marine Information System of the CSRS, which is a first in our country, is shared with many government institutions/organizations simultaneously.

The system consists of two networks, the Coastal Surveillance Information System (CSIS) and the Marine Information System (MIS). CSIS is used for sharing information between Ankara Operations Center, Regional Identification and Monitoring Centers and Coastal Surveillance Stations, whereas MIS is used to share information between civil/military public institutions, based on the defined Common Data Model and Service Oriented Architecture. Military/civil public institutions involved with MIS are as follows: Coast Guard Command, Ministry of Transport and Infrastructure, Turkish Navy, Ministry of Environment and Urbanization, Ministry of Agriculture and Forestry, Ministry of Customs and Trade, General Directorate of Meteorology.



The main building blocks of CSRS namely Main Operations Center, Four Identification and Monitoring Centers and 11 Coastal Surveillance Stations are integrated with public institutions within the scope of the Phase-1 of the current project, by means of the indigenous CSRS software.

Basic Capabilities and Features of CSRS:

- Time stamped detection,
- Marine track management,
- Automatic task management with coast guard elements
- Authentic Search/Rescue automation
- Classification and identification
- Fusion of tracks (integration),
- Messaging and reporting infrastructure
- Decisional aids,
- Risk assessment capability,
- Sensor and remote communication control capability,
- Video recording and playback,
- Training and simulation,
- Station security control,
- Selective operation and simulation modes,
- Built In-device testing and failure reporting,
- Maintenance and failure tracking system,
- Service Based Integration Infrastructure,
- Three-layered architecture,
- Web-based and thick client fit to purpose applications,
- Distributed, secure and high available architecture,
- Secure network architecture with no single point of vulnerability.

The project is planned in phases by the Turkish Coast Guard, so that in upcoming phases of the project, all coasts of Turkey will be equipped with surveillance stations and centers.



All in all, CSRS aims to provide situational awareness with radar coverage for a country's coastal and territorial waters to create the Recognized Maritime Picture by supporting data from electro-optic sensors, Public Institutions and/or other organizations. It is certain that it will enable governments to increase the effectiveness of law enforcement and search / rescue activities in their coasts and territorial waters. Moreover, the system has the potential to contribute to ecological endeavors through effective fight against marine pollution and illegal fishing.

The increasing transnational incidents, criminal activities and border disputes threaten not only individual countries and their bilateral relations but also global peace and security at all. Coastal areas are among the primary lines of defence for government authorities to protect citizens and critical infrastructure. Thanks to its stance as a company working for safer world and its special requirements with its advance technologies, HAVELSAN will be among the prominent players to provide its solutions in this field to fulfill the demands of countries which are keen on improving both the safety of their coasts and the security of their homelands.



GAF HOSTS EXTRAORDINARY MEETING OF ECOWAS CHIEFS OF DEFENCE STAFF

The Chief of the Defence Staff (CDS) of the Ghana Armed Forces (GAF) and Chairman of the Committee of Chiefs of the Defence Staff of the Economic Community of West African States (ECOWAS), Vice Admiral Seth Amoama has hosted an Extraordinary Meeting with the Committee's members in Burma Camp.

The two-day meeting on 5 and 6 May 2022 brought together the Chiefs of the Defence Staff of the 15 member states of ECOWAS.

The conference was to discuss the implementation of the recommendations from their 41st Session held in Abidjan, Cote d'Ivoire which was focused on the tackling of the regional security situation arising from terrorist attacks and increased illegal activities at sea. The meeting was also to deliberate on priorities for operational and logistics support and modalities for allocating capacities to member states among others things.

The CDS in his opening address congratulated the participants for their collective efforts and expressed

his appreciation for their cooperation and commitment to peace and stability within the sub region.

Vice Admiral Amoama reiterated that the security situation in the sub region continues to pose a challenge to socio-economic development. He further urged the Defence Chiefs to be active in all regional meetings to help develop a solid contingency plan for the progress of the region.

The Special Guest of Honour and Minister for Defence, Hon Dominic Nitiwul, on behalf of the Chairman of ECOWAS and President of the Republic of Ghana said the forum was also to offer the regional bodies the opportunity to dialogue on defence and security matters affecting the sub-region. He spoke on prioritizing the maintenance of peace and security in the various jurisdictions and encouraged the Defence Chiefs to play a pivotal role in shaping defence and security policies to achieve the desired objective of peace. He added that the region presents huge socio-economic development and investment opportunities in the maritime and land domain, but without collaboration, this economic potential he cannot materialize. Hon Nitiwul appealed to the participants to protect the decision of the people in their respective countries by allowing them to choose their own leaders to govern them. This, he stated will affirm democracy rather than resorting to coup d'etats.



Bestfly expands offshore helicopter fleet in Angola with AW139 order



© Leonardo

- First fully owned AW139 for Bestfly, adding to two leased AW139s and four AW169s ordered in 2021
- Leonardo's helicopter fleet supports the energy industry in Africa, which has almost doubled in the last eight years thanks to the latest generation design, performance and safety standard of its AW Family range of models
- The AW139 is the world's most successful helicopter programme since its certification in 2004 with orders of more than 1,250 units to date and the benchmark for offshore transport duties

Bestfly is expanding its fleet of Leonardo helicopters configured for offshore transport missions in Angola. The recent order of Bestfly's first fully owned AW139 intermediate twin engine, is expected to be delivered in the Q3 of 2022. This aircraft adds to two previously leased AW139s and four AW169 light intermediate twins purchased at the end of 2021,

which made Bestfly the first local operator to introduce the AW169 in the African market. This latest AW139 contract potentially paves the way for further sustainable growth of the operator's rotorcraft fleet in the region. Bestfly's fleet of helicopters is expected to consist of seven Leonardo aircraft by the end of 2022, and with a total fleet of 30 aircraft.

Bestfly's AW139 and AW169 helicopters are intended to conduct onshore and offshore passenger and equipment transport in the energy mining and tourism industries in Angola by leveraging latest technology and navigation/mission avionics, latest certification and safety standards, outstanding performance, the largest cabin in their respective categories and a modern maintenance approach. This latest order provides further evidence of the potential in the African energy market for Leonardo's latest generation helicopter models. The African Oil&Gas market is showing promising signs, considering reserves, and the opportunities for new projects. With over 200 units, the helicopter fleet comprises types from various OEMs supporting the energy industry in Africa which is one of the biggest in the world.

Over the last eight years, Leonardo has been the only manufacturer able to expand its presence in the African offshore market, almost doubling the number of aircraft thanks to the AW Family range of models (the AW139, AW189 and, more recently, the AW169) which deliver greater versatility and performance and higher safety standards. With over 60% of the existing offshore helicopter fleet still made of old design types, Leonardo's state-of-the-art helicopters are well positioned to meet fleet replacement and modernisation programmes among operators in the region.

The world's most important helicopter programme since its certification in 2004 and the bestselling type in its category, the AW139 has logged orders for over 1,250 units from more than 290 customers in over 80 countries logging in excess of 3 million flight hours to date, and it's the benchmark platform in the energy industry today. The AW139 delivers outstanding capabilities, technology and safety to meet stringent requirements from operators for tasks in harsh conditions to maximise effectiveness. The type features state-of-the-art avionics with advanced navigation and collision avoidance systems to enhance situational awareness and reduce pilots' workload, unmatched speed, power margins and overall performance, the widest cabin in its category featuring high modularity for rapid reconfiguration, a unique 60+ min run-dry capable main gear box for enhanced reliability and safety and up to 1,000 certified kits.

The first pilots graduate from the International Flight Training School



The International Flight Training School (IFTS), a strategic partnership between the Italian Air Force and Leonardo conceived to create an advanced flight training centre for pilots from the world's air forces, awarded the first international graduations.

The International Flight Training School (IFTS), a partnership between the Italian Air Force and Leonardo in collaboration with CAE, awarded the first Phase IV (Advanced/Lead-In to Fighter Training) diploma to two pilots of the Luftwaffe, the German Air Force, further to the completion of their training. The training activity took place over a course of nine months at the Galatina airport (Lecce, Southern Italy), home of the 61st Wing of the Italian Air Force, which is currently hosting the IFTS. The school is destined to reach its final base with the inauguration of a new campus in Decimomannu, Sardinia.

The IFTS project stems from the desire to bring together two national excellences: the skills in training military pilots from the Italian Air Force, strengthened through more than 75 years of experience at the Galatina flight school, with the advanced technological solutions of Leonardo, Italy's leading industrial body in the field of aerospace and defence. IFTS is a programme with a very high strategic value, allowing, once fully operational, the doubling of the current offer through the creation of a new training centre, which – for the military side – will remain under the single banner of the 61st Wing, distributed between the Galatina air base and that of Decimomannu, in Sardinia.

Thanks to highly experienced instructor pilots, both military and

civilian, and the advanced integrated training system based on Leonardo's M-346 aircraft (named T-346A by the Air Force), the IFTS represents an international centre of excellence, with the aim of training military pilots to operate the latest generation fighters, providing them with the technical and procedural skills necessary for deployment in modern, increasingly complex operational scenarios.

The new IFTS campus, currently under construction at the Decimomannu Air Force Base (Cagliari), has been designed around the training needs of future student pilots. An entire building will be dedicated to the Ground Based Training System (GBTS), comprising latest-generation simulation systems, which allow integrated training scenarios between simulated and real aircraft, thanks to Live Virtual Constructive (LVC) technology. In addition, logistic-maintenance infrastructures will be set up to manage the operation of the fleet of 22 M-346 aircraft in force at the IFTS, as well as logistic-receptive infrastructures to host trainees during training (accommodation, canteen, sports facilities). "Leonardo CAE Advanced Jet Training", a company born from the partnership between Leonardo and CAE, will provide the maintenance and logistical support of the fleet of M-346 aircraft and simulators.

During the Phase IV course (Advanced/Lead-In to Fighter Training), participants also have the opportunity to train in real-life shooting scenarios in dedicated training areas, enabling the ability to test on the field the skills acquired.

Today, in addition to Germany, other countries have also chosen IFTS for the advanced training of their pilots, confirming the interest paid to the Italian training system, a unique trainer on the international scene.

© Italian Air Force



HENSOLDT

in Africa



HENSOLDT is a pioneer of technology and innovation for defence and security electronics. Based in Taufkirchen near Munich, HENSOLDT is a German company with strategic leadership positions in the field of sensor solutions for defence and security applications. As a technology leader, HENSOLDT also continuously expands its Cyber portfolio and develops new products to combat a wide range of threats based on innovative approaches to data management, robotics and cybersecurity.

With the company's largest operations outside of Europe in Africa, HENSOLDT is proud to call the region 'home'. From a start-up over 50 years ago, HENSOLDT now has over 600 staff in the region today. In South Africa, the company designs, manufactures, and sells a variety of highly technical solutions for defence and security applications which are exported around the world. Moreover, HENSOLDT employs a few dozen staff in Algeria for a project there.

HENSOLDT is committed to growing its presence in Africa. It consolidated its two South African subsidiaries, GEW Technologies (Pty) Ltd and HENSOLDT Optronics (Pty) Ltd, under the HENSOLDT brand. This strategic move will better leverage HENSOLDT's global footprint to open new market opportunities for the company's South African products, such as jammers, RF direction finders, and gimbals.

With Tellumat, HENSOLDT's most recent signed acquisition (expected to close in the fourth quarter of 2020), the company aims to achieve a combination of both strategic goals, focusing on radar technology capabilities specifically in South Africa. Together with its strong partners in Africa, HENSOLDT is finding innovative solutions to defence and security challenges.

Xpeller is a modular security solution that scales and integrates multiple sensors and countermeasures to protect sensitive areas against the threat of small drones. From airports to single buildings and high-profile events to military camps, Xpeller detects, identifies, and neutralises drone threats using RF direction finders, radars, optics, jammers or capture drones.

ARGOS-II is designed for installation on helicopters, fixed wing aircraft and unmanned aerial vehicles to provide observation and targeting capabilities for military, border and maritime patrol and law enforcement missions.



© HENSOLDT- ARGOS-II

Protecting territorial waters and EEZs

Serving Naval and commercial marine industry for more than 60 years, Israel Shipyards Ltd is one of the largest publicly held shipbuilding facilities in the Eastern Mediterranean. Israel Shipyards is most well-known for its patrol craft, such as its successful Shaldag series, which has been bought by a number of African countries fact that reflects the company's position as a recognized professional and high-quality market player in the fields of planning, production and development of naval vessels. Israel Shipyards Ltd in an exclusive interview given to the AFRICAN SECURITY magazine reports on its latest developments.

AFRICAN SECURITY: Israel Shipyards Ltd is an exceptional shipbuilding unit with regard to expertise and capability for designing, developing, and manufacturing various types of vessels for short- and long-distance protection, developed to prevent illegal activity and maritime terrorism, provide coastal protection for Naval forces, and protect territorial waters and EEZs. Can you give us some background on how the company got started? What are the values of your company?

Israel Shipyards was founded in 1959 as a governmental-owned company, to provide for the needs of the Israeli Navy and to increase employment opportunities in the northern region of Israel. Over its first decades, the company built dozens of Naval and merchant vessels, focusing solely on the Israeli market including the SHALDAG Fast Patrol Craft and SAAR 4 and 4.5 class - the Fast-Attack missile Vessels for the Israeli Navy. Those vessels are combat proven and in active service since.

In 1995, the company was privatised and started to look further afield, to include overseas customers with a special focus on the African, Latin American, and Asia Pacific markets.

Today the company is an internationally recognised builder of top-quality Naval vessels for customers around the world, continuously developing its portfolio to offer new designs in response to the challenges of the maritime environment. Its manufacturing and repair plant is spread over 330,000 sq. metres with 45,000 sq. metres of under-roof facilities and a wharf length of 1000 metres.

Israel Shipyards values are to deliver complete, integrated, tailor-made "Turn-Key" solutions of the highest quality – from the vessel itself to all installed systems – according to the customer's precise requirements. Among the solutions installed on these vessels are cutting-edge weapon systems as

© ISL- SHALDAG MK V & MK II





© ISL-Vessels Construction

well as command and control, electro-optics, and night vision systems. Protecting shorelines around the world, the company specializes in defence systems that prevent illegal activity and maritime terrorism and defend territorial waters and EEZ. It provides customized missile corvettes, Offshore Patrol Vessels (OPVs), fast patrol craft, multipurpose boats, and floating docks – many of which are in active service in the Israeli Navy as well as in the navies, Coast Guards, and law enforcement authorities around the world.

Israel Shipyards' State-of-the-Art plant also includes large deep-water docks, large workshops, and floating docks, allowing easy modification, and upgrading – including the most complex renovations, conversions, and expansions – of all existing vessels.

AFRICAN SECURITY: Where does Israel Shipyard Ltd stand today, and what have your strategic priorities been recently?

As for today we have multiple projects on site in different stages of construction of the renown SHALDAG MK V Fast Patrol Craft and OPVs to main customers.

We can disclose that there are several active orders from several international customers including the Israeli Navy, each custom- made to their needs to gain maritime superiority solution.

Israel Shipyards' strategy is to deepen cooperation with leading suppliers and companies to increase the supply of the products and services the company provides to its customers and will enable us to expand our range of services and Naval solutions as well as extending our activities into new markets.

Offering our variety of renown OPVs e.g., SHALDAG the company offers the Corvette family - SA'AR class, based on the 'RESHEF' corvette that was designed to the Israeli Navy. The "RESHEF" Class is a multi-mission vessel with modular design which can be used in Naval warfare or used as an OPV.

AFRICAN SECURITY: Could you tell us about Israel shipyards Ltd, approach towards developing new products? What R&D initiatives has the company pursued to remain competitive in the marketplace?

Israel Shipyards in-house development based on experienced, top scaled ex-Israeli Navy engineers, managers, and production team enables the company to design, manufacture and deliver turn-key projects to customers' specifications and demands by utilizing the Navy's shared combat experience portfolio and its access to the latest defence technologies in the customized planning of every new vessel and repair project.

Customers also benefit from a dedication to uncompromising quality, lifetime support, and competitive pricing. Israel Shipyards is also offering the option of Transfer of Technology packages as well as financial support to its customers.

Our projects are tailored to the customer's requirements from the weapons suite and machinery systems up to the number of bunks and the gally equipment mounted on the vessel. In addition to this, as part of our involvement in the Israeli defence community, our projects are equipped with state-of-the-art Israeli combat systems and sensors turning them into the most mission-ready and cost-effective vessels.

AFRICAN SECURITY: How do you place Israel shipyards Ltd, in the African market? Can you please tell us about Israel Shipyards Ltd procedures for Knowledge transfer in shipbuilding projects related to African customers?

The African market for us is a major and strategic market, knowing the needs and challenges of the maritime zone for each country and tailored the necessary solution, technology packages as well as financial support. We also have comprehensive Transfer of Technology (ToT) programs that enable our customers to use local labor, infrastructure, and resources as well as create extended independence for the domestic industry. The ToT is conducted upon demand and based on current capabilities and upgrading options, and the programs are adjusted as required up to a full-scale ToT including training of engineers and the workforce, and provision of the required infrastructure for vessel building and maintenance.

AFRICAN SECURITY: Are there any new developments you can share with our readers concerning future export activities?

Our latest development is the 'RESHEF' class Offshore Patrol Vessel (OPV) the vessel is designed, developed, and manufactured by Israel Shipyards to the Israeli Navy as a Light corvette with Advanced Surface to Air capabilities and Complete Combat suite for attack and defense missions in parallel. Based on the SA'AR S-72's proven design, it will provide the advanced capabilities that will be required in future combat scenarios – as well as for the protection of EEZs and offshore oil and gas facilities, by vessels that will be at sea for long periods.

The new corvette design is available to our international customers as a multi-mission vessel with modular design, which can be used in Naval warfare and/or used as an OPV. The new corvette can operate a medium size marine helicopter and it also supports unique possibilities of deploying special forces units.

It's sea-keeping capability is the best for vessels of this size.

AFRICAN SECURITY: What are Israel shipyards Ltd, ambitions for the future?

Israel Shipyards top priority is our customers satisfaction; therefore, we strive to provide a complete, integrated system, quickly and flexibly. We supply the vessel as well as all the systems required for installation on the vessel according to the demand. Our products – which are of the highest quality and rapidly delivered – are tailor-made according to the unique needs and requirements of our customers. Our production lines formulated based on a modular process for shipbuilding. This service allows the customer to select the most convenient and economical option for the long and short term. We are aiming to be a leading supplier and partner to the African countries and supporting their efforts for increasing their capabilities for self and local vessels construction and maintenance.

© ISL-OPV-62 & SHALDAG MK II



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NATO SHIPS VISIT TUNIS STRENGTHENING PARTNERSHIP WITH TUNISIA



© <https://mc.nato.int> - A group of Tunisian cadets conducted a visit on board Margottini during the stopover and had the opportunity to discuss with staff how NATO crews operate at sea, and to see their workplaces.

Standing NATO Maritime Group 2 (SNMG2) flagship Italian Navy ITS Carlo Margottini (F592) and Spanish Navy ESPS Blas De Lezo (F103) visited Tunis from May 7 to 9 for a scheduled port visit. The port visit was a valuable opportunity to re-supply and for SNMG2 to work together with Tunisia to enhance interoperability between partner nations. "It's always a pleasure for NATO units to visit Tunis during our activities at sea," Commander, SNMG2 Rear Admiral Mauro Panebianco said. "This is one way to enhance the partnership between NATO and Tunisia in the Mediterranean Dialogue framework. The cooperation with our partners is essential to reach interoperability and reinforce cohesion to guarantee Maritime Security in the Mediterranean Sea."

The cooperation with our partners is essential to reach interoperability and reinforce cohesion to guarantee Maritime Security in the Mediterranean Sea

The Commander of the National Coastal Surveillance Service and the mayor of La Goulette, Tunisia, welcomed SNMG2 and the NATO ships with their crews to La Goulette port remarking Tunisian authorities' pleasure to host the NATO units in their country. The visit furthered the cooperation process with Tunisia that started in 1995 as part of the Mediterranean Dialogue initiative.

On May 10, SNMG2 departed Tunis to conduct a Passing Exercise with Tunisian Navy PLM CARTHAGE (P503) executing a serialized schedule of training activities, which included a maneuvering exercise and voice communication procedures exercise improving the capability of the NATO partners to operate together.

La Goulette is a strategic point for allied forces to conduct maritime assurance activities in the Mediterranean Sea. Upon completion of the PASSEX, SNMG2 resumed its program in the Mediterranean including participation in the Italian Exercise Mare Aperto '22. SNMG2 provides a strong international presence in the region demonstrating strength and cohesion among NATO allies and partners and working together to keep peace and preserve security on the high seas.



ECOMIG GHANCOY 5 RETURNS HOME



© Ghana Armed Forces

A mission accomplishment parade has been held for Ghana Company 5 (GHANCOY 5) after a successful one-year tour of duty with the Economic Community of West African States (ECOWAS) Mission in Gambia (ECOMIG) on Monday 9 May, 2022 at the Air Force Base, Accra.

Addressing the parade, the Director General (DG) Defence Communication and Information Systems, Brig Gen Anthony Ntem who was the Reviewing Officer commended the troops for the professionalism they displayed during their tour in the Gambia.

He stated that the Military High Command had monitored their operational activities keenly since their departure and was aware of the challenges and constraints under which they operated in the Mission Area. He however assured personnel that critical measures were being put in place to ease the constraint under which troops operate in the Mission Areas.

Brig Gen Ntem mentioned that as part of the expansion and restructuring of Ghana Armed Forces (GAF) Formations, new Units had been established to help in safeguarding the territorial boundaries of Ghana. He urged all who would find themselves posted to these new establishments to demonstrate a high sense of professionalism, loyalty and discipline at all times. "Whatever positive operational lessons you have learnt should be applied to the benefit of GAF." he said.

On behalf of the Chief of the Defence Staff and the Military High Command, he presented a citation to the Commanding Officer (CO), Lt Col Andrew Awuni for his immeasurable commitment and contribution towards the successes chalked by the Company during their tour of duty.

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UNITED NATIONS SECRETARY GENERAL COMMENDS TROOPS OF OPERATION HADIN KAI



© Nigerian Army

The United Nations Secretary General Antonio Guterres was in Borno State on Tuesday 3 May 2022 to assess the North East region which has been plagued with the activities of terror groups for over a decade. The visit was necessitated due to the fact that the counter terrorism war against the terrorists has in the last one year assumed a different dimension following the mass surrendering of the insurgents and members of their family to the troops.

This unprecedented act which came as a result of the tireless and determining effort of troops of Operation HADIN KAI attracted global attention and necessitated the visit of the UN Secretary-General who led a delegation from the world body to assess the humanitarian situation.

During the tour, the UN Chief was led to some Internally Displaced Persons (IDPs) Camps in the state and also one of the holding facility for the repentant insurgents and thereafter paid a courtesy visit to Borno State Government House in Maiduguri.

In his remarks at the Government house, the UN Chief commended Operation HADIN KAI for their roles in the mass surrendering of the insurgents which viewed as a sign to ending the crisis. Mr Antonio Guterres also lauded the effort of the Armed Forces of Nigeria for rescuing some kidnapped victims from the terror groups enclaves.

The Theatre Commander JTF NE Operation HADIN KAI, Major General CG Musa, was present during the historic visit and also joined His Excellency Professor Babagana Umara Zulum to bid farewell to the UN Secretary General at the airport.

HOW TROOPS OBLITERATED BOKO HARAM TERRORISTS ALONG FRINGES OF LAKE CHAD, TUMBUS



© Nigerian Army, Mohammed Yerima, Brigadier General
Director Army Public Relations

...Destroy Gun Trucks, Capture Arms, Ammunitions Elements of Boko Haram Terrorists and their Islamic State West Africa Province (ISWAP) counterparts operating along the fringes of the Lake Chad and the Tumbus met their Waterloo when they encountered dogged troops of Sector 3 Operation LAFIYA DOLE on Saturday, 13 March, 2021.

The combined troops of the Sector which were on clearance patrol along the fringes of the Lake Chad had advanced and cleared Daban Massara and Ali Sherifti villages among other settlements before they harbored for replenishment and retrofitting. However, as they commenced the second phase of their operations and advancing along the Kukawa – Monguno road, about 14 kilometers to their base, they sighted BHTs/ISWAP gun trucks and swiftly commenced pursuit with heavy fire and deft maneuver.

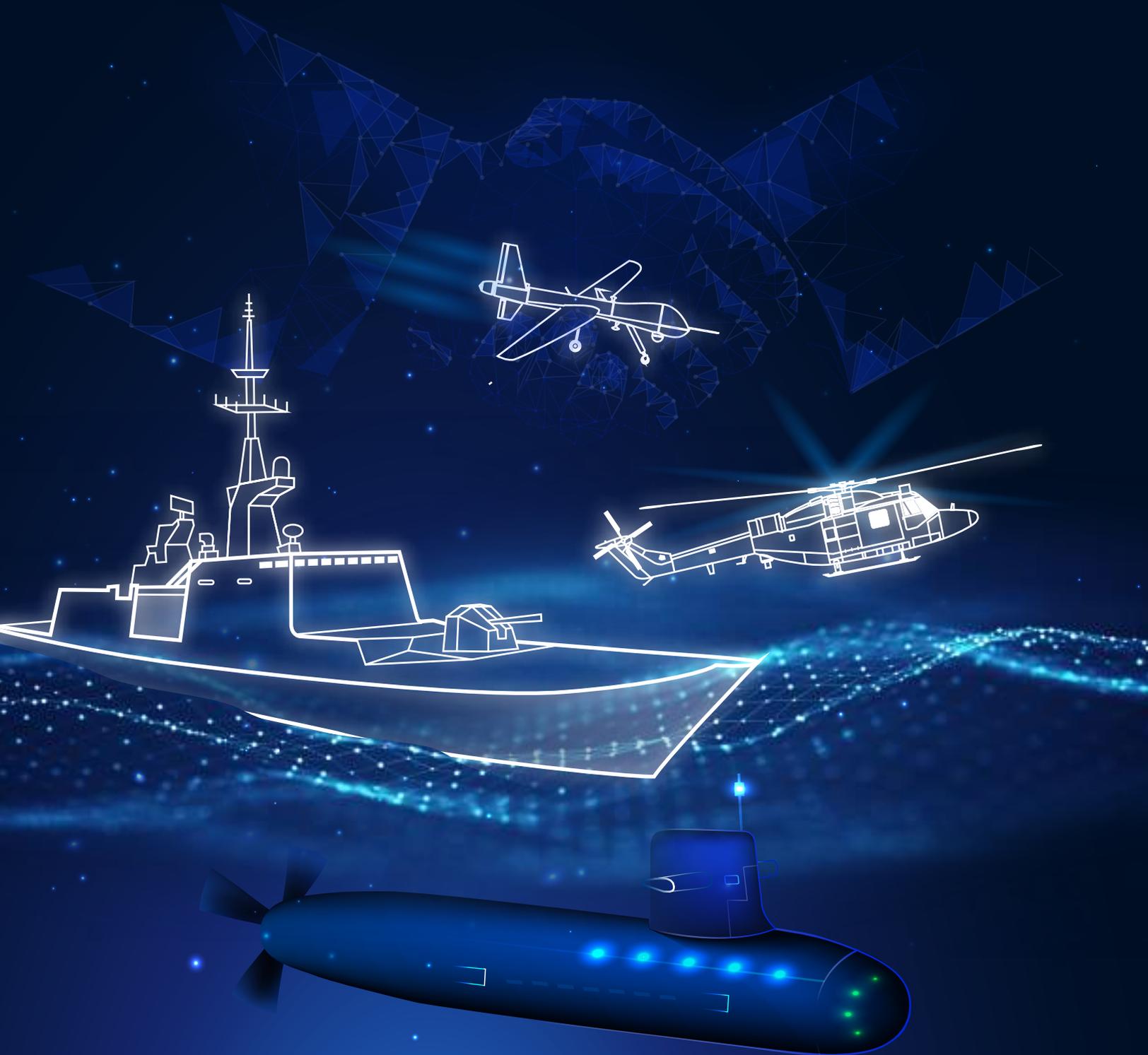
In the course of the hot pursuit which was aided by air cover provided by the Air Task Team of Operation Lafia Dole, several terrorists were neutralized, and their gun trucks destroyed. Unfortunately, however, 1 officer and 3 gallant soldiers paid the Supreme sacrifices while those wounded in action are currently receiving medical attention at 7 Division Medical Services and Hospital in Maimalari Cantonment.

Above is on-the-spot account of the encounter between Nigerian troops and the Boko Haram/ISWAP terrorists in Monguno area and environ. Members of the public are assured that the troops are on top of the situation and working assiduously to end the insurgency and terrorism in country in line with the directives of the Chief of Army Staff.



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US Army Europe and Africa commander visits Botswana, Kenya



© U.S. Army Europe and Africa Command

U.S. Army Europe and Africa Commanding General, Gen. Christopher Cavoli, visited military leaders in Botswana and Kenya April 10-14, to discuss mutual security interests in eastern and southern Africa.

Cavoli met Lt. Gen. Francis Omondi Ogolla and Lt. Gen. Walter Raria Koipaton, Kenya vice chief of defence forces and Kenya army commander, respectively. Kenya Defense Forces recently hosted U.S. Africa Command's Exercise Justified Accord 22, led by U.S. Army elements subordinate to Cavoli's U.S. Army Europe and Africa headquarters. Later, Cavoli traveled to Gaborone, Botswana, to meet senior governmental officials there. He visited with Hon. Dr. Lemogang Kwape, minister of international affairs and cooperation, and Hon. Kagiso Mmusi, minister of defence, justice and security. He also met with Deputy Commander of the Botswana Defence Force, Maj. Gen. Mpho Mophuting, and Maj. Gen. Joseph Seelo, Ground Force Commander, Botswana Defence Force.

During the visit, Cavoli gathered feedback about last month's African Land Forces Summit at Fort Benning, Georgia, attended by Botswana and Kenya army leaders and nearly 40 other ground force commanders. He also discussed future engagement and cooperation opportunities, such as Justified Accord 23, theater security cooperation and other upcoming multilateral engagements. "Both Kenya and Botswana have highly capable and professional armies that are addressing regional security threats with outstanding vision and leadership," Cavoli said. "The U.S. Army remains committed to engaging with our African partners and continuing to coordinate security cooperation training and operations on the continent.

"Security in the U.S. and Europe is inextricably linked with security in Africa," he said. "Synchronizing with our African and European partners, as well as our State Department country teams, is crucial as we continue strengthening those relationships and supporting regional security."

GOC EASTCOM VISITS TROOPS IN SOMALIA



© Kenyan MOD

General Officer Commanding Eastern Command (GOC EastCom) Major General Ayub Matiiri last week visited Kenya Defence Forces (KDF) troops deployed under African Union Transition Mission in Somalia (ATMIS). In his address to the troops, Major General Matiiri appreciated their selfless efforts and urged them to remain vigilant, maintain discipline and professionalism in executing their duties. The General Officer visited KDF troops deployed at the Old and New Airports in Kismayo, Kuday and Abdale Birole in Somalia. The GOC was accompanied by Army Special Operations Commander (ASOB) Brigadier Seif Rashid and other Senior Officers. KDF leadership visits to troops in operation areas, as is customary with most militaries, is often considered a morale booster.

UK MINISTER FOR ARMED FORCES PAYS COURTESY CALL ON CS DEFENCE



The United Kingdom Minister for the Armed Forces Hon. James Heappey on Monday, 9th May 2022 paid a courtesy call on Kenya's Cabinet Secretary for Defence Hon. Eugene Wamalwa at the Defence Headquarters in Nairobi. The two leaders held talks on bilateral cooperation and partnerships on defence matters between the two countries. Also present during the courtesy call were British High Commissioner to Kenya Her Excellency Jane Marriott, Vice Chief of the Defence Forces Lieutenant General Francis Ogolla and other UK officials.



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Saab live training on African ground



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The importance of interoperability and realism in training is larger than ever in land forces training. Saab's live training solutions is a key in enabling this capability. The system is fully deployable to train at the point of need and tailored to the capabilities of land forces training.

The number of customers are growing and in addition to major contracts signed with Netherlands, Poland and U.S. Marine Corps we are also working with deliveries on a recent order from the Republic of Kenya's Ministry of Defence. The contract includes a complete, new generation solution for live training including soldier systems (personnel detection devices), vehicle training systems, hand grenades and training applications for a variety of weapons.

The contract also includes the latest generation Exercise Control System (EXCON) and communication system, in addition to training courses for users and maintenance personnel. Kenya is however not a totally new user of Saab Training and simulation equipment, even if this is the first direct contract with this customer. The Kenyan Army has used Saab equipment provided by the British Army during joint training as part of the UK's Tactical Engagement Simulation in Kenya (TESIK) exercises.

"This is the first contract that we have won with the Kenyan Defence Force which opens up a new market for us in Africa. It's a great honour and responsibility to have been selected to provide our training systems to the Kenya Army. Our solutions will ensure a cost-effective way to train, with the most realistic training solution on the market," says Åsa Thegström, head of Saab's business unit Training and Simulation.

This opens up great technical, possibilities to conduct also interoperable, multinational training in some really demanding Kenyan terrain.

SERVICE CHIEFS PAY WORKING VISIT TO 3 GARRISON



On Thursday 19 May 2022, the Chief of Army Staff, Major General Thomas Oppong - Peprah and the Chief of Air Staff, Air Vice Marshal Frank Hansen paid a day's working visit to Forward Operating Bases (FOBs) at Dorkorkyina and Bui to ascertain firsthand the current security situation in both camps and their respective Areas of Operation. The visit was necessitated by the recent security situation in our neighboring countries and the need for the Ghana Armed Forces to remain professional, robust and alert at all times.

At the Dorkorkyina Camp, the Chief of Air Staff was delighted at the pace of work in the new camp and was hopeful that work would continue at the same pace to ensure the urgent completion of the rest of the FOB.

On his part, the COAS thanked the Chief of Air Staff and the whole of the Ghana Air Force for their unwavering support in the conduct of various Army operations, exercises and events. He said there was the need for all to remain united to achieve the tasks of the military competently.

The delegation also visited the construction site at FOB Bui to inspect progress of work there. The Director for Health and Safety of Bui Power Authority (BPA) met with the delegation and assured them of the anticipated timely completion of the project.

Following a tour of the site, the COAS intimated that due to the security threats in the sub region, it had become imperative for the project to be completed expeditiously so that more troops could be deployed there to assure the security of the national asset and its environs against emerging threats.

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Kenya's Defence and Security



**HON. EUGENE LUDOVIC WAMALWA, EGH CABINET SECRETARY,
MINISTRY OF DEFENCE**

In order to maintain our independence, ensure socio- economic development and security of our citizens we need a capability to defend our sovereignty and territorial integrity against all forms of threats. To acquire and administer the necessary capability, we have to adopt and uphold measures that emphasize the need to minimize the use of force. However, should our interests be threatened, force will be applied to restore peace on most favourable terms in the shortest time possible.

Our political independence, the integrity of our national territory, the security and socio-economic well-being of our people comprise our basic national interests. We have a duty to safeguard these interests with all means at our disposal. In doing so, emphasis will be on political and diplomatic efforts, rather than military means as the first recourse. Kenya's foreign policy objectives aim to reduce tension and potential for conflict in our region and the world at large and to foster mutual respect and cooperation between states.

The global security environment is dynamic and unpredictable. Globalization has resulted in a smaller world, where security threats anywhere in the world cause security concerns in our country. To surmount these threats, there is need for cooperation with other Ministries, Departments and

Agencies within the whole of Government approach concept. At the same time, collaboration with other international organizations and partners is critical in combating these threats including participation in Peace Support Operations.

Terrorism is and continues to be the greatest threat to international peace and security. The systematic dismantling of the Al Qaeda (AQ) terror organization by neutralization of its key leadership at the international level has seen it mutate into numerous international/ regional/local terror groups like ISIL, Al Shabaab, Boko Haram etc.

The basic role of the Defence Forces of Kenya therefore is to deal with military threats. It is responsible for the defence and protection of the sovereignty and territorial integrity of the state; assist and co-operate with other authorities in situations of emergency or disaster and report to the National Assembly whenever deployed in such circumstances. It may also be deployed to restore peace in any part of Kenya affected by unrest or instability only with approval of the National Assembly.

To effectively execute this mandate, self-sustenance is key. In this regard, the Ministry is proactively pursuing capacity development in support of the national industrialization process through research based technological innovations and transfer of appropriate technology in the development of Defence Industrial Capacity.

In developing its human resource, the Ministry takes cognizance of the constitutional requirement of fulfilling gender mainstreaming and making use of all available talent.



U.S. Air Force combat aviation advisors assigned to Air Force Special Operations Command showcase Kenya's newly acquired C-145 Skytruck to President Uhuru Kenyatta and Kenyan officials in Nairobi, Kenya, May 12, 2021

Continuous training is a major component of military capacity building. To this end, access to land for training activities and for Defence security purposes calls for clear understanding of the need to reserve land for military use. . This calls for the development of new ways of enhancing relationships between the Ministry and the devolved governments

Kenya's National Interests

Our political independence, the integrity of our national territory, and the security and socio-economic well-being of our people comprise our basic national interests. We have a duty to safeguard these interests with all the means at our disposal. In doing this, emphasis will be on political, rather than military means as a first recourse. This is the general thrust of our grand strategy on which this White Paper is anchored.

The Defence White Paper is informed by our national interests, values and principles. Our interests are to be protected, advanced and promoted at all times as they pertain to the survival of Kenya as a strong and stable state. Kenya's interests include the following:

- a. Sovereignty and territorial integrity.
- b. National security.
- c. Economic prosperity

The Kenya Army

The Kenya Army is mandated with the defence and protection of the sovereignty of the Republic against land-based threats. Further it will assist and cooperate with other authorities in situations of emergency or disaster. Additionally, the Army may be called upon to restore peace in any part of Kenya affected by unrest or instability only with the approval of the National Assembly.

The Kenya Air Force

The Kenya Air Force is mandated to defend the Republic against external air aggression, provide support to sister Services in their pursuance of national objectives; and assist and cooperate with other government authorities in situations of emergency or disaster. Additionally, the Air Force may be called upon to restore peace in any part of Kenya affected by unrest or instability only with the approval of the National Assembly.

The Kenya Navy

The Kenya Navy is mandated to defend the Republic against all armed threats from the sea. In accomplishing this mandate, the Navy's role is to engage and destroy forces before they reach our shores, keep maritime approaches to our ports secure and open to commercial shipping. The Kenya Navy also protects Kenya's economic resources, facilities and activities at sea from illegal

interference and render aid to civil authorities in the maintenance of order in civil emergencies. Additionally, the Navy may be called upon to restore peace in any part of Kenya affected by unrest or instability only with the approval of the National Assembly. (Source: Defence White Paper)



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 September 1, 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 and

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 × infantry brigade
- 1 × tank brigade
- 3 × artillery battalion
- 2 × air defence artillery battalion
- 1 × mortar battalion
- 2 × anti-tank battalion
- 121st Engineer Regiment
- 1 × 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 Brigade. iner 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.



Paramount Maritime Launches Advanced 35m Sentinel Vessel

03 May 2022, Paramount Maritime, subsidiary to Paramount Group, announced the christening of the MV TUGUEMI 35m Sentinel vessel, which took place at Hamlet Quay in Elliot Basin, Cape Town, South Africa.

With dignitaries and special guests in attendance, the occasion marked the second inauguration of the latest version of the 35m Sentinel high-speed, multi-purpose naval vessel within a few months. The 35m Sentinel is optimised for coastal patrols and cargo transfer duties, among a myriad of other mission assignments that the multi-purpose vessel can perform. Following the christening, the vessel will be deployed in the greater Gulf of Guinea (GoG) region, a recognized hotspot in 2022 for oil and gas (O&G) piracy, bunkering, and kidnapping activities, often undertaken by armed militant cabals.

The state-of-the-art 35m Sentinel is an aluminum-hulled maritime platform with an optimal V-bottom hull shape. Sporting a length of 35 metres, a beam of 7.5 metres and draught of 2 metres, the Sentinel comfortably hosts up to 6 cabins for both crew and security personnel.

Ensuring mission survivability and utmost personnel security, the Sentinel's wheelhouse and main deck accommodation structure is fitted with composite ballistic armour while gun mounts and ballistic shields are fitted to offer robust coverage around the vessel. The vessel design offers next-generation wheelhouse protection of STANAG Level II and deckhouse ballistic protections of STANAG Level I. Powered by three Caterpillar C32 main engines developing 1,193 kW each and three propellers, allows for a range at economical speed of 1,300 nautical miles (NM).

The Sentinel's 11x6 metre cargo deck can further accommodate 20 tons of cargo or a 20-foot shipping container. A 6.5 metre semi-rigid boat can also be launched via a davit.

Paramount Maritime employs highly qualified personnel operating in numerous manufacturing facilities, providing steadfast maritime solutions for the African shipbuilding industry and beyond. The company develops highly customised solutions that address localised challenges, delivering world-class security protections, while adhering throughout to globally recognised environmental, social, and corporate governance (ESG) criteria.

In the arena of security and foreign policy, the maritime space has been regarded as suffering from 'sea blindness' and is often overlooked as an economic priority. At a recent high-level security seminar organized by the Economic Community of West African States (ECOWAS) in Abuja, Nigeria, the Head of ECOWAS' Regional Security Division, Col. Abdourahmane Dieng, affirmed that maritime insecurity in the region had long been "...one of the most persistent and intractable threats to maritime communities and economic prosperity in West Africa".

Paramount Maritime CEO, Lee Connolly, stated that, "The launch of the 35m Sentinel Vessel, named the MV TUGUEMI, is yet another milestone in our production of a world class product made proudly in Africa, for Africa". "Indeed, the ramifications of maritime piracy, including kidnappings and even assaults plague the whole of Africa's trajectory, not just their points of origin. Rule of law in Gulf of Guinea (GoF) territorial waters and their associated blue economic zones has been routinely challenged and such crimes hit record-heights during the COVID-19 pandemic, which in turn exacerbated already-constrained supply chains across the continent".

© Paramount Maritime



MILSAR Successfully Detected Drifting Mines Appeared After Ukraine-Russia Conflict



The synthetic aperture and moving target indicator radar (SAR/MTI) developed by Turkish defense company, MILSAR can scan large areas of the sea surface to take detailed images and enable real-time detection of drifting mines. "Drifting mines" that appeared in the Black Sea following the Ukraine-Russia conflict pose an important security risk.

MILSAR Radar, which enables UAVs, which act as "observation points" in the sky with their long tenure, to be active even in severe weather conditions where electro-optical systems are ineffective or when flying over the cloud, has added mine detection to its capabilities. Turkey has become one of the few countries that can detect mines on the sea surface using radar technology from UAVs thanks to the ANKA UAV integration of MILSAR.

Synthetic aperture and moving target indicator radars are essential sensors for reconnaissance and surveillance aircraft and satellites because they can continue to provide high-resolution images in weather conditions where electro-optical sensors are ineffective, such as fog/cloud top.

Thanks to its under 30 kg weight, high-resolution image capability from long ranges, easy integration into platforms, and user-friendly features, MILSAR adds power to UAV platforms.

MILSAR, which can detect and track moving targets on the ground in the target detection function, allows for images with a resolution of up to 30 centimeters regardless of distance, even when there is no vision.

It is stated that MILSAR SAR/MTI Radar started to operate in coordination with the Turkish Naval Forces Command after the mine threats emerged. Mines can be detected in real time in SAR mode using MILSAR images, which take detailed images by scanning large areas of the sea surface.

MILSAR SAR/MTI Radar developed by Meteksan Defense as a project of the Defence Industry Agency was integrated into the ANKA unmanned aerial vehicle (UAV) of the Turkish Naval Forces Command and started mine detection in April. President of Defence Industry Agency, Prof. Dr. Ismail Demir, announced the development of the usage of MILSAR, stating that Turkish UAVs have gained a new capability.



EURONAVAL launches the SEAnnovation 2022 call for applications

Paris, 30th March 2022

On Wednesday 30th March, Euronaval 2022, the world's largest naval defence exhibition, which will be held in Paris Le-Bourget from 18th to 21st October 2022, is launching its call for applications for SEAnnovation, the space dedicated to startups and technologies of the future, in partnership with EOLOS

SEAnnovation, the EURONAVAL exhibition's business incubator Created in 2018, SEAnnovation is at the heart of the exhibition and aims to host and promote around thirty French and foreign startups in a dedicated space animated by round tables, keynotes and pitches over the four days. All startups involved in technological innovation in the naval defence or dual-use sector, including vehicles of the future, predictive maintenance, connectivity, cyber defence or artificial intelligence for navies, are invited to apply. The aim is to cover all areas of naval defence expertise. Once the call for applications has closed, at the end of May, all the applications will be examined by the Euronaval board and a maximum of 36 startups will be selected to exhibit at the exhibition under privileged conditions.

For the selected startups, this is a unique opportunity to get to know the naval industry's prime contractors, to meet naval officers and decision-makers from all over the world. The SEAnnovation space, strategically located near the Ministry of Defence and GICAN stands, allows startups to take advantage of the exhibition's international visibility to develop their reputation. SEAnnovation was one of the great successes of EURONAVAL 2018. The French President, Emmanuel Macron, spent a long time at SEAnnovation to exchange with the startups during his visit to the exhibition.

SEAnnovation key figures

- 36 startups expected
- 18 pitch sessions each day, i.e. 2 pitches per startup over the four days of the exhibition
- 129 official delegations from 64 countries present at the exhibition
- 25,000 professional visitors Press

EURONAVAL will be back in physical format from 18 to 21 October 2022

In a year's time, EURONAVAL, the world's biggest naval defence exhibition, will be hosting exhibitors and visitors on-site again. After a fully digital edition in 2020, EURONAVAL will be back in physical format at Paris-Le Bourget from 18 to 21 October 2022.

An unmissable calendar highlight for commanders and prescribers from all military and state navies, the 28th EURONAVAL exhibition will bring together all of the naval companies and leading figures from the 5 continents. In 2018, French President Emmanuel Macron attended EURONAVAL, which celebrated its 50th anniversary that year.

480 exhibitors took part, 60% of whom from abroad, and 142 official delegations were hosted. In October 2020, since the exhibition could not be held in its usual format owing to the health crisis, EURONAVAL was the only naval defence trade show to put on a 100% digital edition packed with insights, called EURONAVAL-Online.

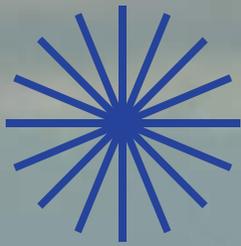
This digital event made it possible to maintain connections between all of the naval industry stakeholders, thereby shoring up its role as a catalyst for the economy and the global naval industry.

As underscored at the opening of EURONAVAL-Online by Agnès Pannier-Runacher, Minister Delegate for Industry: "EURONAVAL-Online is an opportunity for celebrating an entire sector and for driving it forward". The prospect of a physical exhibition held on-site is sparking anticipation and tremendous enthusiasm, with many exhibitors having already confirmed their participation.

EURONAVAL 2022 is already shaping up to be the flagship event for naval technologies of the future. 'Trade shows have been unable to take place for too many months. They are a key link of the global economy, promoting discussion, meetings and international trade agreements. The sense of excitement is already palpable, among exhibitors and our visitors alike, at the idea of getting back together in person at the EURONAVAL exhibition in Paris-le Bourget, from 18 to 21 October 2022.' Hugues d'Argentré, CEO of SOGENA and General Manager of EURONAVAL.



Proud to host NATO Naval Armaments Group (NNAG)
annual heads of delegations meeting



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Meet the policy makers, operators and technologists shaping the future of naval defence in the Mediterranean, Red and Black Seas.

Chaired by the Honorable Chief of the Hellenic Navy General Staff, Admiral Kosmas Christidis, MAST MED 2022 will feature plenary and technical sessions of the highest calibre, supported by the top authorities in Greek and global government ministries, military, academia, and industry:

- * *The Mediterranean - Laboratory for Naval Warfare*
- * *Understanding Hellenic Procurement Processes*
- * *The Digital Ocean/Domain Awareness (from sea-bed to space)*
- * *Immigration: Policies, procedures, operations*

After a Covid-19 induced hiatus, MAST's sixteen year anniversary is noted by eager anticipation, of auspices of Hellenic Ministry of National Defence, hosting NATO's NNAG annual heads of delegations meeting, focused exhibits, and numerous networking functions: MAST's unique environment to discuss future maritime defence technologies and collaborations, and all at the foothills of The Acropolis, in central Athens.

MAST MED 2022 will be the most inclusive MAST event to date, with all registered attendees enjoying complimentary coffee breaks together, and lunches and the annual party

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Leonardo: U.S. Department of Defense awards \$ 29 million contract for new AW119Kx helicopters in Foreign Military Sale to Israel

Israel's Ministry of Defence previously ordered seven AW119Kx helicopters plus a comprehensive training service and capabilities package in 2019. The AW119's success among defense and homeland security operators has been growing in years in many nations including USA, Portugal, Finland, Latvia, Brazil, Ecuador, Republic of Korea among others.

Leonardo welcomes the \$ 29 million USD contract award by the U.S. Department of Defense for new AW119Kx aircraft in the framework of Foreign Military Sales (FMS) to Israel, with the U.S. Army Contracting Command as the contracting activity. The aircraft will be fully produced at Leonardo's facility in Philadelphia, Pennsylvania.

Israel's Ministry of Defence is already an AW119Kx customer. In 2019 a contract was signed for a comprehensive range of integrated defense training capabilities, which included seven AW119Kx single engine helicopters to be produced in the United States. The comprehensive training program also includes full flight simulators and other training devices, newly built facilities and a 20-year support package.

The best-in-class single engine helicopter available, the multirole AW119 has proven increasingly successful in recent years in the world's defense market for both training and operational mission profiles.

In 2020, the U.S. Department of Defense awarded a contract for up to 130 AW119's to replace the aging TH-57 Sea Ranger as the primary training helicopter for the U.S. Navy, Marine Corps and Coast Guard, with 104 units on order to date. Additionally, the Portuguese Air Force presently uses their fleet of five AW119s for training, MEDEVAC, troop transport and short-range maritime SAR and may be used for firefighting.

The number of AW119 operators continues to grow as the type has been chosen for defense, homeland security and law enforcement missions by operators in countries such as USA, Portugal, Finland, Latvia, Brazil, Ecuador, and the Republic of Korea, among others.

The versatile AW119 features both VFR and IFR capable core avionic systems for enhanced situational awareness, mission effectiveness and safety, giving operators different options to meet their specific needs.

The type delivers outstanding overall performance with a strong power margin and the largest cabin in its category, able to accommodate up to six passengers depending on configuration. Over 470 AW119s have been sold to date.



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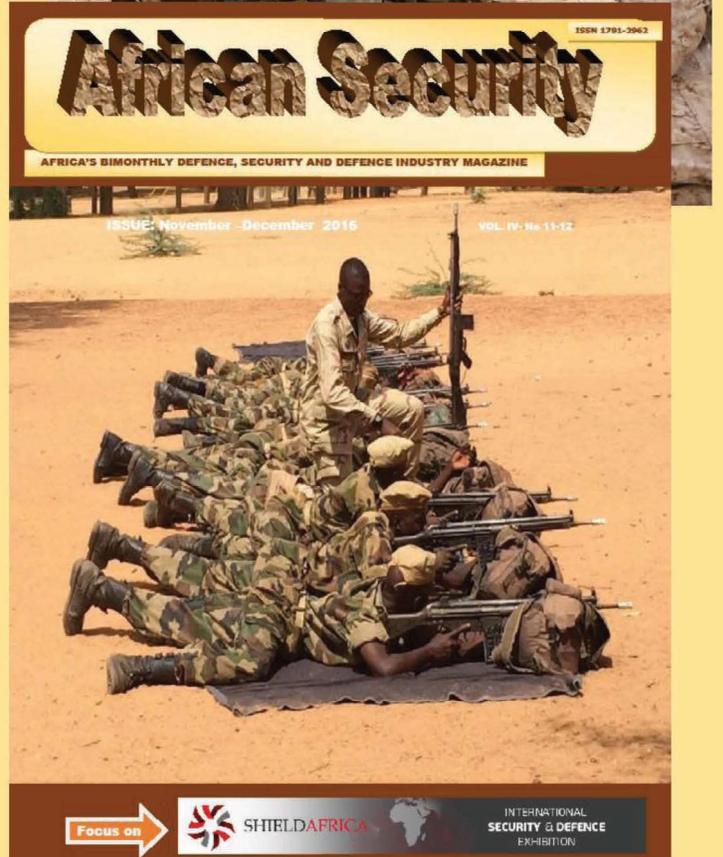
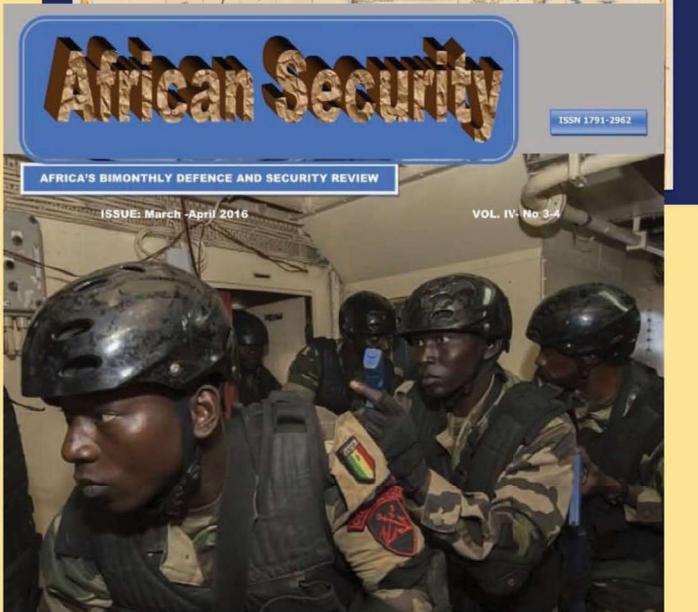
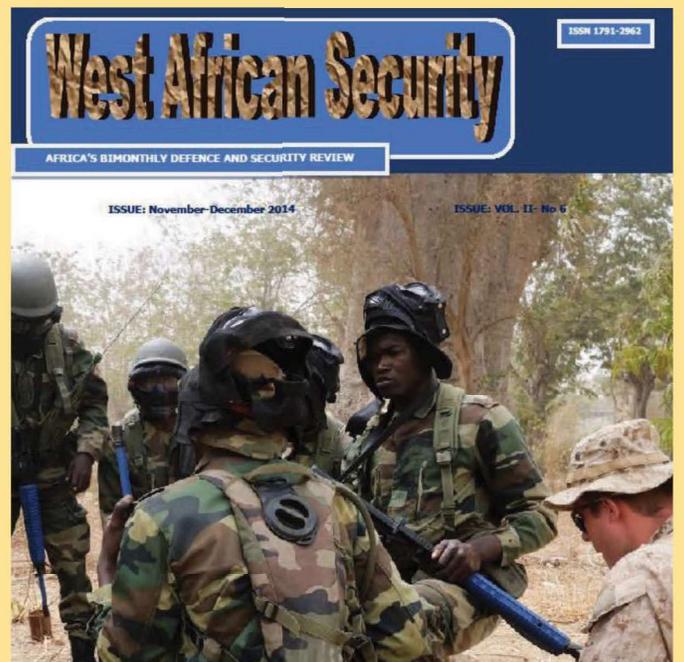
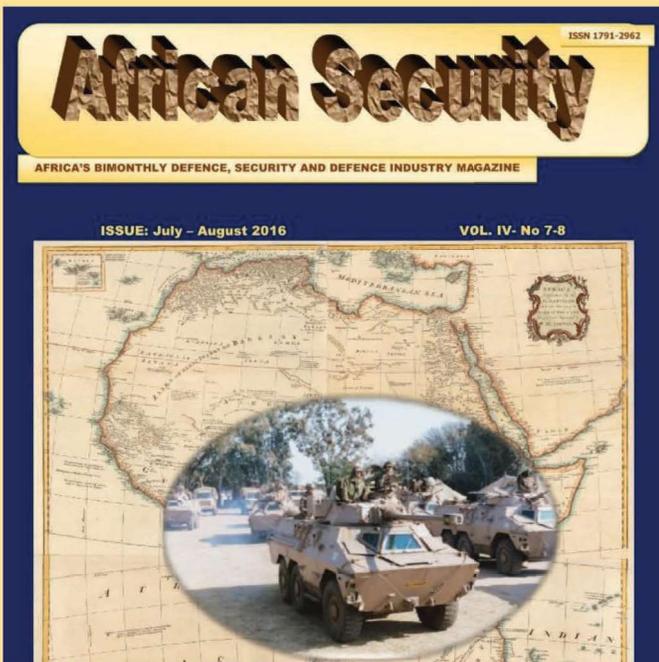
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