

Wednesday, May 21, 2025

THE OFFICIAL SHOW DAILY

LIMA'25: Malaysia's Commitment to Defence Readiness, Regional Peace



Aerial display by RMAF fighters.

By ADJ Team

MALAYSIA'S hosting of the Langkawi International Maritime and Aerospace Exhibition 2025 (LIMA'25) reflects the nation's strong commitment to defence preparedness, regional peace and strategic collaboration amid rapidly evolving global security challenges.

Speaking at the LIMA'25 opening ceremony at the Langkawi International Convention Centre (LICC) yesterday, Prime Minister Anwar Ibrahim said Malaysia's geopolitical position as a maritime nation surrounded by the Indian Ocean, the South China Sea and the Strait of Malacca underscores the importance of maintaining defence readiness while upholding peace in the region.

Despite Southeast Asia's reputation as one of the most peaceful and economically vibrant regions in the world, Anwar said that maintaining peace must never be taken for granted, instead, it requires continuous investment in defence capabilities and preparedness against unpredictable global developments.

"I must state that any country to secure and ensure peace, there must be preparedness

and must be able to appreciate the changing circumstances. From the report I have seen the change not only unprecedented, the pace of change, particularly with new technology and AI (artificial intelligence), is exceptional and it is precisely for this reason that we find the exhibition in defence... is displayed for us to learn, share and see," he

was quoted as saying in a Bernama report.

Also present were Chief of Defence Force General Mohd Nizam Jaffar, Army Chief General Mohd Hafizuddeain Jantan, Air Force Chief General Mohd Asghar Khan Goriman Khan and Navy Chief Admiral Zulhelmy Ithnain.

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Prime Minister Anwar at the KAI pavilion.

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ROKETSAN

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Anwar emphasised that Asean, as a bloc, remains a pillar of regional stability, hence, Malaysia welcomes the participation of global powers including China, India, Korea, the US and European nations in LIMA'25. He said the presence of those countries signals not only support and build meaningful cooperation, but also reflects the shared ambition to shape the future based on progress, resilience and collaboration.

The maritime and aerospace exposition kicked off yesterday with an aerial flypast, dynamic displays and an impressive collection of planes and ships. The 17th iteration of the show has attracted a diverse collection of participants and exhibitors, with the largest being Turkish defence industries, and those from Russia, China, India and the major European countries. Russia's Rosoboronexport is returning to LIMA after six years while newcomers include Iran.

"So again, let me express my profound thanks to all of you, ministers and senior officials from various countries and companies who took time off and participate in this LIMA exhibition to portray your spirit of cooperation and taking Malaysia as a great friend," he said, adding that the presence of those countries signals not only support and build meaningful cooperation but also reflects the shared ambition to shape the future based on progress, resilience and collaboration.

"From the report I have seen the change not only unprecedented, the pace of change, particularly with new technology and artificial intelligence, is exceptional and it is precisely for this reason that we find the exhibition in defence... is displayed for us to learn, share and see," he added.

Besides that, Anwar said LIMA'25 also offers a critical platform to showcase the latest advancements and foster collaboration between nations and defence industries, both globally and within Malaysia's own ecosystem. At the same time, he described this edition as far more successful than the previous LIMA, crediting the ministers

especially Minister of Defence Mohamed Khaled Nordin and international partners for their contributions in elevating LIMA to greater prominence.

With LIMA as one of the world's foremost defence and commercial aerospace exhibitions, the exhibition is not just about military displays, it's about building partnerships, supporting local industries, and to keep pace with innovation for national and regional security.

The Prime Minister also touched on Malaysia's continuous engagement in multilateral security efforts, such as joint border committees, the Malacca Strait patrols, and trilateral cooperation frameworks which have yielded tangible outcomes in maritime safety. "We ascribe to the Asean position of centrality takes a very strong committed position to engage with all our neighbouring countries and partners, East and West, United States, China, India, Australia and the rest and I think this for me, means truly strategic engagements with partners that will secure and ensure peace for the present and future," he added.

He also reaffirmed Malaysia's global stance on peace and security, including its long-standing role in United Nations peacekeeping missions and its support for inclusive initiatives such as the Women, Peace and Security agenda.

LIMA'25 is co-organised by the Ministry of Defence and Global Exhibitions and Conferences Sdn Bhd (GEC). Organisers will see the exchange of several Memoranda of Understandings (MoUs), reflecting the government's ongoing efforts to develop local capabilities in the aviation and maritime sectors.

Mohamed Khaled said among the MoU to be signed at the exhibition, scheduled from yesterday until this Friday, were those involving the development of an artificial intelligence defence satellite programme and the establishment of an aviation centre of excellence.

Themed "Today's Progress, Future Achievements", LIMA'25 is one of the largest

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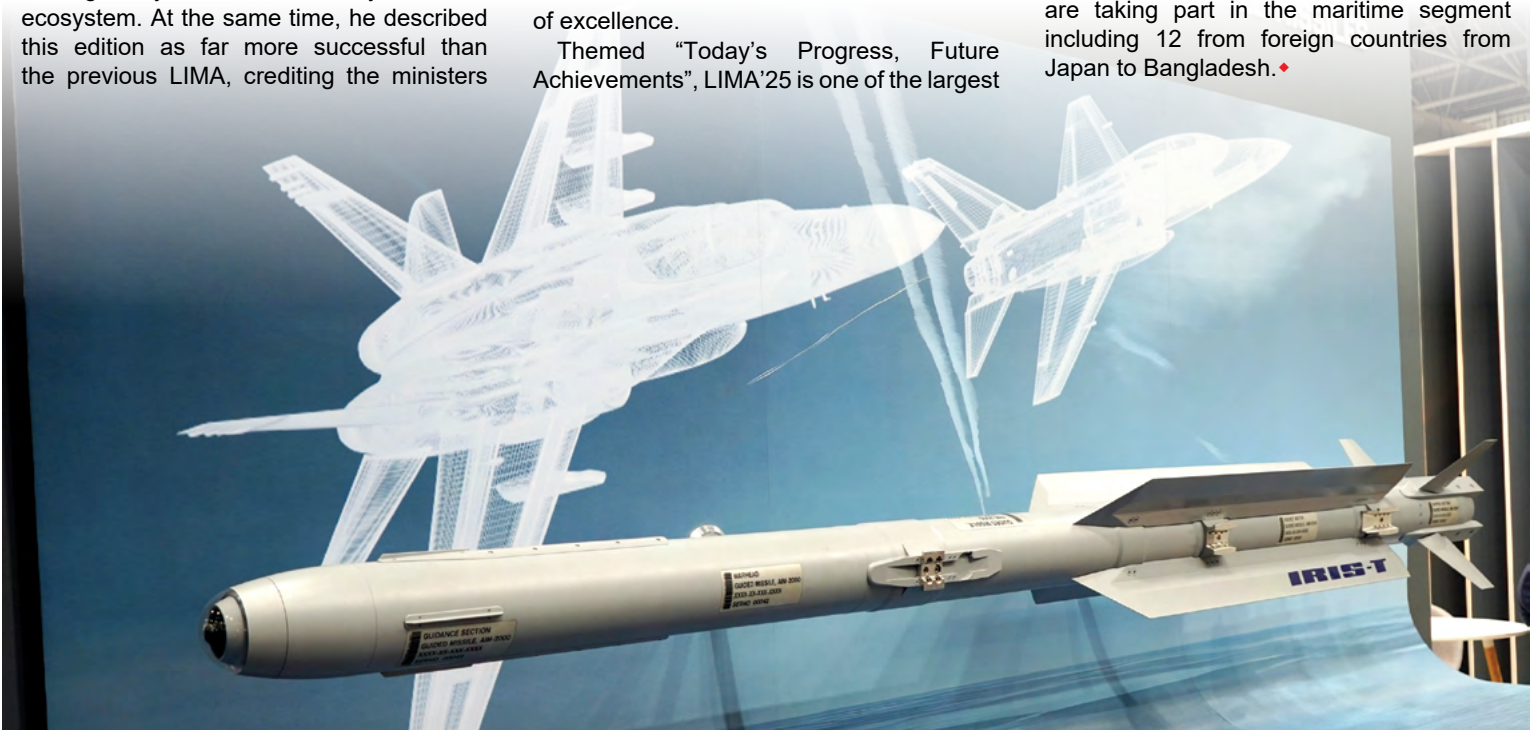
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Printed by **BD Super Sdn Bhd**, No. 18 Jalan Brunei Utara, Off Jalan Pudu, 55100 Kuala Lumpur. Tel: +603 2141 7495

exhibitions in the maritime and aerospace industry in Southeast Asia since it was first organised in 1991. The aerospace segment is held at the Mahsuri International Exhibition Centre (MIEC) while the maritime side is staged at Resorts World Langkawi.

Fifty-seven aircraft are taking part in the flying display with another 43 on static display on the apron. Besides aircraft from the US, Russia and the ASEAN region, the bulk of the aircraft are from Malaysia. Only two foreign air display teams are taking part this year – Jupiter, the Indonesian Air Force, and the Russian Knights. Thirty-one ships are taking part in the maritime segment including 12 from foreign countries from Japan to Bangladesh. ♦



Global Turbine Asia chairman, Global Exhibitions & Conferences Strategic Advisor

WE spent some time speaking **Nonee Ashirin Mohd Radzi** – chairman of Global Turbine Asia Sdn Bhd (GTA) who is also strategic advisor for the Global Group, which includes affiliate companies such as LIMA'25 official co-organiser Global Exhibitions & Conferences Sdn Bhd – right before the region's renowned aerospace and maritime expo. GTA is a leading independent provider of engine maintenance, repair and overhaul (MRO) services for both military and civil aviation across the Asia-Pacific region.

ADJ: What makes this year significant for your brand?

NA: We have participated in previous editions of LIMA, but this year's edition marks a particularly significant milestone. We are showcasing a more comprehensive exhibit, which highlights not only our core MRO services but also our forward looking initiatives. LIMA'25 also symbolises our renewed post-pandemic momentum, as we resume full-scale participation in international events and reaffirm our position as a high-value industry partner in Malaysia and beyond.

ADJ: Can you share what key highlights or technologies visitors can expect to see at your booth?

NA: At LIMA'25, visitors to our booth can look forward to an immersive showcase of our core competencies. This includes interactive presentations of our engine MRO capabilities, with a spotlight on the TP400-D6 and Makila 2A1 engines.

ADJ: What is the main objective of GTA's participation at LIMA'25 this year?

NA: Our primary objective at LIMA'25 is to showcase GTA's growing capabilities as a regional centre of excellence in MRO and integrated support services for military and commercial aviation. At the same time, we aim to explore global MRO opportunities that can expand our capabilities and expertise. This will ensure we continue to move toward the implementation of high-tech solutions in the application and systems of the MRO services we provide.

We seek to strengthen our existing relationships with key stakeholders in the defence and aerospace ecosystem while exploring new opportunities for

collaboration, innovation and growth. LIMA'25 offers a strategic platform for us to demonstrate our value proposition to both local and international stakeholders in this space.

ADJ: How does your presence at LIMA'25 align with your company's broader regional or global strategy?

NA: Our participation in LIMA aligns closely with our mission to become a strategic MRO hub in the Asia-Pacific region. We are actively pursuing growth in ASEAN markets, and LIMA presents a unique opportunity to engage with regional air forces, OEMs, and aerospace leaders. Furthermore, our presence in the event reinforces GTA's commitment to building local capabilities, facilitating technology transfer and promoting regional self-reliance in defence aviation.

As part of the broader Safran ecosystem, we aim to bridge global innovation with local operational excellence, ensuring that advanced technologies are accessible and adaptable to meet regional needs.

ADJ: How is GTA preparing to leverage LIMA'25 as a platform to connect with defence and aerospace stakeholders?

NA: We have a dedicated engagement strategy in place for LIMA'25, including pre-arranged B2B and B2G meetings and technical briefings. Our leadership and technical team will be available to engage with stakeholders including, Ministry officials, OEM partners and operators throughout the event.

GTA sees LIMA not just as an exhibition, but as a dialogue platform where we can exchange insights, identify shared priorities and co-develop solutions for the future of aviation maintenance and sustainment.

ADJ: What kind of engagement or interest are you anticipating from local and international visitors, and how are you positioning GTA to respond?

NA: We anticipate strong interest from regional air forces, maritime and space sectors, OEMs, as well as government-linked companies seeking reliable, proven MRO and support partners. With the current emphasis on operational readiness and supply chain sovereignty, GTA is well-positioned to provide locally based, OEM-certified support that meets international



standards.

Our booth team will include technical experts ready to address inquiries, offer consultations and explore collaborative opportunities. We are also prepared to engage in discussions on training, technology transfer, capability transfer, and localised support models.

ADJ: What outcomes are you aiming to achieve by the end of LIMA'25 in terms of partnerships, business leads or market visibility?

NA: By the end of LIMA'25, we aim to have...

- Strengthened existing partnerships, particularly with defence agencies and OEMs.
- Generated high-value leads for MRO support contracts and technical services.
- Increased visibility of our enhanced capabilities and future development roadmap.
- Reinforced GTA's position as a critical enabler of Malaysia's aerospace and defence ecosystem. ♦

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NASAMS: Medium-Range Air Defence



THE National Advanced Surface to Air Missile System (NASAMS) is a medium-range air defence system specifically developed to counter threats like cruise missiles, fighter aircraft, unmanned aerial vehicles and helicopters. It is combat-proven with very high efficiency, and 13 nations have selected the system to be a vital part of their national air defence structure.

A standard NASAMS Fire Unit (FU) comprises the Fire Distribution Centre (FDC), the Sentinel MPQ-64F1 air surveillance and tracking radar, the electro-optical sensor, and a number of missile launchers with a mix of short to medium range effectors. There are normally four NASAMS FUs in a battalion network.

Multiple radars and the associated FDCs are netted together via radio datalinks, creating a real time Single Integrated Air Picture (SIAP) – the radar and launchers can be deployed over a large area separated from the FDC. This distributed architecture makes the system very difficult for an enemy to suppress and destroy.

One NASAMS battalion with 12 launchers is able to conduct 72 simultaneous multiple engagements. Continuous operations (24/7) capability has been demonstrated since 2005 in the US National Capital Region and in Ukraine since 2022.

NASAMS is characterised as an evolving, modular and scalable open architecture, designed to incorporate new technologies to optimise upgrade and growth potential, and to provide the operator with a mission-oriented solution. From its inception, Kongsberg and Raytheon have sought to augment the core NASAMS system,

particularly in terms of the Kongsberg FDC and integration of various Raytheon effector options. NASAMS is now a true multi-missile system able to utilise AIM-120 AMRAAM, AIM-9X Block II and AMRAAM Extended Range missiles.

The FDC builds on flexibility, scalability, interoperability and an open software and hardware architecture to enable fully netted and distributed operations and ease the insertion of new technology and capabilities. It is much more than fire control – it is a true C2 node that also can handle fire control. A wide variety of customer selectable tactical datalinks (including, but not limited to Link 16, JRE, Link 11, Link 11B, LLAPI, ATDL1) and interface message protocols are already implemented into the FDC.

The FDC can operate as a C2 node at fire unit, battery, battalion operation centre and brigade operation centre and above, therefore controlling and coordinating fire between battalions and brigades. The FDC's role can also be expanded to take on the role as a mobile Control and Reporting Centre (CRC).

Improved situational awareness for the operators in the FDC has been emphasised over the years. Improvements have been performed in close cooperation with the NASAMS user community providing optimal decision support for the air defence operators. Key features of the user interface include an intuitive workflow, a “stack of cards” symbology – similar in principle to the icon-based HMI found in smartphones and tablets – at the top of the screen to enable rapid role swapping of functions onscreen and 3D graphics, designed to provide

additional information to the operator.

The NASAMS Tactical Network is a network architecture that can be adapted to customer specifications to integrate mobile and wireless technology and network communications. Optimised to deliver fire quality data from a sensor to an effector/launcher (including data uplink), the network is designed to tie different roles and missions together in one integrated non-hierarchical system.

The NASAMS Network called Battalion Net Data Link (BNDL) is the backbone structure ensuring that a common SIAP is shared between the nodes in the network.

Raytheon and Kongsberg have expanded the array of effectors available for use with the NASAMS' layered capability within one system architecture. Kongsberg has developed the multi-missile canister launcher for the NASAMS system that is designed to transport and deploy a mix of six ready-to-fire missiles inside protective canisters. The canister launcher is the direct interface between the missiles and the FDC, transmitting target and guidance data before and during the missile flight, with the canister launcher enabling the rapid launch of up to six missiles against single or multiple airborne targets.

NASAMS is designed to evolve and to integrate with, or utilise, future technology when it becomes available. This includes future active or passive radars, a wider range of effectors with longer or shorter range: counter-rocket, artillery and mortar (CRAM) capability and guns on the path to full-spectrum air defence operations. ♦

Strength through partnership

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Malaysia's 1st MPA To Arrive By End 2026

MALAYSIA is expected to receive its first Maritime Patrol Aircraft (MPA) from Italian aerospace, defence and security company Leonardo by the end of 2026, with the second aircraft scheduled for delivery three months later, says the Malaysian Minister of Defence Mohamed Khaled Nordin. He said they are part of a procurement deal worth nearly US\$209.5 million, finalised in 2023, to strengthen the country's defence and maritime surveillance capabilities.

"As a maritime nation, Malaysia must have assets like these aircraft to carry out patrols. They will be equipped with state-of-the-art systems. More importantly, they will be fitted with anti-submarine systems, enabling them to respond to related activities," he said on

May 12, during a working visit to Leonardo's facility in Turin, Italy, Malaysia's national news agency Bernama reported.

Also present were Malaysia's ambassador to Italy, San Marino and Kosovo Zahid Rastam, Royal Malaysian Air Force (TUDM) chief Jeneral Mohd Asghar Goriman Khan, Defence Ministry deputy secretary-general (policy) Mohd Yani Daud and Leonardo Aeronautics Division managing director Stefano Bortoli.

Mohamed Khaled said the aircraft, with its airframe built in Toulouse, France, will be outfitted with advanced systems, including anti-surface warfare and anti-submarine warfare capabilities before delivery to Malaysia. He described the procurement

as a strategic investment to enhance the Malaysian Armed Forces' (ATM) readiness in addressing regional security challenges, particularly in the South China Sea.

"We know the South China Sea presents its own unique challenges, with rising tensions and conflicts, so these acquisitions will greatly aid the country. As of now, project progress has exceeded 60% and remains on schedule. We are satisfied with the ongoing work carried out by Leonardo," he said.

The MPA procurement is part of TUDM's acquisition plan outlined under its Capability Development Plan 2055, which envisions the acquisition of six MPAs in phases. ♦



Avionics Systems Integration: A Leap Towards Sovereign Capability

THE Malaysian aerospace industry is migrating into high value, high technology, technically complex, systems integration domain, says G7 Aerospace. "The cockpit integration bench displayed at MIGHT Pavilion @LIMA'25 which attracted the attention of the Prime Minister of Malaysia showcased local industry's initiative to develop indigenous capability in system-level avionics integration.

G7 Aerospace Chief Executive Rosdi Mahmud said the company's investment in this capital intensive platform technology is a leap into higher-value upstream business following successful component-level avionics MRO contracts with the Royal Malaysian Air Force (RMAF) and the Army Air Wing. "Specifically, we are designing an advanced digital cockpit system for RMAF PC-7 Mk II trainer aircraft as a local solution to avionics obsolescence currently faced by the fleet. To mitigate risks, we are partnering with Aselsan of Türkiye to supply the avionics LRUs and accelerate software-hardware

integration via technology transfer."

Separately, said Rosdi, a Teaming Agreement is to be signed at LIMA'25, to renew G7 and Aselsan existing collaboration related to this programme. The avionics systems integration initiative spearheaded by G7 Aerospace indicates the industry's determination to move up the value chain as per MIGHT's Malaysian Aerospace Industry Blueprint 2030. "Based on the strategic nature of the technology and potential economic spin-off, PC-7 Mk II avionics upgrade initiative by G7 Aerospace and Aselsan may be adopted as National Strategic Project under the auspices of 'G-to-G Procurement for Defence Products MOU' signed last year by the Minister of Defence and Secretary of Defence Industries of Türkiye. Malaysia's avionics upgrade business is estimated to be worth more than RM1.5 billion within the next decade which will create more than 150 high income jobs for software/hardware engineers and technicians." ♦



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New Sea Viper Test-Firing Success In High-End Air Defence Capabilities

IN a demonstration of its high-end air defence capabilities, the Royal Navy on May 15 successfully intercepted a hard-maneuvring supersonic missile during exercise Formidable Shield 2025 held off the Scottish coast. The target, designed to emulate a supersonic missile travelling at over Mach 4, performed evasive corkscrew and weaving manoeuvres – a challenge intended to simulate the behaviour of advanced anti-ship weapons.

In a burst of fire and smoke, the Aster-30 missile launched by HMS Dragon, during this trial, accelerated to over Mach 4 and executed high-G manoeuvres beyond the endurance of any human pilot to strike the target at altitude. A special telemetry variant of the Aster missile was employed to collect valuable data to inform the evolution of the



RNs future air defence operations.

This further validates the performance of the Sea Viper system, which has always been held in high regard, against challenging targets. It is also an important step in the regeneration of HMS Dragon, a Type 45 destroyer, following a major refit and engine upgrades.

Exercise Formidable Shield is NATO's multinational live-fire integrated air and missile defence (IAMD) exercise – involves warships, aircraft, land-based forces and nearly 7,000 personnel from 11 NATO nations, working in concert to develop integrated responses to complex aerial threats, including drones, subsonic, supersonic and ballistic missiles. The exercise at the Andoya range in Norway and will conclude at the Hebrides range in Scotland on May 31.

It marks the first time the Royal Navy has faced down this kind of target – one that is significantly more challenging as it flies faster and carries out corkscrew and weave manoeuvres. "The successful Sea Viper firing as part of Formidable Shield 25 is a huge moment for HMS Dragon," HMS Dragon's Commanding Officer, Commander Iain Giffin, said.

"Not only does it prove that Dragon's world-leading air defence capability functions as it should following an extensive maintenance period, but it also proves our ability to integrate and operate alongside NATO allies and partners. Training alongside ships, aircraft and land forces from 11 nations in this complex, multi-domain exercise ensures that we maintain our fighting edge against evolving Hi and Low-tech threats."

Sea Viper is the combination of the Sampson radar system – the distinctive spinning spiked ball on top of a Type 45 destroyer's main mast – and the Aster missile system which sits in a silo on the ship's forecastle. ♦



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Naval Group, Kongsberg Sign Partnership Agreement

NAVAL Group and Kongsberg on May 16 signed a comprehensive partnership agreement, reinforcing both companies' positions as global leaders in the defence sector. The agreement revolves around three main areas: development, production and shared marketing in the international market. The discussions between the two leading defence companies have been ongoing for almost two years, where they both have valued the complementary history, knowledge, culture, service and technology they possess.

The Partnership Agreement will entail 10 subtopics, such as maintenance of frigates – with a full life support – Vanguard System, Drones and Man Unmanned Teaming (MUM-T), Counter Drone Solutions, Strike missiles, Naval Cyber, Combat System, Naval Collaborative Combat and more. The agreement is expected to secure and create hundreds of jobs in France and in Norway, strengthening both companies' regarding innovation, industry and business development worldwide for years to come.

The partnership allows Naval Group and Kongsberg to share expertise on cutting edge technologies, innovate through defence domains driven by new threats and new operational capabilities. The agreement will generate new market opportunities benefiting Kongsberg and Norwegian industrial partners and enhance an already long-term strategic partnership between



France and Norway.

For Naval Group, the partnership agreement makes Kongsberg one of their closest allies. "We are very honoured to sign this major agreement with Kongsberg. This very substantial partnership will allow both of us to share knowledge in defence and naval combat, in a very extensive way," said Naval Group chairman and CEO Pierre Eric Pommellet.

"We look forward to exchanging our knowledge and skills with Naval Group. This partnership reflects two leading companies

joining forces to create the best products within the defence industry in the future. The agreement signals a shared commitment to national security, NATO cooperation and an integrated European defence," said Kongsberg president and CEO Geir Haoy.

The Partnership Agreement also reflects Naval Group's intent to become a key supplier to the Royal Norwegian Navy. As such, the outcomes of this partnership could support future requirements and long-term national priorities. ♦

Aselsan, Sapura To Strengthen Malaysia's Defence Tech Capabilities

TURKIYE's Aselsan AS signed a memorandum of agreement (MoA) with Malaysia's Sapura Secured Technologies recently, on strategic cooperation in communication systems to further strengthen Malaysia's technological capabilities in the defence sector.

Sapura said the collaboration aims to advance Malaysia's communications and Command & Control (C2) technology, marking a significant step towards enhancing the nation's defence infrastructure.

"This alliance comes at a crucial time as both countries seek to diversify and modernise their military capabilities while fostering innovation in defence technology," it said, adding that the collaboration will reinforce Malaysia's technological sovereignty in critical areas, including Software-Defined Radio (SDR) technology, Artificial Intelligence (AI), and

cybersecurity.

"A long-term capability development programme, focusing on technology transfer (ToT), is also a key component in strengthening Malaysia's defence and public sectors," the company added.

The agreement for Strategic Cooperation in SDR Communication Systems and Network-Based Command & Control Technology was signed by Aselsan CEO Ahmet Akyol and Sapura Group president and CEO Shahril Shamsuddin, during the Malaysia-Turkiye Business Forum at the Putrajaya International Convention Centre (PICC) recently.

Sapura added that Malaysia and Turkiye recognise the importance of strengthening their defence industries to remain competitive in an increasingly complex and fast-evolving global security landscape.

"This partnership marks a significant step forward in the defence sector, with

both countries boasting rich histories of military expertise and technological advancements. By leveraging Turkiye's expertise in defence manufacturing and Malaysia's strategic position in Southeast Asia – a region with growing security concerns and geopolitical importance – this collaboration is set to drive meaningful progress in the industry," it said.

The Note Exchange for Strategic Cooperation in Communication Systems between Aselsan and Sapura was also signed recently by Turkish Defence Industries Agency (SSB) president Prof Dr Haluk Gorgun and Malaysia's National Security Council director-general Raja Nushirwan Zainal Abidin. The signing was witnessed by Turkish President Recep Tayyip Erdogan and Malaysia's Prime Minister Anwar Ibrahim in Kuala Lumpur. ♦

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UAC Deliver Another SU-35S Batch To Russian Defence Ministry

THE United Aircraft Corporation (UAC – part of the state-owned Rostec) has supplied another batch of Su-35S fighter jets to the Russian Defense Ministry, the company's press service reported. "The United Aircraft Corporation has delivered another batch of new multifunctional Su-35S fighter jets to the Russian Defense Ministry. The 4++ generation aircraft have run the gamut of tests by the manufacturer, have been tested in various working modes, and have performed a flight to the base aerodrome," the report said.

UAC director-general Vadim Badekha stressed that the corporation has delivered the jets on schedule, as production has met its targets, "being aware of the importance of implementing the state defense order in full and on time."

"Concurrently, work is underway to boost production capacity and



commission new industrial infrastructure to support future plans to ensure the country's defense capability. New batches of the Su-35S, Su-34, and Su-57 are being produced," he added. ♦

STM Highlight Modern Naval Platforms, UAV Technologies



TURKISH defense industry company STM, at booth C012, is showcasing its modern naval platforms and combat-proven tactical mini UAV systems; it is also unveiling a new naval platform design for the first time at this exhibition. Having played an important role in Türkiye's recent breakthrough in the defense industry, STM offers critical solutions in such areas as naval platforms, tactical mini UAV systems and command and control. STM, a subsidiary of the Presidency of the Republic of Türkiye, Secretariat of Defence Industries, brings its experience, which has been gained through the company's efforts to meet Türkiye's needs, to friendly and allied nations through cooperation and technology transfer.

STM's showcase includes models of six "distinguished" naval projects, including the

Malaysian Corvette (LMS Batch-2), marking Türkiye's first and only corvette export to the Asia-Pacific region; and Türkiye's national frigate project I-Class Frigate (TCG ISTANBUL), Portuguese Navy - Auxiliary Oiler Replenisher and Logistics Ship, the STM MPAC Multi Purpose Attack Craft, and the STM500 Submarine.

TCG Buyukada Corvette In Malaysia

The TCG Buyukada (F-512) corvette, the second vessel of the MILGEM Project delivered to the Turkish Navy, in which STM played a critical role, is in Malaysia as a participant of LIMA'25.

Combat-Proven Tactical Mini UAV Systems

STM's KARGU platform – Türkiye's first national attack UAV, is on show. Since its

launch, the KARGU, which can be equipped with anti-personnel and armour-piercing warheads, has to date been exported to more than 10 countries on three continents. STM is also displaying its TOGAN Surveillance UAV, which has now entered the inventory of the Turkish Armed Forces and is being actively used in the fight against terrorism, as well as achieving remarkable export figures, and its BOYGA ammunition-drop UAV, at LIMA-2025.

Debut Of New Naval Platform

STM General Manager Ozgür Guleryuz emphasised the strong defence and security cooperation between Türkiye and Malaysia, stating: "At STM, we are proud to have marked Türkiye's first corvette export to the Asia-Pacific region by developing three corvettes based on the Ada-Class design for the Royal Malaysian Navy. The construction of these corvettes began in Istanbul last year and continues successfully. In addition to our commitment to the Turkish Navy, we aim to remain a reliable partner for navies ranging from Portugal and Ukraine to Malaysia and Pakistan.

"Guided by our vision of introducing innovative and flexible defense solutions to the world, we are honored to participate in the LIMA 2025 fair. At this event, we are showcasing a groundbreaking, multi-mission naval platform design for the first time. Furthermore, through the strategic partnerships we plan to establish, we aim to increase our collaboration in the Southeast Asian region. With our expanding global presence, we are determined to strengthen strategic cooperation opportunities in Malaysia and neighboring countries." ♦

New RTN Hydrographic Vessel Launched

THE Royal Thai Navy (RTN) has launched a new hydrographic operations vessel to replace HTMS Suriya, which was decommissioned on May 19. RTN Commander Admiral Jirapon Wongwit presided over the vessel launching ceremony, while Navy Wives Association president Rear Admiral Jerawat Krisanaphan Wongwit performed the traditional ship-launching ritual. The ceremony took place at the shipyard of Asian Marine Services

Public Company Limited, located in the Samut Prakan Province in Central Thailand.

The RTN's Hydrographic Vessel Procurement Project involves the acquisition of a new hydrographic operations vessel to replace the retiring HTMS Suriya. The new ship will enable the RTN to maintain its capability to inspect and repair maritime navigational aids within Thai territorial waters. It will also support maritime disaster relief operations, provide logistical supplies

to coastal and naval units, and carry out other tasks as needed.

The new vessel was designed by Seatech Solutions International (S) Pte Ltd of Singapore. It has an overall length of 60 meters, a maximum beam of 13.3 meters, and a draft of 3.05 meters. The ship has a maximum continuous speed of 13.1 knots, an operational range of 2,400 nautical miles, and a crew complement of 67 personnel. ♦

Malaysia-Germany Bilateral Defence Ties Boost

MALAYSIA and Germany are committed to continuing to strengthen bilateral defence ties through various strategic initiatives, including cooperation agreements, military training, and capacity building in the field of security and defence technology. Defence Minister Mohamed Khaled Nordin said the matter was among those discussed during his meeting with German Defence Minister Boris Pistorius in conjunction with the United Nations (UN) Peacekeeping Ministerial 2025 Forum held in Berlin recently.

"Germany and Malaysia enjoy good relations in the field of defence, and we deeply value the cooperation that has been fostered over the years. Whenever the opportunity arises, we make it a point to meet and exchange views on the current geopolitical and security landscape," he said.

He also welcomed ASEAN's decision to

accept Germany as an observer country in the ASEAN Defence Ministers' Meeting (ADMM), while hoping that the country would play a meaningful role in the regional security platform. "Malaysia is grateful for Germany's willingness to join the ADMM as an observer and is confident that this participation will contribute to the peace and stability of the Southeast Asian region," he said.

At the meeting, Mohamed Khaled said Germany also expressed its intention to sign a Letter of Intent with Malaysia to facilitate and expedite all forms of defence cooperation between the two countries.

He also expressed appreciation for Malaysia's participation in the 'Enable and Enhance' programme, which is an initiative by Germany to help build the defence capabilities of partner countries. "We greatly appreciate the contributions under this

programme and hope that it will continue, especially by the newly formed German government," he said.

Mohamed Khaled said Malaysia hopes that the training opportunities for its Royal Malaysian Air Force (RMAF) pilots in the A400M simulator in Germany can continue, given that the aircraft is also used by the country. "I also suggest that Germany consider opening up training opportunities for Malaysian military personnel in technology-related fields such as AI and cybersecurity, which are increasingly important in today's defence landscape," he said.

He added that the meeting reflected the determination of both countries in building more sustainable defence cooperation, in line with increasingly challenging global security needs. ♦



BAE Systems To Supply 30 ACV-30mm To USMC



BAE Systems has been awarded a US\$188.5 million full-rate production (FRP) contract from the US Marine Corps for 30 ACV-30mm vehicles (pix), which includes fielding support, spares and test equipment.

This is the first award as part of the FRP Lot 5/6 contract. The ACV-30 includes an integrated medium calibre Remote Turret System which the US government

is procuring separately and integrating at Naval Information Warfare Integration Center Atlantic (in South Carolina, US). The ACV-30 enables transport of troops, mission essential equipment and other payloads, while providing the lethality and protection Marines need. The lightweight turret system also ensures platform mobility is preserved.

"The ACV is tested and proven to be

incredibly adaptable – it not only swims, but it's also optimised for ship-to-shore, island-hopping and advanced land operations," said BAE Systems vice-president of amphibious programmes Rebecca McGrane. "With enhanced direct-fire lethality via the 30mm fully stabilised weapon system, the ACV-30 helps to ensure Marines are ready for any mission, land or sea."

In addition, BAE Systems is currently under contract for the ACV-Personnel (ACV-P) and ACV-Command (ACV-C). The ACV-P variant has the ability to transport 13 combat-loaded Marines plus three crew, while the ACV-C variant provides multiple workstations for Marines to maintain and manage situational awareness in the battlespace.

The company is also building three ACV-Recovery (ACV-R) variant Production Representative Test vehicles which will provide field maintenance, recovery and repair capabilities to the Assault Amphibian companies in support of the Marine division. Work for the ACV-30mm will take place in York in Pennsylvania, Johnstown (Pennsylvania) and Charleston (South Carolina) through the third quarter of 2026.

RTX's Collins Aerospace Enhances Capabilities To Speed Marine Corps Decision-Making In Battle

COLLINS Aerospace, an RTX business, successfully demonstrated new technology that helps the military gather and use information from a wider range of sources at Project Convergence Capstone 5, a large-scale military exercise. By integrating data from multiple sources into one place, Collins delivered real-time situational awareness to Marines during the exercise. Collins has been working with the Marine Corps Warfighting Lab (MCWL) on a multi-year plan to develop and test these advanced capabilities in exercises with active military units.

Collins combined data from a range of sources, including military and commercial sensors, to give Marines a clearer and more complete view of the battlefield. This information was sent to the Landing Force Operations Center – a command center used for coordinating amphibious landings.

"Battlefield operations can be extremely dynamic, requiring rapid adaptation and flexibility," said Collins Aerospace Connected Battlespace & Emerging Capabilities vice-

president and general manager Elaine Bitonti. "At PCC5, Collins integrated ship and airborne platforms to provide Marine Corps commanders with the clear, secure data needed to make decisions quickly."

By combining information from both government and commercial sensors, Collins Aerospace helps military leaders make faster decisions while making it harder for adversaries to track and target US forces. This improves the safety and effectiveness of military operations.

Collins participates in technology demonstrations to advance readiness for fielding new solutions to collect, aggregate, process, and share data to help joint force commanders act quickly and decisively with weapons or force manoeuvres. Developing secure and resilient communications across land, air, and sea domains ensures mission-critical information reaches those who need it most, when they need it.

About Collins Aerospace

Collins Aerospace, an RTX business,

is a leader in integrated and intelligent solutions for the global aerospace and defense industry. Our 80,000 employees are dedicated to delivering future-focused technologies to advance sustainable and connected aviation, passenger safety and comfort, mission success, space exploration, and more.

About RTX

RTX is the world's largest aerospace and defense company. With more than 185,000 global employees, we push the limits of technology and science to redefine how we connect and protect our world. Through industry-leading businesses – Collins Aerospace, Pratt & Whitney, and Raytheon – we are advancing aviation, engineering integrated defense systems for operational success, and developing next-generation technology solutions and manufacturing to help global customers address their most critical challenges. The company, with 2024 sales of more than \$80 billion, is headquartered in Arlington, Virginia. ♦

Cost-Effective Torpedo Upgrade Programmes By Roketsan



the initial cost of US\$840,000 per unit in 1994. By opting for domestically produced warheads, Türkiye has saved millions of dollars, while also enhancing its military self-sufficiency.

Ongoing Deliveries of Akya Torpedoes

Meanwhile, Roketsan has continued its deliveries of the domestic Akya heavy torpedo. This locally developed torpedo is a key component of Türkiye's modern underwater warfare strategy. As of May 2024, the Turkish Navy has carried out 54 test shots with the Akya torpedo.

The Akya torpedo, which has a range of over 50 kilometers and a speed exceeding 45 knots, is designed to target both submarines and surface vessels. It is equipped with advanced guidance systems, including active/passive sonar and acoustic countermeasure capabilities, making it a formidable weapon in the Turkish Navy's arsenal.

The integration of the Akya torpedo into existing Turkish submarine platforms has been made possible with the introduction of the Portable Fire Control Unit, allowing for easy adaptation to foreign submarine management systems. Currently, all Gur and Preveze-class submarines are equipped to launch the Akya torpedo.

In December 2023, reports say a successful test firing of the Akya torpedo was carried out from the TCG Preveze (S-353) submarine, hitting the target, the G/M Gazal vessel, from a distance of approximately about 11km with direct impact.

THE Turkish Navy has successfully upgraded its fleet of British-made Tigerfish torpedoes, replacing their ageing warheads with domestically produced ones developed by Roketsan. Reports on May 6 said this significant upgrade not only extends the lifespan of the torpedoes but also demonstrates Türkiye's growing defence capabilities in modernising military equipment with indigenous technologies.

The Tigerfish torpedoes were originally acquired by the Turkish Navy in the early 1990s, with each torpedo costing approximately US\$840,000, as per reports. However, as the warheads reached the end of their operational life, a collaboration between Roketsan and the Turkish Navy's

command led to the development of new, locally produced warheads. These updated warheads, now integrated into the torpedoes, significantly extend their operational lifespan.

The upgraded Tigerfish torpedoes are now back in the Turkish Navy's inventory, ready to be deployed on submarine platforms. With modern warheads, the torpedoes are poised to serve in a range of naval operations, bolstering Türkiye's underwater warfare capabilities. The decision to replace the warheads with locally produced technology has resulted in significant cost savings for the Turkish Navy. New Tigerfish torpedoes now cost approximately US\$3 million to US\$3.5m per unit, a sharp increase from



Syncrolift – The Innovative Shiplift Market Leader

SYNCROLIFT AS specialises in designing and building turn-key solutions for docking and undocking ships in a safest and most efficient manner. Headquartered in Vestby, Norway, Syncrolift is part of the Norwegian Nekkro Technology Group (listed on the Oslo Stock Exchange), comprising a number of other innovative technology companies focused on developing disruptive technologies for offshore, windfarms and fish farms markets.

With Syncrolift shiplifts and transfer systems, multiple vessels can be berthed ashore simultaneously for easy access, efficient repair and maintenance works in an environmentally safe work area and away from the waterside. Syncrolift continuously innovates docking technologies to make docking safer, faster and more cost efficient.

With more than 280 Syncrolift systems installed worldwide, Syncrolift AS is the undisputed market leader, not only on newly build facilities, but also by providing maintenance services, upgrade solutions and modernisation of drive and control on existing Syncrolifts, significantly improving safety, increasing nominal lifting capacities and extending the lifespan of installations up to 50 years or more.

History

The first Syncrolift, installed in 1957 by a small family firm PECO in Miami, Florida (USA). PECO was purchased by Northern Engineering Industries (NEI) back in 1979 and renamed as NEI Syncrolift Inc in 1986. In 1989, NEI merged with Rolls-Royce plc and the Syncrolift division became part of Rolls-Royce North America (RRNA) which was later renamed as Syncrolift Inc. In 2015, RRNA sold and transferred all its Syncrolift assets (including trademark, IP, patents, project design data etc.) to Syncrolift AS. Today, Syncrolift AS continues to be the OEM for every one of the 283 Syncrolifts which have been contracted since 1957 and successfully provides services (spares, inspections, maintenance support, upgrades and training) to most of the Syncrolifts installed worldwide.

Note: US-based company Pearlson Shiplift Corporation (PSC, founded in 2008) has no business relationship with the old Pearlson Engineering Company (PECO), neither with Rolls-Royce Syncrolift, which are nowadays both part of Syncrolift assets.

References

Syncrolift provides turnkey solutions for dry docking of mega-yachts, commercial and naval vessels up to and in excess of 30,000 tons. Syncrolift is today the only shiplift supplier with experience in design and supply of shiplift and transfer solutions

for handling submarines (various types, including nuclear-powered submarines).

Apart from five recently newly built submarine lifts (Brazil, Peru, Malaysia, Pakistan and South Korea), Syncrolift is currently executing new submarine lift contracts in India and Indonesia (PT PAL). Syncrolift has also designed and delivered the new electro-hydraulic fluid bed rail-based bogie transfer system for two US-based submarine builders for the safe transfer of the US Navy's nuclear submarines.

Syncrolift is the only company having performed the nuclear safety case for handling nuclear submarines in compliance with the UK's Royal Navy standards for Barrows and Faslane nuclear submarine facilities. Recently, Syncrolift has also upgraded the submarine lift at Changi Naval Base (Singapore), which shall handle the new four TKMS built Invincible-class submarines.

New Syncrolifts for PT PAL Indonesia, ASMAR Talcahuano, Norwegian Navy

Also PT PAL (Indonesia), ASMAR (Chile) and Norwegian Navy recently recognised Syncrolift's technical excellence and experience on handling naval vessels and submarines by awarding Syncrolift with the contracts for designing and building their shiplift and transfer systems.

Safety

Syncrolift is continuously focusing on further improving safety, efficiency and reliability of its products. By applying integrated (hybrid) shiplift platforms in combination with modern drive and control technology, Syncrolift has managed to maintain a zero-incident track record unlike other shiplifts operating with articulated platforms. A wire rope breaking at a traditional shiplift fitted with an articulated platform may lead to a catastrophic loss of platform and damaging the vessel being lifted. Today more and more shipyards and naval bases decide to modernise their existing Syncrolift with an upgrade, significantly improving safety and reliability.

Environmental

The latest Syncrolift platform designs provide environmentally friendly

features which allow shipyards to quickly execute hull cleaning, perform maintenance activities or emergency repair works while vessels remain on a locked platform. Even contaminated wastewater is collected by the platform drainage system for pumping across to a suitable wastewater tank.

FastDocking Solutions

In addition to the safe and efficient shiplift and transfer systems, Syncrolift offer FastDocking tools for shiplifts, drydocks and floating docks, such as Propeller Pullers, Thruster Handlers, Side, Bilge & Tail Support Arms, Flex Pads, (automated) Vessel Inhaul & Positioning Systems, Auto Block Guiding Systems, which further reduce man-hours and increase capacity and safety during docking operations.

Inhaul and positioning systems enable safe handling of vessels into and away from the dry-docking area. Auto block guiding systems limit the risk of misalignment of dock blocks in relation to the blocking arrangement of the vessel.

"With a current market share of more than 65%, we see our aggressive approach to improving and innovating our systems has worked out well," says Syncrolift managing director Rolf-Atle Tomassen.

Global Service Support, Syncrolift Academy, Syncrolift Simulation & Innovation Lab

"Syncrolift AS operates globally with service offices in Norway, Dubai, Miami, Singapore, Mumbai and Perth. Syncrolift customers can count on 24/7 fast local responses by its regional service engineers or remote online by our headquarters in Vestby.

"Syncrolift has developed on site and in-house Lloyds certified training programmes for dockmasters, operators and maintenance crew. In its new Syncrolift Simulation & Innovation Lab, dockmasters and operators are trained on realistic docking operations and unforeseen situations and customers are demonstrated the latest Syncrolift innovations."

* Syncrolift will be at the International Maritime Defence Exhibition & Conference (IMDEX) Asia 2025 – May 6-8, 2025, at the Changi Exhibition Centre in Singapore, booth T26. ♦♦

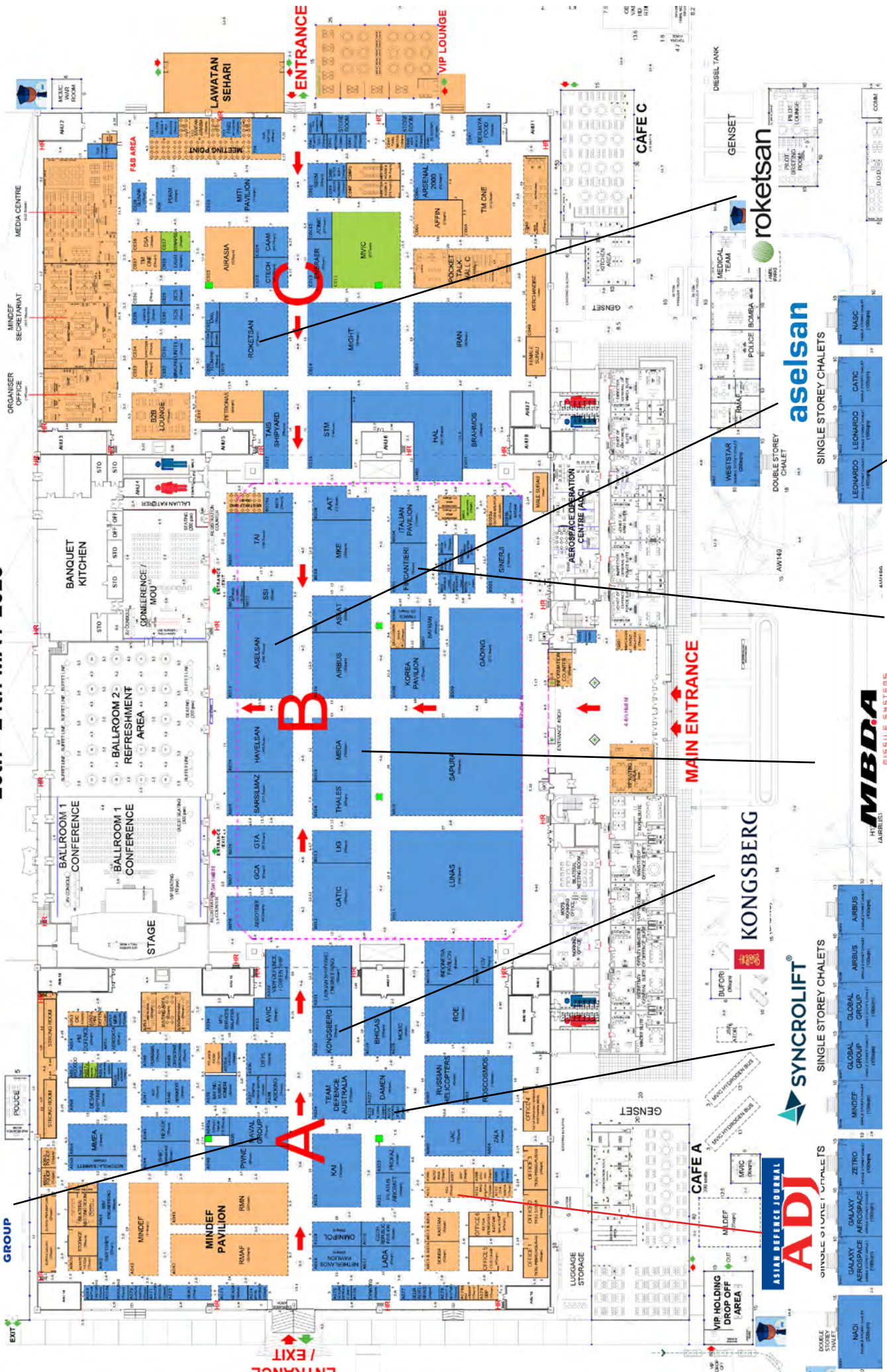


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