

PUBLIC SAFETY AND SECURITY

CATALOGUE



ABOUT ST ENGINEERING

50 +

Years of
Experience

100 +

Countries

27,000 +

Employees

At ST Engineering, we apply our technology and innovation to solve real-world problems and improve lives. Our dedication to excellence and our strong track record have earned us a distinctive reputation for quality and trust as a global technology, defence and engineering group.

Our diverse portfolio of businesses spans the aerospace, smart city, digital solutions, defence and public security segments, and our global network of subsidiaries and associated companies spans Asia, Europe, the Middle East and the U.S.

We succeed because of our ability to deliver what our partners and customers need. Across the Group, we have more than 27,000 employees with diverse backgrounds and skills, with engineering and technical talents making up more than two-thirds of our workforce, all dedicated to solving real-world problems for our customers.

We meet every challenge with an effective and competitive response so that our customers in more than 100 countries are better prepared, better protected, and better connected for a more sustainable future.



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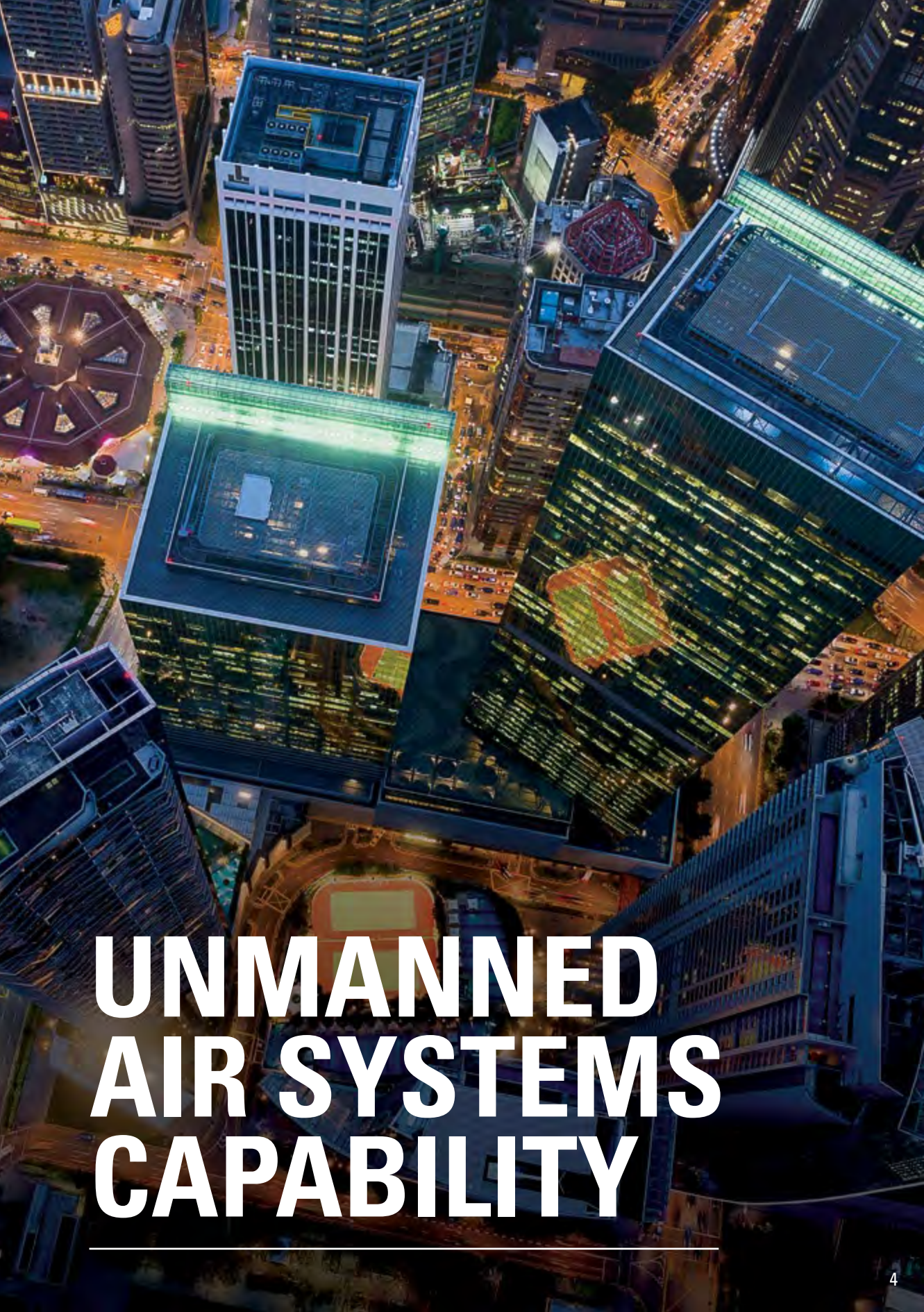
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UNMANNED AIR SYSTEMS CAPABILITY

Aerial Advantage in Every Operation

Enhancing visibility, coverage, and coordination from the skies and beyond

Our unmanned air and space solutions deliver air mobility, data, and eyes in the sky to strengthen safety and response. DroNet provides automated aerial surveillance for rapid incident detection and crowd monitoring, while Veloce offers swift situational assessment in complex terrains. Backed by resilient satellite communications and geo-intelligence, we ensure seamless connectivity and informed decision-making for public safety, disaster coordination, and environmental monitoring - anywhere, anytime.

DroNet

Scalable UAV Agnostic Operating Platform

DroNet is the first in Singapore to be approved for Beyond Visual Line of Sight (BVLOS) flights, as a UAV-agnostic operating platform capable of integrating autonomous and multi-function Unmanned Air Systems (UAS) networks and artificial intelligence to reduce operator workload.

- Full-package solutions
- BVLOS
- Safe
- Quick turnaround
- Smart analytics
- Drone-agnostic

**DrN-35DH**

DroPort

Remote Charging & Docking Station

The DroPort is a secured docking station (drone-in-a-box concept) for Unmanned Aircraft (UAs) that allows permanent on-site deployment of DroNet at remote places. The DroPort enables automatic launch and recovery of the DrN-35DH series UAs.

- **UAV Storage:** 4G-enabled all-weather station for safe, automated drone storage
- **Battery Swap:** Automatic battery replacement between flights, with no on-site operator needed
- **Payload Swap:** Automatic payload swapping enables quick adaptability to different mission needs
- **Operation Modes:** Centimetre-precise, all-weather landing, with range extension via DroPort hopping



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DroHub

Centralised Command & Control Hub

DroHub is an integrated and scalable command & control hub designed to manage multiple Unmanned Aerial Vehicles (UAVs) simultaneously. With smart analytics capabilities, it allows users to track concurrent missions in real-time.

- One-stop turnkey UAV solution
- Autonomous and multi-role
- Advanced data video analytics capabilities
- Multiple UAV Control
- Ease of mission planning
- UAV agnostic



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DroConnect

Real-time Data Distribution & Video Analytics

DroConnect is a state-of-the-art web-based portal that offers real-time UAV status updates, live video streaming, and advanced data analytics powered by Artificial Intelligence.

- Automatic human detection, identification and tracking
- Automated object (vehicle and weapon) detection, identification and tracking
- Real-time alerts with accurate geospatial information posted to operators
- Powerline and solar panel defects detection and classification
- Reservoir monitoring

**DrN-25****DrN-20**

DrN-Series UAV

Multicopter and Fixed-Wing Vertical Take-off & Landing (VTOL) Aircraft Platform

The DrN-series UAVs are autonomous VTOL aircraft designed for Beyond Visual Line of Sight (BVLOS) operations, meeting global safety standards. They are equipped with safety features for redundancy, automatic fail-safes, collision avoidance, and meet international regulatory standards. DrN-series UAVs support both day and night missions, and sensors can be configured for various applications.

- Purpose-built for inspection, public security, and delivery missions



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**DrN-40****DrN-600**

ARES

ARES is a micro-UAV that enhances situational awareness with real-time intelligence. Enhanced agility built for complex enclosed-environment operations, providing rapid insights for improved decision-making in dynamic environments.

- Intuitive control, rapid deployment
- Compact - Functional in hard-to-reach areas
- Low light visibility



Veloce

Long-Endurance Vertical Take-off & Landing (VTOL) Surveillance for Challenging Land and Maritime Missions

The fixed-wing VTOL UAV is built for space-constrained land and maritime operations, with automated landing in high sea states. It offers up to 14 hours of endurance, a 100 km range, and speeds of up to 70 knots. Equipped with EO/IR sensors and a range finder, it delivers high-resolution surveillance. The Veloce UAS family includes the Veloce 15 for tactical missions and the Veloce 60 for extended land and maritime operations.

- Launch and recover system not required
- High landing and takeoff relative wind envelope (25 knots)
- Long datalink range (100 km)



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Veloce 15

Built for tactical operations

The Veloce 15 is designed for tactical ISR missions. It features a sleek fixed-wing airframe with four vertical-lift rotors, enabling runway-independent operation and allowing rapid deployment in challenging environments, such as jungle clearings, rooftops or confined forward operating bases.

- True VTOL flexibility
- Operator-friendly & mission-proven
- Real-time tactical ISR
- Electric engine

Veloce 60

Engineered for long-endurance ISR missions

The Veloce 60 is purpose-built for long-range maritime and land-based ISR missions. Its hybrid propulsion system combines electric lift rotors with a petrol engine for efficient forward flight. Designed to minimise launch infrastructure and maximise flexibility, it can be rapidly deployed from naval decks or dense forested sites, enabling persistent ISR, wide-area surveillance, search-and-rescue and security missions.

- Naval-ready operations
- Long-endurance, wide coverage
- Seamless integration with Naval Ops

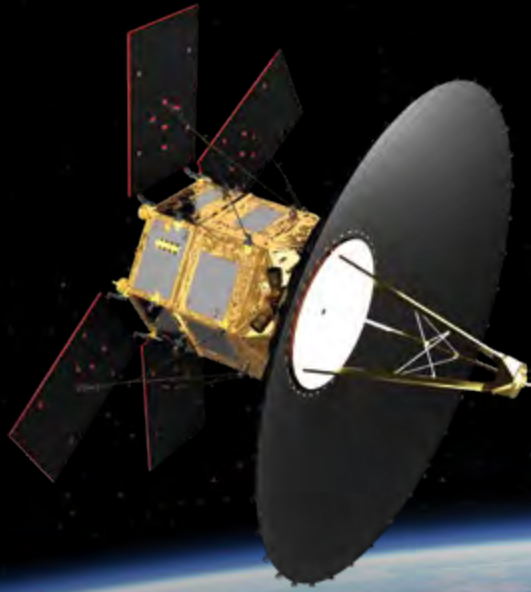


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Our satellite solutions play a crucial role in transforming business, advancing economies, and enabling tomorrow's smart cities.

As a leading satellite solutions provider, we enable new possibilities for businesses through our extensive suite of products and services spanning design, manufacturing, integration, launch management services and ground operations, as well as imagery and geospatial analytics solutions.

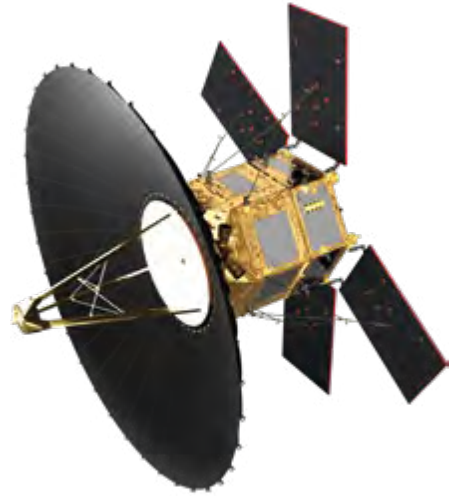


SPACE & SATCOM CAPABILITY

Satellite-Data-As-A-Service

Our Near Equatorial Orbit (NEqO) satellite constellation delivers high-performance Earth observation using advanced optical and Synthetic Aperture Radar (SAR) imaging.

- Covers critical equatorial regions, including shipping routes, disaster-prone areas, and forest fire hotspots
- High-revisit, high-resolution imaging enabling actionable intelligence for defence and government missions across maritime, agriculture, and sustainability



Power Control & Distribution Unit

It controls the power flow from the Solar Array and the battery and distributes that power to the whole satellite.

- Provides efficient power regulation and management to 2 kW of solar power
- Outputs up to 4 kW of electrical power with protection to bus, payload and all heaters
- Modular and scalable design suits all missions in LEO



Spacecraft On-Board Computer

A high-performance, radiation-tolerant computing system designed for reliable control and data management in Low Earth Orbit (LEO) satellite missions.

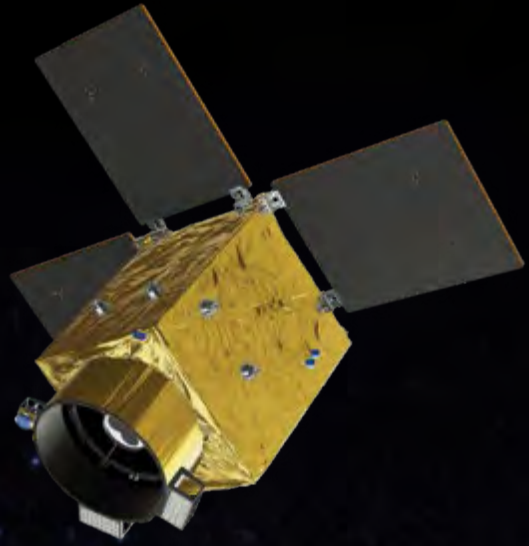
- Dual-core LEON3-FT processor for high-performance, space-grade processing
- Radiation-tolerant design ensures reliable operation in space
- Integrated FDIR system for fault detection, isolation, and recovery
- High-availability architecture for mission-critical LEO satellite operations



POLARIS Satellite

The POLARIS satellite is planned for launch in 2027 and offers high-end capabilities and performance for Earth observation missions.

- True-colour imagery at very high-resolution (50 cm)
- Full motion video (FMV) at 28 frames per second
- Advanced SWIR imaging technology with 1.5 m resolution
- Intersatellite link to support dynamic, in-orbit tasking
- Assured satellite passes over national territory, enabling sovereign access to commercial space assets



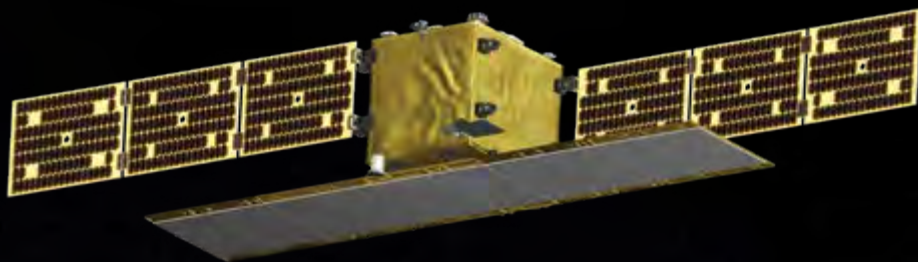
NeuSAR-2 Satellite

NeuSAR-2 is a Synthetic Aperture Radar (SAR) satellite with a reflector-based architecture that sets a new standard in radar imaging performance. Its advanced full polarisation design ensures precise and consistent imaging, even in challenging conditions.

Advanced Radar Capabilities:

- High-resolution imagery: 0.6 m or better
- X-band with full polarisation
- Compact design: Mass $\leq$ 280 kg
- Wide look angle: 20° to 45°





PERSEUS Satellite

PERSEUS SAR satellite is a cutting-edge space-based remote sensing platform designed to provide high-resolution, all-weather Earth observation data.

Leveraging advanced radar technology, this satellite offers unparalleled capabilities for a wide range of applications, including disaster management, environmental monitoring, and scientific research.

Advanced Radar Capabilities:

- X-band with single polarisation, offering a bandwidth up to 1200 MHz
- Wide swath: >4 km (spotlight) >20 km (stripmap)
- High-power SAR: Peak power of 4 kW



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KnOcean

Developed to strengthen defence and safeguard the marine environment, KnOcean delivers near real-time situational awareness, enabling identification of suspicious vessels and continuous monitoring of high-risk maritime zones to detect early indicators of suspicious activities.

- Gain reliable maritime intelligence from vessel tracking, satellite imagery, and signals
- Automatically identify suspicious behaviour by cross-checking multiple data sources to mitigate risks early
- Monitor port and coastal changes to support investigations, compliance, and informed decisions
- Accelerate insights with Geospatial Agentic AI, transforming analysis into actionable intelligence quickly



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Parabolic Manpack Satcom Terminal - A1000

Parabolic Manpack Satcom Terminal A1000 is a custom-built tri-band SATCOM terminal providing reliable broadband connectivity, featuring integrated equipment, compact lightweight design, and rapid deployment in harsh and hostile environments.

- Includes BUC, LNB, modem, power supply, M&C, GPS, and battery
- Compact and lightweight
- Deployment in less than 10 minutes



Flat Panel Manpack Satcom Terminal - M300

Flat Panel Manpack Satcom Terminal - M300 is a portable Ku-band SATCOM terminal with compact form factor, ruggedised for harsh tactical scenarios, delivering high-performance and quick deployment.



LAND CAPABILITY



Powering Public Safety on the Move

Integrated mobility, robotics, and support systems for safer, smarter ground operations

We power public safety on the move by equipping agencies with solutions that keep them agile, connected, and safe.

Our EXTREMV all-terrain carrier enables access to flood zones, debris fields, and remote terrain, while the TAURUS UGV and the RHINO protected vehicle provide protected mobility for frontline personnel.

Our Smart Vehicle Solutions enhance visibility and coordination, and Hybrid Electric Drive Kits extend range with quieter, energy-efficient operations. Autonomous robots handle routine tasks, freeing responders to focus on critical missions.

EXTREMV All-Terrain Tracked Carrier for HADR Missions

EXTREMV, from the BRONCO lineage, is a versatile, reliable multi-tasker supporting high rear payloads for personnel, logistics, and specialty roles in extreme environments, disaster relief, rescue, and firefighting operations.

- Amphibious All-Terrain Tracked Carrier for harsh weather and terrain
- Versatile modular mission module
- Modern, digitised and intuitively designed interior ergonomics



TAURUS Unmanned Ground Vehicle (UGV)

More than a vehicle, TAURUS, the Multi-Role UGV is a game-changing asset for public security and commercial use. Its modular, open architecture supports logistics, surveillance, hazard response, medical and rescue missions, powered by a fully electric, regeneratively charged platform with AI-enabled, mission-ready capability.

- Regenerative on-the-move power hub
- Fully electric independent drive units capable of export power
- Digitalised architecture for easy insertion of autonomy or other AI modules



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RHINO Next Generation Protected Vehicle

The RHINO supports missions from law enforcement to armed conflict, featuring fully digitised architecture and high-power density powertrain in Conventional and Hybrid Electric Drive, delivering payload capability and export power for sustained modern warfare.

- World's first hybrid electric 20T protected vehicle
- Fully digitised platform
- Supports a wide range of missions



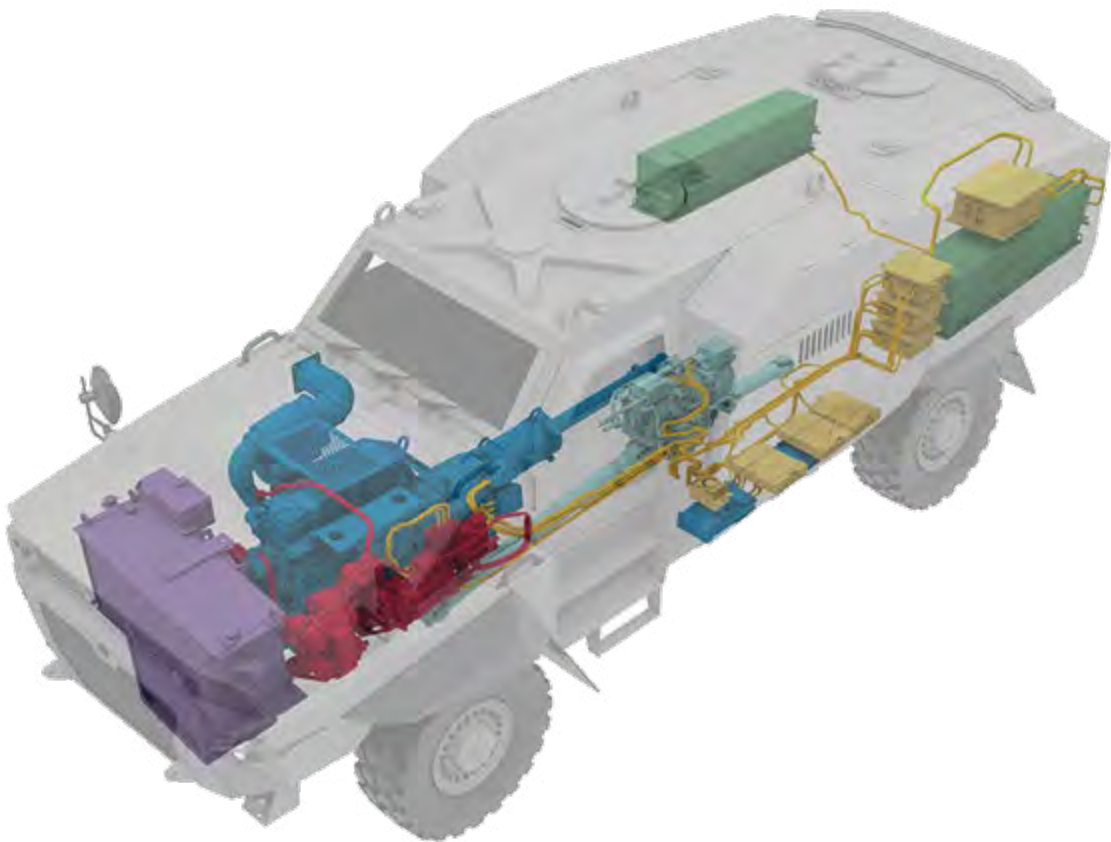
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Hybrid Electric Drive Kit

The Central Drive Hybrid Electric Drive Kit electrifies 4x4 vehicles, extending range and enabling power export, with high-power capability supporting extended stealth drive and silent watch operations.

- Increased export power for high-energy demand payloads
- Enhanced stealth for better evasion with silent drive
- Extended range with up to 30% fuel savings



Smart Vehicle Solutions

Smart Vehicle Solutions provide the platform's "Brain" and "Eyes," rejuvenating vehicles with innovative products that transform operational workflows, enhance driving experience, and significantly reduce crew cognitive loading.

Smart Vision Suite

The Smart Vision Suite integrates onto platforms, using AI and Machine Learning to deliver high-clarity imagery in extreme low-light conditions with low latency and real-time analytics from custom datasets.

Smart Digitalisation Suite

The Smart Digitalisation Suite rapidly modernises platforms by consolidating digital data into a customised Graphical User Interface (GUI), delivering a digital vehicle dashboard, MOSFET solid-state power controller, and scalable deployment for urgent operational upgrades.

PAVE Edge Vision

Fewer Cameras | Lightweight Intelligence

PAVE is an AI-powered single smart camera module that delivers 360° situational awareness, obstacle detection, and drone detection. By combining proprietary optics, advanced EO/IR fusion technology, and lightweight edge AI, PAVE provides scalable vision solutions for monitoring critical sites and processes, as well as integration with manned and unmanned systems.



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- 360° situational awareness
- All-weather vision
- Deploy lightweight AI throughout our technology stack – from sensor fusion to image enhancement to detection

Maintenance, Repair & Overhaul (MRO) & Services



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As an integrated MRO service provider, we deliver asset lifecycle support to enhance availability and operational readiness. Our services span from field service support to service life extension programmes, enabled by digitalisation, advanced analytics, and artificial intelligence to provide enhanced asset visibility, control and performance.





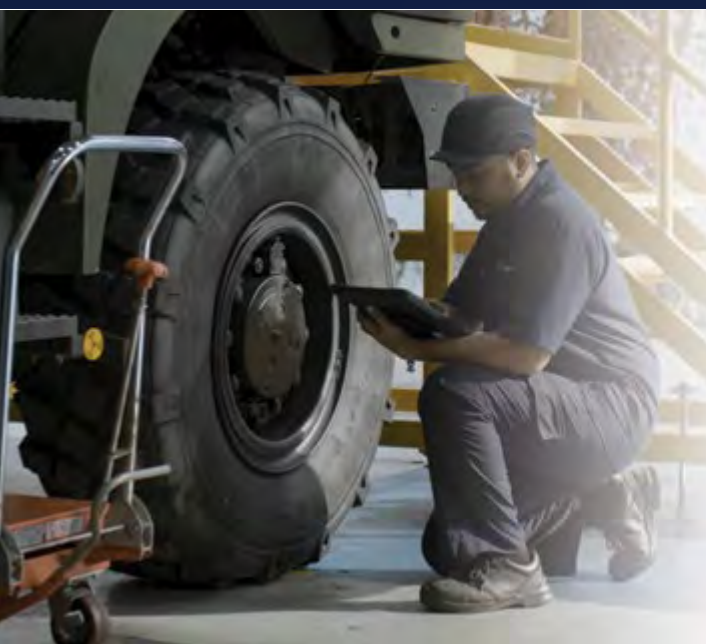
Workshop & Asset Digitalisation

We enhance operational efficiency through workflow digitalisation and automation, enabling proactive maintenance by integrating IoT-enabled health monitoring and fleet management systems.



AI-driven Analytics

We support informed decision-making through predictive maintenance and supply chain analytics, reinforced by failure analysis to improve asset availability, reliability and operational efficiency, while reducing the total cost of ownership.



Component MRO

We specialise in maintaining a wide range of mechanical, hydraulic, and electronic systems, ensuring the reliability of over 1,800 components. Our expertise includes engine remanufacturing, re-engineering, and customised tester development, which address obsolescence, extend asset life, and enhance supply chain resilience.

Autonomous Patrol Robots

Patrol and Security

Leveraging smart technology, ST Engineering has developed a suite of autonomous robotic solutions, providing a collaborative and intuitive system that can complement any existing security and logistics operations. This enables better deployment of human resources for higher-level tasks.

Outdoor Patrol Robot

The Outdoor Patrol Robot is an AI-powered security robot with safe, autonomous navigation, cybersecurity protection, and all-weather readiness to deliver dependable performance with minimal human intervention. Its multi-role capabilities, including interdiction, interaction and instrumentation, are enabled by AI agents that dynamically adapt based on real-time user commands, the Outdoor Patrol Robot maximises utility while minimising fleet size. It is integrated with Health & Usage Monitoring System (HUMS) + AI for predictive diagnostics and preventive maintenance, ensuring higher system availability and reducing lifecycle costs.

- Autonomous navigation to deliver dependable performance
- Enabled by AI agents that adapt in real-time
- Predictive diagnostics and preventive maintenance



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Indoor Patrol Robot

The Indoor Patrol Robot is a cutting-edge security robot designed for modern commercial spaces and key protection areas. It revolutionises security systems with its advanced AI, sensors, cameras and autonomous navigation. Equipped with AI-powered video analytics, the Indoor Patrol Robot collects vital data, detects hazards, and performs tasks ranging from routine patrolling and real-time threat detection to crowd monitoring, emergency response management, and access control.

- AI-powered vision analytics
- Safeguard against emerging threats
- Smarter and safer

Ammunition

Empowering Law Enforcement Agencies

The less-than-lethal ammunition is ideal for controlling and dispersing groups of protesters or rioters. It offers a longer effective range and can be fired from existing grenade launchers.



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Less-Than-Lethal

- 40 mm Less-Than-Lethal
- 40 x 46 mm Air-Bursting Multi-Pellet LV
- Smoke - CS Tear Gas
- White, CS Tear Gas Flameless
- CS Tear Gas Multi-Pellet, Bursting
- CS Tear Gas

ARC

Keep Cool | Keep Going

ARC is a wearable cooling solution designed for professionals working in high-heat environments. Using advanced thermoelectric technology, it delivers on-demand, efficient cooling to reduce heat stress and improve comfort. Lightweight and portable, ARC enables users to maintain focus and productivity without the bulk or limitations of traditional cooling systems.

- On-demand thermoelectric cooling
- Wearable, lightweight, and portable
- Built for tough environments
- Dual-mode cooling



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EasyExo

EasyExo provides essential support and protection during demanding physical activities, featuring flexible straps and durable materials to ensure a secure, comfortable fit under rigorous operational conditions.

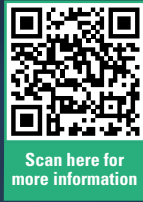
- Provides musculoskeletal support during lifting or bending to maintain correct posture and reduce back strain
- Lightweight and durable
- Comfortable fit



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ARIELE Protection Systems



Add-on Armour

Engineered for maximum survivability, the modular protection solution supports standalone or add-on deployment, enabling rapid upgrades with flexible protection levels while minimising downtime and avoiding costly deployments.

- Multi-hit performance
- Modularity
- Lifecycle efficiency

Protective Vest

Built for agility, ARIELE Protective Vests deliver scalable protection for law enforcement and operational units, with a load-bearing system incorporating integrated belly band and yoke to optimise weight distribution.



Body Armour Suite

ARIELE Body Armour Suite provides versatile high-impact and stab-resistant protection, combining soft and hard armour, adaptable to varying threat levels and operational needs.



CleArmour

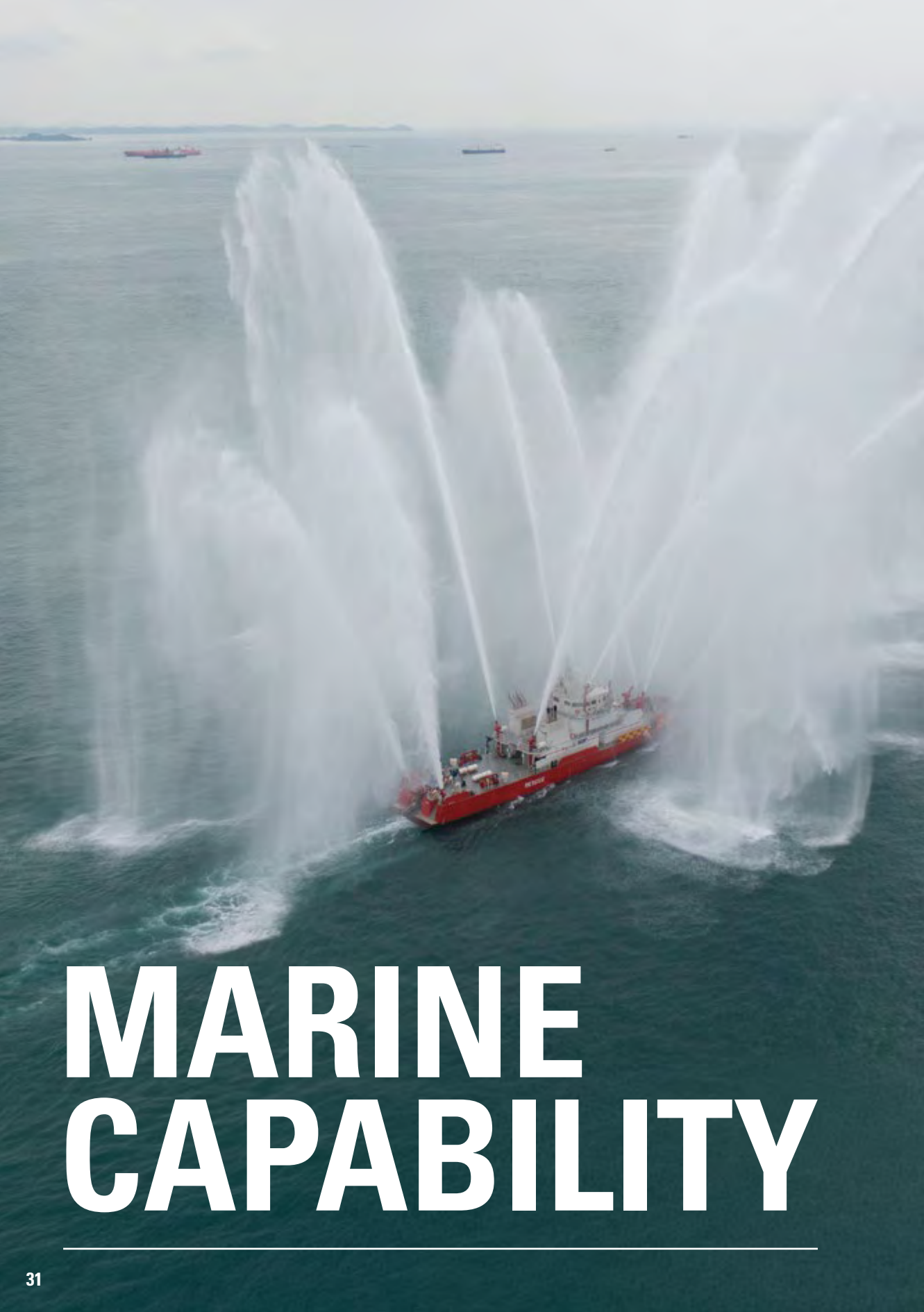
CleArmour's lightweight design using transparent ceramics effectively protects against armour-piercing and multi-hit threats. It is scratch-resistant and prevents delamination for lasting clarity and visibility.



Head-Borne System

Designed for extended use, the ARIELE Head-Borne System uses lightweight advanced materials, ergonomic foam padding, and a 4-point adjustable retention system to minimise fatigue while ensuring secure, comfortable protection during extended missions.





MARINE CAPABILITY

AirFish

Redefining Coastal Transport and Logistics

The AirFish family of Wing-in-Ground (WIG) craft redefines maritime transport by enabling safe, sustainable and swift coastal travel and logistics.

Utilising aerodynamic forces and air pressure generated between the craft and the water surface, AirFish WIG craft bring about significant time savings and convenience for maritime transport, luxury travel and delivery of parapublic services.

- **Swift:** 3x the speed of marine craft
- **Sustainable:** Higher efficiency from flying close to the surface
- **Safe:** Unique wing design provides inherent stability in ground effect
- **Simple:** Requires minimal maintenance and simple infrastructure
- **Smooth:** Avoid rough seas without turbulence, low cabin noise ensures a smooth and comfortable ride



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Rapid Response Across Maritime Frontlines

Smart surface platforms and robotics for safety, rescue, and enforcement at sea

Our marine solutions support fast, coordinated action at sea - from firefighting and search and rescue to enforcement and patrol.

The Heavy Firefighting Vessel provides high-capacity response for harbour and offshore emergencies, while

the Coastal Patrol Boat delivers speed, agility, and modern policing capability. Unmanned Surface Vessels (USVs) enable remote firefighting and enforcement with reduced crew risk. The XPYDER hull-climbing robot performs safety checks and surveillance above the waterline.

Together, these platforms strengthen maritime safety, responsiveness, and coverage.

Coastal Patrol Boat

High-speed vessels that deliver speed, agility and reliability for maritime security operations

The Coastal Patrol Boat is equipped to perform multiple roles such as pursuit and arrest, coastal surveillance, harbour patrol, security, and search and rescue operations.

- High-speed performance reaching speeds over 55 knots
- Equipped with a remote-controlled fire monitor
- Designed for swift and agile movements
- Robust construction to withstand harsh marine environments



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Heavy Firefighting Vessel (HFV)

World's most powerful firefighting vessel

Our state-of-the-art firefighting vessel is designed to deliver unparalleled performance and reliability in maritime emergency response. Engineered with precision and built to the highest standards, this vessel is equipped to handle the most demanding firefighting operations at sea.

- 12 water and foam monitors
- Capable of speeds up to 20 knots
- Ability to supply clean air for 24 hours
- Accommodate up to 30 evacuees
- Mothership for USVs and UAVs



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Unmanned Surface Vessels (USVs)

Designed to meet the evolving challenges of maritime operations, our intelligent USV solutions deliver continuous surveillance, rapid emergency response, and mission-critical support across security, firefighting, and search & rescue applications. Combining advanced autonomy, powerful onboard sensors, and flexible mission payloads, they provide a reliable force multiplier that keeps maritime communities safer while maximising operational efficiency.



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VENUS Unmanned Surface Vessel (USV)

Mission Flexibility on a Single Platform

Highly customisable, the VENUS USV supports autonomous missions with modular reconfiguration, integrating electro-optical and radar sensors for safe navigation in dense maritime environments and enabling diverse commercial, public safety, and security applications.

- Multi-mission capability
- Rapid reaction
- Ease of maintenance
- Designed for both manned and unmanned operations



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Maritime Policing

24/7 Autonomous Patrol and Surveillance

Enhance maritime security with the Policing USV — an autonomous force multiplier for public safety and law enforcement. Equipped with state-of-the-art Shipborne Electro-Optics (SEOS) and payload of choice, it delivers round-the-clock surveillance and operational readiness, enabling smarter, safer, and cost-effective maritime policing.

- Autonomous navigation with Collision Detection Collision Avoidance (CDCA)
- Autonomous patrolling of selected area of operations

- Day and night situational awareness from real-time video and data pipeback
- Flexible payload options based on mission requirements



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Firefighting

Coordinated Manned-Unmanned Fire Response

Our Firefighting Unmanned Surface Vessel utilises a catamaran hull design with excellent seakeeping and high-speed manoeuvrability. While the USV can be configured to operate without any mothership, it works in tandem with our Heavy Firefighting Vessel to give an extended arm for search and firefighting duties. It is also equipped with sensemaking capabilities such as predictive diagnostics, condition-based maintenance and decision support system.



Search & Rescue (SAR)

Long sustaining operational presence for rescue missions

The Search & Rescue USV delivers a persistent and reliable eye on the water, dramatically enhancing the speed and effectiveness of maritime rescue operations. With the ability to survey large areas, detect survivors using advanced onboard sensors, and provide precise real-time coordinates, it empowers rescue agencies to respond faster and save more lives.

- Autonomous navigation with Collision Detection Collision Avoidance (CDCA)

- Modular & reconfigurable for diverse SAR missions
- Crewless, persistent operations for safer and longer-duration rescue missions



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NERVA Ship Management System

NERVA offers centralised control and monitoring of platform sensors and systems. When integrated with ZAEL, it delivers predictive analytics, equipment health monitoring and predictive diagnostics.

NERVA Ship Management System is a cutting-edge solution designed to provide centralised control and monitoring of platform sensors and systems.



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- Offers comprehensive control and monitoring of all onboard systems into a unified human-machine interface, enhancing operational efficiency
- Configurable through modular customisation, allowing for easy upgrades and integration of new systems
- Provides decision support with intelligent alarm tracking and guided fault diagnosis
- Incorporates data analytics and machine learning for predictive diagnostics, reducing unplanned downtime and extending equipment lifespan



ZAEL

Harnessing ship data with ZAEL's intelligent system for predictive insights, and automated performance reporting for smarter vessel operations.

ZAEL is a platform-agnostic intelligent data layer that integrates seamlessly with existing Ship Control & Monitoring Systems, consolidating operational, performance and safety data into a single, unified foundation.

Sight – Vessel Performance

- Monitors vessel performance using operational data
- Creates sea trial reports automatically
- Helps improve vessel performance and speed up delivery

Pulse – Vessel Health

- Detects equipment issues early
- Predicts possible failures before they happen
- Helps reduce unplanned maintenance and downtime

Scribe – Safety & Compliance

- Monitors every voyage for safety
- Identifies risks and near misses
- Helps operators meet environmental regulations

Watch – Digital Watchkeeping

- Monitors CCTV feeds 24/7 using AI
- Detects smoke, fire, crew emergencies and unauthorised access
- Improves onboard safety and security

Vessel Traffic Management System

Powers the command centre onshore, connecting multiple sensors port-wide.

- Smarter decisions through AI
- Safer navigation through digital geo-fencing and environmental change detection
- Better situational awareness and vessel traffic visibility through intuitive visualisation



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XPYDER

Hull Climbing Robot

XPYDER is a wireless magnetic crawler adept at scaling ferritic mega structures. Its modular design allows versatile reconfiguration for multi-mission tasks. Equipped with on-board sensors and real-time surveillance, it boosts operator safety and operational efficiency.

- Versatile for any mission profile with its modular design



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DIGITAL CAPABILITY



Accelerating Digital Transformation

Prepare for tomorrow's security challenges with next-generation C5ISR solutions. Our digital transformation capabilities enhance collaboration, Manned-Unmanned Teaming (MUM-T), and situational awareness. We offer robust Command, Control, Communications, Cybersecurity, and Intelligence systems for real-time threat detection and rapid decision-making. Stay ahead of emerging threats and turn strategy into action with our cutting-edge technology.

AI-Driven Solutions

Our integrated AI-driven solutions provide robust protection and operational reliability against evolving security threats. Unified situational awareness and control can be integrated with any sensors, and robust countermeasures are implemented to neutralise drone threats, safeguarding critical installations and events effectively.

AGIL® Ops Hub

AGIL® Ops Hub is an AI-powered operations platform built for mission-critical environments. Leveraging the Sense, Decide, and Act approach, it delivers a common operating picture that enables public safety and security agencies to make informed decisions, coordinate multi-agency responses, and act with confidence in dynamic situations.

- Turn complex data into decisive action with real-time operational intelligence
- Anticipate, coordinate, and respond faster with AI-powered insights
- Unify teams, systems, and workflows through a shared operational picture



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Manned-Unmanned Teaming Operating System (MUMTOS)

Manned-Unmanned Teaming Operating System (MUMTOS)

MUMTOS is a next-generation, AI-powered command and control platform that unifies drones, unmanned ground vehicles (UGVs), and humanoids into a cohesive mission-ready force. Designed for both complex public security and defence scenarios, MUMTOS delivers real-time situational awareness and autonomous response capabilities, allowing operators to rapidly detect incidents, assess environments, and deploy unmanned assets without delay.

From critical infrastructure protection and large-scale event security to emergency response and disaster management, MUMTOS provides a single operational picture that seamlessly integrates human teams and autonomous systems, supporting faster, safer, and

more informed decision-making. Underpinned by robust cybersecurity and responsible AI safeguards, MUMTOS helps organisations enhance operational effectiveness while protecting both responders and communities.

- Plug-and-Play
- Optimised search without meta tags
- Real-time alerts
- High adaptability



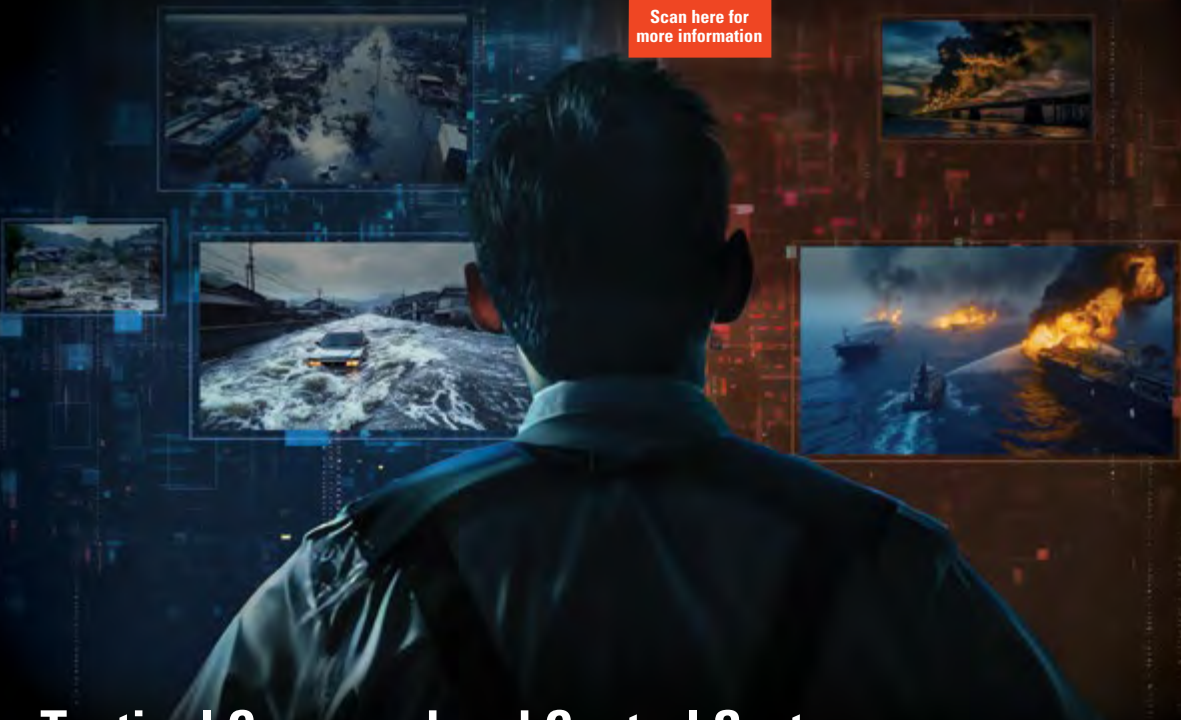
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Emergency Response System (ERS)

ERS facilitates inter-agency collaboration between public safety organisations and healthcare providers through agile, AI-assisted emergency response, enhancing coordination and helping save more lives.

- Rapid intelligent dispatch starting from call-taking to emergency response
- Coordinated communication across public safety agencies

- Accurate, dynamic picture for optimal resource allocation
- Lower infrastructure costs and simpler application management through Software-as-a-Service



Tactical Command and Control System

A Digital C2 system for firefighting, designed for incident commanders, staging officers, and emergency response teams - enhancing control, safety, and operational efficiency.

- **Situational Awareness:** Real-time tracking of crews, apparatus, and equipment
- **Resource Management:** Automates personnel status, deployment, and rotation
- **Communication:** Streamlines coordination; reduces radio traffic and confusion

- **Safety & Accountability:** Alerts for missing or at-risk firefighters instantly
- **Decision-Making:** Enables rapid, informed tactical adjustments on scene



AGIL® Vision

AGIL® Vision is one of the first video analytics suites in Singapore to harness generative AI. It addresses the limitations of traditional video analytics by enabling users to search vast amounts of video footage using natural language. Users can search for attributes such as clothing colour, clothing brands, hair length, as well as actions and behaviours, without the need for extensive algorithm training using large datasets.

Key features:

- **Searchable Video Intelligence:** AGIL® Vision enables flexible and detailed video searches using natural language queries. Users can identify specific objects, actions, or individuals based on descriptions such as clothing colour, actions (e.g., running or falling), or objects (e.g., unattended bags), without requiring predefined scenarios
- **Generative AI:** Unlike traditional AI models that depend heavily on supervised learning and labelled data, AGIL® Vision leverages unsupervised learning to identify patterns and structures in data without the need for labelled information
- **Wide Range of Applications:** Designed for scalability, AGIL® Vision can be deployed across various sectors, including security and surveillance, workplace safety, healthcare, and logistics

Intelligent Environmental Management System

IEMS combines intelligent multi-sensor technology with real-time analytics to deliver accurate and continuous environmental intelligence. The solution enables organisations to anticipate potential hazards, reduce operational disruptions, safeguard people and assets, and drive better business outcomes through timely, data-backed decisions.

- Configurable sensors for real-time monitoring
- Data-driven decision-making
- Odour classification
- Enhancing safety & situational awareness for operational resilience & business continuity



AI Surveillance Tower

Surveillance tower powered by AI for border surveillance and protection of key infrastructure.

- Enhances operational effectiveness as a force multiplier with AI that autonomously finds and tracks targets of interest
- Persistent day and night surveillance, reducing operator blind spots
- Supports off-grid deployment using solar panels



AGIL® Insights

In an era where perception shapes reality, the AGIL® Insights platform empowers organisations to stay ahead of emerging narratives, influence dynamics, and digital risk signals. As information ecosystems become increasingly fragmented and fast-moving, decision-makers can no longer rely on manual monitoring or reactive analysis. AGIL® Insights transforms overwhelming online noise into structured, strategic intelligence.

- **360° Media & Social Coverage:** Gain comprehensive visibility across news, social media, forums, and digital channels
- **Actionable Contextual Insights:** Understand the “why” behind conversations through event-level analysis, sentiment breakdowns, and deepfake identification
- **Geospatial Narrative Tracking:** Monitor narrative propagation across platforms and geographies to pinpoint where stories gain traction and how they spread
- **Narrative Network Intelligence:** Reveal key influencers and coordinated networks shaping public discourse and information campaigns

MRLN.AI

An AI-powered virtual assistant that understands voice, text and visuals to help users retrieve information, automate tasks, and make smarter decisions – seamlessly and securely.

- Streamline decision-making by automating tasks and reducing cognitive load so the team can focus on other priority work
- Deliver instant clarity through real-time data analysis, cutting uncertainty and speeding up response
- Surface hidden patterns and actionable insights through intelligent knowledge management – empowering users to stay one step ahead



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AGIL® Cloud Weave

AGIL® Cloud Weave is an advanced cloud management platform unifying visibility, control, and security across hybrid multi-cloud infrastructure, delivering deep observability, GPU resource optimisation, and streamlined manageability for enterprise and AI workloads from core to edge.

- Flexible smart cloud management and monitoring using Agentic AI
- Unified visibility of availability and security across hybrid multi-cloud infrastructure
- Standards-based interoperability via SNMP and REST APIs for multi-product integration

AGIL® Edge Compute

AGIL® Edge Compute is a next generation, thermally optimised, ruggedised short depth platform with dual-core processors and high-performance GPU. Designed for operational flexibility, it delivers reliable, high-performance processing in military, industrial, and harsh operational environments where resilience and uptime are critical.

- Dual processors with high-performance GPU for accelerated AI computing
- NVMe E1.S drives support higher density, thermal efficiency, and serviceability
- Nutanix-certified for seamless hyperconverged and virtualised edge integration

AGIL® Trust

An AI-driven platform that detects deepfakes, verifies content, and traces information sources to protect public trust and decision integrity.

- Detect deepfakes and manipulation across text, image, audio and video
- Verify content instantly with AI-powered fact checking
- Ensure source authenticity through transparent source traceability and tamper-proof origin verification, intent analysis and emotional disposition



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AGIL® Counter Drone

We offer a scalable, multi-layered, AI-driven command-and-control sensor-effector suite of counter drone solutions. Our advanced and robust technology ensures timely intrusion warnings and mitigation options, which are crucial for protecting key installations and events from threats posed by class 1 & class 2 drones.

AGIL® Counter Drone – RF Sensors

Using non-conventional frequencies, custom drones can evade detection by conventional RF decoders that rely on databases to identify them.

Leveraging AI-based drone libraries and augmented by our patented ML algorithms to detect generic drone waveforms, our sensors provide users the confidence of detecting both known and unknown drones.

- Rapidly deployable for quick response
- Small form-factor that combines both AI and ML detection

AGIL® Counter Drone – RF Jammer

The Drone RF Jammer System is a field-proven electronic countermeasure designed to continuously disrupt ISM and GNSS (L1, L2) frequencies. Leveraging high-powered amplifiers and precision

signal generators, it effectively neutralises single or multiple drone threats. Integrated with real-time detection and identification systems, it ensures accurate and targeted jamming.

Engineered for versatility, the system supports both fixed and mobile deployments, delivering consistent multi-band jamming within its antenna coverage.

- 360° omni-directional coverage
- Multi-band, continuous interference
- Effective against multiple UAVs

Counter Drone Laser Effector (CDLE)

CDLE rapidly neutralises Class 1 micro-UAVs using a 3 kW high-energy laser. Featuring automated precision tracking and an integrated sighting system with detection up to 1.5 km, it delivers controlled engagements up to 1 km with fast dwell times of 10 seconds at 1 km and 5 seconds at 0.5 km. Its modular design supports both static and vehicle-based deployment.

- **Precision Counter Drone Capability:** Rapidly neutralises Class 1 micro-UAVs with a 3 kW high-energy laser



- **Long-Range Detection & Engagement:**

Integrated sighting system detects targets up to 1.5 km, with controlled laser engagements up to 1 km

- **Rapid Neutralisation:** Fast dwell times of 10 seconds at 1 km and 5 seconds at 0.5 km against Class 1 micro-UAVs

- **Automated Precision Tracking:** Automatically tracks targets for accurate engagements while reducing operator workload

AGIL® Counter Drone C2

Implements robust countermeasures to neutralise drone threats, safeguarding critical installations and events effectively. Designed to meet the dynamic challenges of modern security threats, ensuring robust protection and operational reliability in critical scenarios.

Key features:

- **AI-driven Technology:** AI-driven artificial intelligence for enhanced detection, tracking and response to drone threats
- **Scalable Solutions:** Adaptable to various operational scales and environments, ensuring comprehensive coverage

- **Timely Intrusion Warnings:** Provides early alerts for potential drone intrusions, enabling proactive coverage

- **Mitigation Options:** Offers effective countermeasures to neutralise drone threats, safeguarding key installations and events

AGIL® Counter Unmanned Aerial System Simulation System

AGIL® Counter Unmanned Aerial System (C-UAS) Simulation System is an AI-powered integrated training solution, offering realistic training in decision-making, tactical employment and rules of engagement, addressing both known and uncertain threat scenarios.



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5G Solutions

Provide high-speed, low-latency, secure, and reliable connectivity to support mobile communications, enterprise digital transformation, and mission-critical applications.

The image features a large, stylized '5G' logo in a glowing blue, outlined font. The logo is set against a dark blue background with a faint grid pattern. To the right of the '5G' text, there is a dynamic burst of glowing blue lines and light trails that radiate outwards, suggesting high-speed data transmission or connectivity. The overall aesthetic is futuristic and technological.

All-in-one MEC

Multi-Access Edge Computing (MEC) enables faster, more reliable, and real-time decision-making by bringing compute and storage capabilities closer to where data is generated, such as devices, IoT sensors, and edge applications. Instead of transmitting all data to centralised data centres or the cloud for processing, MEC processes data at the network edge, significantly reducing latency, enhancing performance, and improving the overall user experience.

By enabling local data processing, MEC supports mission-critical applications such as surveillance, emergency communications, disaster response, and public safety operations, where low latency, high reliability, and rapid response times are essential.

Key benefits:

- **Faster Deployment & Data Residency:** Enables rapid deployment with local data processing and storage, helping organisations comply with data residency and regulatory requirements
- **Modular & Scalable Architecture:** Provides a flexible, scalable platform that can quickly expand to meet increasing demand during major events or emergency situations
- **Optimised Costs & Reduced Network Load:** Reduces bandwidth usage and cloud transfer costs by processing data closer to the source, improving overall network efficiency
- **Enhanced Real-Time Performance:** Delivers low-latency, high-performance processing for mission-critical applications, IoT applications that require immediate responses and decision-making
- **Improved Reliability & Resilience:** Ensures continuous operation of critical services even when connectivity to centralised data centres is limited or disrupted



5G System-on-Chip (SoC) Small Cell

The ST Engineering 5G System-on-Chip (SoC) Small Cell is designed to provide seamless, secure, and intelligent 5G connectivity – bringing carrier-grade performance closer to end users through a compact, efficient, and future-ready small cell platform.

Compliant with 3GPP standards, it seamlessly integrates into existing infrastructure, providing high-bandwidth, low-latency communications to support essential services in:

- **Flexible Deployment:** Suitable for offices, commercial buildings, hospitals, campuses, hotels, manufacturing facilities, transportation hubs, and public venues
- **Energy Efficient:** Advanced SoC technology minimises power consumption while maintaining high network performance
- **Secure by Design:** Incorporates carrier-grade security features to protect network access, management, and software integrity



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AGIL® Connect

Unified Communication Suites, SATCOM terminal

AGIL® Connect, built on our unified communications suite, ensures seamless interoperability across cellular, satcom, and radio networks, powering solutions like the 5G and manpack satcom terminals for edge connectivity.

- Low-bandwidth, low-latency links
- Connectivity for unmanned systems and high-definition camera streams
- Backhaul connections to higher headquarters
- Interoperability across different spectrum bands for seamless communication



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Unified Communications Suite (UCS)

Designed to integrate diverse communication systems – radio, satellite, and cellular – into a single, secure platform. It ensures seamless interoperability across different frequencies, networks, and devices, enabling effective, real-time information sharing in complex operational scenarios.

5G module can be included into the modular communications hub chassis enabling deployment of ultra-high-bandwidth, low-latency private cellular connectivity in a small form factor.

- Mobile radios for frontline responders
- IP and analogue telephony in command and control centres
- Secure client software for use on laptops and smartphones in the field
- Scales from single users to full mission operations
- Enables seamless cross-agency communication
- Maximises existing communication assets



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Mobile Command Platforms

In times of major crisis or natural disasters, rapid deployment of command centres to mobilise resources and coordinate multi-agency rescue efforts is critical to saving lives and property. Our range of customisable vehicles addresses the most demanding homeland security and emergency situations where clear and effective command, control and communications are essential.

- Mobile-ready mobility
- Interoperable communications
- Real-time insights & endurance

Mobile Command Post

Mobile Command Post (MCP) is tailored for cross-country and challenging terrains, featuring a rapidly deployable shelter and expandable working space (45 sqm) for on-site mission planning and emergency management.

- Provides 45 sqm of working space
- Supports interoperability between agencies
- Suitable for different terrains
- Supports voice, data and video communications



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Forward Command Vehicle (FCV)

Forward Command Vehicle (FCV) is tailored for command on the move. This allows commanders to issue commands and take control of the situation while en route to the emergency site.

- Supports interoperability between agencies
- Highly manoeuvrable
- Suitable for different terrains
- Supports voice, data and video communications



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Training & Simulation Systems

We help our customers learn and train more effectively so they can achieve mission success and enhance learning outcomes.

Our advanced learning, training, and simulation solutions serve a wide range of sectors, including aerospace, land, maritime, homeland security, and education.

We provide simulation and training systems for Live, Virtual and Constructive, Individual to Team, Common Simulation Environment, Multi-Domain Operations, and Digital Twin.



Incident Response Interactive Simulation (IRIS)

IRIS harnesses simulation training for public safety and security officers. Catering to diverse users ranging from frontline officers to commanders, our simulation solutions train officers to respond appropriately and effectively in an evolving incident or situation.

- Immersive simulation system with realistic scenarios
- AI assessment reports with training analytics



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AGIL® Digital Sandtable

A touch-based interactive device with an accessible tabletop user interface, that provides full visualisation of terrain using 2D map navigation and a correlated fly-around 3D view display. It supports scenario planning, urban planning and training of emergency response exercises.

- Next generation scenario planning and monitoring
- Tabletop user interface
- Immersive visualisation and emergency handling



Driver Training Simulation System (DTSS)

Our Driver Training Simulation System delivers high-fidelity, realistic virtual training across various vehicle types, including emergency response, motorcycle, airside, and bus driving. Available in configurations ranging from compact systems to full-scale motion simulators, it provides immersive training tailored to different operational needs.

- Scenario editor for customised training scenarios
- AI-powered debriefing with training analytics



Air Traffic Control Simulator

A fully scalable, high-fidelity training solution that offers highly realistic radar, procedural and aerodrome simulation.

- Mimics real-world scenarios to train for rapid decision-making in critical situations
- Cost-effective and flexible to switch between simulator modes in a single system



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Virtual Firefighting Trainer

Our Virtual Firefighting Trainer is an immersive firefighter training system that blends high-fidelity virtual fire scenarios with industry-standard equipment to deliver realistic training experiences. The system equips fire-fighters with the essential skills to enhance the quality of live fire training and improve situational awareness during real-life firefighting.

- Deliver realistic training experiences through the use of industry-standard equipment in high-fidelity virtual fire scenario
- Connected training system to achieve operational readiness with end-to-end training including learning analytics and performance platform

Unmanned Surface Vessel (USV) Simulator

Our USV Simulator provides realistic environments and scenarios to prepare operators for diverse challenges at sea. It supports familiarisation with USV operations, command procedures, autonomous deployment, navigation in varying weather, and emergency handling.

- Replicating and simulating actual USV system capabilities
- Realistic simulated environments and customisable training scenarios



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Virtual Boat Simulator

The Virtual Boat Simulator offers users immersive real-world scenarios with high-fidelity, realistic VR environments. It enables users to conduct high-speed operations in inclement weather while honing their navigational skills in challenging operational conditions.

- Replicating and simulating actual speed craft system capabilities
- Realistic simulated environments and customisable training scenarios



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Operational Driving Simulator (ODS)

This driving simulator combines a compact design with a lightweight build. Portability is enhanced when paired with a Head-Mounted Display (HMD), making it ideal for Just-In-Time (JIT) training at on-site locations. With four degrees of freedom (4DOF) motion, its precise tactile feedback accurately recreates a realistic driving experience.

- Superior portability with compact design and lightweight build
- Compatible with various immersive visual displays (e.g. XR HMDs)
- Customisable driving dashboard for different vehicle layouts and training needs

Drone Training

Kinetics Drone Training Centre (KDTC) delivers structured and comprehensive drone training and flight support services designed for professionals, industry operators, and organisations. Our programmes are developed in accordance with Civil Aviation Authority of Singapore (CAAS) regulations and established industry standards, ensuring safe, compliant and proficient Unmanned Aerial Vehicle (UAV) operations.

- **Drone Training & Certification:** From basic to advanced UAV operations, including UABT certification, mission planning, and precision flying
- **Flight Support & Consultancy:** Expert pilots, regulatory compliance assistance, and customised UAV solutions for security, inspections, and test flights
- **Specialised Industry Training:** Certified UAV operations in public safety, infrastructure inspection and emergency response

Specialised Driving & Technical Training

Our comprehensive training services include specialised driving training and technical training for technicians. Emphasising safety and precision, our rigorous programmes ensure readiness of drivers for deployment and fleet reliability.

- Technology integration for simulated training experience
- ISO-certified (ISO 9001, ISO 14001, ISO 22301, ISO 28000, ISO 45001)

Maritime Training Solutions and Services

Our comprehensive suite of training solutions and services is designed to strengthen safety and security across the maritime ecosystem. We deliver expert consultancy in port security, maritime training, and courses accredited and mandated by the Maritime and Port Authority of Singapore (MPA).

Our capabilities include consultancy, customised training design, competency-based learning solutions, digital learning platforms and training programmes delivery and support.

Extended Reality (XR) Solutions

Our Extended Reality solutions offer immersive and interactive training experiences. Users can practise complex maintenance procedures, hone collaborative skills for multi-person tasks, and explore new environments – all within the confines of low-risk virtual environments.

Key applications:

1. Enhanced training and design visualisation
 2. Simulation training
 3. Guided workflow / remote assist for training operations
- Bespoke solutions for a wide range of use cases
 - Ability to conduct multi-location remote collaborative training
 - A member of the limited group of partners for Microsoft Industry Solutions Unit



AGIL® Digital Twin

Our AGIL® Digital Twin solution is a real-time, AI-powered platform that creates 3D replicas of physical spaces, facilitating smarter management, enhanced visualisation and dynamic training environments. We combine computer vision, multi-sensor data and advanced analytics to deliver spatial intelligence for enhanced situational awareness, safety and operational efficiency.

Key applications:

- People & Assets Tracking:** Provide spatial context for precise, real-time monitoring of individuals, crowds and assets
- Building Management Systems (BMS)**
Integration: Seamless integration with existing BMS in buildings enhances operational efficiency
- Simulation Sandbox:** Enable realistic simulations for operations planning, resource allocation and infrastructure development



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AGIL® Digital Avatar

AGIL® Digital Avatar is an intelligent virtual assistant that provides real-time, human-like interactions through AI-powered conversations. It delivers accurate, context-aware responses from trusted knowledge sources, enabling organisations to enhance customer engagement, improve service efficiency and provide consistent 24/7 support across digital and physical touchpoints.

- Human-like AI interactions for engaging and intuitive user experiences
- Trusted, context-aware responses powered by validated knowledge sources
- 24/7 virtual assistance to improve accessibility and service availability
- Scalable customer engagement without increasing manpower requirements
- Customisable for diverse applications, including concierge services, visitor engagement, customer support and information assistance



AGIL® C-UAS Simulator

AGIL® Counter-UAS (C-UAS) Simulator is an immersive simulation and training solution that prepares teams to detect, identify, track and respond to unmanned aerial system (UAS) threats in realistic operational environments. By replicating a wide range of drone scenarios, the simulator enables trainees to develop tactical decision-making and operational proficiency in a safe, controlled and cost-effective setting. It supports individual and team training, helping organisations build readiness against evolving drone threats.

- Realistic, scenario-based C-UAS training that replicates evolving drone threats
- Safe and cost-effective simulation without the risks of live exercises
- Comprehensive operator training covering detection, identification, tracking and threat response
- Customisable training scenarios to meet diverse mission and operational requirements
- Enhances operational readiness through repeatable, performance-driven training

AGIL® CampusFlair

AI-enabled student success platform for holistic learner management and proactive intervention.

AGIL® CampusFlair helps learning organisations move from reactive learner support to proactive student success management.

AGIL® CampusFlair is an AI-enabled student success platform that empowers learning organisations to improve learner engagement, retention and outcomes through data-driven insights and proactive intervention management.

By consolidating learner, academic and operational data into a unified ecosystem, CampusFlair enables organisations to identify at-risk learners early, recommend targeted interventions, monitor intervention effectiveness and track key success indicators such as progression, completion and dropout rates. With real-time analytics and actionable insights, AGIL® CampusFlair helps institutions make informed decisions that drive learner success and organisational performance.

- **Early Identification of At-Risk Learners:** Detect engagement, attendance and performance issues before they lead to dropout
- **AI-Powered Intervention Recommendations:** Receive data-driven recommendations for timely and targeted learner support
- **Intervention Effectiveness Tracking:** Measure the impact of interventions and continuously improve support strategies
- **Retention and Dropout Analytics:** Monitor learner progression, retention, completion and attrition trends in real time
- **Unified Student Success Dashboard:** Gain a holistic view of learner success indicators across the organisation

Enterprise eLearning Content Development

Enterprise eLearning Content Development is a digital learning solution that enables organisations to create, manage, and deliver engaging, interactive, and scalable training or learning content for workforce development, compliance, onboarding, and continuous learning.

Key applications:

- Create learning content
- Accelerate content development with AI
- Enable workforce training & onboarding
- Deliver interactive learning experiences

AGIL® Learning Assistant

AGIL® Learning Assistant is a software solution designed to align with the evolving behaviour of digital-learners who expect interactive, on-demand, and context-aware learning experiences. More than just an AI tool, it provides a secure, on-premises training ecosystem that transforms existing knowledge assets such as SOPs and manuals into structured, interactive outputs, including training modules, presentation slides, and immersive learning experiences.

Unlike conventional AI tools that primarily support content interaction, it delivers end-to-end training capabilities while maintaining an instructor-in-the-loop approach, ensuring full visibility, governance, and consistency in learning delivery. At the same time, it elevates the role of instructors from content delivery to high-value coaching and mentorship, focusing on developing real operational capability.

- AI-enabled learning platform
- Secure, curated knowledge hosted on-premises
- AI-driven training content, modules, presentation slides, and immersive learning experiences
- Instructor-in-the-loop
- End-to-end training management
- Immersion learning enabled

Training & Learning Management System

A comprehensive Training & Learning Management System that enables organisations across the Aviation, Marine, Land and Higher Learning (IHL) sectors to deliver, manage, track, and optimise training, learning, competency development, certification, and workforce performance through a centralised digital learning platform.

Key applications:

- Learning & course management
- Training administration
- Competency development
- Onboarding & compliance training
- Assessments & certification
- Built-in learning analytics & reporting

AI Intelligent Learning Space

AI Intelligent Learning Space is an AI-powered smart classroom ecosystem that integrates digital learning platforms, intelligent applications, and secure infrastructure to deliver personalised, data-driven, and scalable learning experiences. It enhances teaching and learning through AI automation, analytics, engagement monitoring, virtual assistance, and competency tracking.

Key applications:

- AI-powered learning, tutoring and curriculum generation
- Automated assessment, marking and examination proctoring
- Classroom attendance, engagement and learning analytics
- Competency, training and performance management
- Learner wellbeing monitoring and early intervention
- Smart classroom and smart campus operations
- Data-driven learning governance and decision support
- Scalable hybrid, digital and future-ready learning ecosystem

AI-Powered Knowledge Examination & Assessment System

An AI-enabled assessment platform that automates examination creation, delivery, proctoring, marking, and analytics to provide secure, scalable, and data-driven knowledge evaluation and competency assessment.

Key applications:

- Exam creation & delivery
- AI auto-marking
- Secure AI, remote or live proctoring
- Competency assessment
- Test centre & certification management

AGIL® Co-Trainer

1. Rapid Scenario Generation

Utilises generative AI to automatically generate and modify scenarios using ChatGPT-like prompts. Eliminates the need for laborious and manual creation of individual entities and behaviours to generate a scenario. Scenarios are clearly specified to enable targeted adjustments and refinement by instructors.

2. Interactive Virtual Teammates

Virtual Teammates provide realistic responses to support individual training. Learners can train autonomously without the need for additional overheads. Our virtual teammates will also highlight errors, just like seasoned operators conducting training for new and inexperienced trainees.

3. Training Dashboard

Training Analytics engine captures trainees' performance data to provide evidence-based evaluations across all training sessions.

The performance dashboard highlights training outcome using key performance indicators, with relevant data to enable performance review.

- An AI-powered training companion that empowers instructors with real-time knowledge, guidance, and learner support – enhancing training delivery without replacing the human instructor



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Ship Handling Simulator (SHS)

Effective training for basic navigation, watchkeeping, collision avoidance, voice communications, low-speed manoeuvring and emergency procedures.

- Replicating and simulating actual ship system capabilities
- Realistic simulated environments and customisable training scenarios



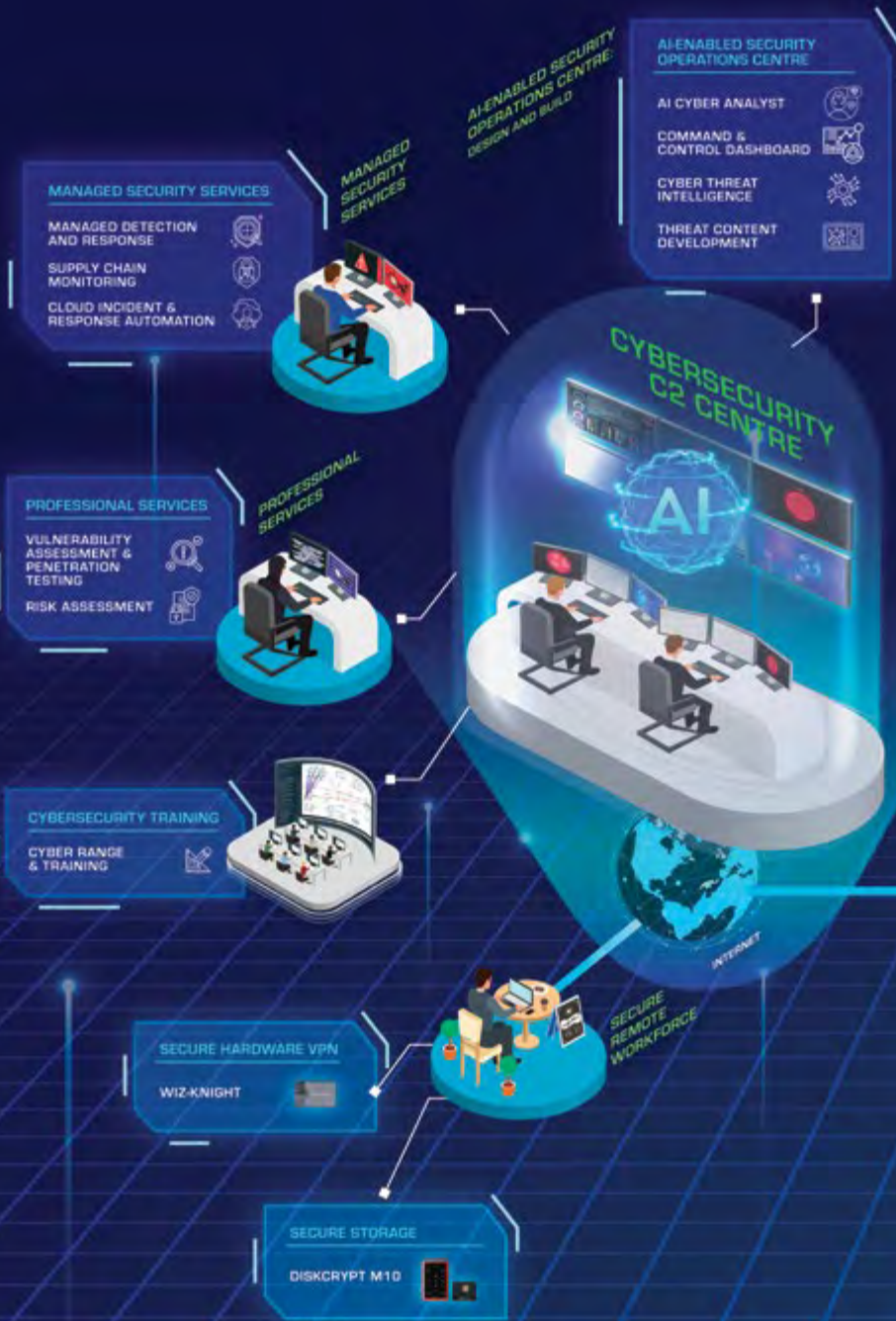
AGIL® Virtual Navigator

AGIL® Virtual Navigator transforms voyage planning into a streamlined, integrated digital workflow.

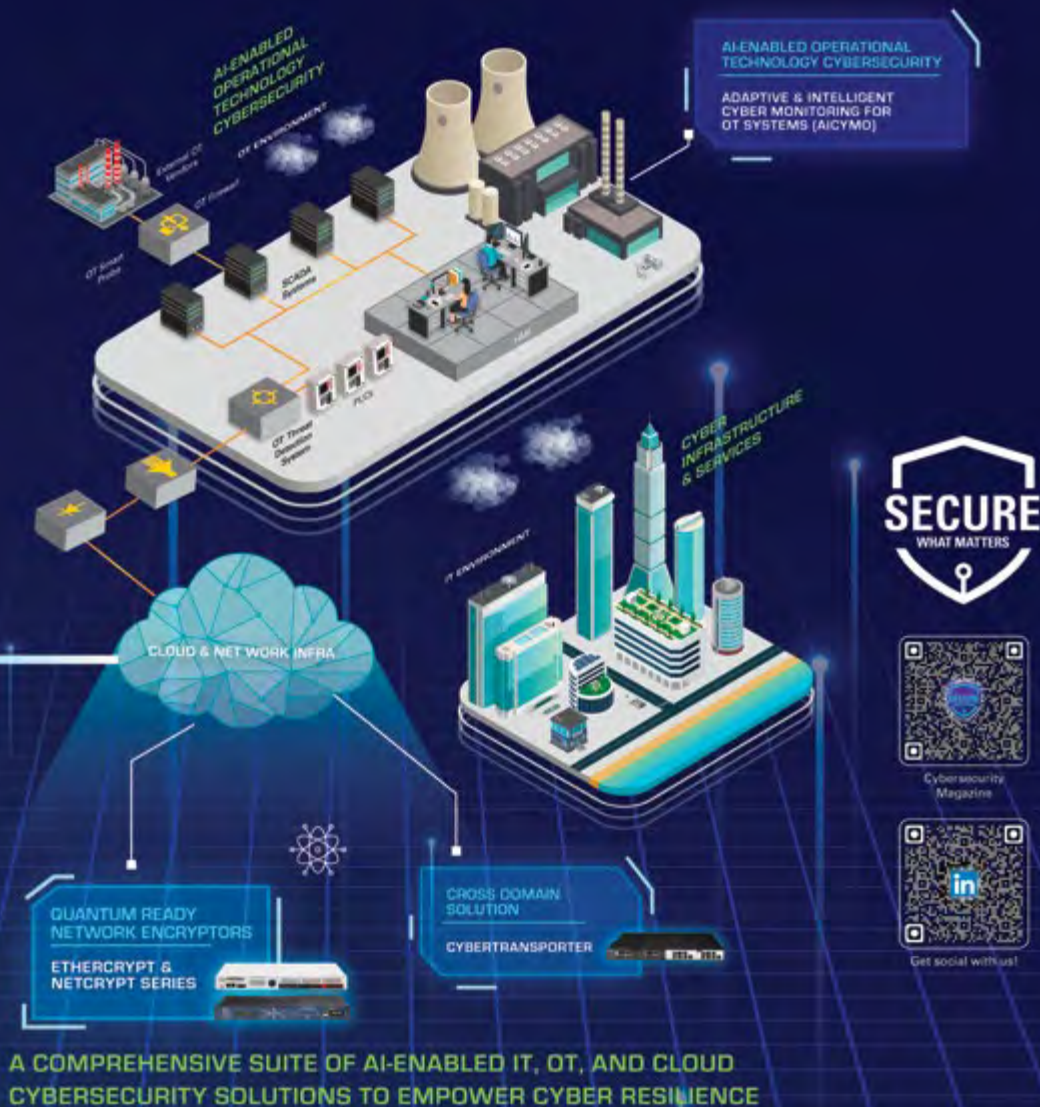
By consolidating key inputs – weather, currents, navigational hazards, and real-time data – it automatically generates optimised routes and complete planning packages within minutes.

Planners can shift from manual compilation to review, validation, and refinement, with outputs ready for immediate use on the bridge.

- **AI-Powered Voyage Planning:** Automates route generation and passage planning using intelligent decision support
- **Planning in Minutes, Not Hours:** Dramatically reduces voyage planning time, enabling faster mission readiness
- **Intelligent Route Optimisation:** Analyses weather, tides, navigational hazards and operational constraints to recommend the safest and most efficient route
- **Automated End-to-End Passage Plans:** Produces complete, operationally ready passage plans with minimal manual intervention
- **One Integrated Planning Platform:** Consolidates multiple navigation data sources into a single, streamlined workflow for greater efficiency and consistency



CYBER CAPABILITY



A trusted cybersecurity partner, we protect Singapore's government, critical infrastructure, and businesses. With deep expertise and a strong track record, we provide end-to-end solutions that strengthen public security and national resilience.

Secure Gateway

Public safety and critical infrastructure operations depend on trusted data exchange across networks of differing classification and trust levels. Our secure gateway portfolio enables fast, reliable data transfer, protecting information integrity without sacrificing operational speed.

CyberTransporter

In environments demanding strict information assurance, secure exchange across networks of different security levels is vital to prevent cyber threats, data leaks, and unauthorised access. CyberTransporter achieves this with patented hardware-enforced unidirectional security and integrated content assurance, providing a high-assurance data diode built for secure one-way information transfer.

- File loss detection capability
- High throughput
- Stackable hardware for integration of third-party solutions



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Secure Network

As threats evolve, public safety agencies and critical infrastructure rely on resilient, trusted communications for mission-critical operations and national security. Our secure network portfolio provides quantum-resilient protection for data in transit, ensuring confidentiality now and in the future.

Quantum-safe Encryptor

Quantum computing is transforming the threat landscape, making mission-critical data in transit vulnerable to new and existing risks. Our Quantum-safe Encryptor addresses these threats with Post-Quantum Cryptography (PQC), integrated Quantum Key Distribution (QKD), and hardware-based encryption, ensuring robust protection for sensitive communications today and in the quantum future.

- Quantum-safe encryption for long-term data protection
- Centralised management and control
- FIPS-ready, tamper-resistant hardware security



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Secure Workforce

Modern public safety operations require seamless, secure access to critical systems and information, no matter where personnel are deployed. Our remote workforce solution provides reliable, secure communications and trusted access for distributed teams, maintaining both security and operational effectiveness.





WiZ-Knight

Secure access shouldn't stop at the network perimeter. Personnel working beyond traditional boundaries still require protected access to critical systems and information. WiZ-Knight delivers this with hardware-enforced encryption, strong authentication, and endpoint isolation, providing a portable, field-ready secure access solution.

- Hardened, zero-trust-based hardware
- Quantum-resilient encryption for data in transit
- Secured device management



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DiskCrypt

Sensitive information often travels beyond secure environments, exposed to loss, theft, and unauthorised access wherever the mission takes it. DiskCrypt meets this through hardware-based encryption, smart card authentication, and tamper-resistant protection, delivering a hardware-encrypted storage solution built for the field.

- Hardware-based AES-256 encryption
- Smartcard-based two-factor authentication (FIPS 140-2 Level 3)
- Common Criteria EAL5+ certified



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AI-Enabled Cyber Command and Control Centre

A glowing blue square icon with the letters 'AI' inside, surrounded by a circuit board pattern with glowing nodes and lines.

We have designed, architected, implemented, and operated more than 23 Cyber Command and Control Centres (Cyber C2 Centres) across IT, Operational Technology (OT), and cloud environments for governments, Critical Information Infrastructures (CIIs), and enterprises. This includes work supporting Singapore's public security landscape, where safeguarding CII sectors under the Cybersecurity Act remains a national priority.

As threats grow more sophisticated, traditional Cyber C2 Centres struggle to detect and respond in real-time. To address this, we engineer Agentic AI for security operations to autonomously triage, investigate, and orchestrate responses at machine speed. This is supported by Cyber Threat Intelligence, Advanced Threat Content Development, and Centralised Command and Control Dashboards.

Together, these capabilities transform Cyber C2 Centres from reactive monitoring to proactive, self-directed defence, delivering faster and smarter cyber responses for Singapore's public security and national resilience.

Agentic AI SOC

Transforming Cyber Defence Operations

Traditional SOC's struggle to keep pace with alert fatigue, blind spots, and increasing incident volumes. Agentic AI SOC redefines cyber defence by pairing autonomous AI agents with expert analyst oversight, managing detection, triage, and response at machine speed while humans validate and decide. The result is incident handling reduced from hours to minutes, decreased analyst fatigue, and a shift from reactive monitoring to proactive defence.

- AI agents coordinate complex workflows to neutralise threats instantly
- Human expertise steers autonomous AI to pre-empt attacks
- Eliminates blind spots by correlating insights across critical infrastructure and cloud environments



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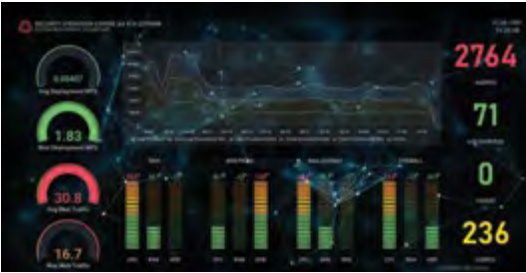


Threat Content Development

Comprehensive Threat Detection Use Cases

Threat content development transforms raw intelligence into actionable detections, enabling government agencies and organisations in Singapore to stay ahead of evolving threats to public security and CII. By mapping curated threat profiles to the MITRE ATT&CK framework and converting them into standardised Sigma rules, this approach provides consistent, portable detection logic that can be quickly adapted across security platforms.

- Intelligence-driven detection rules tailored to specific threats
- Seamless integration with diverse security technologies
- Enhanced visibility through MITRE ATT&CK mapping



Command and Control (C2) Dashboard

Elevating Cyber Situational Awareness

The C2 Dashboard simplifies operational complexity, delivering real-time, prioritised insights to defence, government, and critical infrastructure teams. Using advanced cognitive visualisation, it enables rapid threat assessment and confident decision-making in even the most demanding mission environments.

- Intuitive, human-centred workflows
- Proven command and control methodologies
- Cognitive visualisation dashboard for rapid, clear insight



Cyber Threat Intelligence

Enabling Threat Intelligence-led Operations

Our AI-driven cyber threat intelligence platform automatically processes vast, multilingual data streams using advanced Natural Language Processing. By converting raw intelligence into clear, context-rich insights, it empowers security teams to make faster, more informed decisions in both operational and strategic scenarios.

- Automates and accelerates intelligence delivery
- Supports global coverage with multilingual NLP
- Delivers actionable, context-rich insights for security teams



Adaptive & Intelligent Cyber Monitoring of OT Systems (AICYMO)

Singapore's water treatment facilities, rail networks, building management systems, and power plants face a growing volume of OT threats that traditional monitoring can't triage fast enough – risking delayed response across critical infrastructure. AICYMO revolutionises OT security with AI-driven sense-making, scoring threats by confidence level and prioritising them by operational impact to cut through alert noise. The result: faster detection, faster response, and responders across Singapore's CII and public sector security ecosystem free to focus on what matters most.



Managed Security Services

Unlike traditional Managed Security Service Providers (MSSPs), our intelligence-driven detection and monitoring provide customised strategies that boost resilience and fortify your security posture.

Our cybersecurity professional services offer end-to-end solutions, integrating strategic planning,

proactive security, and ongoing cyber training. We take a comprehensive approach to protecting organisations and building long-term resilience, advancing Singapore's broader public security and national cyber resilience objectives.

Managed Detection & Response (MDR)

Threats today move faster than periodic scans can catch, leaving gaps between compromise and detection. Our MDR service redefines cyber defence with continuous proactive threat hunting, behavioural analysis, and robust digital forensics and incident response, supported by advanced threat intelligence. The result is swift detection, rapid response, and comprehensive protection around the clock.

- Threat hunting
- Real-time detection and response
- Scalable and modular solutions



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Cloud Investigation and Response Automation

Multi-cloud environments expose organisations to complex, fast-moving threats across identity, network, API, and workload activity. Cyngular meets this with advanced, AI-driven detection and response, continuously analysing all four layers to deliver real-time, actionable insights. The result is early threat detection, minimised operational overhead, and decisive incident response with deep contextual awareness, all built for cloud-native architectures.

- Detects and correlates advanced cloud threats instantly
- Automates investigations and enables rapid response
- Delivers contextual insights and root-cause analysis for confident decisions



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Vulnerability Assessment & Penetration Testing (VAPT)

Evolving adversary tactics expose networks, wireless infrastructures, and mission-critical applications to risks that automated scans alone cannot fully capture. VAPT elevates security by combining automated intelligence with expert, hands-on testing, simulating real-world attacker methods to assess true mission impact. This approach delivers defence-grade assurance, secures operational environments, and ensures lasting resilience against evolving threats.

- Realistic adversary simulations that replicate genuine threats
- Emphasises real exploitability over hypothetical risk
- Provides actionable remediation guidance to strengthen resilience



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Cyber Wargaming Platform

Real-world cyber threats require response capabilities that classroom training alone cannot deliver. Cyber Wargaming transforms preparedness with a secure enterprise platform featuring live-fire simulated exercises, gamified team and individual learning, and an integrated Training Management System. This approach sharpens incident response, disaster recovery, threat hunting, and other essential skills, tested and validated in realistic conditions.

- Immersive, comprehensive cyber training
- Bridges the gap between theory and real-world application
- Team-based and individual gamified exercises drive measurable skill development



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