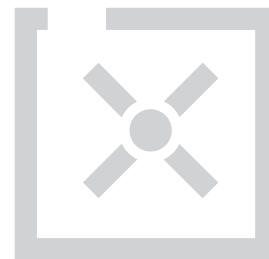




REMAVA



ADVANCE YOUR TESTING. PERFECT YOUR PERFORMANCE.

THE REGIONS ONLY MULTI-DOMAIN TRAINING,
TEST AND EVALUATION RANGE.



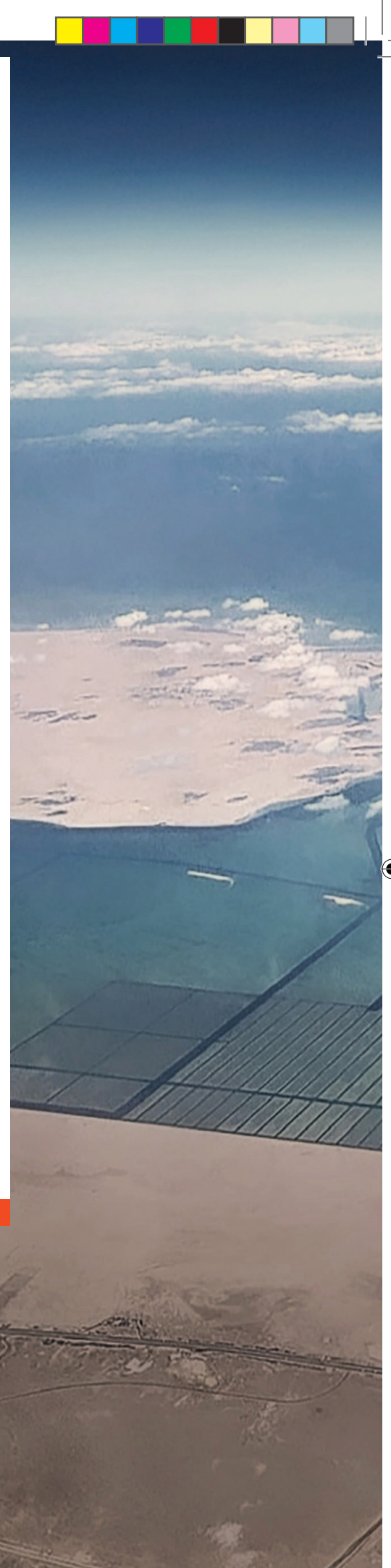
TEST, VERIFY, PERFORM

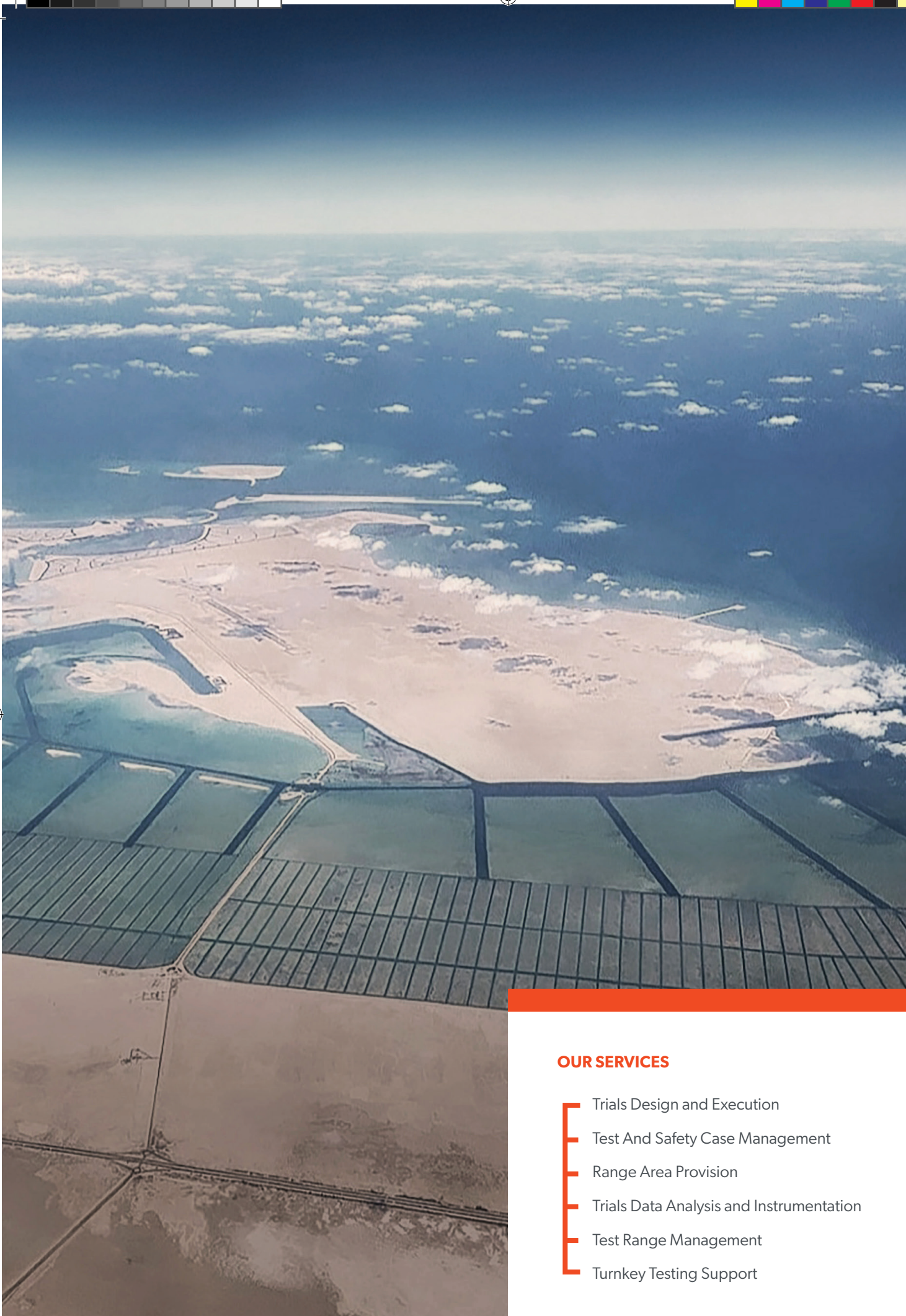
THE REGION'S ONLY MULTI-DOMAIN TRAINING, TEST AND EVALUATION RANGE

XRANGE brings flexible, multi-domain Training, Test and Evaluation (TT&E) capabilities to the heart of the Middle East. Commercial and military customers can conduct complex, air, ground and maritime trials in a secure, instrumented and ultimately, safe environment.

XRANGE allows our Global clients to test and verify the performance of their platforms, systems and munitions across their lifecycle – from concept design and acquisition to through to operational upgrades.

XRANGE has the ability to cater for a wide range of platforms and systems, such as unmanned air, ground and maritime platforms, through to testing mission critical sensors and Electronic Warfare systems as well as conventional munitions. Our trials are delivered with support from our highly qualified teams of Test Engineers and Subject Matter Experts and underpinned by the gathering of critical trials data via modern surveillance assets, range telemetry, RF monitoring and data acquisition systems.





OUR SERVICES

- Trials Design and Execution
- Test And Safety Case Management
- Range Area Provision
- Trials Data Analysis and Instrumentation
- Test Range Management
- Turnkey Testing Support

ABU AL ABYAD ISLAND

A short 100km drive from Abu Dhabi city, XRANGE is located on a highly secure, access controlled island approximately 8km offshore. It is 35km by 15km, enabling a land danger area of 355km², inclusive of a 3.8-km-long, 60-metre-wide ICAO standard runway and a smaller 1.2KM long runway.

XRANGE provides airspace clearance up to 10,000ft which can be extended to 40,000ft when required and an additional 2,500km² of airspace can be activated via NOTAM. A 50km² sea danger area enables shallow water testing of maritime assets and systems.

Operationally accessible year-round and ideal for hot weather trials due to its arid, humid and dusty environment, the fully functional runway and ability to clear UAE customs on the island mean customers can fly directly into and out of XRANGE, simplifying logistics.





SPECIALISED RANGE OPERATIONS

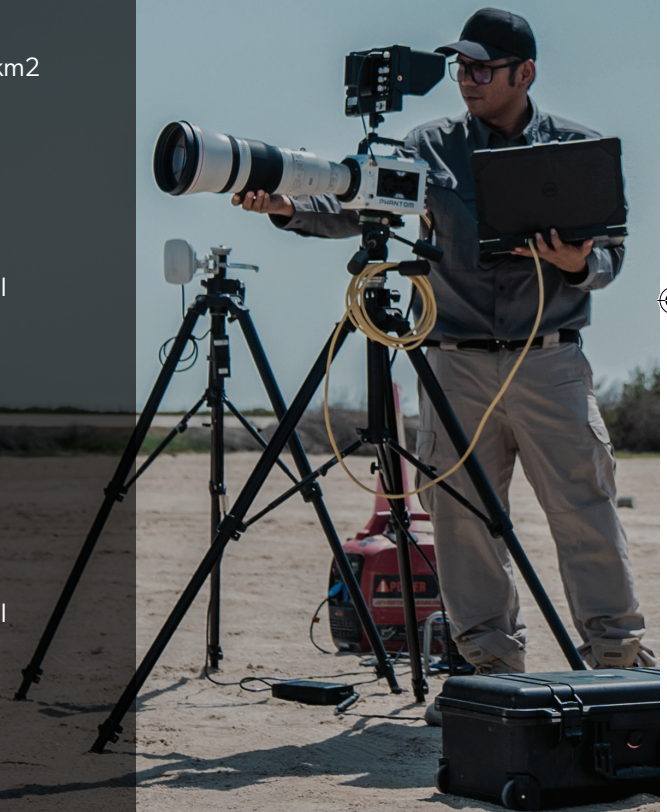
To meet the needs of all types of ground-based platforms and systems, REMAYA X-Range provides a variety of test environments – from tracks, climatic facilities and fixed shooting ranges, to clean areas – across 350km² of land area with navigation points and fixed and moving targets.

SKILLED PERSONNEL

XRANGE is staffed by a team of experienced TT&E professionals from the UAE and around the World. They bring years of regional and international TT&E experience to their roles across all domains, helping to ensure that our clients achieve their trials outcomes and deliver the results, data and analysis they require.

BESPOKE TRAINING OPPORTUNITIES

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MOBILE INFRASTRUCTURE

- Test control and Instrumentation cabins
- Test Team welfare and support cabins
- Ammunition storage containers
- Ground power generators
- Mobile telemetry and Instrumentation

RANGE SAFETY

Test and Evaluation is an inherently dangerous activity. XRANGE implements a rigorous range safety system to ensure our personnel and customers can work safely at all times. This includes rigorous safety case management and risk assessments, close coordination with UAE MOD and local authorities as well as instrumentation and systems, including:

- Range Security and Control Centre
- Passive Radio-Frequency Object Tracking
- Restricted access to range areas
- Explosive Ordnance Disposal Team
- Aerial surveillance and tracking radar
- Marine Coastal Radars
- Air and Maritime Band Radios
- Island Wide Secure Private Radio Network





ADVANCED INSTRUMENTATION

At the core of test and evaluation is data. Driving the evidence led decisions you need to make about your platform or system.

Our comprehensive suite of modern and portable trials instrumentation can be configured and customised to meet specific Training, Test and Evaluation goals and ensure our customers are capturing critical trials data.

PHOTOGRAPHY SYSTEMS

- Phantom® high-speed digital video system
- Flash X-Ray
- Muzzle Velocity Radar

TELEMETRY, TRACKING & RADAR

- Data acquisition systems
- Sensors for:
 - Blast Pressure
 - Acceleration
 - Vibration
 - Temperature
 - Load and Fatigue
 - Sound and Noise Levels
- Gnaw Radiosonde
- Electromagnetic Spectrum Analyser



ENVIRONMENTAL TEST CENTRE

XRANGE provides access to an Environmental Test Capability designed to subject platforms, munitions and their components to harsh environmental conditions in preparation for meeting stringent international standards.

ENVIRONMENTAL TEST CENTRE KEY FEATURES

Two test buildings designed for Environmental Test of Explosive Sub-systems and components. Eg Warheads, Fuzes and Rocket Motors, including:

- 11KVA, 40 ATP Electro-Dynamic Shaker Table
- 30 KVA, 63 ATP Conditioning Chamber
- 230V, 1PH Climate Control Chamber
- 40 ATP Jumble & Jolt Machine
- ARENA Static Explosive Ordnance Trials
- 12-Meter-High Detonic Drop Test Scaffold with Hard Standing Impact Area

REMAVA's ETC is staffed by experienced operators with extensive experience in supporting clients prepare their products to support certification to internationally recognised standards such as MIL-STD 810.





AIR TESTING

**THE LARGEST AND HIGHEST
AIRSPACE ALLOCATION
AVAILABLE TO COMMERCIAL
CUSTOMERS IN THE UAE**

XRANGE offers the ability to test multiple types of aerial platforms and weapons, including UAVs, short-range missiles and fixed and rotary-wing aircraft.

Our airspace covers 350km² and is cleared to 10,000ft, with the ability to extend up to 40,000ft when required and a 100km long overflight extension area projecting into the Arabian Gulf.

Two large live-fire air ranges totalling 80km² are available as well as 12 smaller individual 2km² UAS flight test zones with supporting flight test facilities.



TRIAL TYPES INCLUDE:

- Initial flight testing,
- BLOS communication and data links,
- Manned-Unmanned Teaming (MUM-T) Trials,
- Live-fire weapons release
- UAV flight characteristics and endurance testing

FLIGHT SUPPORT INFRASTRUCTURE

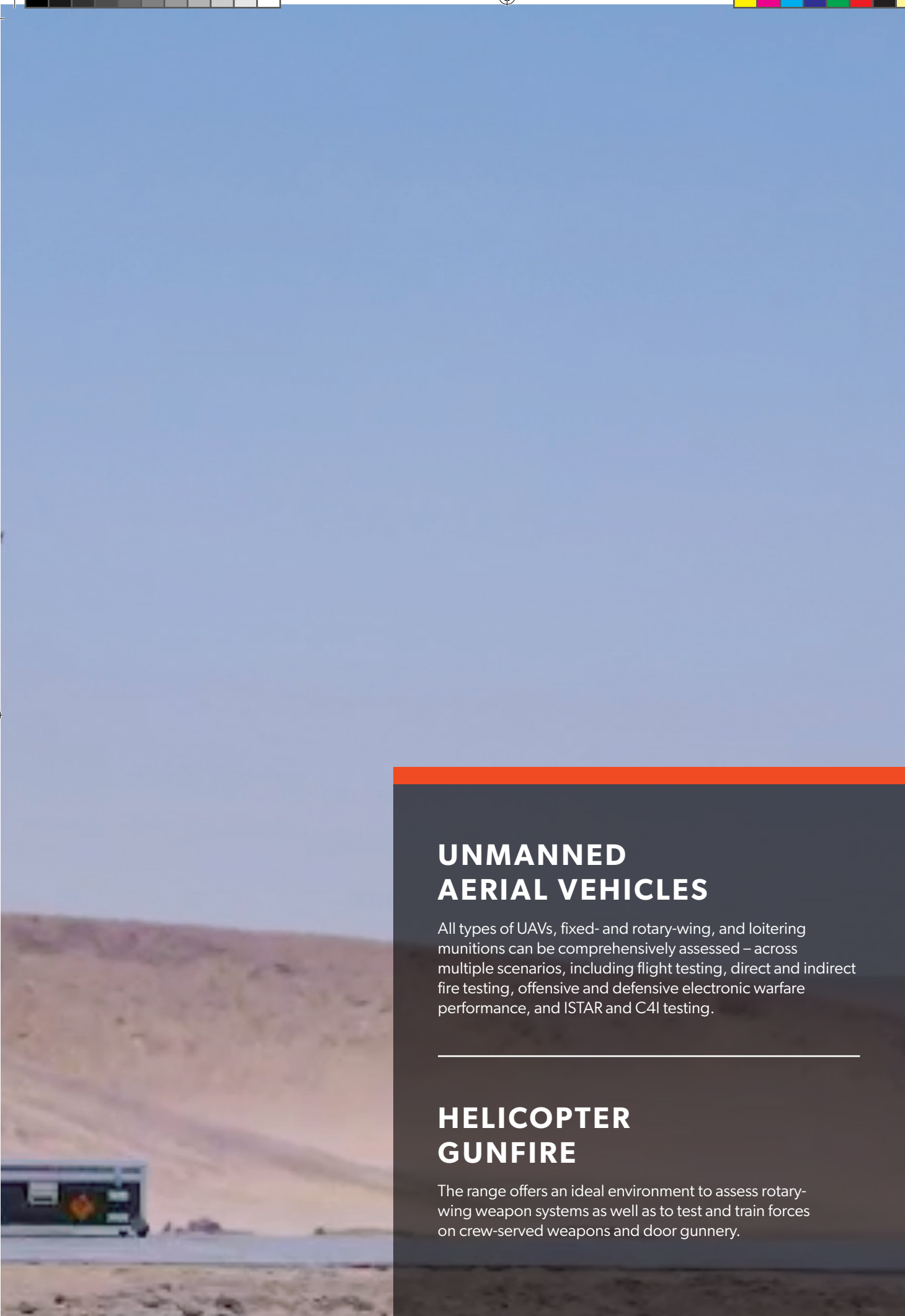
- 3600m x 60m primary asphalt runway
- 1200 x 30m secondary asphalt runway
- Two 1.2km compacted earth emergency runways
- Three VTOL UAS ground control station test pads
- 12 2km² UAS flight test zones
- Hangars, workshops, storage, and office facilities



SHORT-RANGE MISSILES

Short range Air to Air (AAM) or Air to Ground (AGM) missile firings with the opportunity for multiple firing points and impact areas as well as static or dynamic target systems. Real time tracking, telemetry and data acquisition systems help you to capture crucial performance data.





UNMANNED AERIAL VEHICLES

All types of UAVs, fixed- and rotary-wing, and loitering munitions can be comprehensively assessed – across multiple scenarios, including flight testing, direct and indirect fire testing, offensive and defensive electronic warfare performance, and ISTAR and C4I testing.

HELICOPTER GUNFIRE

The range offers an ideal environment to assess rotary-wing weapon systems as well as to test and train forces on crew-served weapons and door gunnery.






LAND TESTING

UNDERSTAND YOUR PLATFORMS PERFORMANCE IN THE HARSHTEST OF ENVIRONMENTS


XRANGE facilitates all types of ground-based platforms, including UGV's, MRAP's and IFV's. Extensive facilities include diverse driving environments, climatic test facilities and live fire range areas.

XRANGE supports the collection of test data through ruggedised data acquisition systems mounted to test platforms. These systems are able to measure critical metrics such as vibration, noise measurements and blast pressure.

HOT WEATHER TRIALS



For all types of land vehicles, XRANGE provides a multi-terrain environment to test and evaluate performance and durability in hot, humid and dusty conditions – with temperatures regularly exceeding +47OC and testing areas exposed to high winds and sand.



DISCREET TESTING ENVIRONMENT

Conveniently located on a secluded and access-controlled island, XRANGE offers a range of discrete testing environments across multiple driving surfaces.

VEHICLE SURVIVABILITY

All types of platforms and systems can be subjected to comprehensive vehicle blast and ballistic testing to assess crew and occupant protection as well as vehicle survivability, including:

- Small Arms ballistic threats
- Roof or floor grenade strike
- AT or AP Mine wheel or floor strike
- RPG Overmatch
- IED's



SHORT-RANGE INDIRECT FIRE MUNITIONS

XRANGE offers range areas to conduct test and evaluation of short-range indirect-fire munitions such as mortars up to 120mm. Including:

- HE and Conventional Mortar Rounds
- Laser and GPS-Guided Rounds
- Extended Range Rounds
- Smoke/Illumination Rounds
- Dismounted or Vehicle-Borne Mortar Systems



MARITIME TESTING

TEST AND ASSESS YOUR NAVAL PLATFORMS IN THE LITTORAL ENVIRONMENT.

XRANGE provides access to a secure and instrumented maritime range environment that spans 50km² of the shallow littoral environments patrolled by the UAE Coast Guard.

SURFACE PLATFORM PERFORMANCE

A wide range of surface vessels – from fast attack craft, offshore Patrol Vessels and Unmanned Surface Vehicles can conduct test serials in warm water depths ranging from 2m to 15m.

COMPLEX SITUATIONS. ADVANCED SYSTEMS

Complex surface and subsurface testing and training for maritime platforms and systems, including:

- Sub-surface platform performance
- Anti-surface and anti-subsurface weapons testing
- Navigational and communication systems testing
- Directed-energy weapons testing
- Mine countermeasure training
- Unmanned systems integration trials
- Manned-unmanned teaming (MUM-T)
- Naval gunfire support (NGS) trials







ELECTRONIC WARFARE

PREPARE TODAY FOR THE CONFLICTS OF TOMORROW

XRANGE offers customised capabilities to evaluate platform and system susceptibility to attacks and interference across the electromagnetic spectrum – whether on land, sea or air. Key features of our EW offering include:

- Access to a dedicated EW test range
- A Known, monitored, and controlled RF environment
- Directional or omnidirectional emission testing.
- Simulation of GPS- or GNSS-denied environments, jamming and spoofing
- Ability to use threat emitter units to stimulate onboard electronic attack warning systems.
- Suitable for ECM, ECCM, ESM testing and training
- Support to apply for UAE specific permissions for EW Testing
- Dedicated EW corridor for longer range EW trials

DIRECTED ENERGY

XRANGE provides a safe and controlled environment for testing directed energy weapons and target designation systems.







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remaya.ae

