

**ROKE**

# Roke

Changing Worlds as one Roke

14<sup>th</sup> July 2025



# POWERED BY CHEMRING



**We're proud to be part of the Chemring Group plc,** providing us with complementary expertise, corporate strength and access to international markets for our world-leading intellectual property.



Chemring is a world-leading technology business designing , manufacturing, supplying and supporting high-technology sensors, information, countermeasures and energetic solutions.



Chemring employs approximately 2,500 people worldwide, and with production facilities in four countries, Chemring meets the needs of customers in more than fifty countries.

# Roke Strategic Context

The growing threat viewed through the lens of changing context



**Global Threat: China**

- A continued threat, potentially emboldened by Russia's attack on Ukraine and changing US government policy.

**Global Threat: Russia**

- Ongoing war in Ukraine and the resulting increased tensions between Europe and Russia.

**Regional Conflict: Middle East**

- Israel - Hamas conflict.
- Civil war in Syria.
- Conflict between Iran and neighbours

**Regional Conflict: Sahel**

- Continued instability and terrorism, alongside the presence of extremist groups.

**Contested Domain: Arctic**

- Increasingly contested due to their military, economic, and geopolitical significance.

**Contested Domain: Space**

- Now a critical domain for military superiority, economic power, and national security.

**Technological Context**

**Advent of Prototype Warfare and Software Defined Capabilities**

- Rapid fielding of R&D -> operational capability becoming the norm - evidenced by Ukraine

**UK Political Context**

**UK Strategic Defence Review & UK Procurement Reform**

- Refocusing due to global threat and enabling a different approach to contracting in defence.

**UK Political Context**

**Increased UK Defence Spending**

- Increasing to 2.6% of GDP by 2027 , 5% on National Security by 2035

**International Geopolitical Context**

**Changing US Relations with NATO countries**

- Uncertainty and reduced dependence on US

**International Geopolitical Context**

**Increased European Defence Collaboration**

- Substantially increased European Defence spending commitments and cooperation to mitigate changing US relations

# Executive Summary

## WHERE HAVE WE COME FROM?

- A proud and distinguished history ... but, a Technology Campus rather than a business
- Disconnected strategy and technology
- Contract R&D business model
- A very academic lifestyle business

## WHERE ARE WE TODAY?

- A successful and growing core business
- A powerful, market aligned technology vision
- Delivering new infrastructure and systems
- A vibrant, highly motivated and increasingly diverse workforce
- Robust product development engine
- Ready to make the next big step!

## WHERE WILL WE BE IN THE FUTURE?

- Expanding leadership in our core, niche, markets
- Operating simple and efficient systems
- Working under a world leading brand
- Less reliant on headcount driven revenue
- Leading the field with complex technological developments
- Significant product revenues

We will achieve this through 6 Strategic Imperatives:

### Scale & Grow

Protect and enhance the existing business. Grow the core; Scale into new sectors

### IP-Led Growth

Increase revenue from IP, products and services

### ESG meets EVP

Be great corporate citizens and a great employer

### Epic Innovation

Develop, enhance and monetise our varied technologies

### Build the Brand

Known as the go-to company for investors, employees, suppliers and clients

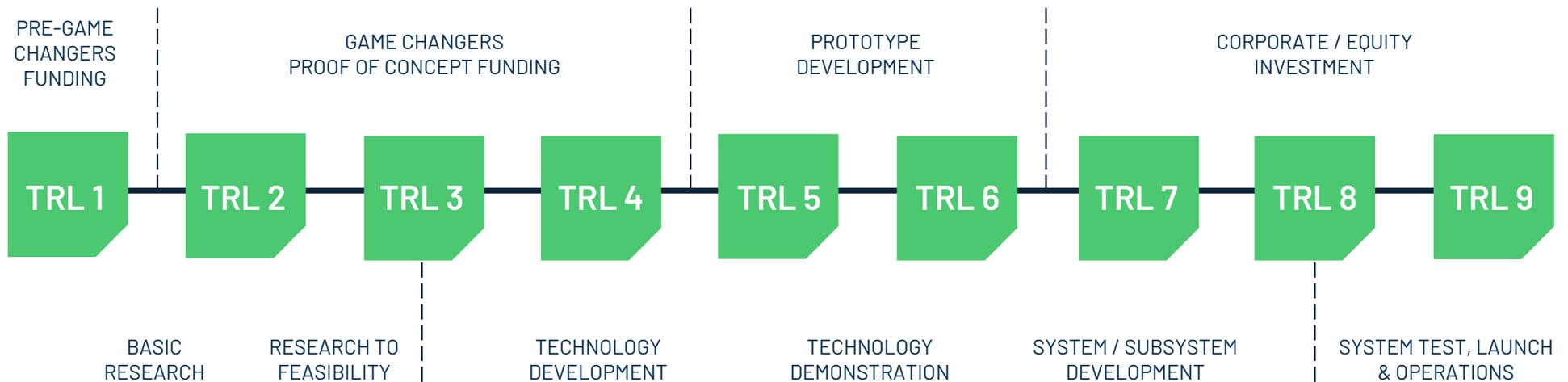
### Operational Excellence

Rebuild and simplify multiple existing, clunky, systems and processes

Our ambition is huge and our trajectory shows we can achieve it.

# Technology Readiness Levels (TRL)

Roke's strategy helps our clients move rapidly through the TRLs to deliver consistent and sustainable performance.



## Changing Worlds through innovation

### Precision Navigation & Timing

### Electromagnetic field monitoring

Wire detection

### Antenna design

### Signal processing

### Waveform development

5G

Complex systems

### Autonomous systems

### Edge processing

### AI - Image analysis

### Cyber assurance

Vulnerability research

### Agile software

Cloud computing

Data services

### Digital superiority

Horizon scanning

### AI - Neural networks

### AI - Deep learning

Acoustic sensors

Thermocouple diagnostics

Changing Worlds by shaping the future

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# OUR BUSINESS SECTORS



Defence



National Security

National Security

# CHANGING WORLDS THROUGH AN AGILE EDGE

Advanced security solutions

# National Security – Advanced Security Solutions



As a trusted partner to governments, we research, design and build solutions that protect and support our nation.



Our extensive expertise in developing bespoke software and hardware at scale within public and private infrastructure means we can both advise, deliver and support your organisation's digital transformation.



We've earned the confidence and trust of governments, agencies and organisations around the globe, helping to make the world a safer and more secure place for millions of people.

**ACCESS & OPERATIONAL CYBER**

**HIGH ASSURANCE CYBER PROTECTION**

**DIGITAL SUPERIORITY**

**THOUGHT LEADERSHIP & INNOVATION**

**OPERATIONAL PRODUCTS & SUPPORT SERVICES**

Defence

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# CHANGING WORLDS THROUGH A MISSION EDGE

World-leading defence solutions from Roke

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# Defence – We Are A Mission Partner to our Defence Clients



We generate Mission Systems by partnering with our clients to understand their challenges, and deliver 3 outcomes

Our global client engagement is aligned to three key threat drivers; Russia, China and Islamic Insurgency:

## Russian Threat Axis [Growth]

Nordics<sup>^</sup>

Baltics<sup>^</sup>

UK<sup>^</sup>

NATO (Poland\*)

## China Threat Axis [Scale]

Taiwan\*

Japan\*

US, AUS, NZ, CAN

South Korea\*

Singapore\*

## MENA Islamic Insurgency [Scale]

Egypt

UAE<sup>''</sup>

Qatar<sup>''</sup>

<sup>^</sup> = JEF Nations    \* = UK DIT DSE Trade Partner Focus    <sup>''</sup> = GCC Free Trade Agreement

## MILITARY CAPABILITY

Our product portfolio optimised to deliver operational advantage in the Electromagnetic Spectrum.

## DECISION ADVANTAGE

Advice consultancy and engineering services on how to operate within the Electromagnetic Spectrum to enhance; Lethality, Survivability and Interoperability to deliver Multi-Domain Integration.

## SCIENCE & INNOVATION

Within 6 core areas; Electronic Warfare, Survivability, Resilient Position Navigation & Timing, Integrated ISTAR, Digital Battlespace, AI & Analytics.

Defence

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# CHANGING WORLDS THROUGH A MISSION EDGE

Deep-Dive – Electronic Warfare products

**ROKE**

## Electronic Warfare

**Electronic Surveillance** to find the enemy &  
**Electronic Attack** to Deny, Degrade & Deceive



## Electronic Countermeasures

To protect personnel and increase their **Survivability**



## Resilient Position, Navigation & Timing

To protect platforms & payloads to achieve the mission and increase **Lethality**



# Electronic Warfare – Common software solution

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## VIPER PREFIX – Electromagnetic Environment (EME) Visualisation & Control

Monitoring, management and control of the Electromagnetic Environment (EME) using distributed, networked Roke and third-party EW sensors and effectors. Simple workflows to reduce information overload and focus on critical signals of interest. VIPER-PREFIX dramatically simplifies planning and operations using its time-based analytical interface, powered by sophisticated data fusion algorithms

- **EASY TO USE** – Evolved in conjunction with real-world users
- **ADAPTABLE** – updated every six months in-line with operational requirements
- **AT EW'S CORE** – common to all Roke's EW capabilities
- **MULTI-LEVEL** – View of EME at strategic and tactical levels to enable timely and informed decision making



# Electronic Surveillance

PERCEIVE – capturing, classifying and locating peer level threat radio systems

PERCEIVE is a high performance, compact networked Electronic Warfare (EW) sensor supporting high mobility, peer to peer operations. Unique as the first tactical wideband Electronic Surveillance (ES) system to incorporate complex algorithms to deliver Adaptive Digital Beamforming and Super Resolution Direction Finding technologies in harmony

- **LOCATION ACCURACY** – Combines Roke proprietary algorithms to deliver unparalleled geolocation accuracy in Azimuth and Elevation (C-UAS detect)
- **INTEGRATION** – Uses Roke’s proprietary Electromagnetic Environment visualisation tool in Prefix/Viper
- **INTEROPERABLE BY DESIGN** – supports both NATO and Five Eyes (UK, US, Can, Aus, NZ) FVEY enterprise level messaging formats
- **ADVANCED** – Workflows driven by advanced algorithms reduce cognitive and training burden



# Electronic Surveillance

RESOLVE – Signal Intelligence capabilities deployed in over 20 countries

RESOLVE is a flexible, field-proven EW Sensor designed for dismounted operations. It supports multiple deployment profiles – worn on the person during patrol, used in short-halt scenarios, or configured as an ad hoc vehicle fit

- **MODULAR** – Dismounted or mounted configurations
- **COMPATIBLE** – Compatible with Roke or other third-party Sensors or Effectors
- **INTEGRATED** – integrated with Samsung S23 handheld & ATAK, plus Roke’s proprietary Electromagnetic Environment visualisation tool in Prefix/Viper
- **NETWORK AGNOSTIC** – Uses any IP-based networking supporting User in-service communications bearers



# Electronic Attack

DECEIVE—multi-role, multi-function CEMA system

The modern operating environment is dynamic. Conventional, single use platforms are not always capable of adapting at the pace of User need. Em-Vis Deceive is a modular, application driven CEMA capability that is rapidly and cost effectively reconfigurable to address the challenges of a modern, peer to peer conflict.

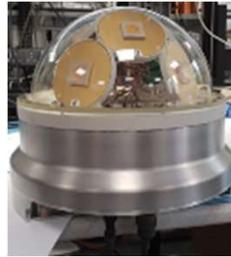
- **MODULAR** – By design, supporting reconfiguration, maintenance and evergreen approach to in-service life
- **OPEN STANDARDS** – ‘OpenCPI’ enables full spectrum EW Applications to be developed in a virtual environment
- **SCALABLE** – supports dismount, mount and static roles with easy reconfiguration
- **UPGRADEABLE** – Swap-in / Swap-out of software defined radios to address emergent frequencies, threats or roles



# Resilient Position Navigation & Timing (RPNT) Emergent Products



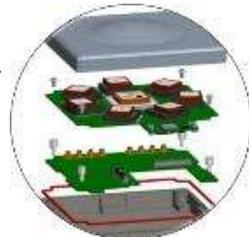
Use Case: Global Combat Air Programme (GCAP - UK, Japan, Italy)



Satellite Signals of Opportunity (SatSoOp)



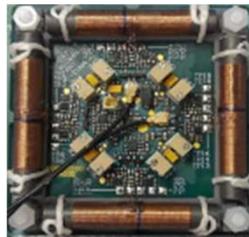
- Unique in providing compare/contrast from multiple satellite constellations
- Provides assurance that platform is not being spoofed/jammed by an adversary
- Demonstrated in Land, Maritime and Air



Controlled Radiation Pattern Antenna



- Anti-jam, anti-spoof antenna for drones (Air) land and maritime platforms
- Volume production in 2025
- Global applicability as a COTS product



eLoran Miniature Receiver & Antenna



- Antenna and Receiver
- UK & Export markets
- Global applicability as a COTS product

## Acquisition of Landguard - building our product portfolio

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- » Landguard, a leading Software Defined Radio and surveillance company, acquired June 2025 for up to £20m
- » Delivers specialist intelligence, surveillance, target acquisition and reconnaissance (“ISTAR”) custom radio systems to government, defence and law enforcement customers across the world, enabling them to track, locate and protect their crucial operational assets
- » Enhances Roke’s offering with key adjacent technologies that align to both Roke’s National Security and Defence CEMA strategies, offering new market access points where customers are showing strong demand requirements
- » Complements and strengthens the high barriers to entry within Roke’s business model. Adds numerous highly experienced and security cleared RF engineers, expands product range and accelerates Roke’s IP-led growth strategy



FY25 Revenue ~£7m, 47 employees located in Fareham U.K and Tampa, U.S

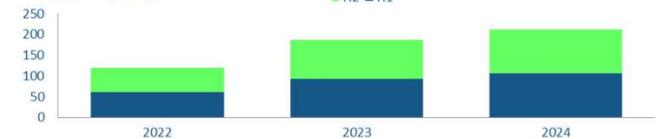
# Summary

- » Significant strategic progress in Roke’s product business underpins long –term growth - >£300m 5 year international sales pipeline for EW products
- » As previously guided, near-term softness in National Security as a result of SDR, but no evidence of Roke programmes either being lost or cancelled - Roke well positioned to capitalise on contract renewals and customer funded R&D
- » Multiple priorities identified in SDR create significant opportunities for Roke:
  - >£1bn investment in digital targeting web to integrate AI, sensors, and precision weapons
  - Establishment of CEMA Command to unify cyber, EW and information operations
  - £400m annual fund to drive innovation in cyber technologies

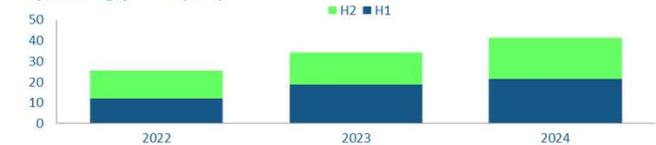
Roke remains on track to grow 2028 revenue to >£250m pa, whilst maintaining strong margins

## Sensors & Information

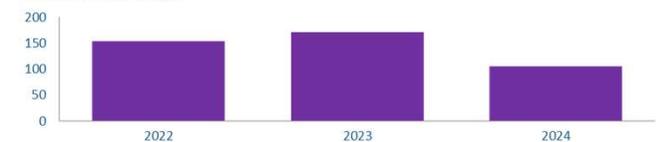
Revenue (£m)



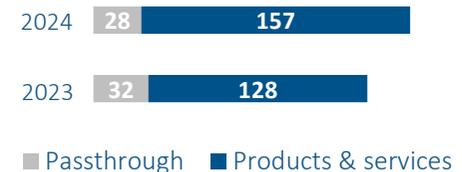
Operating profit (£m)



Order book (£m)



## Breakdown of Roke revenue (£m)

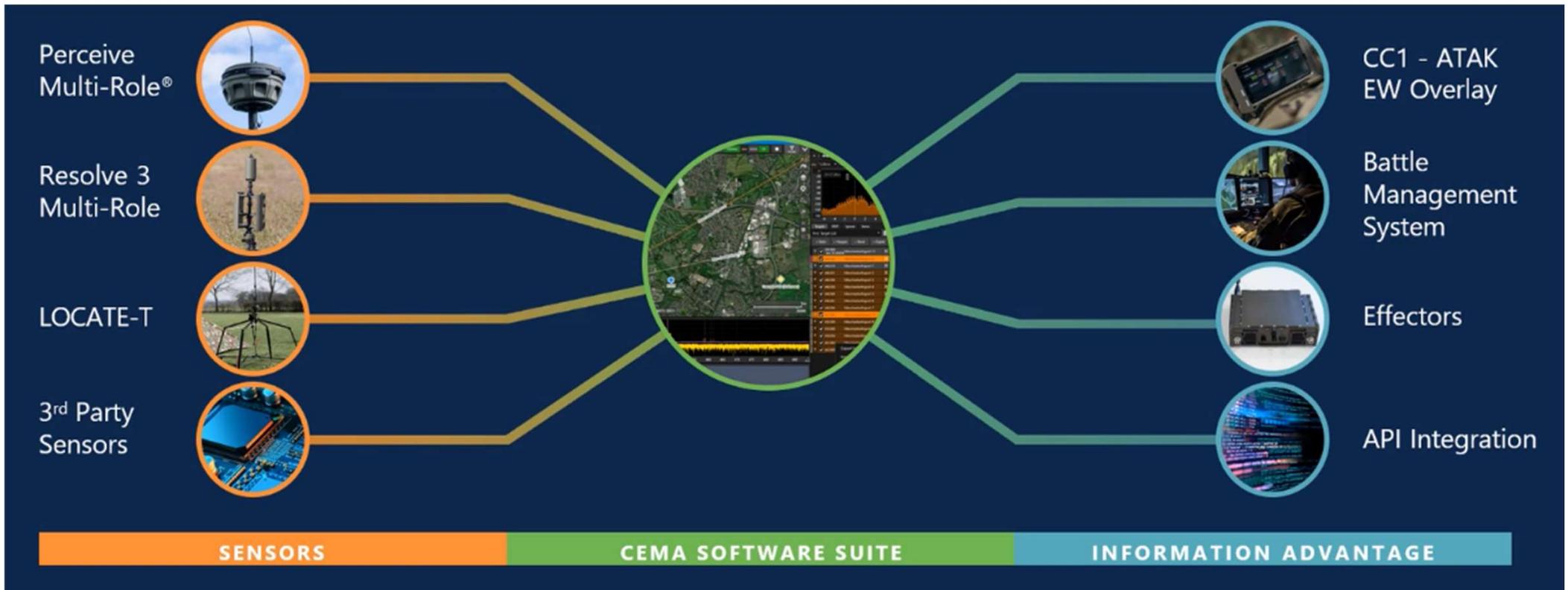


**ROKE**

Thank You



# Our Defence Products - Integrated by Design



Family of sensors & effectors integrated with a single, mission management, situational awareness and command and control software suite

NB: CEMA - 'Cyber ElectroMagnetic Activities'