



JOINING THE DOTS TO CONNECT THE UK ELECTROMAGNETIC INTELLIGENCE FOR DEFENCE & HOMELAND SECURITY

The UK has invested significantly in RF sensing capability across multiple departments. However, this infrastructure is procured and operated in silos, limiting interoperability, shared situational awareness, and national resilience.

CRFS can rapidly meet this strategic need. COTS technology deployed on existing infrastructure with minimal integration work will provide the UK with federated electromagnetic sensing architecture.

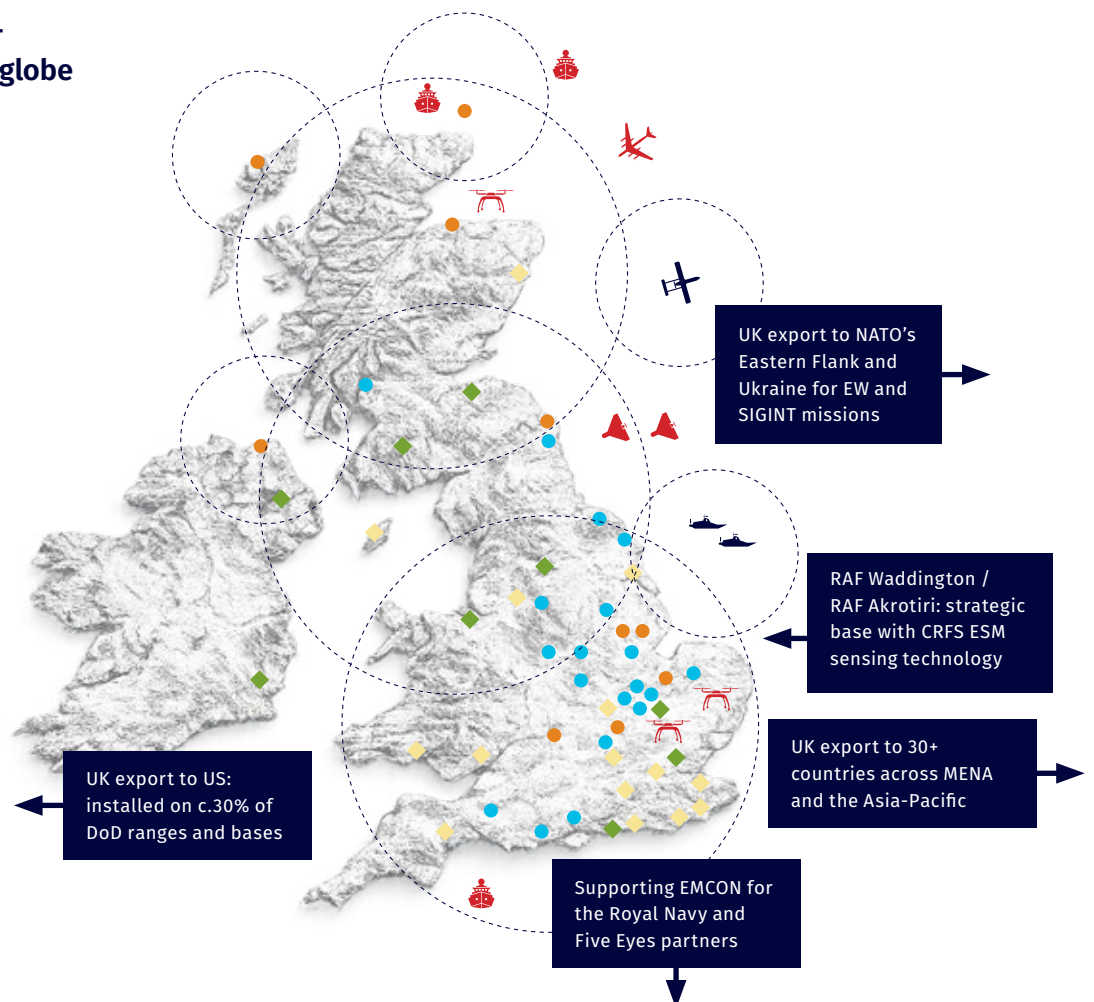
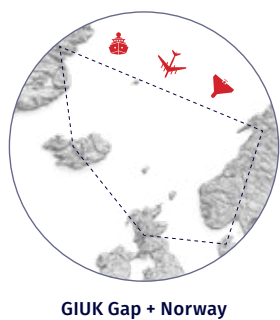
- Border & maritime awareness
- CNI protection
- Drone detection
- Airspace & IAMD augmentation

Multiple government agencies including the MOD, Dstl, RAF, British Army, GCHQ, DEMA, and DSIT use RFeye technology for critical signals intelligence.

Joining the dots, coordinating the departments, and connecting the sensors will allow the UK to create a national resilient sensor network that can be used for defence, security research, and innovation.

One sensor, many uses — in the UK and across the globe

- UK air defence**
 - Existing
 - Strategic additions
 - UK air defence coverage
- Homeland security**
 - ◆ Policing & airports
- National R&D network**
 - ◆ Joiner Network



The Joiner Network

CRFS has already demonstrated the ability to connect distributed RF sensors across 15+ UK world-leading universities and research labs, securing secure, scalable national-level sensor federation.

Rapidly deployable aerial assets

This architecture is not limited to fixed infrastructure. RFeye technology can be integrated into rapidly deployable aerial assets.

RFeye Nodes have successfully been integrated into Schiebel's CAMCOPTER® S-100 (VTOL UAV), and TEKEVER's AR3 EVO and are currently in active deployments.



Delivering national electromagnetic resilience requires sovereign, secure, and assured supply chains.

- TRL-9 technology
- Designed and manufactured in Cambridge, UK
- Global supply chain de-risked from China
- <69% total needs are UK-sourced / supplied
- Core line RCBS manufactured in the UK and Finland
- 6–12 months raw material components held in stock
- Signatory to the Armed Forces Covenant

Key CRFS projects



TEKEVER and CRFS launch UAS with an ultra-sensitive RF receiver as a payload



CRFS RFeye Nodes chosen to power UK spectrum research infrastructure



CRFS demonstrates advanced SIGINT capabilities during the REPMUS experimentation exercise

CRFS equipment used



RFeye Node

Portable and rugged high-performance RF sensor



RFeye Site

For real-time spectrum monitoring and geolocation using 3D-TDoA and signal detectors



Discuss rapid deployment via COTS routes



EXTRAORDINARY
RF TECHNOLOGY

CRFS is an RF technology specialist for defense, national security agencies and systems integration partners. We provide advanced capabilities for real-time spectrum monitoring, situational awareness and electronic warfare support to help our customers understand and exploit the electromagnetic environment.



CRFS Inc
Reston,
VA, USA
+1 571 321 5470

CRFS Ltd
Cambridge,
United Kingdom
+44 (0) 1223 859 500

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