

# ALL DOMAIN PRECISION AND SPEED



UK SOVEREIGN AI

Machine Learning  
for Defence and  
National Security



Machine-speed decision support  
Designed for deployment

#### OUTCOME FOCUSED PRODUCTS

- **Sentry** | Sensor Fused Intelligence
- **Nightingale** | Full Tonal Analysis
- **Technical Services** | Integrations, R&D + Consultancy

Mind Foundry works in collaboration with customers and partners across operational domains to deliver targeted impact in challenging environments through deployed Machine Learning systems.

Our technology is engineered for high-stakes situations where outcomes carry real-world consequences, black-box AI is not fit for purpose and full automation is neither feasible nor desirable. Our Machine Learning products augment and enhance the human decision-making loop.

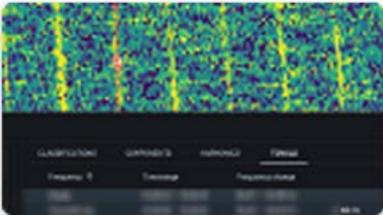
# SETTING THE STANDARD FOR DETECTION, CLASSIFICATION AND TRACKING FOR DECISION SUPERIORITY.



## SENSOR FUSED INTELLIGENCE

### SENTRY

Machine-fused strategic awareness for tactical advantage with interoperable, multi-sensor fusion.



## FULL TONAL ANALYSIS

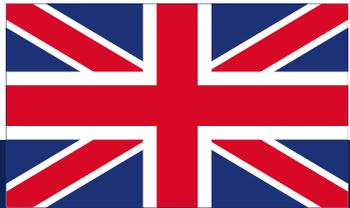
### NIGHTINGALE

Machine-speed acoustic advantage with automated full tonal auditing for fast, actionable intelligence.

## R&D + CONSULTANCY

### TECHNICAL SERVICES

Our security compliant, forward-deployable and highly skilled Machine Learning Scientists and Engineers are experts in integrating capability within collaborative deployments and programmes of work.



## UK SOVEREIGN AI

# Leading the Machine Learning Evolution for Warfare and Deterrence



## Machine precision

From anti-submarine warfare to counter-UAS, our AI fuses human intelligence with machine accuracy to improve decision-making and performance.

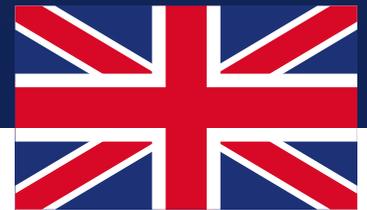
## Human-machine teaming

Our solutions don't replace people; they enhance their capabilities. Designed with operators and by operators - trust is a key factor improving outcomes and securing advantages in the most demanding situations.

## Machine speed

Designed for deployment at the tactical edge, our systems build trust through intuitive and explainable interfaces that enable seamless human-machine teaming at mission speed.

# MACHINE-FUSED SENSOR DATA FOR MARITIME ADVANTAGE



## SENTRY | ASW

Mind Foundry Sentry is a multi-sensor fusion product designed to transform how teams observe, understand and respond to threats.

Built for command, operators and analysts who need enhanced, real-time situational awareness across the battlespace. Sentry fuses data from multiple sensors into a single, evolving picture - delivering clarity, continuity and actionable insights to support faster, smarter decision-making.

## UK SOVEREIGN AI

Sentry's flexibility makes existing hardware and C2 software work smarter. Automating track creation and management workflows, Sentry fuses information from all vessel arrays across all octaves and integration rates, providing C2 with a sustained single coherent operating picture of objects of interest.

### OPERATIONAL IMPACT

- Reduced cognitive load and increased situational awareness
- Enhances surveillance and observation
- Elevates reporting and communication

### HUMAN-MACHINE SENSOR FUSION

*"C2 need multiple pieces of validation to understand how sure we are in our contact investigation. Confidence comes from many small measurements."*

Ex-Senior Royal Navy Officer

# SENTRY | ASW



Providing C2 with machine-speed strategic awareness,  
enhancing operational and tactical advantage at sea.

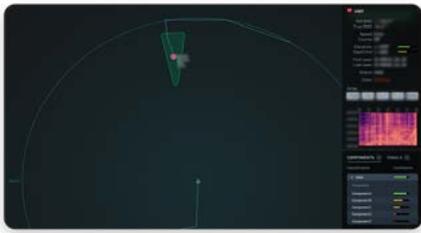
Fusing every sensor to empower every decision.



## FEATURES

01

Real-time Fusion



02

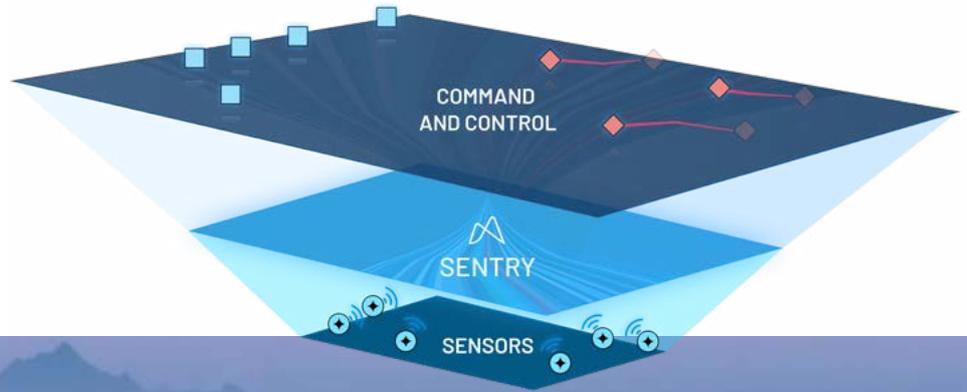
Mission-ready Interoperability

03

Multi-object Tracking

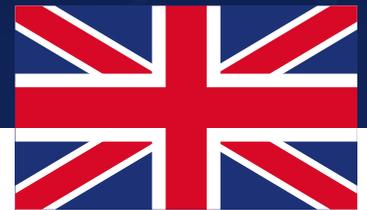
04

Layered Threat Awareness



SENTRY

# MACHINE-SPEED ACOUSTIC ADVANTAGE



**UK SOVEREIGN AI**

## NIGHTINGALE

**Mind Foundry Nightingale transforms clarity in maritime environments with automated full tonal analysis for fast, actionable intelligence.**

Built for Warfare Specialists working with acoustic sensors, Nightingale accelerates tonal analysis and the prioritisation of threat signatures.

With explainable, adaptable, near real-time insights responding to dynamic operational requirements,

Nightingale helps new and experienced operators resolve ambiguity instantly and maintain full situational awareness. By integrating advanced Machine Learning into existing systems, it reduces cognitive load, enhances decision speed, and improves trust in outputs.

### OPERATIONAL IMPACT

- Reduced cognitive load
- Faster detection, classification prioritisation
- Enhanced situational awareness

### HUMAN-MACHINE ACOUSTIC INTELLIGENCE

*"It typically takes a sonar operator 14 years to become an expert user. Nightingale doesn't just help new operators achieve the same level of expertise in a fraction of that time, it also helps expert operators do their work faster."*

Senior Royal Navy Officer

# NIGHTINGALE



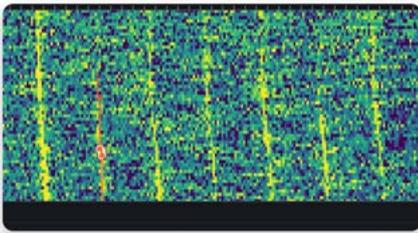
Providing Warfare Specialists with machine-speed tonal analysis, enhancing operational decision-making and reducing time to classification.



## FEATURES

01

Full Tonal  
Audit



02

Component  
Referencing



03

Auto  
Watch

04

DEMON  
Analysis

05

Aural  
Classification



 NIGHTINGALE