

ESPANARO

UK SOVEREIGN DEFENCE & TECHNOLOGY

Sovereign Engineering for the Digital Targeting Web

A modular, UK-sovereign mission-data, command-and-control and secure integration layer, connecting, governing, prioritising, visualising and sharing mission data across people, systems and partners.

THE CHALLENGE

The barrier is rarely a lack of data. It is fragmentation.

Fragmented mission data

Sensors, systems and feeds sit in silos, so operators rebuild the picture manually instead of acting on it.

Slow decision cycles

Disconnected tools and screens stretch the time from detection to decision when speed matters most.

Uncontrolled sharing

“Send a copy and hope” breaks releasability, handling caveats and audit the moment data leaves a system.

Vendor lock-in

Single-vendor stacks force rip-and-replace and prevent reuse of sensors and systems already in service.

OUR CONTRIBUTION

The sovereign layer that connects the critical parts.

Espanaro does not claim to replace every MOD system, sensor or targeting tool, or to deliver the whole Digital Targeting Web enterprise alone. Our role is to bring the critical parts together.

Connect

Bring fragmented sensors, systems and feeds into one operational view.

Govern

Keep classification, releasability and access policy with the data.

Prioritise

Surface anomalies and behaviour that matter, cutting operator noise.

Visualise

Present a common operating picture and record the decision chain.

Share

Move secure data products across people, systems and partners.

Deploy

Operate inside customer-controlled cloud, on-prem, hybrid or edge.

THE STACK

One connected platform ecosystem

Modular components, usable independently, coherent together.



Consilium

Command & control · common operating picture



ByteHarbour

Data-centric secure sharing · releasability



Harbour Guard

Attribute-based access control · policy



Pulse Sentinel

Distributed anomaly detection



Cognisight

Behavioural AI video & model catalogue



WayForge

Mission planning & UGV deployment



RibbonFlow

Secure machine-to-machine orchestration · enabling layer

DIGITAL TARGETING WEB

A narrow, credible slice. Proven, not promised.

Rather than overpromising an enterprise DTW, we demonstrate a bounded but complete slice: ingest representative feeds, govern access, show the operational picture, record the decision chain and share the resulting data product securely.



INTEGRATION-FIRST

Open standards, reused infrastructure, no lock-in.

SAPIENT & TAK

Integration routes for standardised sensor management and tactical awareness, referenced where accurate.

API-led architecture

Modular adapters and API integration into existing customer systems, sensors and operational platforms.

Deploy where needed

Cloud, on-premise, hybrid or edge patterns, inside customer-controlled security boundaries where required.

Reuse, don't replace

Existing sensors, cameras and systems are reused, enabling modular growth rather than rip-and-replace.

C-UAS integration route

A solution architecture, not a single product, combining Espanaro components with partner sensors and effectors into a UK-sovereign counter-drone response.

EVIDENCE

Demonstrated in operationally relevant settings.

Maturity varies by component. We are explicit about where each capability stands, evidence packs available once cleared for release.



Consilium

Command & control

Demonstrated in a live, operationally relevant environment through an extended live trial.



Pulse Sentinel

Anomaly detection

Demonstrated at TRL 6 through an SDE Architecture demonstration.



WayForge

Mission planning & UGV

Trialled in a live operational environment, including nuclear-relevant use.



ByteHarbour

Secure data sharing

Working prototype with integration-trial evidence, including CWIX-style integration.



Cognisight

Behavioural AI video

Active development with a catalogue route, pilot-ready for defined use cases.



Harbour Guard

Access control & policy

Integration-trial evidence at an early maturity level.

WHY ESPANARO

Sovereign, modular, integration-first.

UK sovereignty

A UK-sovereign mission-data, C2 and secure-integration specialist.

Modular architecture

Add capability incrementally, no single-vendor lock-in or rip-and-replace.

Integration-first

Reuse existing sensors and systems, connect rather than replace.

Secure data control

Classification, releasability and access travel with the data.

Open partner model

Bring the best sensors, effectors and delivery partners to the mission.

Customer-controlled

Deploy inside the customer's own security boundary, cloud to edge.

The product is not the starting point. The mission problem is. We select, configure and integrate the right components for the operational requirement.

ESPANARO

START WITH THE MISSION PROBLEM

The problem defines the architecture.

Take a defined operational problem and select, configure and integrate the right components against it, agnostic to existing sensors and systems, deployed inside the customer's own security boundary.

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