



See the unseen.
Track the impossible.
Stay on mission.

UK sovereign software that extracts more from existing sensors to cut through operational uncertainty, deliver decision advantage, and maintain capability in the most demanding conditions.



VOYANT TRACKING

Creates & Maintains
Reliable Tracks.



VOYANT FUSION

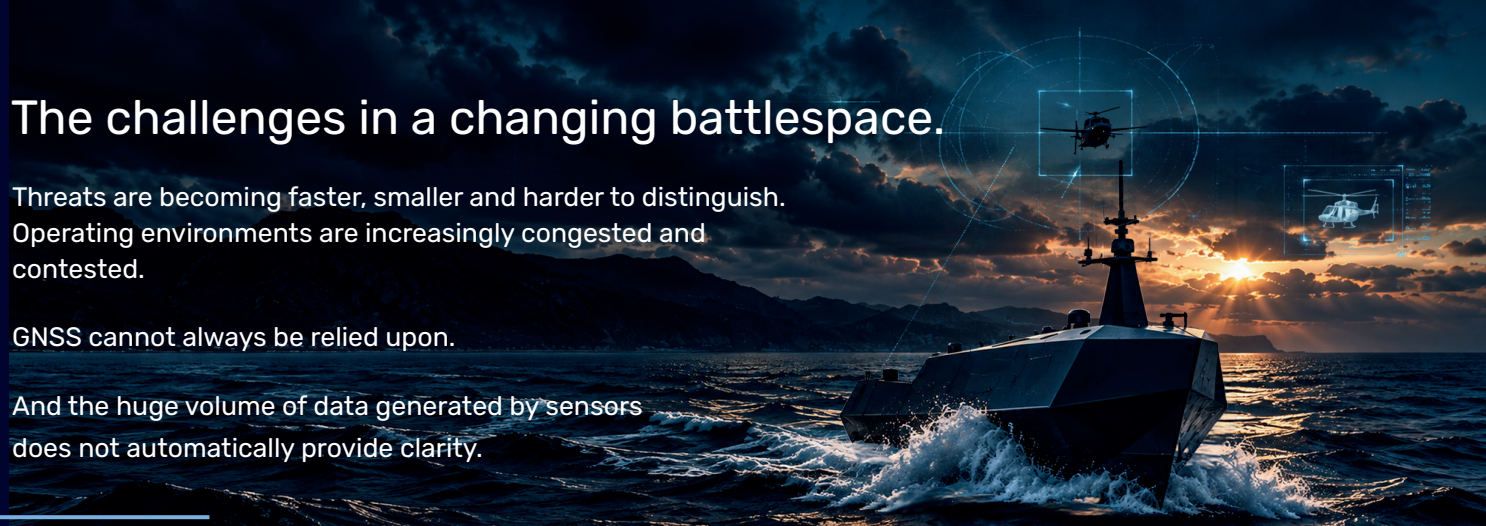
Fuses Data from
Multiple Sensors.



VOYANT NAVIGATION

Delivers Resilient PNT
when GNSS is Denied.

The challenges in a changing battlespace.



Threats are becoming faster, smaller and harder to distinguish.
Operating environments are increasingly congested and contested.

GNSS cannot always be relied upon.

And the huge volume of data generated by sensors
does not automatically provide clarity.

How Voyant helps

We have developed advanced software that extracts richer information from the sensors you already have, and fuses data from multiple sources into a clearer, trusted operational picture so you can:

SEE MORE.

Detect earlier, track more reliably and classify with higher confidence from existing sensor data.

KNOW MORE.

Combine information from radar, sonar, EO/IR, EW and other sources into one coherent operational picture.

NAVIGATE WITHOUT GNSS.

Maintain accurate positioning when satellite navigation is unavailable, degraded or denied.

Built for uncertainty.

Conventional tracking, used for decades within defence, works well when targets and measurements behave predictably. Operations rarely do.

Targets manoeuvre. Signals fade. Sensors disagree. Environments become cluttered.

That's where our technology comes into its own.

Built on more than 20 years of research at the University of Liverpool, our advanced probabilistic tracking and data-fusion software is designed to maintain performance in environments where legacy approaches struggle.

A conventional tracker commits to a single best guess. Particle filters consider multiple possibilities, making full use of uncertain, incomplete and conflicting sensor data. Our particle-filter expertise means we can apply this filtering approach more intelligently across sensors and platforms to stay within the power and compute limits of edge systems.

Richer information:

more from existing sensors

Robust tracking:

in complex, cluttered environments

Efficient compute:

deployable at the edge, on a range of platforms

Open & agnostic:

works across sensors and platforms

Our software enhances capability without replacing sensors or platforms.



From research to operational environments.



SONAR ENHANCEMENT

Voyant has successfully demonstrated how advanced software can unlock significantly greater capability from existing sonar systems as part of a UK Ministry of Defence Programme to strengthen anti-submarine warfare operations.

Working alongside the Ministry of Defence, the Royal Navy, Thales UK, and Mind Foundry, Voyant integrated its proprietary probabilistic tracking and particle-filter software with Thales' S2087 sonar system to improve the exploitation of acoustic sensor data, providing richer information for downstream AI-enabled Mind Foundry's decision support system.

This enables operators to build a clearer operational picture, maintain higher-confidence tracks and make faster, more informed decisions.

Ready to see what your sensors could do? Talk to us about sensor enhancement, data fusion, and resilient navigation. Reach us at info@voyant.vision / +44 151 404 3089



GNSS-DENIED NAVIGATION

Voyant has successfully demonstrated its advanced navigation software to the UK Ministry of Defence (MOD), marking an important step in the development of resilient Position, Navigation and Timing (PNT) capabilities for autonomous maritime systems operating in contested environments.

In a real-life scenario, this capability would enable autonomous systems to continue navigating when satellite navigation has been lost or deliberately denied, supporting mission completion and the safe recovery of valuable assets.



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