

AI Asterion | NexusCore

The Operating Intelligence for Manufacturing

One mind across every module — catching problems before they collide with the line.



EXECUTIVE SUMMARY

NexusCore is the horizontal brain that binds every Asterion module into one live operational picture for manufacturing sites. It watches every asset, work order, contract, incident and crew shift — and acts before they collide.

-  It holds the state of contracts, assets, reliability, shutdowns, inspections, safety, ESG and workforce as one continuously updated view.
-  It detects the cross-module risks that no single team or system can see — the signals that live in the spaces between silos.
-  It owns the follow-up, replans in real time, answers in plain English and records the reasoning behind every action.

THE ORCHESTRATION GAP

Specialist modules solve specialist problems. Operations are a single problem — and the risk lives between the views.

-  Specialists, not a system — nine views of the same operation, with the connective tissue left in spreadsheets, emails and people's heads.
-  Signals lost between silos — safety, contracts, reliability and workforce each emit early warnings none of the others can see.
-  A reaction-time tax — by the time a problem surfaces in a stand-up, it has already collided with the work it disrupts.

WHAT NEXUSCORE ENABLES

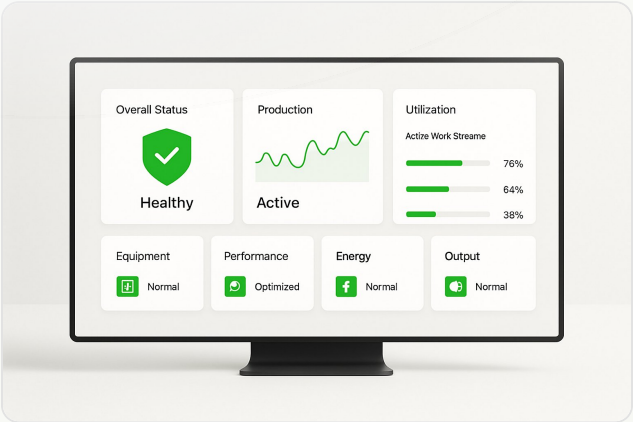
-  A single live picture of contracts, assets, reliability, safety and workforce
-  Automatic detection of cross-module risks before they reach production
-  Tireless follow-up on every overdue task and unresolved risk
-  Real-time replanning when crews, parts or conditions change
-  Plain-English answers for any stakeholder, on any channel
-  A sourced, auditable record behind every decision

TYPICAL OUTCOMES

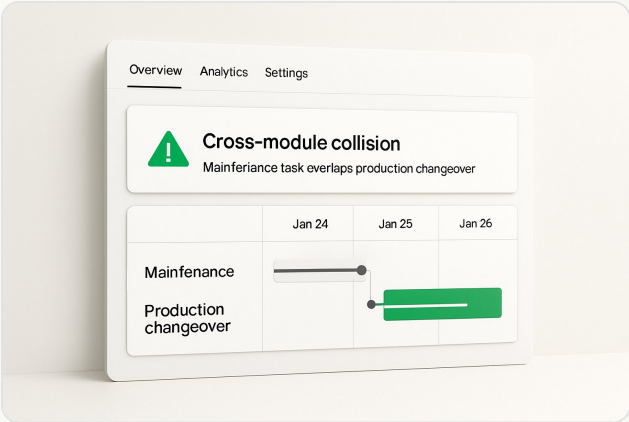
-  Fewer line stoppages caused by missed cross-team signals
-  Late decisions caught before the next stand-up
-  Contract and certification gaps closed before mobilisation
-  A defensible governance trail from end to end

Six disciplines. One brain.

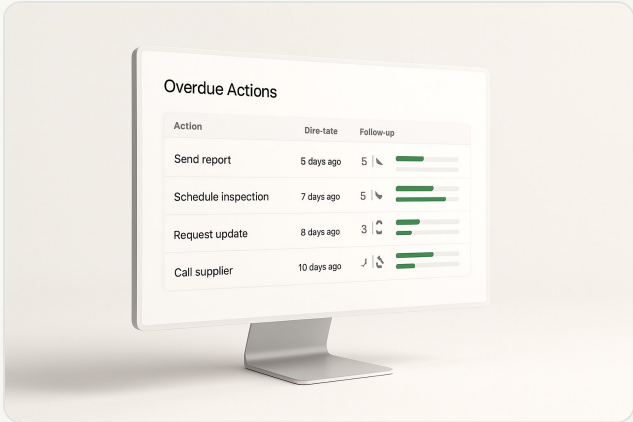
Every module's state, held as one live operational picture — monitored, correlated and acted on continuously, without anyone having to ask.



1 Unified operational state



2 Cross-module collision detected



3 Escalation & follow-up tracker

WHAT THE BRAIN DOES

- 1 Sees the whole picture, continuously — every module as one live state
- 2 Catches problems before they become problems — cross-module collisions
- 3 Owns the follow-up — chased through WhatsApp, SMS, voice or email
- 4 Replans in real time when crews, parts or conditions change
- 5 Speaks plain English — grounded, sourced answers in seconds
- 6 Explains itself — every action recorded with its reasoning

BUILT FOR REGULATED, AUDITED OPERATIONS

- ✓ ISO/IEC 27001 — information security management
- ✓ ISO/IEC 42001 — AI management system
- ✓ ISO 55000 — asset management
- ✓ NIST AI RMF — AI risk management framework
- ✓ SOC 2 Type II — trust services criteria
- ✓ Per-tenant isolation for multi-tenant sites

Manufacturing, orchestrated.

On a manufacturing site the early warnings are already there — in reliability data, inspection queues, safety logs, contracts and crew rosters. NexusCore connects them and acts before they reach the line.

CROSS-MODULE SIGNAL		NEXUSCORE RESPONSE	
1	 Predicted line-critical failure ReliCore flags a bearing degrading on a packaging line	→	Re-plan the fix into the next changeover window
2	 Overdue service on a running asset AssetVault shows a service past due on a live machine	→	Schedule it before it forces an unplanned stop
3	 Inspection finding left open Inspecta raises a defect on a shutdown-critical unit	→	Block the shutdown until it is resolved
4	 Incident on an active cell SHREQ360 logs a safety incident on a running line	→	Gate the affected work automatically
5	 Key operator unavailable CrewOptix shows a certified operator off before a critical task	→	Find a qualified alternative before the gap becomes a delay
6	 Contractor agreement lapses LexSphere flags an expiry three days before mobilisation	→	Escalate to renew before the crew arrives
7	 Contract obligation falls due A LexSphere obligation maps to plant work	→	Trigger the work order automatically
8	 Reporting data left open Operational records behind ESG reporting are unreconciled	→	Chase closure so ESG Beacon reports current data



One mind across the plant floor

 **WHAT MANUFACTURING TEAMS GAIN**

 More uptime on critical lines

 Faster response to cross-team risk

 Start-date certainty

 Auditable decisions, end to end

 One picture across every module

One picture. Many **vantage points**.

The same brain, the same picture — seen from wherever each stakeholder stands, from the boardroom to the plant floor.

 WHO IT SERVES

-  Site & operations leadership — a continuously reconciled view of every active operation, before stand-up rather than after.
-  Shutdown & project managers — a critical path informed by every signal that could derail it, replanned as those signals change.
-  Safety, compliance & audit — every escalation explained, every decision sourced, every action traceable.
-  Executive & board — ask in plain English, get a grounded, current, sourced answer in seconds.



15%+

maintenance cost reduction

24/7

continuous cross-module reasoning

1 system

above all your others



CLARITY ACROSS EVERY MODULE. CONTROL ACROSS EVERY OPERATION. CONFIDENCE THAT NOTHING IS BEING MISSED.