

Making Better Decisions Early

Hardium helps complex nuclear and high-hazard programmes make better decisions before risk becomes embedded into cost, schedule, operational or regulatory reality.

THE REALITY GAP

Major programme difficulties rarely emerge from a single discipline in isolation. They typically emerge in the gaps between:

-  **Engineering and operations**
-  **Governance and delivery**
-  **Technical maturity and programme ambition**
-  **Organisational capability and delivery pressure**
-  **Safety logic and operational reality**
-  **Assumptions that were never independently challenged**

This allows Hardium to identify:

- ✓ hidden interface risks
- ✓ weak assumptions
- ✓ organisational disconnects
- ✓ false delivery confidence
- ✓ governance gaps
- ✓ capability shortfalls
- ✓ programme reality gaps

Before they develop into larger operational, commercial or regulatory problems.

WHAT HARDIUM DOES

Hardium provides integrated assurance and reality-testing reviews across the interacting dimensions that most commonly drive hidden programme risk, delay, rework, cost escalation and regulatory friction.

We independently test:

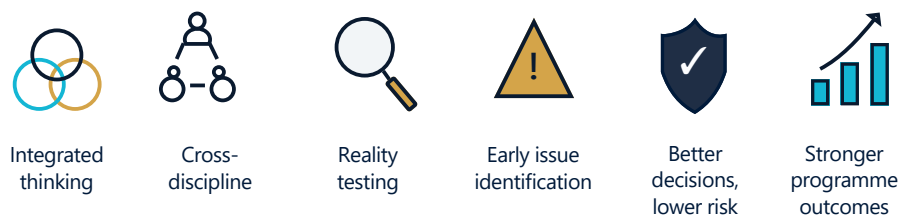


The objective is not to create additional consulting overhead, but to provide early clarity and independent judgement before issues become embedded into programme execution.

THE HARDIUM DIFFERENCE

Most organisations assess programmes through individual silos.

Hardium deliberately looks across the interactions between those functions.



Start with a 30-minute reality check.



HARDIUM

www.hardium.co.uk

Clarity where consequences matter.
Judgement you can trust.
Assurance you can act on.

Hardium Assurance Domains

A structured view of the integrated assurance and reality-testing areas Hardium applies to complex nuclear and high-hazard programmes.

01 LEADERSHIP, KNOWLEDGE & ORGANISATIONAL ASSURANCE



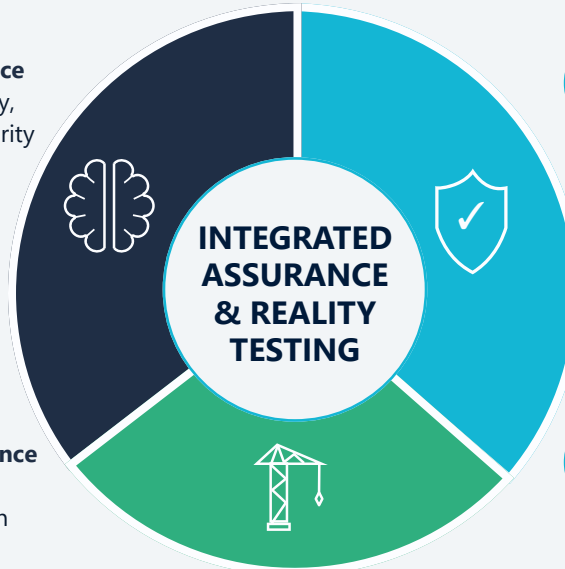
Knowledge, Learning & Technical Authority Assurance
Evaluating knowledge integrity, lessons learnt, technical authority and knowledge retention.



Leadership, Governance & Decision Assurance
Assessing leadership quality, governance effectiveness and decision robustness.



Organisational Capability & Human Performance Assurance
Reviewing capability, culture, competence, SQEP and human performance factors.



02 SAFETY, TECHNICAL & OPERATIONAL READINESS ASSURANCE



HSSEQ & Safety-Critical Systems Assurance
Testing safety logic, hazard controls, barriers and critical system performance.



Technical Maturity & Operational Readiness Assurance
Assessing technology maturity, design integrity and readiness for safe operation.



Programme Maturity & Investment Readiness Assurance
Evaluating programme maturity, stage-gate readiness and funding confidence.

03 DELIVERY, INTEGRATION & REGULATORY ASSURANCE



Commercial, Supply Chain & Interface Assurance
Assessing commercial strategy, supplier performance and critical interfaces.



Engineering Integration & Delivery Assurance
Reviewing engineering integration, delivery plans and execution confidence.



Regulatory Alignment & Nuclear Safety Culture Assurance
Assessing regulatory alignment, compliance defensibility and the strength of nuclear safety culture.

TYPICAL APPLICATIONS

- programme uncertainty
- complex interfaces
- changing requirements
- major investment decisions
- operational readiness concerns
- organisational capability growth
- regulatory pressure
- delivery confidence concerns
- integration challenges
- safety-critical change
- technology scale-up
- or long-duration programme complexity

TYPICAL OUTPUTS

- independent programme reality assessments
- leadership briefings
- readiness reviews
- technical maturity assessments
- governance and interface mapping
- organisational capability reviews
- assurance improvement recommendations
- critical risk and assumption reviews
- prioritised intervention actions
- integrated programme confidence assessments

WHY ORGANISATIONS CHOOSE HARDIUM

- Independent and challenged
- Deep nuclear and high-hazard expertise
- Cross-disciplinary and systems thinking
- Senior advisers with real-world experience
- Bespoke to your programme context
- Focused on early clarity and decision confidence
- Practical, actionable and outcomes-focused

SECTORS

- Civil nuclear
- Defence nuclear
- Fuel cycle
- Decommissioning
- Fusion
- Pharmaceuticals
- COMAH
- Advanced manufacturing
- Critical infrastructure
- Other complex high-hazard industries



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