Asset Intelligence

THE ASSET INTELLIGENCE FRAMEWORK

Asset Intelligence Value Realisation Model

PART OF	**The Asset Intelligence framework: Thesis, Definition, Architecture, Maturity Model, Adoption Model, Value Realisation Model**
EDITION	**Edition 1**
PUBLISHED	**18 November 2026**
PERMANENT ADDRESS	**https://assetintelligencediscipline.org/framework/value-realisation-model**
CREATED BY	**Glider Technology Limited**

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Asset Intelligence Value Realisation Model, Edition 1, 18 November 2026

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1. Purpose

The Architecture defines what Asset Intelligence requires. The Maturity Model describes how far an organisation has got in practising it. The Adoption Model sets out what to do next. This document answers the question none of them answers: where does the value come from, when does it arrive, who captures it, and why does it compound?

The model serves the people who decide whether the discipline gets funded and the people who build the case. The board and executive get the reason the discipline's economics differ from a conventional technology purchase. The finance director gets an investment and return structure that can be tested. Estates and FM leadership get the value levers that matter to their stakeholders, by role and time horizon. Practitioners get the language that connects the discipline's outcomes to the decisions their organisations already have to make.

2. The outcomes Asset Intelligence enables

Start with what the C-suite is trying to achieve. Asset Intelligence is worth investing in because it moves the outcomes a board already cares about:

- **Reduce operating cost.** Less reactive maintenance, less duplicated survey and rediscovery, more planned and procured work.
- **Reduce carbon.** Credible net-zero baselines and intervention decisions grounded in performance evidence, not assumption.
- **Comply with legal, safety and regulatory obligations.** Building Safety Act, fire safety, the Golden Thread, statutory inspection and maintenance regimes, environmental reporting, and the wider legal obligations that attach to operating a building across its life, all evidenced rather than asserted.
- **Improve decision-making, better and faster.** Capital allocation, disposal and refurbishment decisions made on governed data, and made sooner.

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- **Reduce workforce friction.** Engineer and team productivity from faster access to accurate information, and the retention that follows from systems that help rather than hinder.
- **Sustain asset value.** Whole-life cost optimisation, total cost of ownership visibility, and stronger disposal and transaction value.

The rest of this document explains how those outcomes are produced (the four mechanisms, Section 4), who captures them and when (Section 5), and why they grow over time (Section 6). For the full articulation of the four outcome domains the value serves (Environmental, Social, Safety, Economic), see the Definition.

3. The investment and return asymmetry

Asset Intelligence has a structural commercial challenge. Most of the cost is front-loaded: defining information requirements, capturing asset data, establishing governance. Most of the value is back-loaded: better decisions, lower maintenance cost, regulatory confidence, strategic insight, realised across decades of operation.

This asymmetry is why most organisations underinvest. The people who fund information structuring are often not the people who benefit. The construction team that captures information at handover bears the cost. The estates team that operates the building for thirty years takes the return. The finance director who approves the spend sees the cost now and the benefit gradually.

If Asset Intelligence were a short-payback purchase, it would not need explaining. It needs explaining because the economics are unfamiliar: an information asset that appreciates, where the return accelerates over time rather than fading.

4. The four value mechanisms

Asset Intelligence creates value through four mechanisms. They operate across all four outcome domains (Environmental, Social, Safety, Economic), which the Definition sets out in full. They are worth distinguishing because they have different time horizons, beneficiaries, and evidence requirements.

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1. Risk reduction. Structured, governed information lowers the probability and severity of compliance failures, safety incidents, and regulatory penalties: Building Safety Act obligations, fire safety, environmental reporting, data security. It is measurable through audit performance, incident reduction, and avoided regulatory action. Value begins as soon as governed information is in place and persists for the life of the building.

2. Cost avoidance, including productivity. Better information shifts maintenance from reactive to planned, removes duplicated effort across teams and systems, and sharpens procurement. It is the mechanism most organisations recognise first because it shows up in operational budgets. Productivity sits here as a named driver: engineer first-time-fix, faster information retrieval, reduced rework, shorter site-walk and diagnosis times. Cost avoidance typically becomes measurable within the first twelve to twenty-four months of an operational capability.

3. Decision quality and speed. Structured information enables better capital planning, investment prioritisation, and disposal decisions, and it enables them faster. Speed and quality are distinct but reinforce each other. A board approves a capital plan faster when the underlying data is governed and reliable. An FM team diagnoses a fault faster when the asset relationships are mapped. Compliance reporting and procurement cycles shorten. This value is harder to measure than cost avoidance but is typically an order of magnitude larger, and it becomes meaningful once the Use function is active.

4. Outcome achievement. This is the mechanism that earns the word Intelligence. Asset Intelligence lets an organisation measure whether its buildings perform as designed across the four outcome domains. It compounds over time as data accumulates, benchmarks emerge, and the loop between requirements and performance tightens.

5. Value by stakeholder

The four mechanisms distribute differently across the supply chain. The person funding Asset Intelligence is often not the primary beneficiary, so the value case is best constructed by stakeholder. Each list below names the benefit, the mechanism it runs through, and the time horizon.

5.1 Asset owner

Asset owners hold buildings as long-term investments or operational necessities, over a horizon measured in decades. They capture value from all four mechanisms. Decision

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quality and speed, and outcome achievement, are disproportionately valuable to them because their decisions are the largest in the lifecycle.

Benefit	Mechanism	Time horizon
Reduced lifecycle leakage from duplicated surveys and repeated rediscovery of information	Cost avoidance	Year 1 onward
Compliance confidence reducing audit cost and personal liability exposure	Risk reduction	Year 1 onward
Data security over sensitive asset information (Architecture Capability 3.4)	Risk reduction	Year 1 onward
Net operating income stability: fewer unplanned costs, shorter voids	Cost avoidance	Year 2 onward
Whole-life cost planning across total cost of ownership, operating cost and replacement cost	Decision quality and speed	Year 1 onward
Better capital planning through accurate condition data	Decision quality and speed	Year 2 onward
System integration with CAFM, BMS and smart-building systems (Capability 4.1)	Cost avoidance, Decision quality and speed	Year 2 onward
Disposal and refurbishment decisions made on evidence	Decision quality and speed	Year 5 onward
Evidenced continuation funding for Recover programmes, produced by performance intelligence (Capability 5.2)	Outcome achievement, Decision quality and speed	Ongoing, first evidence cycle 12 to 18 months post-recovery start

5.2 FM contractor

FM contractors operate buildings under service agreements with defined SLAs, margin targets, and contractual risk. Their horizon is the contract term, typically three to seven years. Cost avoidance and risk reduction dominate.

Benefit	Mechanism	Time horizon
Engineer productivity from faster access to accurate information	Cost avoidance (productivity)	Year 1 onward
First-time-fix rate improvement	Cost avoidance	Year 1 onward
Avoidance of repeat surveys and asset-tagging exercises	Cost avoidance	Year 1 onward

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Benefit	Mechanism	Time horizon
Shift from reactive to planned maintenance	Cost avoidance	Year 2 onward
Reduced contractual disputes from better-evidenced service delivery	Risk reduction	Year 1 onward
Secure handling of asset information across the service (Architecture Capability 3.4)	Risk reduction	Year 1 onward
Evidenced continuation funding for Recover programmes, produced by performance intelligence (Capability 5.2)	Outcome achievement, Decision quality and speed	Ongoing, first evidence cycle 12 to 18 months post-recovery start

5.3 Investor

Investors hold or finance assets and portfolios. Their horizon spans the hold period and the transaction. Value concentrates in asset value preservation and risk.

Benefit	Mechanism	Time horizon
Asset value preservation through a governed information layer	Outcome achievement	Year 5 onward
Reduced due diligence cost on acquisition	Cost avoidance	Transaction event
ESG reporting credibility	Risk reduction	Year 1 onward
Stranded asset risk reduction	Risk reduction	Year 5 onward

5.4 Constructor

Constructors operate on project timescales with margin pressure and handover obligations. Value runs mainly through risk reduction and cost avoidance, with differentiation as the strategic upside.

Benefit	Mechanism	Time horizon
Reduced handover remediation cost from capturing information at source	Cost avoidance	Project close
Lower contractual risk from demonstrable compliance with the Exchange Information Requirements	Risk reduction	Project close
Supply chain procurement capability: specifying information obligations into subcontracts (Capability 1.3)	Cost avoidance, Outcome achievement	Year 1 onward

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Benefit	Mechanism	Time horizon
Competitive differentiation through a credible information capability	Outcome achievement	Year 1 onward
Client retention from delivering buildings that perform in operations	Outcome achievement	Year 2 onward

5.5 Supply chain (subcontractors and specialists)

Subcontractors and specialists deliver packages and specialist work into projects and operations. Their value is in less rework and in access to work where information capability is scored.

Benefit	Mechanism	Time horizon
Reduced rework from clear information requirements	Cost avoidance	Project event
Access to work where procurement scores information capability	Outcome achievement	Year 1 onward

5.6 The value transfer problem

Value transfers between participants at lifecycle moments. The largest single transfer is handover, where information created by the constructor passes to the asset owner and FM contractor for operational use. The most frequent transfers are FM contract transitions, which recur every three to seven years for the life of the building. Each is a moment where information either carries across or degrades. Together they move more value than the single handover event. Fit-outs and refurbishments sit between the two. The Architecture covers handover and FM contract transitions in the same capability, 2.2 Structured handover. When any of these transfers fails, the operational participants either fund retrospective recovery or operate without structured information.

These transfers are the structural reason the problem persists. No single participant captures enough value to justify funding the complete discipline alone. The constructor bears the capture cost but does not gain the operational benefit. The FM contractor benefits but does not control the handover, and hands the estate on at contract end. The asset owner benefits most over time but often cannot see the cost of not having structured information. Asset Intelligence addresses this by holding a continuous information layer across the transitions. The commercial implication is that the strongest value cases are built across supply chain boundaries, not inside one participant's budget.

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6. The compounding effect

The discipline's product, a governed information layer, gains value for as long as it is governed. This is the single most important insight in the model. Compounding comes from three sources.

Information density. Each new data point makes existing data more useful. A condition record has limited value alone. Combined with installation date, specifications, maintenance history, and performance data, it becomes the basis for lifecycle cost modelling, replacement planning, and risk assessment. The whole exceeds the sum of the parts, and the ratio improves with every addition.

Temporal depth. Operational data gains value with time. One year of energy performance is a snapshot, five years a trend, ten years a reliable basis for capital decisions, twenty years a strategic asset no competitor or new entrant can replicate.

Network breadth. As more buildings hold structured information, cross-portfolio intelligence becomes possible: benchmarking, standardisation, pattern identification, resource optimisation. Ten buildings in the layer give a different quality of insight from two.

The common data model prerequisite. Compounding depends on a common data model. Where data structures vary building to building, density does not compound, temporal depth produces noise rather than insight, and network breadth produces fragmentation rather than benchmarking. The model can be progressive: an organisation does not need full completeness on day one, but it needs a target state and a maturing process toward it. Architecture Capability 3.1 (Information structuring) specifies what the common data model entails.

The compounding effect means the cost of early investment is recovered through accelerating returns, and the cost of delay is not linear: every year without structured information is a year of compounding lost. On the Recover pathway this loop is also the funding loop. Each phase of recovery produces evidence, through performance intelligence (Capability 5.2), that re-funds the next. Recover investment therefore depends on performance intelligence being established early enough to feed the next funding decision. Without it, the programme stalls at the end of the first phase.

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7. The cost of inaction

The model has a shadow: the cost of not practising Asset Intelligence. The Performance Gap described in the Thesis compounds over time.

Outcome domain	Visible cost of inaction	Hidden cost of inaction
Environmental	Energy waste above design intent. Failed sustainability targets. Reporting gaps.	Inability to set credible net-zero baselines. Capital invested in the wrong interventions. Stranded asset risk.
Social	Occupant complaints. Comfort failures. Space utilisation inefficiency.	Productivity losses never attributed to building performance. Talent retention impact unmeasured.
Safety	Compliance audit failures. Remediation costs. Near-miss incidents.	Personal liability exposure for accountable individuals. Insurance premium inflation. Reputational risk accumulation.
Economic	Reactive maintenance premiums. Unplanned capital expenditure. Duplicated surveys.	Asset value erosion. Suboptimal disposal timing. Capital misallocation across the portfolio.

The hidden costs are typically larger than the visible ones. An organisation can see its maintenance budget. It cannot easily see the capital it wasted replacing assets too early or too late, the energy it overspent because it never compared actual against designed performance, or the regulatory exposure it accumulated because records were scattered across disconnected systems.

8. Value across the building lifecycle

The table below maps where and when value accrues across a building's life on the Create pathway. It follows the five functions and the whole-life arc described by BS 8536 (design, manufacture and construction for operability): brief, design and construction, handover, and operation. The Recover pathway follows in 8.2.

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8.1 Create pathway: lifecycle value map

Lifecycle stage	Function	Value created	Primary mechanism	Time to realisation
Strategy and brief	Requirements	Specifying the right information prevents downstream waste. Every requirement not defined here becomes an expensive recovery exercise later.	Cost avoidance, Decision quality and speed	Deferred to handover and operations
Design and construction	Requirements, Capture	Information captured at source, at lowest marginal cost, with the supply chain contractually accountable for quality. Creates the information asset.	Cost avoidance	Deferred. Investment phase
Pre-handover	Capture, Information Governance	Information structured into an asset-centric model, validated against requirements, transfer integrity preserved. The handover chasm is avoided.	Risk reduction	Immediate. The highest-value moment in the lifecycle
Operations: years 1 to 5	Information Governance, Delivery	Compliance confidence from day one. Maintenance planned from structured data. Information accessible at the point of decision.	Risk reduction, Cost avoidance	Immediate and accelerating

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Lifecycle stage	Function	Value created	Primary mechanism	Time to realisation
Operations: years 5 to 25	Delivery, Use	Capital planning informed by condition data. Performance measured against design intent. Portfolio benchmarking. Sustainability reporting grounded in evidence.	Decision quality and speed, Outcome achievement	Compounding
Operations: years 25 to 50+	Use	Strategic intelligence: disposal planning, major refurbishment, net-zero trajectory. Full lifecycle cost visible.	Decision quality and speed, Outcome achievement	Peak value

Requirements and Capture are investment phases. Information Governance is the bridge that protects the investment. Delivery is where operational return begins. Use is where strategic return compounds. The further along the lifecycle, the higher the value per unit of information, because the decisions it serves get larger.

8.2 Recover pathway: different curve, same destination

The Recover pathway has a different value curve. There is no construction event to piggyback on. The organisation invests directly in recovery, with no other project to absorb the cost. Three structural differences follow. Value starts sooner, because a recovery programme yields compliance and operational value as soon as the first buildings are surveyed and structured, with no deferred investment phase. The baseline is worse, because an existing estate without structured information runs a larger Performance Gap, so the absolute value of recovery is often greater than the value of preserving handover information. And recovery is progressive, building over time rather than arriving in a single handover, so the curve is a gradient and each building recovered creates a natural flywheel for expanding the programme. The funding of that flywheel is the evidence loop in Section 6: performance intelligence established early keeps each phase funding the next.

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9. Value contribution by function

The five functions contribute to value differently. Understanding this prevents common misallocation of investment.

Function	Value contribution	Without this function	Investment profile
Requirements	Ensures only useful information is captured. Connects information to organisational purpose. Prevents waste.	Organisations capture information without knowing why. Expensive data with no decision value.	Low cost, high leverage. Typically underinvested.
Capture	Creates the information asset. The foundation everything else depends on.	No information to govern, deliver, or use. The discipline does not exist.	Highest absolute cost. Most visible. Most frequently overemphasised relative to other functions.
Information Governance	Protects the information investment. Ensures accuracy and trustworthiness over time.	Captured information degrades. Decisions based on stale or inaccurate data. Trust erodes.	Ongoing operational cost. The function most organisations neglect after initial setup.
Delivery	Makes information usable at the point of decision. Connects the information layer to operational and strategic systems.	Information exists but is inaccessible. People work around the system rather than through it.	Technology-intensive. Value depends on integration quality with adjacent systems.
Use	Converts information into measurable outcomes. Closes the loop between requirements and performance. Where Intelligence is earned.	The organisation has an information layer but no intelligence. Data is managed but not used strategically.	Lowest current investment across the market. Highest unrealised value. The frontier.

The Maturity Model finds that Use is almost universally at Level 1. That is the value model's most significant finding. The function with the highest potential return is the one where almost nobody is investing.

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10. Implications for adopters

For sequencing investment. The investment and return asymmetry explains why the discipline is underfunded and why the case must be constructed deliberately. Fund Information Governance as the protection on every pound spent on Capture. On the Recover pathway, establish performance intelligence early: it is the evidence capability that keeps each phase funding the next. Treat Use as the return, funded once the upstream functions produce information worth trusting.

For building the internal case. The Maturity Model tells an organisation where it stands. This model tells it what staying there costs and where the return sits. The per-stakeholder lists identify which levers matter to which role, so the case can be assembled in the language of the people who approve it.

For the discipline. The value model completes the framework's economic logic. A governed information layer appreciates. That is the foundation of the discipline's investment case, and it is the argument that separates Asset Intelligence from a conventional technology purchase.

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