RED BEAR: ALPHA ENGINE · SUITE DATA SHEET · FORMERLY RED BEAR: INVESTMENT INTELLIGENCE

Where sector expertise compounds

The deal-to-value lifecycle for private equity, from first signal to exit, with what each deal teaches carried into the next. **Every figure carries its source.**

KEY POINTS

- We do not replace analysts with AI. We give them back the hours they spend gathering information, to spend on the analysis that decides the deal
- Every value carries its source, its capture date and an evidence status: verified, externally sourced, inferred, predicted or analyst-supplied; where sources disagree, both are kept
- Sector expertise gets three durable forms: a map of how each company operates, the solution pack that writes a playbook down, and a ledger of what the system proposed and what a person did about it
- The decision is recorded with the alternatives and the evidence of the day, so decision quality and outcome quality are read separately
- The platform proposes and never decides: the analyst overrides with a reason, the committee decides, and nothing leaves the tenant without clearing a gateway that says no by default

What it is

A private equity firm buys three or four companies a year and looks at several hundred to do it. Reviewing one takes an analyst two to six hours, most of it spent pulling data from five or more sources that rarely agree and reconciling them mentally. The reconciliation is never recorded, so the next person repeats it.

Red Bear: Alpha Engine is one workbench for the deal-to-value lifecycle: mandate, source, screen, predict, validate, decide, own, learn. The analyst starts from a populated, evidence-tagged profile, nothing is deleted along the way, and what the firm learns in owning one company is written down, reviewed and measured for the next deal.

The pain point

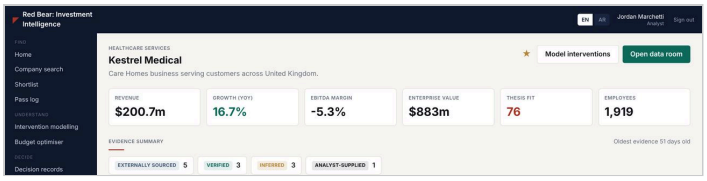
The constraint on a fund is not judgement. It is that judgement is being spent on assembly. The good business nobody reached is invisible: no memo is written about it, so the cost of the cap on coverage never appears anywhere. The reasoning behind the decisions the firm does make is rarely kept, so post-mortems reduce to hindsight. And what its best people know about improving a business is applied from memory, deal by deal, and leaves when they do.

The judgement does not get shorter; the assembly does, and the evidence trail outlives the analyst who built it.

How it works

Seven pillars and two clusters that run across them, each useful on its own; together they cover the lifecycle from first signal to exit.

- **FIND · DealLens** (INV-DS-01). From a brief to a curated set, a screened candidate and cited data-room research; every value with its source, every pass with its rationale.
- **PREDICT · Predictive Investment Intelligence** (INV-DS-02). What the firm's own money would add over what would happen anyway: the uplift, with its interval, for around thirty levers singly or combined.
- **VALIDATE · Intelligent Due Diligence** (INV-DS-03). What the firm does not know, ranked by whether it would change the decision; a work package advisers bid against like for like; the company's ontology map hardened from inferred to confirmed.
- **DECIDE · Investment Committee Pack** (INV-DS-04). The alternatives, evidence and forecast frozen at the moment of the call; the outcome attached years later.
- **OWN · Portfolio Intelligence** (INV-DS-05). The thesis carried into a value creation plan and measured through the hold; dashboards, and early warnings a person triages.
- **LEARN · Collective Intelligence** (INV-DS-06). Predictions scored against what happened, the lever separated from the market, and opt-in learning across firms: abstracted patterns only.
- **PROTECT · SovereignTrust** (INV-DS-07). Three hosting models, so residency is a decision you make: Azure UAE North as the SaaS region, Azure Stack Hub in your data centre, or containers on your own servers. Keys you hold, federated identity, and the firm administering its own roles, backups and read-only connectors.
- **Solution packs and maturity** (INV-DS-08). Playbooks reviewed by a senior partner before they go live, matched to a company's maturity gaps, and applied with a confirmed baseline, a named owner and a named sponsor.
- **Human-in-the-loop review and predictive learning** (INV-DS-09). What the system generates carries a confidence and a risk and is reviewed by band; a decision ledger with lineage; learnings a person accepts or rejects before use.



S-03 Company profile: Where the analyst works: a company profile in which every figure carries its source, its capture date and an evidence status, and can be overridden with a reason, the original preserved underneath (FR-FIND-004, FR-FIND-008). Prototype render on synthetic data for fictional entities.

What it changes for an investment team

- **Cover more of the market.** Screen a materially larger universe without adding headcount; the constraint stops being analyst hours (FR-FIND-003).
- **Cut time to a first view.** A populated, evidence-tagged profile in minutes rather than the two to six hours spent assembling one (FR-FIND-002).
- **Originate proprietary, at scale.** Map a sector against the mandate rather than joining an auction where price is competed away (FR-FIND-001).
- **Scope pre-diligence accurately.** Advisers are briefed only on the unknowns, and deals that will not survive are killed before the fee is committed (FR-VAL-001, FR-VAL-003).
- **Answer diligence questions with citations.** Ask the data room in plain language, in English or Arabic, and get the passage or an honest "not found" (FR-FIND-006).
- **Put a defensible paper to the committee.** Every figure in the IC pack answers "where did this come from?" without anyone reconstructing it (FR-IC-004, FR-IC-010).
- **Keep the pass log.** Rejections outnumber acquisitions many times over; their reasoning becomes a searchable asset rather than a one-line CRM note (FR-FIND-007).
- **Apply the mandate consistently.** House criteria live in the platform, so two analysts reach comparable assessments and drift becomes visible (FR-FIND-010).
- **Model value creation before you commit.** Test lever combinations against evidence from comparable businesses, with the uncertainty stated rather than buried (FR-PRED-003, FR-PRED-005).
- **Clear the security review first time.** Residency, isolation and encryption are answered before procurement asks (FR-PROT-001, FR-PROT-004, FR-PROT-005).

RETURN ON INVESTMENT

Three shifts, each visible at the desk in the first weeks: **hours per company before judgement begins** become minutes to a populated, sourced profile; **coverage capped by headcount** becomes a wider universe at the same standard; and **reasoning lost when people move on** becomes an evidence trail that outlives the analyst. Four further measures are recorded by the product itself and baselined at the first engagement rather than asserted here: the difference between a generic-scope diligence estimate and the evidence-driven scope, reported per engagement and labelled an estimate (FR-VAL-009); the predicted uplift against the outcome actually measured during the hold (FR-OWN-004); for each solution pack applied, predicted against realised uplift with the part attributable to the pack separated from sector and market movement, both as estimates with intervals (FR-MEAS-006); and the calibration of the forecasts the committee made against what happened (FR-LRN-005). **No target is stated in this document.**

What it runs on, and what it reads

Models. Extraction pulls structured facts from business plans, filings and data-room documents with the source retained; citation-grounded retrieval answers only where a passage supports it; predictive models estimate what an investment does, trained initially on publicly available data across thousands of companies. Every model output is labelled, the label travels with it into the IC pack, and where a model cannot support an answer the platform says so rather than generating one (FR-PRED-003, FR-PRED-008). **Sources.** Registries and filings (Companies House, SEC and equivalents); commercial providers (PitchBook, S&P Capital IQ, Crunchbase, Dealroom) on your own subscriptions; press archives and credit bureau reports; your inbound business plans; connected data rooms indexed in place; and your own history of screens, passes and decisions.

Platform engines

Built on the Red Bear Platform's Research, Decision Intelligence, Cartesian Decision Analysis, Decision Learning, Presence, Organisation Information Gathering and Ontology Mapping engines and its shared services, specified in the platform FSD. The SaaS model runs in Azure UAE North (RBP FR-HO-01, RBP FR-HO-02).