

A LEGACY THROUGH ENGINEERING DISCOVERY

Strategy & Investment Portfolio 2026-2036

Developing governed engineering discovery AI.
One architecture. Applications shaped around real
problems.

Our ambition is to advance materials, resources and technologies through evidence-led research, physics-aligned models and accountable human decisions.



THE PROPOSITION

An engineering discovery business

We are building a common engineering intelligence architecture from which focused discovery and assurance applications can be developed, tested and configured for partners.

01 BUILD

The technology

aLL-i TVC connects evidence, physical models, AI-supported exploration and review. AEGIS structures governed decisions; K-Ledger records supporting evidence.

02 PROVE

The customer route

Start with one bounded engineering question. Agree the data, baseline and acceptance criteria, then deliver a study that shows what has and has not been established.

03 REUSE

The business route

Develop paid studies and custom applications, then pursue reusable modules, licences and support where demand and validation justify them.

READ THE PORTFOLIO

03 Purpose and problem

05 Architecture and workflow

08 Research and applications

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14 Sales and collaboration

19 Investment and impact

This is a strategy and collaboration proposition. Development programmes and future commercial routes are not presented as products already available at scale.

PURPOSE AND AIM

A legacy through engineering discovery

Our purpose is to build useful technology and knowledge that serve humanity and the planet, with research continuity at the centre of the business.

Our mission

Develop engineering discovery AI that helps people explore difficult questions, identify promising materials and technologies, and decide what evidence is needed next.

Our aim for 2036

Earn international recognition through reproducible work, trusted partnerships and applications that solve well-defined engineering problems.



Research-led reinvestment

We intend to reinvest available income after delivery costs and obligations into people, infrastructure, further R&D and sharing useful knowledge.

Long-term purpose is a strategic commitment. This booklet does not assert charitable status, a legal purpose lock or a predetermined investor-return policy. Artwork is illustrative.

THE ENGINEERING NEED

From a promising output to usable evidence

A discovery is valuable when an engineering team can understand its assumptions, test its limitations and decide what to do with it.

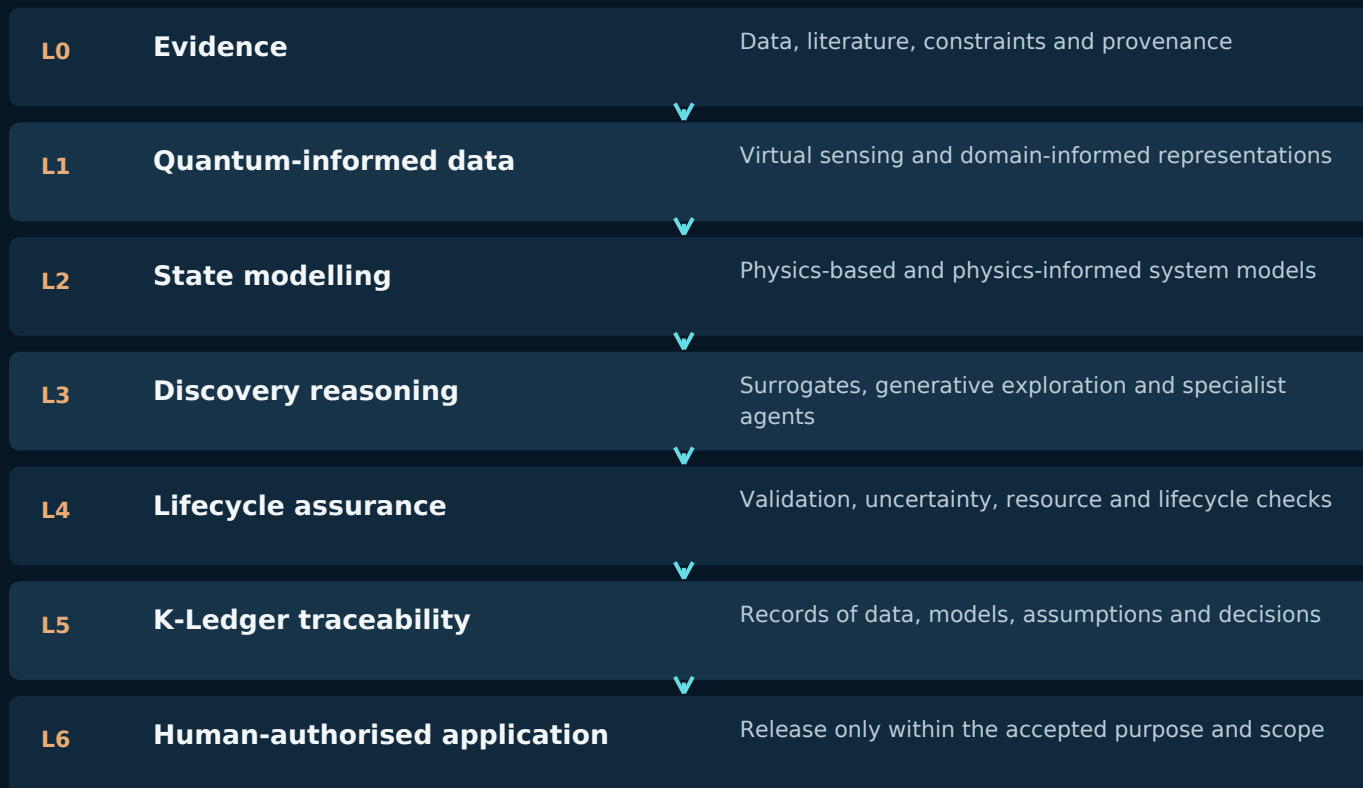
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|----|----------------------------------|---|
| 01 | Disconnected tools | Bring data, simulation, sensing and AI reasoning into a traceable workflow. |
| 02 | Unclear physical limits | State the valid domain and engineering constraints before exploring alternatives. |
| 03 | Uncertain results | Report uncertainty, comparison baselines and the evidence still missing. |
| 04 | Repeated integration work | Develop reusable interfaces and model records across suitable applications. |
| 05 | Difficult review | Provide an evidence pack that supports accountable human assessment. |

These are the problems our architecture is intended to address. Time, cost and performance benefits must be demonstrated within each application.

CORE ARCHITECTURE

The Thinking Value Chain

A public conceptual map of aLL-i TVC. The layers connect evidence to an authorised engineering action; the architecture and its reusable implementation remain under development.



ACROSS THE CHAIN

AEGIS

Evidence first

Physics aligned

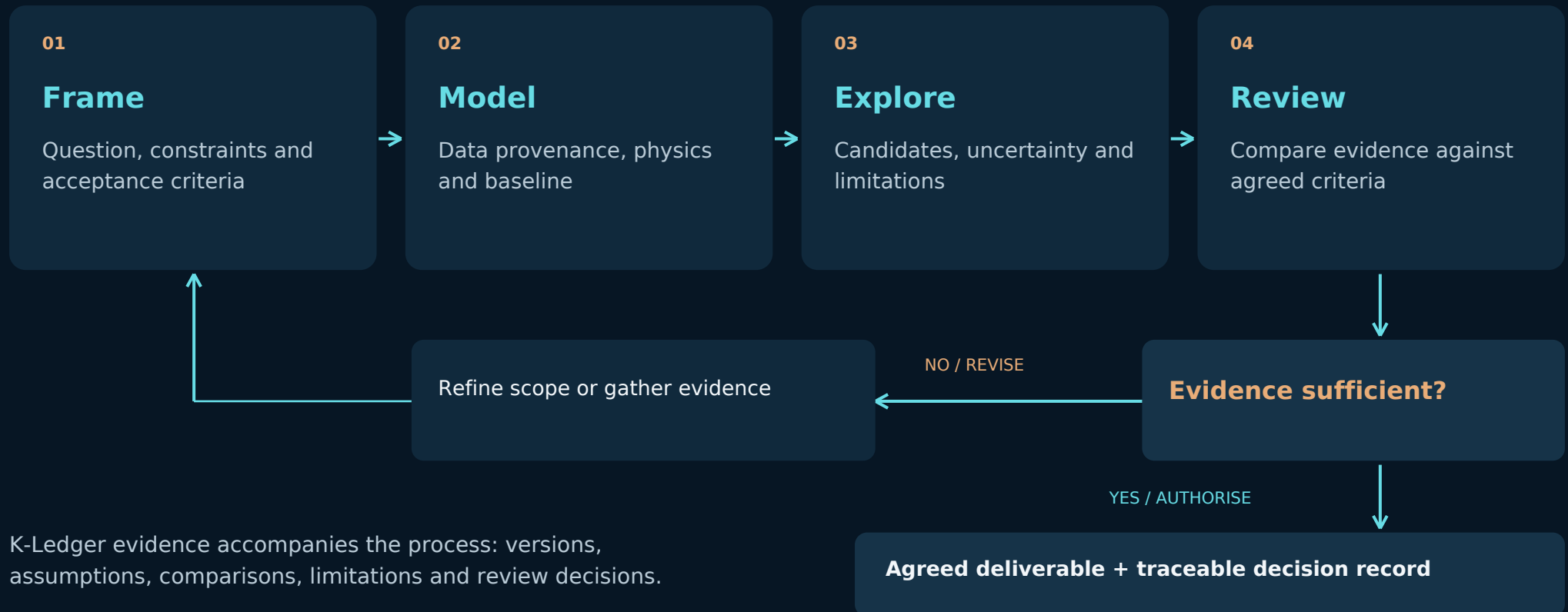
Human authority

The seven layers describe responsibilities, not proof that every layer is production-ready. Traceability supports review; it does not itself certify an engineering result.

GOVERNED DISCOVERY

A reviewable route through each question

A proposed delivery workflow for bounded studies. The customer and responsible engineer agree the scope, evidence requirements and decision authority.



Human authority controls release. A study can conclude that evidence is insufficient; a useful negative result is still a valid research outcome.

REUSABLE CAPABILITIES

One core, configured around the application

The commercial thesis is reuse: share suitable infrastructure and governance while retaining application-specific physics, data and validation.

CUSTOMER APPLICATION

A defined problem, domain models and accepted deliverables

DISCOVERY CAPABILITIES

Simulation | Generative AI | Surrogates | Optimisation

ENGINEERING CONTEXT

Digital twins | Sensing | Spatial information | Uncertainty

GOVERNANCE AND RECORDS

AEGIS review | K-Ledger provenance | Human authority

Reuse must earn its value

We will compare the effort to configure a new application with the effort to build it afresh.

Common modules become assets only when their interfaces, limits and validation records are clear.

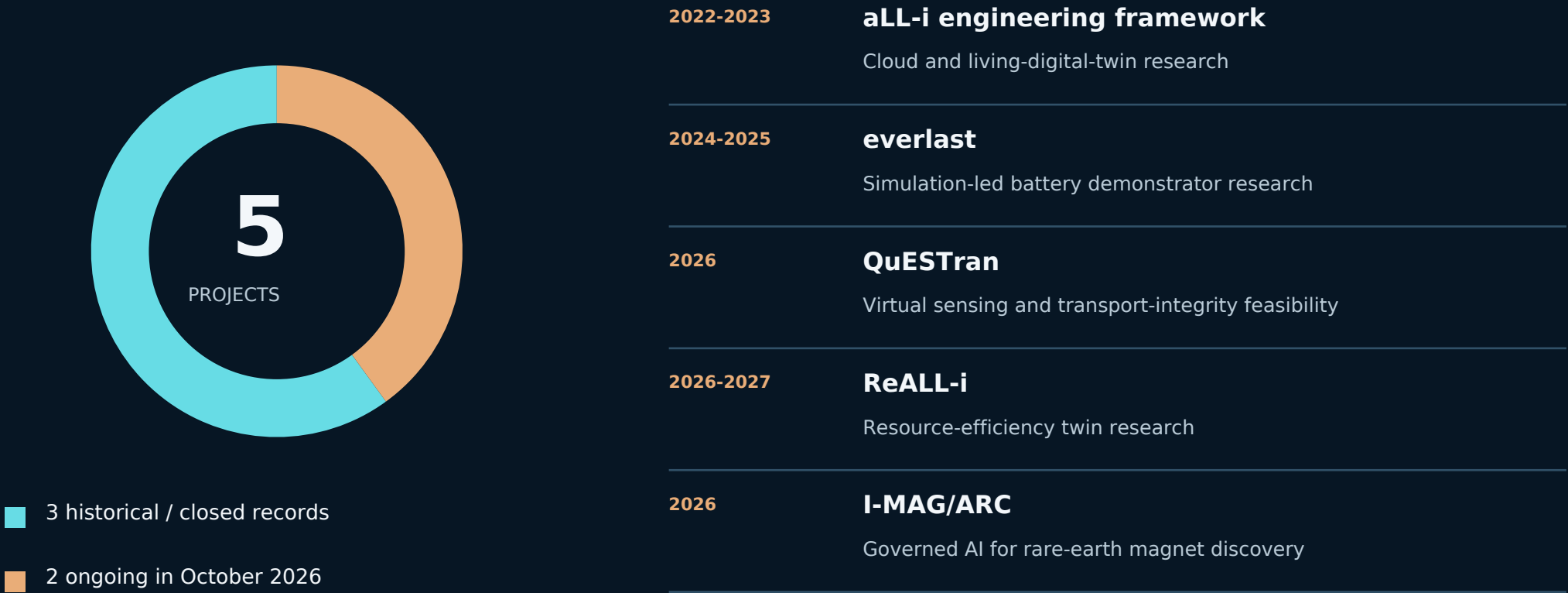
Lower delivery cost is a hypothesis to measure, not an automatic result of sharing code.

Reusable components are a development objective. Availability and suitability must be agreed for each project.

RESEARCH FOUNDATION

Five documented funded projects

The company-supplied funding register describes three historical projects and two ongoing projects. This is a research record, not a measure of commercial readiness.



Source: company funding portfolio v1.0, 11 Oct 2026, pp. 1-5. Chart counts projects; it does not show receipts, revenue, performance or acceptance. QuESTran is a contract, not a grant.

FEATURED RESEARCH / IN DEVELOPMENT

ReALL-i

AI-Orchestrated Resource Efficiency Twin for SME Manufacturing. Research period: September 2026 to February 2027.



Concept illustration; not a deployed demonstrator.

The question

How can AI-supported physical models help an SME investigate resource use and performance in a bounded manufacturing system?

Proposed delivery route

Define the asset and duty cycle; build a documented baseline; explore alternatives; compare resource and performance implications; review findings with the SME.

Intended outputs: model records, bounded comparisons, an evidence pack and a route to further validation.

A feasibility-stage development programme. No operational saving, installed product or customer performance result is claimed here.

FEATURED RESEARCH / IN DEVELOPMENT

I-MAG/ARC

Governed Generative AI for Rare-Earth Magnet Discovery. Research period: October to December 2026.

Explore candidates with physical constraints

The research investigates how generative methods and engineering models can support the search for candidate magnetic designs while retaining evidence about constraints, uncertainty and the next validation step.

The objective is a defensible shortlist and a reproducible evaluation route. A computational candidate is not a discovered, manufactured or experimentally qualified material.

Define

Target properties, constraints and evidence



Generate and screen

Candidate designs and model-based comparisons



Review and prioritise

Uncertainty, limitations and validation plan

Progress is assessed through documented constraints, reproducible comparisons and a clear plan for the next stage of validation.

APPLICATION PORTFOLIO

A family of discovery directions

Application names organise research and future offers. Each application needs its own scope, maturity statement and validation evidence.

MATERIALS**I-MAG/ARC**

Active research in rare-earth magnet discovery; further material classes are a longer-term direction.

MANUFACTURING**ReALL-i**

Active feasibility research in resource efficiency for SME manufacturing.

TRANSPORT**QuESTran**

Historical feasibility work on virtual sensing and integrity monitoring.

ENERGY**everlast**

Historical battery demonstrator research; future storage and conversion work is an ambition.

SENSING AND VISUALISATION**SensingPilot / VisALL-i**

Development directions for measurement and inspectable visual information.

CIVIL AEROSPACE**aLL-i WING / QVP-SubWing**

Concept direction for structural evidence and virtual-to-physical validation.

These selected research directions have different maturity levels. Scope, availability and evidence are agreed separately for each engagement.

SCOPE

Eight focus areas, staged entry

The long-term scope is broad. Near-term effort concentrates on funded materials and manufacturing questions; expansion follows evidence, partners and capacity.

Materials discovery

Magnetic materials and candidate architectures

Energy

Storage, conversion and resource performance

Civil nuclear

Bounded materials and component research

Aerospace

Structures and validation evidence

Automotive

Components, manufacturing and lifecycle questions

Transport

Integrity, sensing and maintenance research

STEM education

Verified examples for learning and experimentation

New AI technologies

Domain methods, governance and useful reasoning

Entry rule: a defined problem + relevant expertise + suitable data + a validation partner + funded capacity.

Focus areas describe intended scope. They do not establish a validated product, regulatory qualification or active commercial offer in every sector.

TECHNICAL ROUTE / STRATEGIC INTENT

Build in stages from 2026 to 2036

Dates express a planning horizon. Progress depends on evidence and resources; a date alone does not authorise a technical release.

2026-2027

PROVE

Document the core; deliver bounded research studies; capture assumptions and validation records.

Evidence: reproducible baselines and reviewed outputs.

2027-2029

PRODUCTISE

Develop versioned interfaces, reusable modules, test records and application templates.

Evidence: reuse across distinct partner problems.

2029-2032

SCALE

Develop supported releases, deployment choices and integration with partner capabilities.

Evidence: repeatable delivery and support capacity.

2032-2036

EXTEND

Pursue mature cross-sector applications and international deployment through suitable partners.

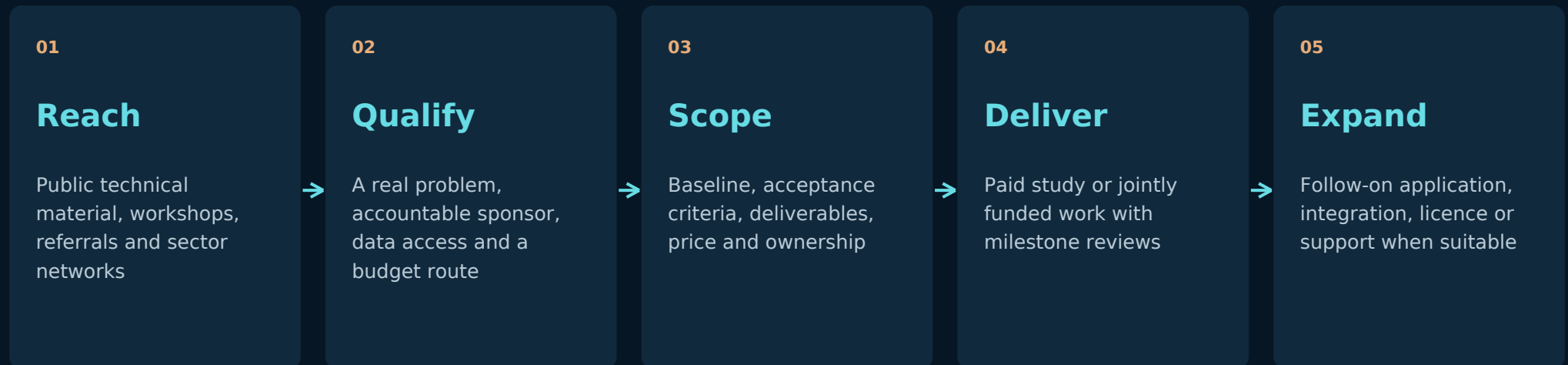
Evidence: sustained adoption and independently reviewed outcomes.

Proposed progression: reviewed study -> reusable capability -> supported application -> broader deployment. Detailed acceptance gates remain part of the internal strategy.

SALES AND ROUTE TO MARKET

Earn the next engagement

Our proposed sales route begins with a specific engineering need and builds toward a continuing relationship when the evidence and customer value justify it.



What qualifies an opportunity?

A problem we can investigate responsibly, a measurable outcome, and a partner able to provide the evidence and resources needed.

What we will measure

Qualified enquiries, proposals, signed studies, delivery effort, repeat engagements and conversion to continuing support.

These are proposed channels and conversion steps, not an existing sales pipeline or a forecast of customer acquisition.

PARTNERSHIP ROUTES

Four ways to work with aLL-i

OEMs, advanced-technology start-ups, SMEs, universities, government agencies and funders can enter at the point that fits their problem and resources.

Application engagement

Configure a suitable featured application around a bounded question.

Partner brings: data and acceptance criteria.

Proposed output: an agreed study and evidence pack.

Custom application

Develop a domain application for a specific engineering challenge.

Partner brings: specialist need and validation access.

Proposed output: a tailored model or workflow.

Co-development

Jointly build and evaluate a discovery capability.

Partner brings: expertise, facilities or co-funding.

Proposed output: milestones, validation and agreed rights.

Technology integration

Explore how a solver, sensor, dataset or infrastructure service fits the architecture.

Partner brings: an integration-ready capability.

Proposed output: a documented interface and joint test.

All engagements depend on scope and agreement. Background IP, foreground results, licences, data access and publication rights should be settled before work starts.

COMMERCIAL MODEL

Income that funds further discovery

The strategy moves from research projects toward repeatable paid work and, where the technology and demand mature, recurring licences and services.

ENTRY

What the customer buys**Studies and projects**

Paid feasibility studies and custom discovery work.

Pricing basis: agreed scope, delivery effort, compute, specialist inputs and review requirements.

EXPANSION

What can follow**Co-development**

Milestone-based collaboration on a capability or application.

Commercial basis: contributions, delivery responsibilities and negotiated rights to use results.

CONTINUITY

What supports recurring value**Licences and support**

Application licences, platform access, integration and training where supportable.

Commercial basis: use, deployment, service levels and maintenance obligations.

Proposed revenue routes, not current recurring revenue. Public R&D grants and innovation contracts remain distinct from commercial software sales. Prices and terms are agreed case by case.

SOVEREIGN ENGINEERING AI

Control must be demonstrated in deployment

Sovereignty is a development objective to be specified and evidenced for each application. UK incorporation or use of an AI service alone does not establish it.

Data control

Rights to use data; permitted locations; retention and deletion; access and audit.

Model control

Model provenance, licence rights, limitations and dependency records.

Infrastructure control

Hosting location, operators, network exposure and operational responsibilities.

Decision control

Named human authority, accepted scope, review records and release conditions.

On-premise, UK-hosted and other deployment options are proposed routes subject to implementation and customer requirements. No blanket accreditation or provider independence is claimed.

IP AND DEFENSIBILITY

Build assets that improve with use

The intended advantage is the combination of domain methods, reusable software and documented evidence, supported by clear rights and disciplined delivery.

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|----|--------------------------------|--|
| 01 | Engineering methods | Develop application-specific constraints, model records and evaluation approaches. |
| 02 | Reusable implementation | Version interfaces, modules and test artefacts so that work can be repeated and maintained. |
| 03 | Evidence and learning | Capture what worked, what failed and the conditions under which a result is useful. |
| 04 | Partner agreements | Identify background IP; agree ownership and permitted use of new results; record third-party licences. |

Protection routes require case-specific assessment. This booklet does not assert patent grants, registered trademarks, exclusive rights or ownership of third-party foundation models.

INVESTMENT ROUTE

Patient capital for engineering discovery

We welcome discussion with mission-aligned investors, funders and strategic partners who understand the time needed to turn research into tested applications.

Productisation

Versioned core modules, interfaces and documentation

People

Engineering, software and delivery expertise

Validation

Comparisons, independent review and physical substantiation

Infrastructure

Compute, data management and suitable deployment

Commercial delivery

Partner development, integration and support capacity

Knowledge

STEM examples, training and dissemination

Proposed sequence

Fund bounded proof -> productise repeatable capability -> scale supported applications as demand is demonstrated.

Use-of-capital categories are unallocated: no percentage split, raise size, valuation, investment instrument, return promise or eligibility claim is offered in this booklet.

OBJECTIVES AND DELIVERABLES

Measure useful progress

These proposed measures translate the ten-year ambition into outcomes that partners can inspect. Numeric targets should be set against a baseline within each programme.

OBJECTIVE	DELIVERABLE	EVIDENCE TO REVIEW
Technical credibility	Reproducible studies	Baseline comparisons, limitations and reviewable evidence
Reuse	Versioned capabilities	Documented interfaces, tests and application-specific constraints
Customer value	Accepted deliverables	Clear acceptance criteria and partner review of results
Commercial continuity	Repeatable paid work	Measured delivery effort, repeat engagements and support demand
Resource benefit	Substantiated impact	An agreed boundary, comparator and measured resource effect
Knowledge legacy	Useful learning material	Reviewed examples, skills development and accessible explanations

Measures are proposed, not achieved results. Environmental and efficiency claims require application-specific evidence; simulated changes are labelled as simulated.

DELIVERY DISCIPLINE

Scale capability with the evidence

A research-led company needs sustained delivery, technical challenge and commercial discipline. Growth should follow the capacity to support the next commitment.

People and authority

Build a small expert team around physics, AI, software and delivery. Keep accountable engineering review with named people.

Partners and validation

Use specialist facilities and domain partners to challenge findings and extend validation where it is needed.

Capacity and focus

Protect active project delivery. Add applications and support obligations only when expertise and resources are available.

RISK

Model error or overreach

Too many simultaneous applications

Slow adoption or costly integration

PROPOSED RESPONSE

Bound the valid domain; compare baselines; retain human review.

Prioritise funded work and reuse opportunities with a clear customer need.

Start with a limited study; agree interfaces and acceptance early.

The roadmap remains conditional on research outcomes, funding, customer demand and the specialist requirements of each sector.

NEXT STEP

Bring a question worth investigating

We invite OEMs, SMEs, advanced-technology start-ups, universities, government agencies, funders and investors to explore a well-defined first engagement.

01

Describe the problem

What is difficult today, and what decision needs better evidence?

02

Define success

What baseline, constraints and outcome would make a study useful?

03

Agree the first step

Scope a study, custom application or co-development proposal.

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Engineering intelligence with accountable control

A legacy through engineering discovery.

October 2026 strategy. Research and planned capabilities are distinguished from commercial availability. Concept artwork does not depict deployed hardware. Company No. 12731297.