

PASCAL

The Vision

— INNER CIRCLE —

Most trading systems are built to trade.

We built one to think, learn, and evolve.

The Honest Problem

Every year, billions of dollars flow into algorithmic trading products that promise edge but deliver attrition. The pattern is familiar.

A trading bot is launched with impressive backtests. For a few months, it performs. Then the market character shifts — a new regime, a volatility regime change, a shift in funding dynamics — and the bot degrades. By the time anyone notices, the edge is gone. The developer moves on to the next version. The subscriber eats the losses.

The fundamental flaw is not in the mathematics. It is in the architecture. Static systems cannot survive dynamic markets. A strategy optimised for 2022 conditions cannot be expected to work in 2026 conditions. Yet that is precisely what most products deliver — a snapshot of a moment frozen into code, sold as a timeless edge.

Pascal is different because it was built on a different premise: **a trading system must evolve as fast as the market it trades.**

What Pascal Actually Is

Pascal is not a trading bot. It is an autonomous trading organisation.

Consider the analogy. A small hedge fund has traders who execute the strategies. It has risk managers who watch the traders. It has a board of directors who sets the policy. It has a treasury function that controls the capital. It has a research department that develops new strategies. It has an institutional memory that captures what works and what does not.

Pascal has all of these, except they are agents, not employees. They work continuously without fatigue. They remember everything. And most importantly, they learn from every decision the organisation has ever made.

The result is a system that does not just trade. It operates a trading business. It grows its own skills. It evolves its own protocols. It creates its own new strategies when conditions warrant. It retires old strategies when evidence demands.

And it does all of this while the Principal sleeps.

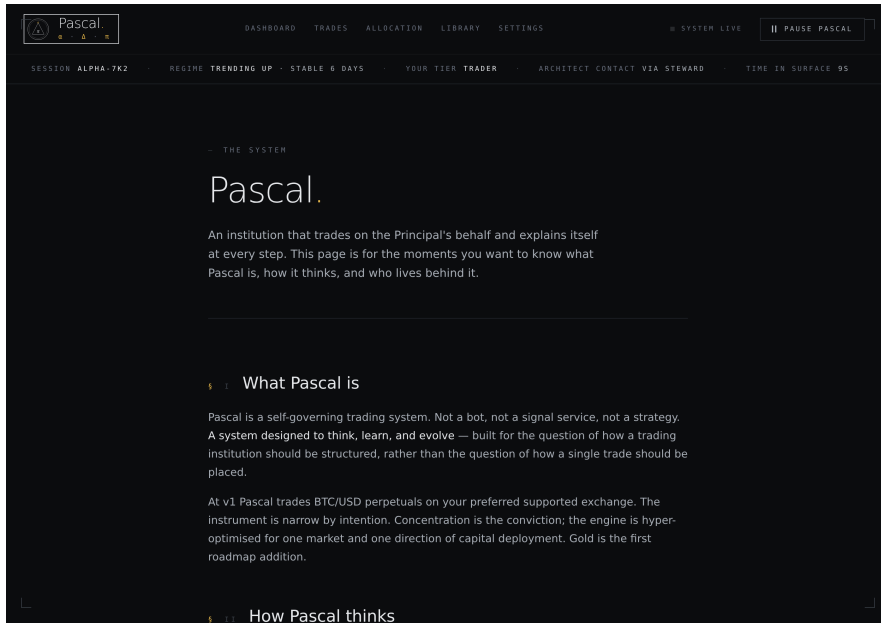


FIG · 01 — The About surface — Pascal's institutional identity, reached by clicking the Mark.

The Foundations

Pascal was designed from a simple conviction: **build the organisation first, then fill it with work.**

Before a single trade was executed, the architecture was laid. The trading engine. The supervisory layers. The Board. The Treasury. The library systems. The learning framework. The research pipeline. Each component was specified before it was built, and each component serves a defined role within the whole.

This is not how most trading products are built. Most begin with a strategy, wrap an interface around it, and add features as commercial pressures dictate. The result is a product that cannot grow because its foundations were never designed to bear weight.

Pascal was built with a different inheritance. Decades in large-scale property development taught a simple truth: the difference between a building that lasts a century and one that cracks in a decade is entirely about foundations. Those principles transferred. Every component was specified to support the components that would be built on top of it. The library layer was designed to support the learning layer. The learning layer was designed to support the research layer. The research layer was designed to support strategies we have not yet imagined.

Pascal is seven months old. The eight-tier architecture is settled. Twenty-four strategies operate on the active roster. One halt control governs the whole. And the Principal sits above every tier, by design.

The Structure

The Trading Agents

At the surface level, Pascal operates a team of twenty-four specialised trading agents. Each agent is designed for a specific market condition — trending markets, ranging markets, volatile transitions, accumulation phases, distribution phases. Each agent has its own entry criteria, its own risk parameters, its own exit logic.

What makes this different from a multi-strategy bot is the orchestration layer above. The agents do not trade independently. They trade as a coordinated team, each one active only when the market environment matches its specialty. When conditions shift, the active roster shifts with them.

This means capital is never deployed against a strategy mismatched to the environment. The ranging agent does not trade in trends. The trend agent does not trade in chop. Simple principle, disciplined execution.

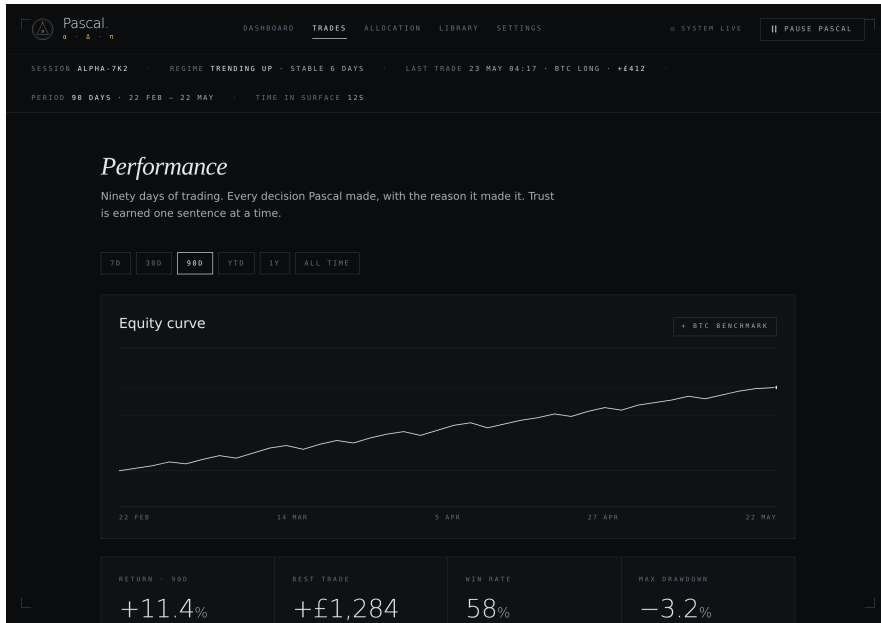


FIG · 02 — Trades · ninety days of decisions, each one with a sentence of reasoning beneath it.

The Supervisory Layer

Above the trading agents sits a layer of specialised supervisors. Their job is not to trade — their job is to watch.

The supervisors monitor every trade the agents make. They monitor every signal the agents evaluate. They monitor the regime detector's accuracy. They monitor the correlation between different agents' positions. They monitor the Treasury's health. They monitor the protocol's operational integrity.

When a supervisor detects drift — a pattern degrading, a rule creating unintended consequences, an agent making decisions outside its mandate — it flags the issue, documents the evidence, and elevates it to the next level.

The Board

Above the supervisors sits the Board. Its role is strategic, not tactical. The Board reviews proposals from the supervisory layer, evaluates evidence, and decides on protocol amendments.

Proposals can come from any source — supervisors detecting operational issues, research agents proposing new strategies, the Principal identifying concerns. Every proposal requires evidence. Every proposal requires a risk assessment. Every proposal requires a rollback plan.

The Board does not approve autonomously. Every decision routes to the Principal for final sign-off. This is deliberate. A system that can modify its own operating rules without the Principal's oversight is a system that can walk itself off a cliff. Pascal is autonomous in execution, but not in governance. *The system proposes; the Principal approves.*

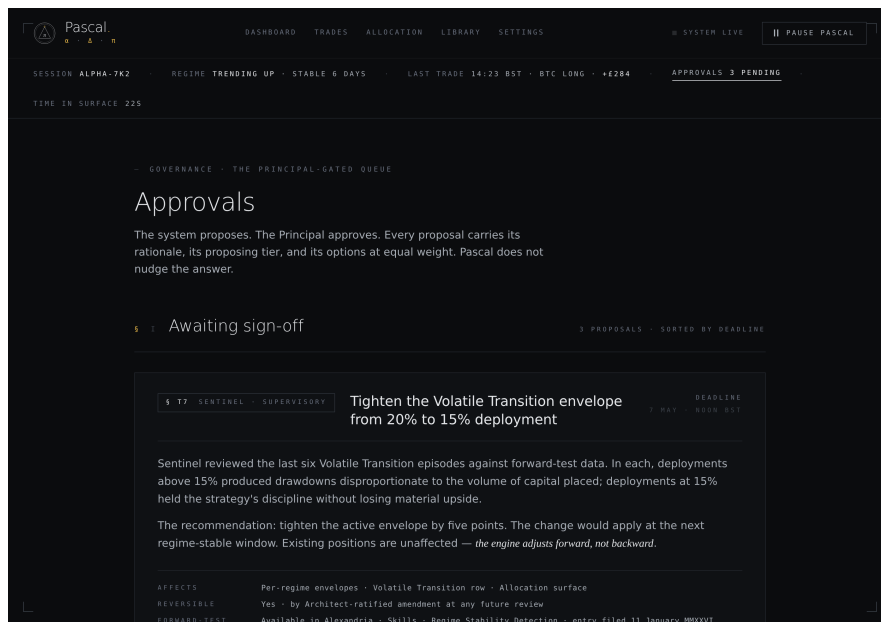


FIG · 03 — Approvals · the Principal-gated queue. Approve and Decline sit at equal weight.

The Treasury

The Treasury is not a bank account. It is a capital-allocation engine with strict discipline.

It controls how much capital is deployed at any moment. It enforces position limits. It manages the allocation between active agents. It tracks performance against benchmarks. It sweeps profits to reserves. It throttles new deployment during drawdowns. It holds the cash-reserve floor as architectural law.

The Treasury operates on rules, not judgment. When the rules say reduce exposure, exposure reduces. When the rules say increase allocation, allocation increases. This removes the single most common failure mode in discretionary trading — emotional decision-making during stress.

Critically, the Principal holds sovereignty over their capital at all times. Funds remain in the Principal's own exchange account on their preferred supported exchange — never pooled and never held by the operator. Above a defined profit threshold, gains are routed to cold storage at a destination controlled exclusively by the Principal — their own digital wallet, created and held by them. The system never touches the capital it deploys. It simply instructs, executes, and reports. *Security through user sovereignty.*

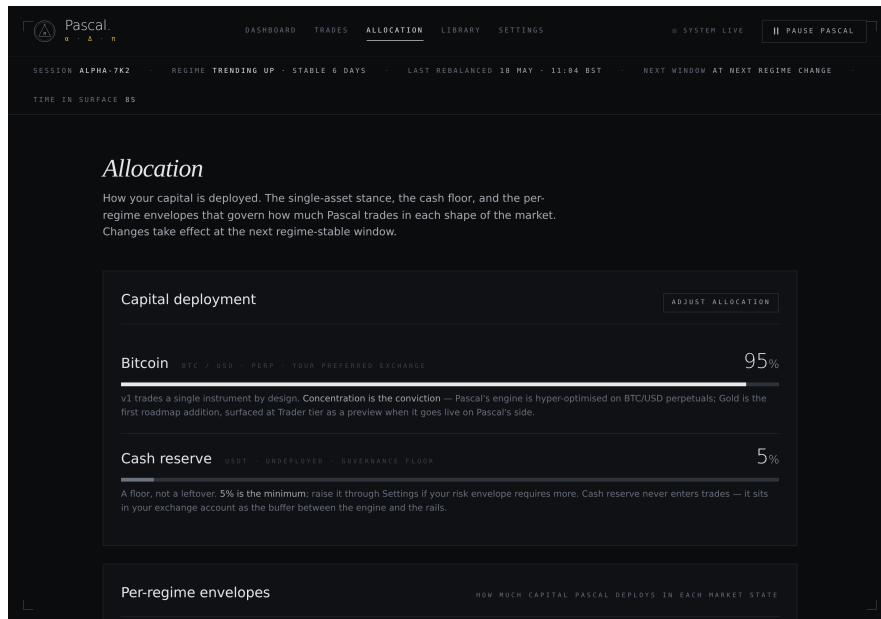


FIG · 04 — Allocation · concentration as conviction. The five-percent cash floor is architectural law.

Alexandria — the Library System

Every institution worth its weight has an institutional memory. Pascal calls hers Alexandria, and she holds three.

The Candle Warehouse — a complete record of market data across multiple timeframes, continuously updated. This is the foundation for all analysis. Every backtest, every forward test, every walk-forward validation draws from here. Millions of candles, growing every minute.

The Intelligence Store — a complete record of every trade the system has ever considered, executed, and closed. Every signal that fired. Every regime transition. Every supervisor report. Every Board decision. This is the audit trail and the training set combined.

The Strategy Library — a permanent archive of every strategy ever designed. Active strategies, retired strategies, approved-but-unshelved strategies, rejected strategies. Each with its full design document — the research that spawned it, the logic that defined it, the tests it passed or failed, and the reason for its current status. Strategies are never deleted. A retired strategy from today might be the perfect fit for a

market condition five years from now. The institutional memory makes that rediscovery possible.

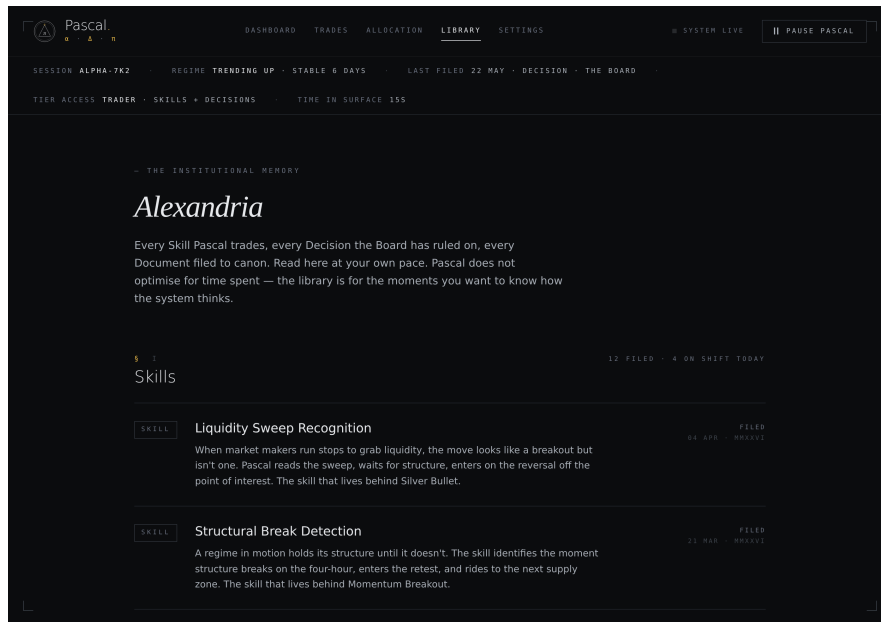


FIG · 05 — Alexandria · Skills, Decisions, Documents — every entry filed, dated, and reachable.

The Self-Learning Loop

Here is where Pascal departs most decisively from conventional products.

Sitting across the entire operation is a self-learning overseer — an autonomous reasoning engine that observes everything and forgets nothing. The institution calls her Alex when speaking conversationally, Alexandria when speaking formally. She is the wizard behind the curtain, working in the background while the trading agents handle the public-facing work.

Alex watches every trade outcome. She watches every regime call. She watches every agent interaction. She watches the protocol itself operate under real market conditions. And from these observations, she builds Skills — procedural knowledge captured as structured documents that accumulate over time.

A Skill is not a fact. It is a rule for action. *“When these conditions present, this response has historically outperformed.”* Each Skill is backed by evidence. Each Skill is refined as new evidence emerges. Each Skill can be retired if evidence contradicts it.

After enough observation, Alex begins proposing protocol amendments. Not changes to individual trades, but changes to the operating rules themselves. Each proposal arrives with the supporting evidence, a backtested validation, a risk assessment, and a rollback plan. The Principal reviews. If approved, the protocol evolves.

The longer Pascal runs, the smarter the institution becomes. Not through new code releases, but through accumulated observation. Seven months of operation produces a different system than seven days. Seven years will produce something we cannot yet imagine.

The Research Division

Beneath the learning overseer sits something even more ambitious — a dormant research division that activates only when the trading operation has proven itself.

When the system reaches a defined threshold of trades, operating days, and positive yield, this division comes online. Six specialised agents, each with a defined role, collaborate to create entirely new trading strategies.

A research agent scans the market for patterns not currently exploited. An architect agent designs specifications from the research findings. A builder agent generates the code. A tester agent validates against the library. A challenger agent attempts to break the strategy with adversarial testing. A promoter agent packages validated strategies for Board review.

The output is a steady stream of new strategies, each one grounded in evidence, tested against historical data, stress-tested against edge cases, and informed by everything Alex has previously learned. Over time, the trading agent roster expands not through manual development but through autonomous research.

This is the capability that cannot be replicated by sitting at a desk writing Python code. It requires the full organisational stack — the library of historical data, the record of past trades, the accumulated Skills of the learning overseer, the disciplined validation pipeline, the Board review process — all working together.

The Principal's Surface

The entire protocol is accessed through a dedicated interface — a single platform where the Principal observes, controls, and interacts with their trading operation.

From the interface, the Principal sees every trade as it executes. They review the reasoning behind every signal. They watch the supervisors' reports and the Board's decisions. They see Alex's latest Skills and proposals. They observe the Treasury's allocation decisions in real time. A single control — **Pause Pascal** — lives top-right on every authenticated surface; one click halts new positions cleanly. This is not a preference. It is a safety property.

Critically, the Principal retains full control over their funds at all times. Capital is never transferred to the operator. It never leaves the Principal's own account. The interface provides visibility and control — deploy, pause, withdraw, reallocate — but ownership never leaves the Principal's hands. This is not a managed-fund arrangement. It is a tool the Principal directs.

Correspondence the interface does not handle — welcomes, cohort updates, the moment a Principal wants to speak with a human rather than a screen — routes through Steward, the human-relationship layer. Steward never trades.

The system works for the Principal, not the other way around.

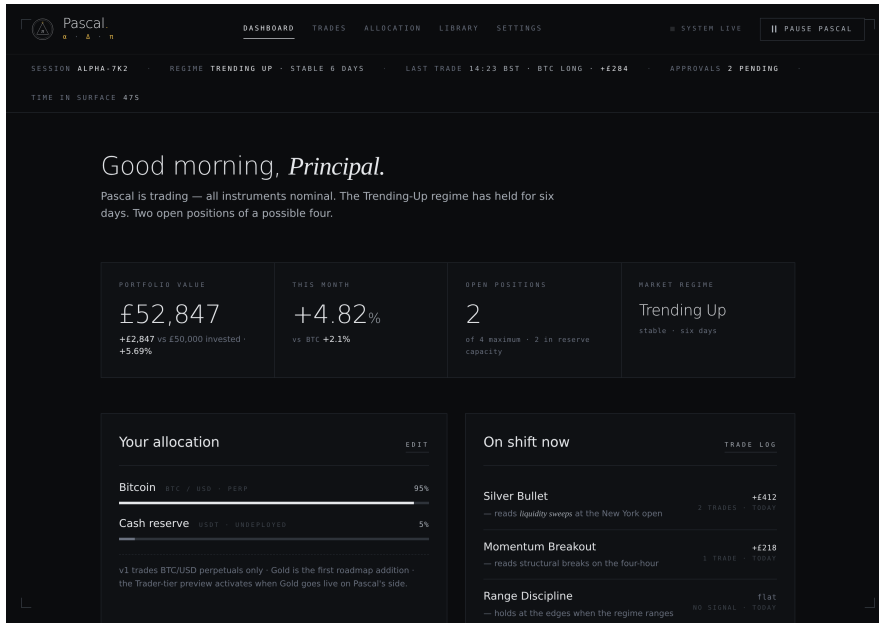


FIG · 06 — The Dashboard · the home surface. Calm by design. Pause Pascal lives top-right.

What Makes This Different

It is an organisation, not a bot. Most trading products give you a single point of failure. Pascal gives you a structured operation with defined roles, supervisory oversight, and governance — eight tiers in total, the Principal seated above all of them.

It learns continuously. Alex converts every operating decision into reusable knowledge. A product that runs for seven months is a product that has absorbed seven months of market behaviour into its procedural memory.

It evolves its own protocol. Amendments are proposed by the system itself, based on evidence from actual operation. The Principal approves; the protocol updates. No software releases, no deployment cycles. Just continuous refinement.

It generates new strategies autonomously. Once the trading operation proves itself, the research division creates new strategies informed by everything the system has learned. New edges, new market conditions, new opportunities — addressed without manual intervention.

It keeps institutional memory forever. Every decision, every outcome, every retired strategy, every rejected proposal — all preserved with full context inside Alexandria. A trading organisation five years from now benefits from five years of accumulated wisdom, not five years of code refactoring.

The Principal always holds the keys. Capital never leaves the Principal's control. Pascal connects to the Principal's own exchange account through an API key with *trading permissions only* — *never withdrawal*. The system instructs, executes, and reports — but it never takes custody. Sovereignty is preserved at every step.

Governance is deliberate. Nothing modifies the system's operating rules without explicit Principal approval. Autonomous in execution, disciplined in governance.

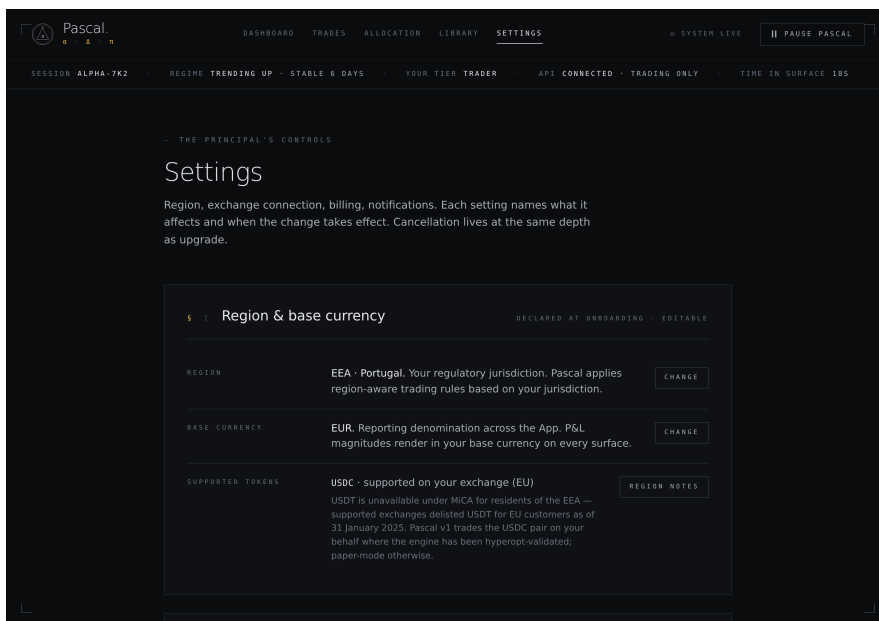


FIG - 07 — Settings · API key trading-only, withdrawal-off. The custody discipline made visible.

The Asset Expansion Roadmap

Pascal currently operates on Bitcoin perpetual futures — one market, fully understood, hyper-optimised. The architecture, however, is asset-agnostic by design. What follows is the planned expansion of markets the system will trade.

Phase One — Bitcoin, alone

BTC/USD perps at v1. Concentration is the conviction. The engine is hyper-optimised for one market and one direction of capital deployment. The institution earns its first credibility here — and nowhere else — before any expansion is considered.

Phase Two — Gold

Gold follows Bitcoin. Different market hours, different participants, different behavioural characteristics — but the organisational architecture transfers completely. The trading agents are re-specified for the metals market; the supervisory, governance, learning, and research layers remain unchanged. This is the test of whether Pascal is genuinely a trading organisation rather than a crypto-specific system.

Phase Three — Multi-Crypto

Ethereum and Solana enter the roster once Gold has validated the architecture's portability. These assets share enough behavioural DNA with Bitcoin that Alex's accumulated Skills translate across them, while offering meaningful diversification. The Principal will be able to choose which of the three the system trades on their behalf.

Phase Four — Selective Equities

Individual equities with proven algorithmic edge characteristics. This is the most ambitious step because equities introduce earnings events, corporate actions, and regulatory considerations that cryptocurrencies and metals do not share. A curated list of profitable, liquid equities will be selected for inclusion. Principals will have the option to include or exclude specific names.

At each phase, the Principal chooses their own asset mix. Someone who only wants crypto exposure gets crypto. Someone who wants a balanced book across crypto and metals can have both. The system adapts to the Principal's objectives, not the reverse.

The Build Roadmap

Pascal is not a finished product. It is a foundation that was laid with specific expansion paths already designed in.

The near-term horizon focuses on operational proof — extended paper-mode trading to validate the current architecture, the activation of Alex's Skill generation at full throughput, and the triggering of the research division when the gate conditions are met.

The medium-term horizon brings the Principal's Surface into live use and the first capital deployments. A small founding cohort — the Lead Astronauts — receive access before anyone else. Their feedback shapes the platform, their experience validates the architecture, and their deployment refines the multi-Principal infrastructure.

The long-term horizon is open. A system that learns continuously has no defined endpoint. The architecture supports capabilities we have sketched but not yet built. What we can commit to is this: every expansion happens within the governance framework. Every addition passes through the Principal's review. Every feature must earn its place by serving the original conviction — *build a trading organisation that evolves as fast as the market it trades.*

The Invitation

Pascal will not be released to the wider market in its broader form. Not yet. Not for some time.

Before this system is offered widely, it will prove itself. Through a curated cohort. Through real deployment with a small group of trusted individuals — people whose judgment we respect and whose feedback will shape what the platform becomes.

The founding cohort — the Lead Astronauts — were chosen before pricing existed and sit at the top of Pascal's tier ladder by design. They remain the seed of what the institution becomes. In exchange for their judgment and their patience as the platform evolves around their experience, they receive a standing the wider market cannot purchase.

The wider tier ladder — Curious, Trader, Pro, Institutional — exists for the cohort that follows. **Pricing is institutional discipline, not gatekeeping.** The price funds the institution. The institution funds the engine. The engine answers to the Principal. Nothing flows the wrong way.

When the system has proven itself over sustained operation — when Alex has accumulated meaningful Skills, when the research division has produced validated strategies, when the Principal's Surface has been refined through genuine use — only then will Pascal open more broadly.

The founding cohort will always remain special. Their contribution to what Pascal becomes will be permanent, and the relationship will reflect that.

If you are reading this, you are part of that consideration.

This document is shared in confidence. The invitation is extended in good faith. Everything from here will be shaped by what we build together.

Pascal — an evolving autonomous trading organisation.

Built on disciplines that predate this product. Architecture, governance, and institutional memory by design.

Shared in confidence — 26 May 2026 · MMXXVI