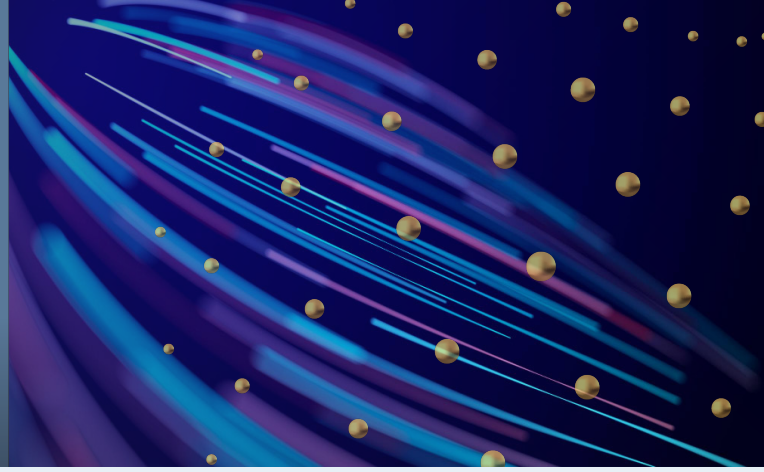


If Everyone Builds, Who Owns the Seams?

AI has changed the economics of building. The rules of operating in regulated markets have not changed with it.



Executive Summary

For the first time beyond the very largest institutions, a mid-tier capital markets firm can operate with the velocity and discipline of a software organization. The risk is not building. It is losing control of what you built before you realize it, with dependencies nobody owns, seams nobody oversees, and audit gaps that widen invisibly until a regulator or a production failure makes them visible. These problems predate AI. AI accelerates the exposure. The answer is managed composability: a governance discipline that harnesses build velocity into an enterprise-safe model. Applied from the start, it does not slow development. It protects the value of everything built.

The Constraint Has Moved

AI coding assistants, Claude Code, Cursor, GitHub Copilot and their successors have not introduced building to capital markets. They have fundamentally changed the economics, enabling a shift in the organizational model. Teams are reporting velocity gains that would have seemed implausible eighteen months ago, some credibly claiming 3x, others 5x or more. But the novelty is not speed.

The constraint is not writing code. It is what happens when that code meets a system that was never designed to change at that speed. When development accelerates, the bottleneck moves to code review, dependency management, compliance lineage, and audit trail. The volume of change overwhelms processes designed for a slower pace. Those processes carried latent risk long before AI arrived. AI does not create the problem. It exposes it and amplifies it when the underlying governance has not kept pace.

Most failures do not come from what you built. They come from what changed underneath it.



A pattern that recurs in firms that scale fast: everyone is building, vendors are brought in, and the front office extends the stack assuming the underlying platform is stable. When the platform upgrades, everything built on top of it breaks, not because the upgrade was wrong, but because nobody owned the seam. Who owns that? Who is watching? How would they even know?

In capital markets, those seams are rarely just code. They are data.

A pricing model, a risk engine, and a finance ledger can each be internally correct and collectively inconsistent. Intraday views diverge from end-of-day records. Risk reflects one state while finance closes another. The failure is not computational, it is contractual. Without explicit ownership of data definitions and timing, the system fragments under its own correctness. Governing the seam means governing the data contract, not just the interface.

The economics of building have changed. The governance requirements have not. A software house knows this. A firm that suddenly builds like one, without the discipline of one, will learn it the hard way.

Managed Composability: The Discipline That Makes It Work

The answer is not a platform. It is not a transformation program. It is a set of operating disciplines applied at the point of build, before the next component goes live.

Managed composability harnesses software-house velocity into something enterprise-safe: dependency awareness, coding patterns and architectural guardrails, upgrade ownership, compliance lineage, security governance, and operational resilience. Most of these disciplines are well understood in software engineering. What is changing is that capital markets firms are now building with the velocity that makes them relevant at scale for the first time.

In capital markets, these disciplines carry a regulatory dimension that pure software engineering never had to solve. Data lineage is not just good practice; it is a regulatory requirement. SDLC gates are not just quality control, they are model risk governance. Health checks are not just uptime monitoring; they are ongoing validation obligations. Managed composability connects software engineering practice to regulated market obligations, so that what firms build is not just fast and functional, but defensible.

In practice, managed composability has teeth. A component with no named seam owner does not go live. A dependency that cannot be monitored is not production-ready. A capability that cannot produce lineage on demand is not compliant. The discipline is only real if it can stop non-compliant releases.

The Minimum That Makes Everything Else Defensible

Discipline	What it means	The consequence of skipping it
Seam inventory with named ownership	Every integration point documented and owned. A living register that gates new components going live.	<i>Firms discover dependencies by watching things break. An ungoverned seam is a production incident waiting for a trigger.</i>
Dependency alerting	A software bill of materials across all bespoke components, with automated alerts on vendor upgrades, API deprecations, and EOL notices.	<i>Silent dependency changes are the most common cause of unexpected upgrade failures, and the hardest to diagnose after the fact.</i>
Release train alignment	Bespoke component owners on the vendor's release notification list, with a defined validation process before each platform upgrade.	<i>The platform upgrades on the vendor's schedule. The seam breaks on yours. Without alignment, you find out on go-live day.</i>
Standard SDLC gates	PR review with a named approver, secrets scanning, and dependency vulnerability checks on every internal build, no exceptions.	<i>Most firms apply these to vendor integrations and skip them for internal builds. That gap is where the most damaging vulnerabilities live.</i>
Lineage pack for regulated outputs	Version control, change approvals, and audit trails for any component touching risk figures, valuations, or regulatory reporting.	<i>The regulator will ask for lineage from two years ago. The answer needs to exist before the question arrives, not be reconstructed under scrutiny.</i>
Production health checks	Uptime monitoring, data quality checks, and defined SLOs for every bespoke component in production.	<i>An upstream platform change can silently degrade output quality without breaking the integration. A health check catches it. Blind trust does not.</i>

Where to apply it comes down to three factors: differentiation value, rate of change, and coupling to core infrastructure. Build in-house where differentiation is high and the capability needs to evolve on your timeline, not a vendor's. Retain platforms where requirements are stable and deeply coupled to core infrastructure. Govern everything in between.

Governance without enforcement is documentation. Managed composability is not only knowing where the seams are, but also enforcing how they behave.

The Cost of Waiting

Every component added to an ungoverned stack increases the cost of retrofitting discipline later. Dependencies accumulate. Patterns diverge. The audit gap widens. By the time the regulator asks the question or the production failure surfaces, the debt has compounded to the point where remediation is a program, not a fix. Incidents routinely burn six figures. Systemic breaks reach seven. Under the wrong conditions, a regulatory deadline or a major platform upgrade, eight-figure losses are not unusual.

Three scenarios any capital markets practitioner will recognize:



New product launch

A new instrument is ready. The underlying platform upgrade required to support it triggers a cascade of failures in ungoverned bespoke components. The go-live slips. The next window is three months out, blocked by quarter-end and year-end freezes. By the time the product launches, a competitor has filled the gap. The revenue case no longer closes.



Regulatory deadline

Unlike a product launch, a regulatory go-live has no flexible window. A missed deadline means regulatory exposure, a remediation plan submitted under scrutiny, and a relationship with the regulator that takes years to repair.



Legacy decommission

The business case rested on replacing a legacy platform, eliminating its license cost, and freeing the teams maintaining it. When the go-live slips, the decommission cannot happen. The legacy renewal triggers. The infrastructure stays live. The business case collapses, not because the build was wrong, but because the governance was not there to land it cleanly.

In each scenario the firm does not just pay for the incident. It pays for the stranded legacy, the missed market opportunity, the strained client relationship, and the internal credibility spent. And it pays again at the next upgrade cycle, because nothing was fixed, only patched.

Where to Start

Three decisions, made before the next component goes live:



Map and monitor your seams. Identify every integration point between what you build and what you buy, including vendor APIs consumed informally by front-office teams. Most firms discover these connections during an incident, not before. A seam inventory is a living document, kept current through continuous monitoring of vendor upgrade cycles, API versioning, and end-of-life notices.



Define your patterns and gates. Establish the architectural guardrails and SDLC disciplines your teams build to, including PR reviews, security scanning, automated testing, and coding standards. Not as a compliance layer added after the fact, but as the operating norm from the first line of code.



Assign upgrade ownership. Define a named owner for every bespoke component to validate seams when underlying platforms or APIs change. Most firms assign ownership reactively, not proactively. Ownership must be established and tested before the vendor announces the next release, not after.

The advantage is no longer just who can build the most. It is who can build and remain in control as the system evolves around them. That is the difference between moving fast and building something that lasts.

The authors have spent a combined five decades leading capital markets technology programs, platform implementations, and fintech businesses across North America and internationally.

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Key Contacts:



Alberto Corvo
Managing Director

acorvo@alvarezandmarsal.com



Joe Iafigliola
Managing Director

jiafigliola@alvarezandmarsal.com

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