The Innovation Crisis in the Pharmaceutical Industry

Root Causes, Patterns, and Strategic Levers for Change

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Scientific progress has never moved faster – gene editing, cell therapies, mRNA platforms, and AI-driven discovery tools are redefining what medicine can do. These advancements hold immense promise for addressing previously intractable diseases and improving human health. Yet behind the headlines, a veritable crisis is unfolding: innovation is being thwarted where it matters most – at the interface between breakthrough science and real-world impact.

Despite record R&D investments and regulatory designations aimed at speeding access, the returns on innovation are declining. Development timelines are lengthening. Reimbursement hurdles are mounting. And far too many promising therapies falter — not because the science fails, but because the system does. The result is a growing disconnect between what is scientifically possible and what actually reaches pa-

tients, providers, and payers in a meaningful time-frame.

This paradox has wide-reaching consequences. For patients, it means longer waits for transformative treatments. For health systems, it adds cost without corresponding value. For investors and leadership teams, it exacerbates risks and erodes confidence in innovation as a sustainable growth engine.

This article explores the nature of this systemic innovation crisis — its symptoms, its root causes, and, crucially, the strategic levers available to those who want to do things differently. Drawing on recent data, regulatory trends, and industry case examples, we outline how pharmaceutical leaders can shift from reactive to orchestrated innovation — and why success now depends not just on inventing better drugs, but on reinventing the system that delivers them.

1. The Innovation Crisis - Symptoms & Warning Signs

Paradoxically, despite unprecedented scientific advancements, the pharmaceutical industry is facing declining returns on innovation. Despite breakthroughs in fields like gene therapy and artificial intelligence (AI), the route from discovery to patient access remains obstructed by systemic inefficiencies. Over the past decade, R&D costs have surged to an average of \$2.23 billion per approved drug, while the forecast internal rate of return (IRR) for top biopharma companies remains a fragile 5.9%.

This stagnation is exacerbated by the proliferation of "me-too" products, elongated development timelines, and fragmented stakeholder ecosystems. The consequences extend beyond corporate balance sheets: delayed therapies burden healthcare systems, erode investor confidence, and leave patients awaiting transformative treatments. This section dissects the symptoms of this crisis, drawing on recent financial analyses, regulatory challenges, and case studies to illuminate the structural barriers stifling innovation.

1.1 The Widening Cost-Productivity Chasm

he pharmaceutical industry's R&D model is increasingly constrained by **Eroom's Law** – the counterintuitive phenomenon where drug development costs double every nine years despite technological and scientific advancements. According to Deloitte's 2024 analysis, the top 20 biopharma companies now allocate an average of \$2.23 billion per approved asset, marking a 5% increase from the previous year. While the projected peak sales for late-stage pipeline products has climbed to \$510 million, this marginal gain is insufficient to offset the compounding costs of clinical trials, regulatory compliance, and therapeutic area competition.

Exacerbating this issue is the asymmetric risk distribution in drug development. Between 2001 and

2020, leading pharma companies invested an estimated \$6.7 billion annually in R&D but launched only 251 new drugs, the R&D efficiency being \$6.16 billion per approved therapy. This figure stood at \$4.7B in the 2010s, and just \$1.2B in the 1990s (adjusted for inflation).

High attrition rates remain a persistent drag on productivity. In 2024 alone, an estimated \$7.7 billion was spent on discontinued clinical candidates. Part of this has structural reasons due to the growing complexity in disease biology: Success rates in Phase III trials for areas like neurodegenerative diseases or rare diseases have plummeted to historic lows, extending payback periods, raising capital intensity, and deterring long-term investment.

1.2 The Me-Too Drug Epidemic

further indicator of innovation fatigue is the surge in me-too drugs that offer marginal clinical improvements over existing therapies. While me-too products can help mitigate drug shortages, they often represent low-risk commercial strategies rather than scientific breakthroughs. If a particular drug class (e.g., a cancer immunotherapy) proves

lucrative, a fast-follower strategy can be rational from a business standpoint.

But this trend carries hidden costs:

- **Opportunity cost**: Resources allocated to me-too development divert funding from truly novel therapies targeting unmet needs.
- Market saturation: Certain therapeutic areas like immuno-oncology now face overcrowding with look-alike treatments, often yielding diminishing incremental benefits.
- Reimbursement pressure: Payers increasingly reject premium pricing for products without demonstrable superiority, squeezing profit margins.

The result is an "innovation treadmill", where companies default to "safe" targets over moonshot projects. This not only reinforces investor caution, but leaves patients waiting for the next generation of therapies that never quite arrive.

1.3 The Valley of Death in Translation

Even when breakthroughs occur, the industry struggles to bridge the *translational gap* between preclinical discovery and clinical implementation. A significant challenge lies in the high attrition rates of biomedical innovations, with many failing to progress beyond preclinical stages due to mismatches between scientific ambition and realworld deployability. And althrough AI-driven drug discovery presents a potential to accelerate early-stage success rates — with their platforms' capacity to

screen billions of molecules *in silico* – progress is still hindered by validation challenges and regulatory skepticism.

Several bottlenecks account for this high attrition:

Regulatory inertia: Drug development still takes 10-12 years on average, with clinical trial stages consuming 6-7 years of that time. Agencies like the FDA and EMA still operate within approval frameworks designed for small molecules, ill-

suited to complex biologics and digital therapeutics

- > Stakeholder misalignment: Developers often neglect early engagement with health technology assessment (HTA) bodies, leading to post-approval reimbursement disputes. Late-stage pipeline product often lack concurrent value dossiers for payers.
- Implementation blindness: Advanced therapies, particularly cell and gene therapies, exemplify solutions engineered for efficacy but without sufficient consideration for their delivery. Ultracold chain requirements and specialized administration protocols render many treatments inaccessible in low-resource settings.

What results is not a failure of science, but a failure of translation — where promising therapies stall in the "no-man's-land" between discovery and delivery.



1.4 The Fragmentation Trap

pervasive challenge undermining innovation outcomes across the pharmaceutical R&D value chain is systemic fragmentation. There are substantial financial repercussions of this fragmentation, with \$7.7 billion spent on clinical trials for assets that were ultimately terminated by the top 20 pharmaceutical companies (2024 figure). The financial loss is exacerbated by poor cross-functional integration between research, medical affairs, and market access teams. This disconnection manifests in three critical areas:

- 1. Evidence generation: Clinical trials are frequently designed with the primary objective of securing regulatory approval, often at the expense of generating real-world endpoints that are crucial for successful payer negotiations. This creates significant evidence gaps. Real-World Evidence (RWE) is increasingly recognized as a powerful tool to bridge these gaps, offering valuable insights into comparative effectiveness and safety in routine clinical practice.
- 2. **Resource allocation**: Internal R&D budgets prioritize therapeutic areas with established commercial blueprints and predictable returns, starving

nascent fields like antimicrobial resistance, which represent areas of high unmet medical need but uncertain commercial viability. This approach stifles diversification into truly innovative, high-impact areas.

3. External collaboration: Despite a growing recognition of the immense value of open innovation and collaborative models, their adoption, particularly for platform-based co-creation with biotechs or academia, lags far behind industry endorsement. The reluctance is often attributed to concerns regarding intellectual property rights, resistance to adopting new R&D paradigms, and entrenched cultural and management style issues, which stall shared progress.

These symptoms don't merely slow innovation — they also compound its cost. Scientific potential is undermined by systemic inertia. Without integrated thinking across the chain of development, from lab bench to bedside, innovation becomes a patchwork of missed opportunities and duplicated efforts. The next section will explore how regulatory frameworks, stakeholder misalignments, and cultural factors interact to sustain this crisis.

2. Six Structural Barriers Undermining Pharma Innovation

he pharmaceutical industry's innovation crisis is not a failure of science — it's a failure of systemic coordination. Ballooning R&D costs, me-too saturation, and pipeline stagnation are merely surface symptoms of deeper structural fractures. These fractures persist because stakeholders

across the ecosystem operate under conflicting incentives, outdated frameworks, and misaligned timelines. Below, we dissect six root causes that collectively keep breakthrough science locked in a cycle of diminishing returns — and why overcoming them requires more than incremental adjustments.

2.1 Regulatory Overload: Frameworks Lag Behind Science

Regulatory systems, though essential for safe-guarding patient safety and data integrity, are increasingly misaligned with the nature of cutting-edge innovation. Cell and gene therapies, mRNA platforms, and AI-based diagnostics defy traditional approval models, which are still largely geared toward linear, single-molecule drug development. Consider the case of CAR-T therapies — personalized treatments requiring bespoke manufacturing and delivery protocols. Developers must navigate frameworks designed for mass-produced small molecules, leading to massive delays. Similarly, AI-



driven diagnostics like sepsis prediction algorithms are evaluated as static devices, despite their iterative, learning-based nature.

The direct consequences of this misalignment is slowed development, soaring costs and deterred investments in platform-based or cross-modal innovations. In Europe, one well-intended clinical trial directive led to a 90% increase in trial launch times and nearly doubled administrative costs for studies – illustrating how added rules, even if aimed at safety, can dramatically slow progress. Biotech executives see regulatory uncertainty as one of the top barriers to pursuing platform-based therapies, slowing development. Venture funding for gene therapy startups dropped significantly in recent years, partly due to regulatory unpredictability.

While initiatives like the FDA's **Project Optimus** (adaptive trial designs) and the EMA's **PRIME Scheme** (accelerated assessments) show promise, they remain niche solutions in a system still dominated by linear development and conservative approval logic. The deeper issue is procedural inertia: Regulatory approval workflows are often geared more toward minimizing risk than enabling therapeutic potential — especially for complex, crossmodal innovations.

2.2 Stakeholder Fragmentation: Everyone Pulling in Different Directions

Ecosystems around drug development have grown more complex — and more disconnected. Pharma must navigate a web of diverse stakeholders, with innovators, payers, providers, regulators, patient groups, and policymakers often having distinct priorities, different incentives, timelines, and definitions of "value."

- Developers pursue clinical endpoints and regulatory approval.
- Payers prioritize budget impact and real-world effectiveness.
- Patients seek access, support, and quality of life gains.

Policymakers focus on equity, public health, and system resilience.

This fragmentation means decision-making can become misaligned and sluggish. For example, in Europe the variations in national reimbursement systems lead to significant access disparities, with patients in some countries waiting up to seven times longer than those elsewhere to receive the same new medicine. Even within a single market, a drug can face multiple hurdles post-approval.

This misalignment leads to communication breakdowns and delayed uptake, even for genuinely innovative therapies. Without orchestration — especially in the pre-launch phase — products enter the market into a fragmented, and often unprepared, landscape.

2.3 Pricing and Reimbursement Uncertainty

The lack of predictability around pricing and reimbursement is introducing a major strategic risk in today's pharma landscape. Around the world, healthcare payers are under pressure to

control costs, and they are responding with tougher price negotiations and new policies. Even the historically high-revenue U.S. market is seeing unprecedented intervention: the recent Inflation Reduction Act empowers Medicare to negotiate prices on topselling drugs, a shift projected to cut certain drug prices by at least 50% and cap future revenue on those products. In Europe, meanwhile, stringent health technology assessments (HTA) and reference pricing agreements often dictate steep discounts. What's more HTA criteria differ widely across regions. Some markets reward incremental innovation; others penalize it. Manufacturers sometimes decide not to launch a drug in a given country at all if anticipated reimbursement is too low. For instance, in smaller EU markets, filing rates for new medicines have been as low as 9% because companies doubt the economic viability under local pricing conditions. New frameworks like *value-based pricing* or *out-come-based* contracts sound promising — but remain unevenly implemented. The volatility in reimbursement outcomes makes it difficult for pharma companies to forecast returns and set long-term strategies. Innovators are unsure how to position high-cost therapies, especially those with long-term or preventive benefits. The results are delayed uptake of therapies or limited patient reach due to pricing pushback. The uncertainty discourages bold bets and reinforces a bias toward short-cycle, low-risk projects.

2.4 Exit Over Execution: A Startup Economy That Stops at Phase II

In the biotech space, venture-backed startups are often built for exit, not for scale. Many are engineered to generate promising Phase I/II data, attract licensing deals or acquisition offers, and cash out before facing the complexities of manufacturing, reimbursement, or integration into care pathways.

This mindset is visible in how large pharma increasingly sources innovation externally: only about 28% of new drugs in recent years were discovered in-house by big pharma, with the rest originating from biotech companies or academic labs and later acquired or licensed In other words, many firms have shifted to *buying* innovation rather than building it, and conversely many startups design their R&D with the primary goal of being bought out.

This "exit-over-execution" mentality comes at a cost. Organizations are becoming more adept at pitching assets but less so at following through on development and commercialization. For example, numerous biotech startups aim to sell by Phase II, meaning they never develop the capabilities to run Phase III trials or launch a product. In big pharma, leaders can get drawn into continuous M&A pursuits or restructuring moves, instead of fixing operational



inefficiencies in the core business. The consequence is a growing disconnect between scientific innovation and system-level implementation. While M&A remains a legitimate path to scale, overreliance on this model has stifled continuity and left many innovations stranded in the "valley of potential".

2.5 Overengineering vs. User-Centered Design: Innovation Without Application

Pharma and healthcare technology organizations sometimes fall into the trap of overengineering – creating elaborate, technically sophisticated solutions that impress on paper but see poor adoption in the real-world. From digital health apps to medical devices, companies often miss the mark by focusing on narrow functionalities, failing to provide sustained value or engagement for patients. Overengineered offerings not only waste resources;

they can also frustrate patients and providers who become less inclined to try other digital interventions.

A user-centered approach would embed design thinking earlier in the development cycle – focusing not only on the molecule but on the *moment of use*: how the drug is delivered, understood, monitored, and experienced by patients and practitioners alike.

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2.6 Siloed Thinking: Too Late, Too Little Internal Alignment

Tithin many pharma organizations, the functions critical to successful innovation – R&D, Market Access, Medical Affairs, Commercial – remain siloed and sequential. When research, clinical, regulatory, commercial, and other teams fail to coordinate, it leads to avoidable friction, inconsistent goals, slow decision-making, and missed opportunities. A recent industry survey underscored this issue: 48% of senior pharma decision-makers said that internal data silos were derailing efficient cross-functional collaboration in their organizations.

In practice, siloed thinking might mean, for example, that the clinical development team designs a trial without input from the market access team, resulting in a study that meets regulatory requirements but doesn't collect the health-economic data critical for reimbursement discussions. To break down silos, many leading pharma firms are establishing cross-functional product teams and unified data platforms so that scientists, clinicians, and commercial strategists share information and objectives from day one.

True integration requires cross-functional collaboration from the outset. It means reframing innovation not just as a scientific endeavor, but as a systems challenge — where success depends on alignment, timing, and translation across the value chain.



These six forces are not isolated — they reinforce one another. Regulatory delays exacerbate investor caution. Fragmented stakeholders increase the temptation to chase me-too safety. Pricing uncertainty nudges companies toward short-termism. The result is a system that too often squanders its own breakthroughs.

Solving this isn't about finding a silver bullet. It's about *rethinking the operating model of pharmaceutical innovation itself* – from how therapies are conceived to how they are translated, aligned, priced, and adopted. The next section explores what companies can do to make that shift.

3. Strategic Levers for Companies: Bridging the Gap Between Science and System Impact

The pharmaceutical innovation crisis demands more than incremental adjustments — it requires a fundamental rethinking of how value is created and demonstrated. Below, we outline four strategic imperatives for companies aiming to break

the cycle of diminishing returns. Adopting these levers in a proactive and integrated approach can bridge the gap between scientific breakthroughs and their tangible impact on patients and healthcare systems.

3.1 Embed Market Access Early

vercoming stakeholder misalignment and reimbursement hurdles requires pharmaceutical companies to integrate market access considerations into the earliest stages of drug development. Treating market access as a Phase III checkbox is a recipe for friction and delays. Instead, innovators must integrate reimbursement logic into preclinical planning. This involves engaging early with health technology assessment (HTA) bodies, payers, and even patient advocacy groups to shape target product profiles, ensuring that clinical trial designs generate not only regulatory data but also real-world evidence crucial for value demonstration and payer negotiations. This should include early health economic modeling and budget impact assessments to ensure payer-relevant value is built into the clinical evidence package. By understanding payer needs and market dynamics from the outset, companies can design studies that capture relevant endpoints, anticipate reimbursement challenges, and build robust value dossiers, thereby increasing the likelihood of successful market entry and broad patient access.

Done well, this shift from sequential to concurrent planning can compress timelines, reduce post-

approval surprises, and ultimately accelerate patient access.

Actionable Framework:

- Phase I: Conduct parallel HTA mock assessments to identify evidence gaps and flag issues like lack of comparators or insufficient patient relevance.
- Phase II: Involve payers and HTA experts in protocol design to include endpoints such as quality-adjusted life years (QALYs), time to treatment discontinuation, or hospitalization reduction.
- Phase III: Pre-negotiate evidence-generation partnerships with providers to streamline real-world data (RWD) collection for early value dossier development.

Market access is no longer a downstream concern. Embedding it early enables smarter study designs, clearer value propositions, and more confident pricing strategies. For organizations willing to break silos and collaborate upstream, the payoff isn't just faster launch — it's broader, more sustainable access.

3.2 Map and Align Key Stakeholders

Hective innovation orchestration necessitates a comprehensive understanding and proactive alignment of all key stakeholders across the R&D and commercialization landscape. This involves identifying the diverse needs, incentives, and decision-making processes of regulators, payers, providers, and patients. Engaging early with patient groups, advocacy networks, and frontline healthcare professionals can surface usability barriers or unmet needs long before launch.

Strategies should include formalizing channels for continuous dialogue and collaboration, fostering shared understanding of value, and co-creating solutions that address the needs of the entire ecosystem. This approach can help mitigate regulatory divergence, reduce post-approval disputes, and ensure that therapies are designed not just for efficacy but also

therapies are designed not just for efficacy but also for practical deployability and accessibility within realworld healthcare settings.

Stakeholder misalignment isn't just inconvenient – it's costly. Most pipeline delays stem from unaddressed conflicts between developers, payers, and providers.



Critical Activities:

KOL Mapping: Identify *influencer archetypes* early. Know your *Science Champions* (e.g., academic researchers), *System Pragmatists* (e.g., hospital procurement chiefs), and *Policy Shapers* (e.g., HTA committee chairs, reimbursement advisors)

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- Narrative Engineering: Develop a unified evidence story adaptable to stakeholder priorities. A modular, adaptable value narrative can be tailored to regulatory submissions, payer dossiers, or patient communication. Consistency is key parallel communications that send mixed signals to regulators, payers, or patients can erode credibility and stall adoption.
- **Sentiment Monitoring:** Track stakeholder discourse across scientific forums, policy briefings,

publications, and social media. Use insights to fine-tune positioning and anticipate objections.

Stakeholder engagement should no be treated as a PR exercise — it is a strategic design principle. Usercentered intelligence helps teams design solutions that are not only evidence-rich, but also intuitive, welcomed, and practical in daily clinical settings. Teams that orchestrate alignment early reduce friction, accelerate adoption, and build durable trust across the ecosystem.

3.3 Strengthen internal translation capabilities

Bridging the so-called "Valley of Death" requires connecting scientific insight with system logic, i.e. strengthening internal capabilities for translating preclinical discoveries into clinical success and beyond. This involves investing in robust translational science, improving preclinical models (potentially leveraging New Approach Methodologies to reduce reliance on animal testing where appropriate), and enhancing the predictive power of early-stage research. Translational science is not a handoff — it's a continuous process of alignment between potential and practicability.

Furthermore, fostering strong cross-functional teams that integrate expertise from discovery, development, medical affairs, and market access is critical. Only when scientific potential is continuously evaluated against clinical feasibility, regulatory requirements, and commercial viability, can organizations accelerate "fail-fast" decisions and allocate resources more efficiently. Functional silos continue to cost the industry bilions in duplicated efforts, delays, and missed strategic opportunities.

This emphasis on execution is equally critical when assets originate from external partnerships or acquisitions. All too often, promising molecules or technologies stall after the deal is signed because internal teams lack the bandwidth, clarity, or mandate to advance them. Strengthening translational capabilities therefore includes building disciplined post-deal integration routines — ensuring that externally sourced innovation is quickly aligned with internal objectives, processes, and decision frameworks. Execution, not acquisition, is what ultimately creates value.

Operational Fixes:

Nun Cross-Functional Pre-Project Alignment Workshops between R&D, Medial Affairs and Market Access teams to define hard constraints (e.g., required budget impact thresholds or COGS ceilings) and strategic trade-offs (e.g., broader data vs. faster timelines).

- **Use Scenario-Based Playbooks** to guide teams through common roadblocks like payer discount demands or additional regulatory requests for justification with predefined levers such as outcome-based contracts tied to real-world performance or adaptive protocols.
- Tie Leadership Incentives to Shared Goals by linking a substantial portion of compensation to joint KPIs and objectives (e.g., aligned target product profiles, payer-relevant endpoints, or reduced handoff delays between clinical and commercial teams).
- Institutionalize Post-Deal Integration Routines to ensure externally sourced innovation is rapidly aligned with internal priorities, evidence standards, and go-to-market pathways. This includes early assignment of cross-functional teams, integration checkpoints, and accountability mechanisms for execution.

Translational leaders must adopt a posture to not only to move assets forward but to *shape the environment* they will enter. That means engaging early with regulatory agencies, anticipating payer objections, and laying the groundwork for downstream success before the first patient is dosed. Companies that treat translation as a team sport — not a relay race — are far better positioned to accelerate the right assets, stop the wrong ones early, and deliver therapies that are not only scientifically sound, but system-ready.



3.4 Shift from vertical pipelines to horizontal platforms

The traditional "vertical pipeline" model, where each drug candidate progresses independently through a linear development process, contributes to fragmentation and missed opportunities. It can lead to duplication and limited learning across programs. A more effective approach is emerging: "horizontal platforms" that leverage common technologies, data infrastructure, and collaborative models across multiple therapeutic areas or drug candidates. They enable organizations to share insight and risk, driving both efficiency and agility.

Horizontal approaches also support open innovation models connecting pharma with biotechs, tech companies, academia, startups, and even competitors in precompetitive spaces. While concerns around IP and cultural barriers remain, the value proposition is becoming clearer: shared platforms accelerate iteration, reduce cost per asset, and expand optionality.



Blueprint for Success:

- **Co-Creation Consortia**: Partner with academia, tech firms, and even competitors on precompetitive challenges.
- Rapid Discovery Platforms ("Fail-Fast" Shared Labs): Jointly fund exploratory research with "no fault" exit clauses.
- Platform Licensing: Monetize underutilized assets (e.g., AI algorithms, manufacturing tech) via non-exclusive licenses.

Early signals of this shift are already visible across the industry. Roche is exploring shared discovery infrastructure through its Genentech Exploratory Hub, Moderna is opening core technologies to partners via its mRNA Access program, and initiatives like the NeuroTech Alliance are pooling data across companies to accelerate progress in complex disease areas.

For pharma leaders, the shift from pipeline thinking to platform thinking is not a trend — it's a strategic pivot. Platforms transform innovation from a linear pursuit into a *scalable, system-aware* engine that is better equipped to navigate complexity, respond to disruption, and deliver patient impact at speed. Such structures enable organizations to evolve beyond individual products, creating lasting capabilities that compound over time.

4. What's Needed Now - Leadership for Systemic Reinvention

ddressing the systemic innovation crisis requires a profound shift in leadership mindset and organizational culture. It demands a move beyond conventional pipeline thinking to embrace a holistic approach that views innovation as a complex, interconnected system.

The traditional pipeline logic was linear and sequential: discover a promising molecule, shepherd it through development, secure approval, and scale. But the systemic challenges outlined in this article – regulatory drag, stakeholder misalignment, siloed execution – cannot be solved by pipeline efficiency alone. What's needed is a re-evaluation of how innovation is conceived and pursued. This calls for system leadership: the ability to aligne diverse actors around shared value creation, to navigate interdependent constraints, and to architect conditions in which innovation can achieve traction and sustained impact.

While the previous section addressed actionable levers, we now explore which mindset shifts actually enable these operational moves.



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Success hinges on:

- 1. **Proactive Negotiations**: Shaping stakeholder environments rather than reacting to them.
- 2. **Systemic Fluency**: Understanding how regulatory, reimbursement, and clinical realities intersect.

3. **Collaborative Courage**: Trading short-term control for long-term ecosystem leverage

These three capabilities will define the companies that not only survive the current transition, but emerge as architects or a more resilient and responsive innovation model. Each of these shifts is explored below.

4.1 From Reactive Execution to Proactive Orchestration

Istorically, teams have often reacted to regulatory requests, payer pushback, or stakeholder resistance after the fact — once options have narrowed and narratives were fixed. The current environment, however, demands a proactive and orechestrated approach. Future-ready companies invest upstream: shaping trial design with reimbursement in mind, engaging policy shapers before HTA review, and involving patients long before launch prep.

System orchestration requires elevating Medical Affairs and Market Access from downstream executors to strategic partners in decision-making. It means treating access, uptake, and impact as design variables — not downstream outcomes. The focus shifts from merely managing processes to actively creating value with a diverse network of stakeholders.

4.2 From Functional Expertise to Systemic Fluency

eep functional expertise is valuable, but it can reinforce organizational silos, thereby inadvertently stalling innovation. Cross-functional translation is essential. Leaders must cultivate systemic fluency: an understanding of how different functions and external partners interact and influence the overall innovation lifecycle. This includes connecting the dots across the entire value chain, recognizing the interdependencies between scientific discovery, clinical development, market access, regulatory and economic factors, and patient delivery.

A holistic view anticipates how upstream decisions reverberate downstream. Systemic fluency leads to optimized system-wide outcomes rather than fragmented departmental successes. Leaders need to be able to operate across domains and build trust across silos.



4.3 From Control to Collaborative Leverage

any pharma companies still view innovation as a proprietary race. But the most resilient platforms in other industries — tech, energy, sustainability — are built not on control, but on *ecosystem leverage*. There is a recognition that no single entity possesses all the necessary expertise or resources to solve today's complex medical challenges.

Leaders must cultivate partnerships not as a hedge, but as a core capability. This involves actively

seeking out and nurturing partnerships with biotechs, academia, technology companies, and even patient organizations.

While concerns around intellectual property have slowed the adoption of open innovation in the past, a new emphasis must be put on building collaborations that allow for shared risk, shared knowledge, and collective problem-solving. Precompetitive alliances or opening non-core IP to strategic partners could leverage capabilities and accelerate innovation.

Achieving collaborative leverage means building **structures that outlast single products** — and create value across cycles, partners, and patients. Leaders must empower teams and foster an environment that

encourages experimentation, iterative learning, and agile adaptation, even if this seems to carry a higher initial risk.

Leadership for systemic reinvention requires more than marginal efficiency gains. It demands a posture that is adaptive, integrative, and deliberately outward-looking. By cultivating orchestration, fluency, and ecosystem leverage, today's pharma leaders can build not just better products — but a better system for advancing them.

Conclusion

he pharmaceutical innovation crisis is real. It is characterized by a widening gap between scientific possibility and real-world patient impact. This crisis manifests in ballooning R&D costs, the proliferation of "me-too" drugs, persistent translational bottlenecks, and pervasive organizational fragmentation. These symptoms are driven by structural barriers including unfit regulatory frameworks, misaligned stakeholder incentives, and pricing uncertainties. The slowdown in innovation is not due to a lack of ideas, but a failure of integration.

To overcome the crisis, pharmaceutical leaders must look beyond the product and see the system. They must embrace a paradigm shift from reactive pipeline management to proactive coalition building and system leadership. They must dare to design for adoption and impact instead of merely approval.

Pharma needs not just more data, but more dialogue – and the courage to question the patterns and operating models that are no longer fit for purpose in an era of complex biologics, digital therapeutics, and personlized medicine. Those who combine scientific expertise with strategic fluency and stakeholder orchestration will not only accelerate innovation – they will shape the future of pharma itself.

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Hrvoje Zaric is a seasoned consulting professional with 25 years of experince in strategy execution, organizational change, and negotiation across global enterprises





Jens Kurth, PhD, is an experienced pharma executive with a strong track record in translating scientific innovation into market success, company building, and strategic partnerships across global markets



