



The Synthetic Lens: The Five Paradigm Shifts in AI-Driven Filmmaking

Introduction: Beyond Automation—A New Cinematic Operating System

The integration of generative artificial intelligence (AI) into the film industry represents more than an incremental technological update; it signals a fundamental rewriting of the entire operating system of content creation. While individual tools for script generation or visual effects enhancement are notable advancements, the true disruption lies in the systemic re-architecting of the filmmaking value chain, from initial concept to final distribution.¹ This transformation is not merely about automating existing tasks but about introducing entirely new workflows, economic models, and creative paradigms that were previously inconceivable.

This report analyzes the five most striking and surprising paradigm shifts emerging from the adoption of AI in filmmaking. These shifts are: the inversion of production economics, the rise of autonomous and cyclical workflows, the redefinition of creative roles, the emergence of a distinct synthetic aesthetic, and the profound paradox between democratized access and unprecedented risk. Understanding these interconnected transformations is critical for any stakeholder seeking to navigate the future of cinematic storytelling.

Table 1: Comparative Analysis of Filmmaking Paradigms: Traditional vs. AI-Native

Feature	Traditional Filmmaking Paradigm	AI-Native Filmmaking Paradigm
Economic Model	Capital-intensive, high-risk, long payback periods; dominated by physical production costs (labor, locations, equipment).	Compute-intensive, lower-risk, rapid iteration; dominated by computational resource costs (energy, data

		processing).
Core Workflow	Linear and sequential: script must be locked before storyboarding, which precedes shooting, which precedes post-production.	Cyclical and concurrent: generation, evaluation, and refinement occur in rapid, iterative loops; production phases blur into a single, dynamic process.
Key Creative Role	Director as on-set commander and originator of a fixed vision, managing large teams to execute a pre-defined plan.	Director as curator and visionary guide, directing AI systems through prompts, selection, and refinement of generated possibilities.
Dominant Aesthetic	Photorealistic or stylized, but fundamentally bound by the constraints of physics, budget, and logistical feasibility.	Synthetic and fluid, characterized by dreamlike morphing, surreal environments, and novel visual textures unbound by physical reality.
Primary Risks	Budget overruns, scheduling conflicts, physical production limitations, on-set accidents, and traditional IP protection.	Unresolved copyright liability (training data, authorship), digital likeness rights infringement, and the potential for formulaic, unaudienceable content.

I. The Great Inversion: Re-architecting the Economics of Content Creation

The most immediate and surprising impact of AI on filmmaking is not simply cost reduction but a complete inversion of the traditional production budget. This economic re-architecting is creating new business models, attracting different forms of capital, and realigning the global landscape of content production.

1.1 From On-Set Labor to Computational Resources

In traditional filmmaking, the physical production phase is the most resource-intensive, with on-set labor, logistics, and equipment accounting for as much as 70 to 80 percent of a project's budget.³ AI-native filmmaking fundamentally inverts this structure. The need for large physical crews, location rentals, and extensive equipment is drastically reduced, replaced by the computational costs of running powerful AI models.²

This shift is evidenced by dramatic cost-reduction forecasts and real-world examples. Morgan Stanley Research projects that generative AI can trim overall media-production expenses by 10 percent, with film and television costs falling by as much as 30 percent once the technology is fully integrated.⁴ Industry veteran Jeffrey Katzenberg offers a more radical prediction, forecasting a 90 percent reduction in both labor and schedule for high-end animation as AI pipelines mature.⁴ Concrete examples are already validating these projections. OpenAI's backing of *Critterz*, an almost fully AI-generated animated feature, aims for a nine-month production schedule and a budget under \$30 million—a fraction of the time and cost of a traditional animated blockbuster.⁴ Similarly, Netflix utilized generative tools for a complex collapsing-building sequence in its series *El Eternauta*, completing the shot "10 times faster" than with conventional VFX methods.⁴ This economic transformation is perhaps best quantified by the potential change in cost per minute for episodic television, which could plummet from a traditional range of \$30,000–\$70,000 to below \$5,000 in an AI-native workflow.³

1.2 The "Flywheel" Business Model and the Disruption of SVOD

This dramatic cost reduction enables a surprising second-order effect: the emergence of a new business model that could disrupt the current industry standard of Subscription Video-on-Demand (SVOD). With production costs minimized, a "flywheel" model becomes viable: creators produce a high volume of content, which attracts and grows audiences; this larger audience then draws in advertisers, whose revenue is reinvested to fund the creation of even more content.³ The logical endpoint of this self-sustaining loop is a scenario where most premium content could become free to the consumer, supported entirely by advertising. This poses a direct and significant threat to the SVOD model, which is already contending with market saturation and subscriber fatigue.³



1.3 Democratization and the New Capital Landscape

While AI's potential to democratize filmmaking by giving independent creators access to studio-level tools is widely discussed ¹, a more surprising consequence is its impact on the investment landscape. The high-risk, long-payback nature of traditional film financing has historically been a barrier for many investors. AI-native studios, with budgets that more closely resemble mid-range software projects than blockbuster films, are attracting a new class of capital from venture funds that previously avoided the entertainment sector.⁴ This influx of tech-focused investment will likely introduce new metrics for success, different risk appetites, and a greater emphasis on scalability and intellectual property ecosystems.

This economic shift also has geopolitical implications. The primary cost driver for AI filmmaking is not human labor but the energy required to power data centers. Consequently, the most attractive locations for future production hubs may not be those offering tax credits for on-set labor, but rather regions that can provide cheap, reliable, and preferably renewable energy, coupled with flexible data-sovereignty rules.⁴ Areas like Canada's Hydro-Québec corridor are positioning themselves to become the "New Hollywoods" of the AI era, potentially drawing productions away from traditional centers in the U.S. and Europe.⁴ This geographic realignment, driven by the shift from a labor-centric to a compute-centric cost model, represents a fundamental change in the global distribution of production power.

II. The Autonomous Studio: From Linear Process to Agentic, Cyclical Workflow

Beyond economics, AI is instigating a radical transformation of the creative process itself. The traditional, sequential production pipeline is being replaced by a highly iterative, concurrent, and increasingly autonomous workflow that blurs the lines between pre-production, production, and post-production.

2.1 The Rise of Agentic Systems



The most profound evolution in workflow is the emergence of "Agentic systems," which are not merely tools for automation but collaborative frameworks of specialized AI components that autonomously delegate, evaluate, and iterate on creative tasks.⁶ This approach is described as "a new path forward for filmmaking".⁶ In such a system, a single prompt can initiate a cascade of actions performed by an "orchestra" of AI agents that mimic a full production team. This includes a "narrative architect" that expands a story idea into a structured storyboard, followed by a trio of production agents⁶:

- **The AI Director of Photography (DoP):** Translates the narrative concepts from the storyboard into detailed, technical prompts for the video generation model.
- **The Critic Agent:** A multimodal vision model that assesses the generated video clips against professional metrics such as visual aesthetics, motion naturalness, and technical fidelity.
- **The Optimizer Agent:** Refines the DoP's original prompt based on the feedback from the Critic Agent to correct flaws and improve the output.

This entire creative feedback loop—which in a traditional process would involve a director reviewing dailies, consulting with department heads, giving notes, and scheduling reshoots over days or weeks—is compressed into minutes and executed "entirely in silicon".⁶

2.2 From Static Blueprint to Dynamic Adaptation

In this new paradigm, foundational creative documents like the script and storyboard are transformed from static blueprints into "living documents".⁶ The system is capable of ensuring continuity by passing the final frame of one generated shot as an input for the next, a technique known as Image-to-Video prompting.⁶ Even more surprisingly, these systems can perform "dynamic storyboarding." After a final version of a shot is selected, the AI analyzes it and can dynamically rewrite the description for the *next* shot in the sequence to better align with what was actually generated.⁶ This allows narrative and visual coherence to emerge organically from the generative process, rather than being rigidly imposed from the start. This creates a form of improvisational storytelling where the final narrative is discovered through the act of creation, a process that mirrors experimental techniques where filmmakers work iteratively and allow unexpected visuals to inspire new directions.⁷

2.3 The Technological Leap to Spatially-Aware 3D Frameworks

The coherence and cinematic logic of these advanced workflows are enabled by a critical, non-obvious technological shift away from simple 2D, frame-by-frame video generation. Early generative video models often produce outputs with noticeable flicker, drift, and visual inconsistencies because each frame is generated in relative isolation.³ This limitation is a key reason why much early AI-generated film has adopted a cartoonish or surreal aesthetic, where such inconsistencies are less jarring to the viewer.⁹

The surprising and essential leap forward is the move to a spatially-aware 3D framework.³ This approach ensures continuity and makes cinematic grammar possible by building scenes from a consistent 3D environment. This is achieved through a process of **digitisation** (converting all assets into manipulable digital entities), **decomposition** (breaking assets into independently controllable components like facial expressions or lighting), and **compositing** (layering these elements within a cinematic timeline).³ Key enabling technologies like Neural Radiance Fields (NeRFs) and 3D Gaussian Splatting allow filmmakers to construct these controllable 3D scenes from a handful of 2D images, providing the stable foundation needed for consistent and logical shot sequencing.⁹ This shift from isolated 2D frames to a persistent 3D world is the technical backbone that makes truly cinematic AI filmmaking possible.

III. The Director as Curator: Redefining Human Creativity in an Age of Synthesis

Contrary to widespread fears of creative replacement, the rise of AI is redefining the role of the human filmmaker. The most surprising shift is from the creator as the sole originator of ideas to the creator as a curator, taste-maker, and visionary guide for powerful generative systems.

3.1 Directing the AI, Not the Set

In an AI-driven workflow, the filmmaker's core function transitions from managing the physical logistics of a set to directing the AI itself.¹⁰ While the tools have changed, the creative vision, taste, and storytelling instincts remain fundamentally human.¹⁰ The new role is increasingly that of a "curator".² The AI can generate a vast universe of possibilities—countless narrative threads, character designs, and visual styles—and the critical human skill becomes the ability to select, refine, and assemble these generated elements into a coherent and compelling



whole.¹ The craft evolves to encompass sophisticated prompt engineering and iterative refinement, a process that can require "hundreds of prompt refinements" to achieve the desired lensing, mood, and emotional tone.¹³ The human provides the intentionality and artistic judgment that the algorithm lacks.¹⁰

3.2 The Hybrid Workflow as the New Standard

The most effective and engaging model emerging from this new landscape is not one of total automation but of human-machine collaboration. The consensus among practitioners and analysts is that AI will augment, rather than replace, human creativity.¹ AI excels at tasks requiring scale, volume, and technical complexity, such as world-building and generating visual effects, while human artists remain indispensable for providing nuance, emotional depth, and cultural authenticity.² This is supported by audience data; test screenings indicate that hybrid workflows, which use AI for technical aspects like layout and lighting but rely on humans for key character animation and emotional performance, achieve higher engagement scores than fully synthetic scenes.⁴ Consequently, this hybrid approach is becoming the industry norm, with directors using AI for pre-visualization before working with human crews, and editors using AI for rough cuts before applying their own craft for the final polish.²

3.3 Solving the "Uncanny Valley" of Emotion and Physics

This hybrid model is also the pragmatic solution to the current limitations of generative AI. AI models still struggle to replicate complex human emotions and interactions, such as intimacy or conflict, often revealing their "brittleness" in such scenes.³ They also lack an intuitive understanding of physics, finding it difficult to realistically portray concepts like speed, gravity, and cause-and-effect.³ The solution is to hybridize the process by combining real-world data with synthetic rendering. For instance, to teach an AI how a character should jump into a pool, a director can provide it with a real video clip of the action, which the AI then uses to generate a physically accurate animation for a digital double.³ Similarly, to capture authentic emotion, the performances of human actors can be recorded and used to drive the facial expressions and movements of AI characters, bridging the gap between synthetic visuals and the human "soul" of the film.³

This evolving dynamic suggests that as AI democratizes the technical tools of production, the primary differentiator will no longer be access to resources but creative taste. The market will

likely be flooded with mediocre, formulaic content generated by users with "untrained eyes".¹² In this environment, the value of experienced creators with honed artistic judgment and a unique vision will increase, as they will be the ones capable of guiding AI systems to produce truly exceptional and original work.¹²

IV. The Emergence of a Synthetic Aesthetic: AI as a Genre, Not Just a Tool

A surprising development in AI filmmaking is that the technology is not just a neutral means of production; it is giving rise to a distinct cinematic language and aesthetic. This "AI style" is rapidly moving from being perceived as a technical limitation to being embraced as a deliberate artistic choice, leading to the institutionalization of AI cinema as a new genre in its own right.

4.1 Defining the "AI Style"

Filmmakers and critics are beginning to define AI's output as a "new cinematic register" with its own unique stylistic affordances, comparable in significance to the historical arrival of color film or CGI.¹² This aesthetic is characterized by repeatable visual primitives that are distinct from traditional cinematography or visual effects.¹³ Key characteristics of this emerging "AI style" include:

- **Dreamlike, diffusion-based morphing effects**, where objects and scenes transform into one another with a fluid, surreal logic.⁹
- **Surreal and fragmented visual environments**, often created with technologies like Gaussian Splatting, that can evoke the feeling of fading memories or distorted dreams.¹⁶
- **Novel texture mixes and hybrid creature designs** that combine elements in ways that are visually arresting and often unsettling.¹³
- The generation of **abstract visuals and "unworldly objects"** that defy conventional physics and design principles.⁹

4.2 From Technical Flaw to Artistic Choice

Initially, the surreal and sometimes inconsistent nature of AI-generated visuals was viewed as a technical flaw. This led many early creators to adopt cartoonish or highly stylized aesthetics, where visual inconsistencies would be less noticeable and more easily accepted by the audience.⁹ However, this perception is rapidly evolving. Experimental filmmakers are now deliberately leveraging these unique visual properties as a form of artistic expression, creating sensory experiences that would be impossible to achieve with traditional methods.¹⁷ This shift is exemplified in the work of artists like Paul Trillo, whose film *Thank You For Not Answering* uses AI to create a poignant and visually unique exploration of memory¹⁸, and Francesca Fini, who employs a method of "vibe prompting" to engage in a creative dialogue with the AI, allowing dreamlike narratives to unfold organically without a traditional script.⁸

4.3 The Institutionalization of AI Cinema

The surprising speed at which this new aesthetic is being formalized and legitimized is a clear indicator of its growing significance. A global ecosystem of dedicated AI film festivals has emerged, including Runway's AIFF (which now has screenings in IMAX theaters), the AI Film and Art Festival in Arizona, the Seattle AI Film Festival, and the AI for Good Film Festival.¹⁹ These festivals provide a crucial platform for showcasing, curating, and awarding works created in this new medium. The success of films like director Kwon Han-si's *One More Pumpkin*, which won top prizes at an international AI film festival, demonstrates that this new aesthetic is already being validated by established juries.¹³ Furthermore, these festivals are beginning to codify the craft by asking filmmakers to document their "toolchain"—the specific models, prompts, and seeds used in their process—thereby distinguishing intentional, directed artistry from random generation and marking the transition of AI filmmaking from a mere experiment to a reproducible craft.¹³

V. The Paradox of Progress: Unprecedented Access Meets Uncharted Risk

The final and most striking aspect of AI filmmaking is a central paradox: while the technology offers unprecedented access and democratization, it simultaneously introduces profound and uncharted legal and ethical risks. This has created a deep divide in adoption rates and a

complex landscape of opportunity and peril.

5.1 The Great Divide: Studio Caution vs. Indie Acceleration

A significant divergence in adoption strategy has emerged between major studios and independent creators. While independents, social media creators, and smaller production houses are rapidly embracing generative AI, drawn by its speed, low cost, and creative potential, major Hollywood studios are proceeding with extreme caution.¹⁴ Deloitte predicts that in 2025, major studios in the U.S. and EU will allocate less than 3 percent of their production budgets to generative AI for direct content creation.²⁴ This hesitancy stems from fears surrounding immature tools and, more critically, unresolved intellectual property risks. This creates a surprising situation where the technology that could provide the largest incumbents with a massive efficiency advantage is instead being pioneered by agile, independent players, who are leading the way in creative exploration and potentially capturing audience attention that studios are at risk of losing.²⁴

5.2 The Copyright Conundrum: Authorship and Training Data

The caution of major studios is rooted in two fundamental, unresolved copyright challenges that represent a potential legal minefield.

- **Authorship:** The U.S. Copyright Act requires "human authorship" for a work to be protected.²⁵ The U.S. Copyright Office has consistently affirmed that merely entering a text prompt into a generative system is insufficient to claim authorship of the output.²⁶ Copyright protection may be granted if a human creatively "selects and arranges" AI-generated material or makes significant modifications to it, but the threshold for what constitutes sufficient human input remains dangerously ambiguous.²⁶ For studios, whose entire business model is built on creating and defending valuable, copyrightable IP, this uncertainty makes large-scale investment in purely generative content untenable.²⁴
- **Training Data:** An even greater legal threat lies in the provenance of the AI models themselves. Most of the powerful, publicly available generative models were trained on vast datasets containing billions of images, texts, and videos scraped from the internet, much of which is copyrighted material used without permission from the original creators.²⁹ A studio that uses the output of such a model in a commercial film could be held liable for mass copyright infringement, facing claims from every artist whose work



was part of the model's training data.⁴ This represents a ticking legal time bomb that studios are unwilling to risk.

5.3 The Battle for Digital Likeness: Consent, Compensation, and Control

The ability of AI to create hyper-realistic "digital replicas" of performers has opened a critical new front in the battle for talent rights. This issue became a central flashpoint in the 2023 Hollywood writers' and actors' strikes, where unions fought to establish clear guardrails around the use of AI.⁴ The core principles established by unions like SAG-AFTRA are now shaping contracts and legislation: **Consent** (explicit, written approval for any replication), **Compensation** (fair payment for the use of a digital likeness), and **Control** (the performer's right to refuse replication and limit its use).³¹ This has spurred a legislative response, with the proposed federal NO FAKES Act and new state laws, such as California's AB 1836 and AB 2602, which render contract clauses that enable the use of digital replicas without informed consent and proper representation unenforceable.³² This rapidly evolving legal framework creates a complex compliance burden for producers and is fundamentally reshaping talent negotiations.

The immense legal risks associated with training data and copyright are creating a clear market need for a new class of "indemnified AI" tools. This will likely lead to a two-tiered market: on one side, cheap but legally risky public models used by independents, and on the other, premium, enterprise-grade models from vendors like Adobe and Getty, which are trained exclusively on licensed content and come with contractual indemnification against copyright claims.²⁵ For major studios, the ability to secure this legal protection will be a prerequisite for adoption.

Conclusion: Navigating the Next Cinematic Frontier

The advent of generative AI is not a singular event but a cascade of interconnected paradigm shifts that are reshaping the art and business of filmmaking. The five transformations analyzed in this report—the inversion of production economics, the automation of creative workflows, the redefinition of the director's role, the birth of a synthetic aesthetic, and the paradox of access versus risk—are not independent trends but components of a new

cinematic operating system.

For stakeholders across the industry, navigating this frontier requires a strategic understanding that moves beyond the capabilities of individual tools. The economic inversion demands a re-evaluation of business models, investment theses, and even the geographic centers of production. The rise of autonomous, cyclical workflows necessitates a complete rethinking of the production pipeline and the very philosophy of how a film is made. The evolution of the creative role from originator to curator places a new premium on human taste and vision as the ultimate differentiators in a sea of synthetic content. The emergence of an AI aesthetic presents both a new genre for artistic exploration and a new critical language for audiences and critics to learn. Finally, the profound legal and ethical risks surrounding copyright and digital likeness create a complex, high-stakes environment where innovation must be balanced with compliance.

The future of filmmaking will not be one of simple human replacement but of complex, often surprising, human-machine integration. The organizations and creators who will thrive in this new era will be those who understand these structural changes and can strategically harness the power of AI not just to automate the old ways of working, but to invent entirely new ways of telling stories.

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