

CTV + OTT in the US Market

The C-Suite Transformation Guide

From Streaming Growth to Sustainable Profitability: A **Strategic Blueprint** for Media Leaders, CMOs, CFOs, and Market Entrants



STRATEGIC INSIGHTS

Navigate the streaming-first future with confidence.



PROFITABILITY FOCUS

Shift from growth at any cost to sustainable value creation.



ADVERTISING INNOVATION

Unlock the next wave of measurable, performance-driven revenue.



AI-NATIVE OPERATIONS

Leverage AI to optimize decisions, experiences, and outcomes.



FUTURE-READY LEADERSHIP

Build resilient businesses for 2026-2030 and beyond.

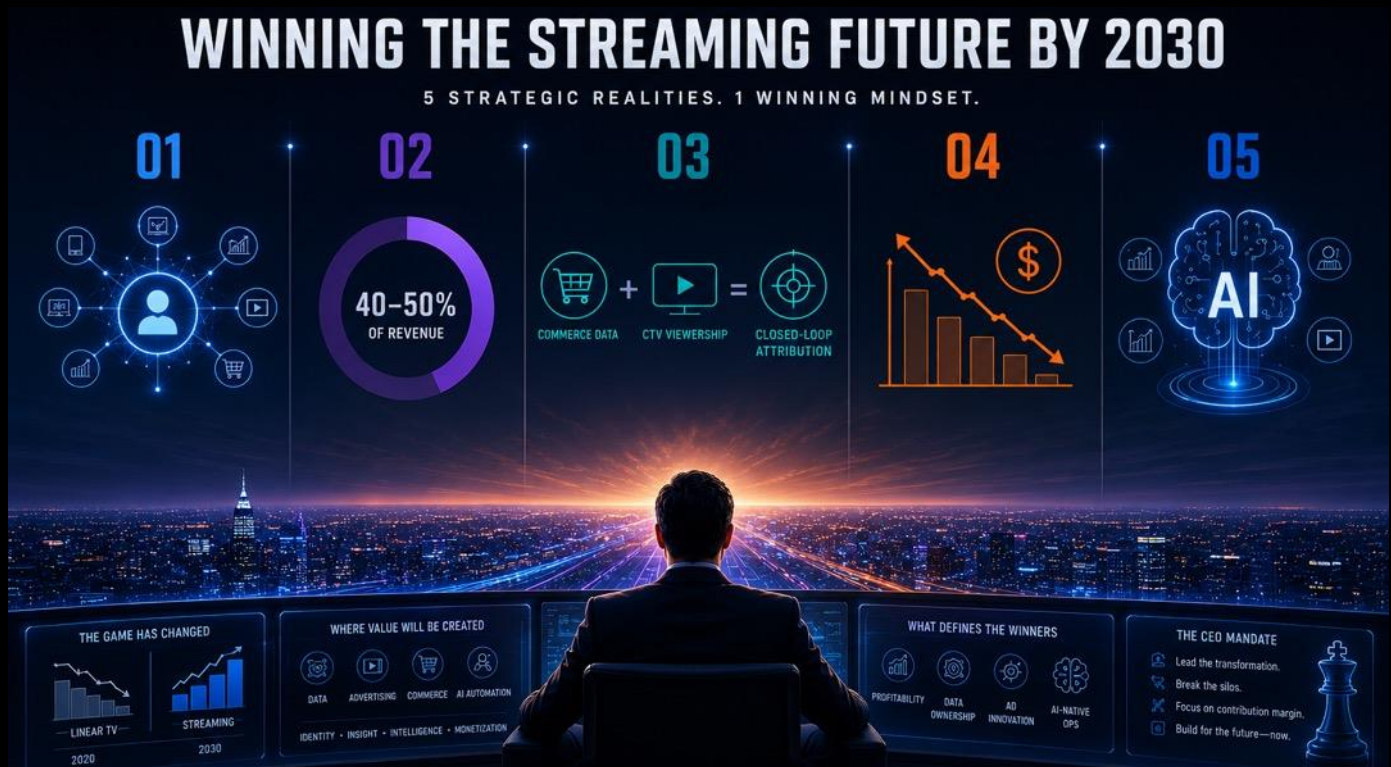
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CEO Brief: 5 Strategic Realities Defining Streaming by 2030

The streaming wars are over, and the battlefield is littered with the balance sheets of companies that mistook subscriber growth for business health. We have entered a new era where the victors will be defined not by how many subscribers they have, but by the hard, unforgiving metric of contribution margin per user. If you are still managing your streaming business as a distribution extension of a linear legacy, you are already losing.



Five undeniable realities will separate the winners from the forgotten:

- 1. Streaming is not a distribution business—it is a data business.** Your content library is a cost of goods sold. Your first-party data graph is the actual enterprise value. Control of identity is control of revenue. Without it, you are a wholesale commodity supplier to aggregators.
- 2. Ad-supported economics will not just dominate mass-market streaming—they will consume it.** Pure subscription is a premium niche for perhaps three global players. For everyone else, 40–50% of revenue must come from advertising, or the unit economics simply do not close.
- 3. Retailers will become more powerful advertising platforms than traditional broadcasters within five years.** The convergence of purchase data with CTV viewership creates a closed-loop attribution model that makes legacy brand advertising look obsolete. Walmart-Vizio is a proof of concept.

Amazon is already living this reality. If you are a pure-play media streamer without a commerce data partner, you are competitively naked.

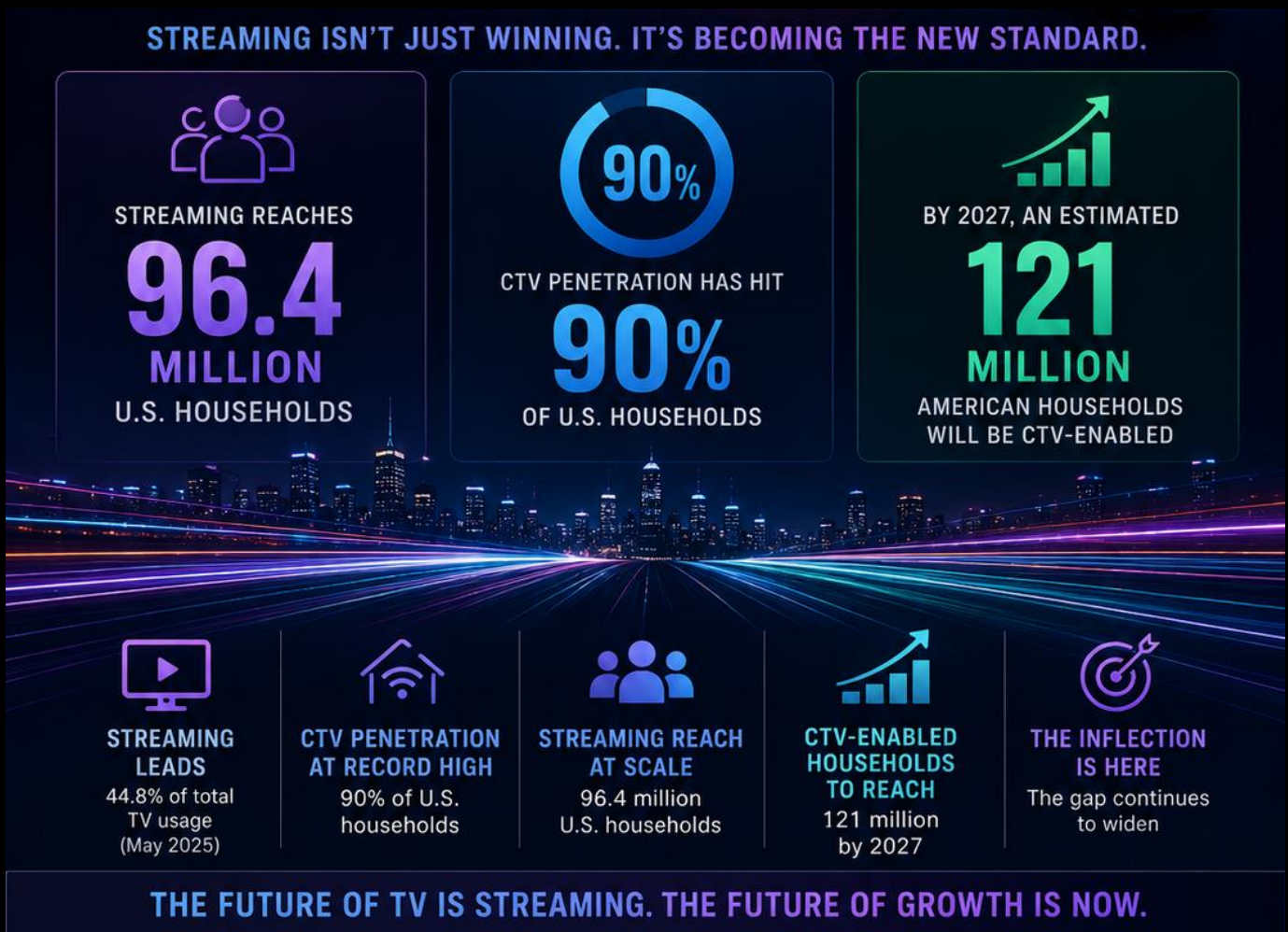
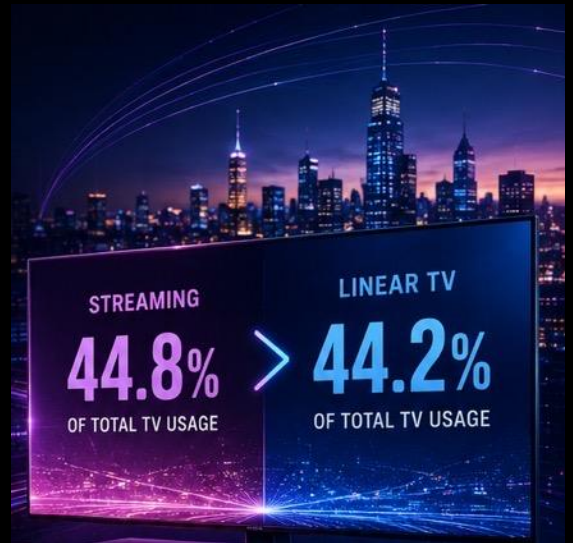
- 4. Profitability discipline will replace subscriber obsession—or capital markets will do it for you.** Every content greenlight, every ad load decision, every bundle partnership will be judged by its impact on contribution margin. The era of “growth at any cost” is dead; its ghost is haunting every company that hasn’t pivoted.
- 5. AI will not optimize your business; it will run it.** The difference between a traditional streamer and an AI-native platform is the difference between a factory and a craft workshop. Companies that do not embed AI into ad yield, churn prediction, and content ROI by 2027 will not exist in their current form by 2030.

What CEOs Must Do in the Next 24 Months

- Mandate a unified data and identity strategy that physically and culturally breaks the silos between marketing, programming, and ad sales. This is not an IT project; it is a leadership mandate.
- Authorize the creation of a centralized Revenue Operations (RevOps) function with real-time P&L authority over all monetization streams.
- Initiate a ruthless strategic review of all content spending through a contribution-margin lens. If a title does not drive subscriber acquisition, retention, or ad revenue, cut it.
- Personally sponsor an AI-native operational pilot in advertising yield or predictive churn. The goal is not an experiment; it is to signal to the entire organization that the old way of working is dead.

Executive Summary

The United States connected TV (CTV) and over-the-top (OTT) media marketplace has reached an inflection point of historic proportions. In May 2025, streaming officially surpassed linear television for the first time in history, capturing 44.8% of total TV usage compared to broadcast and cable's combined 44.2%—a gap that has since continued to widen. Today, streaming reaches 96.4 million U.S. households, and CTV penetration has hit a record 90% of U.S. households. By 2027, an estimated 121 million American households will be CTV-enabled.



This whitepaper serves two distinct audiences with equal rigor:

- **For CXOs and strategic decision-makers:** A comprehensive analysis of market dynamics, competitive landscapes, and actionable strategic frameworks to navigate the streaming-first future.
- **For newcomers and market entrants:** A foundational "bible" covering the technical, commercial, and operational essentials of entering the CTV/OTT ecosystem.

The central thesis of this whitepaper is that **the CTV/OTT industry has moved beyond the era of subscriber growth at any cost.** The defining battlegrounds of 2026–2030 will be profitability, advertising innovation, measurement accountability, and strategic differentiation across increasingly sophisticated hybrid revenue models.

Part I: Market Landscape & Consumer Behaviour

1.1 The Scale of the US Streaming Market

The US stands as the world’s largest and most mature streaming market, commanding leadership across every major segment. According to Omdia, the US accounts for 53% of global subscription video-on-demand (SVOD) revenues (approximately \$181 billion), 80% of global free ad-supported TV (FAST) revenues (\$6 billion), and 70% of global CTV advertising revenue (\$48 billion).

SVOD now reaches 91% of U.S. internet households, while traditional pay-TV has declined to 41% of households—representing a complete inversion of the media landscape in less than a decade. Collectively, streaming services now reach 96% of U.S. households. For perspective, SVOD penetration now rivals the peak penetration rate of traditional pay-TV (88%), and SVOD penetration actually surpassed traditional pay-TV in households as early as 2019.

Key Penetration Metrics (2025–2026):

METRIC	VALUE	SOURCE	PERIOD
 US households using CTV at least monthly	 90%	 Omdia	 2025
 SVOD penetration of U.S. internet households	 91%	 Omdia	 2025
 SVOD household penetration	 69%	 Omdia	 Q4 2025
 AVOD household penetration	 68%	 Omdia	 Q4 2025
 CTV households (current)	~117 MILLION	 Omdia	 2025
 CTV households by 2027	121 MILLION	 Omdia	 Projected

🔑 What this means for CXOs:

A 90% CTV penetration rate means the acquisition game is over. Your 2026–2027 KPIs must shift from "new subscribers" to **engagement depth, ad revenue per user, and retention efficiency**. The 32% who still default to live TV are the most valuable switching target—but they are also the most expensive to acquire. Chase them at your peril if your unit economics are not already hardened.

1.2 The Shift from Linear to Streaming

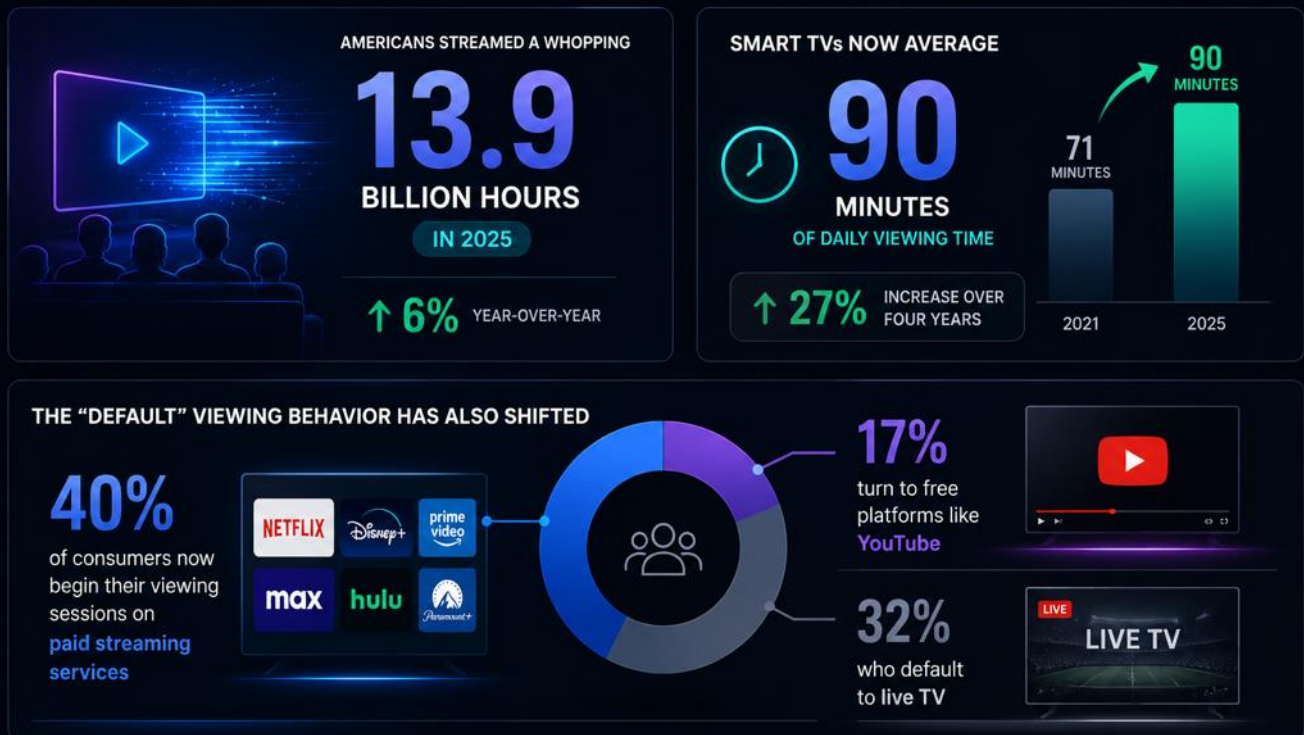
The streaming overtaking of linear television in May 2025 marked a historic milestone. Nielsen data confirms that streaming has since maintained and expanded its lead. According to Nielsen's monthly *The Gauge* report, streaming represented 44.8% of TV viewership in May 2025, its largest share to date. In contrast, broadcast (20.1%) and cable (24.1%) combined to represent 44.2% of linear TV. As Nielsen CEO Karthik Rao stated, "It's fitting that this inflection point coincides with the four-year anniversary of Nielsen's *The Gauge*."

This transition is not merely a statistical curiosity—it fundamentally changes how advertising dollars flow, how content is valued, and how consumer attention is captured and retained.

Traditional broadcast and cable TV advertising is forecast to decline, while CTV ad spend in the US is projected to reach \$38 billion in 2026, representing approximately 40% of total TV ad spend. Industry analysts forecast CTV ad spending to surpass traditional TV ad spending by 2028.

DAILY VIEWING BEHAVIOR SHIFT

Americans are streaming more, watching longer, and choosing digital-first.



Part II: The Four Revenue Models of Streaming

Modern streaming economics operates across four distinct but increasingly interconnected revenue models. Understanding their interplay is essential for any market participant.

2.1 Subscription Video-on-Demand (SVOD)

SVOD remains the foundational model, though growth has slowed as market saturation approaches. By the end of 2025, 69% of U.S. internet households were tuning in to at least one ad-supported streaming option. Key dynamics:

- **Bundle subscriptions** are becoming dominant: over 30% of subscriptions are now purchased via third parties, with 77% of subscription leaders prioritizing indirect acquisition channels. For Disney+, 95% of gross additions in February 2026 were via bundled plans.
- **Churn remains elevated**, with the average Roku user regularly bouncing between nine apps, and households adding and dropping about four apps over the course of the year—demonstrating that today's viewers are all about rotation and churn when it comes to curating their content.

2.2 Ad-Supported Video-on-Demand (AVOD)

AVOD has transformed from a secondary offering to a primary growth engine. Netflix's ad-supported tier now has 94 million users (35% of U.S. subscribers), driving 2025 ad revenue to \$1.14 billion—surpassing Disney+—via global reach and engagement. By mid-2025, this tier had attracted over 15 million new global subscribers, significantly exceeding initial projections, and as of November 2025, the ad-supported plan has expanded its reach to 190 million global monthly active viewers. Forty-five percent of Netflix viewing now occurs on its ad tier.

Hulu leads AVOD market share among SVOD services at 24%, followed by Peacock (22%), Netflix (15%), Paramount+ and Disney+ (14% each), and Max (8%).

Amazon Prime Video's ad tier has reached 130 million U.S. customers (up from 115 million in 2024) and 315 million monthly viewers globally, representing one of the fastest shifts toward ad-driven streaming in the industry.

2.3 Free Ad-Supported Streaming TV (FAST)

FAST represents the fastest-growing segment by engagement metrics. Total US hours spent watching FAST services reached 1.8 billion in August 2025, up 43% year-over-year. Average FAST channel session duration increased 25%, and viewers are exploring more channels than they did a year ago. Forty-five percent of U.S. internet households now watch FAST services, though growth has leveled off after rapid earlier expansion—a signal that advertisers will need smarter targeting and integration to maintain engagement.

The US dominates the global FAST market with 80% share of global FAST revenues. The model offers over 1,600 channels providing scalable, low-cost access, outpacing subscription services in viewer growth velocity.

2.4 Transactional Video-on-Demand (TVOD)

TVOD remains a niche but persistent model for premium content releases, early window access, and library specialty titles. While dwarfed by subscription and ad-supported models, TVOD serves as a strategic tool for windowing strategies and direct-to-consumer monetization of high-value content.

2.5 The Hybrid Model Imperative

No single revenue model is sufficient for sustainable profitability. The industry consensus has converged on **hybrid models** as the path forward. Netflix—historically the purest SVOD player—has aggressively pivoted to AVOD. Disney+ has followed. Amazon Prime Video made ads the default experience. Even Apple TV+ is exploring advertising.

For CXOs, the strategic question is no longer *whether* to adopt multiple revenue models, but *how* to calibrate the optimal mix for each content vertical, customer segment, and market. For newcomers, the entry point increasingly requires competence across at least two models from launch. The days of a clean, subscription-only P&L are a luxury you cannot afford.

2.6 Streaming Economics: The Path to Profitability

Unit economics have replaced top-line growth as the boardroom obsession. Below is a breakdown of the real numbers.

 ARPU BREAKDOWN: SVOD vs AVOD vs HYBRID Revenue models. User economics. Strategic implications.			
METRIC	SVOD (Subscription Video on Demand)	AVOD (Advertising Video on Demand)	HYBRID (Ad-Supported + Subscription)
 ARPU (2025)	\$104.26 per year	\$9.55 per year	\$71.33 per year
 YoY Growth (2024–2025)	↑ 4.6%	↑ 15.6%	↑ 11.2%
 Revenue Composition (2025)	100% Subscription	100% Advertising	~50% Subscription ~50% Advertising
 Global Users (2025)	1.73 BILLION	2.56 BILLION	0.78 BILLION
 Implied Total Revenue (2025)	~\$180 BILLION	~\$24 BILLION	~\$56 BILLION
 Typical Examples	NETFLIX  max	tubi  freevee	hulu  Paramount+
 KEY TAKEAWAY SVOD leads in ARPU, AVOD wins on scale, and Hybrid balances both—creating the most flexible path to long-term monetization.  SVOD: Highest ARPU, subscription-powered stickiness.  AVOD: Massive reach, ad-driven scale economics.  Hybrid: Best of both worlds, diversified revenue resilience.			

What this means: AVOD/hybrid models often generate **lower total ARPU** than premium SVOD in the short term. However, they dramatically expand total addressable market (TAM) and reduce churn. Netflix's ad tier added 15M+ new subscribers who would not pay \$15.50. The profit equation is: $(ARPU - \text{content cost per user} - CAC - \text{operating cost})$. For many services, ad-supported users have **higher lifetime contribution margin** despite lower ARPU, because content and infra costs are fixed. The sooner you accept this math, the faster you can redesign your product.

Ad ARPU vs Subscription ARPU

- **Subscription ARPU** is predictable but capped by consumer willingness to pay (ceiling ~\$18–20/month in US). You are boxed in.
- **Ad ARPU** has no theoretical ceiling, but is constrained by ad load tolerance, CPM volatility, and measurement friction. The opportunity is vast, but it demands a completely different operational muscle.

In 2025, leading hybrid services generated **30–40% of total revenue from advertising**, with the rest from subscriptions. By 2028, analysts expect that ratio to reach 50/50 for most mass-market services. If you are not planning for that parity today, you are planning to shrink.



COST STRUCTURE DEEP DIVE

Streaming economics are scaling—but content, technology, and customer acquisition continue to drive investment.

COST CATEGORY (% OF REVENUE)	DESCRIPTION	INDUSTRY RANGE (2025)	LEADING PLAYERS (2025)	TREND (VS. 2024)
CONTENT COSTS 45–60%	Spending on original content, licensing, and sports rights.	45% 60% Median: 52%	Disney+ 57% NETFLIX 55% max 48%	+2.5 pp Increasing due to content arms race and live sports
TECHNOLOGY & DEVELOPMENT 8–15%	Platform infrastructure, product development, data, and R&D.	8% 15% Median: 11%	NETFLIX 12% Disney+ 10% prime video 9%	+0.8 pp Rising with tech innovation and personalization
SALES & MARKETING 15–25%	Customer acquisition, brand marketing, and promotions.	15% 25% Median: 19%	Disney+ 23% max 20% hulu 18%	-1.2 pp Improving efficiency in customer acquisition
CUSTOMER SERVICE 5–10%	Support operations, billing, and customer care.	5% 10% Median: 7%	hulu 8% prime video 7% NETFLIX 6%	-0.5 pp Automation and self-service driving efficiencies
GENERAL & ADMIN 5–12%	Corporate functions including HR, finance, legal, and overhead.	5% 12% Median: 8%	max 9% Disney+ 8% NETFLIX 7%	-0.3 pp Operational leverage as scale improves



KEY TAKEAWAY

Content remains the largest investment area, but platforms are optimizing marketing and operations to drive sustainable profitability.

TOTAL COSTS AS % OF REVENUE (INDICATIVE RANGE)



Focus remains on scaling efficiently while investing in content and technology that drive engagement and retention.

Source: Company reports, investor presentations, Goldman Sachs, Digital TV Research, Ampere Analysis
Note: Ranges may not foot due to rounding.

Customer Acquisition Cost (CAC) trends: In 2021, streaming CAC averaged \$20–\$30 per subscriber. By 2025, as saturation hit, CAC rose to \$50–\$80 for premium services. Meanwhile, monthly churn remains 3–5% for most non-Netflix services. The payback period for a new subscriber has stretched from 6–9 months

to **18–24 months**—unsustainable without advertising or bundling. The market is punishing anyone who still uses 2021 metrics to guide 2026 strategy.

Profitability Levers

1. Ad load vs retention trade-off

Amazon's decision to make ads default (with option to pay \$2.99 to remove) will be watched closely. Early data suggests 10–15% of users pay to remove ads, while the rest tolerate 3–5 minutes per hour. Beyond 6 minutes/hour, churn spikes. This is the single most important A/B test in your organization right now.

2. Bundling vs direct pricing

Bundles lower direct ARPU but slash CAC and churn. Disney+ reported that 95% of gross additions came via bundles in early 2026. The trade-off: you give up margin to partners (telcos, retail giants) but gain stability. The right bundle strategy is a survival mechanism, not a growth hack.

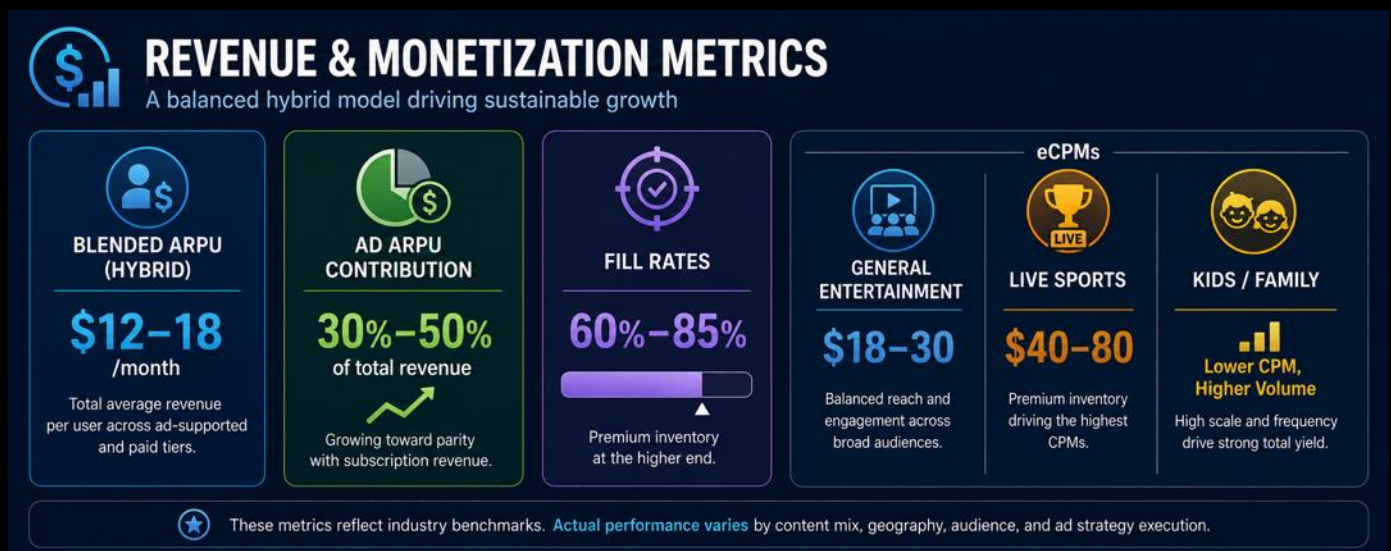
3. Windowing strategy

The old model (theatrical → PPV → SVOD → FAST) is collapsing. Winners now use **dynamic windowing** based on content value. Example: A top movie might go PVOD (\$19.99) for 45 days, then AVOD (ad-supported) for 6 months, then FAST for library monetization. Each window targets a different ARPU/volume sweet spot. The losers? They still release content the way they did in 2015.

👉 **What this means for CXOs:** Map your content portfolio into a **windowing matrix** (high/low demand × high/low production cost). High-demand, high-cost content belongs in SVOD/AVOD windows. Low-demand library content should be monetized via FAST and syndication. Do not treat all content equally. The majority of your library is not premium; it is inventory for the FAST economy.

2.7 Inside the Operating Dashboard of a CTV Business

Beyond market-level metrics, successful CTV organizations operate against a tightly managed set of performance benchmarks.



THE CTV METRICS THAT DRIVE GROWTH & PROFITABILITY

Retention, Engagement, Advertising Performance & Operational Efficiency — At a Glance



RETENTION & ENGAGEMENT

MONTHLY CHURN



Organic Users **2–3%**



Paid Acquisition **4–6%**



Bundled Users **Lowest churn, but lower engagement**



AVERAGE APPS PER HOUSEHOLD **5–7** active subscriptions



SESSION DURATION (CTV) **60–120** minutes



ADVERTISING PERFORMANCE



VIDEO COMPLETION RATES

85–95%

High completion rates drive stronger advertiser ROI.



OPTIMAL AD LOAD

3–5 minutes per hour

Balanced ad load maximizes revenue without hurting viewer experience.



FREQUENCY THRESHOLD

3–5 exposures per week per household

Ideal range to maintain impact without causing ad fatigue.



OPERATIONAL EFFICIENCY



CAC (2025)

\$50–80 per subscriber

Premium services



PAYBACK PERIOD

18–24 months

Healthy unit economics drive sustainable growth.



CONTENT AMORTIZATION

40–60% of revenue

Efficient content investment is key to long-term margins.



These metrics are **benchmarks, not targets.**

Performance varies by content genre, geography, business model, and audience strategy.



Measure. Optimize. Grow. That's the CTV advantage.

What this means:

Winning in CTV is no longer about scale alone—it is about operational discipline. Organizations that actively manage these benchmarks outperform peers even at smaller scale. Ignore these numbers, and you are flying blind.

2.8 The CTV Profitability Equation™

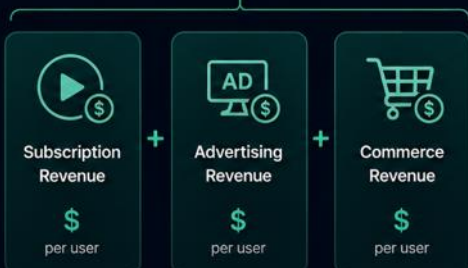
At its core, every streaming business converges on a single equation:

Contribution Margin per User

The profitability we generate per user after covering all direct costs.

TOTAL REVENUE PER USER

What we earn from each user



TOTAL COST PER USER

What it costs to serve each user



What it means

The amount of money we keep per user after paying for content, acquiring the user, delivering the service, and sharing revenue with partners.



Higher margin drives profitability and growth



Better unit economics enable sustainable scaling



Optimize both revenue and costs to maximize value per user



Key metric for strategic decisions and benchmarking

Key Levers

- **Revenue Side:** Subscription pricing, ad load and CPM optimization, commerce integration (emerging)
- **Cost Side:** Content amortization efficiency, CAC reduction via bundling, infrastructure optimization at scale

Strategic Insight: Subscription revenue has a hard ceiling. Advertising revenue scales with engagement. Commerce introduces a new growth layer with no upper bound. The future lies in optimizing the balance across all three. The leaders of 2030 will be those who treat these levers not as independent initiatives but as a single, dynamic system governed by AI.

Part II-B: The CMO Agenda in the CTV Era

The full-funnel convergence on the television screen demands a fundamental reset of marketing strategy, KPIs, and team structures. CMOs who still measure television success solely by reach and GRPs are structurally behind. CTV transforms television from a purely top-of-funnel awareness channel into a dynamic, outcome-based performance medium.

How CTV Changes Marketing

- **Brand + Performance Convergence:** The same screen that builds brand equity can now drive a shoppable transaction or serve a personalized performance ad. A CTV campaign is simultaneously an awareness play and a direct-response engine. CMOs who separate “brand” and “performance” teams are managing to a 2019 playbook.
- **Household-Level Attribution:** Move beyond panels and proxies. CTV offers the potential for deterministic attribution of ad exposure to household-level outcomes, whether that's a website visit, a store visit, or a purchase.
- **Shoppable TV:** The creative canvas evolves from passive video to an interactive commerce surface. "Add to cart" on the remote is the new click-through, merging the advertising and shopping experience.
- **AI-Driven Creative Optimization:** Dynamic, AI-powered creative assembly will tailor ads at the household level, optimizing scenes, calls-to-action, and even voiceovers in real time based on audience data.
- **Outcome-Based Media Buying:** Buying models will shift from cost-per-thousand (CPM) impressions to guarantees on attention, incrementality, and business outcomes like sales lift. CPM is a vanity metric; incremental margin is the real KPI.

The New Marketing KPIs



New Organizational Needs

- **Creative + Data Integration:** Break down the wall between creative teams and data analysts. Creative strategy must be informed by real-time engagement analytics.
- **Retail Media Partnership Capability:** Build a specialized team focused on leveraging data clean rooms and closed-loop attribution with retail giants like Amazon, Walmart, and others.
- **Programmatic Mastery:** The marketing team needs deep, in-house programmatic expertise to manage supply path optimization (SPO) and avoid the 30-60% hidden fees that can drain digital ad budgets.
- **Real-Time Experimentation:** Adopt a culture of continuous, campaign-level A/B testing across creatives, audiences, and ad loads, with a direct feedback loop to media planning.

Strategic Warning: CMOs still measuring TV success via reach and GRPs are structurally behind. This role must now own business outcomes, not just media metrics. If you cannot prove incrementality, you will lose budget to those who can.

Part II-C: The CFO Imperative: Governing Streaming Profitability

Market leadership requires financial discipline. The transition to streaming-first presents profound capital allocation and margin governance challenges that demand active CFO stewardship. This is not a media strategy problem; it's an enterprise finance imperative.

Governing the New Economics

- **Content Amortization Risk:** The "Peak TV" model of \$200M+ originals is over. The CFO must mandate ROI models for every greenlight that forecast not just viewership, but incremental subscriber acquisition, churn reduction, and ad revenue windowing potential over a 5-year amortization schedule. A library-first strategy for legacy content is a margin-accretive mandate. If a show cannot demonstrate its contribution to the unit economics, do not greenlight it.
- **CAC Inflation & Bundling Math:** Direct customer acquisition cost (CAC) has swelled to 50–80, creating an unsustainable 18–24 month payback period. Bundles slash CAC but dilute ARPU through aggregator "taxes." The CFO must model the optimal 60/40 direct-to-bundled subscriber mix to balance margin and stability.
- **Yield Optimization:** This is the streaming equivalent of revenue management. A centralized yield management function is essential to govern real-time decisions on ad fill rates, price floors, and inventory allocation between programmatic guaranteed, open auction, and direct sales to maximize blended eCPM.
- **Capital Allocation Framework:** Move from funding "subscriber growth" to funding demonstrable unit profitability. Implement a build vs. buy vs. partner framework for all major investments, especially in ad tech and identity solutions.

Questions Every CFO Should Ask Their Streaming Leadership

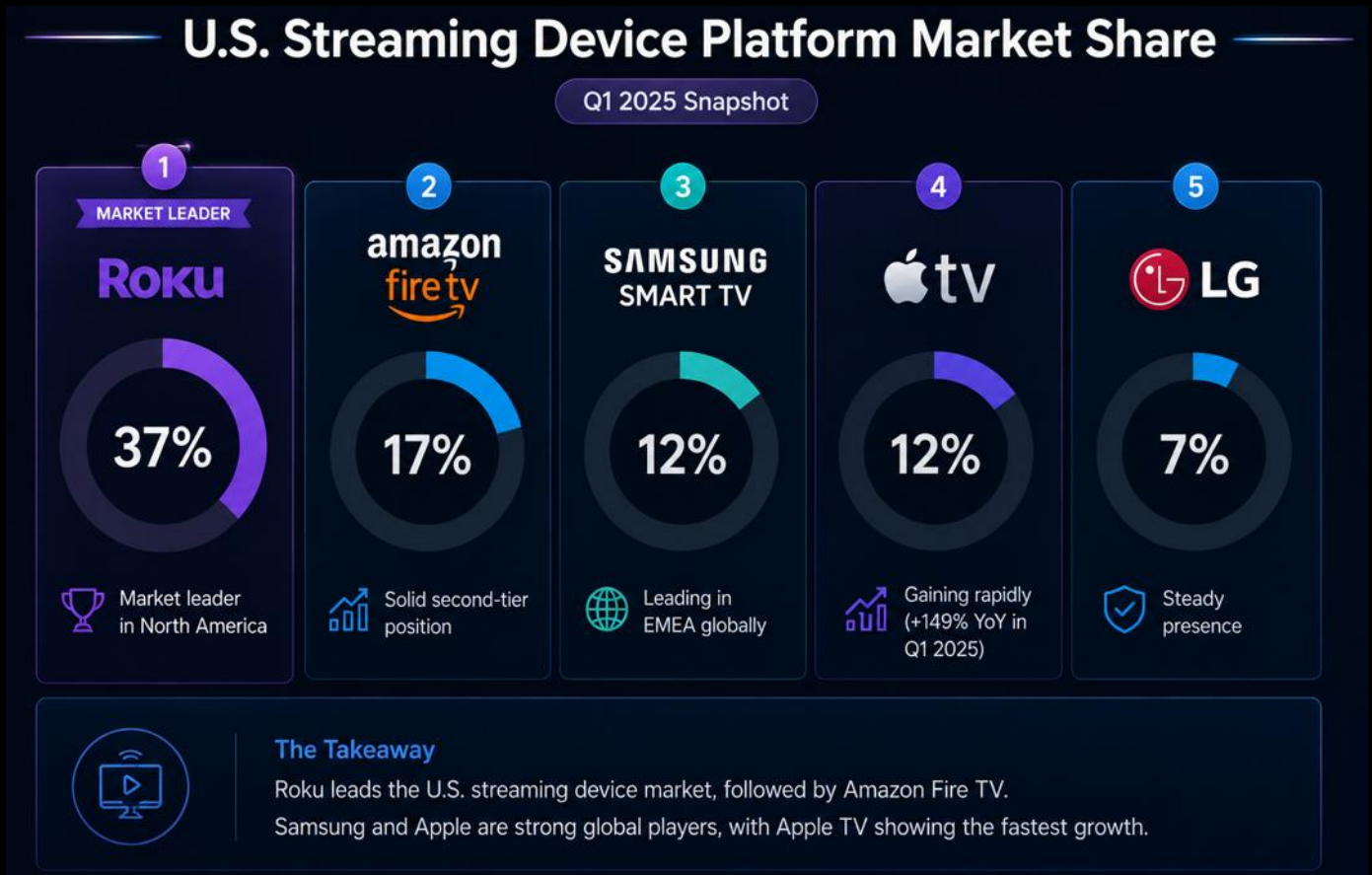
1. **Which specific content categories have a positive contribution margin?** Which are loss-leaders, and what is their strategic justification?
2. **What is our true blended acquisition cost,** and how does it trend between our organic, paid, and bundled subscriber cohorts?
3. **What is the aggregated tax rate we are paying to platforms** (Amazon, Apple, Roku) for distribution, and how can we reduce it?
4. **Are we over-investing in original content** relative to the ROIs we see from licensed library content, localized content, and sports rights?
5. **What is our target blended ARPU for 2028,** with the explicit revenue contribution split between subscriptions, advertising, and commerce?

This lens elevates the streaming discussion from a P&L line item to a core driver of enterprise valuation. The CFO who masters these questions will define the company's strategic options.

Part III: The CTV Technical Ecosystem

3.1 Device Landscape: Who Owns the Living Room?

The CTV device market in North America presents a concentrated but competitive landscape. Based on Pixalate's Q2 2025 share-of-voice (SOV) data—analyzing over 23 billion global open programmatic ad transactions—Roku leads in the U.S. with 37% market share, followed by Amazon Fire TV (17%), Samsung Smart TV (12%), Apple (12%), and LG (7%).



For advertisers and publishers, device fragmentation matters for creative optimization, ad serving compatibility, and measurement. Roku's leadership in programmatic CTV advertising gives it disproportionate influence in the ad tech ecosystem, but Apple TV's rapid growth and Amazon's scale cannot be ignored.

3.2 The Walmart-Vizio Transformation: A Case Study

The December 2024 acquisition of Vizio by Walmart for \$2.3 billion represents one of the most consequential strategic moves in recent CTV history. Walmart's rationale extends far beyond hardware sales:

- **Scale:** Vizio's SmartCast OS is already in millions of U.S. homes, and through Walmart's private-label strategy, this could reach 25–30% of US households.
- **Data Integration:** Walmart is now requiring new Vizio TV purchases to register a Walmart account to enable smart functions, allowing unprecedented integration of viewing data with purchase data.

- **Retail Media Convergence:** Walmart aims to build a "retail + advertising + technology" model, competing directly with Amazon in the converged commerce-media space.

For industry observers, the Walmart-Vizio integration signals a broader trend: **retailers are becoming CTV advertising powerhouses**, leveraging first-party purchase data to offer targeting capabilities that pure-play streaming platforms cannot match. This is a five-alarm fire for traditional media companies.

3.3 The Software Stack: OS, Apps, and Aggregators

Beyond hardware, the software layer determines user experience, data access, and advertising inventory. Key platforms include:

- **Roku OS:** Vertically integrated hardware-software with the most mature advertising platform
- **Amazon Fire TV:** Deeply integrated with Amazon's ecosystem and commerce data
- **Google TV/Android TV:** Open ecosystem with broad manufacturer support
- **Samsung Tizen:** Leading globally but smaller in North America
- **Vizio SmartCast:** Now Walmart-integrated, positioning for rapid evolution

For content providers, the decision of which platforms to prioritize involves trade-offs between reach (Roku, Amazon), data access (platform-specific), and advertising revenue share.

3.4 Streaming Service Provider Landscape

Notably, the streaming landscape continues to consolidate, with nearly all SVOD services—except Apple TV+—now offering an ad-supported tier. Apple's reluctance is increasingly looking like a strategic mistake.



Strategic Implications

- **Telco bundles** have become the single largest source of new streaming subs. Verizon alone drove over 5 million streaming sign-ups in 2025. The downside: these users have lower engagement and are harder to upsell.
- **Platform bundles** (Amazon Channels) give Amazon and Apple a 15–30% tax on every subscription dollar. They also capture valuable viewing data.
- **Super-aggregators** (Roku, Google TV) are the new gatekeepers. They decide which apps appear on the home screen, which content gets promoted, and which ads win in programmatic auctions.

What this means: Independent streaming services cannot ignore the re-aggregation trend. The strategic question is no longer "build direct relationships" vs "go through aggregators"—it is **how to balance both**. A healthy mix might be 60% direct (higher margin, more data) and 40% via bundles (lower CAC, lower margin). If you are 100% dependent on aggregators, you are already a commodity.

3.5 The Re-Aggregation of Streaming

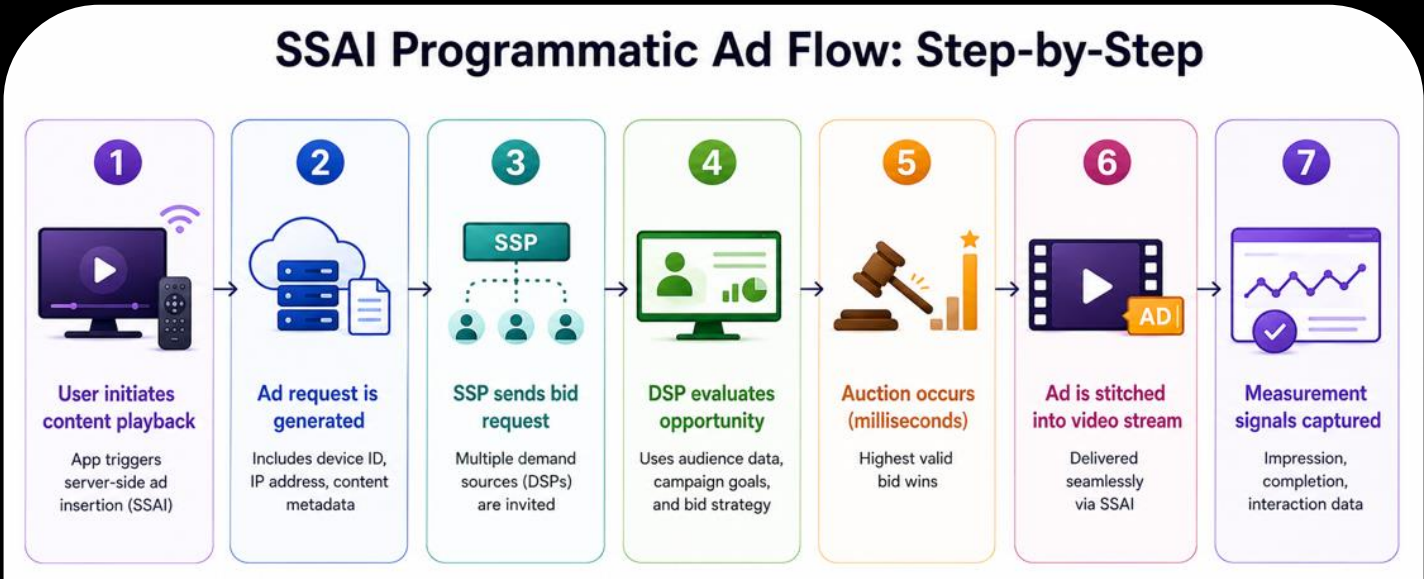
For years, the narrative was “cord-cutting leads to fragmentation.” Now the pendulum is swinging back: **platforms are re-aggregating streaming**.

The SVOD Hierarchy in the U.S. Remains Stratified

Rank	Service	Key Characteristics
1 	NETFLIX	 Market leader, 94M ad-tier users,  \$1.14B ad revenue
2	prime video	 130M U.S. ad-supported viewers
3	hulu	 Highest AVOD share (24% of ad-supported subs)
4	Disney+	 95% of gross additions via bundling
5	peacock	 41 million paid subscribers
6	Paramount+	 Competitive in sports and library content
7	max HBO	 Premium positioning

3.6 How a CTV Ad Impression Actually Works

Understanding the real-time mechanics of a CTV ad impression reveals where value is created—and lost.



Where Inefficiencies Occur

- **Latency:** Poor SSP/DSP coordination impacts user experience
- **Margin loss:** Each intermediary extracts value
- **Fraud risk:** Device spoofing, invalid traffic
- **Identity gaps:** Incomplete or inaccurate targeting

Implication: The complexity of this flow explains why transparency, SPO, and direct integrations are becoming strategic priorities. The advertiser dollar that enters this pipeline is a fraction of what reaches the content creator. Fixing this is not a technical detail; it is a margin imperative.

3.7 Competitive Power Map of the CTV Ecosystem

The CTV ecosystem is not evenly distributed—power is concentrated across specific layers.

LAYER	DOMINANT PLAYERS	STRUCTURAL ADVANTAGE
Device OS	Roku amazon	Control of UI and ad inventory
Commerce + Media	amazon	Closed-loop attribution
Premium SVOD	NETFLIX	Scale + data
AVOD / Hybrid	hulu YouTube	Monetization flexibility
FAST	pluto tv tubi	Library monetization

Structurally Disadvantaged Players

- Pure-play SVOD without ad tiers → limited revenue expansion, no growth trajectory
- Small FAST providers → lack of scale and differentiation, destined to be absorbed
- Independent apps → dependent on aggregator visibility, with no direct consumer relationship

Implication: Success in CTV is less about content alone and more about control of distribution, data, and monetization layers. If you only control the content layer, you are a serf in someone else's kingdom.

Part III-B: AI-Native Streaming Operations

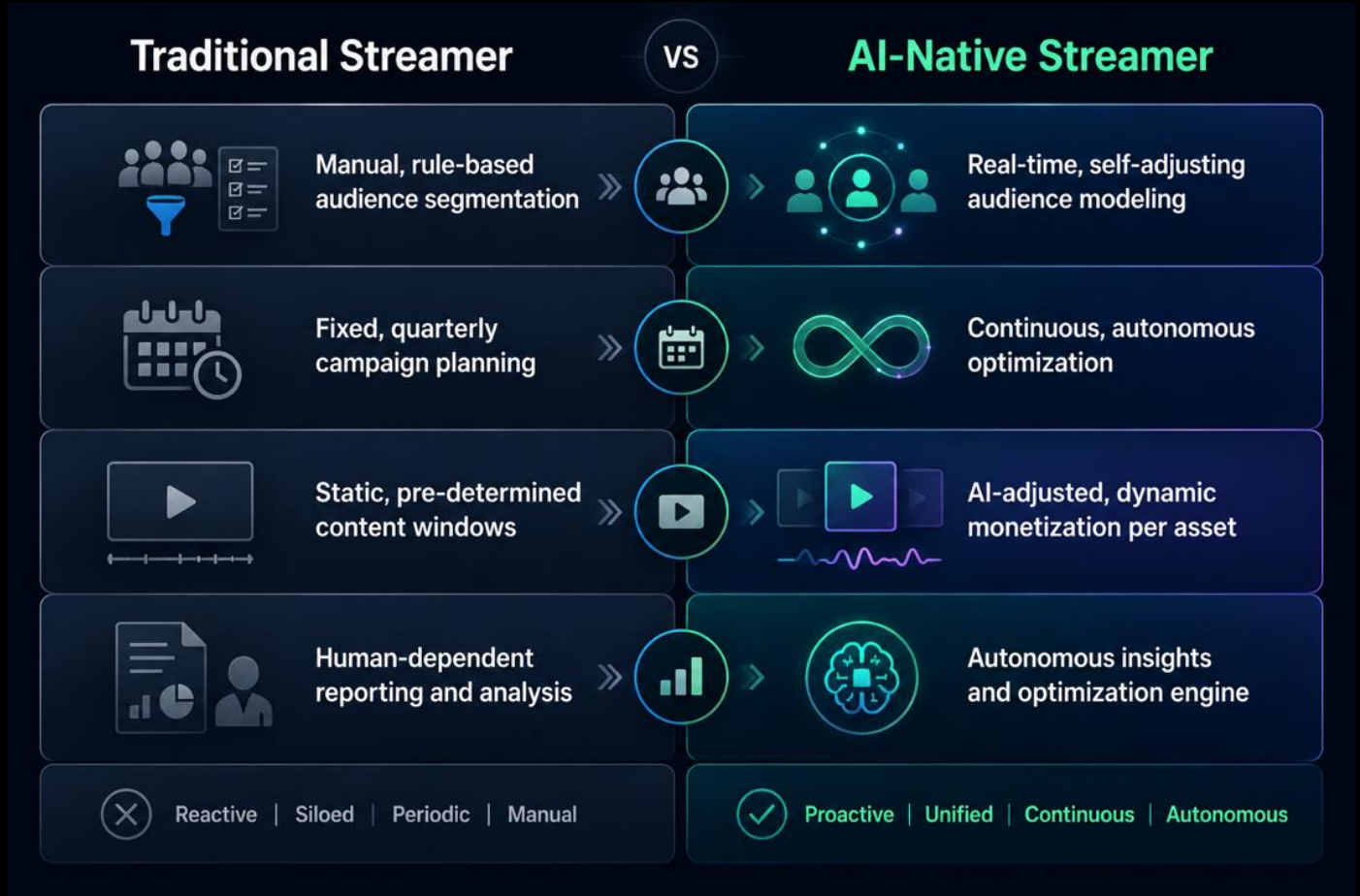
This is the single greatest strategic opportunity and operational shift facing the industry. AI is not a feature of a modern streaming platform; it is the foundational operating system. The gap between a "traditional" streamer and an "AI-native" streamer will soon be the primary competitive moat. Companies that do not make this transition will face an existential cost-structure disadvantage.

AI-Native Operational Pillars

- **Autonomous Advertising:** AI-driven predictive models dynamically price inventory, assemble creative in real time, and optimize ad load at the individual household level to maximize revenue without triggering churn. 82% of marketers already deem AI-powered optimization as essential. This is not a future capability; it is a present arms race.
- **Predictive Churn Reduction:** Moving from reactive retention offers to proactive, personalized engagement. AI predicts disengagement risk based on viewing friction, content voids, or ad fatigue, and autonomously delivers a retention hook (new content recommendation, loyalty perk) before the user unsubscribes.
- **Content ROI Forecasting:** AI models ingest script metadata, talent, genre trends, and even early social buzz to predict a title's viewership, subscriber pull, and churn-reduction power before a greenlight decision is made. Gut-feel commissioning is a luxury that only a few can afford; for everyone else, it's a path to financial ruin.
- **Automated Metadata & Compliance:** AI agents, like iSpot's SAGE, automatically extract objects, emotions, and brand safety markers from every frame of content and advertising, powering targeted advertising and mitigating risk at scale.
- **Real-Time Yield & Windowing:** An AI brain autonomously adjusts content windowing (PVOD → SVOD → AVOD → FAST) based on real-time demand signals, maximizing lifetime revenue for every single asset.

The AI-Native Streamer: A Structural Contrast

This operational evolution is the bridge between a legacy media company and a technology-first monetization platform. If your org chart still has a separate “digital innovation” team, you are already behind.



Part IV: The Advertising Revolution

4.1 Market Size and Growth Trajectory

US CTV ADVERTISING IS ACCELERATING BEYOND TV

US CTV ad spending is experiencing explosive growth.

According to eMarketer's December 2025 CTV forecast, US CTV ad spending will increase nearly 14.5% in 2026 to reach \$37.95 billion.



eMarketer forecasts US CTV ad spending will surpass TV ad spending by 2028 reaching **\$45.96 billion**, up from \$32.45 billion in 2025.



CTV ad spending **surpasses** TV ad spending in 2028

US CTV AD SPEND FORECAST (eMarketer, Dec 2025)

(In billions USD)



CTV ad spend surpasses TV ad spend in 2028



THE TAKEAWAY
CTV is not just growing—it's becoming the future of TV advertising.

Year	Projected CTV Ad Spend (US)	Year-over-Year Growth
2025	\$32.45 billion (actual)	---
2026	\$37.95 billion	+14.5%
2027	~\$40.5 billion	~+7%
2028	\$45.96 billion	~+13%

What this means: CTV advertising is no longer a "test budget." It is a core allocation. By 2028, more than half of all TV dollars will flow to CTV. If your organization still separates "linear TV buying" from "digital buying," you are structurally misaligned and actively losing margin.

4.2 The Shift from Linear to Programmatic

Programmatic buying has become the dominant transaction method for CTV advertising. Key findings from the Comscore 2026 State of Programmatic Report:

- **51% of programmatic buyers expect more than 60% of their CTV budgets to be transacted programmatically in 2026.**
- Nearly one-quarter anticipate that more than 80% of their CTV buys will occur through programmatic channels.
- CTV and audio are the only two media channels expected to see year-over-year programmatic budget growth, with CTV expected to capture 26% of media budgets on average.
- **45% of marketers are moving budgets from linear TV to CTV**, and 21% are reallocating spend from linear to programmatic audio.
- 58% of respondents expect their programmatic investment to increase in 2026.

4.3 AI-Powered Optimization

The programmatic landscape has evolved beyond simple automation to AI-driven optimization. According to the same ComScore report:

- **82% of marketers said AI-powered optimization was essential** when evaluating programmatic partners.
- Top AI applications marketers expect to rely on in 2026: audience targeting and modelling (88%), campaign pacing and bid automation (77%), measurement and attribution (71%), and fraud detection and brand safety (70%).
- The era of "set-it-and-forget-it" campaign management is ending, replaced by real-time creative optimization, dynamic frequency capping, and predictive audience modelling.

4.4 Measurement and Attribution

The adage "half my advertising is wasted, I just don't know which half" has particular resonance in CTV, where measurement fragmentation has been a persistent challenge. However, 2025–2026 has seen significant advances:

- **Roku and iSpot** announced an integration enabling advertisers to track ROI and adjust creative strategies in-flight.
- **iSpot launched SAGE**, an agentic AI-powered solution extracting metadata and storylines from millions of ads for end-to-end measurement.
- **Innovid's TVSquared** continues to provide same-day analytics.
- Marketers rank conversion rate (62%) and ROAS (47%) as the most important metrics for programmatic effectiveness.

4.5 Interactive and Shoppable Advertising

The convergence of advertising and commerce has accelerated. Amazon is adding shoppable ads to Prime Video, including interactive formats that allow viewers to purchase products directly from ad units. Walmart's acquisition of Vizio is explicitly aimed at creating a "content-to-commerce" pipeline. For brands, CTV is increasingly viewed as a **performance channel** capable of driving measurable outcomes. Retail media CTV ad spending is expected to grow 45.1% in 2025, tripling the growth rate of retail search.

4.6 Ad Fraud and Invalid Traffic

As CTV ad spend has grown, so has fraud. CTV ad fraud is defined as any deliberate manipulation causing advertisers to pay for impressions that aren't legitimate—not seen by real people, not served in intended environments, or generated by bots.

Emerging solutions include CTV Scale integrated with mFilterIt for real-time AI/ML-powered traffic scanning, identifying invalid traffic (IVT) and sophisticated bot activity before impressions are served.

CTV AD FRAUD & INVALID TRAFFIC

Fake Views. Wasted Spend. Skewed Insights.

HOW CTV AD FRAUD HAPPENS



BOT TRAFFIC

Automated bots mimic human behavior to generate fake ad requests and impressions.



DEVICE SPOOFING

Fraudsters spoof device IDs or use emulators to appear as legitimate CTV devices.



ADS ON WRONG CONTENT

Ads served adjacent to pirated, inappropriate or low-quality content.



INVALID ENGAGEMENT

Non-human or forced interactions (including auto-clicks and misrepresented completions).



IP & GEO FRAUD

Traffic from data centers, VPNs or outside targeted geographies masquerading as real users.



INVALID TRAFFIC
DETECTED

COMMON FRAUD INDICATORS



Unusual spike in impressions



Traffic from unknown geos



High % of unrecognized devices



Low engagement or 0% completion rates



High bot probability scores

THE IMPACT



WASTED AD SPEND

Up to 15-30% of CTV ad spend is lost to invalid traffic.

Higher costs, lower ROI



SKewed REPORTING

Inflated reach and impressions lead to false performance data.

Bad decisions, misallocated budgets



DAMAGED BRAND SAFETY

Ads may appear on fraudulent, unsafe or low-quality content.

Reputation risk, loss of trust



POOR USER EXPERIENCE

Ads shown to the wrong audience at the wrong time.

Lower engagement and conversions

PROTECT YOUR CTV CAMPAIGNS



Verify Traffic Sources

Work with fraud-vetted SSPs and exchanges.



Real-time Fraud Detection

Use AI/ML models to detect anomalies as they happen.



Use Trustworthy Measurement

Leverage third-party verification and measurement partners.



Block & Filter Invalid Traffic

Apply pre-bid and post-bid fraud filters and blocklists.



Monitor & Optimize

Continuously analyze and optimize for quality traffic.



FRAUD IS COSTING THE INDUSTRY BILLIONS.



CLEAN TRAFFIC DRIVES REAL RESULTS.

Verify. Monitor. Protect.

4.7 YouTube: The Unbundled Giant

Most industry analysis treats "streaming" as synonymous with Netflix, Disney+, and HBO. This is a dangerous blind spot. **YouTube is the largest CTV platform by watch time, and it competes with both traditional TV and TikTok.**

YouTube by the Numbers (US, 2025)

The CTV leader. The creator engine. The future of streaming.

MONTHLY CTV VIEWERS



~150 MILLION
(over 90% of US CTV households)

90%+

YouTube reaches over 90% of US CTV households every month.

DAILY WATCH TIME ON CTV



~1.2 BILLION HOURS
globally
(US share ~35%)

35%

Over 1 in 3 CTV watch hours comes from US viewers.

AD REVENUE (GLOBAL)



~\$36 BILLION
(2025)
with CTV share accelerating



CREATOR-DRIVEN CONTENT SHARE



>70%
of watch time

Creators power the majority of watch time on YouTube.



YouTube on CTV:

**Reaching more viewers. Driving more watch time.
Delivering more value.**

Sources: Google/YouTube Internal Data, eMarketer, Nielsen CTV Panel, 2025

YouTube's Hybrid Model

YouTube is neither pure AVOD nor pure creator economy. It is **performance marketing meets mass reach**:

- **AVOD**: Standard pre-roll, mid-roll, display ads.
- **Creator monetization**: Revenue share (55% to creator, 45% to YouTube).
- **YouTube Select**: Programmatic guaranteed for top 5% of channels.
- **YouTube Shopping**: Shoppable videos and live commerce.

Why YouTube Matters for Your Strategy

- **It bridges brand and performance.** A CTV campaign on YouTube can drive both awareness (via pre-roll on MrBeast) and direct response (via in-feed shopping ads).
- **It competes for the same ad dollars as Netflix and Hulu.** Ad buyers increasingly treat YouTube CTV as a substitute for linear TV, not as "digital."
- **It owns the entire funnel:** Short-form (Shorts) → long-form (videos) → live (streaming) → commerce.

👉 **What this means for CXOs:** If your streaming strategy does not explicitly account for YouTube, you are ignoring the single largest CTV audience. Consider YouTube a **core competitive benchmark** for both watch time and advertiser ROI. For newcomers, launching a FAST channel is often less efficient than building a YouTube CTV presence first. Ignoring YouTube is not a strategy; it's an expensive omission.

4.8 Identity in a Post-Cookie CTV Ecosystem

Third-party cookies are deprecated. Mobile ad IDs are restricted. CTV, however, has always operated on different identity primitives: **IP address, device ID, ACR data, and login-based authentication**. The post-cookie era actually favours CTV—but only if you invest correctly.

First-Party Data Wars

The winners in CTV will be those who **own the login relationship**: Netflix (~270M global subscribers), Amazon (130M+ ad-supported viewers linked to purchase history), Roku (~80M active accounts with ACR + device graph). Smaller players can compete on **contextual relevance** and **clean-room partnerships** with retailers or telcos. If you do not own the login, you are renting your customer relationship.

Household vs Individual Targeting

CTV is inherently a household medium, but advertisers want individual-level frequency capping. The solution is **probabilistic household graphs** linking devices to addresses. Accuracy varies (70–85%), and mis-targeting leads to waste.

IDENTITY FRAMEWORKS IN CTV

Powering addressability. Protecting privacy. Enabling performance.

FRAMEWORK	DESCRIPTION	ADOPTION LEVEL
 UID2 (Unified ID 2.0)	 Open-source, email-based identifier	 HIGH High among publishers (Fubo, Tribune)
 RampID™ (LiveRamp)	 Deterministic, PII-based, privacy-compliant	 STRONG Strong in programmatic
PARAGONE  TVSquared	 Household-level graph	 MEASUREMENT FOCUSED Measurement focused
CLEAN ROOMS  snowflake  aws  Google ADH	 Matched audiences without data movement	 RAPIDLY GROWING Rapidly growing

 These frameworks enable privacy-safe, scalable addressability across the CTV ecosystem.

👉 **What this means:** Build a **first-party identity roadmap** prioritizing user logins (even for FAST services). Invest in a clean-room strategy with 2–3 key data partners. Accept that household targeting is imperfect and build creative and frequency guardrails accordingly.

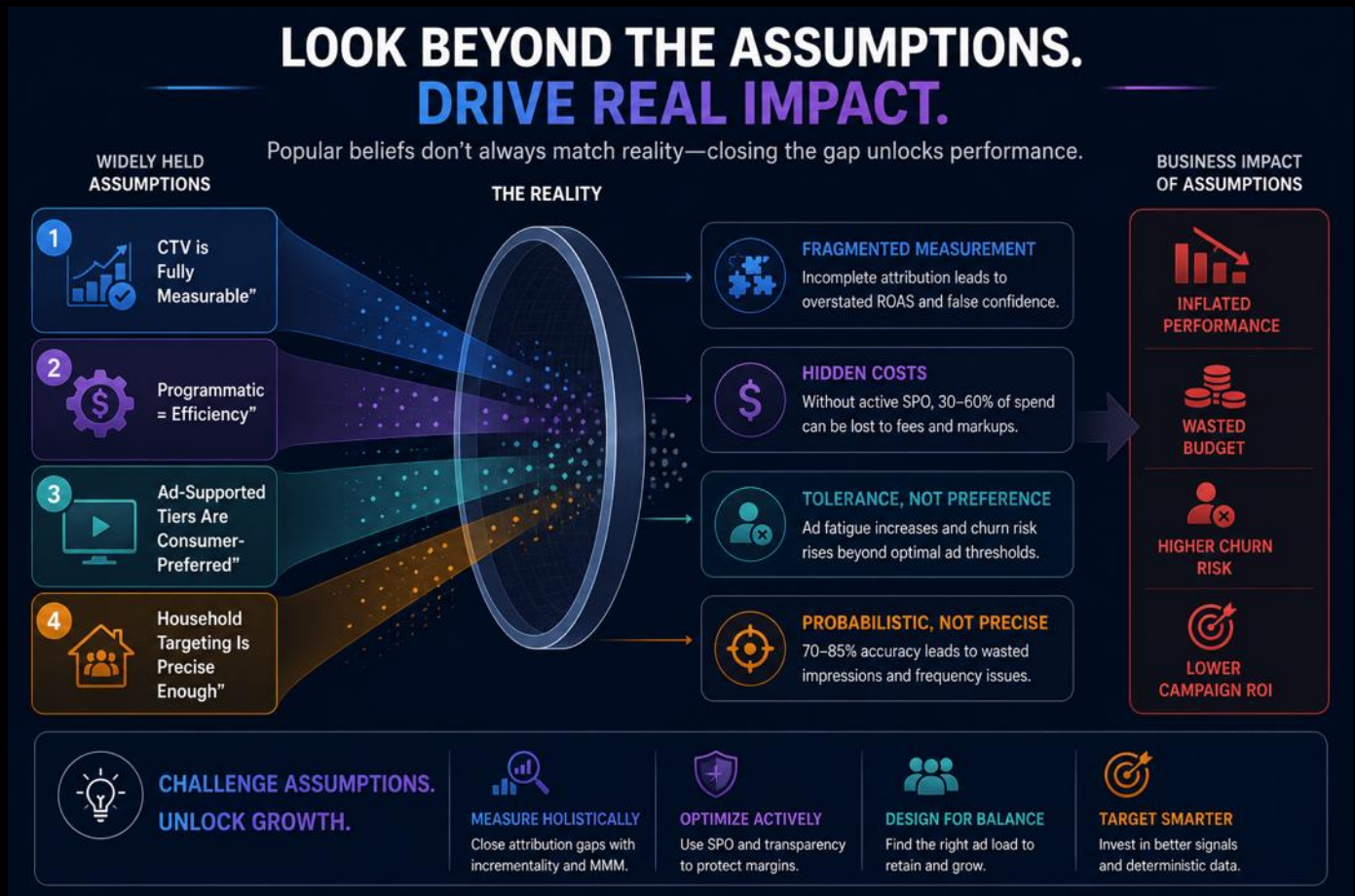
4.9 Where \$1 of CTV Ad Spend Goes



Implication: Without supply path optimization, a significant portion of advertiser spend never reaches the content owner. You are paying a tax to complexity. SPO is not a nice-to-have; it is margin defence.

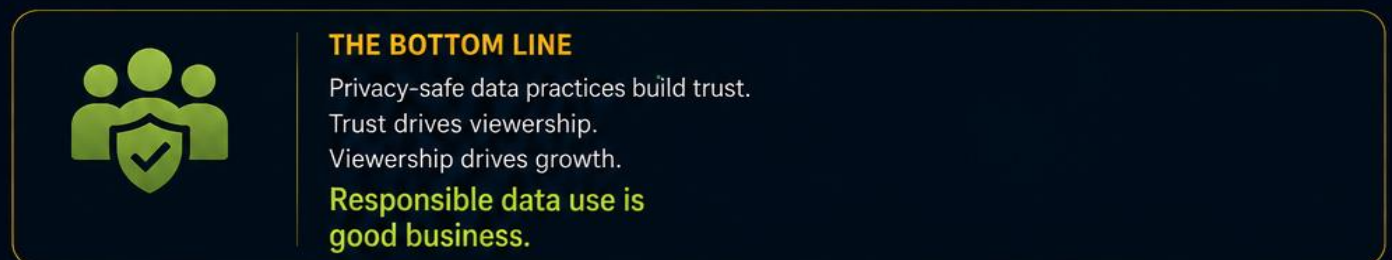
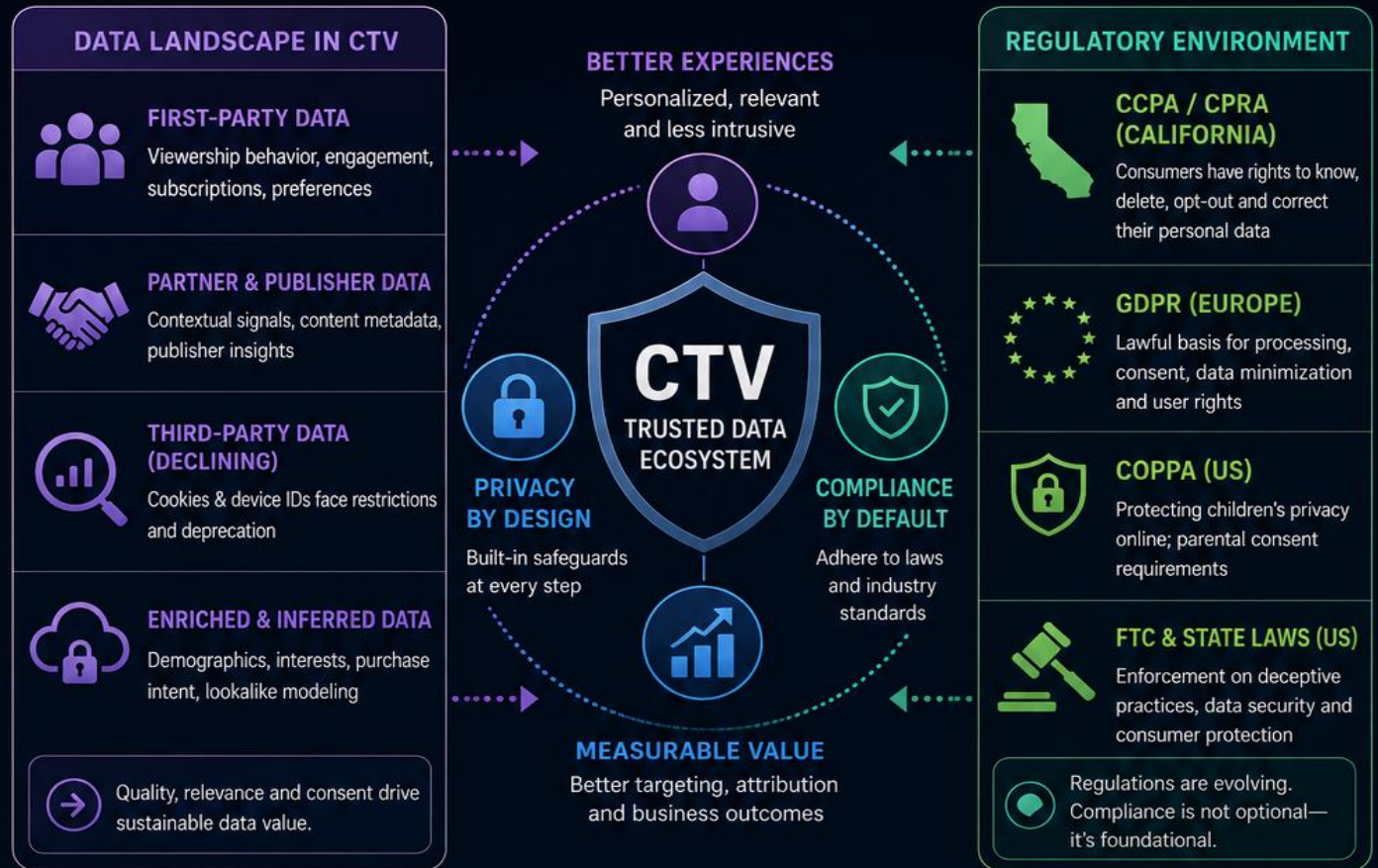
Part IV-B: The Illusions of the CTV Ecosystem

Despite rapid growth, several widely accepted assumptions do not fully hold under scrutiny.



Part V: Data, Privacy, and Regulation

Trust is the New Currency. Privacy-First Data Powers Better TV Experiences.



5.1 The Regulatory Landscape

The CTV ecosystem operates within an increasingly complex privacy regulatory environment.

The Video Privacy Protection Act (VPPA): The US Supreme Court has agreed to hear its first-ever case under this 1988 law, *Salazar v. Paramount Global*, which asks whether the VPPA protects individuals who subscribe only to non-audiovisual content from companies that also offer video programming. The VPPA prohibits video service providers from disclosing consumers' PII to third parties without consent.

Texas Litigation: Texas has sued major CTV manufacturers, alleging that ACR technology captures screenshots every 500 milliseconds and transmits data without clear user consent.

California Enforcement: In February 2026, the California Attorney General announced a \$2.75 million settlement with Disney, signalling active enforcement.

5.2 ACR Technology and Consumer Consent

ACR enables content recommendations, audience measurement, and ad targeting. However, it is the most significant privacy flashpoint. 43% of respondents plan to increase contextual targeting in 2026 as a privacy-forward alternative. For CXOs, **transparent disclosure, opt-in consent, and demonstrable compliance are prerequisites for sustainable operation.** The VPPA ruling will define the boundaries of data collection. Assume the most restrictive interpretation and build accordingly.

5.3 What the US Market Teaches the World



Part VI: Challenges, Risks, and Barriers

Key Challenges in the CTV & OTT Ecosystem

Complex challenges. Real impact. Strategic focus required.

6.1 FRAGMENTATION



High complexity across devices, OS, ad tech, and measurement providers.

6.2 MEASUREMENT INCONSISTENCY



Disconnected datasets tell only part of the attribution story.

6.3 CONTENT COSTS AND PROFITABILITY



The arms race for content continues, pressuring margins.

6.4 CHURN AND RETENTION



Saturation means growth comes from competitor share.

6.5 AD LOAD AND CONSUMER TOLERANCE



As more services introduce ads, the risk of ad fatigue is real.

6.6 TALENT AND EXPERTISE GAPS



Hybrid skill sets merging TV, digital, data science, and programmatic are in short supply.

The CTV and OTT landscape is brimming with opportunity, but these six interconnected challenges must be addressed head-on. Fragmentation and measurement gaps obscure true performance, while soaring content costs and persistent churn strain profitability. At the same time, rising ad loads risk alienating viewers, and a shortage of hybrid talent limits innovation.

Success requires a unified strategy—aligning data, technology, and creative execution to build sustainable growth and a better viewer experience. Without cross-platform standards and smarter audience engagement, even well-funded services will struggle to scale. The winners will be those who treat these challenges not as roadblocks, but as the blueprint for a more resilient, viewer-first ecosystem.

Part VII: Content Strategy Evolution

From Volume to ROI: The New Content Mandate

The "Peak TV" era is over. Scripted commissions fell 15% YoY in 2025. The shift is toward **franchise/IP, localization, and library monetization**.



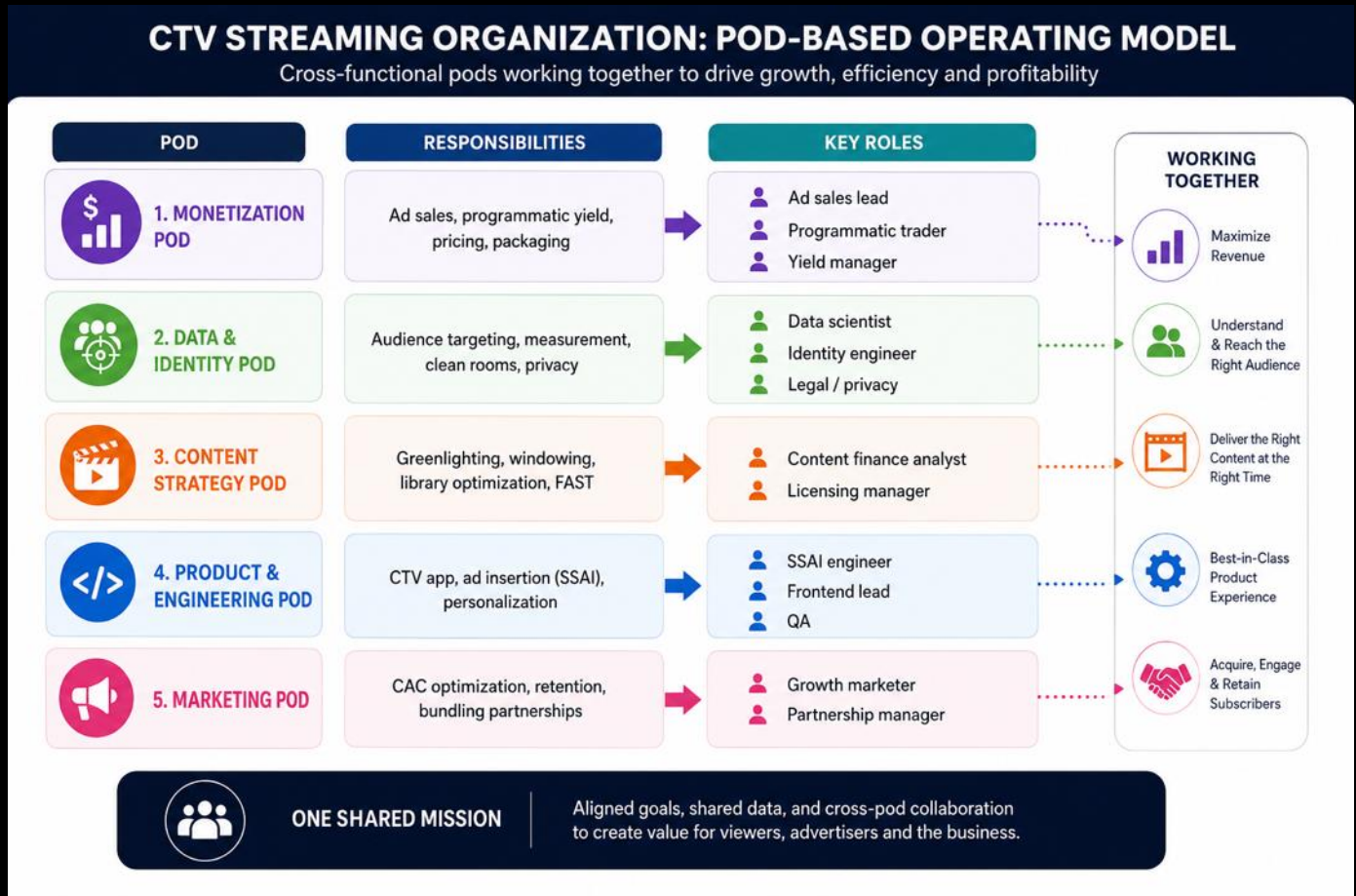
The Death of "Growth at Any Cost"

Greenlights now require ROI models accounting for engagement hours, subscriber acquisition, churn reduction, ad revenue potential, and international licensing. Do not try to outspend Netflix; build a **library-first strategy** and test appetite on YouTube. The era of prestige content without a profit model is over.

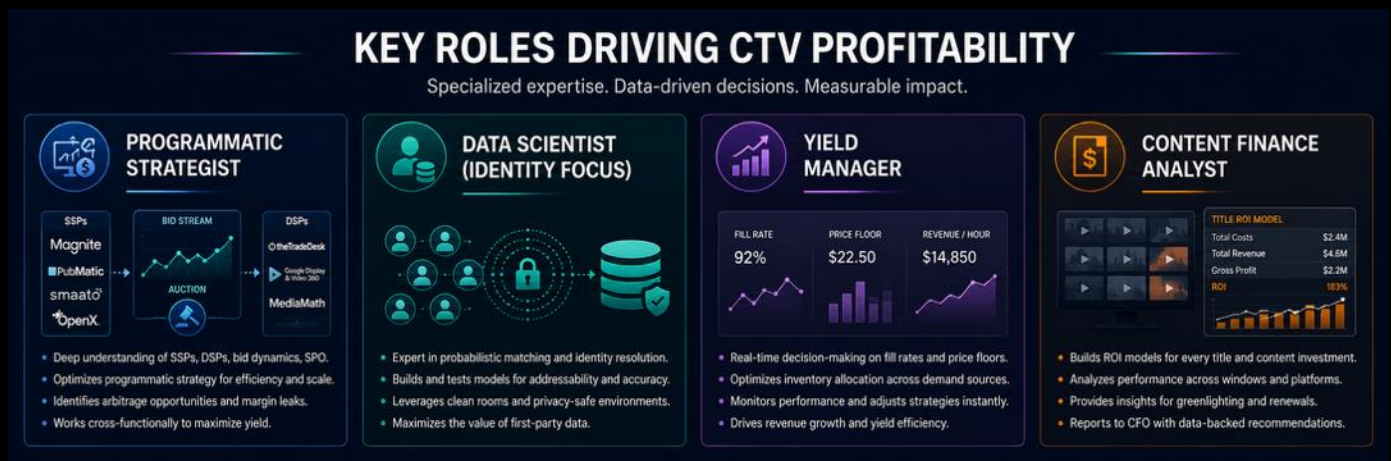
Part VIII: Operating Model for CTV Organizations

8.1 The New Org Chart for a Streaming-First Company

Traditional silos fail in CTV. The winning structure is **cross-functional pods**.



New Roles You Must Hire



8.2 The Organizational Transformation Required



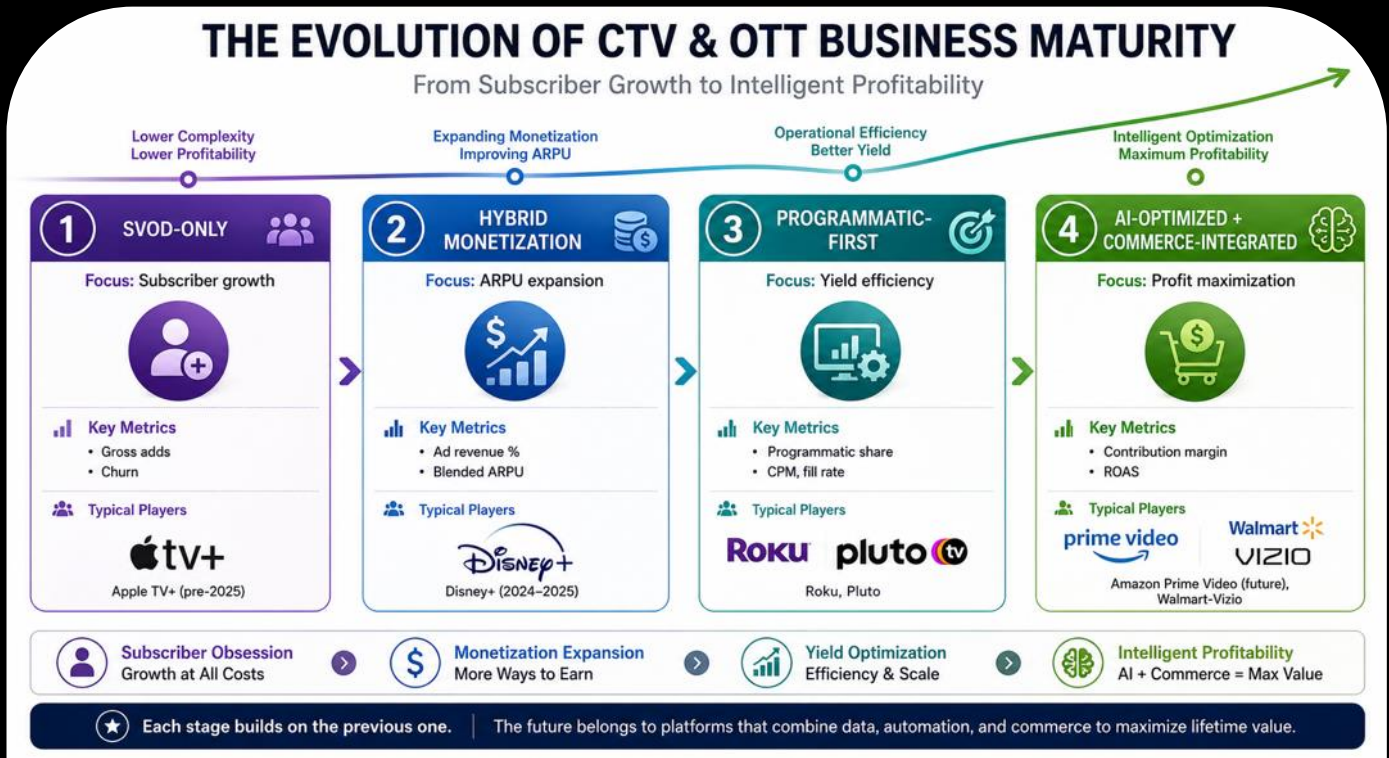
What Disappears	Consolidates as
Linear TV Silos	One unified "video" P&L
Separate Digital Teams	Digital and TV ad sales are a single function
Static Annual Planning	Replaced by continuous optimization cycles
Siloed Departments	Marketing, product, and programming unite into shared-KPI pods

What Emerges:

- **Revenue Operations (RevOps):** Centralized function managing all monetization streams on a common data stack.
- **Real-Time Monetization Teams:** Traders operating in a programmatic-first market.
- **Data Governance & Identity Organization:** CDO-led unit owning first-party data strategy and clean room partnerships.
- **AI-Enabled Media Operations:** Cross-functional team embedding AI into every value chain link.
- **Growth Engineering:** Unit merging product, marketing, and data science to systematically optimize CAC and LTV.

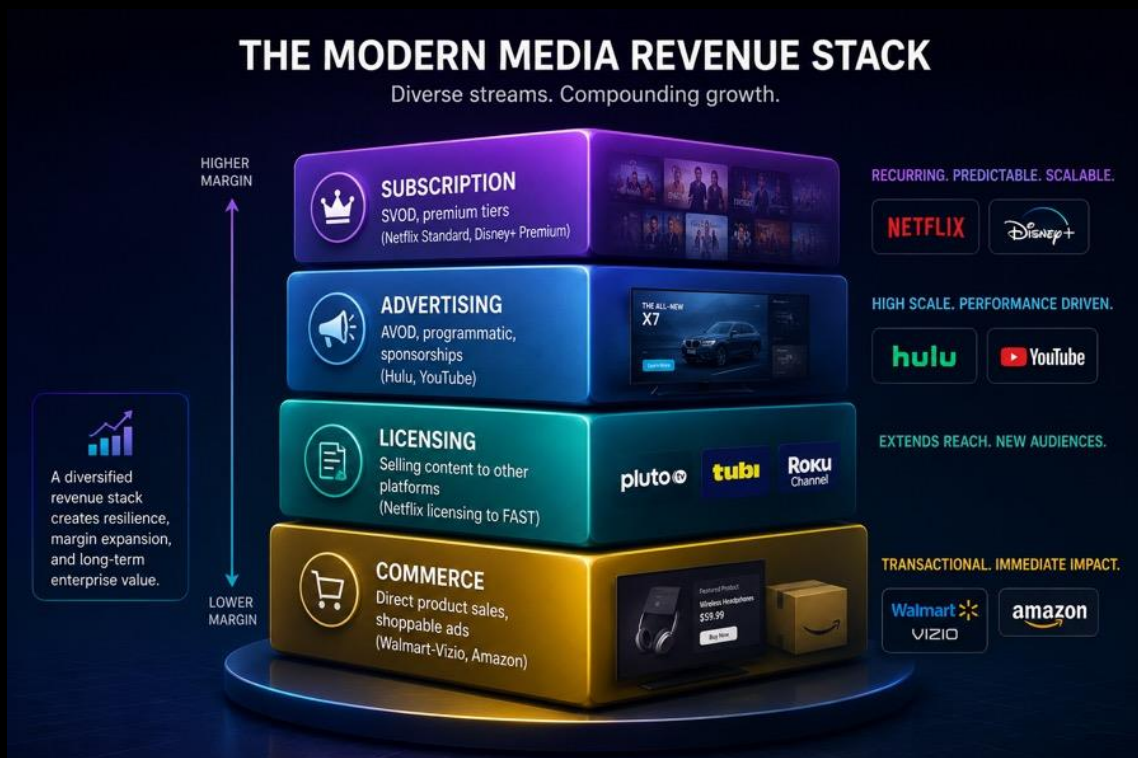
Part IX: Frameworks for Strategic Decision-Making

9.1 CTV Maturity Model



9.2 Revenue Stack Framework

Visualize revenue as a stack (bottom to top):



The most durable businesses build from the bottom up. The ones that start at the top and stay there will become acquisition targets.

9.3 Executive Decision Frameworks

Build vs. Buy vs. Partner Framework

BUILD WITH PURPOSE. BUY FOR SPEED. PARTNER FOR SCALE. A Pragmatic Make-Buy-Partner Framework for Sustainable Competitive Advantage				
Capability	Build	Buy	Partner	Strategic Reasoning
 Ad Tech Stack	✓			 Strategic control over data and long-term margin
 Identity Graph			✓	 Access to scale and cross-industry graphs
 Content IP	✓	✓		 Core differentiator
 Programmatic Stack		✓	✓	 Speed to market; outsource commoditized pipes
 CDN/Infrastructure			✓	 Not worth in-housing unless at Netflix scale
 Build what differentiates.  Buy what accelerates.  Partner what scales.				

The CTV Profitability Equation™



Scenario-Based Strategic Playbooks

- **New Entrant (<\$50M budget):** Avoid SVOD-first. Launch FAST + YouTube, test demand with licensed library.
- **Mid-Tier Streamer:** Reduce original spend 20-30%, increase ad load to 4-5 min/hour, accelerate bundling.
- **Telco/Aggregator:** Own subscription relationship, bundle aggressively, monetize data.
- **Advertiser:** Treat CTV as brand and performance, prioritize frequency control and incrementality testing.

Part X: Emerging Battlegrounds

EMERGING OPPORTUNITIES. NEW PLATFORMS. NEW BEHAVIORS. NEW REVENUE.

01 SPORTS STREAMING

The last live linear pillar is shifting.

PURSUDE NICHE SPORTS FOR LOYAL AUDIENCES.

AVOID MAJOR RIGHTS UNLESS A TOP-TIER PLAYER.

02 LIVE VS ON-DEMAND CONVERGENCE

Social interactivity is the real battleground.

YouTube | Twitch

LIVE ENGAGEMENT. REAL COMMUNITY. HIGHER RETENTION.

03 GAMING + CTV

Cloud gaming on TVs creates a new advertising and subscription surface.

NEW AUDIENCES
MORE TIME SPENT

NEW INVENTORY
NEW REVENUE

04 VOICE & REMOTE-BASED COMMERCE

Voice + AI agents will unlock \$5B+ in CTV commerce by 2028.

SEAMLESS DISCOVERY TO PURCHASE

VOICE + AI DRIVES ACTION

05 AD FREQUENCY FATIGUE METRICS

Optimal frequency is 3-5 impressions/week/household.

APPLY HOUSEHOLD-LEVEL CAPPING ACROSS DEVICES.

BETTER EXPERIENCE. HIGHER EFFECTIVENESS. STRONGER ROI.

THE FUTURE OF STREAMING IS INTERACTIVE, IMMERSIVE, INTELLIGENT, AND MEASURABLE.
Win by innovating beyond content—create experiences, drive engagement, and unlock new monetization frontiers.

The battle for streaming dominance is shifting from content volume to experience innovation. As live sports go digital, gaming converges with CTV, and voice-driven commerce unlocks new revenue streams, the real opportunity lies at the intersection of interactivity and intelligence. Social features in live programming, household-level frequency capping, and seamless purchase paths are redefining engagement and ROI. The future belongs to platforms that move beyond passive viewing—creating immersive, shoppable, and personalized experiences that keep audiences captivated and brands connected.

To win in this evolving landscape, companies must act on several fronts. First, embrace the convergence of live and on-demand by integrating real-time social interactivity—chat, polls, and predictions—that turns passive viewers into active participants. Second, capitalize on cloud gaming within CTV environments as a fresh inventory for ads and subscriptions, especially with franchises like Fortnite and Game Pass. Third, prepare for voice-first commerce: optimize discovery and checkout flows for remote control and AI agents to capture the projected \$5B+ opportunity. Finally, move beyond basic reach metrics; adopt household level frequency capping to stay within the 3–5 weekly impressions sweet spot, avoiding ad fatigue while maximizing ROI. These aren't just trends—they're the pillars of a more interactive, measurable, and profitable streaming future.

Part XI: Strategic Case Studies – Winning Moves in the CTV Arena

CXOs remember stories, not just statistics. These one-page snapshots dissect the most consequential strategic bets in the modern CTV landscape and extract the transferable lessons for your business.

1. Netflix’s Ad-Tier Transformation: From “No Ads” to Ad Juggernaut



EVOLVING THE WORLD’S LEADING STREAMER INTO THE WORLD’S MOST POWERFUL **ENTERTAINMENT PLATFORM**.

- **The Pivot:** After years of staunch refusal, Netflix launched an ad-supported tier in late 2022, accelerating its roll-out through 2025. The decision was forced by subscriber saturation and the need to reignite growth with price-sensitive consumers.
- **Key Metrics:** The ad tier now has 94 million users (35% of U.S. subs), 190 million global monthly active viewers, and generated \$1.14B in ad revenue in 2025—surpassing Disney+.
- **Why It Worked:** Netflix didn’t just add ads; it re-architected its product. It offered a low-cost on-ramp (\$6.99) that attracted 15M+ new subscribers who would never pay \$15.50. It then layered in programmatic capabilities, partnered with Microsoft and later built its own ad tech stack, and now delivers dynamic ad loads of 4–5 minutes/hour.

CXO Takeaway: A pure-play SVOD model is a luxury. The hybrid approach expands TAM, reduces churn, and builds an ad revenue flywheel that can overtake subscription income in total lifetime value per user. The speed of execution matters: Netflix went from zero to a billion-dollar ad business in three years by treating the ad tier as a core product, not a side experiment.

2. Amazon Prime Video's Ad-Default Economics: The Power of Opt-Out

prime video

AMAZON PRIME VIDEO'S AD-DEFAULT ECONOMICS: THE POWER OF OPT-OUT

More Reach. More Engagement. More Revenue.
The future isn't ad-free. It's ad-smart.

MASSIVE SCALE Hundreds of millions of Prime members automatically reached.	HIGHER REVENUE Ads drive incremental revenue with high margins.	LOWER PRICE POINT Keeps Prime affordable while expanding total addressable market.	POWER OF DEFAULT Defaults drive behavior. Opt-out is the new opt-in.	SMARTER ADS First-party data + commerce insights drive relevance and performance.
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AD-SUPPORTED STANDARD INCLUDED BY DEFAULT

AD-FREE OPTION
Opt-Out Anytime
Upgrade to Ad-Free
+\$2.99 / month*

DEFAULT DRIVES SCALE. + CHOICE DRIVES TRUST. + ADS DRIVE GROWTH.
Amazon Prime Video is turning the economics of streaming on its head—by making ads the default and delivering value to everyone.

- **The Strategy:** In early 2024, Amazon switched its entire Prime Video user base (115M+ U.S. households) to an ad-supported default experience. Viewers could pay an additional \$2.99/month to remove ads.
- **The Numbers:** The move expanded the ad-supported base to 130 million U.S. customers by 2025, with 315 million monthly viewers globally. Early data suggests only 10–15% of users pay to remove ads; the other 85–90% generate advertising ARPU that far outweighs the minority's subscription premium.
- **Why It's a Masterstroke:** Amazon flipped the acquisition model. It didn't have to "convince" users to join an ad tier; it made ads the default and sold the ad-free experience as a luxury add-on. The result is a massive, instant inventory pool for its booming retail media business, combining shopping behavior with streaming viewership in a closed-loop attribution paradise.

CXO Takeaway: "Default" is the most powerful choice architecture. The ad-default model instantly scales your addressable ad inventory while protecting the premium tier's margins. If you have the ecosystem leverage (retail, data, logistics), you can create a commerce-advertising flywheel that competitors cannot match.

3. Roku's Monetization Strategy: The Platform That Sells the Shovels

Roku®

MONETIZATION STRATEGY:

THE PLATFORM THAT SELLS THE SHOVELS

Roku doesn't make the content. It empowers everyone else to do so—and **earns every step of the way.**



-  **80M+**
Active Accounts and Growing
-  **\$3.5B+**
Platform Revenue (TTM)
-  **High Margin**
Asset-Light Business Model
-  **Partner of Choice**
for Content, Advertisers & Brands



1. PLATFORM
Roku OS powers millions of streaming experiences.



2. AUDIENCE
We connect content owners with engaged, hard-to-reach viewers.



3. ADVERTISING
Targeted ads across premium inventory drive strong ROI.



4. TRANSACTIONS
Subscriptions, rentals, and purchases processed seamlessly.



5. REVENUE
Every stream, ad, and transaction creates value.

WE DON'T DIG FOR GOLD.
WE BUILD THE PICKS AND SHOVELS.

Roku's platform strategy turns scale into monetization
—across content, ads, and commerce.



- **The Model:** Roku is not a content creator; it is the leading CTV operating system and aggregator, controlling 37% of U.S. CTV ad impressions. Its revenue comes from two intertwined engines: 1) platform fees (a 15–30% cut of all subscriptions and ad inventory sold through Roku Pay and The Roku Channel), and 2) its own advertising business built on proprietary ACR data.
- **Key Tactics:** Roku monetizes the home screen (sponsored tiles, search ads), owns a massive FAST service (The Roku Channel), and acts as a programmatic ad marketplace. Its ACR data, taken from millions of Roku TVs and devices, gives it unique insights into cross-app viewing, which it packages for advertisers.
- **Why It's Resilient:** Even if individual streaming apps churn, Roku's aggregation layer captures value across the entire ecosystem. It benefits from the fragmentation it helps to organize.

CXO Takeaway: Being the platform is more durable than being a player on it. For device OEMs and aggregators, the highest-margin strategy is to build the home screen, own the payment relationship, and monetize the data exhaust of the entire ecosystem, not just your own app. For content services, understand that using Roku comes with a strategic tax—balance it with direct-to-consumer distribution.

4. YouTube's CTV Dominance: The Unbundled Giant You Can't Ignore

YouTube
YOUTUBE'S CTV DOMINANCE: THE UNBUNDLED GIANT YOU CAN'T IGNORE

YouTube isn't just part of the streaming revolution—it's leading it. **On every screen.** In every living room.

ONE PLATFORM. EVERY SCREEN. ENDLESS IMPACT.

Smart TV | Mobile | Tablet | Laptop | Gaming Console

MASSIVE REACH
Over 2.5B MAUs across devices

CTV LEADER
#1 most-watched streaming service on CTV in the U.S.

UNMATCHED ENGAGEMENT
Lean-back viewing. Real connection.

ADVERTISER POWERHOUSE
Performance + brand at scale

CONTENT EVERYWHERE
Long-form, Shorts, Live, News, Sports, Podcasts & more

1B+ HOURS WATCHED ON CTV DAILY

200M+ VIEWING ON THE BIG SCREEN EVERY MONTH

#1 STREAMING PLATFORM BY TOTAL WATCH TIME ON CTV

BILLIONS IN AD REVENUE & GROWING

THE FUTURE OF TV ISN'T COMING. IT'S ALREADY HERE.

YouTube | Watch. Connect. Win.

- **The Blinder:** While the industry focuses on Netflix vs. Disney, YouTube has quietly become the largest CTV platform by watch time. It reaches ~150 million U.S. CTV viewers, with over 1.2 billion global daily watch hours on TV sets.
- **Unique Playbook:** YouTube is the only major platform that successfully merges professional content, creator-generated video, live streams, and shorts into one seamless CTV experience. Its advertising model is dual-purpose: brand awareness (high-reach pre-rolls) and direct response (shoppable in-feed video ads), all connected via Google's identity graph.
- **Performance Culture:** Ad buyers treat YouTube CTV as a substitute for linear TV, but with measurable, clickable outcomes. Its creator content (over 70% of watch time) drives engagement at a fraction of traditional content costs.

CXO Takeaway: YouTube must be part of every CTV strategy—as a benchmark, a distribution partner, and an advertising channel. For new streamers, building a YouTube CTV presence can be a lower-risk, data-rich testing ground before investing in a standalone app. The platform's full-funnel capability (awareness to commerce) is a structural advantage that traditional streamers must urgently replicate.

5. Disney's Bundle Economics: Churn-Proofing with the Power of Three

Disney
THE DISNEY BUNDLE ECONOMICS:
CHURN-PROOFING
WITH THE POWER OF THREE

THE DISNEY BUNDLE (DISNEY+, HULU, ESPN+) IS THE INDUSTRY'S MOST EFFECTIVE CHURN-REDUCTION MACHINE

- MORE VALUE. MORE TO LOVE.**
Three premium experiences. One great price.
- LOWER CHURN. STRONGER LOYALTY.**
Subscribers stay longer when all three are in the mix.
- HIGHER LIFETIME VALUE.**
Bundle subscribers spend more. Stay longer. Churn less.
- UNMATCHED CONTENT POWER.**
Kids, adults, sports fans—something for everyone in one seamless bundle.

THE RESULT?
LESS CHURN. MORE GROWTH.
A BUNDLE THAT KEEPS WINNING.

Disney+ + Hulu + ESPN+ = ONE UNSTOPPABLE BUNDLE. ENDLESS REASONS TO STAY.

- MILLIONS OF BUNDLE SUBSCRIBERS AND GROWING
- SIGNIFICANTLY LOWER CHURN THAN STANDALONE STREAMING SERVICES
- THE MOST COST-EFFECTIVE WAY TO DELIVER PREMIUM ENTERTAINMENT AT SCALE
- BUILT FOR TODAY. BUILT TO LEAD TOMORROW.

- **The Strategy:** The Disney bundle (Disney+, Hulu, ESPN+) is the industry's most effective churn-reduction machine. By early 2026, 95% of Disney+'s gross additions were coming through bundled plans, many via telco and aggregator partnerships.
- **The Math:** The bundle lowers direct ARPU per service but slashes churn to the lowest in the industry and virtually eliminates standalone CAC. The multi-service bundle creates a sticky content ecosystem: family entertainment (Disney+), general adult entertainment (Hulu), and live sports (ESPN+), covering the entire household's needs.
- **Why It's Strategic:** Disney trades a short-term ARPU haircut for long-term lifetime value, turning a volatile, single-service subscription into a sticky household utility. The bundle also provides a massive, stable audience base that can be progressively up-sold on ad tiers and premium add-ons.

CXO Takeaway: In a saturated market, bundling is the most powerful tool to reduce churn and CAC simultaneously. The key is to design bundles that cover multiple household psychographics (kids, adults, sports fans) and secure distribution through telco partners, even if it means accepting a margin tax. The strategic question is not *if* to bundle, but *with whom* and at what mix.

Part XII: Future Outlook and Strategic Implications

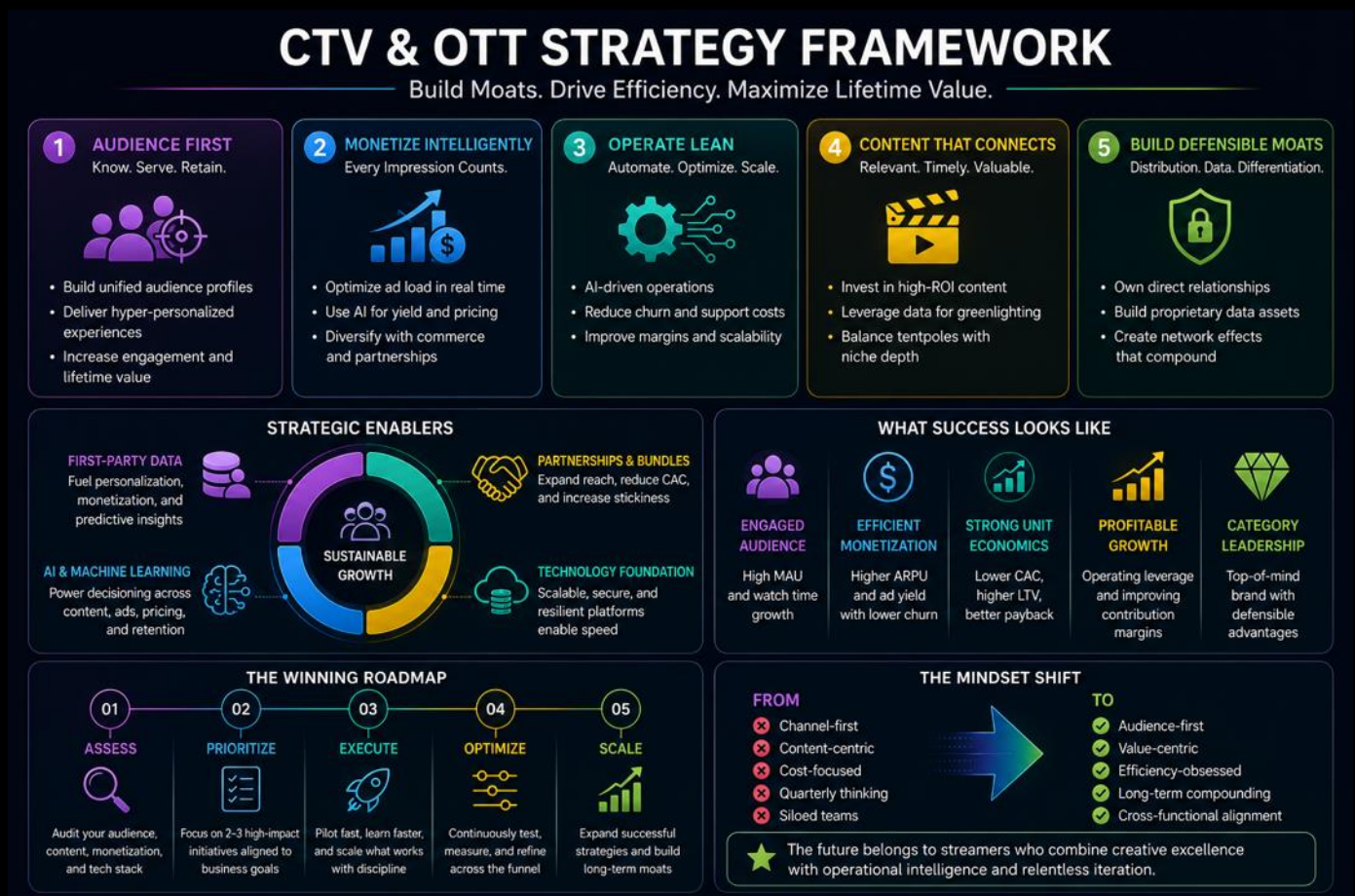
Short-Term (2026–2027) – Programmatic dominates (70%+), ad tiers default, measurement consolidation, retail media convergence.

Medium-Term (2028–2030) – CTV ad spend surpasses linear, AI-native advertising, privacy-first targeting, continued M&A.

Contrarian Predictions – 1) SVOD-only survives as niche, 2) YouTube captures more TV ad budgets, 3) Retail media outpaces CTV ad growth, 4) Most FAST channels fail, 5) Measurement standardization remains incomplete.

Strategic Recommendations for CXOs – 1) Accelerate programmatic transformation, 2) Build measurement accountability, 3) Prepare for privacy regulation, 4) Embrace hybrid models, 5) Invest in creative differentiation, 6) Monitor retail media convergence, 7) Prioritize fraud prevention.

Recommendations for Newcomers – Enter with differentiated value, choose platform partners wisely, build for programmatic from day one, understand measurement early, plan for hybrid revenue, invest in compliance, focus on retention.



Part XII-B: What Happens If You Do Nothing? The Risks of Inaction

Failing to transform carries real, measurable risks that escalate over the next 24-36 months:

- **Irreversible Margin Collapse:** Legacy cost structures combined with declining linear revenues create an inescapable margin vise.
- **Critical Audience Erosion:** The most valuable demographics will migrate to digital-native platforms where you lack a differentiated presence.
- **Permanent Ad Spend Displacement:** Performance budgets will shift to platforms (Retail Media, YouTube) with closed-loop attribution, leaving you with a shrinking share of static CPM-based budgets.
- **Loss of First-Party Data Control:** Over-reliance on aggregators re-intermediates your customer relationship, making you a blind wholesale content supplier.
- **Strategic Talent Drain:** The best AI, data science, and product talent will gravitate to AI-native companies, not those struggling to digitally transform.

Part XII-C: The Streaming Company of 2030 — A Vision of the Winner

**THE 2030
STREAMING WINNER**
ISN'T A MEDIA COMPANY THAT "ADAPTED TO DIGITAL."
**IT WILL BE AN AI-ENABLED
MONETIZATION PLATFORM**
THAT HAPPENS TO DISTRIBUTE VIDEO.



HERE IS ITS BLUEPRINT:



THE QUESTION FOR EVERY LEADER READING THIS IS:

**WILL YOUR ORGANIZATION
BE THIS COMPANY,** — OR —

**WILL YOU BE
SELLING YOUR
LIBRARY TO IT?**

CONTENT
LIBRARY

By 2030, the company that wins the streaming market will not be a traditional media company that “adapted to digital.” It will be an AI-enabled monetization platform that happens to distribute video. Here is its blueprint:

Organization Structure: Flat, cross-functional pods—Revenue Operations, Data & Identity, Content Finance, AI Operations—operating without any linear/broadcast silo. The Chief Data Officer sits at the same table as the CEO, and a single P&L governs all video revenue.

Monetization Model: A perfectly balanced 40/40/20 blend of subscription, advertising, and commerce/licensing revenue. Ad-supported is the default experience. Subscription tiers exist for premium commercial-free access and exclusive content. Commerce—shoppable video, integrated in-stream purchases—contributes a meaningful, growing slice of the margin.

AI Layer: A central AI brain orchestrates ad yield (autonomous pricing, dynamic load balancing), predictive churn intervention, personalized content discovery, and automated metadata extraction. Content greenlight decisions are supported by ROI models with 90%+ accuracy. The AI layer learns in real time from every viewer interaction.

Measurement Stack: Incrementality is the dominant metric, powered by a proprietary clean room connected to retail, telco, and payment partners. Reach and frequency are secondary to household-level attention metrics & causal sales lift. The ad stack is fully programmatic with direct publisher integrations, eliminating hidden fees.

Identity Architecture: Deterministic, based on authenticated logins across all services. The first-party identity graph is the company’s most valuable asset, enriched by partnerships but never rented. Privacy-by-design ensures consent and transparency are built into every touchpoint.

Operating Cadence: Continuous A/B testing replaces annual planning. Cross-functional squads deploy, measure, and iterate on content, pricing, and ad experience weekly. Strategic decisions are made in monthly “contribution margin reviews,” not annual budget cycles.

Commerce Integration: Every piece of content is a potential storefront. Shoppable ads and native commerce moments are standard. The platform knows not only what you watch but what you buy, closing the loop between inspiration and transaction within the same screen.

This company does not merely compete in the streaming market; it defines it. It is the benchmark against which all others are measured. Its executives do not talk about “digital transformation” because the company never had a legacy to transform—it was built for the future from day one.

Part XIII: Key Data Compendium

THE STATE OF STREAMING & CTV IN THE U.S.

MARKET PENETRATION. ADVERTISING GROWTH. VIEWING EVOLUTION.



1 MARKET PENETRATION

	CTV penetration in U.S. households (2025)	90%
	SVOD penetration of U.S. internet households (2025)	91%
	AVOD household penetration (Q4 2025)	68%
	Streaming households	96.4 MILLION
	CTV households (2025)	~117 MILLION
	CTV households by 2027	121 MILLION

2 ADVERTISING

U.S. CTV AD SPEND (BILLION USD)



40% CTV ad spend as % of TV spend (2026) **~40%**

FAST U.S. viewing hours growth (YoY)
Reached 1.8B hours in August 2025 **+43%**

Netflix ad revenue (2025)
\$1.14 BILLION
35% of U.S. subscribers on ad tier

Netflix global MAVs on ad tier **190 MILLION**

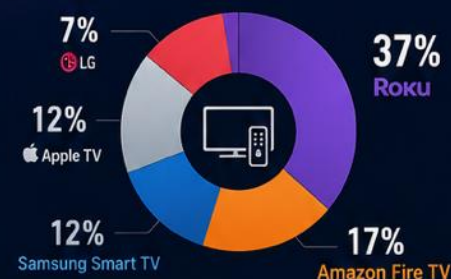
Amazon Prime Video U.S. ad-supported users **130 MILLION**

Amazon Prime Video global ad-supported viewers **315 MILLION**

3 VIEWING BEHAVIOR



4 DEVICE MARKET (U.S., Q2 2025)



5 PROGRAMMATIC CTV (2026)

	Marketers expecting >60% programmatic transaction	51%
	Marketers moving budgets from linear to CTV	45%
	Marketers citing AI optimization as essential	82%
	CTV share of average media budgets	26%
	Marketers expecting programmatic investment increase	58%



STREAMING IS THE PRESENT. CTV IS THE FUTURE.
AUDIENCES ARE HERE. AD DOLLARS ARE FOLLOWING. GROWTH IS ACCELERATING.



Part XIV: Glossary of Essential Terms

Term	Definition
ACR (Automatic Content Recognition)	Technology that identifies content displayed on screen for measurement and targeting
AVOD (Ad-Supported Video on Demand)	Streaming content monetized through advertising rather than subscription fees
CTV (Connected TV)	Television sets connected to the internet, capable of streaming digital content
FAST (Free Ad-Supported Streaming TV)	Linear-style channels delivered over streaming with ad support, no subscription required
IVT (Invalid Traffic)	Non-human or fraudulent ad impressions that should not be counted or billed
OTT (Over-the-Top)	Delivery of video content directly to viewers via the internet, bypassing traditional distribution
Programmatic Advertising	Automated buying and selling of ad inventory through real-time bidding
SOV (Share of Voice)	A platform's percentage of total measurable ad impressions in a given market
SPO (Supply Path Optimization)	Process of selecting the most efficient and transparent programmatic supply routes
SVOD (Subscription Video on Demand)	Streaming content monetized through recurring subscription fees
TVOD (Transactional Video on Demand)	Pay-per-view or rental model for individual content items
VPPA (Video Privacy Protection Act)	1988 federal law restricting disclosure of consumers' video viewing information

Additional Advanced Terms

SSAI (Server-Side Ad Insertion)

Technology that stitches ads directly into video streams, improving user experience and reducing ad-blocking risk.

DSP (Demand-Side Platform)

Platform used by advertisers to buy programmatic ad inventory in real time.

SSP (Supply-Side Platform)

Platform used by publishers to sell ad inventory programmatically.

eCPM (Effective Cost per Mille)

Revenue generated per 1,000 impressions, used to evaluate monetization efficiency.

Fill Rate

Percentage of available ad inventory that is successfully monetized.

Clean Room

Secure data environment where multiple parties can match datasets without sharing raw user-level data.

Incrementality

Measurement of the true causal impact of advertising beyond baseline behavior.

Frequency Capping

Limiting how often a user is exposed to the same ad within a defined period.

Conclusion: The Streaming-First Imperative

The US CTV and OTT market has reached an undeniable inflection point. Streaming has overtaken linear television. Advertising dollars are following audiences. AI is operationalizing profitability. And yet, the industry remains fragmented and competitively intense.

Three non-negotiable truths for 2026–2030:

1. **Ad-supported will be the default.** Subscription-only models are structurally limited to premium niches. If you do not have an ad tier, you are limiting your ceiling.
2. **Retail media will disrupt CTV faster than anyone expects.** Walmart-Vizio is just the start. Pure-play streamers must partner for data and commerce, or they will be disintermediated.
3. **Profitability is a present requirement, not a future hope.** Every content decision, every ad load, every bundling deal must be evaluated through a contribution margin lens. The market no longer rewards subscriber promises; it rewards unit economics.

The winners of the next decade will not be traditional media companies adapting to streaming. They will be AI-enabled monetization platforms that happen to distribute video.

For CXOs, the path forward requires strategic clarity, operational agility, and a willingness to embrace hybrid models. For newcomers, barriers are real but surmountable with differentiated value propositions.

The opportunity has never been larger. The competition has never been fiercer. And the time to act has never been more urgent.

Appendix

Appendix A: CTV Strategic Frameworks Summary

1. The CTV Profitability Equation™

Contribution Margin per User = (Subscription + Advertising + Commerce Revenue) – (Content Cost per User + CAC + Infrastructure + Revenue Share). The goal is to maximize Lifetime Contribution Margin.

2. Revenue Stack Framework

Build from Commerce (bottom, uncapped) → Licensing → Advertising → Subscription (top, capped). The most durable companies build from the bottom up.

3. CTV Maturity Model

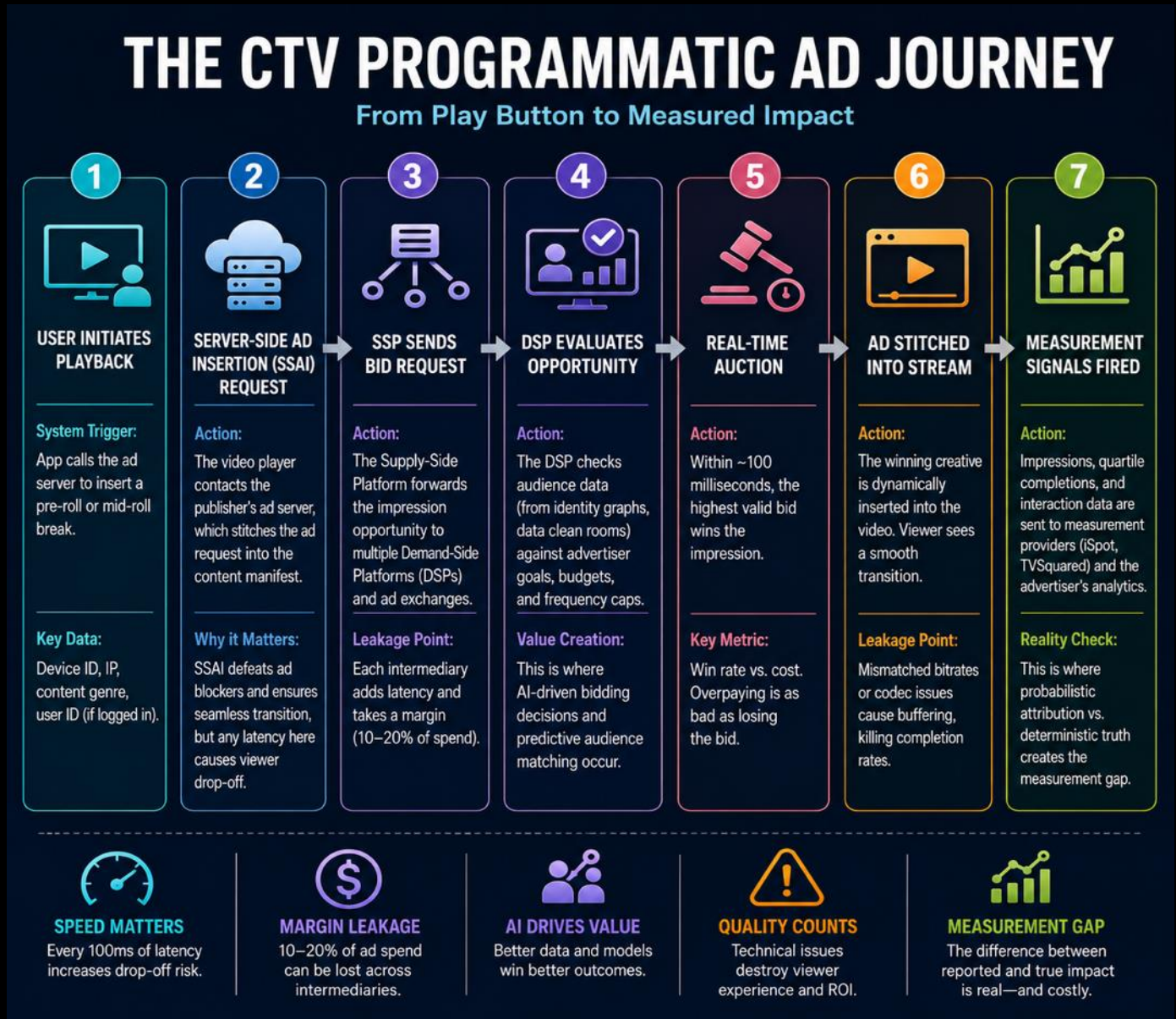
 Stage	 Focus	 Key Metrics
 1. SVOD-only	 Subscriber growth	 Gross adds, churn
 2. Hybrid monetization	 ARPU expansion	 Ad revenue %, blended ARPU
 3. Programmatic-first	 Yield efficiency	 Programmatic share, fill rate, eCPM
 4. AI-optimized + commerce	 Profit maximization	 Contribution margin, ROAS

Appendix B: Key Benchmark Ranges

 METRIC	 HEALTHY BENCHMARK	 WARNING SIGNAL	 WHAT TO DO IF OFF-TRACK
 Ad Load	3–5 min/hour	>6 min/hour spikes churn	A/B test by cohort, offer ad-free upgrade
 eCPM (General)	\$18–30	Below \$15	Invest in first-party data, contextual targeting
 eCPM (Sports)	\$40–80	Below \$30	Package with sponsorships, interactive units
 Monthly Churn	2–3% (organic), 4–6% (paid)	Sustained >6%	Shift acquisition to bundles, engagement triggers
 CAC (Premium)	\$50–80	>\$80	Ramp up bundling, YouTube sampling
 Payback Period	18–24 months	>24 months	Reallocate to bundled/ organic channels
 Blended ARPU (Hybrid)	\$12–18/month	<\$10	Test ad load, tier upselling, commerce

Appendix C: CTV Ad Flow – From User Action to Measurement

This flowchart demystifies the ~300-millisecond journey of a single CTV ad impression, highlighting exactly where value is captured or leaked.



Executive Takeaway: Every step is a point of margin extraction and potential failure. Supply Path Optimization (SPO) and direct publisher integrations are the only ways to ensure that \$0.60+ of every ad dollar actually reaches the content creator. Every step is a potential margin leakage or failure point. SPO and direct integrations are the cure.

Appendix D: The CXO Readiness Checklist

THE CXO READINESS CHECKLIST

ARE WE BUILT TO WIN IN THE NEXT ERA OF STREAMING?

1	2	3	4	5
REVENUE & MONETIZATION	DATA & IDENTITY	PROFITABILITY & CAPITAL	AI & OPERATIONS	TRANSFORMATION
 Hybrid monetization model in place or planned within 18 months? ☐	 First-party identity strategy moving beyond device IDs? ☐	 Contribution margin per user as core unit metric? ☐	 At least one AI-native pilot (yield, churn) sponsored in last 12 months? ☐	 Vision communicated: "We are an AI-enabled data platform that distributes video"? ☐
 True blended ARPU calculated by cohort? ☐	 Clean room partnerships with retailer or telco? ☐	 5-year ROI model for every content greenlight? ☐	 Organizational design shifting to cross-functional pods? ☐	 Can our organization learn and adapt faster than our competitors? ☐
 SPO actively managing programmatic fees? ☐	 Household-level frequency capping implemented? ☐	 Payback period on paid subscribers trending below 24 months? ☐		



**THE FUTURE
FAVORITES THE PREPARED.**



STRATEGY
ALIGNED



EXECUTION
FOCUSED



GROWTH
DRIVEN



RESILIENCE
BUILT

USE THIS CHECKLIST.
DRIVE ACTION.
WIN THE FUTURE.



For today's streaming executives, the question is no longer about scaling subscribers at any cost—it's about building a sustainable, intelligent, and profit-driven operation. This checklist cuts through the noise, forcing leaders to evaluate whether their monetization model truly blends ads and subscriptions, whether their identity strategy moves beyond fragile device IDs, and whether every content dollar carries a five-year ROI view. It challenges organizations to adopt household-level frequency capping, clean room partnerships, and AI-native pilots that tackle churn and yield in real time. But the ultimate litmus test is cultural: can your team learn, adapt, and execute faster than the competition—and have you communicated a clear vision of becoming an AI-enabled data platform that distributes video, not just a media company? Streaming's next era belongs to those who answer "yes" to more than a few.

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 - Google/YouTube Advertising Data
 - Hulu & Peacock Public Disclosures
- Omdia
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