



GLOBAL CONNECTED TV (CTV) AD SUPPLY CHAIN TRENDS

Q 2 . 2 0 2 5

An analysis of the state of open programmatic CTV advertising, including trending categories and ad fraud risk.



TABLE OF CONTENTS

Key Stats and Trends	4
Global Ad Spend Trends	5 - 6
Ad Fraud Trends	7 - 9
Top Bundle IDs	10 - 11
Device Market Share	12 - 16
App Counts by Store	17 - 18
Unmapped Bundle IDs	19 - 23
Top Categories by Ad SOV %	24 - 28
Methodology, Glossary, & Disclaimer	31 - 34

COMPARE WITH → [UNITED STATES](#)

SCOPE:

Pixalate's data science team analyzed programmatic advertising activity across over 115 thousand Connected TV ("CTV") apps and over 8 billion global open programmatic ad transactions in Q2 2025 to compile the research in this series. Pixalate's datasets consist predominantly of buy-side open auction programmatic traffic sources.

Pixalate is sharing this data not to impugn the standing or reputation of any person, entity or app, but instead, to render opinions and report trends pertaining to CTV programmatic advertising activity in the time period studied.

REPORT AUTHORS



Tyler Loechner

VP
Research

pixalate



Patrick McClure

Dir. Technical Product
Management

pixalate



Alex Braelow

Analyst

pixalate

AFAC 
AD FRAUD &
COMPLIANCE

pixalate
RESEARCH CENTER

Q2 2025: Global CTV Ad Supply Chain Trends

\$5.7 billion in estimated global **open programmatic CTV ad spend** was recorded in Q2 2025, reflecting a 3% year-over-year decrease, *inclusive of invalid traffic (IVT)*.



18% of global open programmatic CTV traffic in Q2 2025 was identified as **ad fraud (IVT)**, a rate lower than in LATAM (30%), APAC (26%), and EMEA (19%).



Bundle IDs associated with **Fubo** saw the **highest volume of non-IVT open programmatic ad impressions** on Apple TV.



46K apps are **listed on the Roku Channel Store** globally, including 11K that have app-ads.txt files. This is more than Amazon Fire TV (39K, 8K), Apple TV (26K, 3K), and Samsung Smart TV (5K, <1K).



72% of global Amazon Fire TV ad traffic went to apps in the **'Movies & TV'** category, while 15% went to 'Sports' apps and 10% to 'News' apps.





\$5.7B

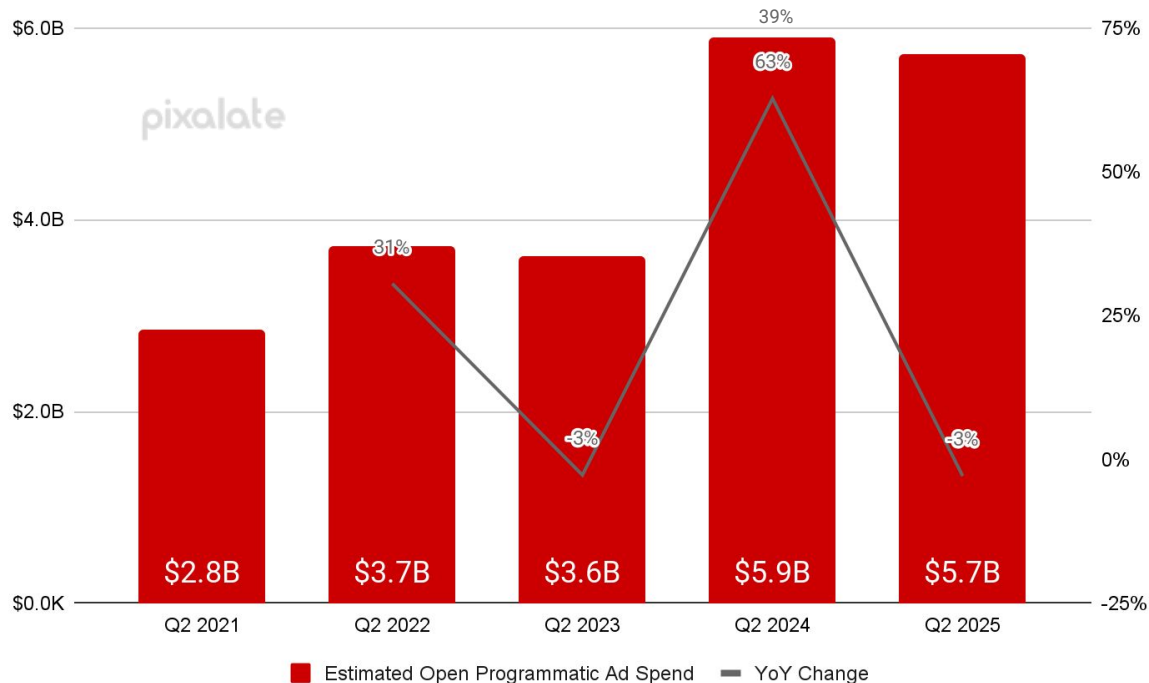
in estimated global **open programmatic CTV ad spend** was recorded in Q2 2025, a 3% YoY decrease, according to Pixalate.





GLOBAL: Q2 2025 Estimated Open Programmatic CTV Ad Spend

Inclusive of Invalid Traffic (IVT); as estimated by Picalate.





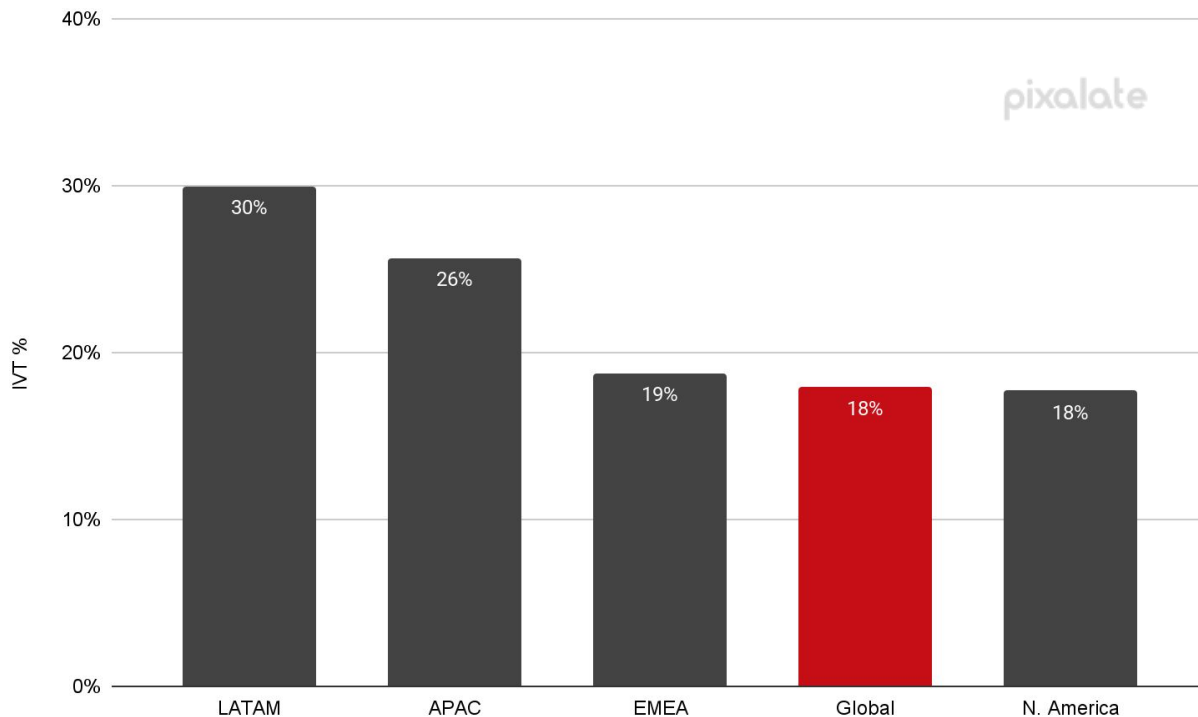
18%

of global open programmatic CTV traffic in Q2 2025 was
identified as ad fraud (IVT), according to Pixalate.



GLOBAL: CTV Ad Fraud (IVT) Remains Steady at 18% in Q2 2025

Invalid traffic ("IVT" - inclusive of ad fraud) per quarter in open programmatic CTV; global; as measured by Pixalate.

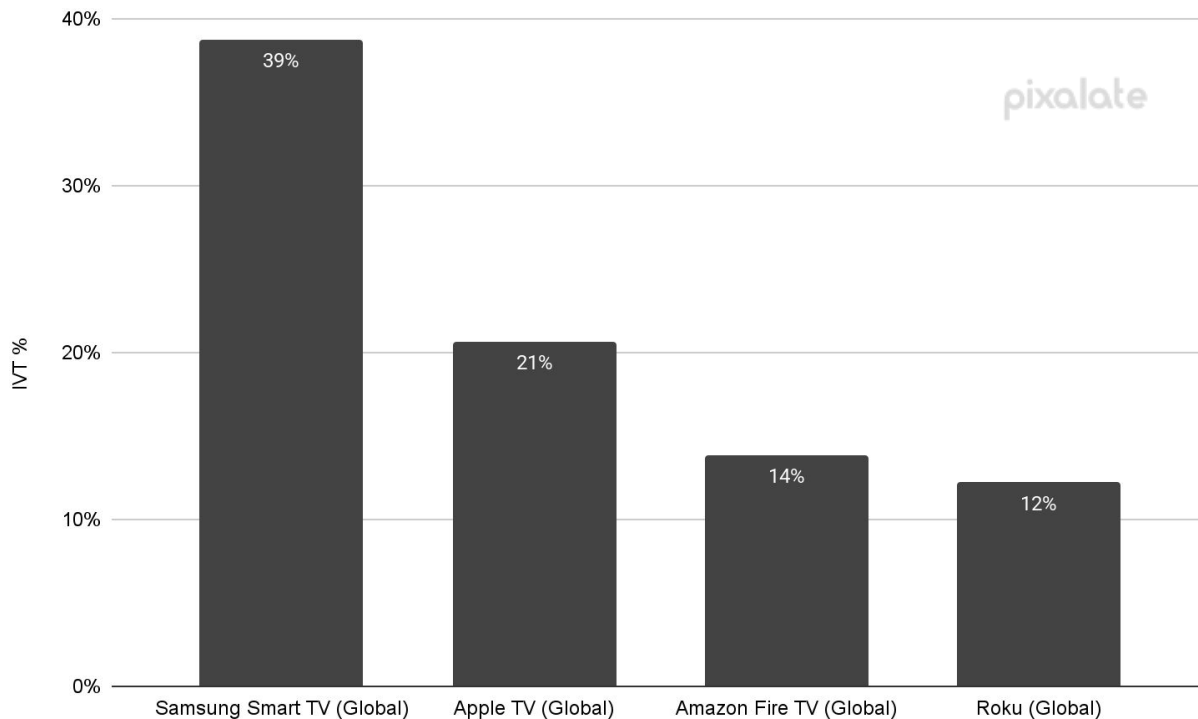


COMPARE → [United States](#), [United Kingdom](#), [Canada](#), [Mexico](#)



GLOBAL: Roku Apps Have the Lowest Ad Fraud (IVT) Rates

Invalid traffic ("IVT" - inclusive of ad fraud) by device type in open programmatic CTV; global; Q2 2025; as measured by Pixalate



COMPARE → [United States](#), [United Kingdom](#), [Canada](#), [Mexico](#)



Fubo

Bundle IDs associated with fuboTV Inc. saw the **highest volume of non-IVT open programmatic ad impressions** on Apple TV, as assessed by Pixalate.



GLOBAL: Top CTV Bundle IDs by Platform

Jun. 2025; based on volume of non-IVT open programmatic ad impressions by platform; as estimated by Picalate.



Roku ▼



Hulu
by Hulu LLC

Bundle ID: com.hulu.plus.roku

Top Seller: Magnite



The Roku Channel by
Roku

Bundle ID: 151908

Top Seller: PubMatic



Tubi
by Tubi, Inc

Bundle ID: 41468

Top Seller: Magnite



Fubo
by fubo

Bundle ID: 43465

Top Seller: PubMatic

Apple tv ▼



Fubo
by fuboTV Inc.

Bundle ID: 905401434

Top Seller: Nexxen



Peacock TV
by Peacock TV LLC

Bundle ID: 1508186374

Top Seller: Screencore



MLB
by MLB

Bundle ID: 493619333

Top Seller: Sonobi



Plex
by Plex Inc.

Bundle ID: 383457673

Top Seller: Nexxen

fire tv ▼



Pluto TV
by Pluto TV

Bundle ID: b00kdsgipk

Top Seller: Sovrn



Fubo
by fubo TV

Bundle ID: b019dchdzk

Top Seller: Nexxen



Lifetime
by A+E Networks

Bundle ID: b00e5nh6yg

Top Seller: PubMatic



Plex
by Plex, Inc.

Bundle ID: b004y1wcde

Top Seller: Nexxen

Samsung SMART TV ▼



SAMSUNG TV PLUS
by Samsung Electronics Co.,
Ltd.

Bundle ID: g15147002586

Top Seller: Magnite



ESPN
by Disney Electronic Content,
Inc.

Bundle ID: g17243010190

Top Seller: TVIQ



Fubo
by fubo

Bundle ID: g19068012619

Top Seller: PubMatic



Plex
by Plex, Inc.

Bundle ID: g00002687241

Top Seller: PubMatic

SEE MORE → [Latest Rankings](#)

SEE MORE → [Latest Rankings](#)

SEE MORE → [Latest Rankings](#)

SEE MORE → [Latest Rankings](#)



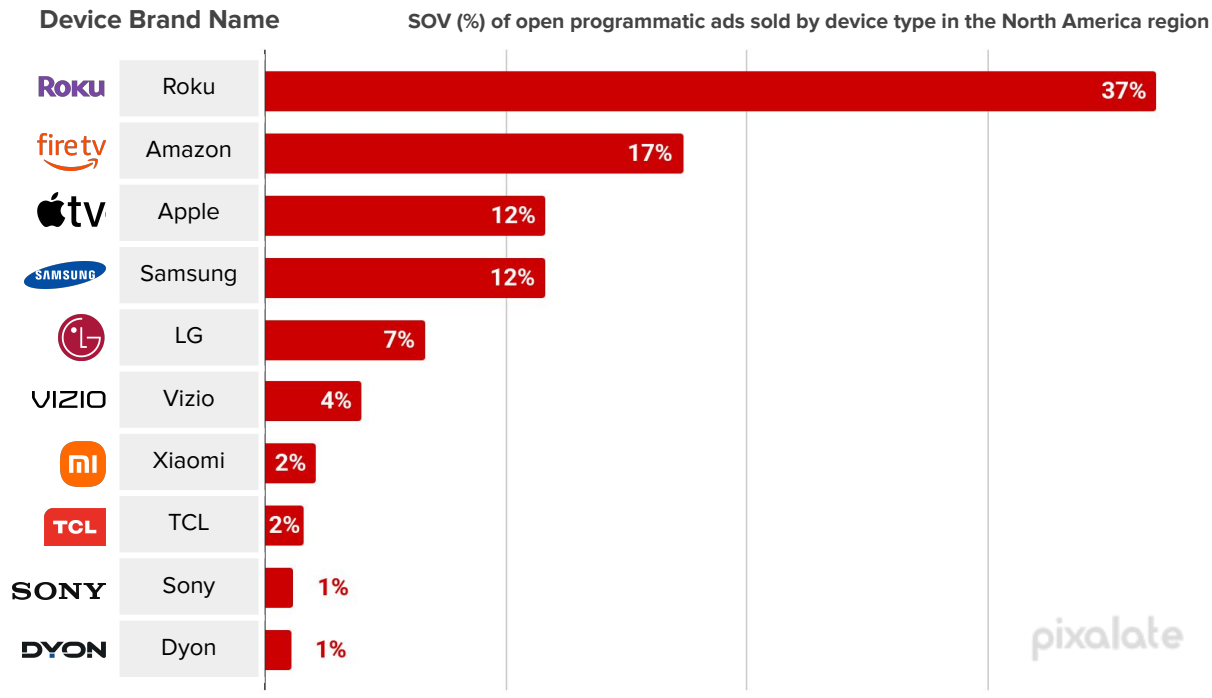


37%

Roku had the highest **CTV device market share** in North America in Q2 2025, according to Pixalate.

NORTH AMERICA: Top 10 CTV Devices by Share of Voice (%)

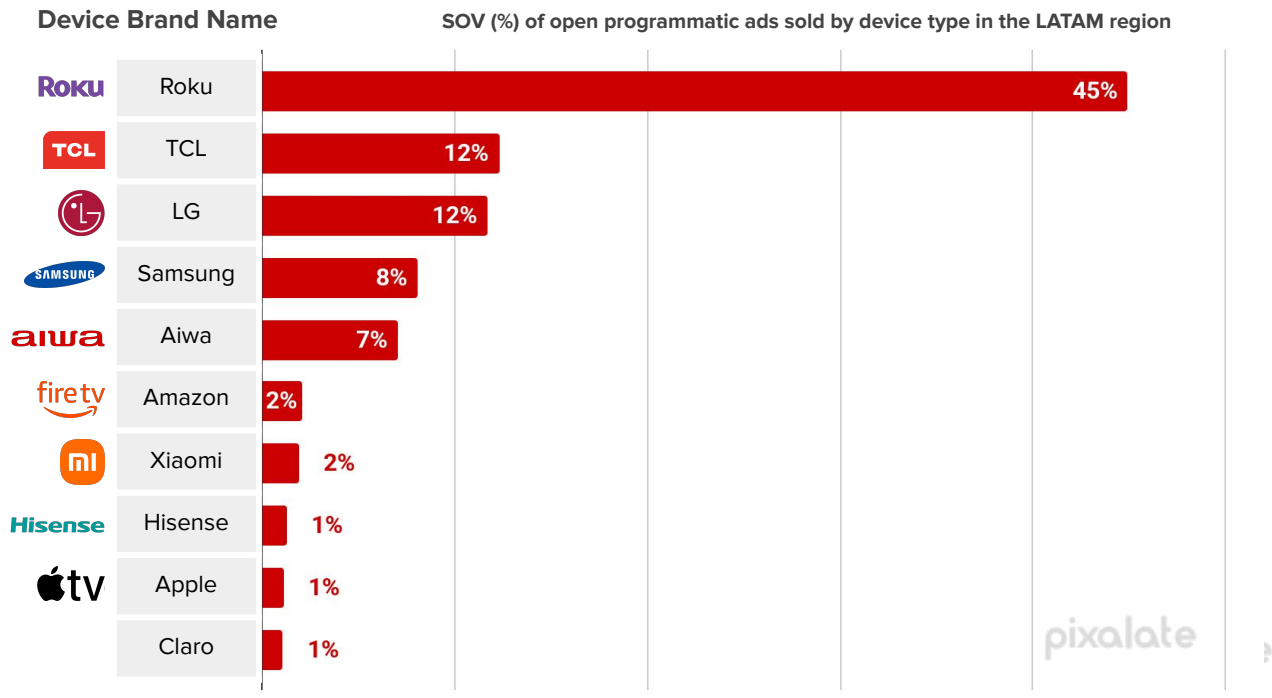
Based on open programmatic advertising traffic in North America; Q2 2025; as measured by Pixalate.



SEE MORE → [Download the latest global and country-level reports](#)

LATAM: Top 10 CTV Devices by Share of Voice (%)

Based on open programmatic advertising traffic in LATAM; Q2 2025; as measured by Pixalate.



SEE MORE → [Download the latest global and country-level reports](#)

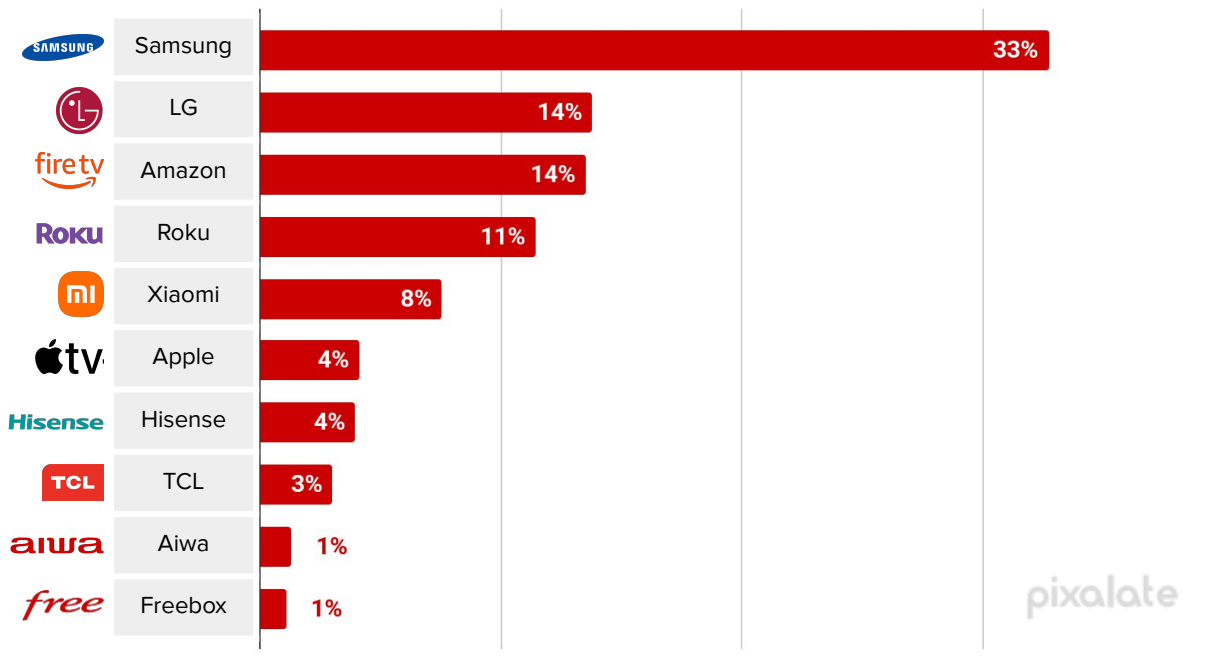
EMEA: Top 10 CTV Devices by Share of Voice (%)

Based on open programmatic advertising traffic in EMEA; Q2 2025; as measured by Pixalate.



Device Brand Name

SOV (%) of open programmatic ads sold by device type in the EMEA region

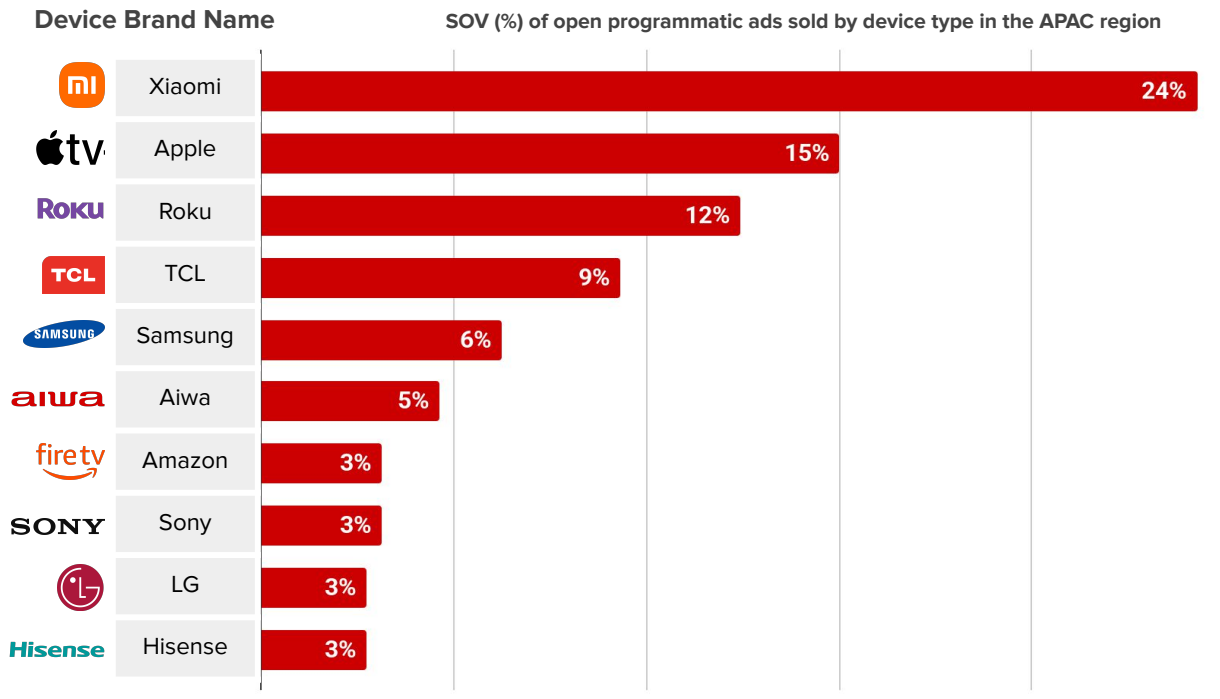


pixalate

SEE MORE → [Download the latest global and country-level reports](#)

APAC: Top 10 CTV Devices by Share of Voice (%)

Based on open programmatic advertising traffic in APAC; Q2 2025; as measured by Pixalate.



SEE MORE → [Download the latest global and country-level reports](#)



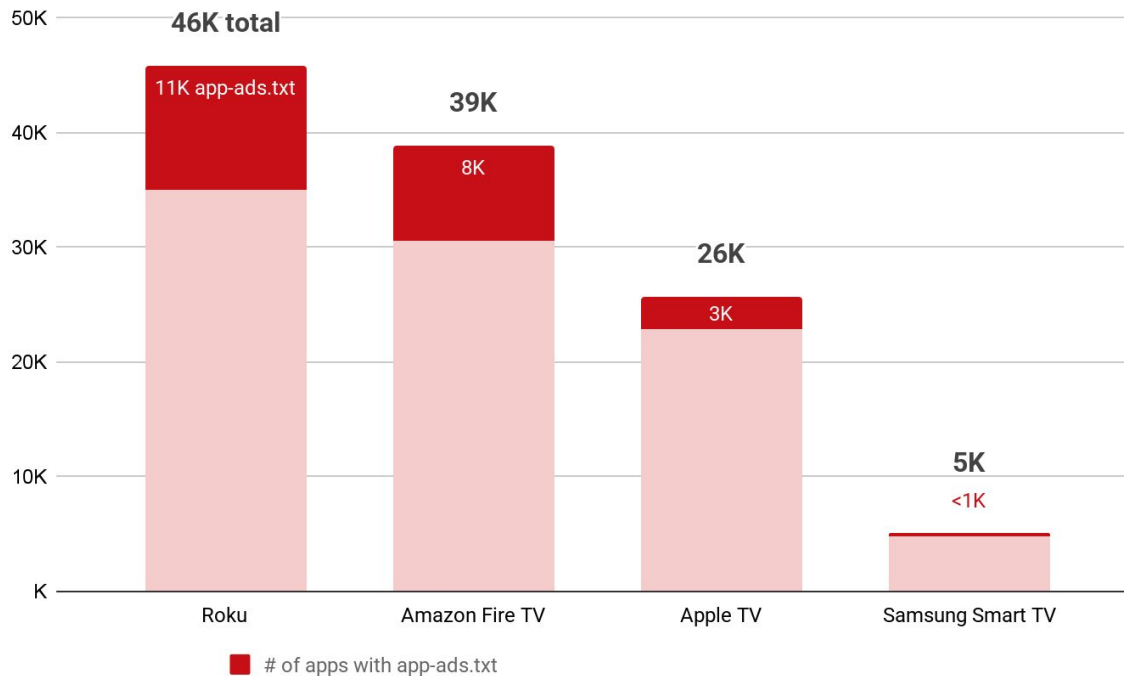
46K

apps are **listed on the Roku Channel Store** globally, including 11K that have app-ads.txt files, according to Pixalate.



GLOBAL: Count of Apps in Leading CTV App Stores, Including Apps with app-ads.txt

Apr. 2025; as estimated by Pixalate.





19%

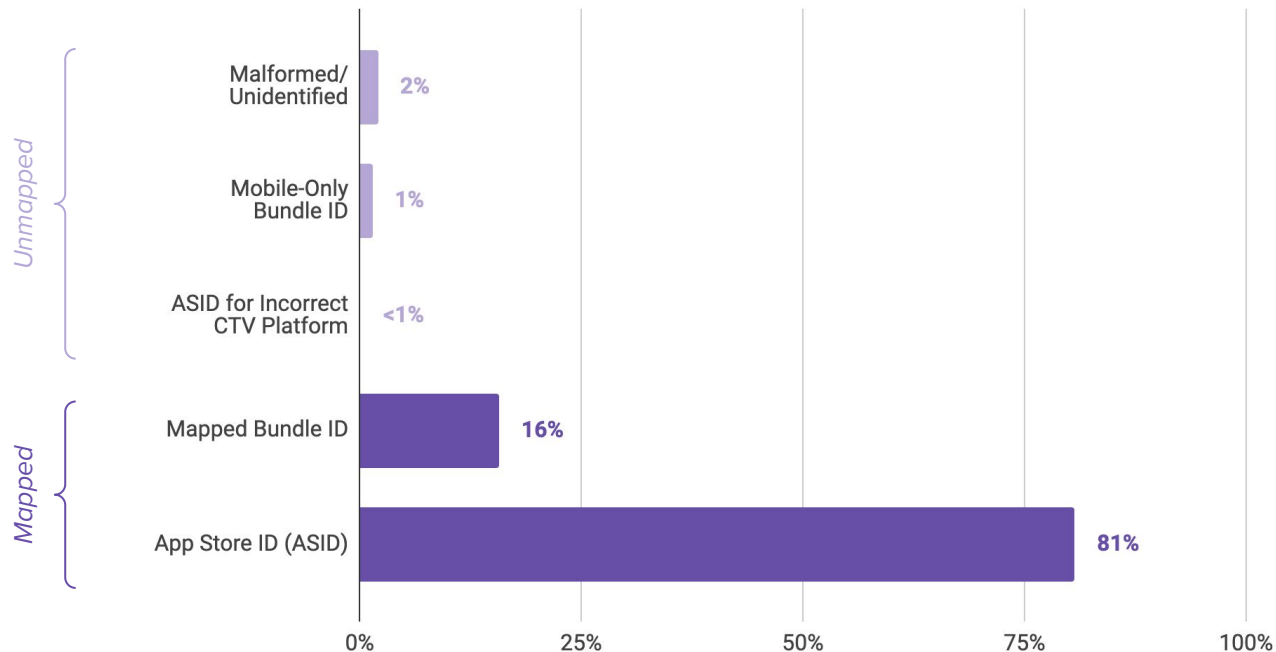
of global Roku open programmatic advertising
traffic did not use official App Store IDs in
Q2 2025, according to Pixalate.





Roku: 19% of Ad Traffic Did Not Use Official App Store IDs

Roku global open programmatic advertising impressions, Jun. 2025, as measured by Pixalate.

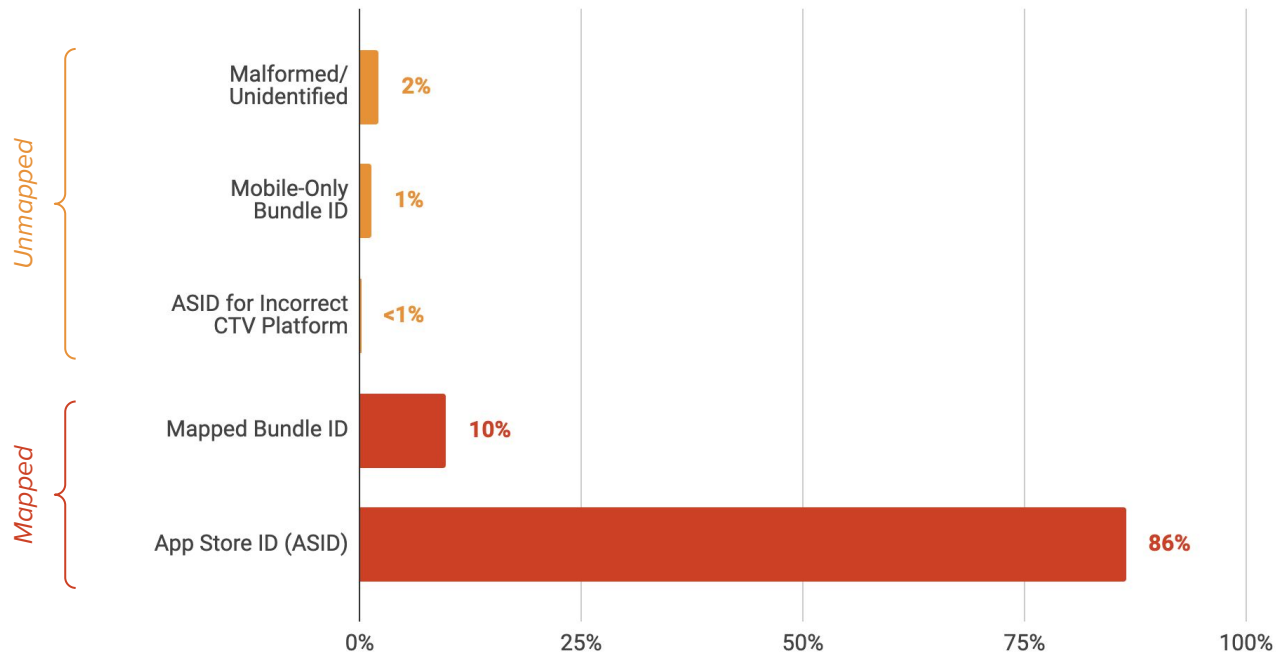


SEE MORE → [Roku Malformed and Fraudulent CTV Bundle ID Risks](#)



Amazon Fire TV: 13% of Ad Traffic Did Not Use Official App Store IDs

Amazon Fire TV global open programmatic advertising impressions, Jun. 2025, as measured by Pixalate.

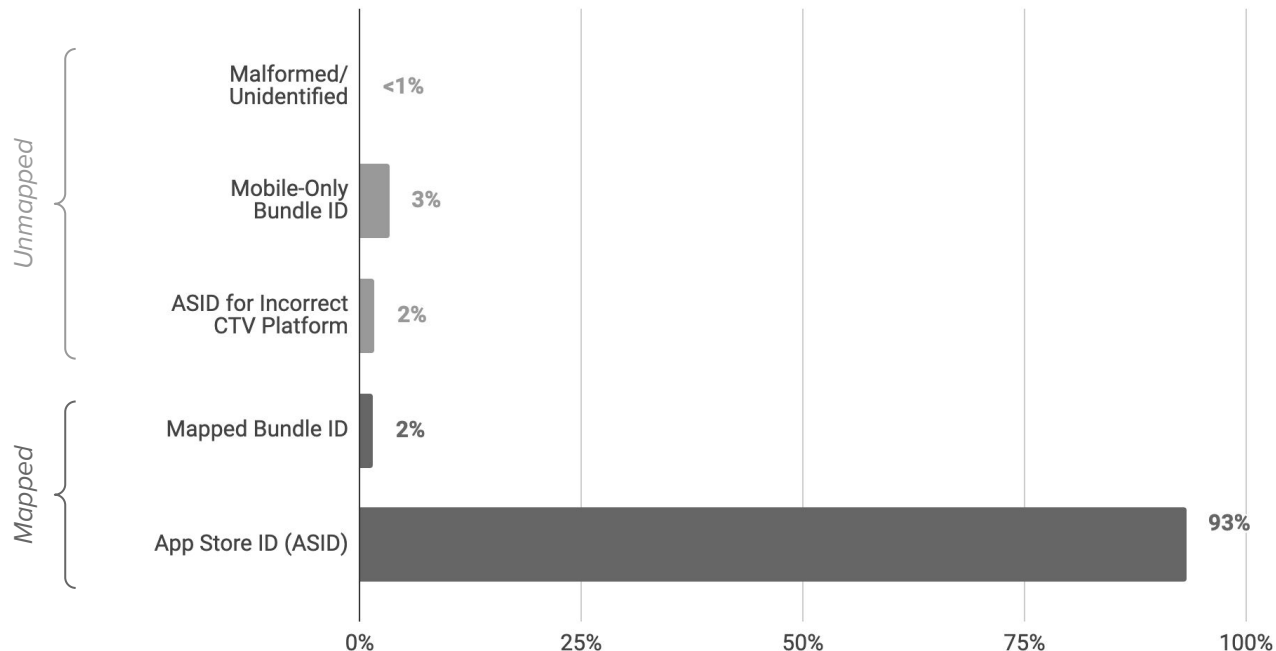


SEE MORE → [Amazon Fire TV Malformed and Fraudulent CTV Bundle ID Risks](#)



Apple TV: 7% of Ad Traffic Did Not Use Official App Store IDs

Apple TV global open programmatic advertising impressions, Jun. 2025, as measured by Pixalate.

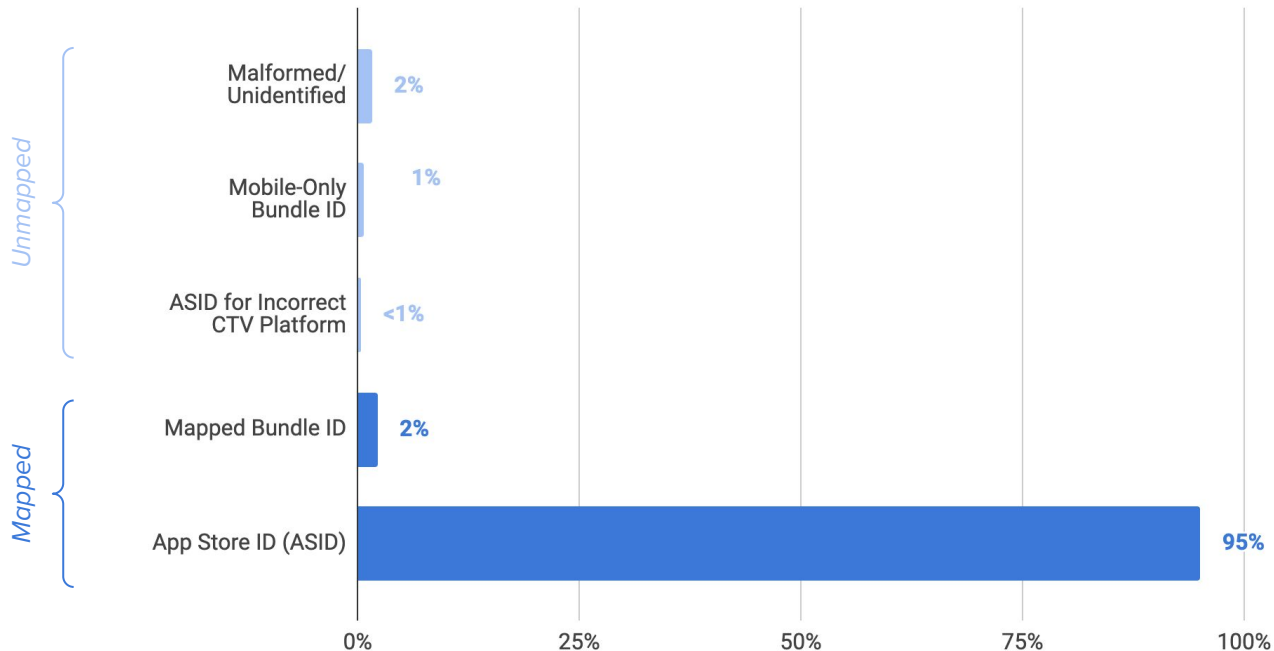


SEE MORE → [Apple TV Malformed and Fraudulent CTV Bundle ID Risks](#)



Samsung Smart TV: 5% of Ad Traffic Did Not Use Official App Store IDs

Samsung Smart TV global open programmatic advertising impressions, Jun. 2025, as measured by Pixelate.



SEE MORE → [Samsung Smart TV Malformed and Fraudulent CTV Bundle ID Risks](#)



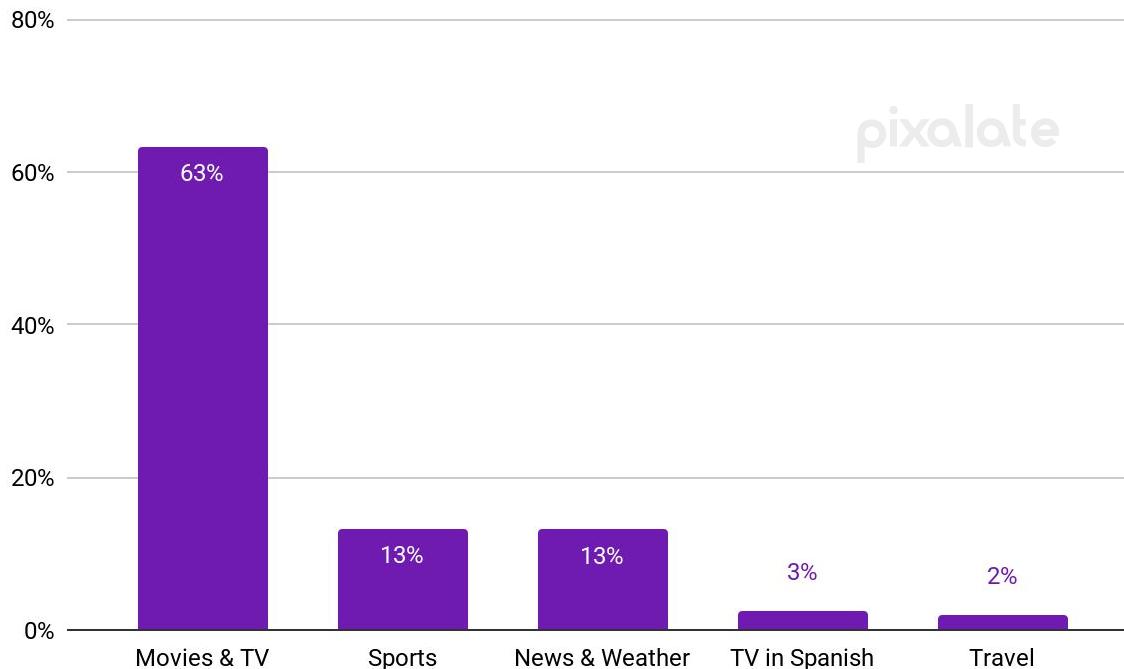
72%

of global open programmatic Amazon Fire TV ad traffic goes to apps in the **'Movies & TV'** category, according to Pixalate.



GLOBAL: Top 5 Roku App Categories (Ad SOV %)

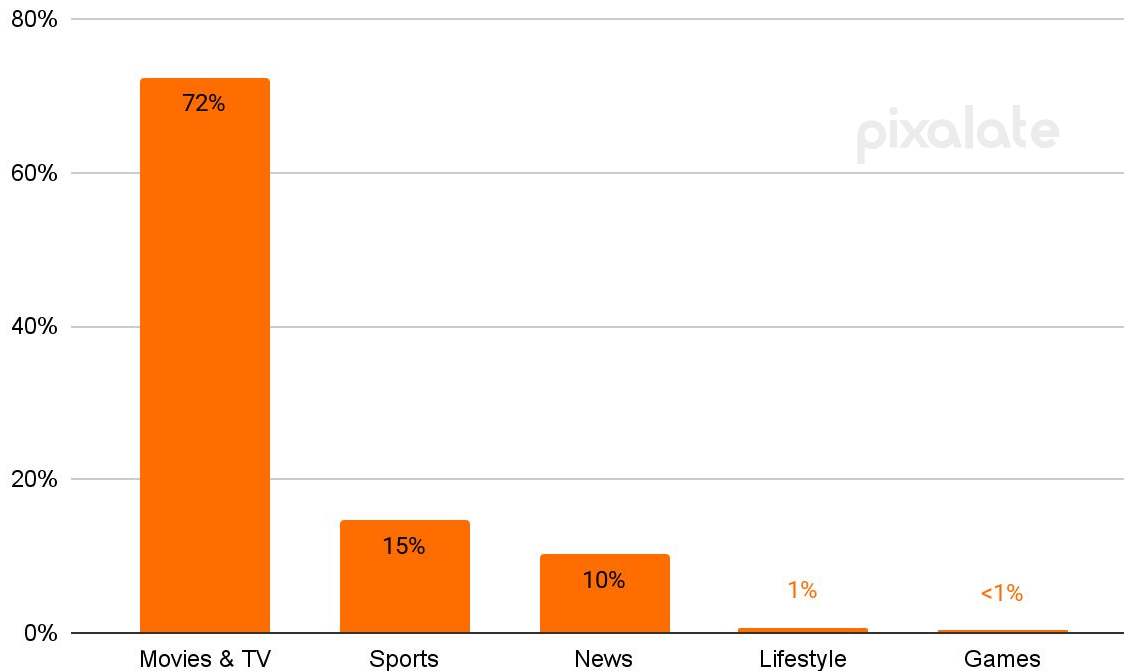
Jun. 2025; based on open programmatic ad SOV % (impressions, IVT included), according to Picalate.





GLOBAL: Top 5 Amazon Fire TV App Categories (Ad SOV %)

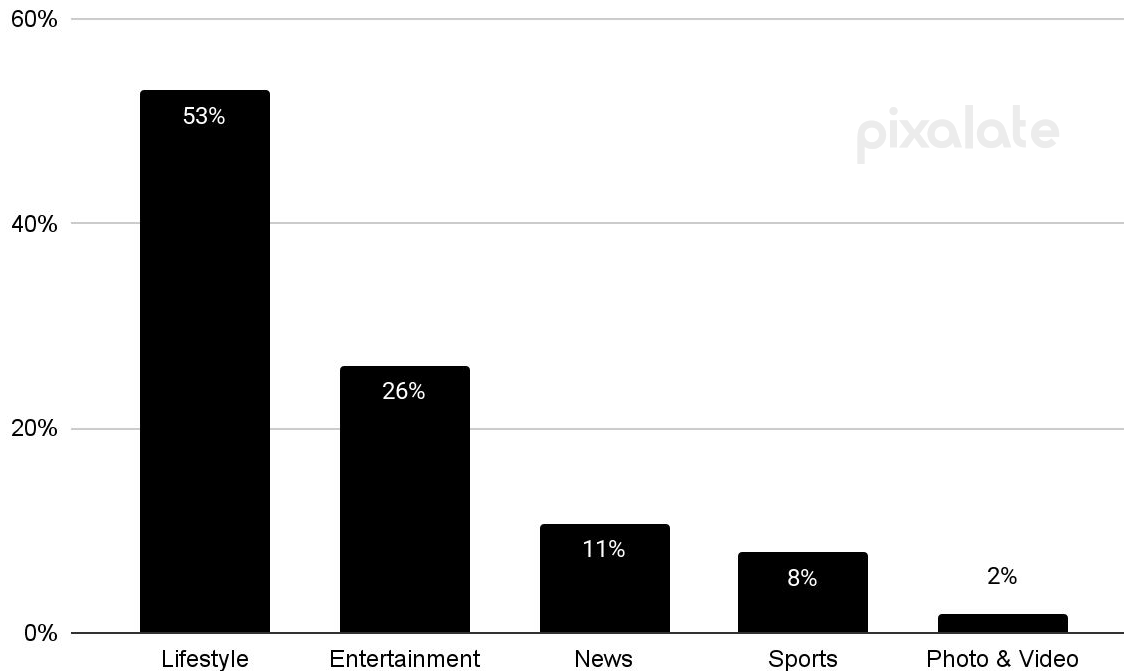
Jun. 2025; based on open programmatic ad SOV % (impressions, IVT included), according to Pixalate.





GLOBAL: Top 5 Apple TV App Categories (Ad SOV %)

Jun. 2025; based on open programmatic ad SOV % (impressions, IVT included), according to Pixalate.

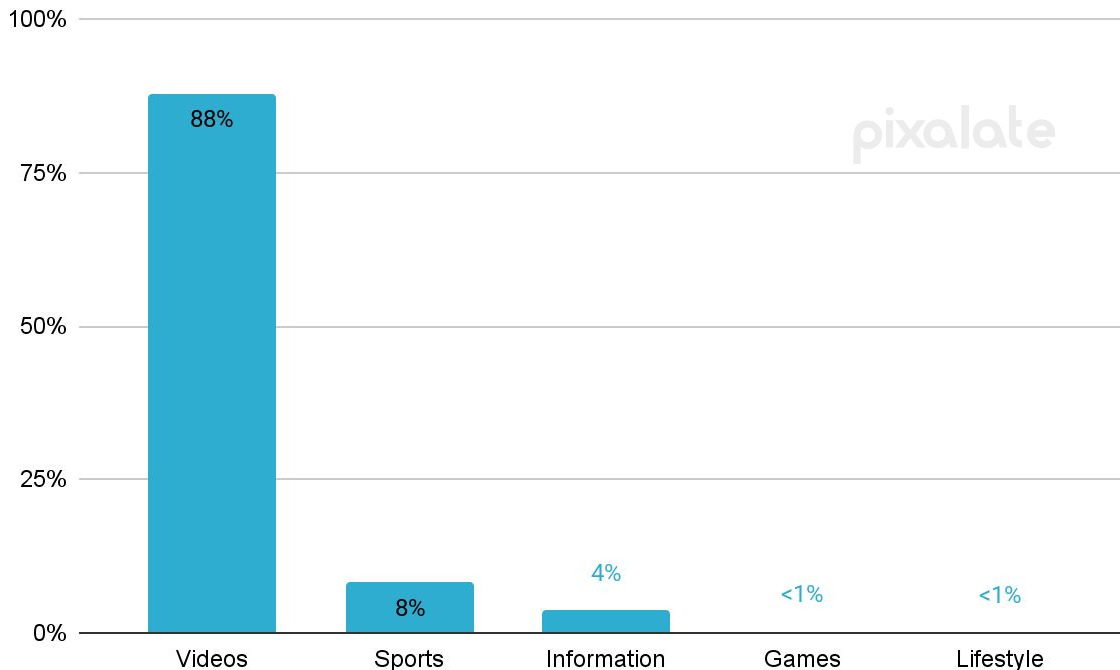




GLOBAL: Top 5 Samsung Smart TV App Categories (Ad SOV %)

Jun. 2025; based on open programmatic ad SOV % (impressions, IVT included), according to Pixalate.

Samsung SMART TV



ADDITIONAL INSIGHTS



RELATED PIXALATE REPORTS

MFA Benchmarks - Web, Mobile, and CTV

Analyzing global open programmatic advertising traffic on MFA web domains, mobile apps, and Connected TV (CTV) apps.

[Discover the latest MFA benchmarks →](#)

Invalid Traffic (IVT) & Ad Fraud Benchmarks

Reviewing IVT rates across websites, mobile apps, and Connected TV (CTV) apps, offering insights into the quality and integrity of programmatic ad impressions worldwide.

[Discover the latest IVT & ad fraud benchmarks →](#)

Click Fraud Benchmarks

Exploring click-related invalid traffic (IVT), with a focus on open programmatic ad traffic across desktop web, mobile web, and mobile app.

[Discover the latest click fraud benchmarks →](#)

Programmatic Ad Seller Misrepresentation

Using Supply Chain Object (SCO) data to examine unauthorized sellers in the open programmatic advertising supply chain.

[Discover the state of ad seller misrepresentation →](#)

Malformed & Fraudulent CTV Bundle IDs

Analyzing a common CTV advertising challenge: the use of Bundle IDs to identify apps and the difficulties associated with reliably mapping these IDs to actual applications.

[Discover the latest trends →](#)



METHODOLOGY, GLOSSARY, & DISCLAIMER



METHODOLOGY

General

Pixalate's data science team analyzed programmatic advertising activity across over 115 thousand Connected TV ("CTV") apps and over 8 billion global open programmatic ad transactions in Q2 2025 to compile the research in this series. Pixalate's datasets — which are used exclusively to derive these insights — consist predominantly of buy-side open auction programmatic traffic sources.

Estimated Ad Spend

Pixalate calculates estimated programmatic ad spend through proprietary statistical models that incorporate programmatic monthly active users (MAU), the average session duration per user, the average CPM for the category of a given app, and ad density.

Global Ad Spend Estimates - CTV Apps

Pixalate global open programmatic CTV ad spend figures (see pages 5 and 6) were calculated by integrating externally sourced data with Pixalate's internally tracked metrics. In the context of this report, third-party data is used to estimate the annual dollar value in 2025. Pixalate's derived quarterly share is then applied to determine the dollar value for Q2 2025 (\$5.7B), and proprietary estimates are utilized to determine QoQ time series and regional trends in 2025.

- Total estimated global digital ad spend (2023): \$627 billion ([Statista](#))
- CTV's estimated share (2023): 9.5% ([eMarketer](#))
- Upfronts' estimated share (2023): 34% ([eMarketer](#))
- Open programmatic estimated share (2023): 50% ([Simplifi](#))
- Estimated share of spend by quarter (Q4 2023, Pixalate): 32.1%
- Yearly and quarterly changes of open programmatic advertising traffic, as measured by Pixalate, are used as a proxy for estimates of changes in ad spend. This is inclusive of invalid traffic.

GLOSSARY

Ad market share / share of voice (SOV)

This is based on the proportion of sold programmatic ads that go to a certain device, operating system, category, etc. For example, if Device X received 20 of 100 total ads one quarter, its market share would be 20% SOV. If Device X then received 36 of 120 total ads the next quarter, its market share would have increased by 50% (from 20% SOV to 30% SOV). This is not inclusive of invalid traffic.

SSP Market Share

Pixelate defines “SSP Market Share” as the percentage of impressions associated with a given SSP out of all impressions within a country for a given platform. For example, if 100 total impressions were measured in Germany, and 10 of them were sold by Google AdExchange, then Google AdExchange would have a 10% market share. Pixelate's SCO mapping technology identifies instances where multiple sellers should receive market share credit for the same impression (i.e., reselling). This can result in a country's total SSP market share exceeding 100%.

Connected TV/OTT

Also referred to as “CTV” in this report. Pixelate defines CTV based on the device being used by the end-user. Examples of CTV devices include Apple TV, Roku, Amazon Fire TV, Smart TVs, and gaming platforms.

Invalid Traffic

Per the [Media Rating Council \(MRC\)](#), “‘Invalid Traffic’ is defined generally as traffic that does not meet certain ad serving quality or completeness criteria, or otherwise does not represent legitimate ad traffic that should be included in measurement counts. Among the reasons why ad traffic may be deemed invalid is it is a result of non-human traffic (spiders, bots, etc.), or activity designed to produce fraudulent traffic.” Certain IVT is also sometimes referred to as “ad fraud.” Per the [MRC](#), “‘Fraud’ is not intended to represent fraud as defined in various laws, statutes and ordinances or as conventionally used in U.S. Court or other legal proceedings, but rather a custom definition strictly for advertising measurement purposes.

DISCLAIMER

The content of this report reflects Pixalate's opinions with respect to the factors that Pixalate believes can be useful to the digital media industry. Any data shared is grounded in Pixalate's proprietary technology and analytics, which Pixalate is continuously evaluating and updating. Any references to outside sources should not be construed as endorsements. Pixalate's opinions are just that, opinions, which means that they are neither facts nor guarantees.

Pixalate is sharing this data not to impugn the standing or reputation of any entity, person or app, but, instead, to report findings and trends pertaining to the time period studied.

This report—including all content set forth herein—constitutes Pixalate “Materials” under Pixalate’s [Terms of Use](#), and is licensed subject to—and conditioned expressly upon—compliance with each of the applicable terms and conditions of such Pixalate Terms of Use.

The following disclaimer applies to all materials produced by Pixalate, including this report, where third party logos or trademarks are specifically mentioned, displayed, or used as a point of reference or research concerning any insights derived by Pixalate: Roku logo(s) are trademarks of Roku, Inc., the Amazon Fire TV logo(s) are trademarks of Amazon.com, Inc., the Samsung logo(s) and Samsung Smart TV logo(s) are trademarks of Samsung Electronics Co., Ltd., the Apple TV logo(s) are trademarks of Apple Inc., the Google Play logo(s) are trademarks of Google LLC, and the LG logo(s) are trademarks of LG Electronics, Inc. These companies are not affiliated with, nor do they endorse or sponsor, any products, data, content, reports, materials or services associated with Pixalate. Any other brand logos, names, or trademarks not explicitly mentioned herein – but otherwise mentioned, displayed, or used in any of Pixalate’s materials, including this report – are the property of their respective owners.

ABOUT PIXALATE

Pixalate is a global platform for privacy compliance, ad fraud prevention, and data intelligence in the digital ad supply chain. Founded in 2012, Pixalate's platform is trusted by regulators, data researchers, advertisers, publishers, ad tech platforms, and financial analysts across the Connected TV (CTV), mobile app, and website ecosystems. Pixalate is MRC-accredited for the detection and filtration of Sophisticated Invalid Traffic (SIVT).



www.pixalate.com

pixalate



info@pixalate.com



pixalate.com

Stay Connected

