DIGITAL VIDEO AD EFFECTIVENESS

YouTube, Facebook, Instagram, Twitter, Snapchat and More

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This report looks at how ad industry executives measure the effectiveness of video ad campaigns. As new platforms and devices change the landscape, and best practices must be tweaked, experts grapple with how to benchmark campaigns for maximum effectiveness. The report combines recent data with executive insights.

YouTube and Facebook are the pillars of digital video advertising, with most practitioners using both rather than choosing one or the other. If anything, the question is how to combine each of those platforms with TV, not how to play them against each other.

Twitter is another key outlet, but for many ad buyers the platform has not delivered on its promise. Snapchat remains an experimental option for most.

As buyers increasingly delve into connected TV, they’re finding that the living room is a natural conduit for the types of ads that have worked for generations on linear TV. After all, connected TV viewers are still watching on TV screens, and the experience is similar to linear TV. But perhaps more importantly, the data-mining capabilities of set-top boxes and smart TVs present tantalizing possibilities.

WHAT’S IN THIS REPORT? This report polls ad industry experts on how they measure video ad effectiveness across a range of platforms—including YouTube, Facebook, Instagram, Snapchat and Twitter—as well as on linear and connected TV.

KEY STAT: US digital video ad spending will grow at double-digit annual rates for at least the next four years, surpassing $22 billion in 2021.

CONTENTS
2 Digital Video Ad Effectiveness: YouTube, Facebook, Instagram, Twitter, Snapchat and More
3 Video Ad Effectiveness Metrics
4 How Do You Choose Between TV and Digital Video?
6 What’s Stopping Digital Video Ads from Being More Effective?
6 Cross-Platform Campaigns
7 YouTube
8 Facebook
10 Live Video Platforms
10 Instagram
11 Twitter
12 Snapchat
13 Connected TV
13 Connected TV
14 Out-Stream Video
15 eMarketer Interviews
16 Related eMarketer Reports
16 Related Links
16 Editorial and Production Contributors
VIDEO AD EFFECTIVENESS METRICS

Recent studies from key players in the world of ad tech tell quite different stories of how video ads seem to be performing, based on completion rates, viewability rates, clickthroughs and more.

Although the body of research on video ad metrics is still limited, the noisiness in the data is remarkable given how concrete some of these metrics are. Nevertheless, those who have followed the industry understand that many complicating factors are at play.

One such factor is that each company measures activity on its own platform, which is only a small sample of the broader universe. Lack of standards also has an effect. The digital video space seems to be a constant flux of formats, aspect ratios, ad lengths and determinants, such as whether ads autoplay or have to be initiated, and whether the sound should be on or off by default.

This lack of consensus, coupled with the fact that in many cases each publisher, platform and video ad measurement firm may approach video ad measurement in slightly different ways, with slightly different data sets, also make it near impossible to uncover any universal metric for success.

For example, Extreme Reach found that four key metrics it tracked during the year leading up to Q2 2017 all increased: completion rate, viewability rate, viewable completion rate and clickthrough rate. These were measured across the company’s worldwide network, with the bulk of the activity being in the US.

In addition, Moat tracked metrics that other companies did not, such as the rate at which video ads were audible and visible upon completion. “Completion quality” refers to the audible/visible rate divided by overall completion.

Drilling further down into completion rates, a May 2017 DoubleClick study roughly agreed with Extreme Reach’s. Worldwide digital video ad completion rates on its network hit 63.3% in April 2017, up from 60.5% in June 2016.

By contrast, the metrics on Moat’s platform varied significantly. Although the scope was also worldwide, impressions were served mostly in the UK and US. Furthermore, Moat segmented its data by device type—

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**Digital Video Ad Benchmarks Worldwide: CTR, Completion and Viewability Rates, Q2 2016-Q2 2017 among impressions served by Extreme Reach**

<table>
<thead>
<tr>
<th>Q2 2016</th>
<th>Q3 2016</th>
<th>Q4 2016</th>
<th>Q1 2017</th>
<th>Q2 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion rate</td>
<td>61.0%</td>
<td>67.0%</td>
<td>65.0%</td>
<td>73.0%</td>
</tr>
<tr>
<td>Viewability rate</td>
<td>51.0%</td>
<td>55.0%</td>
<td>63.0%</td>
<td>69.0%</td>
</tr>
<tr>
<td>Viewable completion rate</td>
<td>50.0%</td>
<td>60.0%</td>
<td>75.0%</td>
<td>73.0%</td>
</tr>
<tr>
<td>Clickthrough rate (CTR)</td>
<td>0.30%</td>
<td>0.37%</td>
<td>0.34%</td>
<td>0.45%</td>
</tr>
</tbody>
</table>

*Note: represents activity on the Extreme Reach platform, broader industry metrics may vary*  
*Source: Extreme Reach, July 1, 2017*

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**Desktop vs. Mobile Video Ad Benchmarks Worldwide: Completion and Viewability Rates, Q2 2016-Q2 2017 among impressions served by Moat analytics**

<table>
<thead>
<tr>
<th>Desktop</th>
<th>Q2 2016</th>
<th>Q3 2016</th>
<th>Q4 2016</th>
<th>Q1 2017</th>
<th>Q2 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-second in-view rate</td>
<td>58.8%</td>
<td>57.2%</td>
<td>56.0%</td>
<td>58.5%</td>
<td>60.8%</td>
</tr>
<tr>
<td>Completion rate</td>
<td>68.4%</td>
<td>67.5%</td>
<td>62.2%</td>
<td>62.7%</td>
<td>61.4%</td>
</tr>
<tr>
<td>Audible &amp; visible on complete rate</td>
<td>20.4%</td>
<td>22.5%</td>
<td>26.1%</td>
<td>29.6%</td>
<td>29.5%</td>
</tr>
<tr>
<td>Completion quality rate</td>
<td>37.4%</td>
<td>36.5%</td>
<td>38.5%</td>
<td>42.4%</td>
<td>42.5%</td>
</tr>
</tbody>
</table>

*Note: represents activity on the Moat Analytics platform, broader industry metrics may vary*  
*Source: Moat, Aug 2017*

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That said, Moat found that completion rates decreased during the same period that they increased for Extreme Reach, and this was true on both desktop and mobile. Also, Moat’s 2-second in-view rate, which according to the definitions provided by each company correlates with Extreme Reach’s viewability rate, increased slightly on desktop but decreased considerably more on mobile.
DIGITAL VIDEO AD EFFECTIVENESS: YOUTUBE, FACEBOOK, INSTAGRAM, TWITTER, SNAPCHAT AND MORE

HOW DO YOU CHOOSE BETWEEN TV AND DIGITAL VIDEO?

US digital video advertising will grow at double-digit rates annually over the next four years, while TV advertising will remain essentially flat (except for an estimated spike in 2020, driven by the US presidential campaign and Summer Olympics in Tokyo). eMarketer's latest ad spending forecast, issued in August 2017, increased video spending and decreased TV spending compared with our previous forecasts.

### US TV* and Digital Video** Ad Spending, 2016-2021

<table>
<thead>
<tr>
<th>Year</th>
<th>TV*</th>
<th>% Change</th>
<th>% of Total Media Ad Spending</th>
<th>Digital Video**</th>
<th>% Change</th>
<th>% of Total Media Ad Spending</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>$71.29</td>
<td>3.5%</td>
<td>36.6%</td>
<td>$10.70</td>
<td>5.5%</td>
<td>5.5%</td>
</tr>
<tr>
<td>2017</td>
<td>$71.65</td>
<td>0.5%</td>
<td>34.9%</td>
<td>$13.23</td>
<td>23.7%</td>
<td>6.5%</td>
</tr>
<tr>
<td>2018</td>
<td>$71.93</td>
<td>0.4%</td>
<td>33.5%</td>
<td>$15.42</td>
<td>16.5%</td>
<td>7.2%</td>
</tr>
<tr>
<td>2019</td>
<td>$72.22</td>
<td>0.4%</td>
<td>31.9%</td>
<td>$17.56</td>
<td>13.9%</td>
<td>7.8%</td>
</tr>
<tr>
<td>2020</td>
<td>$74.03</td>
<td>2.5%</td>
<td>30.8%</td>
<td>$19.81</td>
<td>12.8%</td>
<td>8.3%</td>
</tr>
<tr>
<td>2021</td>
<td>$74.17</td>
<td>0.2%</td>
<td>29.4%</td>
<td>$22.18</td>
<td>12.0%</td>
<td>8.8%</td>
</tr>
</tbody>
</table>

Note: *includes broadcast (network, spot and syndication) and cable TV; **includes advertising that appears on desktop and laptop computers as well as mobile phones, tablets and other internet-connected devices; includes advertising that appears before, during or after digital video content in a video player.

Source: eMarketer, Aug 2017

Estimates of time spent with each medium are also trending toward video, though TV still gets the majority. In 2015, US adults watched a little more than 4 minutes of TV for every minute of video. But by 2019, it will be less than 3 minutes of TV for every minute spent on video. Much of the digital video is off limits to advertisers because it’s viewed on subscription-based platforms such as Netflix and Amazon. This is also true of premium cable TV, but to a lesser extent.

Divergent data sets like these underscore the core challenge that ad industry executives face every day: How to measure the effectiveness of video ads when so much about them—from the ads themselves to the platforms they run on to the ways they’re measured—is a moving target. The following sections get to the heart of these questions by providing platform-specific data and insights from leaders across a wide range of fields, including marketers, agencies, ad exchanges, tech companies, analytics firms and consultancies.
### Average Time Spent per Day with Video by US Adults, by Device, 2015-2019

<table>
<thead>
<tr>
<th></th>
<th>TV*</th>
<th>Digital video devices**</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>5:11</td>
<td>1:01</td>
</tr>
<tr>
<td>2016</td>
<td>5:15</td>
<td>1:10</td>
</tr>
<tr>
<td>2017</td>
<td>5:14</td>
<td>1:17</td>
</tr>
<tr>
<td>2018</td>
<td>5:14</td>
<td>1:22</td>
</tr>
<tr>
<td>2019</td>
<td>5:13</td>
<td>1:26</td>
</tr>
</tbody>
</table>

Note: ages 18+; time spent with each medium includes all time spent with that medium, regardless of multitasking; for example, 1 hour of multitasking with digital video while watching TV is counted as 1 hour for TV and 1 hour for digital video; numbers may not add up to total due to rounding; *excludes digital; **includes time spent watching digital video via game console, connected TV or over-the-top (OTT) device, as well as via desktop/laptop or mobile device; excludes time spent with video via social networks; Source: eMarketer, Sep 2017

With few exceptions, ad executives conclude that when it comes to TV and video, one isn’t necessarily more or less effective than the other, but together they can be more than the sum of their parts.

### EXPERT INSIGHTS

“More marketers are investing in both TV and digital video to reach consumers across devices. For example, TV still offers an opportunity to target a particular audience demographic with 30-second ads, while digital video offers more opportunity for not only driving brand awareness but also for immediate click-to-action and personalized ad experiences.”
—Courtney McIveen, Oath

“As far as ad effectiveness, it ultimately depends on the content and format. Niche content can better find an audience online at a cost base that makes more sense, especially as long-tail TV channels get rebooted from [cable] TV subscriptions. Sports and premium content like dramas and comedies still find larger audiences via traditional TV.”
—Belsasar Lepe, Ooyala

“Digital is more effective because it’s trackable. We’re able to see in real time if users are engaging with the brand. We know exactly what that’s worth and we can make actual decisions on it, so there are many benefits to having that digital video component.”
—Tom Alexander, PK4 Media

“One of the great things about digital is that it’s not really one-size-fits-all when you start to incorporate all the different platforms or channels that you can advertise across. But when we start to think of digital vs. traditional TV, they really complement one another.”
—Courtney Demko, SapientRazorfish

“There’s certainly value in using Facebook alongside TV and either extending reach or finding incremental reach—or even just giving it a halo effect and helping increase the frequency of a branding campaign for a couple of hundred different devices. So, we’re starting to see bridge points, and that’s really where there’s value, as opposed to trying to compare the two.”
—Jenny Carrick, MediaCom
WHAT’S STOPPING DIGITAL VIDEO ADS FROM BEING MORE EFFECTIVE?

Despite digital video advertising’s bright growth, industry executives continue to point to a host of challenges and obstacles. These include brand safety and metrics, most prominently on YouTube and Facebook. But even beyond those high-profile incidents, other barriers remain.

EXPERT INSIGHTS

“The obstacles have traditionally been around targeting and measurement. ... We’re making such progress in being able to effectively target audiences across platforms and measure the results of the effectiveness of those integrations in ways that advertisers have been expecting of digital platforms.”
—Aaron Frank, Branded Entertainment Network

“Being able to actively follow a user and understand what they’re doing and really get the best video ad is something that we’ve seen companies really address from the display side, and I think mobile video especially is lagging behind where the display market is. That’s changing, and [next year] I think we’re going to continue to see a lot of improvement over 2017.”
—Justin Festa, LittleThings

“Many advertisers cite a lack of premium video inventory as a barrier to entry. As the industry defines effective standards for viewability and additional measurement, advertisers are navigating this ecosystem and production costs when investing in high-quality digital video advertising.”
—Courtney McKlveen, Oath

CROSS-PLATFORM CAMPAIGNS

An April 2017 survey of US agency and marketing professionals by Advertiser Perceptions for the Interactive Advertising Bureau (IAB) found that a majority of respondents planned to increase their cross-platform spending, defined as campaigns that straddle TV and digital video. Agency professionals were more bullish on cross-platform buys than their marketer counterparts, but on average, 59% of those polled said they would spend more on those campaigns, compared with 40% who said they would maintain current levels. Only 1% said they’d decrease cross-platform spending.

<table>
<thead>
<tr>
<th>Expected Change in Cross-Platform TV/Video Spending According to US Agency vs. Marketing Professionals, April 2017</th>
<th>% of total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency professionals</td>
<td>67%</td>
</tr>
<tr>
<td>Marketing professionals</td>
<td>53%</td>
</tr>
<tr>
<td>Total</td>
<td>59%</td>
</tr>
</tbody>
</table>

This means that demand for delivering a campaign simultaneously across TV and digital video devices has become quite common. That said, executives interviewed for this report were all over the map when it came to the ways they assessed the success of ad campaigns that straddle platforms.

EXPERT INSIGHTS

“Almost all digital video platforms now offer capabilities in viewing metrics like time spent and completion rate, attitudinal metrics like purchase intent and awareness, and even back-end engagement metrics like conversions or on-site video views. However, the measurement thread gets much sparser when linear TV is brought into the mix. Despite the many advancements in data and measurement in recent years, true cross-screen measurement continues to be an elusive concept for most marketers.”
—Jenny Schauer, DigitasLBi
“In the digital world, one thing folks look at as a measure of success is completion rate. Did they watch the ad to completion? A second is viewability. Did someone see the ad? Another one, especially as connected television becomes a more prevalent piece of the ecosystem, is GRP [gross ratings point]. Part of the reason GRP is important is that that’s a currency that television is used to, so that will become more and more of a factor as connected television becomes a bigger part of the overall media mix transacted programmatically.”
— Tim Sims, The Trade Desk

“With video, it’s still largely an awareness tactic, in our view. Completed views are still the strongest KPI [key performance indicator]. And after completed views, we look at view rate to inform us on audience engagement within the content. Unfortunately, the measurement stick across all platforms is not equal:”
— Leah Woolford, USDM Holdings

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— Leah Woolford, USDM Holdings

In September 2017, eMarketer raised its estimates for YouTube ad revenues based on parent company Google’s better-than-expected performance in the first half of the year, and video’s role in driving that success.

eMarketer now expects YouTube’s net US ad video revenues to reach $3.57 billion in 2019, up from $2.87 billion in 2017. (The new figure for 2019 represents a nearly 13% increase over the original projection of $3.16 billion.)

<table>
<thead>
<tr>
<th>Year</th>
<th>Billions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>$2.16</td>
</tr>
<tr>
<td>2017</td>
<td>$2.87</td>
</tr>
<tr>
<td>2018</td>
<td>$3.23</td>
</tr>
<tr>
<td>2019</td>
<td>$3.57</td>
</tr>
</tbody>
</table>

Note: Net ad revenues after company pays traffic acquisition costs (TAC) and content acquisition costs (CAC) to partner sites
Source: eMarketer, Sep 2017

YouTube pioneered skippable pre-rolls several years ago and is again disrupting the ad industry with 6-second ads (which are so short they are essentially unskippable). In a presentation at the dmexco digital marketing conference in September 2017, YouTube chief business officer Robert Kyncl said YouTube saw a 70% increase in the number of advertisers that ran 6-second ads on the platform in Q2 2017 over the previous quarter. He added that one-third of YouTube advertisers now use the 6-second format. The trend is playing out across traditional TV as well, with Fox, Viacom, Turner and other networks now airing 6-second spots on their linear channels, according to media reports.

Agency executives interviewed for this report highlighted metrics such as views, completion rate and clickthrough rate, but they largely emphasized YouTube’s strength as a branding channel.
EXPERT INSIGHTS

“We will look at metrics such as video views, clickthrough rates and time in session, but we are ultimately trying to shift the dial on the brand sell, so whether that be ad recall or favorability or intent to purchase, that’s what we’re trying to create.”
—Jenny Carrick, MediaCom

“While we look at video views and clickthroughs, we’ll also look at measuring brand lift and ad recall, so oftentimes we’ll utilize Google Consumer Surveys for those. That’s been a great tool for us to measure the impact of some of the videos that we flight across YouTube.”
—Courtney Demko, SapientRazorfish

“At the end of the day, YouTube is simply another avenue for marketers to intercept their consumers, and we feel it’s increasingly important to hold the platform to consistent standards as [we do with] other digital video sources.”
—Jenny Schauer, DigitasLBi

FACEBOOK

If YouTube is one of the pillars of digital video advertising, Facebook is the other. The social platform is well along the path of transforming itself into a video-first service, as CEO Mark Zuckerberg signaled in the company’s Q2 2016 earnings release.

To date, Facebook’s video ad efforts have focused primarily on paid in-feed units, sometimes supplemented by organic marketing on brand pages. However, as the platform moves further into mid-length and long-form content, in-stream mid-roll clips will become increasingly important to its strategy.

An April 2017 survey of US video marketers by Animoto found that Facebook was the most common social media platform used by respondents to post videos as part of their marketing strategy. Leaving aside the argument of whether YouTube qualifies as a social media platform, the study showed that it ranked second to Facebook.

| Social Media Platforms Used by US Video Marketers to Post Videos, April 2017 |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                 | % of respondents                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| Facebook                        | 87%                             |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| YouTube                         | 78%                             |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| Twitter                         | 51%                             |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| Instagram                       | 51%                             |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| Snapchat                        | 37%                             |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| Pinterest                       | 26%                             |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
| LinkedIn                        | 14%                             |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |

Note: as part of their marketing strategy

Facebook also led the Animoto study from the perspective of US internet users who watched and, perhaps more importantly, engaged with branded videos on various platforms. (Facebook had the highest score when it came to US marketers’ confidence in the ability of each platform to drive purchases, according to the study.)
US Internet Users Who Watch vs. Engage with Branded Videos Daily, by Social Media Platform, April 2017

<table>
<thead>
<tr>
<th>Platform</th>
<th>Watch</th>
<th>Engage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facebook</td>
<td>60%</td>
<td>49%</td>
</tr>
<tr>
<td>Instagram Stories</td>
<td>59%</td>
<td></td>
</tr>
<tr>
<td>Snapchat</td>
<td>58%</td>
<td>22%</td>
</tr>
<tr>
<td>YouTube</td>
<td>55%</td>
<td>32%</td>
</tr>
<tr>
<td>Instagram</td>
<td>49%</td>
<td>24%</td>
</tr>
<tr>
<td>Twitter</td>
<td>41%</td>
<td>22%</td>
</tr>
</tbody>
</table>

Note: ages 18+

A study by BuzzSumo tracked engagement on Facebook posts by brands and publishers worldwide from July 2016 through June 2017 and noted that overall engagement was down about 20% in that timeframe. However, that decline was mainly due to lower engagement for image- and text-based posts. Video posts, on the other hand, declined only slightly and remained far higher than the other types when it came to the engagement they drove. BuzzSumo attributed the overall drop in engagement to a decline in organic reach on Facebook.

Average Engagement on Facebook Posts by Brands/Publishers Worldwide, by Content Type, July 2016-June 2017

<table>
<thead>
<tr>
<th>Month</th>
<th>Videos</th>
<th>Images</th>
<th>Links</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2016</td>
<td>580</td>
<td>488</td>
<td>191</td>
<td>340</td>
</tr>
<tr>
<td>Aug 2016</td>
<td>604</td>
<td>488</td>
<td>207</td>
<td>347</td>
</tr>
<tr>
<td>Sep 2016</td>
<td>608</td>
<td>454</td>
<td>192</td>
<td>327</td>
</tr>
<tr>
<td>Oct 2016</td>
<td>585</td>
<td>445</td>
<td>195</td>
<td>324</td>
</tr>
<tr>
<td>Nov 2016</td>
<td>627</td>
<td>432</td>
<td>202</td>
<td>325</td>
</tr>
<tr>
<td>Dec 2016</td>
<td>616</td>
<td>454</td>
<td>201</td>
<td>334</td>
</tr>
<tr>
<td>Jan 2017</td>
<td>636</td>
<td>480</td>
<td>214</td>
<td>346</td>
</tr>
<tr>
<td>Feb 2017</td>
<td>568</td>
<td>419</td>
<td>204</td>
<td>312</td>
</tr>
<tr>
<td>March 2017</td>
<td>564</td>
<td>352</td>
<td>182</td>
<td>277</td>
</tr>
<tr>
<td>April 2017</td>
<td>557</td>
<td>335</td>
<td>177</td>
<td>269</td>
</tr>
<tr>
<td>May 2017</td>
<td>525</td>
<td>310</td>
<td>161</td>
<td>250</td>
</tr>
<tr>
<td>June 2017</td>
<td>560</td>
<td>325</td>
<td>168</td>
<td>264</td>
</tr>
</tbody>
</table>

Note: includes comments, “likes” and shares
Source: BuzzSumo as cited in company blog, Aug 29, 2017

EXPERT INSIGHTS

“If we’re seeing that the majority of videos are being watched without sound, we are actually creating videos that incorporate text or have subtitles.”
—Courtney Silverstein, Mizuho Americas

“When you’re looking at attribution models with omnichannel, we partner with Facebook in order to use that last-user touchpoint. We could actually take a user who’s seen our ad campaign [on Facebook] and create a run in one of those first four pods before a movie showing, and then retarget them when they watch a show on Hulu.”
—Tom Alexander, PK4 Media
LIVE VIDEO PLATFORMS

Effectiveness metrics on live video platforms are a work in progress given the newness of the format; the uncertainty stems from the unpredictability of advertising against live content and the lack of standards when it comes to the various kinds of ads and content.

Nevertheless, the number of views, number of concurrent views and engagement stats measuring how viewers are responding to the stream are among the metrics being tracked, some of them in real time.

A June 2017 survey of US live streaming video viewers by Magid found that Facebook barely edged out YouTube as the top platform used. Facebook’s Instagram was a distant third, followed by Twitter and Snapchat.

Platforms Used by US Live Streaming Video Viewers to Watch Live Streaming Video, June 2017

<table>
<thead>
<tr>
<th>Platform</th>
<th>% of respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facebook Live</td>
<td>45%</td>
</tr>
<tr>
<td>YouTube Live</td>
<td>44%</td>
</tr>
<tr>
<td>Instagram</td>
<td>28%</td>
</tr>
<tr>
<td>Twitter</td>
<td>19%</td>
</tr>
<tr>
<td>Snapchat</td>
<td>17%</td>
</tr>
<tr>
<td>Twitch</td>
<td>12%</td>
</tr>
<tr>
<td>Livestream</td>
<td>10%</td>
</tr>
<tr>
<td>Periscope</td>
<td>9%</td>
</tr>
<tr>
<td>YouNow</td>
<td>6%</td>
</tr>
<tr>
<td>Ustream</td>
<td>4%</td>
</tr>
</tbody>
</table>

Note: n=1,422 ages 8-64; via any device

INSTAGRAM

eMarketer raised its estimates for Instagram ad revenues in September 2017 based on Facebook’s total business growth and particularly its success in mobile advertising.

US ad revenues on the platform will reach $6.84 billion in 2019, more than double the 2017 total of $3.08 billion. In non-US territories, growth will be even more robust, nearly quadrupling to $4.02 billion in 2019 from $1.03 billion in 2017.

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>US ad revenues (billion)</td>
<td>$1.61</td>
<td>$3.08</td>
<td>$5.40</td>
<td>$6.84</td>
</tr>
<tr>
<td>—% of worldwide total</td>
<td>85%</td>
<td>75%</td>
<td>68%</td>
<td>63%</td>
</tr>
<tr>
<td>Non-US ad revenues (billion)</td>
<td>$0.28</td>
<td>$1.03</td>
<td>$2.54</td>
<td>$4.02</td>
</tr>
<tr>
<td>—% of worldwide total</td>
<td>15%</td>
<td>25%</td>
<td>32%</td>
<td>37%</td>
</tr>
<tr>
<td>Worldwide ad revenues (billion)</td>
<td>$1.90</td>
<td>$4.10</td>
<td>$7.94</td>
<td>$10.87</td>
</tr>
</tbody>
</table>

Note: paid advertising only; excludes spending by marketers that goes toward developing or maintaining an Instagram presence
Source: eMarketer, Sep 2017

According to a NewsWhip study, most leading news and media publishers worldwide increased the number of videos they posted on Instagram for the 12 months ended in May 2017. Some of that growth, as with Bleacher Report, BBC News and Fox News, was incremental, but other publications—including Time, Sports Illustrated and People Magazine—sharply increased the number of clips they posted. Disney’s ESPN was another property that went much deeper into Instagram video in 2017 than the year before.

EXPERT INSIGHTS

“For live video we look at how many people are watching at a given time, how many concurrents do we have, and then how many comments and what types of reactions we’re getting while we’re live. We also look at how many people will end up viewing that content [after the clip is archived], and again, interaction shares, that type of thing. But for live you get the added component of seeing the reactions of viewers in real time. When do those numbers spike? When do they go down? What are people interested in?”
—Justin Festa, LittleThings
Leading News & Media Publishers on Instagram Worldwide, Ranked by Number of Videos Posted, May 2016 & May 2017

<table>
<thead>
<tr>
<th></th>
<th>May 2016</th>
<th>May 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bleacher Report</td>
<td>432</td>
<td>479</td>
</tr>
<tr>
<td>Sports Illustrated</td>
<td>8</td>
<td>325</td>
</tr>
<tr>
<td>ESPN</td>
<td>101</td>
<td>249</td>
</tr>
<tr>
<td>BBC News</td>
<td>140</td>
<td>154</td>
</tr>
<tr>
<td>Complex</td>
<td>121</td>
<td>148</td>
</tr>
<tr>
<td>People Magazine</td>
<td>13</td>
<td>122</td>
</tr>
<tr>
<td>Fox News</td>
<td>101</td>
<td>119</td>
</tr>
<tr>
<td>Thrasher Magazine</td>
<td>103</td>
<td>100</td>
</tr>
<tr>
<td>Time</td>
<td>7</td>
<td>68</td>
</tr>
<tr>
<td>Inked Magazine</td>
<td>33</td>
<td>63</td>
</tr>
</tbody>
</table>

Note: English-language content only

Executives underscored Instagram’s integration with parent company Facebook as well as its growing effectiveness as a direct-response channel.

EXPERT INSIGHTS

“If there’s a retail component to the campaign, having users [be able to] click and purchase is very useful. It’s still within the Instagram UI, but it will drive to that brand’s site, [where] the user can purchase.”
—Tom Alexander, PK4 Media

“Instagram is similar to Facebook. We look at overall engagement and clickthrough rate. It’s also connected to Facebook Ads manager, meaning the same key metric used for Facebook videos can be applied to Instagram.”
—Leah Woolford, USDM Holdings

TWITTER

Although Twitter showed better-than-expected user growth in 1H 2017, its ad revenue outlook is mixed. eMarketer’s latest forecast, published in September 2017, projects a slight increase in Twitter’s worldwide ad revenues, climbing to $2.12 billion in 2019 from $2.07 billion in 2017.


<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>$1.36</td>
<td>$1.21</td>
<td>$1.16</td>
<td>$1.16</td>
</tr>
<tr>
<td>—% of worldwide total</td>
<td>60.5%</td>
<td>58.7%</td>
<td>56.9%</td>
<td>54.5%</td>
</tr>
<tr>
<td>Non-US</td>
<td>$0.89</td>
<td>$0.85</td>
<td>$0.88</td>
<td>$0.97</td>
</tr>
<tr>
<td>—% of worldwide total</td>
<td>39.5%</td>
<td>41.3%</td>
<td>43.1%</td>
<td>45.5%</td>
</tr>
<tr>
<td>Worldwide</td>
<td>$2.25</td>
<td>$2.07</td>
<td>$2.04</td>
<td>$2.12</td>
</tr>
</tbody>
</table>

Note: paid advertising only; excludes spending by marketers that goes toward developing or maintaining a Twitter presence; net ad revenues after company pays traffic acquisition costs (TAC) to partner sites; includes ad spending on tablets; excludes SMS, MMS and P2P messaging-based advertising; numbers may not add up to total due to rounding
Source: eMarketer, Sep 2017

However, there are caveats to this data:

- Twitter’s ad revenue growth will be minuscule, and it will come exclusively from outside the US—which remains its core market, at over 50% of total ad revenues. During the forecast period, Twitter’s US business will trend downward.

- If one looks at the data going back to 2016, growth will be negative both in the US and worldwide. This is the first time since eMarketer started tracking Twitter that we are projecting a decline in its ad business for any given forecast period.

Those aren’t the only worrisome stats for Twitter. An RBC Capital Markets study comparing usage in November 2016 and May 2017 found that the percentage of US Twitter users who “rarely or never” viewed videos on the platform actually increased, rising from 42% to 51%. And among those who did watch, the percentage of respondents who viewed video clips weekly or several times per month dipped by 3 percentage points during that span.
Frequency with Which US Twitter Users View Videos on Twitter, Nov 2016 & May 2017
% of respondents

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Nov 2016</th>
<th>May 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>11%</td>
<td>11%</td>
</tr>
<tr>
<td>Weekly</td>
<td>13%</td>
<td>10%</td>
</tr>
<tr>
<td>Several times per month</td>
<td>13%</td>
<td>10%</td>
</tr>
<tr>
<td>About once per month</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Less than once per month</td>
<td>11%</td>
<td>10%</td>
</tr>
<tr>
<td>Rarely to never</td>
<td>42%</td>
<td>51%</td>
</tr>
</tbody>
</table>

Note: Nov 2016 n=834; May 2017 n=743; ages 13+; in the past 12 months; numbers may not add up to 100% due to rounding.
“Snapchat is uncharted territory. Given its dimensions and its vertical nature, as well as the short, ephemeral experience that makes it famous, it’s something we’re not quite sure what to make of in terms of the style, the content and how to drive it from a marketer’s standpoint.”
—Adam Corey, Tealium

“While the delivery of Snap Ads is different from the feed environment of other social partners, we attempt to level the playing field by analyzing with consistent metrics—that being video view rate. What we’re quickly learning is that it’s not sufficient to just place a video as mid- or post-roll and expect that users will stick around, but rather we must provide content that is truly endemic to the Snapchat platform.”
—Jenny Schauer, DigitasLBi

Ad industry executives are increasingly taking note of this segment because of its vast size, its growth prospects and its ability to bridge the gap to some degree between traditional TV and digital video advertising models. For the time being, advertisers see connected TV as an extension of linear TV, but the holy grail is to correlate it to digital and offline conversions.

“With connected television ads, it’s still difficult to trace a path back to digital conversion and offline conversion. Those are things we’re super focused on and are huge opportunities for those of us in the digital ecosystem to stitch all that together.”
—Tim Sims, The Trade Desk
“On connected TV, people are leaning back and, if anything, they are skipping ads. The types of metrics I should be watching for marketers are whether people are engaging with the ad, or choosing not to skip if a skip option is presented. Those types of metrics are really what matters in the living room.”
—Adam Corey, Tealium

OUT-STREAM VIDEO

eMarketer defines out-stream video as a form of digital advertising in which video units are served in nonvideo environments—within text articles, social media feeds and video games, for example. This definition is based on the IAB’s “2016 Video Advertising Glossary,” which categorizes the following ad types as out-stream: in-banner video, in-article video, native video, in-feed video and interstitial video.

The term “out-stream” is designed to distinguish this category of ads from video units running within a video stream (“in-stream”), such as pre-rolls, mid-rolls and post-rolls. One of the hallmarks of out-stream ads is that they typically play only when at least half the ad is in view: If the user scrolls past the unit to where less than 50% is viewable, the ad stops playing. For that reason, the units typically score well when it comes to viewability.

Most executives interviewed for this report had little or no involvement with out-stream ads, but a few weighed in on how they measure effectiveness in this format.

EXPERT INSIGHTS

“It’s much harder to get a completed view in the out-stream environment since there is not a real incentive for a consumer to finish the video—[unlike in-stream ads,] it’s not gating them from content they’re actively seeking. On the flip side, however, that also indicates that every second viewed is perhaps more valuable to the brand, since any time a consumer spends with the content is out of pure interest. Unfortunately, the industry hasn’t yet cracked the code between the value of in-stream completed views vs. out-stream partial views, so the best path in the interim is to evaluate the two tactics side by side to look for trends in engagement, attitudinal lifts, etc., and formulate some educated hypotheses about the effectiveness of out-stream.”
—Jenny Schauer, DigitasLBi

“Effectiveness is viewed through the same lens [as in-stream ads]. You’re gonna look at things like completion rate and viewability, but viewability metrics tend to be quite good on out-stream because typically the ad doesn’t load until the vast section of the page is in view.”
—Tim Sims, The Trade Desk
EMARKETER INTERVIEWS

Why Different Video Ad Channels Require Different Success Metrics

Tom Alexander
Founder and CEO
PK4 Media
Interview conducted on July 26, 2017

Jenny Carrick
Head of Paid Social
MediaCom
Interview conducted on September 15, 2017

Adam Corey
Vice President, Marketing
Tealium
Interview conducted on September 14, 2017

Courtney Demko
Media Director
SapientRazorfish
Interview conducted on September 14, 2017

Vince Errico
Chief Digital Officer
Trusted Media Brands
Interview conducted on August 29, 2017

Justin Festa
Chief Digital Officer
LittleThings
Interview conducted on July 25, 2017

Aaron Frank
Vice President, Strategy and Insights
Branded Entertainment Network
Interview conducted on August 4, 2017

Mani Gandham
Co-Founder and CEO
Instinctive
Interview conducted on September 1, 2017

Jordan Hoffner
CEO
Salon Media Group
Interview conducted on September 18, 2017

Bradley LaMendola
Vice President, Director, Paid Social
DigitasLBi
Interview conducted on September 19, 2017

Belsasar Lepe
Founder and Senior Vice President, Products and Solutions
Ooyala
Interview conducted on August 9, 2017

Courtney McKlveen
Head of US Field Sales
Oath
Interview conducted on August 16, 2017

Michael Milligan
Senior Director, Product and Solution Marketing
Limelight Networks
Interview conducted on August 23, 2017

Jenny Schauer
Vice President and Director, Media
DigitasLBi
Interview conducted on August 4, 2017

Courtney Silverstein
Vice President, Content Strategy and Social Media
Mizuho Americas
Interview conducted on August 4, 2017

Tim Sims
Senior Vice President, Inventory Partnerships
The Trade Desk
Interview conducted on August 9, 2017

Rebecca Steinberg Herson
Vice President, Marketing
Anodot
Interview conducted on July 27, 2017

Leah Woolford
Founder and CEO
USDM Holdings
Interview conducted on August 10, 2017
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