

### Mobile App Trends Report

A GROWING MOBILE ECONOMY

2019





### **Contents Page**

1	App Economy	6
2	User Acquisition Trends	21
3	User Retention	27
4	Platform	37
5	Geographical Analysis	40
6	Seasonal Trends	52
7	Challenges	58



### Introduction

The global App Economy is firing on all cylinders, and more countries than ever offer marketers value for money.

- Consumers are expected to spend an incredible \$120 billion in app stores in 2019, 5x the growth rate
  of the global economy. (App Annie)
- The mix of top mobile countries is shifting (measured in app downloads) with India leading the pack, followed by the U.S., Brazil and Russia. (Sensor Tower)
- Indonesia, Southeast Asia's largest economy, is the fastest-growing country for app marketers, followed by Brazil, Korea, Malaysia, and Turkey. (<u>Adjust</u>)

Mobile and apps have cemented their lead position as the global "go-to" for commerce, content, communication—and more. Indeed, 2018 wasn't just the biggest year for mobile yet. It was the year that time spent on mobile shot into the stratosphere. Overall, audiences consume media on their devices for roughly 10 minutes out of every hour.



The seismic shift in app market dynamics demands an audience-first approach. This report breaks new ground, combining app market intelligence and Liftoff internal data to provide marketers a holistic view of the trends and metrics impacting user acquisition, engagement and retention across a variety of app categories (Dating, Finance, Gaming, Shopping and Utility) and regions (APAC, EMEA, LATAM and North America). Finally, this report draws from a survey of app marketing experts to provide a fresh perspective on key opportunities (programmatic) and challenges (mobile ad fraud) shaping the global app marketplace.

A report of this breadth and depth requires collaboration with companies across the app and customer lifecycle. We want to thank our partners for contributing their data and insights, ensuring your app remains at the center of the customer experience.









### Methodology

**Date Range:** Sep 1 2018 - Aug 31 2019













992

349

**5.35** 

**128** 

21.4

**76.6** 

Apps Included

Impressions (B)

Clicks (B) Installs (MM) First Time Events (MM)

Total Post-Install Events (MM)



## **App Economy**

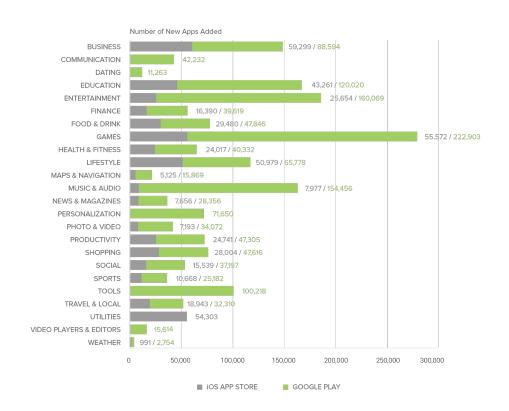
More apps chase more users — and iOS makes more money.



#### New Apps Added by App Category

# Android dominates with an avalanche of new app uploads.

- At 1.45 million, the total number of new Android apps outnumbers iOS apps (489K) by a ratio of nearly 3:1.
- Google Play is a magnet for new games, outnumbering iOS by a ratio of 4:1.

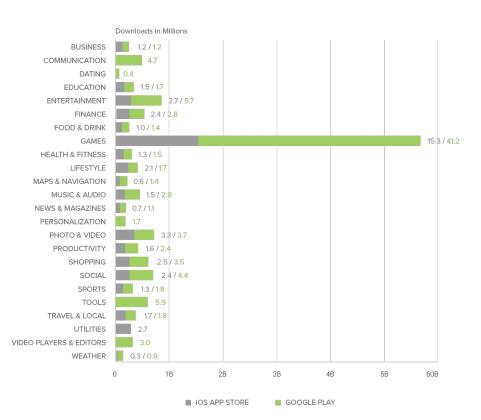




# App download numbers show iOS is a strong contender to Android.

- At 143 billion, the total number of apps downloaded outpaces the number of new apps uploaded (1.45 million). Moreover, Android's lead over iOS shrinks to a ratio of nearly 2:1.
- Gaming apps lead the pack measured by the number of total downloads, a dynamic that also benefits iOS. The near even split in downloads across Finance, Health & Fitness, Travel and Sports suggest these are attractive app categories with universal appeal.

#### Downloads by App Category

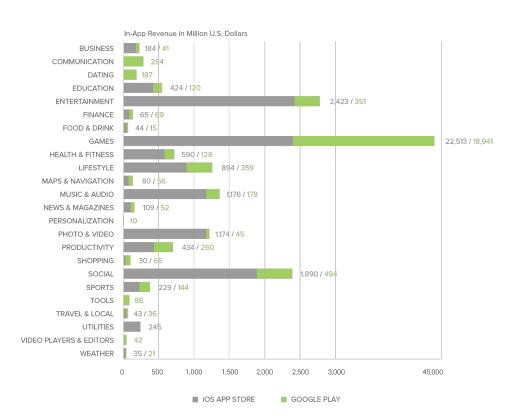




### Android downloads move the needle, but iOS continues to be a massive money-maker.

- Android may have significant mindshare, but iOS has a much larger share of wallet. iOS apps account for 1.5x the amount of revenue (\$32.6 billion) compared to Android (\$22 billion).
- From Gaming & Music Streaming to
   Entertainment & Social, the top-grossing app categories are synonymous with leisure time and pastimes. It's no coincidence that these categories are also where iOS accounts for the lion's share of revenues.

#### In-App Revenue by App Category



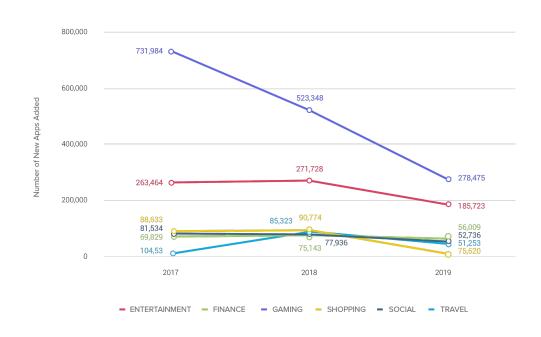


# Non-gaming apps are positioned to power the next wave of App Economy growth, and betting on fewer apps to do it.

A massive drop in the number of **Gaming** apps (down 47% YoY) and **Entertainment** (down 32% YoY) suggests grabbing a greater share of audience attention is an uphill battle.

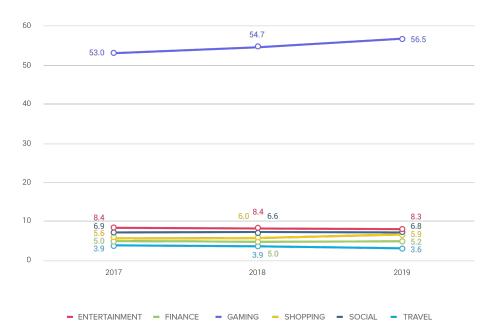
Across non-gaming categories, new app uploads are stalled at a lower level, but the decline is greater, signifying less competition, consolidation of services, or both. **Travel** leads the pack, (down 40%) followed by **Social** (-32.3%), **Finance** (-25.5%) and **Shopping** (-16.7%).

#### New Apps Added by App Category YoY





#### Downloads by App Category YoY



# Growth isn't easy in a market where downloads have already hit record heights.

App downloads totaled 86.3 billion in 2019, up from 84.6 billion. **Gaming** apps growth (up 3.3%) has slowed, similar to **Entertainment** and **Travel** apps. Meanwhile, **Shopping** apps dropped by 1.7% from 6.0 billion to to 5.9 billion.

At 6.8 billion downloads, the number of **Social** apps increased 3.0% over the previous year, while downloads of **Finance** apps increased 4% to 5.2 billion.

Number of App Downloads in Billions



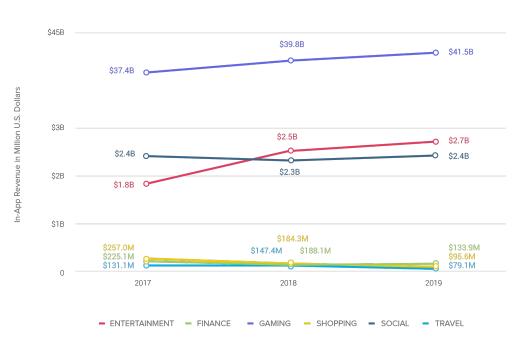
### Gaming, Entertainment and Social apps are raking in significant (and growing) revenues.

**Gaming** app revenue grew 4.27% to reach \$41.5 billion up from \$39.8 fuelled by ad-supported models that monetize audience attention.

Notably, **Entertainment** and **Social** also chalked up big wins.

Meanwhile, some app categories are showing revenue fatigue. **Shopping** apps revenue decreased 48% (to \$95.6 million). **Travel** follows a similar trajectory, down 46.3% (\$79.1 million). Finally, **Finance** comes in at \$133.9 million, down 28.8% from the previous year.

#### In-App Revenue by App Category YoY

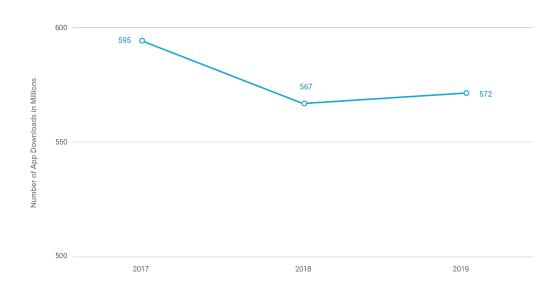




### A decade on and the Sharing Economy is going strong.

- Sharing economy app downloads got off to a strong start in 2017, but then dipped slightly (down 4.7%) to reach 567 million in 2018.
- Downloads in 2019 are back on track, reaching 572 million (up 0.9% from the previous year).

#### Sharing Economy App Downloads YoY

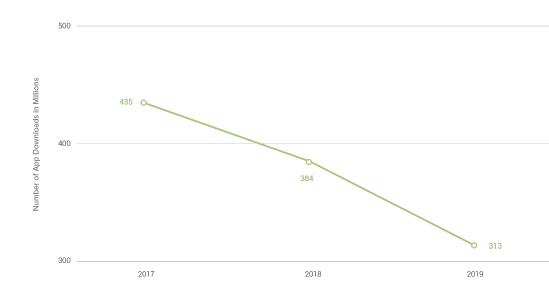




### Ride sharing app downloads plummet, putting pressure on marketers to emphasize the value-add.

- Ride sharing app downloads are sluggish, a negative development that pushes marketers to do more to stand out from the competition.
- Downloads have dropped 28% since 2017 (when downloads totaled 435 million) to reach 313 million in 2019.

### Ride Sharing App Downloads YoY



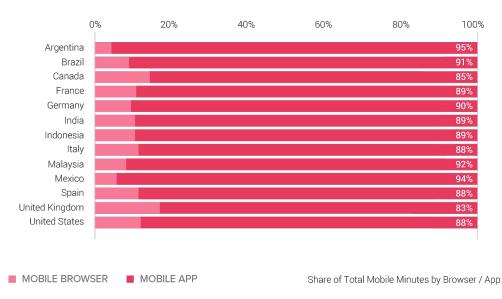


### Globally, mobile apps account for 80% of all time spent in mobile—with no signs of stopping.

Data from audience measurement company comScore declares the smartphone the "dominant platform" measured in total minutes.

comScore also reports mobile apps now account for over 80% of *all* mobile time across all markets surveyed, making them the primary way consumers across 13 markets interact and transact daily.

#### Apps Account for Over 80% of Mobile Time



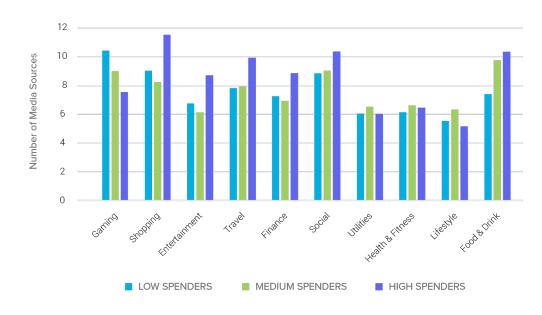
Source: comscore Mobile Metrix, Dec 2017



### Determined to capture and convert bigger audiences—marketers are enlisting the help of more media partners.

Spend and network usage are highly correlated, according to data from AppsFlyer. While smaller advertisers are apt to focus budget on Facebook and Google, this shifts as campaigns meet and exceed growth targets. High-spenders run with nearly 25% more media partners to drive the needed scale.

#### Average Number of Media Sources



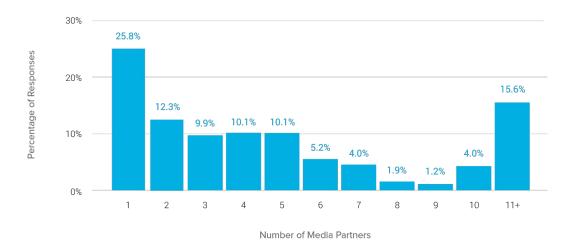




### Marketers are moving outside their comfort zone to work with more media partners, Liftoff survey results show.

App marketers are naturally eager to address new audiences, but are split roughly 70-30 on whether to stay with a handful of partners or experiment and optimize with 6+ media partners. Significantly, the percentage of respondents (25.8%) sticking with just one partner is comparable to the percentage of marketers (15.6%) engaging with 11+ partners.

#### Number of Media Media Partners Marketers Work With



Source: A LIFTOFF survey of 300+ mobile app marketers, September 2019

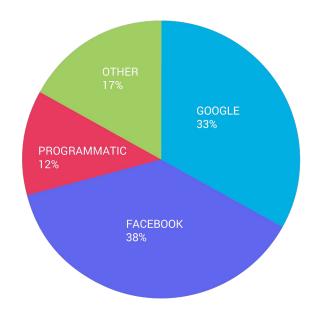


### Facebook and Google rule the roost, but programmatic is making a strong showing.

Global Ad Trends data from Warc crowns 2019 as the first year that advertisers spent more on digital than traditional media, and the first time that Google and Facebook's share of digital ad spending is set to decline. While Warc estimates one in four dollars (or \$144.6 billion) went to the "Duopoly," other platforms and social networks (such as Twitter, Reddit and Amazon) continue to chip away at Google and Facebook's market share.

Liftoff's survey pegs Google and Facebook at the top of the scale (combined spend 71%). Other channels account for 17%, followed by programmatic (12%). Together they account for nearly one-third (29%), a share of spend (see U.S spend trends from eMarketer) that is forecast to grow as more marketers diversify channels and build media plans on an audience-first strategy vs a channel buy.

Mobile Acquisition Marketing Spend by Top Channels





### The "programmatic boom" is closer than you think as mobile takes the lead.

Global mobile ad spend is on course to reach \$153.2 billion this year (compared to \$138 billion in 2018), buoyed by a <u>programmatic "boom"</u>, according to Warc's latest Global Ad Trends report.

The U.S. continues to set the pace, a major trend that research firm eMarketer puts into perspective.

Mobile programmatic display ad spend (nearly \$40 billion) accounts for 86.8% of total mobile display ad spend. While it may appear that the penetration of programmatic advertising in mobile display is plateauing, mobile programmatic in the in-app space are expected to see significant growth.

US Mobile Programmatic Display Ad Spending



— % CHANGE

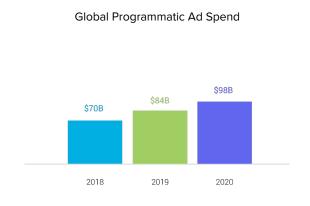
MOBILE PROGRAMMATIC DISPLAY AD SPENDING

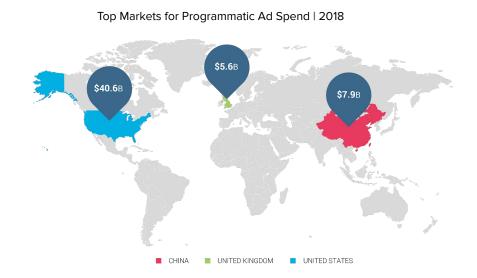
Billions, % change and % of total mobile display ad spending



### 65% of all money spent on advertising in digital media in 2019 will be programmatic.

The U.S. leads in programmatic spend and growth, according to <u>Zenith's Programmatic Marketing Forecasts</u>. It pegs spend at \$40.6 billion in 2018–58% of the total. China is in a distant second place (\$7.9 billion), followed by the U.K. (\$5.6 billion).



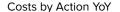


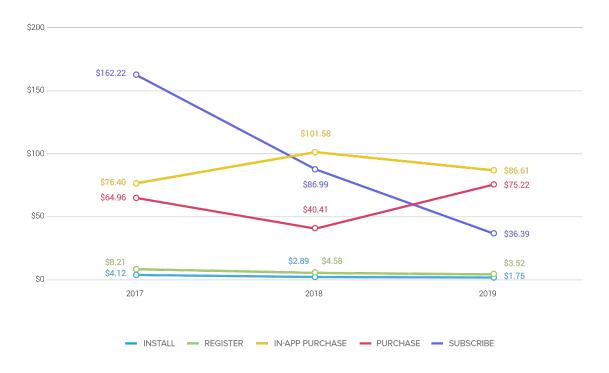


## User Acquisition Trends

Gaming app users offer value for money—conversions soar in Finance and Shopping.





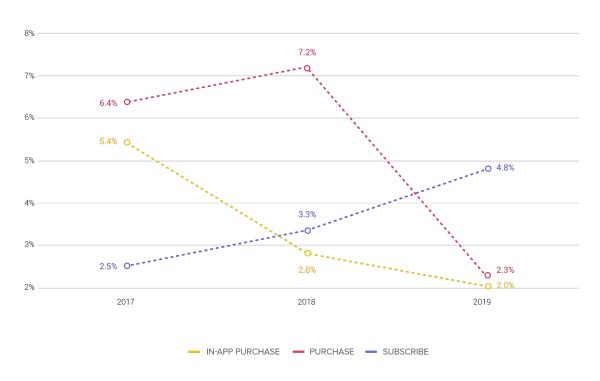


The price tag for most engagement activities is attractive, and subscription costs are down by 58.2%.



#### Engagement Rates by Action YoY

Users buy into subscriptions, but purchases are harder to convert.

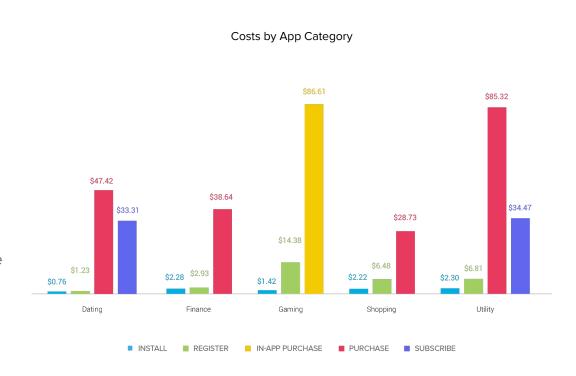




### Commitment comes at a cost-across all app categories.

**Purchase** is the prize, but it's also the most expensive engagement activity across all app categories. While **In-app Purchase** is marginally more expensive, it's also not the only way **Gaming** apps can make money. The advance of ad-supported models and rewarded video provide smart marketers lucrative alternatives.

**Gaming** and **Utility** apps lead the pack in price for deep-funnel conversions, with an average of 199.2% over the cost to generate a **Shopping** app purchase, and 122.5% over the cost to generate a **Finance** app conversion.



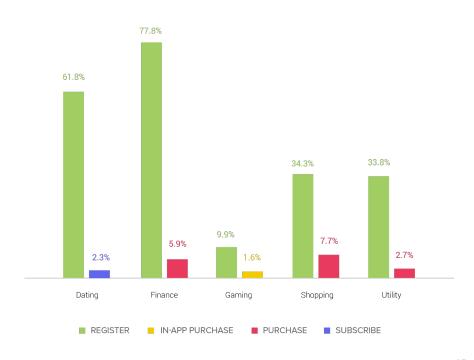


### Cheap to acquire and easy to activate: E-commerce and Finance apps are the crowd-pleasers.

**Registration** is a walk in the park for all app categories. So why aren't marketers getting more mileage out of their audiences? Clearly, marketers have mastered what it takes to drive middle-funnel activity, but they are failing to trigger purchases. In the case of **Shopping** apps nearly 27% of users register but don't purchase.

While the cost for a first **Purchase** may be pricey, the engagement rates—7.7% for **Shopping** and 5.9% for **Finance**—are the highest.

#### Engagement Rates by App Category

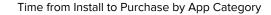




### High-intent app categories are converting at top speeds.

There is a strong correlation between need and speed. **Finance**, an app category users generally download with a strong sense of purpose (pay a bill, check a credit score, make an investment) is the the fast-mover in the group. It takes only 1 hour 10 minutes for users to take the plunge and make a purchase.

**Dating** comes in second place, with an install-to-purchase time that lags behind **Finance** by roughly 13 hours 18 minutes. **Shopping** and **Gaming** apps, two app categories that prime users to purchase, take longer to clinch the deal.







### **User Retention**

Rates decline after Day 1, but efforts to re-engage users would deliver tangible results.



### What is retention and what does it measure?

### User retention is about keeping people coming back to your app.

- Retention shows the stickiness of your app.
- Retention measures the percentage of people who continue to use your app over a given period (week, month or quarter).
- Retention is the mirror test for your app and business because it doesn't matter how many installs you have if you're not able to retain those users.

Don't panic if your **Day 30** retention rate hits single digits. It doesn't mean 95% of your users have churned. Retention also reflects app use and frequency, and what you can realistically expect from your audience. After all, not all users will shop, travel or order food daily. Understanding your app value and user behavior will help you set the right retention targets for your app.

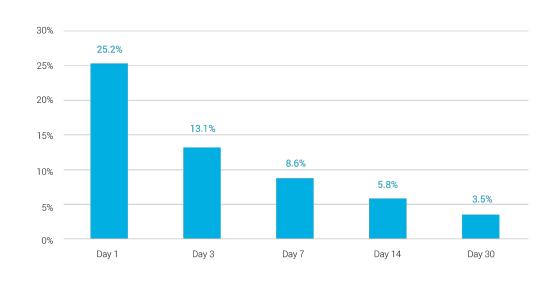


# App retention data suggests marketers should take action before Day 3.

A review of AppsFlyer retention data shows 25.2% of users continue to interact with apps on **Day 1.** It's a solid figure that predictably goes south, dropping 48% from **Day 1** to **Day 3**, marking a critical period when engaging campaigns and relevant messaging could the odds in a marketer's favor.

By **Day 7** marketers have lost a whopping 65.9% of their users. It's a dramatic decline that underlines the merits of getting a much earlier start on re-engagement efforts to extend the app user lifecycle.

#### Global Mobile App User Retention



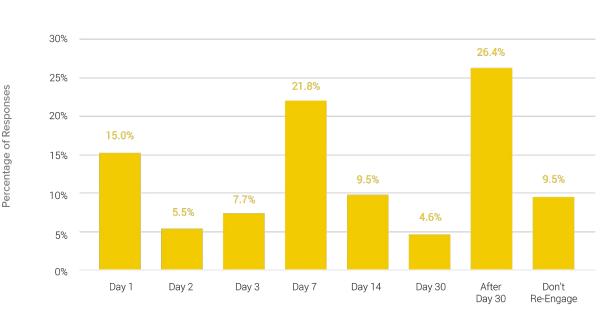


### Most marketers focus on re-engaging users after the thrill is gone.

When Marketers Begin Re-Engaging New Mobile App Users

Although it makes sense for marketers to do all they can on **Day 1** to keep high-intent users highly engaged, Liftoff survey show only 15% of marketers are following this approach.

More worrying is the near 10% of marketers who don't pursue efforts to re-engage users at all.



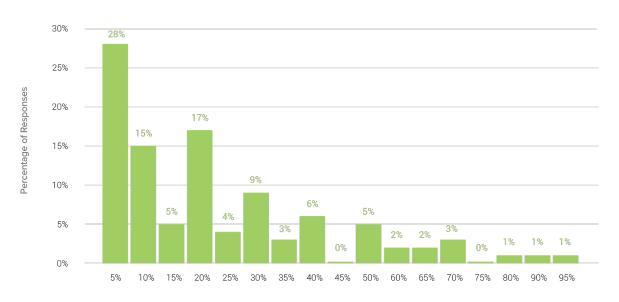


### 65% of marketers are focused on acquiring users, not necessarily retaining them.

Liftoff research shows spending patterns are sharply skewed toward user acquisition campaigns. It's a dangerous disconnect in a digital marketplace where a single-digit increase in retention can mean a double—or even triple—digit increase in profits.

Currently, 65% of respondents are spending 20% or less budget on re-engagement efforts.

### Mobile App Marketing Spend on Re-Engagement vs User Acquisition



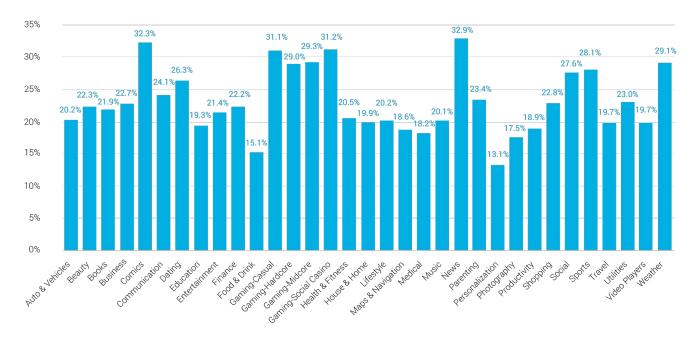
Percentage of Budget spent on Re-Engagement (the Remainder Being Spent on User Acquisition)



### Day 1 retention rates across app categories get off to a good start, but some are higher than the average.

Day 1 Mobile App User Retention by App Category

Apps offering fun and useful content grab are stickiest on Day 1. Winners include **News** (32.9%) and **Comics** (32.3%). Significantly, **Gaming** apps as a category hover around an impressive retention rate of 30.2%.

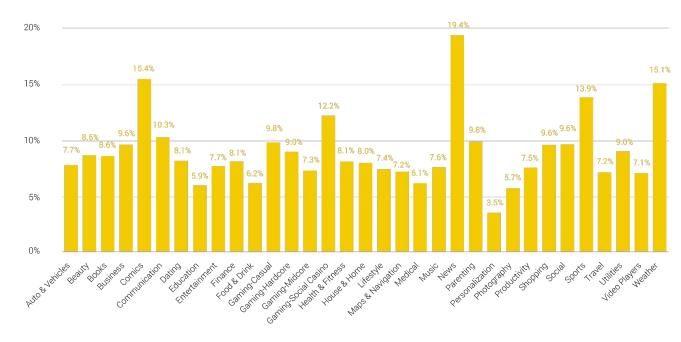




### Day 7 retention data shows rates are mixed as app appeal loses luster at a rapid pace.

Day 7 Mobile App User Retention by App Category

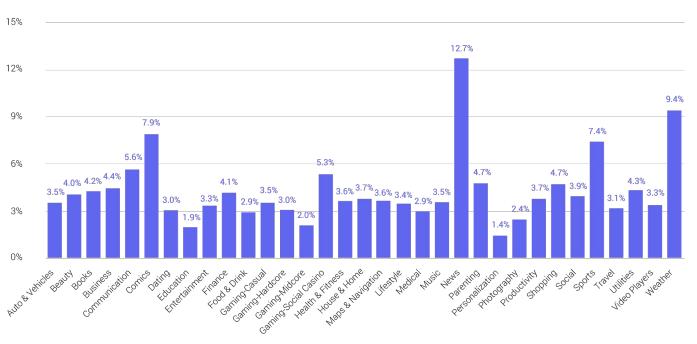
Some app categories, like **News**, a category that has become part of the regular routine thanks to fresh content, strong personalization and a well-timed and highly relevant flow of alerts, have what it takes to keep user attention.





### Day 30 retention rates highlight shortcomings, set expectations and provide a reality-check.

Day 30 Mobile App User Retention by App Category





### Day 30 retention rates highlight shortcomings, set expectations and provide a reality-check.

Significantly, 12 app categories place well under the 3.5% global retention benchmark. For some app categories, Day 30 marks the final lap, for others it could be the starting point. In both cases, Day 30 retention rates help marketers map out realistic growth projections and engagement goals.

Notably, there are some standout categories that outperform others. Among these, **Comics** are a strong show, taking third place behind Weather and News.

**Sports** (7.4%) is a slow-burner—but a steady performer—taking 4th place at every stage of the retention curve.





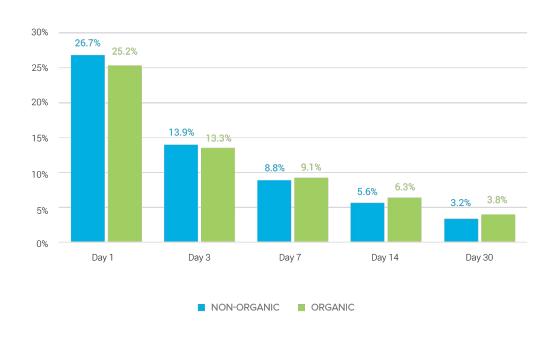




### Paid advertising makes a measurable—and positive—difference when it matters most.

Does saving money on advertising at the start cost more in the end? AppsFlyer data confirms organics have advantages—but suggests paid promotion early in the retention curve pays even greater dividends.

#### Mobile App User Retention by Source





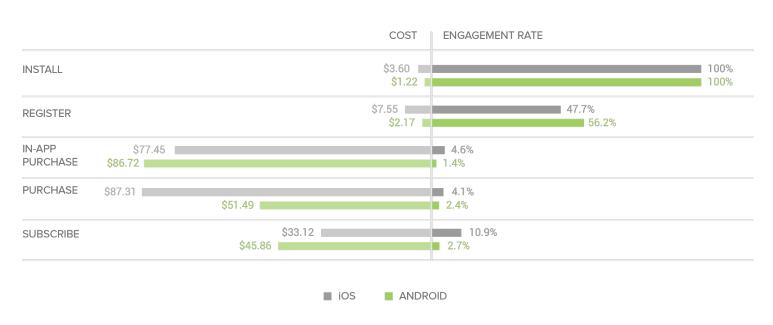


Users on both platforms are loyal, but iOS offers significant value for money



# Android is more attractive, but iOS offers marketers value for money-especially when subscription is the goal.

Platform: Costs & Engagement Rates



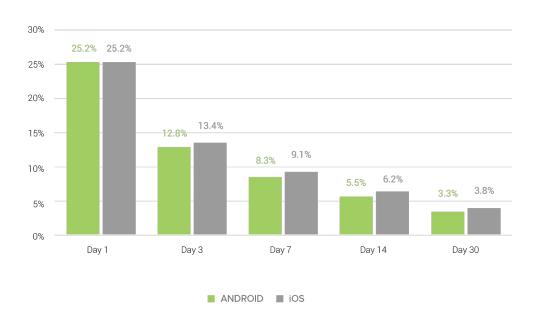


# Retention rates on both platforms are similar, but iOS has the edge.

**Day 1** retention rates are identical, suggesting users on both platforms download apps with a high intent and a strong appreciation for the value they offer.

On **Day 3** the gap between iOS users and Android users is only 0.6%. This widens to reach 0.8% on Day 7. On **Day 30** the curve dips into low single-digits and the difference in retention rates between platforms reaches 0.5%.

#### Mobile App User Retention by Platform





# Geographical Analysis

Growth is global, but a breakdown of costs and conversion across regions and countries exposes a world of opportunities.

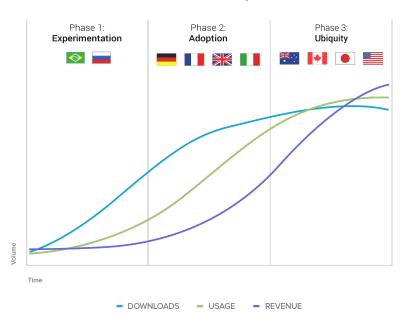


# The App Economy is firing on all cylinders—but different regions are moving at different speeds.

Borrowing from App Annie, we group some of the key countries that power the App Economy according to where they find themselves on the market maturity curve.

- Phase 1: Experimentation is all about discovery.
   Downloads surge driven by new users, new devices entering and a pent-up demand for apps.
- Phase 2: Expansion is all about going deep, not wide.
   Users have made choices about the types of apps that are the most useful to them and are warming to frequent use.
- Phase 3: Maturation is all about sustainability. Countries
  in this group are advanced and established, and users
  buy into the value proposition apps offer. However,
  engagement activities come at a price.

#### Mobile Market Maturity Curve

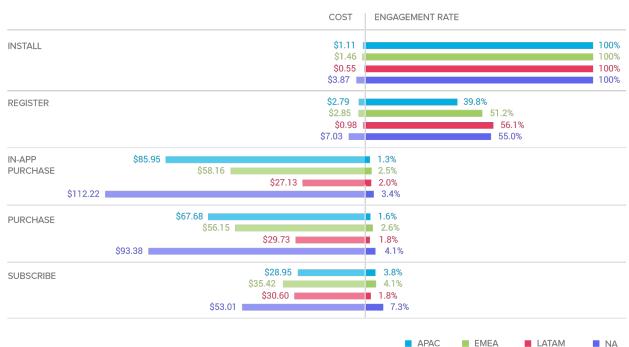


Source: App Annie, State of Mobile Report 2019



# Mature markets offer highly engaged audiences at a high price, but EMEA offers the better balance.

Region: Costs & Engagement Rates





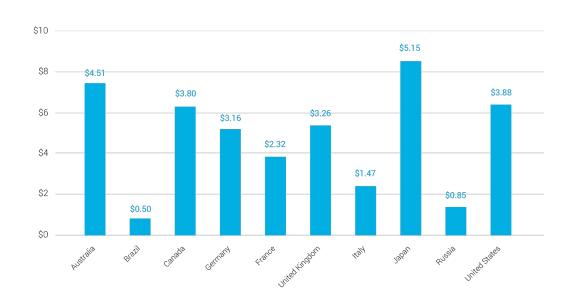
#### **Install:** Costs in mature markets are more expensive.

Mature Phase 1 markets are moving at a fierce pace with a ferocious appetite for apps, but attracting users requires effort and budget. At \$5.15, Japan is most expensive, followed by Australia. The U.S. comes in third, nearly one-third under the cost of an install in Japan.

In EMEA, the average cost to acquire a user is attractive at \$2.55. Significantly, Russia, a Phase 1 country, offers considerable value for money is a bargain if we consider that most app categories there (particularly Games) are poised for massive growth.

At \$0.50, CPIs in Brazil are a steal.

#### Install Costs by Country





#### Register: A mid-funnel activity with a moderate price tag.

Phase 3 countries may be attractive, but they are also expensive. At \$8.73, Japan leads the pack ahead of the U.S. and Australia.

Phase 2 countries shows striking similarities—most likely because users at this stage are are asked to take action, not open their wallets. The average cost to acquire a user who complete a registration is just \$4.35.

Predictably, Phase 1 countries Russia and Brazil offer outstanding value for money.

#### Register Costs by Country \$10 \$8.73 \$8 \$7.23 \$6.67 \$4.84 \$4.58 \$4.33 \$3.66 \$0.73 \$0



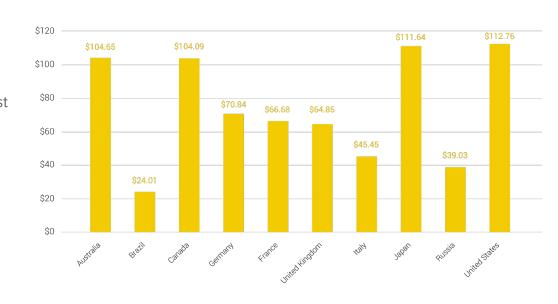
### In-App Purchase: It may be driven by passion, but commitment comes at a cost.

At \$112.76, the cost to acquire a user in the U.S. is marginally more expensive than in Japan (\$111.64). Canada, which placed a distant 4th to Australia, now closes the gap with a nearly identical price tag.

Among Phase 2 countries, Germany is the most expensive— a full 6.2% more than France and 9.2% more than the U.K. However, acquiring users in Italy, a market on the move, offer significant value for money (coming in 35.8% cheaper than their German counterparts).

Once again, Phase 1 countries Russia and Brazil offer lowest costs.

#### In-App Purchase Costs by Country





# Purchase: Market maturity and commerce readiness play a major role.

Mature Phase 3 markets accustomed to mobile commerce and shopping naturally take the lead, but the mix has shifted. This time it's Canada in first place, 16.7% more than U.S. and 16.8% more than Japan.

Among Phase 2 countries, Italy closes the price gap with its neighbors. Significantly, the average cost to acquire a user who makes a purchase costs an average of \$60.33 (two-thirds of Japan and the U.S. combined).

Russia closes the gap to EMEA.

#### Purchase Costs by Country





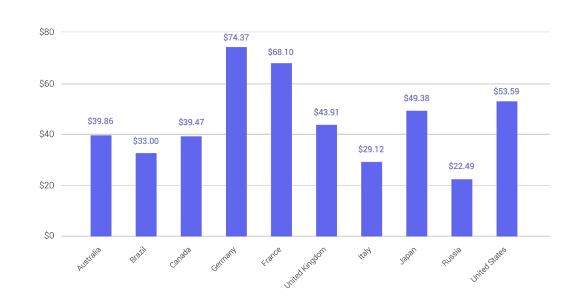
# **Subscribe:** Mature markets are primed to purchase.

Phase 3 markets that were hard to win over for purchases are a pushover for subscriptions. At \$53.59, the cost to acquire a subscriber in the U.S. is 41.7% cheaper than the cost to acquire a purchaser. It's a similar situation in Japan.

Among Phase 2 countries, Germany is the most expensive in Europe. The U.K. is attractive, but conditions for commerce post-Brexit may be a different story.

However, Phase 1 country Russia (\$22.49) offers the biggest bargain of them all.

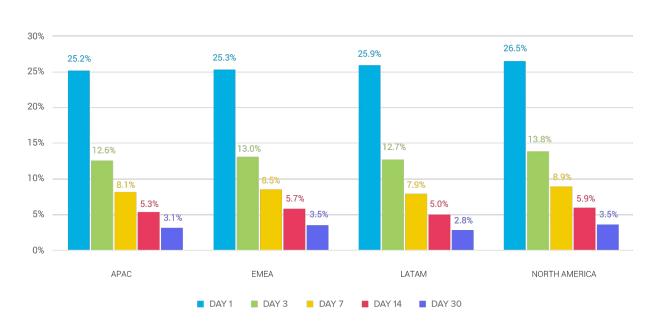
#### Subscribe Costs by Country





# Retention rates are strikingly similar, but users in North America are consistently more loyal to their apps.

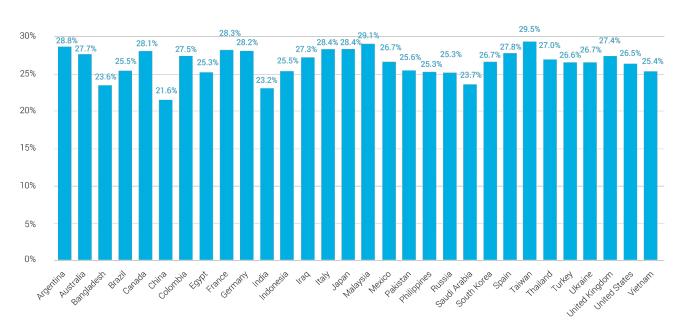
#### Mobile App User Retention by Region





### Day 1 Retention: Asia is home to some of the highest-performing countries in the data set.

#### Day 1 Mobile App User Retention by Country



Taiwan outperforms the average retention rate in APAC (25.2%), followed by Malaysia. Argentina comes in third place, but still well ahead of the average for LATAM (where Day 1 hovers at 25.9%).

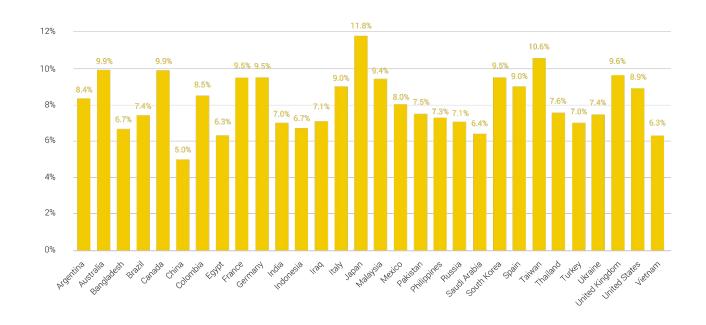


# Day 7 Retention: Mature markets are the most loyal to the apps they love.

Day 7 Mobile App User Retention by Country

Retention rates in 12 of the 30 countries in this data set, most of them mature marketers, outperform the 8.6% global retention benchmark.

Japan stands out as the most loyal market, leading at 11.8%. China places last and lowest with a 5% retention rate.



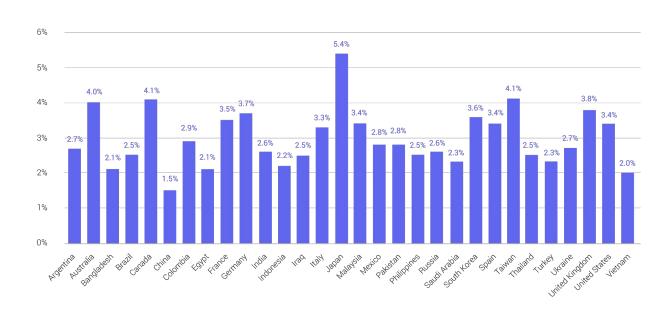


#### Day 30 Retention: Japan leads with the longest lasting loyalty.

25% of the countries are home to the most loyal users—and many are also mature markets. A standout example is Japan, where retention towers at 5.4%.

Across the remaining 75% of the data set, retention rates are mixed—ranging from 3.4% in Spain to 2% in Vietnam. Predictably, China once again places last, this time plummeting to 1.5%.

#### Day 30 Mobile App User Retention by Country





# Seasonal Trends

Highs and lows throughout the seasons reveal exciting periods of opportunity when marketers can get value for money.





## Install: Costs across the year are favorable, but spring is the standout season.

Install: Average Monthly Costs

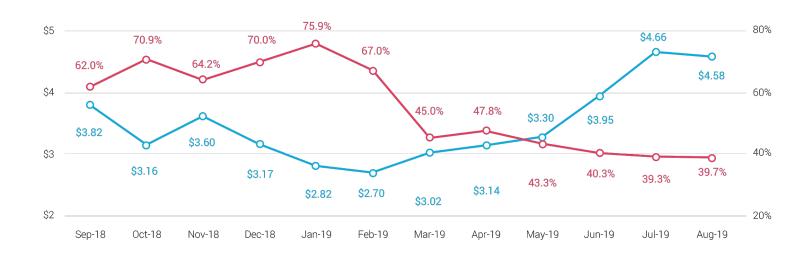


Source: LIFTOFF Internal data, September 2018 - August 2019



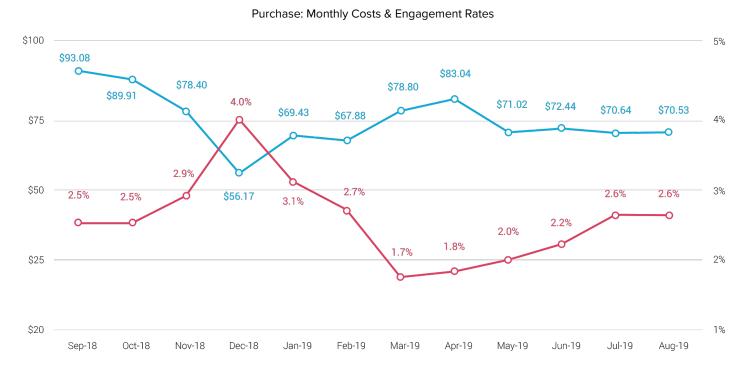
# Register: Costs and conversion rates are in rare balance from September through February.

Register: Monthly Costs & Engagement Rates





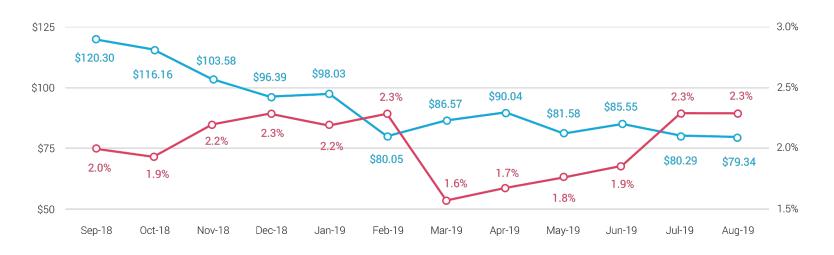
#### Purchase: A post-install action that comes at a cost-and a significant one at that.





# In-App Purchases: Users warm to purchases in spring, and summer is a hot time to capture share of wallet.

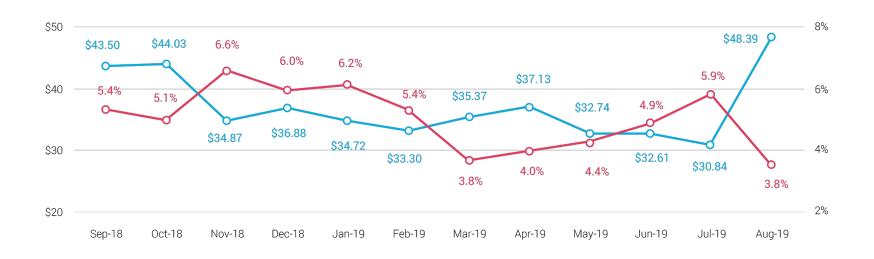
In-App Purchase: Monthly Costs & Engagement Rates





### Subscribe: An engagement activity marketers get right-at a much lower cost.

#### Subscribe: Monthly Costs & Engagement Rates





# Challenges

Mobile ad fraud climbs up the agenda—and one step ahead of marketers' effort to combat it



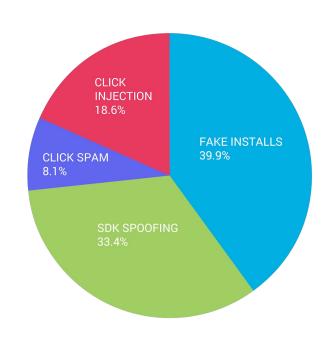
# Increasingly sophisticated ad fraud permeates the ecosystem.

Mobile ad fraud is a massive problem—and only getting worse as automation makes it more difficult to differentiate between bots and actual humans.

A snapshot from mobile measurement company Adjust reveals fake installs—accomplished by fraudsters who use device emulation software in virtualized environments to fake installs—account for nearly 40% of ad fraud.

SDK Spoofing (33.4%) comes in a close second. In practice, SDK Spoofing tricks attribution providers into thinking they're receiving real data from a real app on an actual device. But in reality, the data is only devised to look like the real thing. What's worse, it's an attack strategy that affects every SDK in every device on the planet.

#### Mobile Ad Fraud Types Blocked

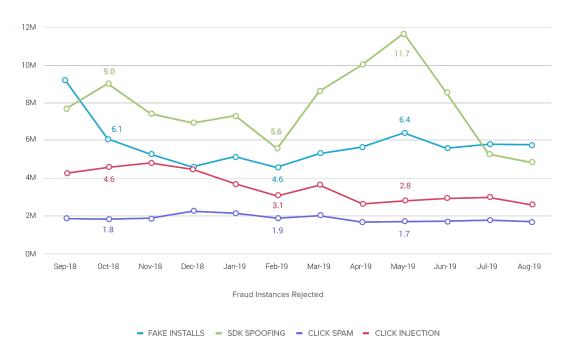




#### SDK Spoofing is nearly undetectable, but not unstoppable.

SDK Spoofing is a fraud type that dominates the number of installs Adjust rejects. SDK Spoofing may have "evolved to perfection," according to Andreas Naumann, Head of Fraud at Adjust and a Mobile Hero, but the tools to detect it are also far more sophisticated. "Making sure it's not possible to spoof an SDK is the best protection," Naumann explains. The drop in instances rejected is (down significantly from an all-time of 11.7 million) is a strong testament to this

#### Trends in Mobile Ad Fraud Types



Source: 🔞 adjust Internal data, September 2018 - August 2019



#### Estimates of the total scale and cost of mobile ad fraud vary hugely, due to the complexity of fraud types and the difficulty of detection.

Ad fraud currently costs companies billions, and estimates vary wildly, ranging somewhere between **\$6.5 billion** (<u>Association of National Advertisers</u>) and **\$19 billion** (<u>Juniper Research</u>).

Mobile ad fraud data is also sketchy, but shows marketers are winning the war on fraud and highlights top verticals and operating systems still under siege.

- Global <u>fraud rates fell to 16%</u> in the period from November 2018 to April 2019 thanks to the advance of protection solutions that counter attacks.
- <u>E-commerce is at most risk</u>, a vertical accounting for nearly one-third (30.76%) of rejected fraudulent app installs.
- <u>Fraudulent installs are higher on Android</u> than on iOS. In 2018, 27% of Android installs were fraudulent, compared with 21% of iOS installs.



31%

E-commerce accounts for 31% of rejected fraudulent app installs



27%

Fraudulent installs are 27% higher on Android than on iOS



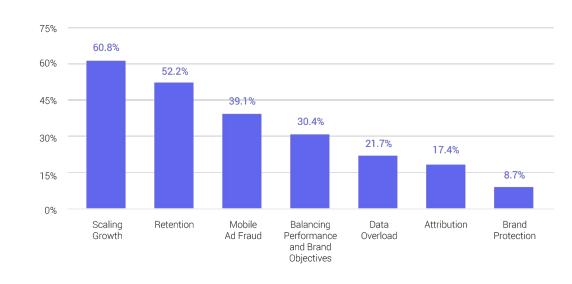
# Mobile ad fraud is one of the Top 3 challenges marketers face today.

Percentage of Responses

Marketers are focused on filling the funnel (scaling growth - 60.8%) and plugging a leaky bucket (retention - 52%). Mobile ad fraud, which can endanger both, is the number three challenge.

Further down in the list, only 21.7% of marketers are concerned about data overload. This counters a recent study of CMOs by Singular that found data overload (and more importantly the lack of meaningful and actionable insights from the data) is a major headache.

#### App Marketers' Biggest Challenges



Source: LIFTOFF survey of 300+ mobile app marketers, September 2019

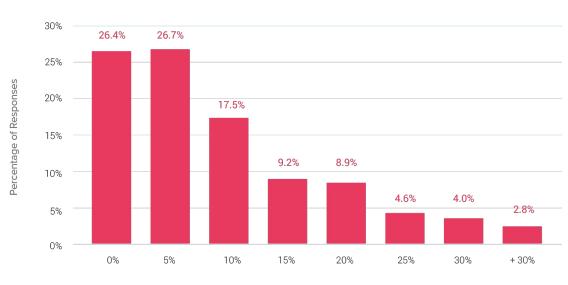


# However, marketers are not vigilant, and more than half spend 5% or less time on fraud per week.

While the industry has made significant headway against ad fraud, the worst isn't over—yet. The bigger battle looms on mobile, but Liftoff survey data suggests marketers are unprepared, or uninterested—or both.

More than half of marketers spend 5% or less on addressing the problem per week and 35.6% spend between 10-20% on their time on this activity.

#### Time per Week App Marketing Teams Spend on Mobile Ad Fraud



Time per Week Spent on Mobile Fraud



Liftoff is a performance-based mobile app marketing and retargeting platform which uses post-install user data to run true cost-per-action user acquisition and re-engagement campaigns. Powered by advanced machine learning and lookalike targeting, Liftoff campaigns are optimized to drive actions beyond the install, like booking a hotel, making a reservation, or renewing a subscription. Liftoff's cost-per-action model helps customers scale and grow by acquiring users that actively spend in revenue-producing events. Headquartered in Palo Alto, CA with offices in New York, London, Singapore, Tokyo, South Korea and Paris, Liftoff works with leading app publishers and brands across the globe.

www.liftoff.io