

State of Mobile 2022







2021 Mobile Landscape at a Glance

New App Downloads

26.7B

App Store Spend

\$417M

Daily Time Spent Per User

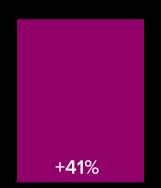
4.7 Hrs

Gaming App Downloads

9.3B

Gaming App Spend

\$165M



2Y Growth

iOS, Google Play

> 799,000 apps downloaded per minute in 2021 +12%

2Y Growth

iOS, Google Play

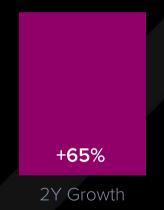
> \$555 spent per minute in 2021



2Y Growth

Android Phones

1/3 of daily waking hours



iOS, Google Play

> 35% of all apps downloaded in 2021



iOS, Google Play

> 40% of total spend in India in 2021

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- Top App & Games of 2021

Dive deeper into the insights contained in this report
by exploring directly in data.ai Intelligence. Each slide contains
links to view the data in expanded markets and trended over
time. For Access to data.ai Intelligence,
reach out today. This report is interactive. For the best
user experience, please view in your web browser.

A Few of Our Amazing Customers

































matrimony.com



Macro Mobile Trends

Our partnership with data.ai has helped us better navigate the gaming market, providing us insight and assistance in the decision-making process. Our favorite has to be Game IQ's pioneering capability to present a clearer picture of our clientele and allow us to create a tailor-made experience.

Matt Liu
Global Publishing & Marketing Vice General Manager
NetEase Games



MACRO MOBILE TRENDS

Users in India Spend 1/3 of Waking Hours on Mobile

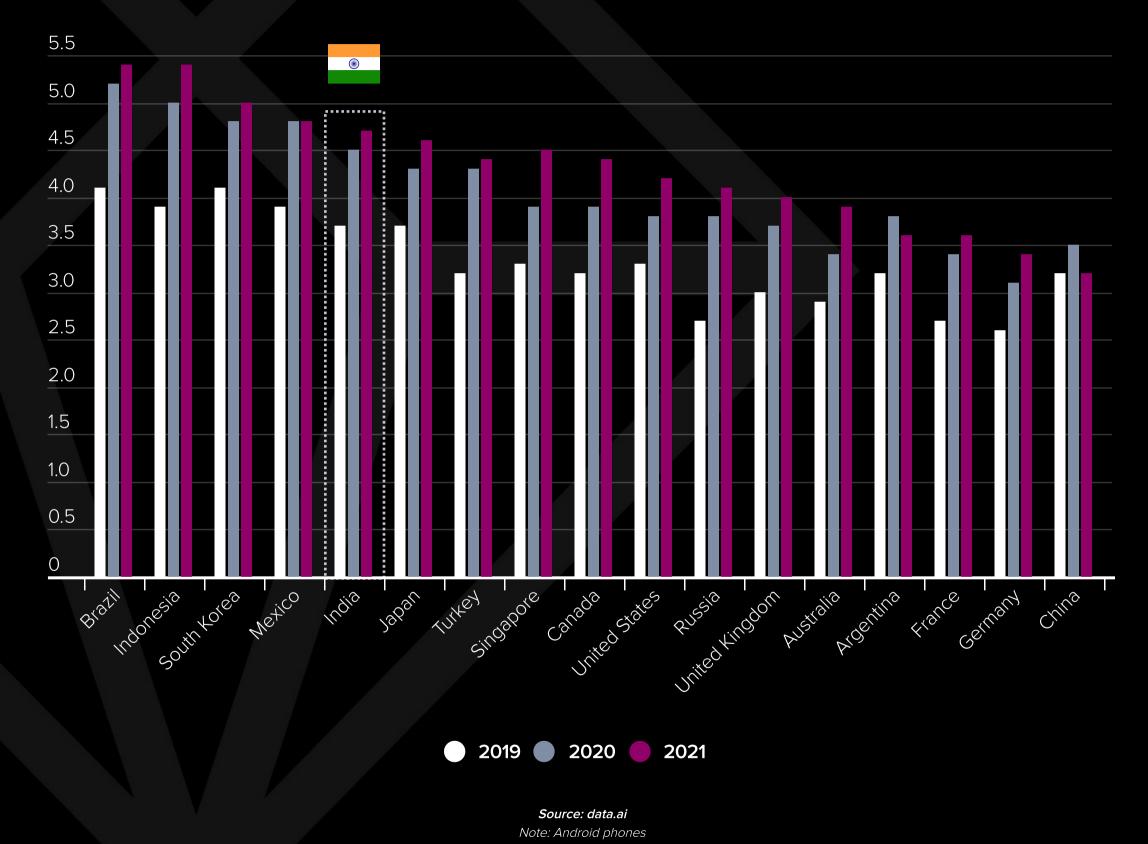
In India, time spent surpassed 4.7 hours per day in mobile apps in 2021 — up 27% from 2019.

Mobile is critical to reaching users in India. Users spent more time on mobile in India than in other regions, ranking as the #5 region.

The average person in India watched an estimated <u>3</u> hours 17 minutes of TV a day, whereas they spent 4 hours 42 minutes on their mobile device in 2021.

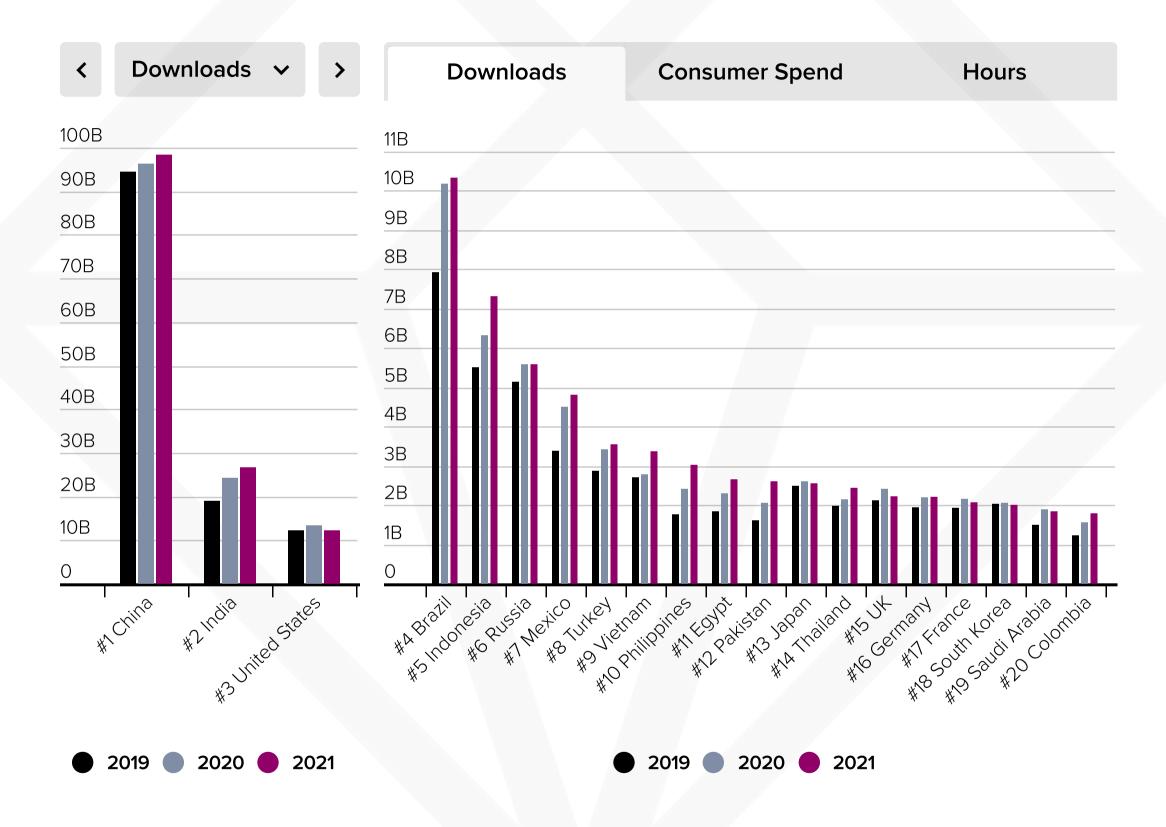
Mobile usage estimates highlight growth sectors to inform strategic roadmap and investment priorities. Know where to make strategic decisions: advertising spend, corporate prioritization and resource allocation follow the eyeballs — and they are on mobile.

Average Hours Spent on Mobile Per Day Per User



6

Top 20 Mobile Markets in 2021



Source: data.ai

Note: Downloads across iOS, Google Play and third-party Android in China combined; Time spent is Android phones only; Spend is gross — inclusive of any percent taken by the app stores

MACRO MOBILE TRENDS

26.7 Billion Downloads in India, \$417 Million in Consumer Spend, 700 Billion Hours

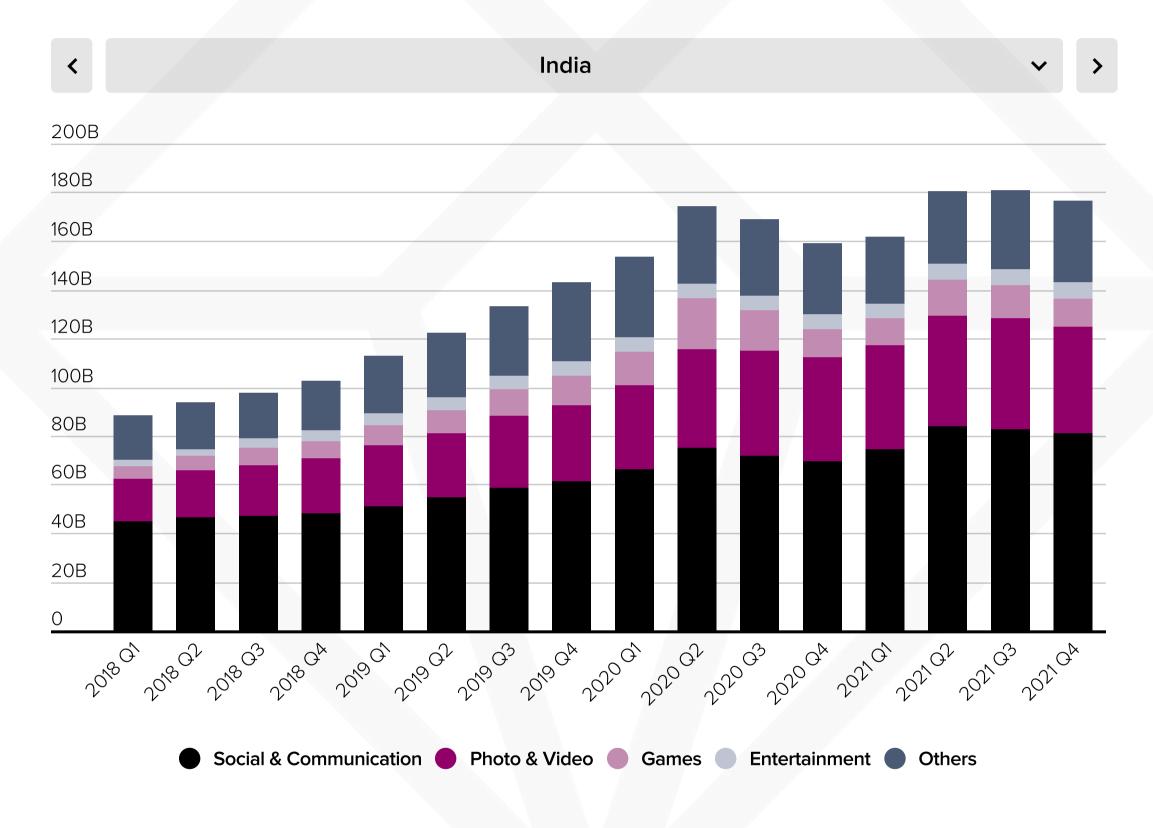
Emerging markets dominate for downloads growth with India seeing a standout 26.7 billion downloads (10% growth YoY). Pakistan, Peru, the Philippines, and Vietnam were among the fastest-growing markets for downloads at 25%, 25%, 25%, and 20% growth YoY, respectively.

Notable categories driving growth across both downloads and consumer spend in 2021 include Finance (+27% YoY growth in downloads; +46% YoY increase in spend), Books & Reference (+13% downloads; +15% spend) and Medical (+38% downloads; +36% spend).

Mobile adoption boomed in 2021, with growth across downloads, usage and app store consumer spend.

Size the market and keep tabs on fast-growing areas of opportunity in data.ai.

Hours Spent in Apps by Category



Source: data.aiNote: Android phones

MACRO MOBILE TRENDS

7 of Every 10 Minutes on Mobile Was Spent in Social and Photo & Video Apps in 2021

As time increases on mobile in emerging categories, consumers are also engaging deeper in early-mover categories like Social, Communication and Photo & Video apps.

While Photo & Video apps (e.g. <u>Josh</u> and <u>MX Takatak</u>) have seen an increase in market share of time spent, this has largely not been at the expense of current habits. Rather, consumers have turned historically 'non-mobile' time into time spent in apps and games.

The pandemic accelerated existing mobile habits, which have solidified in 2021. While social dominates for time spent globally, regional differences in app preferences highlight unique market differences. <u>Discover local trends in data.ai</u>.

MACRO MOBILE TRENDS

Mobile Ecosystem Healthier Than Ever: Publishers Released 2 Million New Apps & Games in 2021

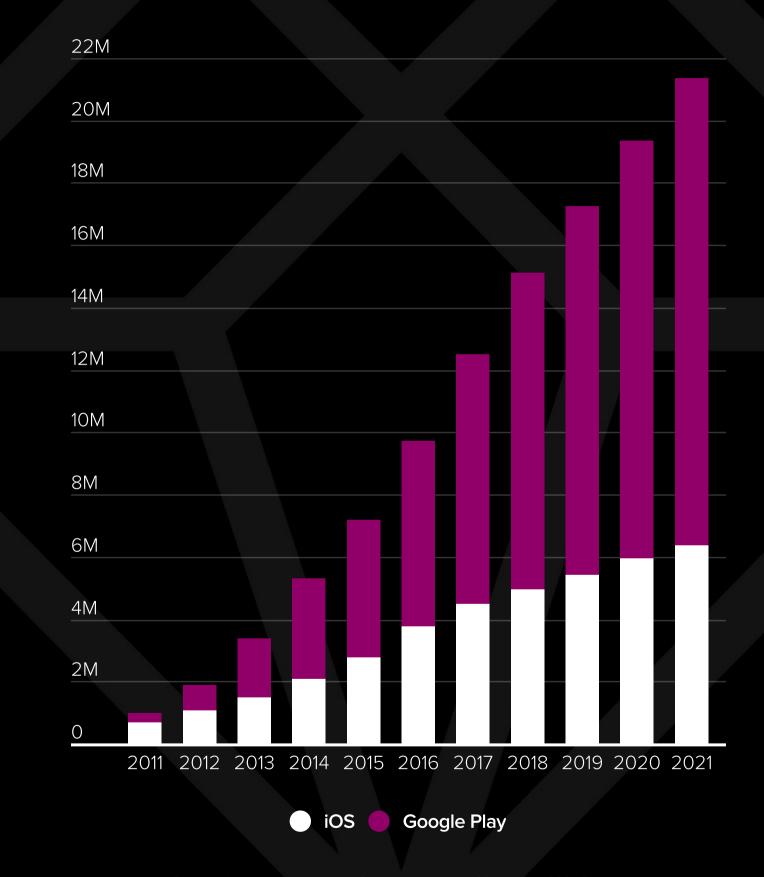
This brings the total of apps and games ever released on iOS and Google Play to over 21 million.

Google Play accounted for 77% of all apps and games released in 2021. Across both iOS and Google Play, Games represented 15% of all new releases in 2021. The remaining 85% of new apps span all categories of the app stores, from mobile-first movers like social to mobile-forced industries like insurance and healthcare.

Apps are also removed and phased out over time to leave the current live apps and games available to download on the app stores at 5.4 million (1.8 million on iOS and 3.6 million on Google Play).

With smartphones providing unparalleled reach and access to billions of consumers worldwide, every industry is a mobile-focused industry — New app releases illustrates the demand for engaging customers on mobile. Keep tabs on the rapidly-changing competitive landscape with data.ai.

Cumulative Number of Apps Released by Store



Source: data.ai. Note: Number of apps released as of December 2021. Release date is based on app metadata on iOS App Store or Google Play in any country

MACRO MOBILE TRENDS

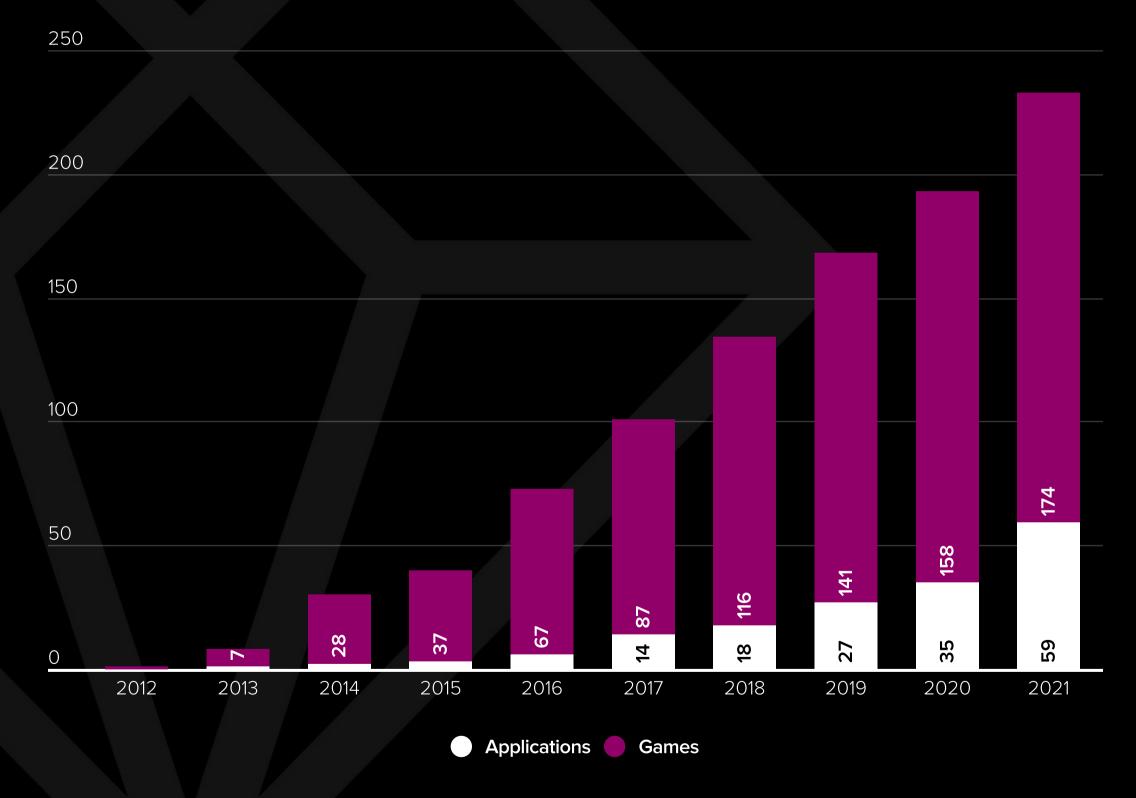
233 Apps & Games Generated Over \$100 Million Dollars Annually Worldwide in 2021

Consumers migrated more of their entertainment and games consumption onto mobile. In 2021, there were over 230 apps and games surpassing \$100M in annual consumer spend, with 13 of them surpassing \$1 Billion.

This was up 20% from 2020 at 193 apps and games over \$100M in annual spend, and only 8 over \$1 Billion.

Improved connectivity, screen size and hardware have made it easier than ever before to enjoy premium applications & gaming experiences on-the-go. Consumers, consequently, migrated share of wallet to mobile as the de facto gaming console and tool for managing our lives. <u>View top grossing apps in data.ai</u>.

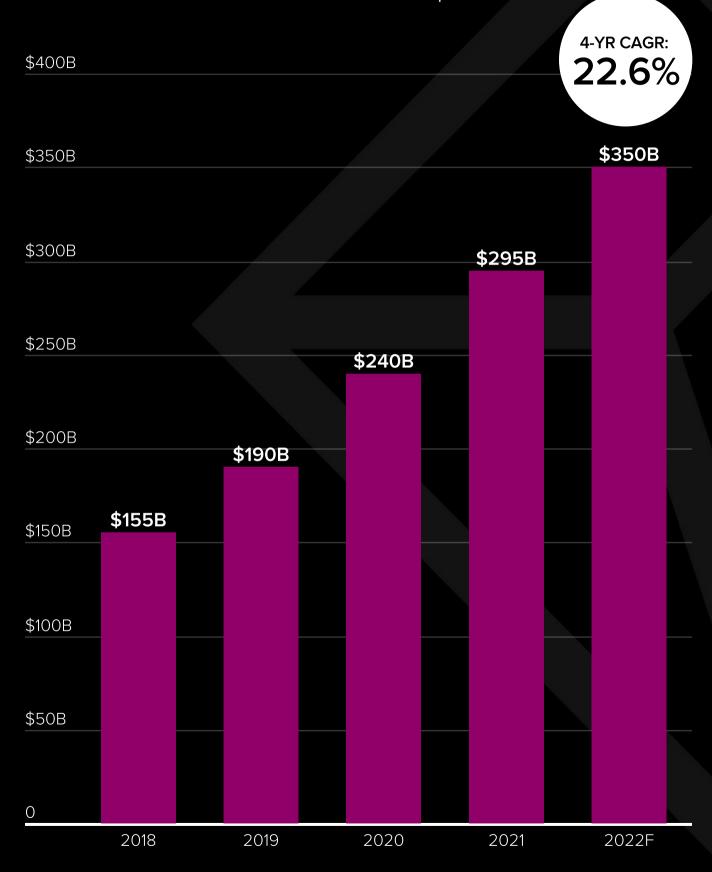
Number of Apps Surpassing \$100 Million in Annual Global Consumer Spend



Source: data.ai

Note: Consumer Spend across iOS, Google Play, iOS only for China; Spend is gross — inclusive of any percent taken by the app stores

Global Mobile Ad Spend



Source: data.ai

MACRO MOBILE TRENDS: ADVERTISING

Despite IDFA Fears, Dollars Flocked to Mobile Ads — Topping \$295B Worldwide in 2021, up 23% YoY and Poised to Hit \$350B in 2022

Mobile is driving digital ad spend globally. Amidst an economic rebound with GDP up 5.9% in 2021, cyclical events like the Tokyo Olympics and UEFA Euro Tournament, and engrained mobile habits, ad dollars flowed to mobile as the primary and captive channel for engaging consumers — representing 70% of digital spend.

With the Beijing Olympics in 2022 and US mid-term elections, digital ad spend is set to be robust with the majority driven by mobile. Brand marketing vs performance marketing is set to pick up as businesses and brands capitalize on mobile's broad and captive audience amidst the backdrop of IDFA deprecation.

Monitor the changing best practices in mobile advertising, pinpoint ad creatives are performing best and decode the growth strategies of the leaders in the mobile user acquisition. <u>Uncover advertising insights in data.ai</u>.

The Most Searched Keywords on Android Phone in 2021

linkedin

meeting

adobe scan

pdf scanner

microsoft

teams

zoom

Business < South United Rank Australia Brazil Canada France Germany India Indonesia Japan Mexico Russia Turkey **United States** Kingdom Korea scanner seek meet job teams edevlet zoom zoom zoom zoom zoom zoom zoom zoom app australia google microsoft почта 줌 yahoo zoom zoom teams zoom google meet meet zoom zoom meet россии teams post whatsapp 알바몬 3 google meet iobs linkedin hh.ru türkiye indeed scanner app teams meetings teams zoom meet business 알바천 국 scanner for google microsoft **i**şkur やぶー job meetings indeed pôle emploi autoscout24 meetings teams ЗУМ iphone meet teams microsoft леруа scanner やふー 한글 işkur linkedin microsoft teams claro linkedin logo camscanner teams teams мерлен app free authenticator

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teams

ростелеком

аэрофлот

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chat

microsoft

teams

indeed

<u>Uncover trends in App Store Optimization (ASO)</u> in and competitive insights on app store search traffic, keyword rankings and paid app store search ads in data.ai.

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teams

team

minha claro

teams

chat

microsoft

teams

canada

google

meet

post

6

8

9

jobs

microsoft

teams

xero

teams

time

duo mobile

the zoom app

google meet

uber driver app

for iphone

linkedin

Gaming

Jam City's business has experienced terrific growth over the years and we head into 2022 with billions in aggregate lifetime revenue and tens of millions of players around the world. data.ai has remained a valued partner whose market intelligence platform provides industry benchmarking and competitive insights across the mobile ecosystem which our team uses daily to help drive our continued success at scale.

Josh Yguado President and COO Jam City



\$165 Million in Gaming Consumer Spend in 2021, Bringing in 40% of Total Spend Despite Slight Dip YoY

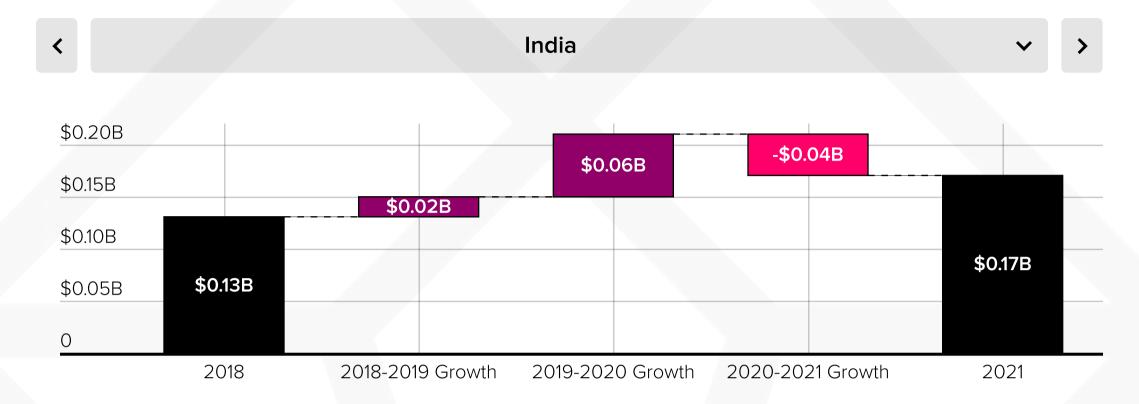
In 2021, hit games such as <u>Genshin Impact</u> and <u>Roblox</u> saw further growth in consumer spend as mobile games are now capable of offering console-like graphics and gameplay experiences.

The fastest growing app store-defined gaming category was Adventure games, up 17% YoY to a total of more than \$13.6 million in gaming spend.

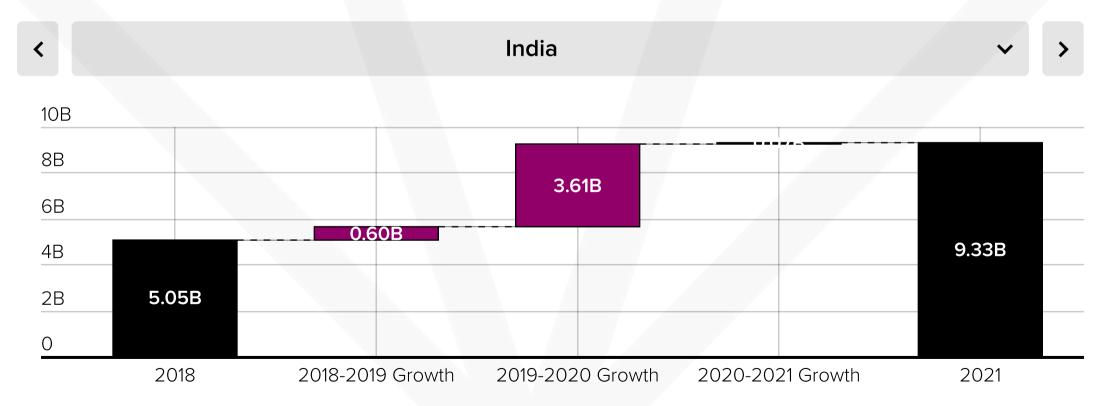
Hypercasual games like <u>Bridge Race</u> and <u>Hair Challenge</u> were key downloads driver in 2021.

Mobile game sustained strong momentum from pandemic surge — 2021 in gaming was as dynamic as any previous year. The time to act is now.

Mobile Game Consumer Spend Growth

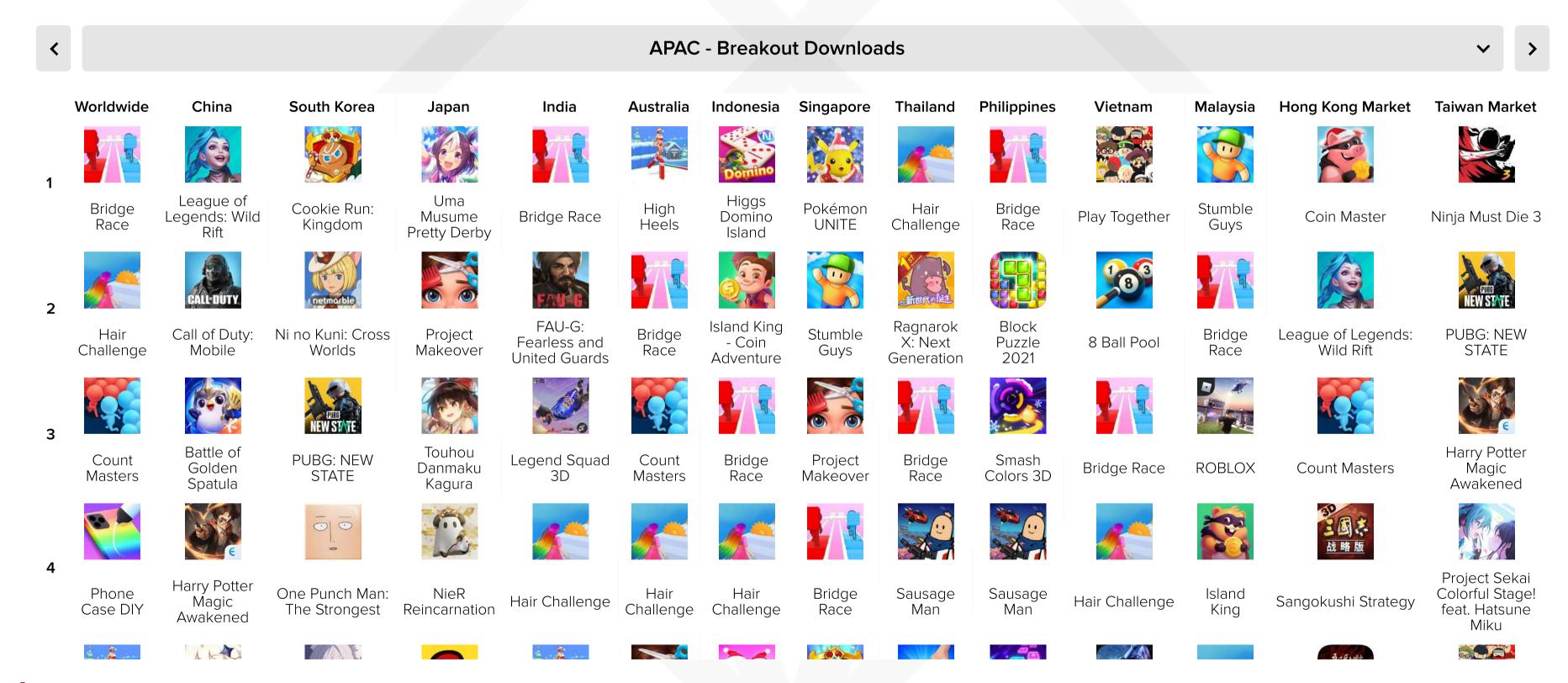


Mobile Game Downloads Growth



Source: data.ai Note: Downloads across iOS, Google Play and third-party Android in China combined; Time spent is Android phones only; Spend is gross — inclusive of any percent taken by the app stores

2021 Breakout Rankings by Market | Games

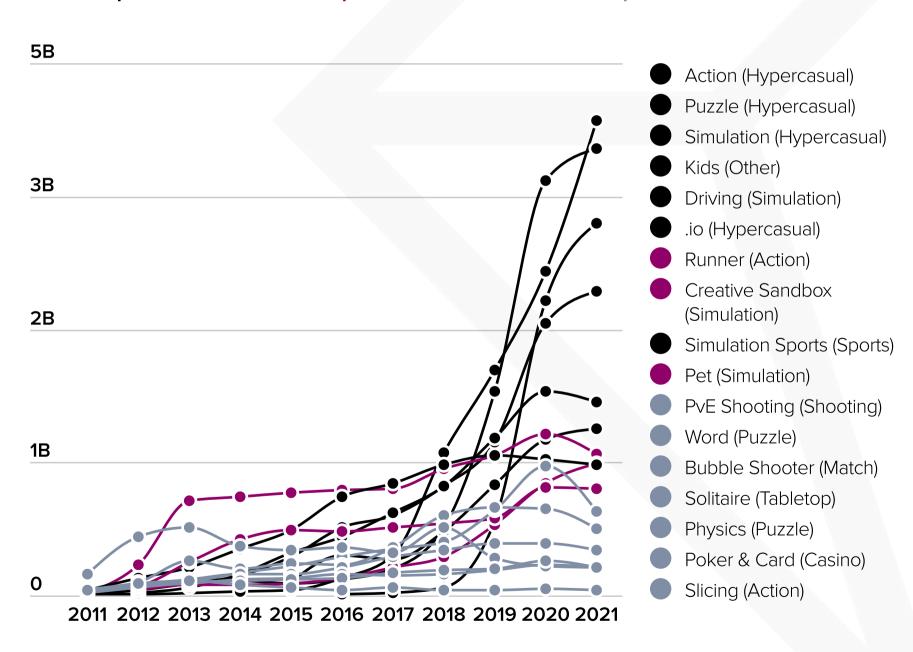


Learn More: Uncover the <u>Top Games by Change in Yearly Downloads</u>

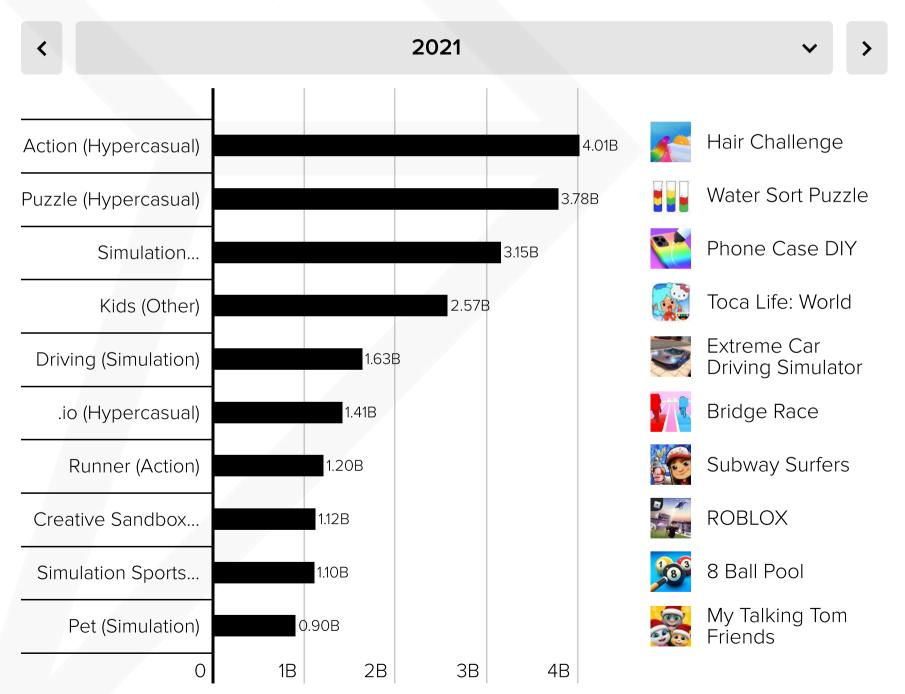
Astronomical Rise of Hypercasual: Innovation & Shifting Player Preferences Gave Way to Emerging Game Genres

Yearly Evolution of Top Genres by Downloads 2021 Top Genres 2021's Top Genres in 2011

2011 Top Genres



Worldwide | Top Gaming Subgenres & Top Games by Downloads

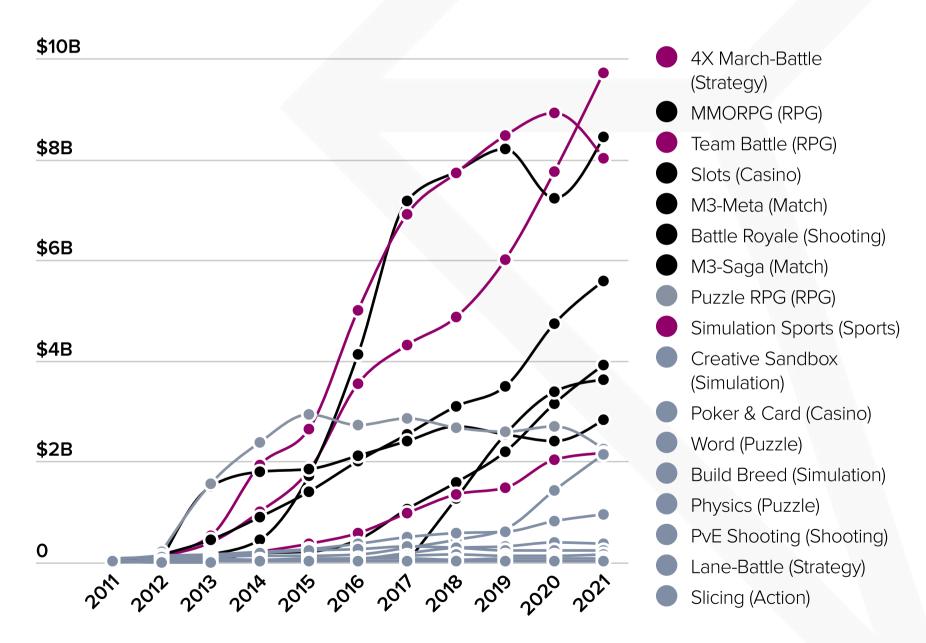


Analyze More Genres in data.ai's Game IQ Market Sizing Report

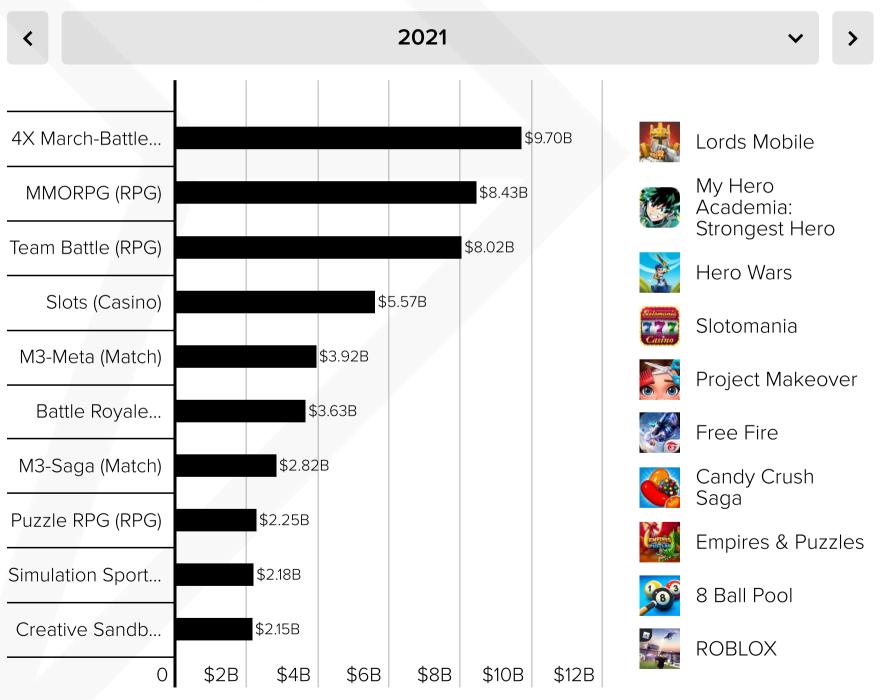
4x March-Battle Strategy Games Emerged as the Most Monetizable Genre for Mobile Games

Yearly Evolution of Top Genres by Consumer Spend

2021 Top Genres 2021's Top Genres in 2011 2011 Top Genres



Worldwide | Top Gaming Subgenres & Top Games by Consumer Spend



Analyze More Genres in data.ai's Game IQ Market Sizing Report

Source: data.ai Note: Downloads across iOS, Google Play. China is iOS only. Genre breakdown based on App Annie Game IQ Taxonomy as of January 7th, 2022

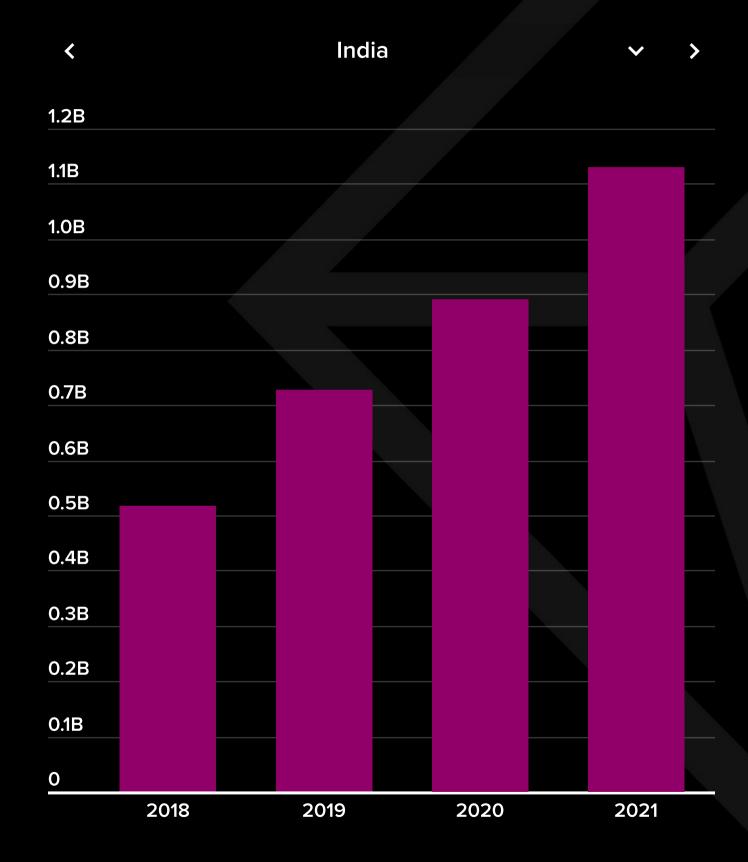
Finance

Consumers have shown how much they love the convenience and control of our all-in-one shopping app. From shopping inspiration and payment methods to transparent banking, budgeting features and post-purchase services, the Klarna app helps consumers to save time and money at every step of the shopping journey. With 70% of mobile shoppers looking for a single app that better unites services and features instead of switching between apps, Klarna is optimally positioned to become the world's favorite way to shop, pay and bank.

David Sandström
Chief Marketing Officer
Klarna



Finance App Downloads by Country



Source: data.ai

Note: Downloads across iOS, Google Play; China is iOS only

FINANCE

Finance App Downloads in India Surpassed 1B in 2021, Fueling the 28% YoY Increase in Finance App Downloads Worldwide to 5.9B

Although not the largest markets globally, Mexico, Indonesia, Argentina, and Brazil saw the largest growth over the past 4 years, up 250%, 185%, 180% and 175%, respectively. India grew 28% YoY.

In Latin America, there is a substantial underbanked community as <u>70%</u> of their population does not have a bank account and nearly 80% does not have a credit card. Consumers are more willing to try alternatives to retail banks, such as neobanks, which tend to be more accessible to those without excellent credit and offer custom features better suited for specific needs.

Knowing high-growth areas is key for app publishers when determining their expansion strategies. <u>Compare Finance app downloads over the years and track their market growth.</u>

FINANCE

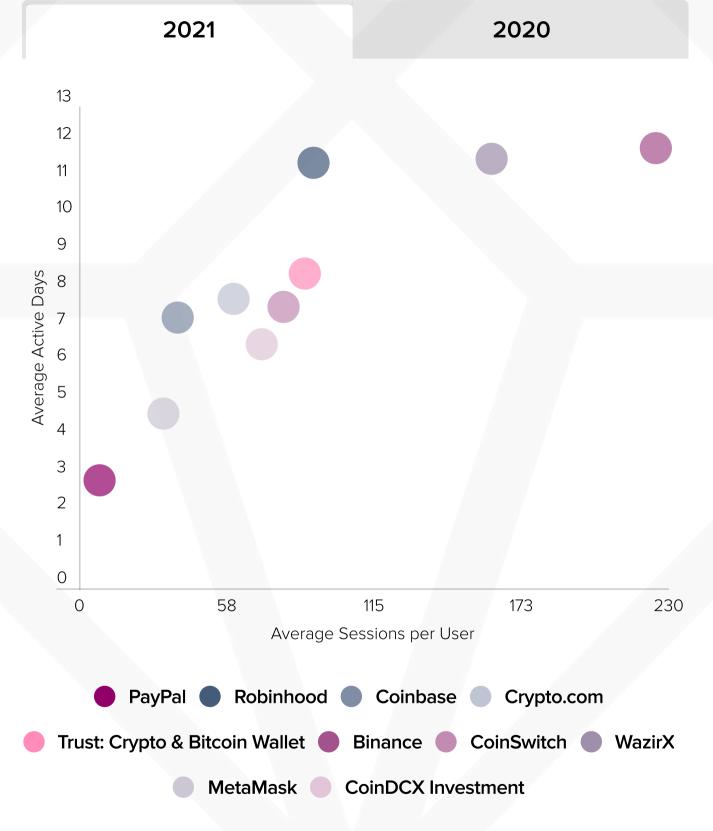
PayPal Entered the Cryptocurrency Market in 2021; Binance & WazirX Saw the Highest YoY Increase in Sessions Per User Worldwide

Although US-HQ'd publishers dominates the cryptocurrency space, taking up half of the top 10 most downloaded cryptocurrency apps worldwide, India was a rising contender in 2021.

<u>CoinDCX Investment</u> made a splash despite only launching in Q4 2020 across iOS and Google Play stores. Within one year, it has reached #9 worldwide in terms of the most downloaded cryptocurrency apps.

Although <u>PayPal</u> had the highest average MAU worldwide, <u>Trust:</u> <u>Crypto & Bitcoin Wallet</u>, <u>Binance</u>, and <u>WazirX</u> saw the highest increase in usage YoY; understanding the flexibility of their offerings that go beyond trading cryptocurrency assets is crucial for any app publisher that tries to emulate their successful adoption worldwide. <u>Compare the top breakout cryptocurrency apps of 2021.</u>

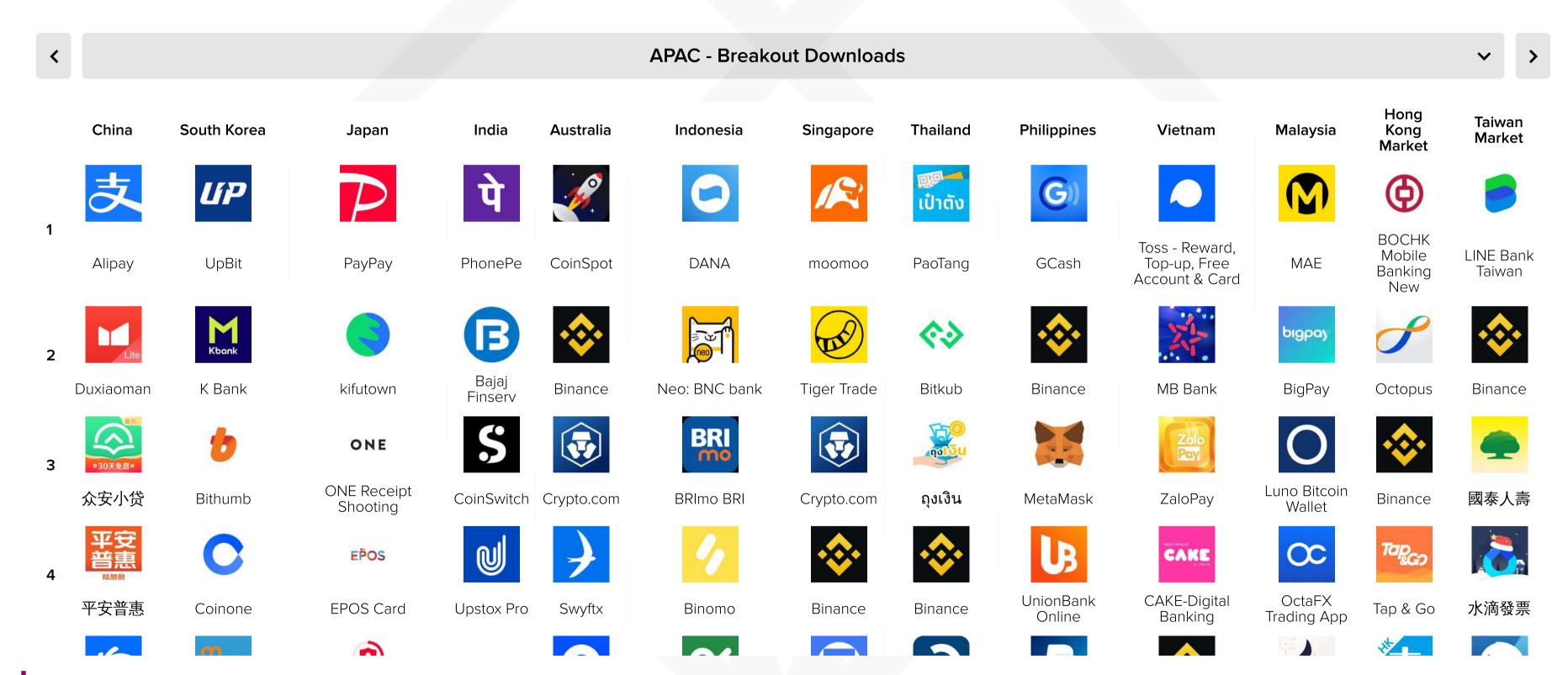
Monthly Engagement Among the Top 10 Cryptocurrency Apps by Worldwide Downloads in 2021



Source: data.ai Note: Downloads across iOS, Google Play; usage data on Android only. Average Sessions per User represents the average number of sessions per active user in a given month throughout 2021. Average Active Days represents the average days of use across all active users in a given month throughout 2021.

CoinDCX Investment was launched in Q4 2020 across iOS and Google Play Stores.

2021 Rankings by Market | Finance



Learn More: Uncover the Top Finance Apps by Change in Yearly Downloads

Source: data.ai Note: Combined iOS and Google Play; China is iOS only; MAU is across iPhones and Android phones; Market-level rankings; Breakout defined as Year-over-Year growth in Downloads or average MAU

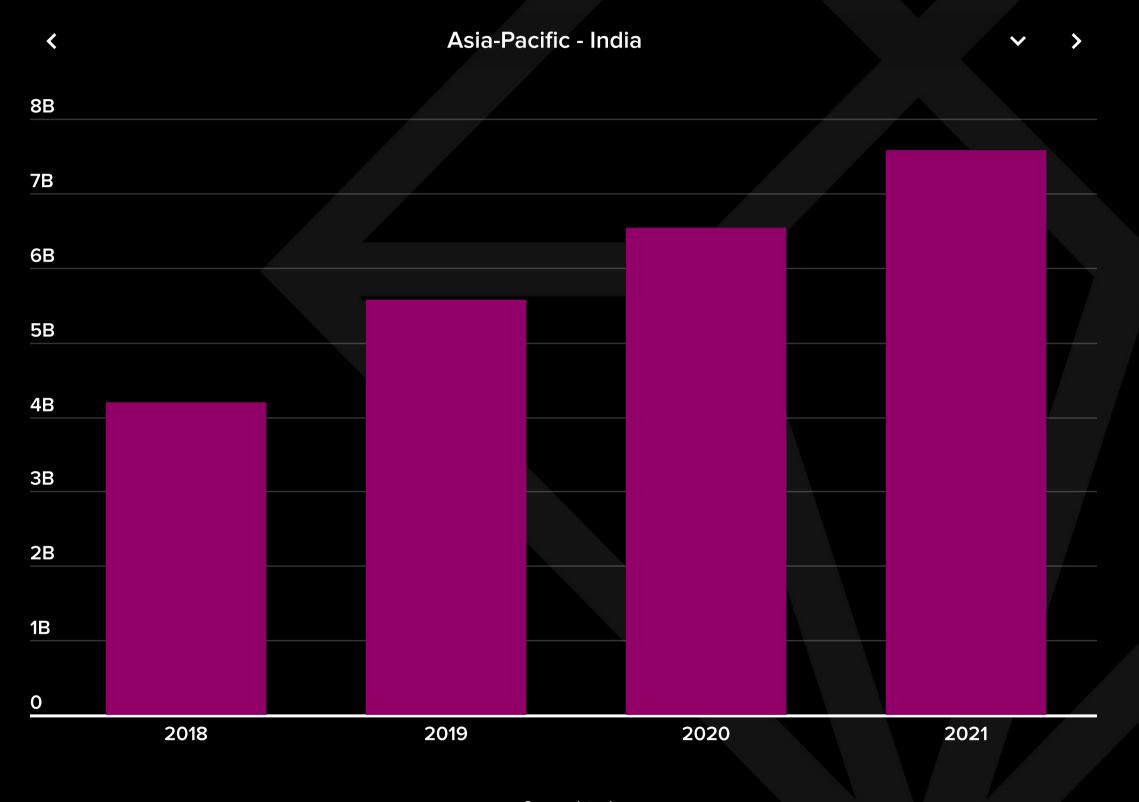
Retail

At ASOS, our vision is to be the go-to global destination for fashion loving 20-somethings - the place that our target consumers turn to for fashion. Our apps are critical in helping us realise that vision - enabling us to create a place that's inspiring, engaging and entertaining - with the technical agility, global scale, and resilience to continuously innovate and personalise our offering to become the fashion best friend of each of our customers.

Vijay Ram Head of Technology - Mobile Apps ASOS



Annual Hours Spent in Shopping Apps



RETAIL

Time in Shopping Apps Reached Over 7.57 Billion Hours Spent in India

Time spent in Shopping apps rose 16% year-over-year, on par with the global growth at 18%. The category saw strong movement in fast fashion, social shopping, and mobile-savvy big-box players.

Among the countries with the fastest growth were Indonesia, Singapore and Brazil at 52%, 46% and 45% growth YoY, respectively.

Mobile shopping habits catalyzed during COVID-19 have solidified. Monitor peak shopping periods in data.ai.

Mobile Shoppers in India Seek Domestic: Downloads Share of India-HQ'd Shopping Apps Grew by 8%

APAC-HQ'd shopping apps have grown international downloads, shifting market share to non-native-based brands in many regions.

For example, in Brazil, Overseas-HQ'd apps dominated 52% of all shopping app downloads in 2021, an increase in share of 11% YoY.

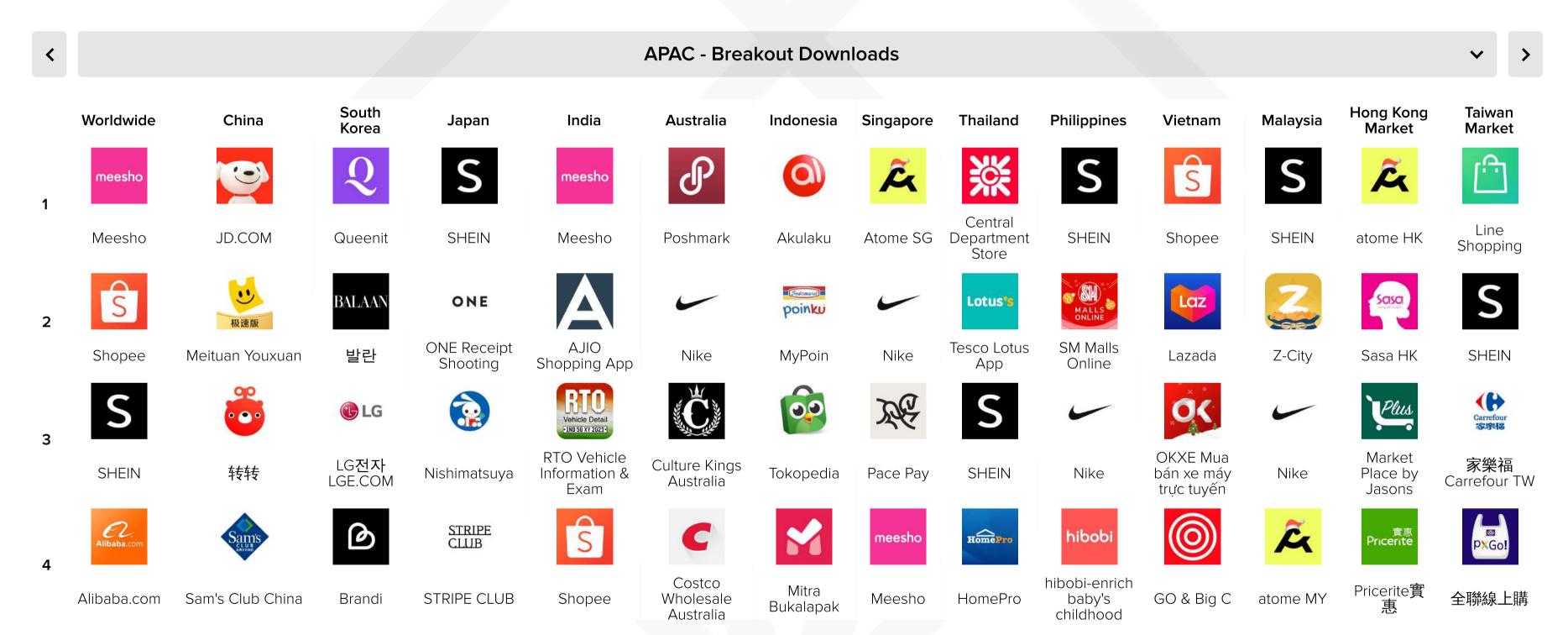
India's mobile shopping market was dominated by non-domestic brands, with 58% of downloads coming from Overseas-HQ'd apps. However, India was one of the few countries to see growth among domestic-based brands — IN-based shopping apps reached 42% share of downloads in 2021, up 8% compared to 2020.

Retail brands are losing share to non-local companies, most notably in regions across AMER as shoppers turn to overseas-HQ'd Shopping apps. Evaluate which of the top companies are driving shifts in market share.

Going Global: Share of Shopping Downloads by Overseas-HQ'd Publishers



2021 Rankings by Market | Shopping

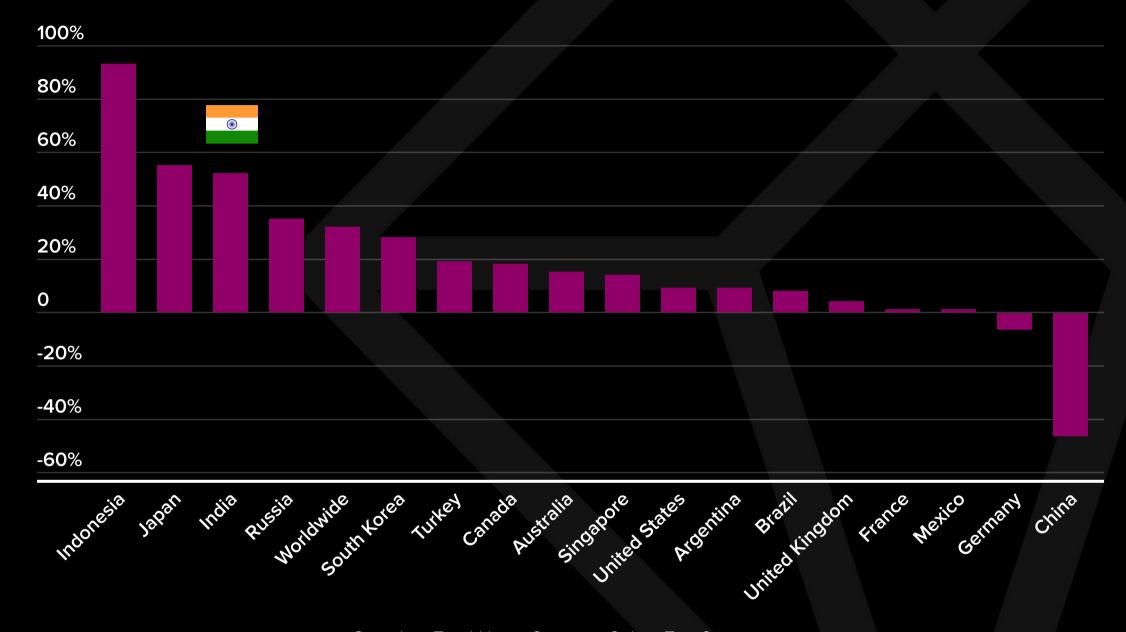


Learn More: Uncover the Top Shopping Apps by Change in Yearly Downloads

Source: data.ai. Note: Combined iOS and Google Play; China is iOS only; MAU is across iPhones and Android phones; Market-level rankings; Breakout defined as Year-over-Year growth in Downloads or average MAU.

Video Streaming

Growth in Total Hours Spent Streaming 2021 vs 2019



Growth in Total Hours Spent on Select Top Streaming
Apps in India, 2021 vs 2020





Hotstar: +18%

ZEE5: +45%

Source: data.ai

Note: Time spent on Android phones among top 20 video streaming apps by time spent; worldwide excludes China

VIDEO STREAMING

Total Hours Spent Watching Video Streaming Apps Grew 52% in India Since Pre-Pandemic Levels

Most countries in Asia saw growth in time spent among the top 20 video streaming apps, continuing the momentum first seen during the initial stage of the global pandemic.

Indonesia, Japan, and India saw the highest increases in total hours spent across their video streaming apps in 2021, with <u>YouTube</u> being the primary driver of growth.

Despite access to bigger screens, consumers are still watching content on mobile. Competition is heating up in the space and exclusive content is a way of drawing in new viewers. Keep track of the rapidly changing industry in data.ai.

VIDEO STREAMING

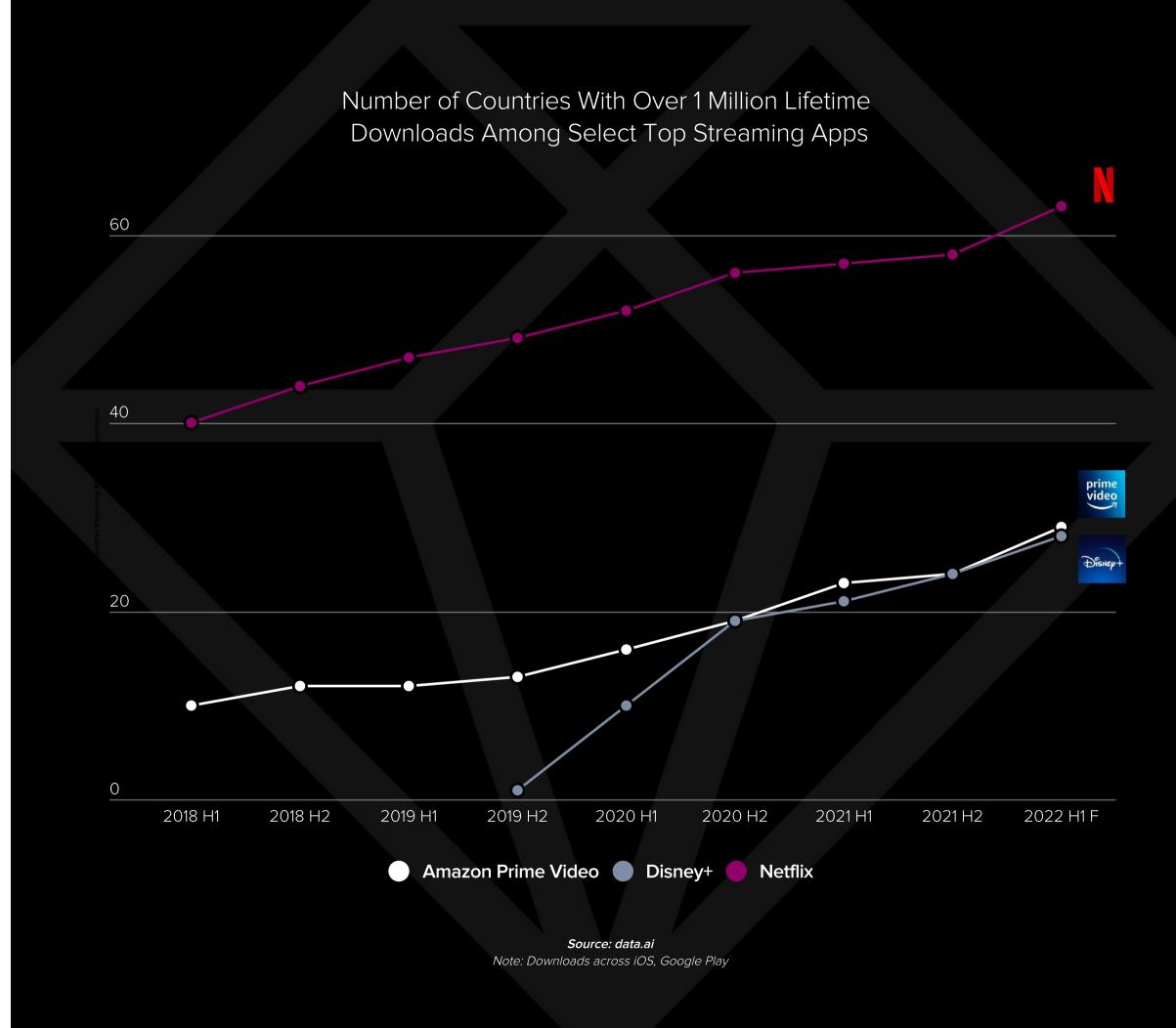
Global Expansion Heats Up: Netflix Set to Surpass 1 Million Downloads in Over 60 Countries in 2022

<u>Netflix</u> has the largest global footprint among video streaming platforms and a robust audience in each: with over 1 million local downloads in 60+ countries.

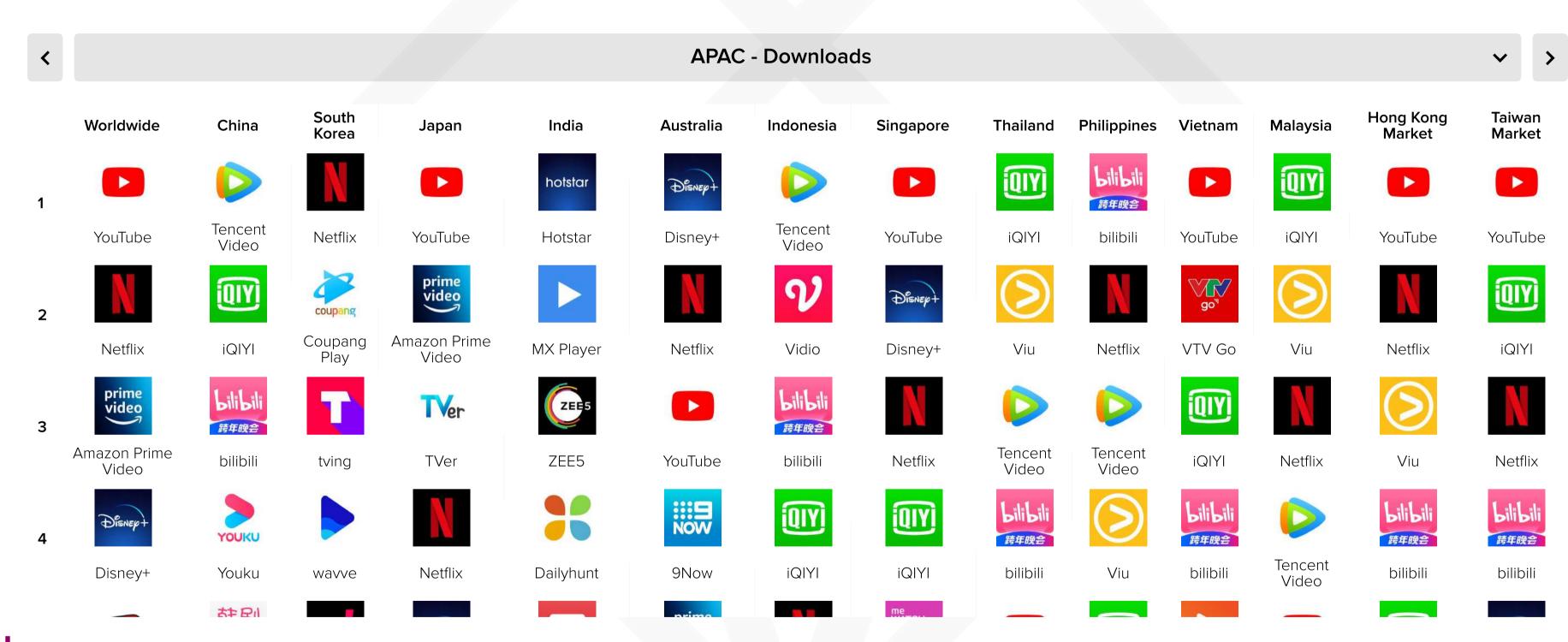
<u>Disney+</u> rivals <u>Amazon Prime Video's</u> global footprint, despite launching 7 years later on mobile. In India, however, Prime Video was the highest-ranking US-HQ'd competitor, ranking #6 by downloads in 2021.

Exclusive content, strategically timed releases, and overseas expansion are fuelling growth in the video streaming sector — a mobile-first strategy is needed to succeed.

<u>Track lifetime downloads and monitor the global</u> <u>strategies</u> among top players in your competitive set.



2021 Rankings by Market | Video Streaming



Learn More: Uncover the <u>Top Video Streaming Apps by Downloads</u>

Source: data.ai Note: Combined iOS and Google Play; China is iOS only; Market-level rankings. Video Streaming Apps custom categorized from the Entertainment, Photo & Video, News, Sports, News & Magazines and Video Editors & Players categories across iOS and Google Play

Food & Drink

From grocery, alcohol, and convenience to morning coffee runs, we're focused on making Uber Eats reliable, flexible and easy to use. Trusted data points from sources like data.ai help us to measure that success and refine our mobile strategy over time.

Pierre Dimitri Gore-Coty

SVP of Delivery

Uber



FOOD & DRINK

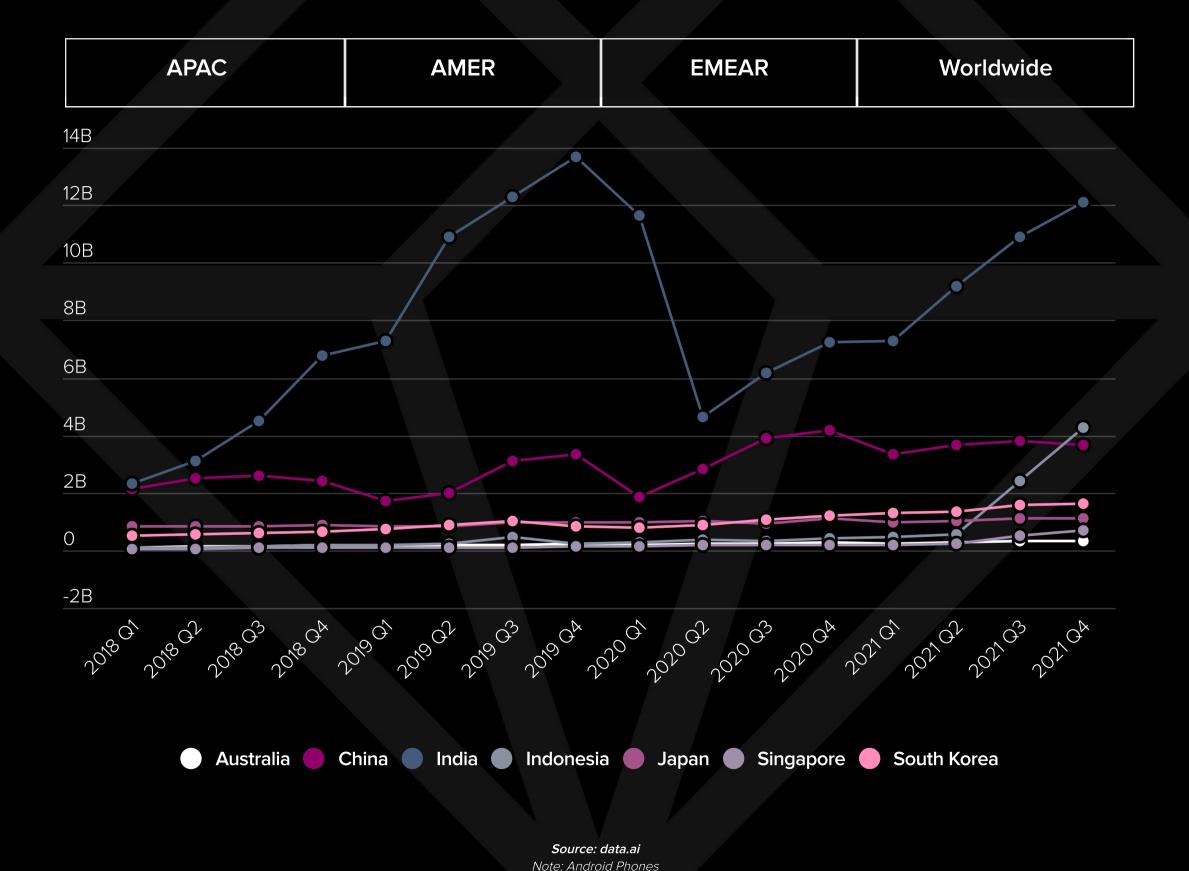
Sessions in Food & Drink Apps Reached 12.1 Billion, Highest Since 2019

The pandemic expedited usage of Food & Drink apps across the world. Despite concerns for a slowdown following regional re-openings, an increase in both supply and in demand pushed market growth further than ever.

After facing a decline in user sessions in India in Q2 2020 due to logistics issues arising from the pandemic, India bounced back to 12.1 billion sessions in Q4 2021. Overall, 2021 showed strong growth vs. 2020, with users spending 33% more sessions YoY in Food & Drink apps.

Fostered by new players, partnerships, delivery, quickfulfilment, user demand continued to increase throughout the year, with users spending more sessions than ever in Q4. Dive deeper in data.ai's <u>market level report</u> to see how downloads and sessions stack up.

Quarterly Sessions Spent in Food & Drink Apps Growth Over Time



Top Keywords by Search Volume Among Food & Drinks Apps

India

domino's pizza india

ZOMATO

SWIESV food delivery

mc donalds

mc donalds

mc donalds

mc donalds

licious

dineout
grofers

swiggy food delivery

FOOD DELIVERY

QSR & FAST-CASUAL

GENERIC KEYWORDS

DISCOVERY / REWARDS / RECIPES

Source: data.ai Note: Top 10 keywords searched on iPhone within each region, ranked by average est. keyword search volume in 2021. Top keywords in India, Brazil, and Mexico reflect top keywords on Android Devices.

FOOD & DRINK

Established Markets: QSR Terms & Delivery Dominated the Top Searches in 2021

In established markets, users tend to search for branded keywords. In emerging markets for mobile Food & Drink, brand awareness remains an opportunity.

For many categories on mobile, branded keywords top the charts by app store search traffic. In this case, what users wanted, they searched for. Food delivery terms made up 6 of the top 10 top searched terms in India.

Generic keyword opportunities within ASO surfaced in many other markets — in 2021, user searches for "food", "delivery" and "coffee" were on the rise. "Food" was a top 5 keyword in several regions, ranking as the #1 searched keyword in Canada and Australia, and #2 in Turkey.

<u>Use the Keyword Search report to understand where competitors</u> <u>stack up for the top organic keywords in each country.</u>

A Recent Acquisitions Drive Rapid Growth for 10-Minute Delivery

In 2020, consumers wanted delivery. In 2021, consumers wanted delivery...now. Hyper-fast grocery delivery apps grew at speeds faster than their delivery times. Competition increases for India-based apps like Zepto as overseas players seek to grow their global footprint.

Turkish delivery company <u>Getir</u> hit nearly 7 million downloads worldwide in Q4 2021, up 105% from Q1 - driven by international expansion. After making their <u>first acquisition</u> in July to expand into Spain and Italy, <u>Getir acquired UK-based rival Weezy</u> in November just weeks before starting operations in the US — wrapping up 2021 with services in <u>Chicago, NYC, and Boston</u>.

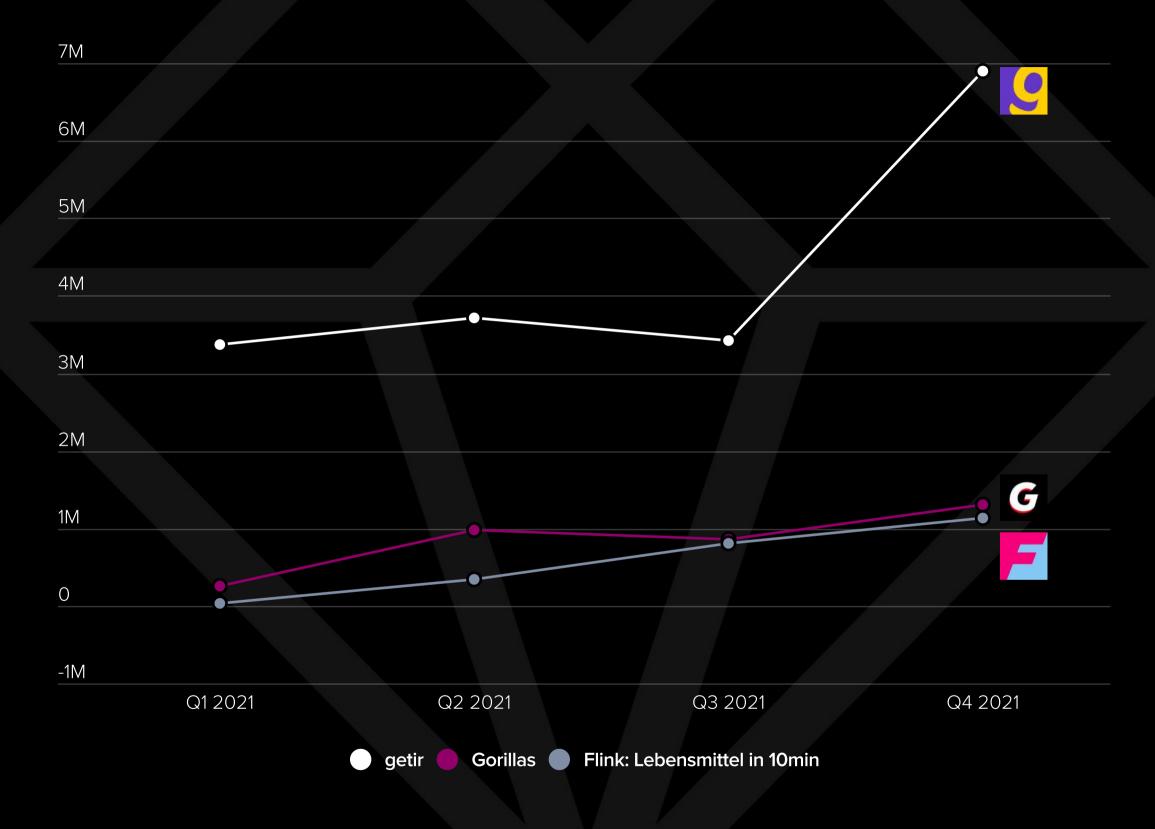
DE-based *Gorillas* and *Flink* are among several rapidly growing players both reaching over 1 million global downloads in Q4.

Dive into emerging trends and players even further.

Use data.ai to help <u>uncover new and emerging</u>

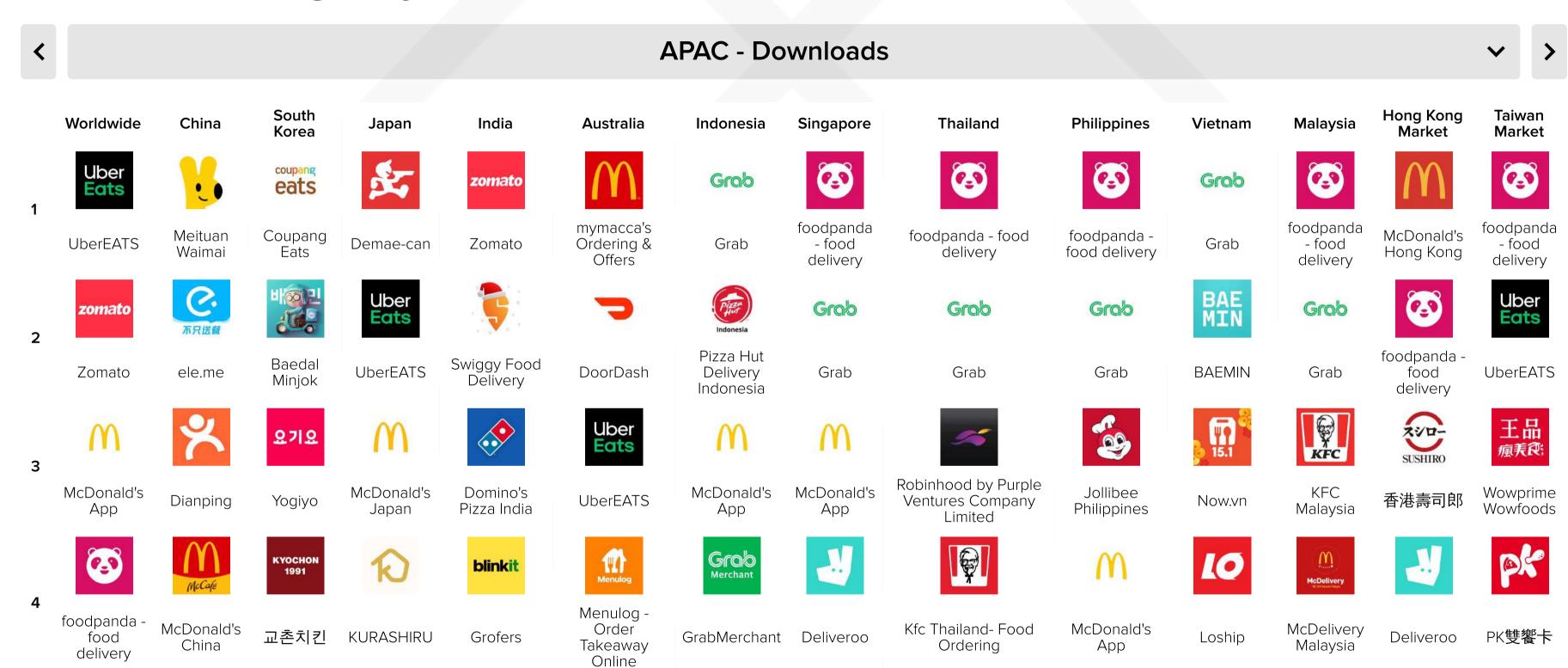
<u>competitors</u> driving global growth within rapid delivery.





Source: data.ai Note: iOS and Google Play combined; Select top delivery apps marketed as having "10-minute delivery"

2021 Rankings by Market | Food & Drink



Learn More: Uncover the <u>Top Food & Drink Apps by Yearly Downloads</u>

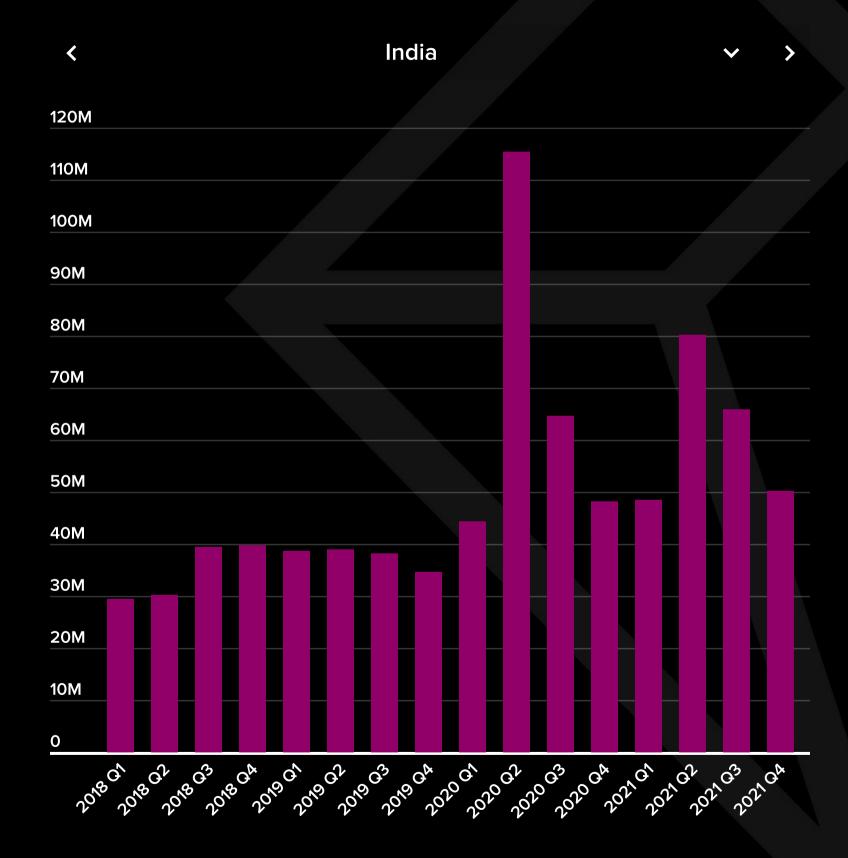
Health & Fitness

In 2021, mobile apps became more integrated in our daily lives as people aimed to enrich their lives while staying at home amidst Covid-19. We believe this trend will continue as mobile apps become more tailored to meet individual consumer needs. In the healthcare domain, we believe that more people will be using smartphones, tablets, and wearable devices even more for health management, diagnosis, and treatment.

Takuma Ishibashi Executive Director, Eisai Co., Ltd..



Quarterly Health and Fitness App Downloads by Country



Source: data.ai
Note: Downloads across iOS, Google Play; China is iOS only

HEALTH & FITNESS

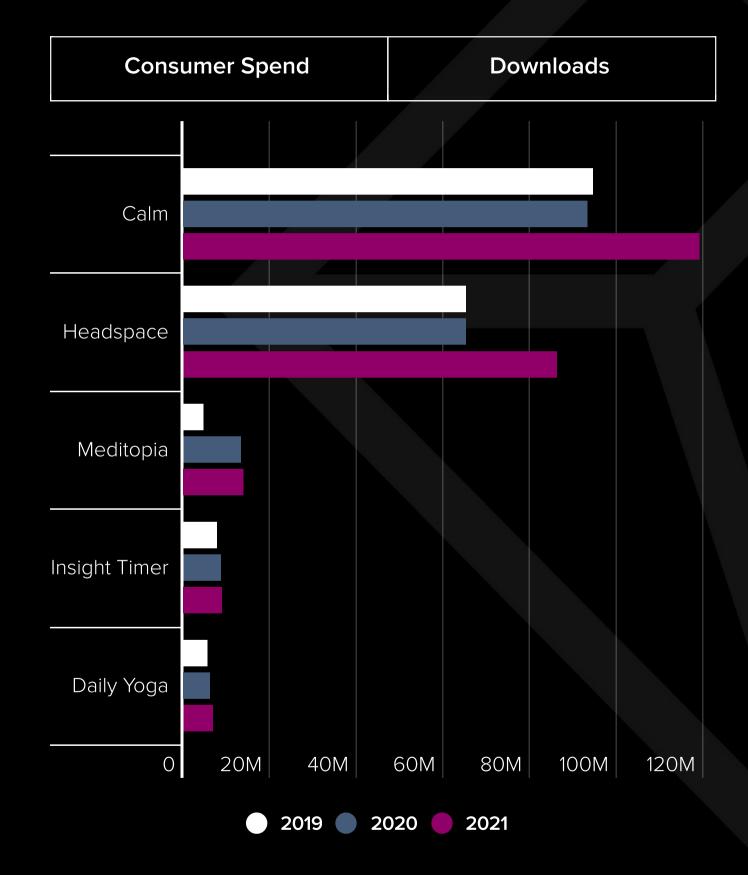
Health & Fitness App Downloads Up 63% in 2021 vs 2-YA in India as Health & Wellbeing Continue to be Top of Mind 2 Years Into the Pandemic

Worldwide downloads of Health and Fitness apps remained high despite seeing a slight softening from a pandemic-induced high in 2020 for most countries. Total downloads in India reached above 245M in 2021, as Meditation, fitness and mental health apps saw sustained popularity YoY.

In India, Health & Fitness apps reached over 80M downloads in Q2 2021 — the second-highest quarter since 2018 — after the peak of 115M downloads in Q2 2020.

Mobile is a pulse check of consumer sentiment. Health, fitness and mental wellbeing are top of mind for consumers. <u>Monitor market shifts in data.ai.</u>

Consumer Spend & Downloads Among Top Most Downloaded Meditation Apps Worldwide



Source: data.ai

Note: Revenue and Downloads across iOS, Google Play

HEALTH & FITNESS

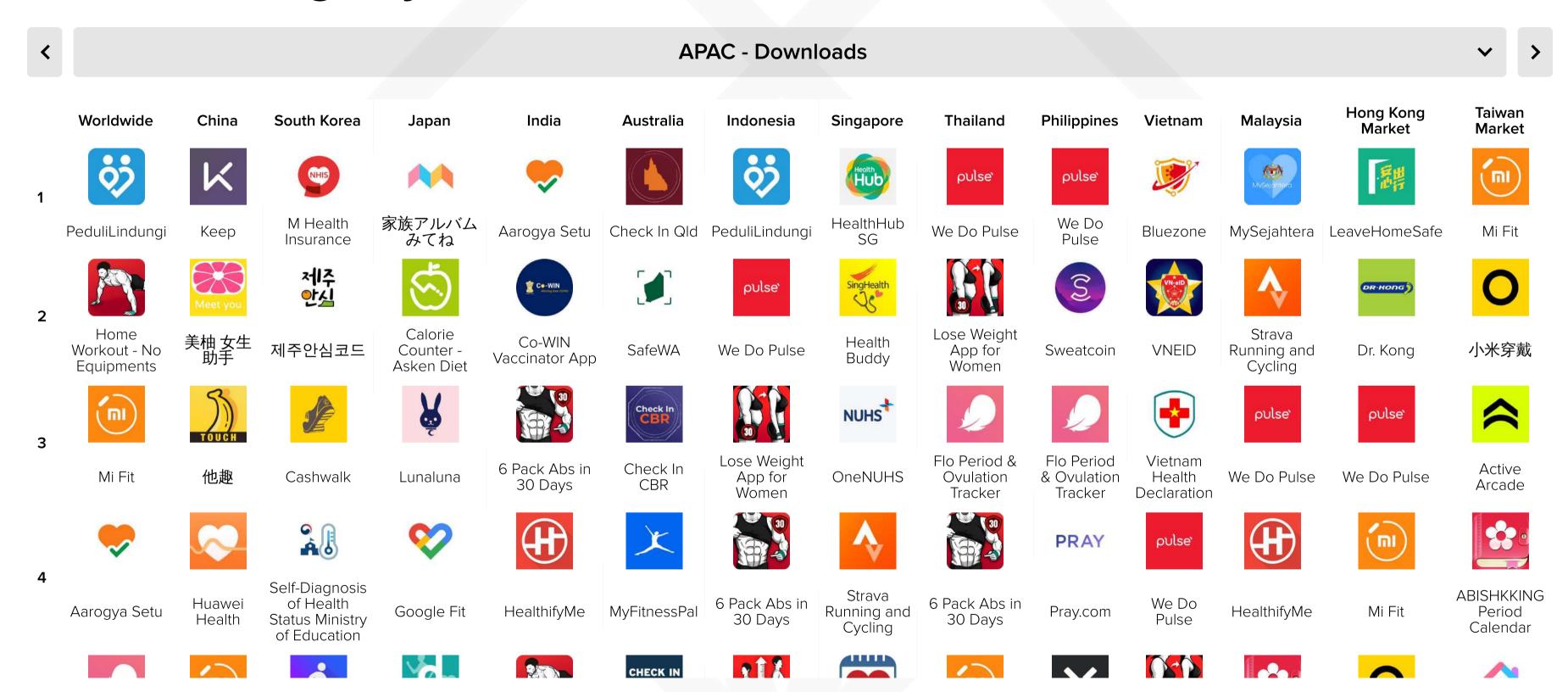
The Top 5 Downloaded Meditation Apps Saw 25% Growth YoY in Consumer Spend Following Record Downloads in 2020

Meditation apps are becoming a fast-growing subcategory within Health and Fitness apps, accelerated by the global pandemic at the start of 2020 that has since forced many to remain indoors as lockdowns become the sudden norm.

<u>Calm</u> remains the most downloaded meditation app both in 2020 and 2021 worldwide, with <u>Headspace</u> and <u>Meditopia</u> rounding out the top 3. Although downloads softened in 2021, both <u>Calm</u> and <u>Headspace</u> saw total time spent in their Google Play apps increase YoY by 12% and 15%, respectively.

More time spent in app can translate to higher revenue despite declines in app downloads. <u>Compare time spent among meditation apps to see how it correlates with revenue.</u>

2021 Rankings by Market | Health & Fitness



Learn More: Uncover the Top Health & Fitness Apps by Yearly Downloads

Social

Mobile augmented reality experiences are changing the way we live, from how we communicate and have fun to how we shop for and discover products. With over 6 billion AR interactions on Snapchat every day, these aren't distant hopes; it's the new reality. Thanks to the power of mobile, this cutting edge technology is at the fingertips of everyone with a cell phone right now, and as we look ahead to 2022, AR will continue to evolve and grow in utility for both consumers and businesses.

Chip Kanne Head of North America Emerging Sales Snap



SOCIAL

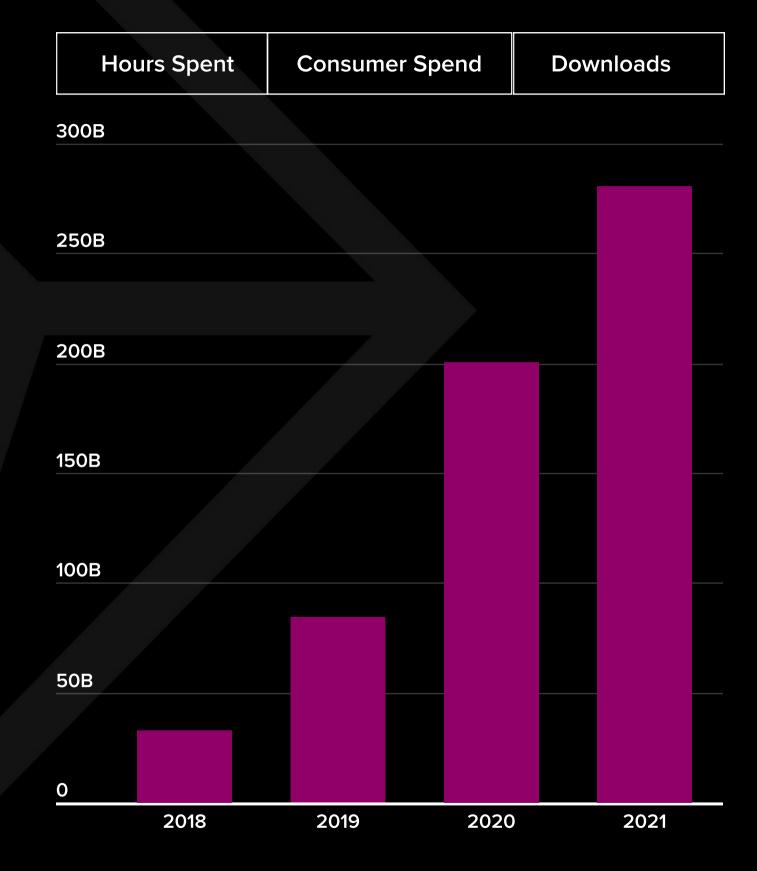
All Eyes on Live Streaming: Time Spent Grew 9x in 4 Years — Cultivating the Deepest Social Engagement

In 2021, time spent in the top 25 live streaming apps outpaced the social market overall year over year by a factor of 9 - YoY growth of 40% compared to all social apps at 5%.

<u>Live streaming apps are also driving consumer spend in Social apps</u> as consumers 'tip' their favorite content creators — with global consumer spend in the top 25 live streaming apps in 2021 growing 6.5x from 2018 and 55% YoY.

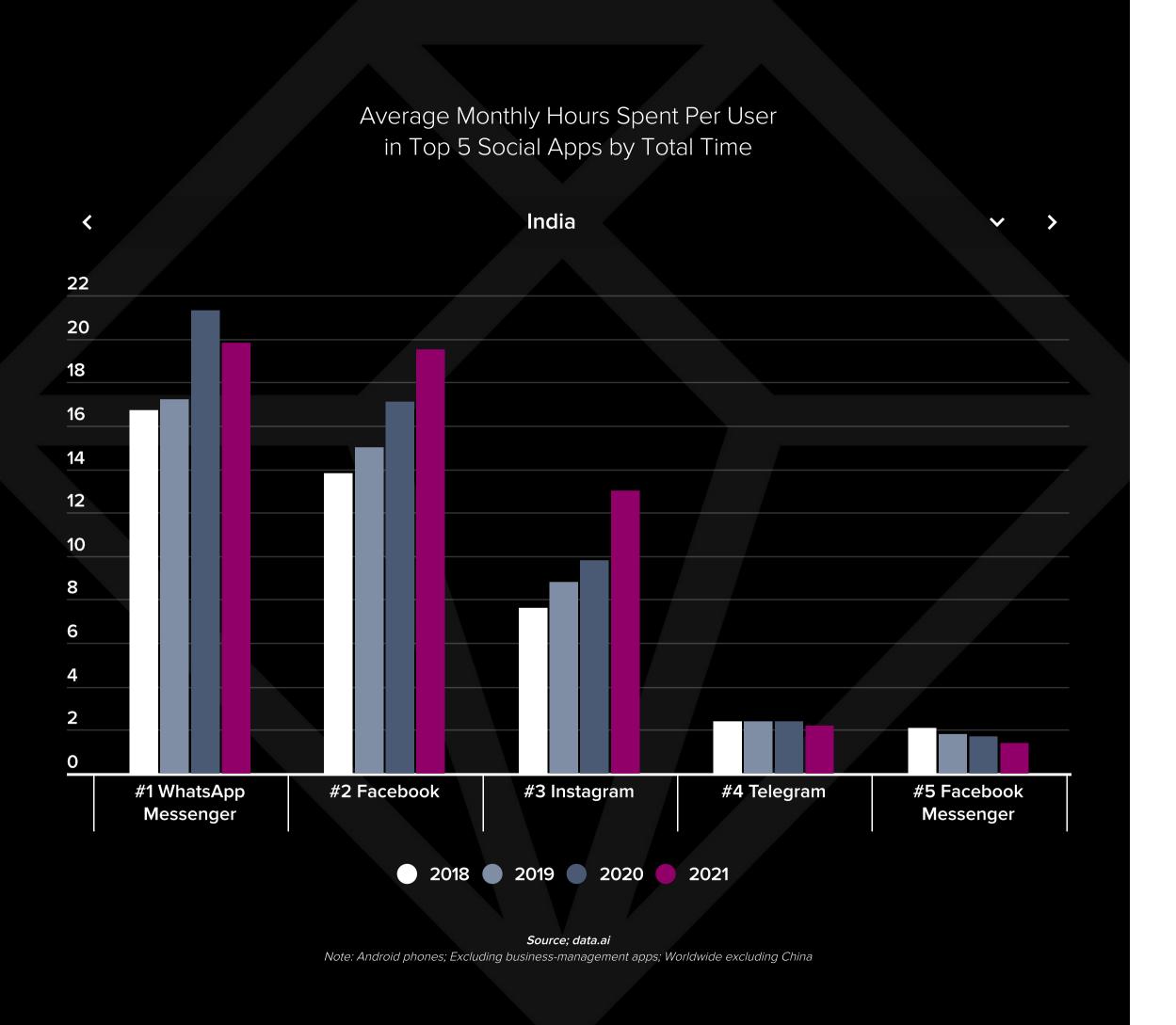
Social apps are the linchpin to connection in our mobile-first world. Live streaming apps are changing the game — providing opportunities for live shopping, content creator compensation, creative empowerment and the rise of authenticity in social apps. Keep on top of the latest social trends in data.ai.

Global Growth of Live Streaming Apps Among Top 25 Apps



Source: data.ai Note: Downloads and Consumer Spend across iOS, Google Play; China is iOS only.

Time spent is Android phones only



SOCIAL

TikTok's Rocket Ship Growth: YoY Growth Rates As High As 75%

<u>TikTok</u> was a standout winner in per user engagement among the top 5 social apps commanding the most time spent in 2021.

It is notable that *TikTok* has seen the greatest in depth of engagement over 4 years and had a standout year in 2021, off the back of an already record-breaking 2020.

Meta properties in India benefited from the *TikTok* ban in 2021, with engagement deepening in both *Facebook* and *Instagram* by 15% and 35% respectively.

Explore evolving engagement patterns, including average time spent, demographic base and cross-app usage of top players to monitor how they are carving out mindshare in 2022 and beyond.

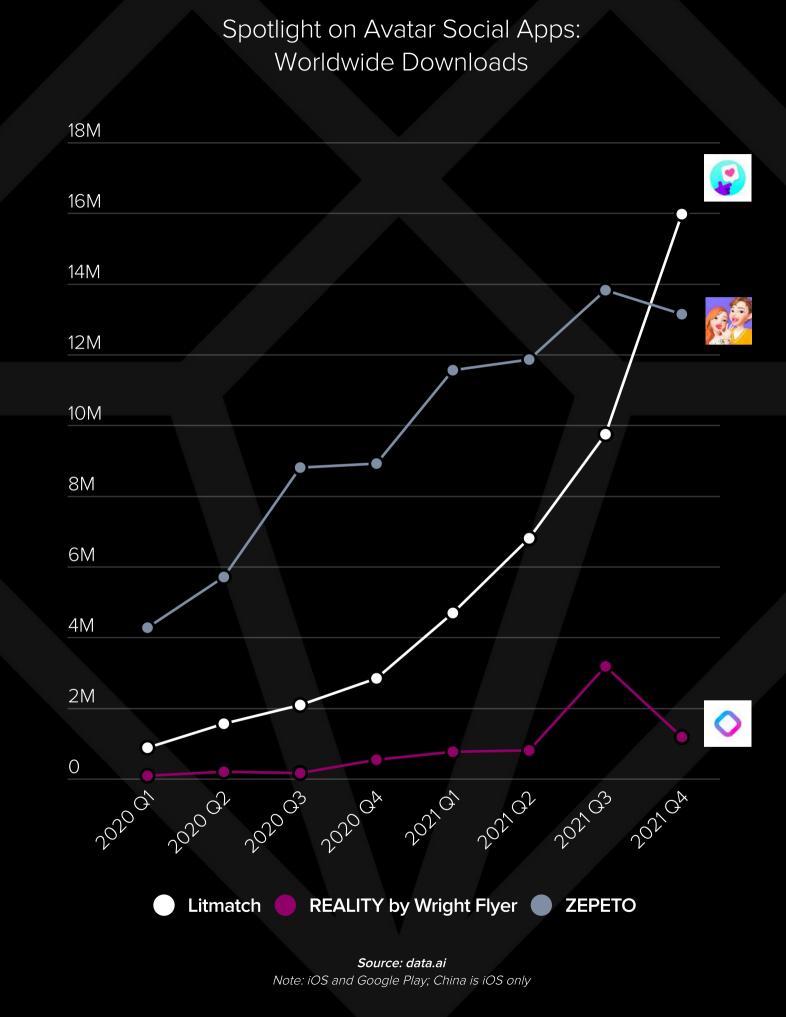
SOCIAL

Emerging Trend: Avatar Apps Tap Into Increasing Demand for Metaverses: Social, User-Generated Content, Creativity

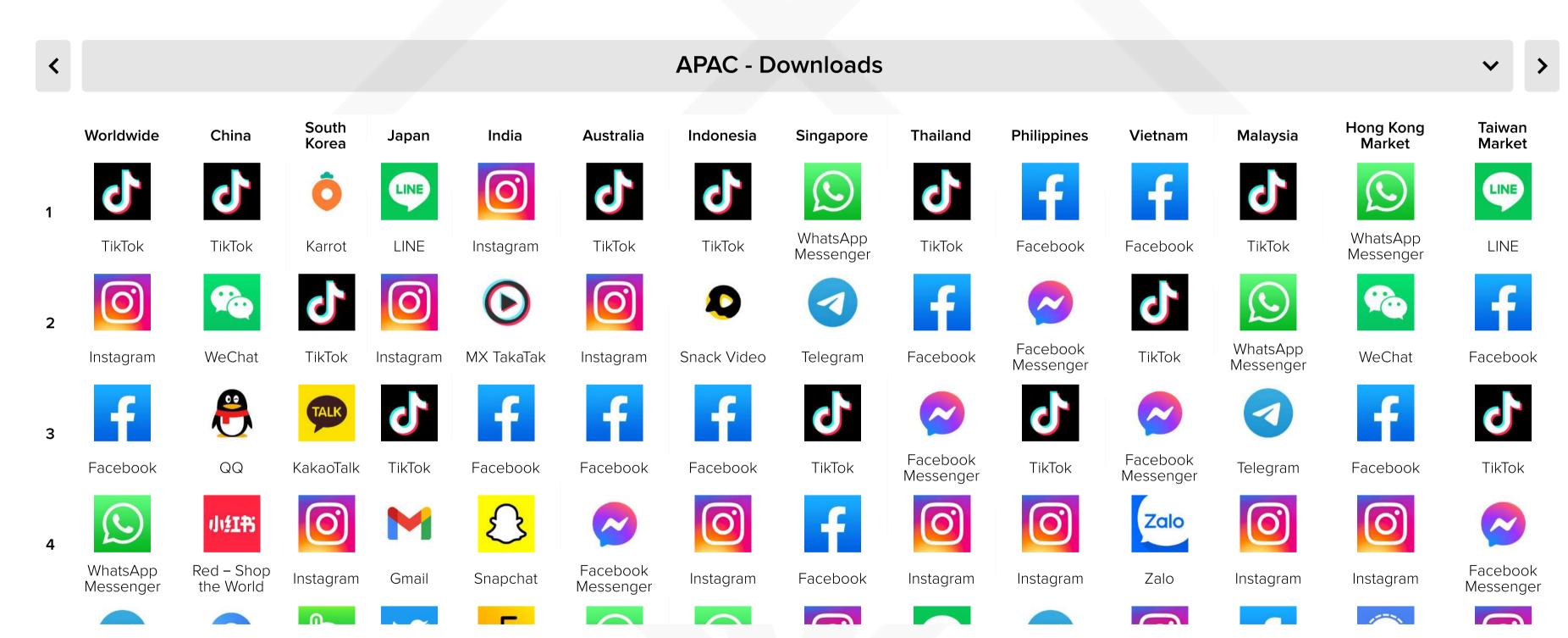
Demand for avatar social apps has grown amidst interest in metaverses in 2021, particularly H2.

Among the 3 select avatar social apps including <u>Litmatch</u>, <u>REALITY by</u> <u>Wright Flyer</u> and <u>ZEPETO</u>, downloads grew 160% YoY. <u>Litmatch</u> emphasizes matching with friends and using a simple avatar — highlighting the overlap of growing demand for avatar-based apps, even without a metaverse component — 2 converging trends. <u>Litmatch</u> saw downloads grow 405% YoY amidst surging demand. Among these players, ZEPETO was the top app in India, with nearly 5 million downloads on Android Phone in 2021.

Creativity, creation and connection are at the core of growing interests in 2022. Mobile is the pulse of the cultural zeitgeist. Monitor rising stars to be among the first to capture shifts in these trends.



2021 Rankings by Market | Social



Learn More: Uncover the **Top Social Apps by Yearly Downloads**

Source: data.ai Note: Combined iOS and Google Play; China is iOS only; Market-level rankings; Excluding dating apps

Travel

DiDi as a global leader in ride-hailing services, continues to grow rapidly in international markets in providing affordable ride-hailing and food delivery services in 2021. data.ai is an integral analytics platform for our marketing planning process. With its trusted mobile insights covering the app landscape we are better equipped to optimize our user acquisition, retention and engagement programs. It also helps us prioritize our roadmap and plan new markets entry.

Ajay Kaul Global Performance Marketing Head DiDi



Downloads of Travel Apps Rebound by Nearly 20% in India in H2 2021

The second half of 2021 showed positive trends for travel on mobile. H2 2021 downloads hit 1.95 billion worldwide, nearing pre-pandemic levels of 2.08 billion in H2 2019.

In India, Travel app downloads hit 259.5M in H2 2021, up from 221.7M downloads in the second half of 2020.

Several countries in Europe saw strong rebound rates in H2 2021 after loosening shelter-in-place restrictions and travel regulations. In fact, travel growth increased so steeply over the peak summer season that downloads in Germany, Turkey, and India were up 7%, 22%, and 5% compared to H2 2019, respectively.

<u>Identify the top apps driving growth</u> within the Travel & Navigation market.

Monthly Downloads of Travel & Navigation Apps



Source: data.ai

Note: iOS and Google Play; China is iOS only

TRAVEL

Drivers vs. Riders: Rideshare Supply & Demand Dynamics Differ Across Regions

Demand for rideshare apps has returned to normal levels, even higher in some regions. In the US, <u>Uber</u> riders spent nearly 212 million sessions in the app in December 2021.

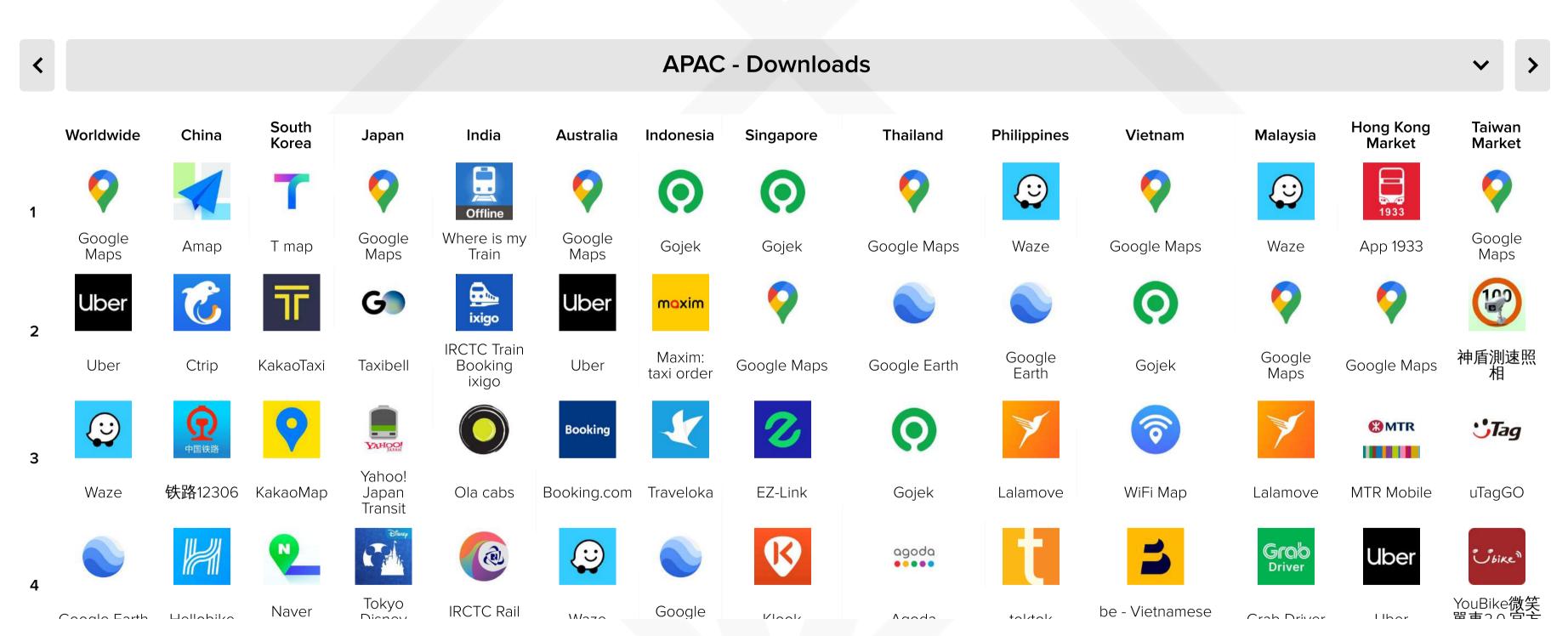
Riders spend nearly 3 sessions for every 1 driver session on <u>Ola Cabs</u> in India and on <u>Lyft</u> in the US, showing demand for on-demand transport. In the UK, "supply" of available, active drivers was nearly equal with demand from riders in 2021.

Marketplaces face the balancing act of supply and demand in real time. Monitor mobile data to keep track of market movement.

Monthly Sessions Spent in Select Rideshare Apps "Driver" vs. "Rider" Apps on Android



2021 Rankings by Market | Travel



Learn More: Uncover the <u>Top Travel Apps by Yearly Downloads</u>

Source: data.ai Note: Combined iOS and Google Play; China is iOS only; Market-level rankings

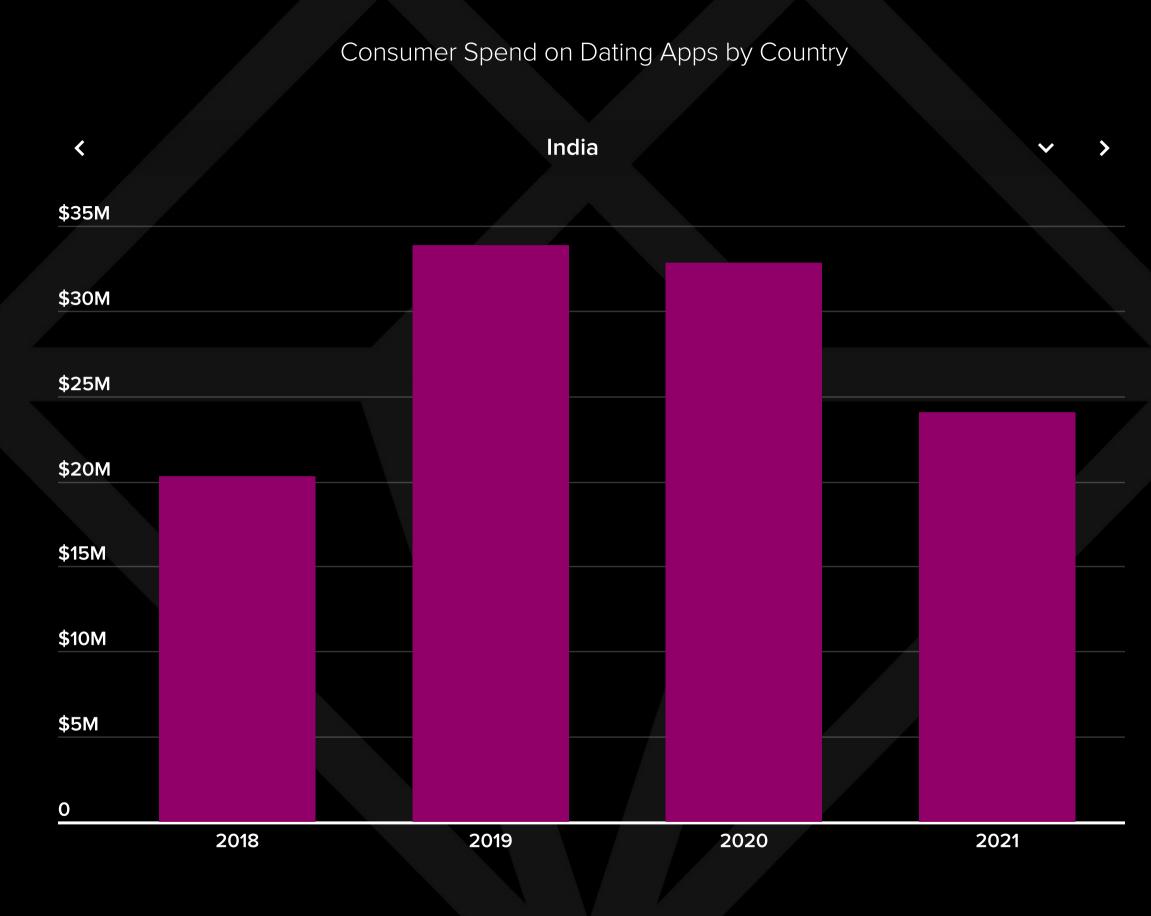
Dating

Worldwide Consumer Spend on Dating Apps Surged Past \$4B in 2021, With \$24M Coming From India

The unabated growth in consumer spend was primarily driven by the US, Japan, the UK and China, the four largest markets in 2021.

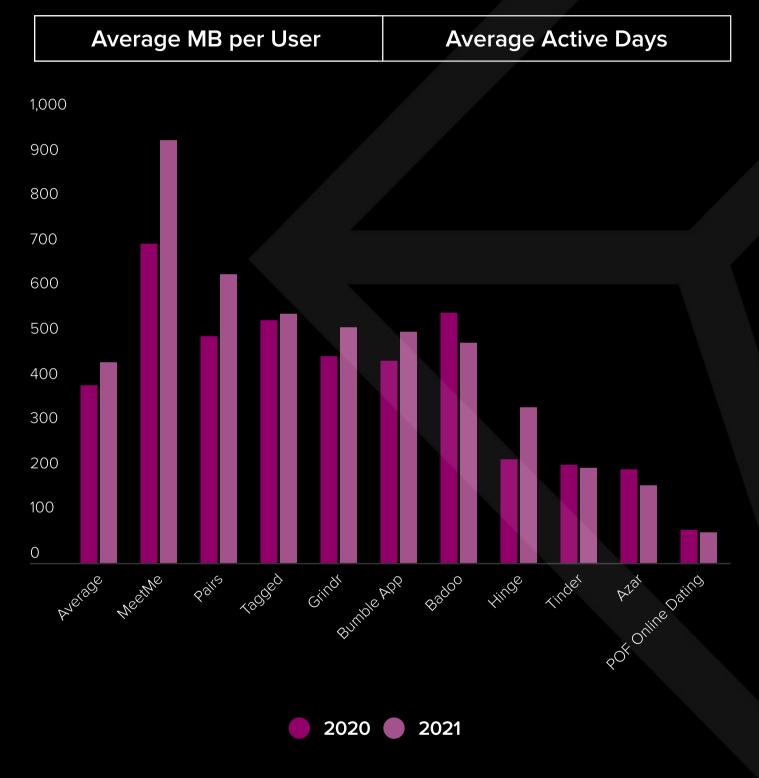
For the US, Germany, Indonesia, and Japan, consumer spend more than doubled since 2018. Despite its population size, India is one region that saw declining consumer spend on dating apps, although it is still up 18% since 2018. India is a unique market where, although users of dating apps may not be spending heavily, more than 75% of Indian daters have started going on hobby dates and more than 50% are thinking of dating as a way to explore. Mobile is perfectly positioned to capture budding demand in this sector.

It is important for dating app publishers to know their primary KPIs early, whether it is maximizing user acquisition or revenue. See how dating apps metrics changed year-over-year in data.ai.



Source: data.ai
Note: Consumer Spend across iOS, Google Play

Monthly Avg Active Days vs Data Usage per User Among Top 10 Dating Apps Worldwide by Consumer Spend in 2021



Source: data.ai Note: Android phones only; Average active days per month; "Average Sessions per User represents the average number of sessions per active user in a given month throughout year. Average Active Days represents the average days of use across all active users in a given month throughout year.

DATING

Among the Top 10 Dating Apps Worldwide by Consumer Spend, Most Apps Saw an Increase in Usage Two Years Into the Pandemic

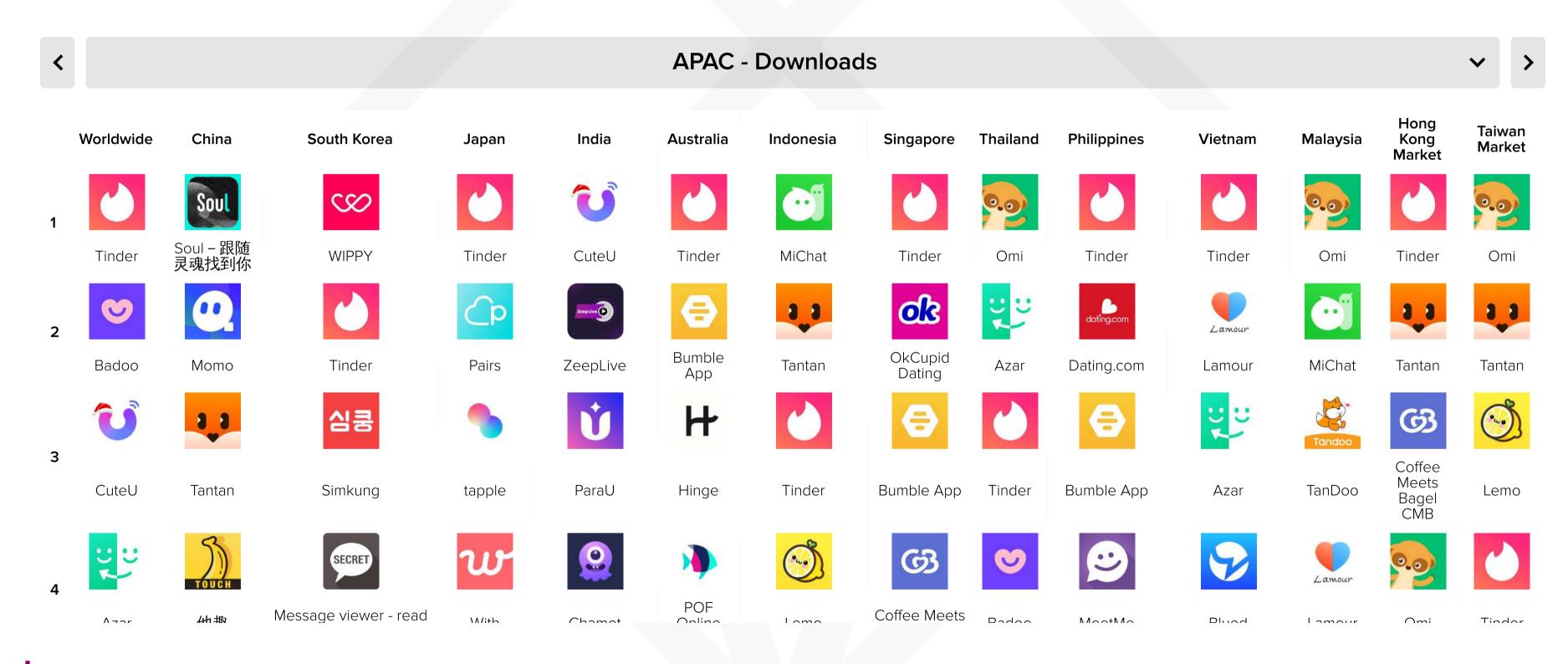
The top grossing dating apps also tended to have high average MB per user, signalling the rising popularity of using photos and videos to communicate. However, higher usage does not always correlate with higher consumer spend.

<u>Tinder</u> saw a slight decline in average MB per user but saw a record-breaking \$1.35B in consumer spend worldwide in 2021, maintaining its lead thanks to a 35% increase YoY.

Tinder's pricing model works well among its large user base, with its free-to-use model that charges users for extra features such as Boosts and Super Likes included in in-app subscriptions and purchases. It even <u>dynamically adjusts its price based on the user's age</u> - a proxy for demand.

Understanding each dating app's target audience and user behavior is crucial to its success. <u>Explore engagement and monetization strategies in data.ai.</u>

2021 Rankings by Market | Dating



Learn More: Uncover the <u>Top Dating Apps by Yearly Downloads</u>

Source: data.ai Note: Combined iOS and Google Play; China is iOS only; Market-level rankings

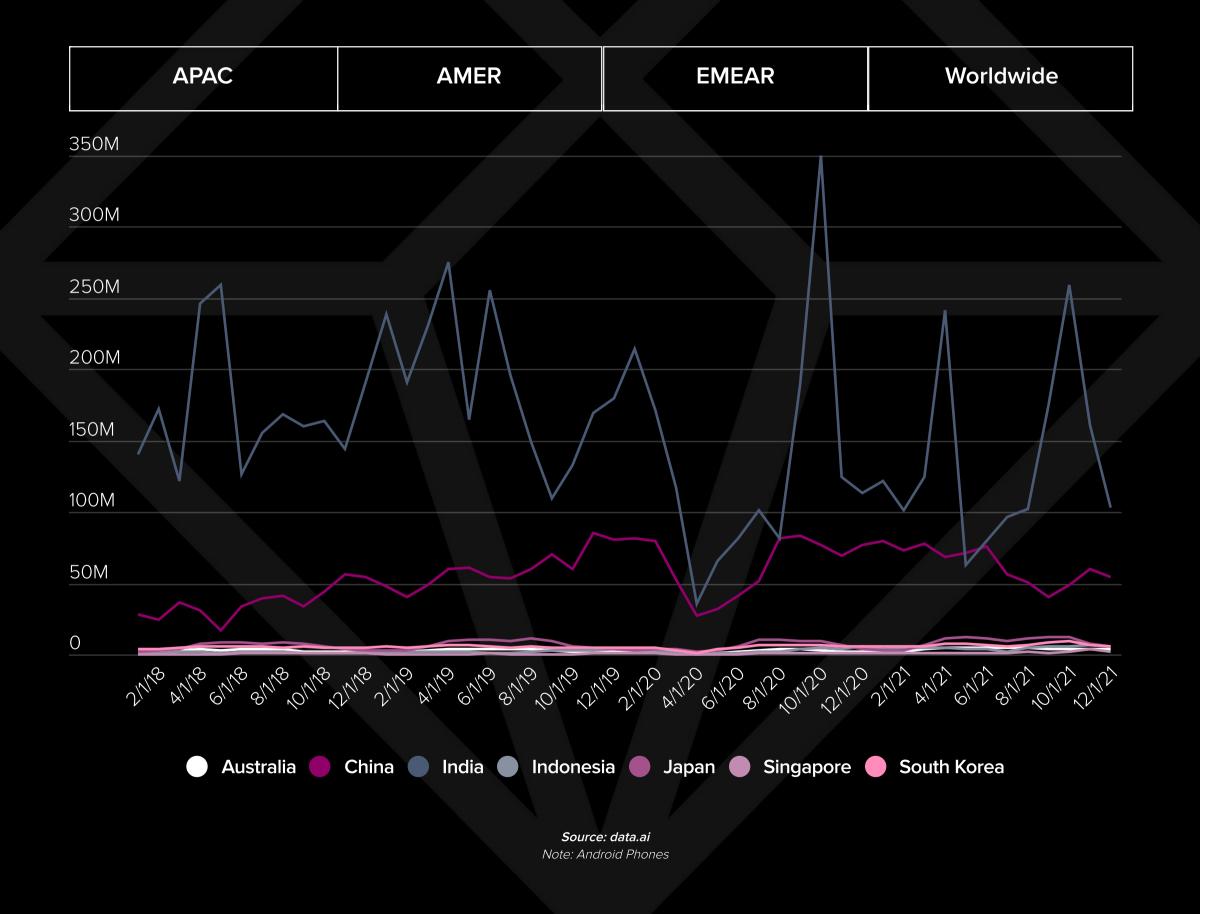
Other Industries Embracing Mobile

data.ai continues to be one of our most trusted tools and partners, helping us keep an eye on market trends and competitive benchmarks. Marketability from the game concept stage is a pivotal strategic pillar at Rovio, so we continue to work closely with data.ai on new features that help us in identifying market opportunities.

Luis de La Camara VP Marketing Rovio



Hours Spent in Sports Apps



SPORTS

Sports Rebounded in 2021: Tokyo Olympics & Return of Live Sports Drives Mobile Streaming

Hungry for new content, eyes returned to sports in 2021. The UEFA Euro Tournament, the return of NFL and fantasy football in the US and the Cricket World Cup in APAC were in high demand following a year with delays and limitations on live sports. In India, cricket is the driver of the big peaks in user hours.

Globally time spent in sports apps rebounded 30% from 2020 back to 2019's pre-pandemic levels. Countries seeing the greatest rebounds included: Singapore (+125%), Canada (+125%), Russia (+120%), Argentina (+105%), Indonesia (+90%), Australia (+85%) and the US (+70%). In India, time spent was relatively flat vs 2020.

Monitor shifts in seasonality with data.ai.

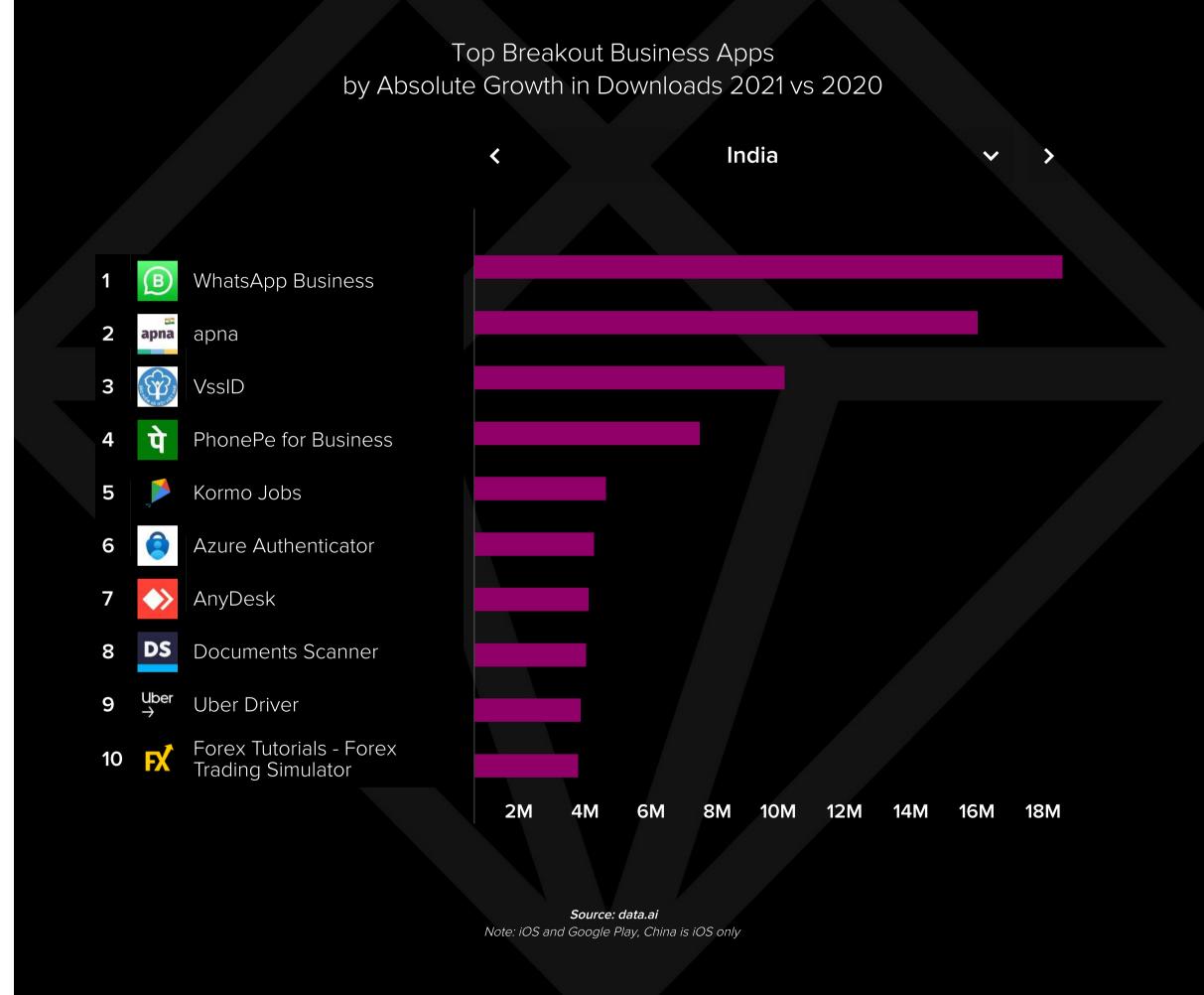
Benchmark your app against market trends
to see if you are in-line with, out-pacing or falling
behind the market.

The Great Resignation? More Like The MobileEmpowered Work Force

Job searching platforms like <u>Sonic</u> and <u>Apna</u> were the #1 breakout apps by downloads in the UK and India, respectively.

Choosing to work for themselves: Delivery driver apps like <u>DoorDash Driver</u> (#1 breakout business app in the US seeing 60% growth YoY from an already high level of demand in 2020), <u>Deliveroo Rider</u> (#7 breakout app in the UK) and <u>Baemin Riders</u> (#3 in South Korea) saw record levels of demand. Apps to empower individuals to earn extra money or work for themselves like <u>WhatsApp Business</u> (#1 Worldwide) and <u>GetNinjas</u> in Brazil (#2) also saw standout growth in demand as consumers turned to mobile for career freedom.

Monitor how consumer behavior manifests on mobile with data.ai. Uncover opportunities, meet your customer needs and identify nascent trends before your competitors.



Top Apps & Games

2021 was a very interesting year with new privacy rules on iOS, changes in app store creatives moderation policy, and the emergence of new big players in the market of app promotion — representing a challenge for the industry as a whole and for us in particular. We're fortunate that we don't have to solve these industry headwinds alone, but in partnership with data.ai.

Petr Abroskin
CMO Search and Portal
Yandex



2021 Rankings by Market | Top Apps

India < **DOWNLOADS CONSUMER SPEND MONTHLY ACTIVE USERS** Media Sharing Networks (Social WhatsApp Hotstar OTT (Entertainment) Communication (Social Media) Instagram Media) Messenger MX TakaTak Short Videos (Entertainment) Tinder Dating (Social Media) Facebook Social Networks (Social Media) Integrated Career Platform Facebook Social Networks (Social Media) LinkedIn Truecaller Caller Blocker (Social Media) (Business) Media Sharing Networks (Social Snapchat Instagram Dating (Social Media) Media Sharing Networks (Social Media) Chamet Media) Live Streaming (Entertainment) Meesho E-Commerce (C2C) (Shopping) Communication (Social Media) Messenger Short Videos (Entertainment) Video Sharing (Entertainment) E-Commerce (B2C) (Shopping) YouTube Amazon Short Videos (Entertainment) Caller Blocker (Social Media) PhonePe Digital Wallets & Payment (Finance) Truecaller Sony LIV E-Commerce (B2C) (Shopping) **Flipkart** OTT (Entertainment) **Flipkart** E-Commerce (B2C) (Shopping) File Management (Utility & Google MX Player PhonePe Digital Wallets & Payment (Finance) OTT (Entertainment) Productivity) File Management (Utility & Network Management (Utility & Share Karo ZEE5 OTT (Entertainment) MyJio

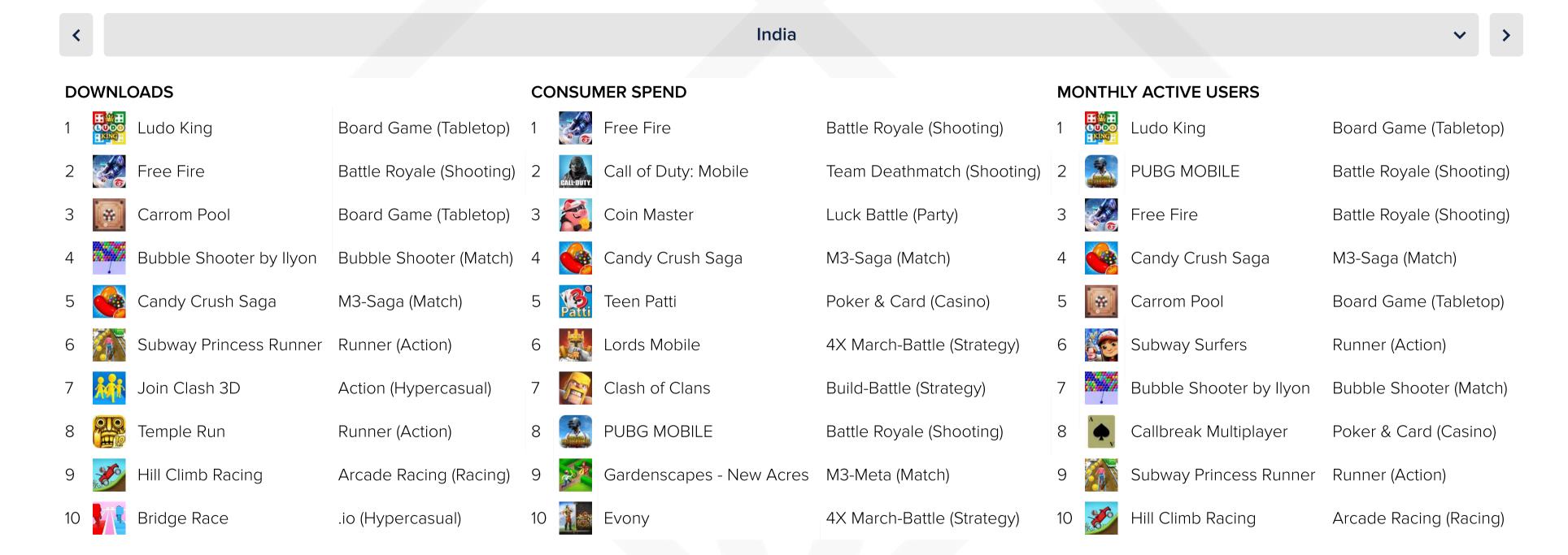
Learn More: Uncover the Most Popular Apps By Market

Productivity)

Source: data.ai Note: Downloads and consumer spend based on combined iOS App Store and Google Play. MAU based on Combined iPhone and Android Phone Monthly Active Users; Excluding pre-installed Apps. Market-level rankings

Productivity)

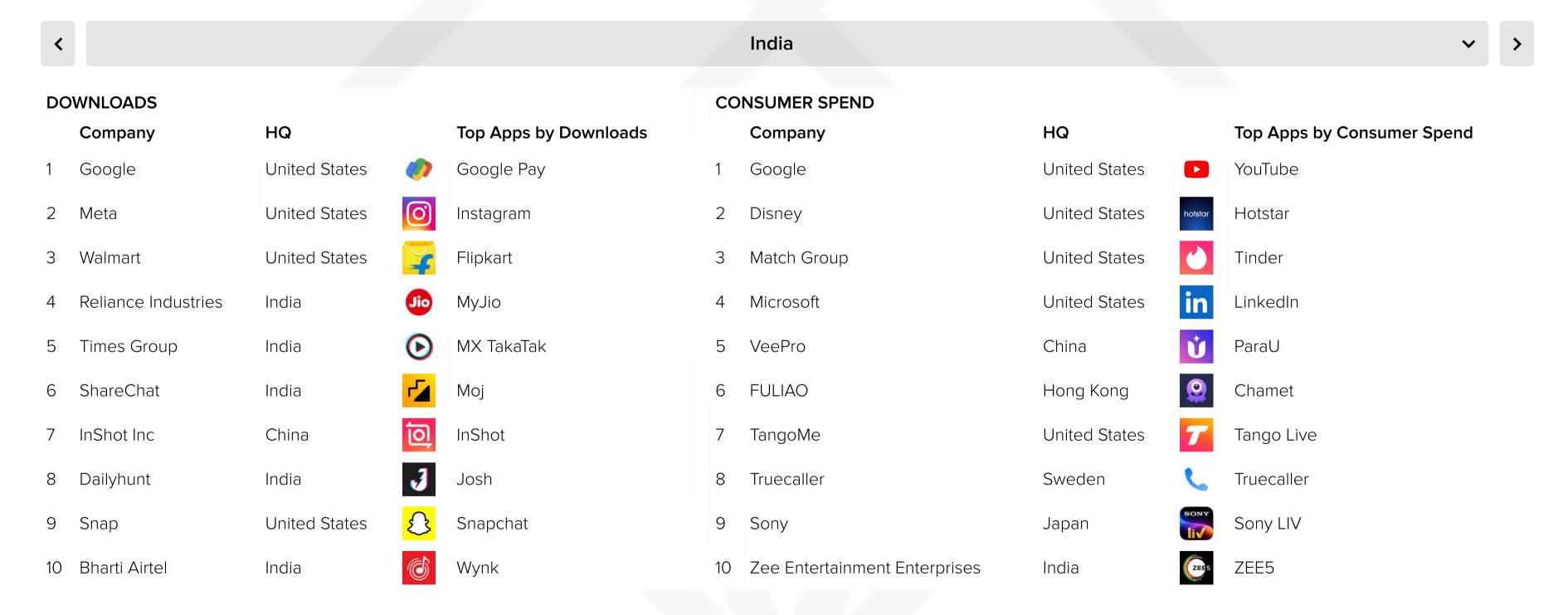
2021 Rankings by Market | Top Games



<u>Learn More: Uncover the Most Popular Games By Market</u>

Source: data.ai Note: Downloads and consumer spend based on combined iOS App Store and Google Play. MAU based on Combined iPhone and Android Phone Monthly Active Users; Excluding pre-installed Apps. Market-level rankings

2021 Rankings by Market | Top Companies - Apps



Learn More: Uncover the Top Apps Publishers Across Different Markets

Source: data.ai Note: Combined iOS and Google Play; China is iOS only; Market-level rankings

2021 Rankings by Market | Top Companies - Games

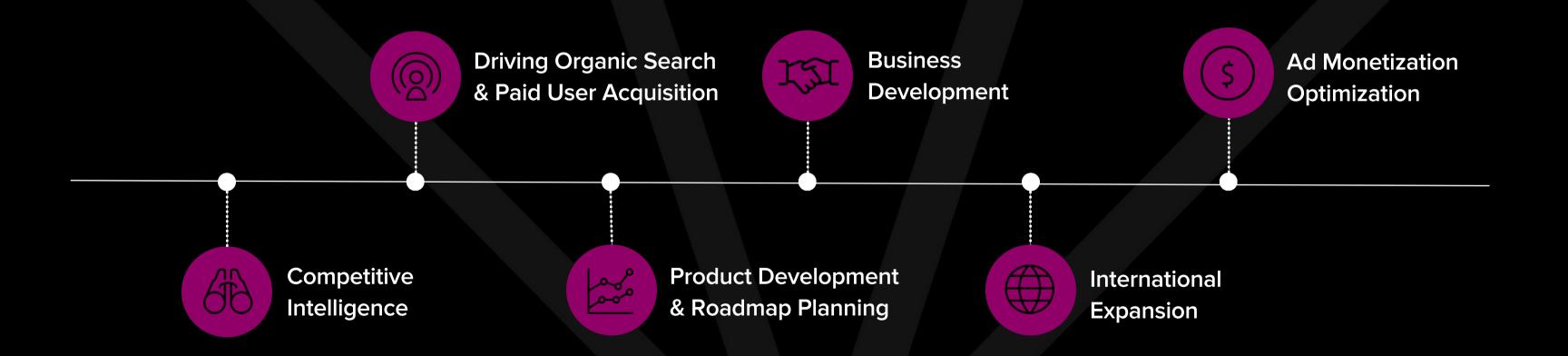
<	India				~	
DOWNLOADS		CONSUMER SPEND				
Company	HQ	Top Games by Downloads	Company	HQ	Top Games by Downloads	
1 Tencent	China	Carrom Pool	1 Sea	Singapore	Free Fire	
2 Jinke Culture - Outfit7	China	My Talking Tom Friends	2 Activision Blizzard	United States	Call of Duty: Mobile	
3 Azur Interactive Games	Cyprus	WormsZone.io	3 Playrix	Ireland	Gardenscapes - New Acres	
4 Voodoo	France	Spiral Roll	4 Moon Active	Israel	Coin Master	
5 ironSource	Israel	Join Clash 3D	5 Supercell	Finland	Clash of Clans	
6 AppLovin	United States	Kitchen Frenzy	6 Tencent	China	8 Ball Pool	
7 SayGames	Belarus	Comics Bob	7 Octro	India	Teen Patti	
8 Crazy Labs	Israel	Phone Case DIY	8 IGG	China	Lords Mobile	
9 Gametion	India	Ludo King	9 Long Tech Network	China	Rise of Empire	
10 BabyBus	China	Baby Panda World	10 Electronic Arts	United States	FIFA Soccer	

Learn More: Uncover the Top Games Publishers Across Different Markets

Source: data.ai Note: Combined iOS and Google Play; China is iOS only; Market-level rankings

data.ai

We Fuel Mobile Excellence & Monetization



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