

DIGITAL ECONOMY COMPASS 2020



The digital economy held its breath, then it started to adapt to COVID-19

The digital economy held its breath in 2020. When COVID-19 hit the markets, it took everyone a while to understand what the new reality would be like. Stock markets plummeted, investments were pulled, unemployment rose, and forecasts became pessimistic.

Then, the digital economy started to adapt, as it is its very nature. Business models changed, digital approaches proved to be more robust than anticipated, and technological solutions were used to overcome COVID-19 challenges in almost all industries.

In this context, we decided to publish the fourth edition of the Digital Economy Compass as late as possible to cover as much of this exciting evolution as we could.

Accordingly, the Digital Economy Compass 2020 first sheds light on the key challenges COVID-19 posed to the global economy in **Chapter 1 – Digital COVID-19**. We then embark on understanding the changes in consumer behavior the pandemic forced on everyone in **Chapter 2 – Digital Human**. The changes to the technologies enabling the digital economy are shown in **Chapter 3 – Digital Technology**. All this leads up

to the core of the Digital Economy Compass 2020, **Chapter 4 – Digital Markets**, featuring the most exciting digital markets and their current and future development as we see it.

In **Chapter 1 – Digital COVID-19**, we show the global COVID-19 impact in terms of stock prices, unemployment, gross domestic product, and recovery forecasts. We then dive more deeply into the COVID-19 impact on selected digital markets in terms of anticipated pre- vs. post-COVID-19 growth and take a closer look at their winners, losers, and transformers. At the end of the chapter, we peek into how the digital economy contributes to the global battle against COVID-19.

Chapter 2 – Digital Human focuses on understanding the changes in consumer behavior, particularly in terms of media consumption and gaming. Similarly, we show changed working behavior, namely remote working, and explore how it came to be, its potential for the long term, and its impact on the economy.

We dive deeply into the technologies enabling the digital economy in **Chapter 3 – Digital Technology**. We focus on ecosystem overviews, market sizes, and growth, as well as key players. The technologies considered range from cybersecurity to 5G to blockchain.

In **Chapter 4 – Digital Markets**, we inspect the most relevant digital markets and illustrate their size, growth, key players, and relevant consumer behavior. Unlike previous Digital Economy Compass publications, we included not only our [Digital Market Outlook](#) markets, but also digital markets from our [Advertising & Media](#), [Mobility](#), [Technology](#), and [Consumer Market Outlooks](#), creating an extensive overview.

For all these insights, we have compiled both external data as well as a vast body of our own, proprietary data. Our own research and market analyses are accessible outside the Digital Economy Compass in even greater depth and bundled into a targeted product family. The Statista Market Outlooks provide 700,000+ data stats on 2,200+ markets, 700+ reports, and cover 150+ countries. The [Statista Global Consumer Survey](#) contains data from 700,000+ surveys, covering 55+ countries and 50+

industries as well as 6,500+ brands. The [eCommerceDB.com](#) collects revenue data and 40+ KPIs of 20,000+ online stores in 50+ countries and generates 270+ reports. The [Statista CompanyDB](#) provides data for 1.7 million companies clustered into 80+ industries and condensed into 1,000+ reports depicting 28+ different KPIs.

All of our products and in-depth insights can be found at [statista.com](#).

For the Digital Economy Compass 2020, we are proud to have compiled more than 250 slides with the most insightful and exciting data. We hope you find them to be both informative and enjoyable.



A handwritten signature in black ink, which appears to read "Dr. Friedrich Schwandt". The signature is stylized and fluid.

Dr. Friedrich Schwandt (CEO)

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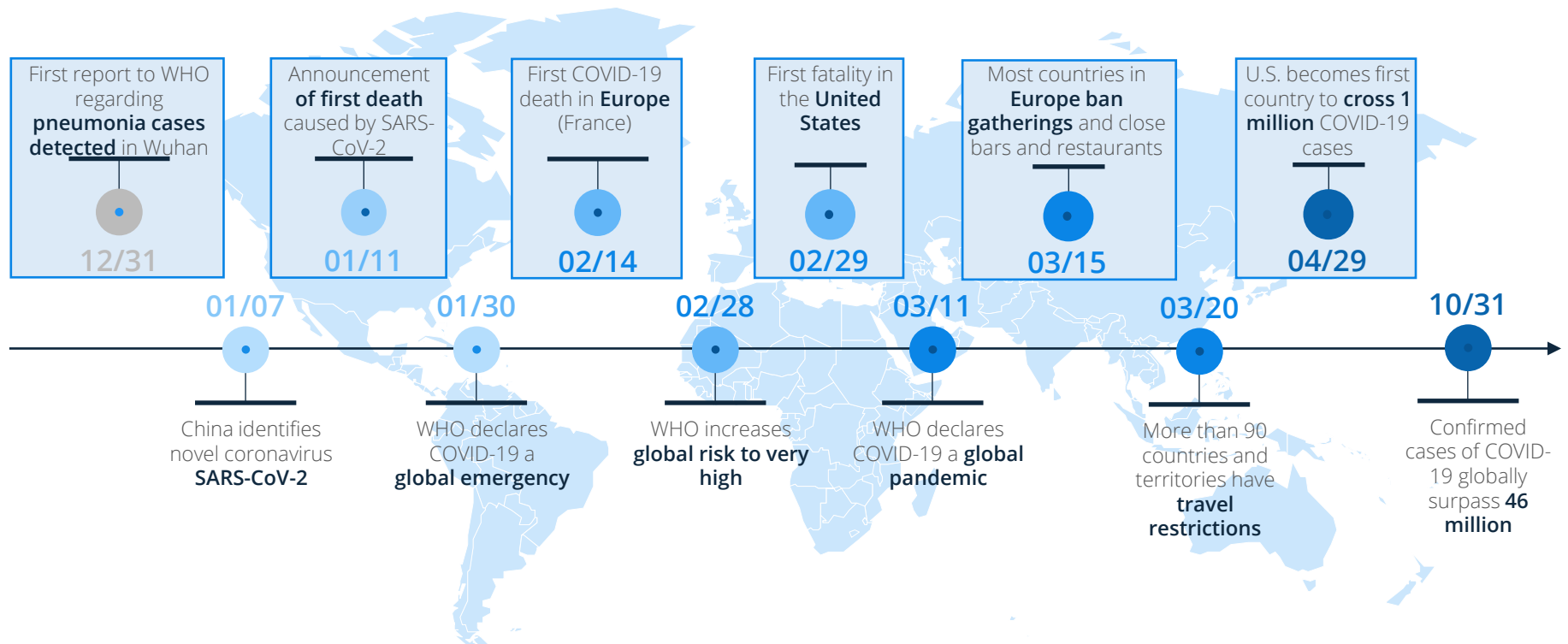
DIGITAL COVID-19

IMPACT ON GLOBAL ECONOMY



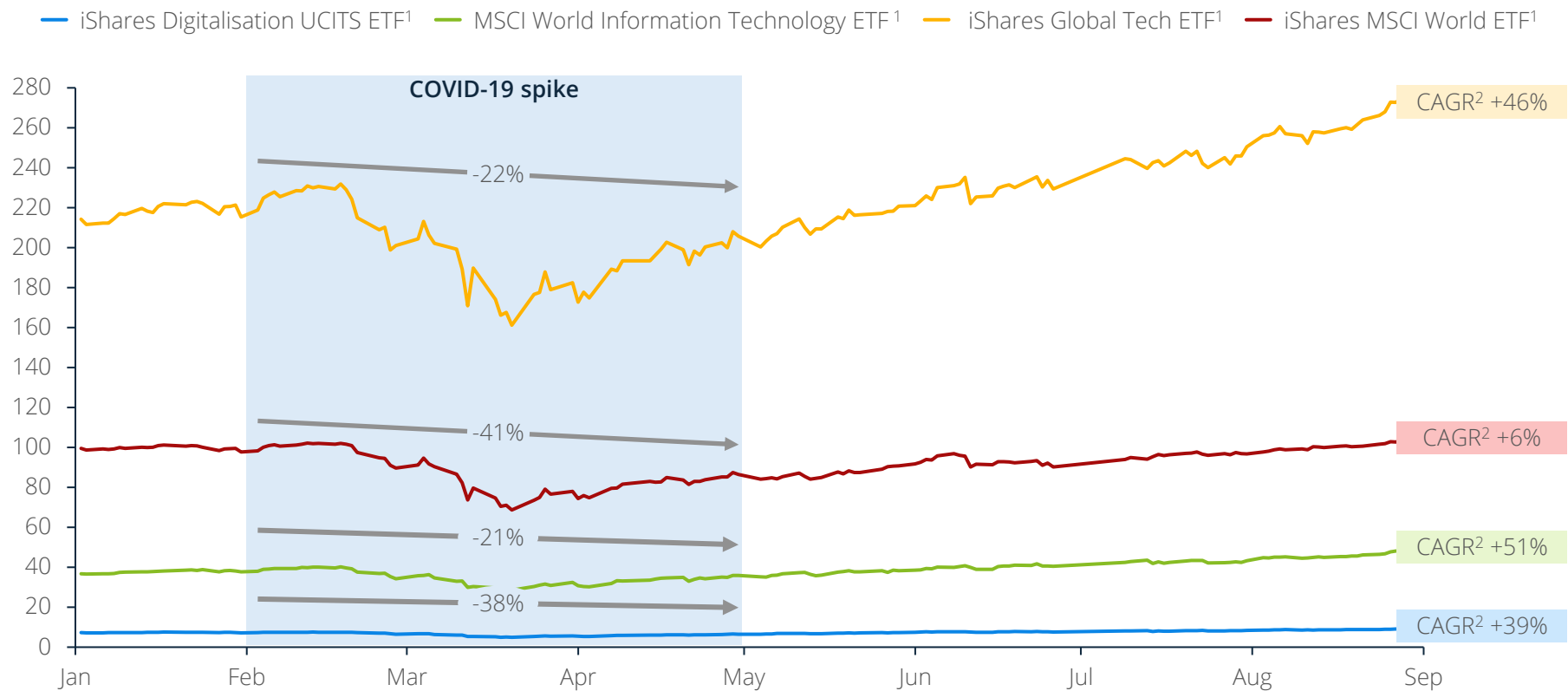
In under three months, a local infection became a pandemic affecting 210 countries and territories

Global COVID-19 pandemic and timeline 2019/2020



The share prices plummeted in Q1 '20 but started a quick recovery, improving overall by Sep '20

Changes in key digital and technology stock indices in US\$



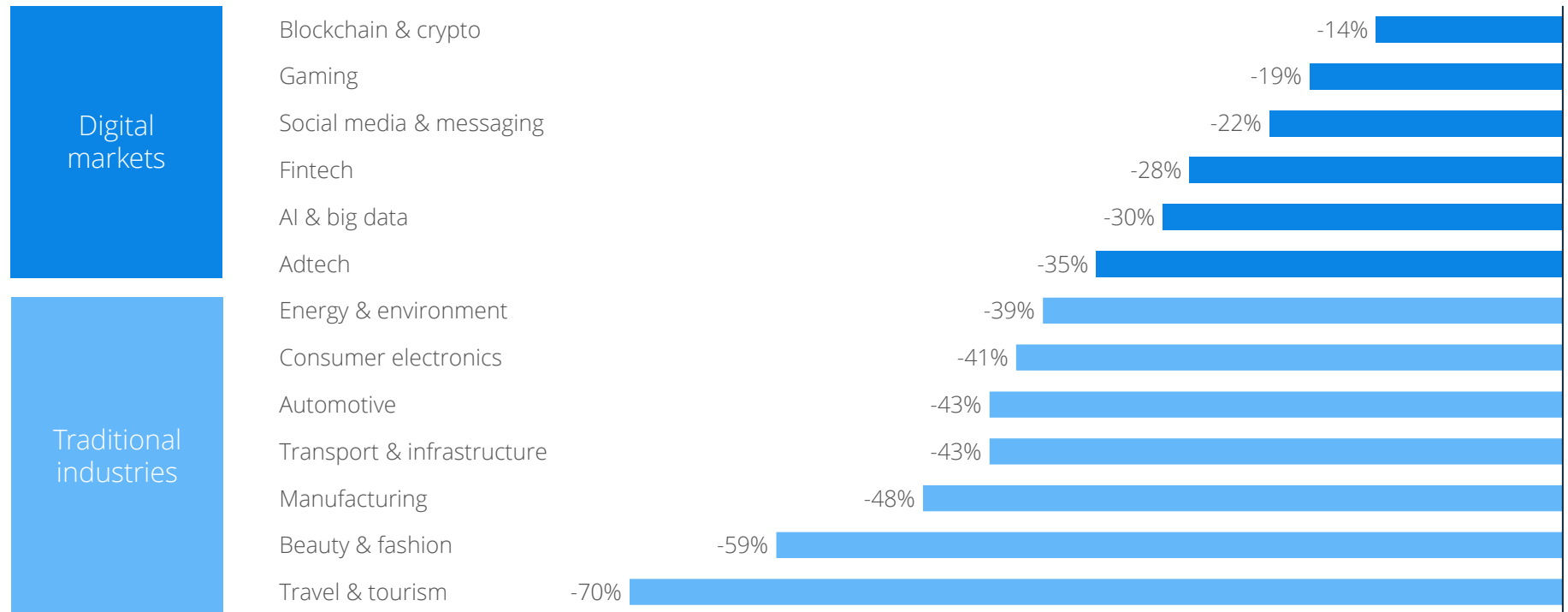
1: An exchange-traded fund is a type of investment fund that is listed and traded on stock exchanges

2: CAGR Jan '20-Sep '20: Compound Annual Growth Rate/average growth rate per year

Sources: Yahoo Finance

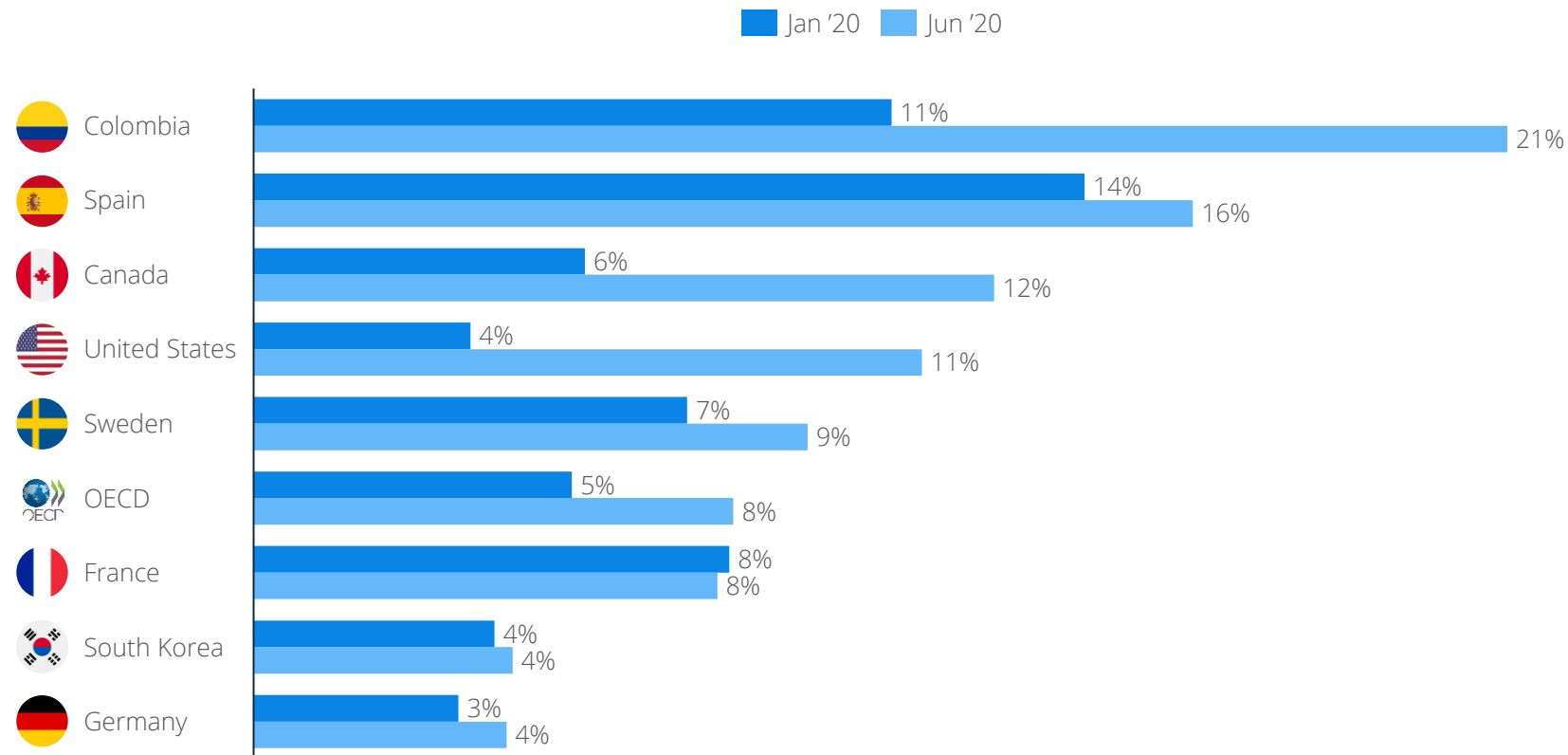
In general, start-ups in digital markets performed better than those in traditional industries

Global changes in start-up revenue between Dec '19 and Jun '20



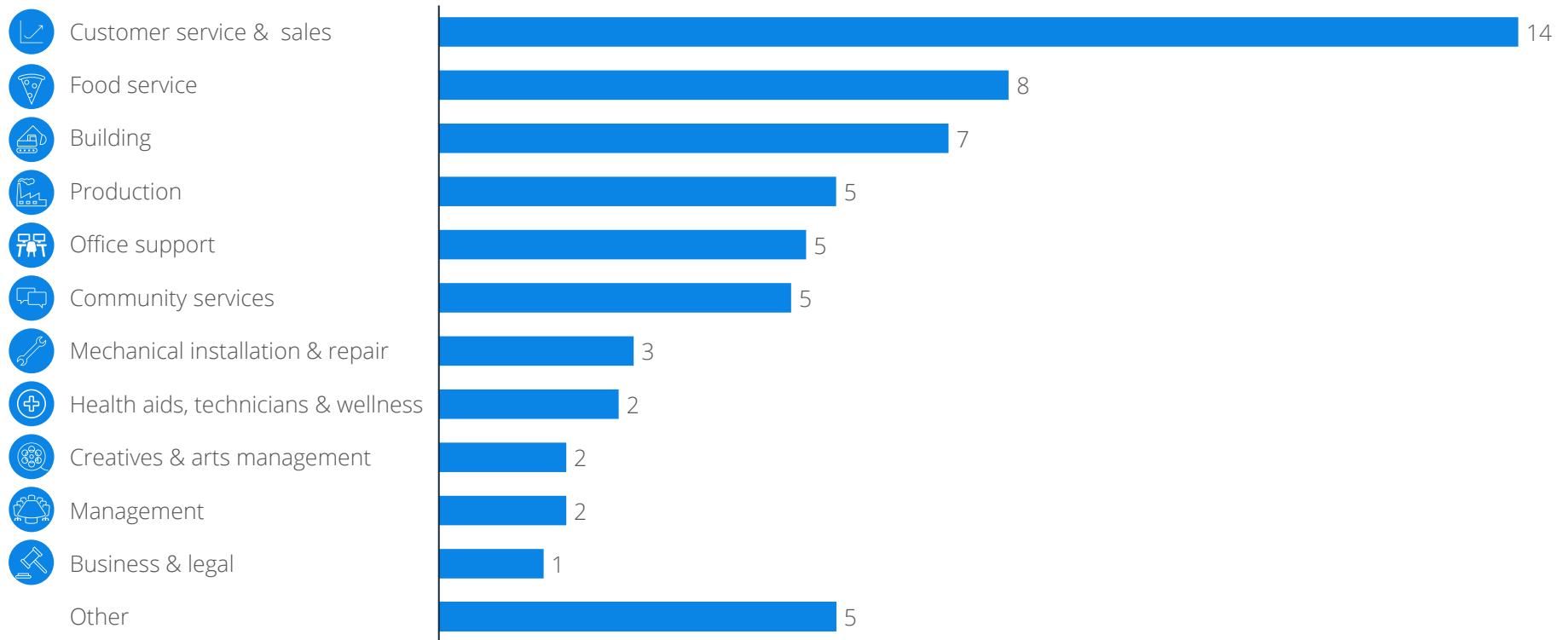
Layoffs took place globally, with Colombia, Spain, Canada, and the U.S. Hit hardest

Labor force unemployment rates and changes in selected OECD countries



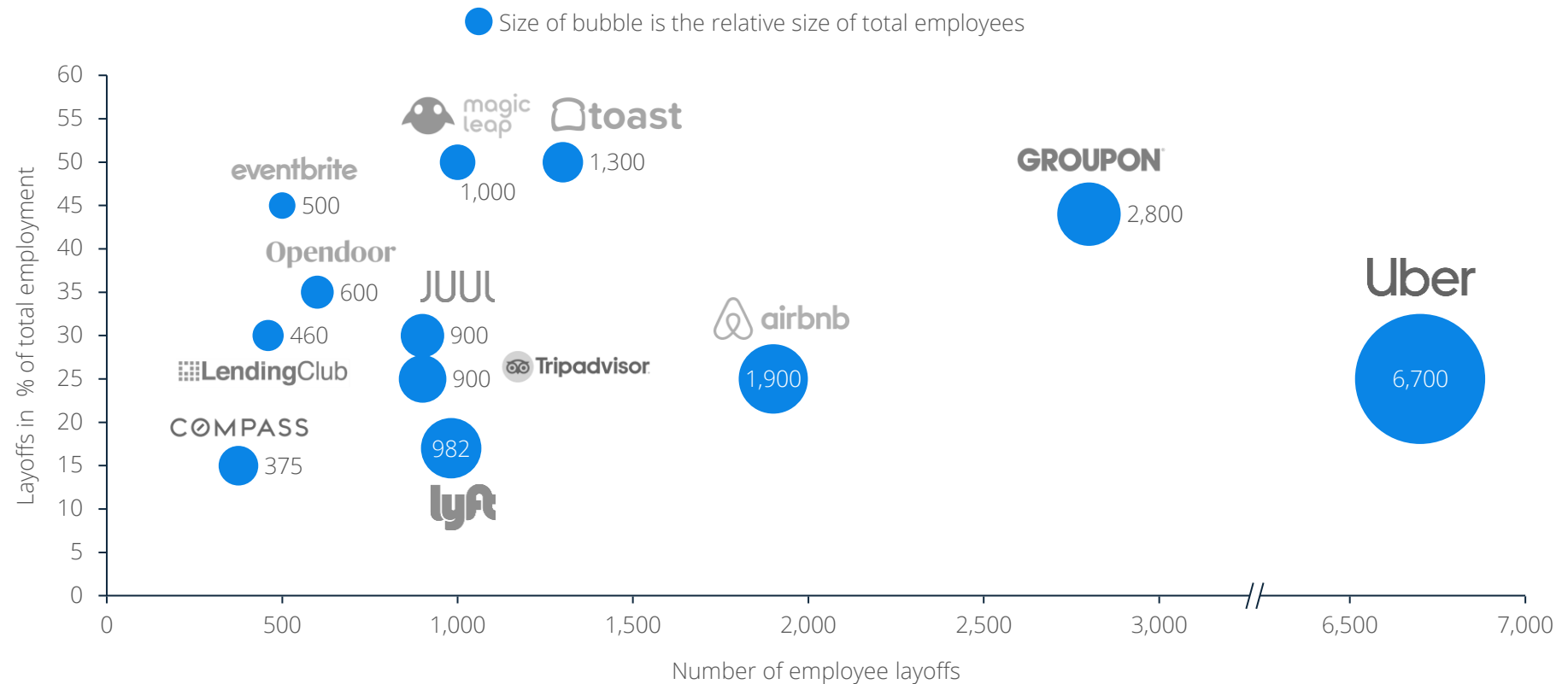
In Europe, unemployment due to COVID-19 was highest in customer service & sales and food service

Unemployment in Europe in million in Apr' 20



COVID-19 triggered mass-layoffs across U.S. start-ups, with Uber and Groupon as prominent examples

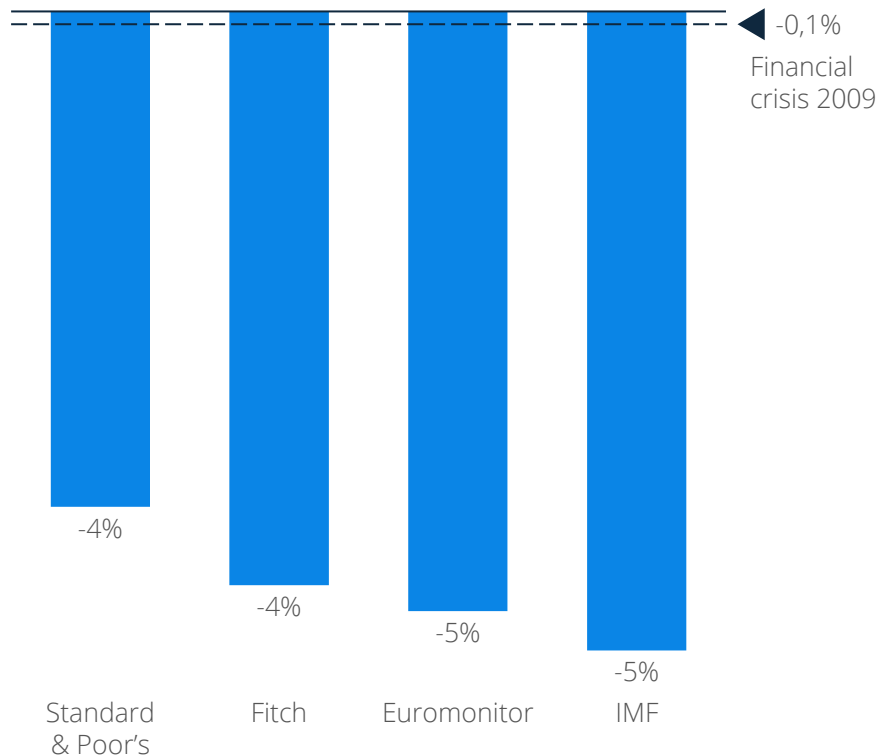
Employee layoffs of selected start-ups between Mar '20 and May '20



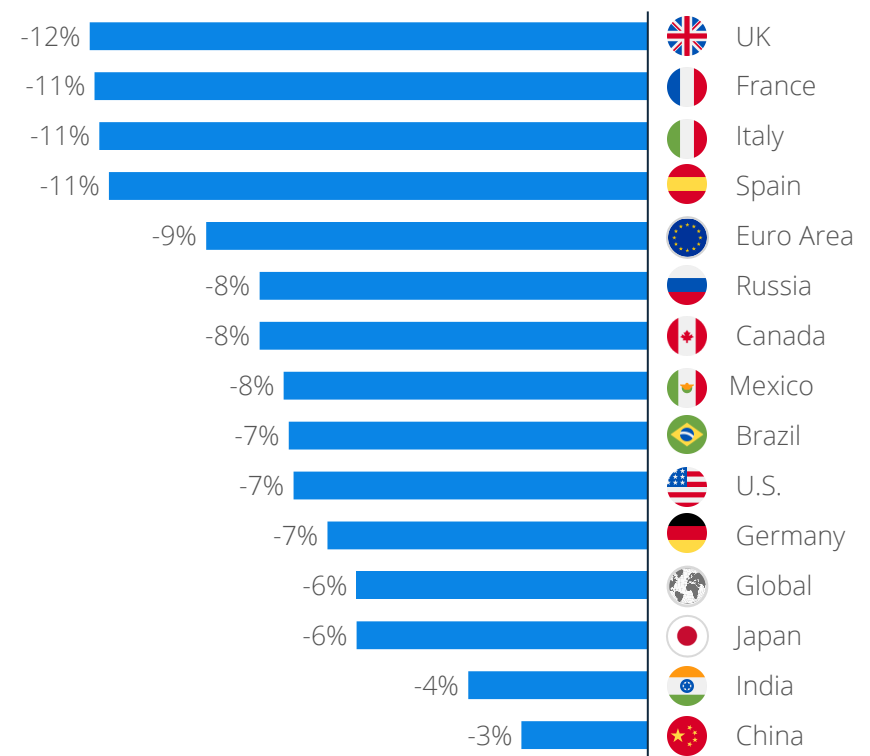
Note: Layoffs from March 11 to May 26, 2020
Sources: Visualcapitalist, Bloomberg, Reuters, Techcrunch

Global institutions expect a recession in 2020 that is more severe than the financial crisis of 2009

Global real GDP forecast for 2020¹



Country specific real GDP forecast for 2020²



1: S&P (July 2020), Euromonitor (average of high and low estimate, June 29, 2020), IMF (June 2020), Fitch (September 7, 2020)

2: Projections by OECD, assumption for "Single-hit scenario": refers to a scenario where a second wave of infection does not occur before the end of 2020, as of June 2020

Sources: S&P, Euromonitor, Oxford Economics, IMF, Fitch, OECD

After a sharp decline, economic development may ensue according to one of the V-U-L scenarios

Factors affecting scenarios of economic recoveries



Duration/type of restrictions



Government aid programs



Consumer behavior



Timing of medication/
vaccine



Unemployment rates



Impact on consumer budgets



Economic recovery scenarios

V

Fast recovery

U

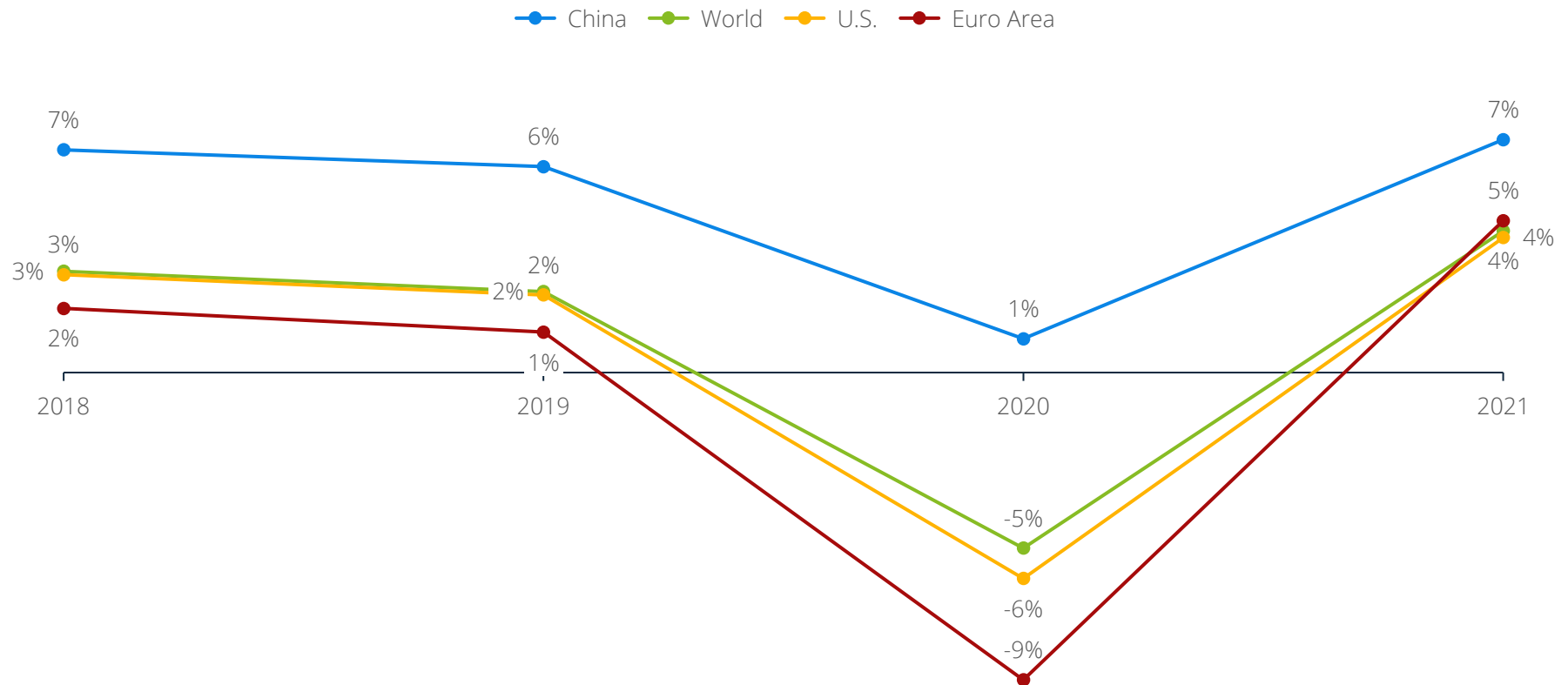
Strong recovery after longer recession ("bathtub")

L

Extended, severe recession

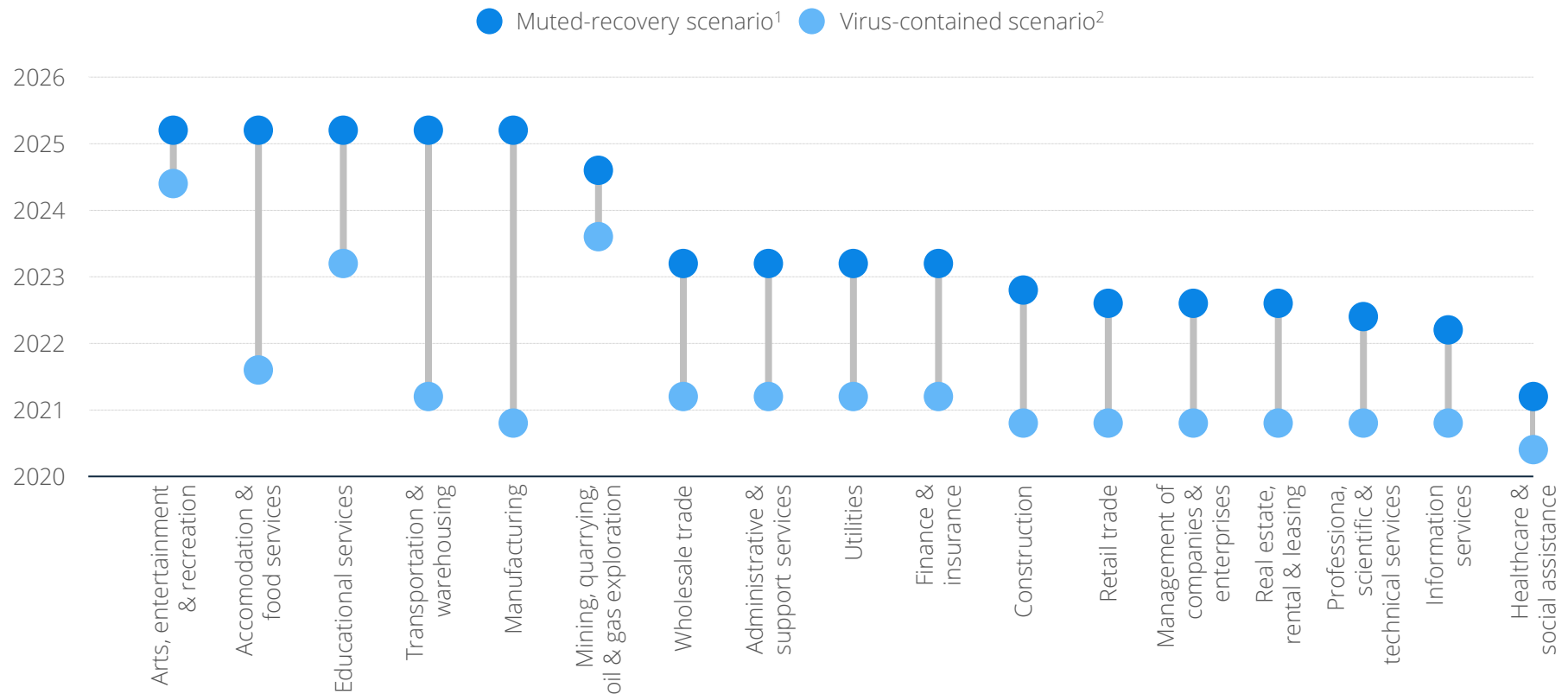
A V-shaped recovery of world economies is expected to be the likely scenario across the globe

Real GDP forecast for selected economies



For some industries, recovery to pre-COVID-19 GDP levels could take up to five years

Expected year of recovery for selected industries



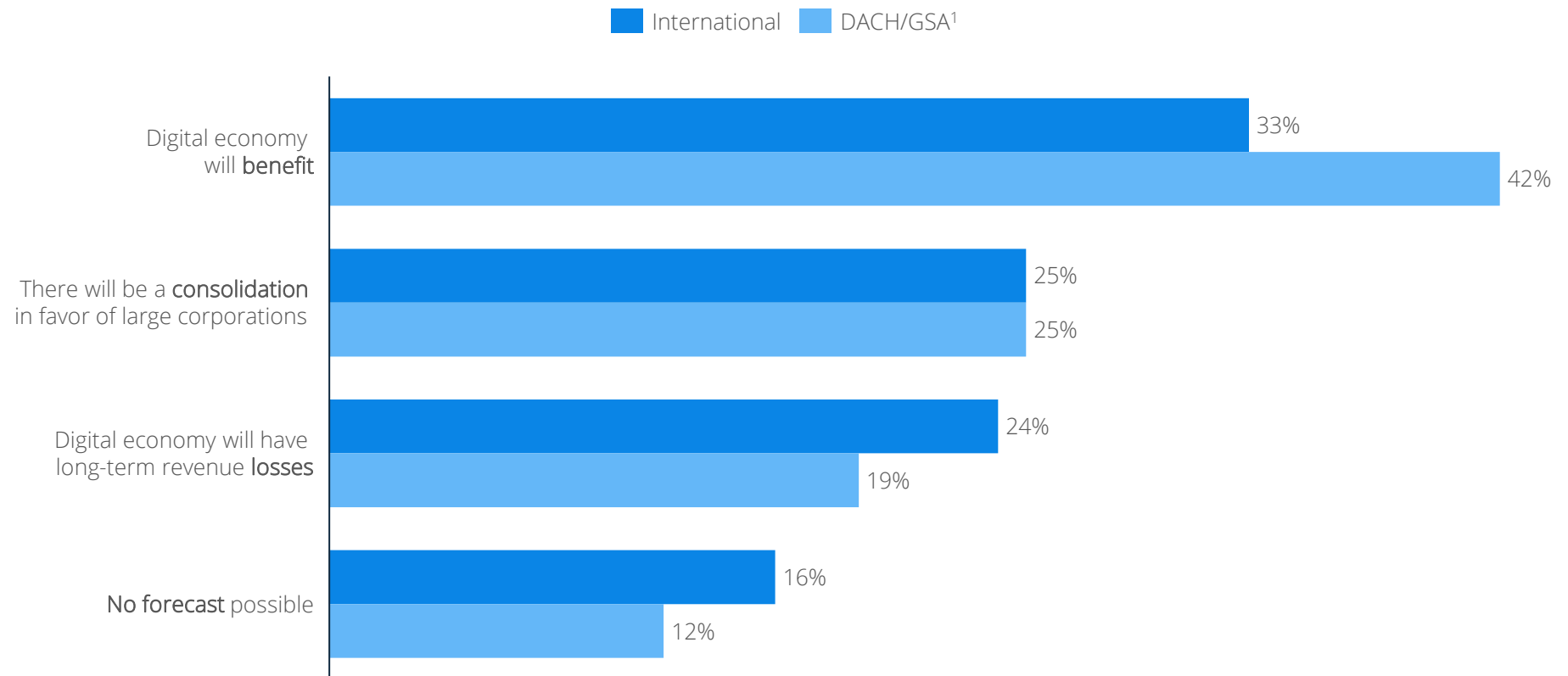
1: Muted-recovery scenario: If the public health response, including social distancing and lockdown measures, is initially successful but fails to prevent a resurgence in the virus

2: Virus-contained scenario: The virus is successfully contained and there is a strong rebound of the global economy

Sources: Oxford Economics, McKinsey, as of June 2020

In the digital economy, experts expect both risk and opportunity for the future

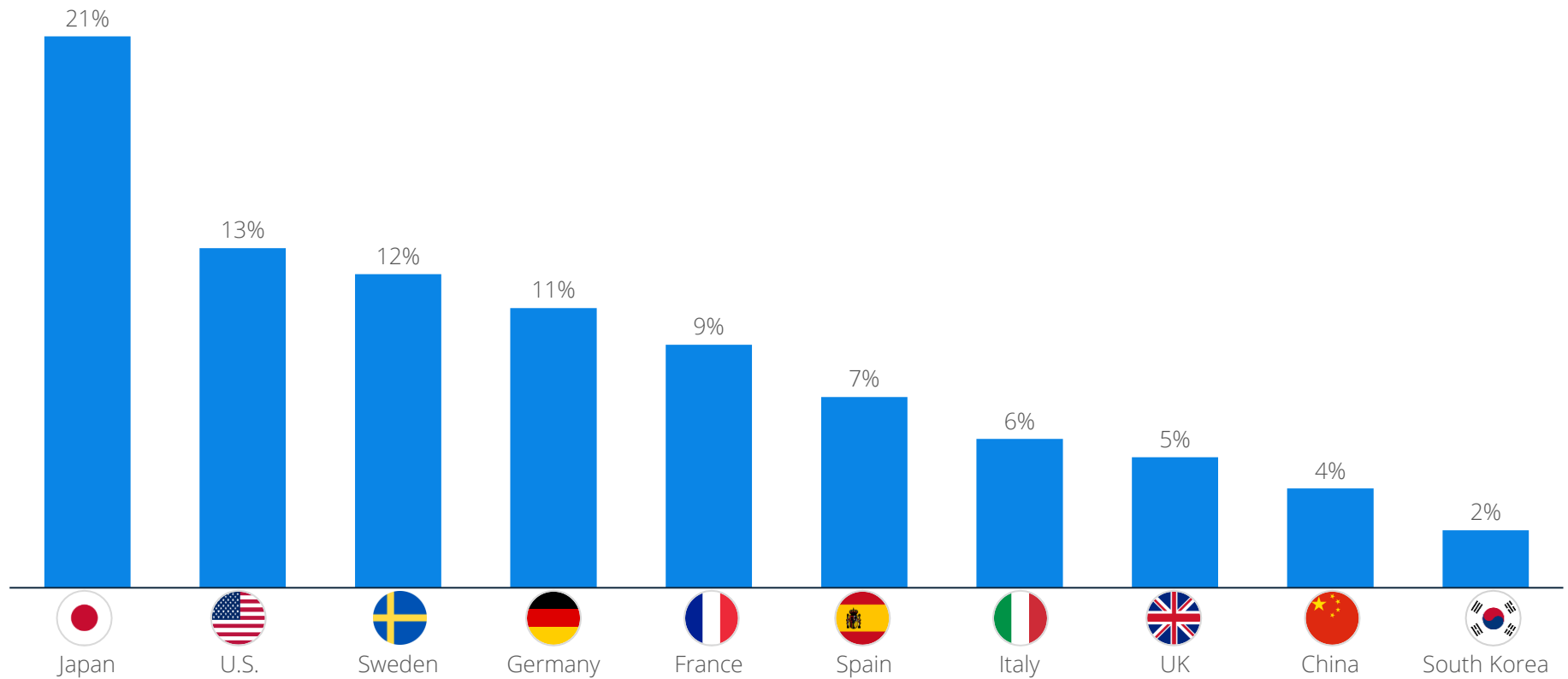
Agreements by digital decision makers about selected economic scenarios caused by COVID-19



1: DACH=Deutschland, Österreich, Schweiz, GSA=Germany, Austria, Switzerland
Note: DACH (n=527), International (n=305) digital decision-makers
Sources: DEMEXO, as of April 2020

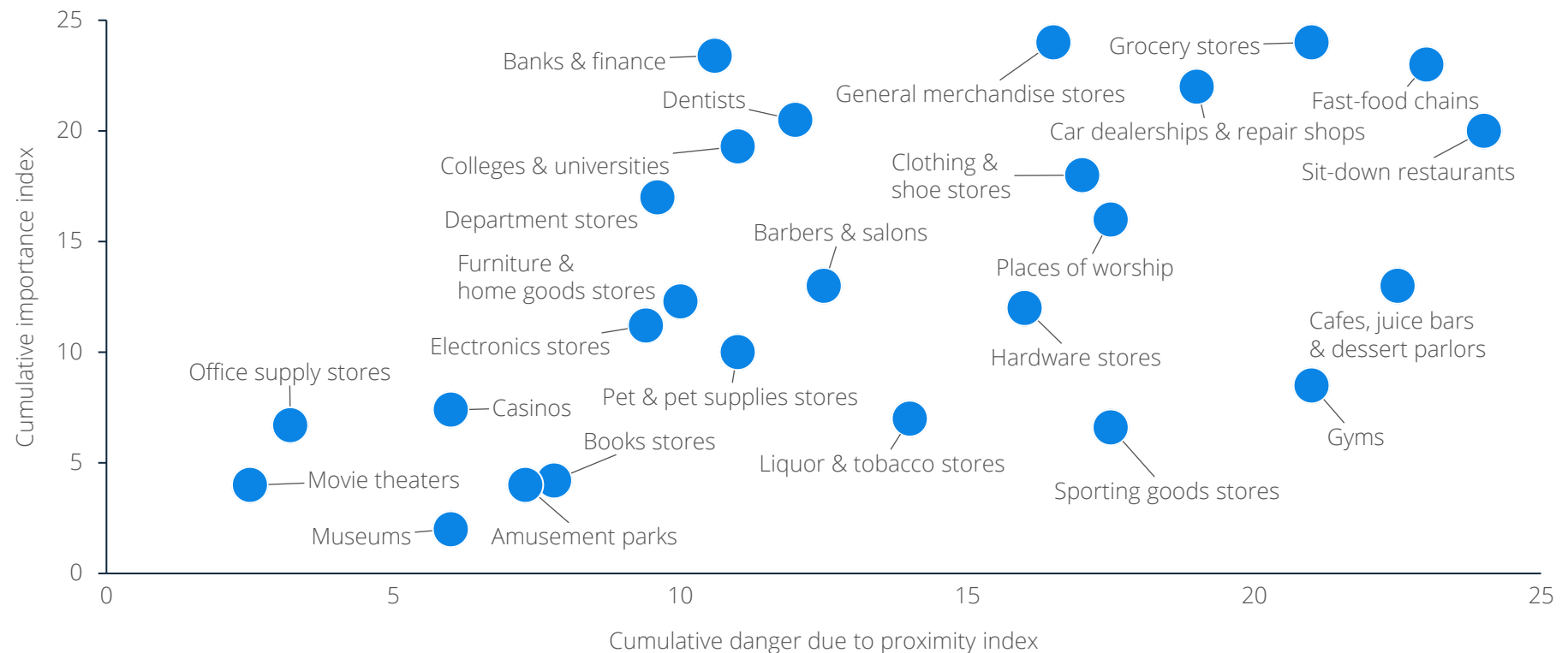
Positive economic development is supported by a vast array of stimulus packages issued in many countries

Financial COVID-19 response as share of GDP as of May '20



Some industries started re-opening earlier due to their importance vs. proximity danger trade-off

Industry specific re-opening indication based on importance vs. proximity danger index



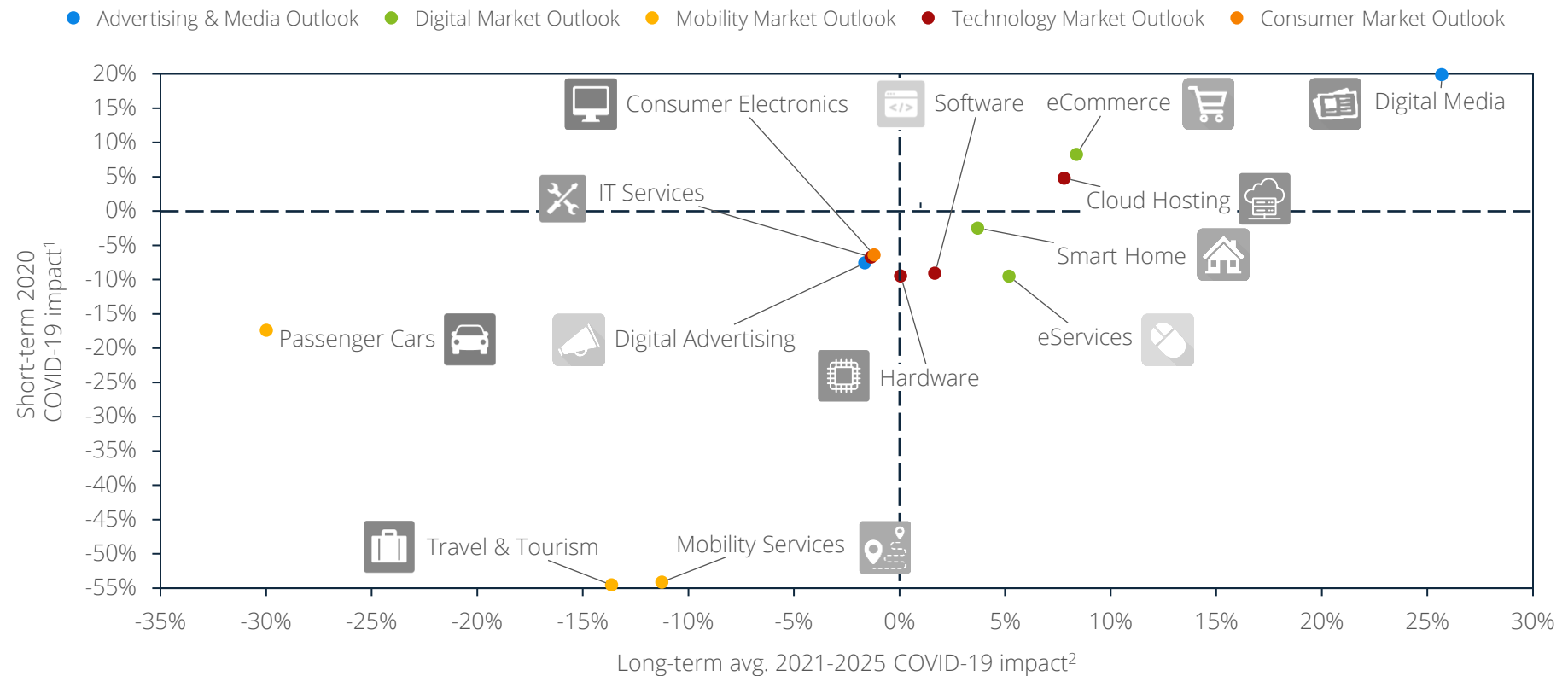
Note: The cumulative risk of a location was determined by factors such as the number of total visits (with an emphasis on older visitors), distance traveled to the location, and the density of attendance. The result is a ranking of locations by danger based on proximity and by economic importance. High importance locations, such as banks, grocery stores, and dentists, were identified as an index of consumer welfare, employment, payroll, and spending. Re-opening of industries are often aligned with their respective importance vs. proximity danger position. Sources: medium.com, as of May 2020

IMPACT ON DIGITAL ECONOMY



Statista markets show COVID-19 specific impact: Less mobility & travel opportunities and more media usage

Short- and long-term COVID-19 impact on selected Statista markets



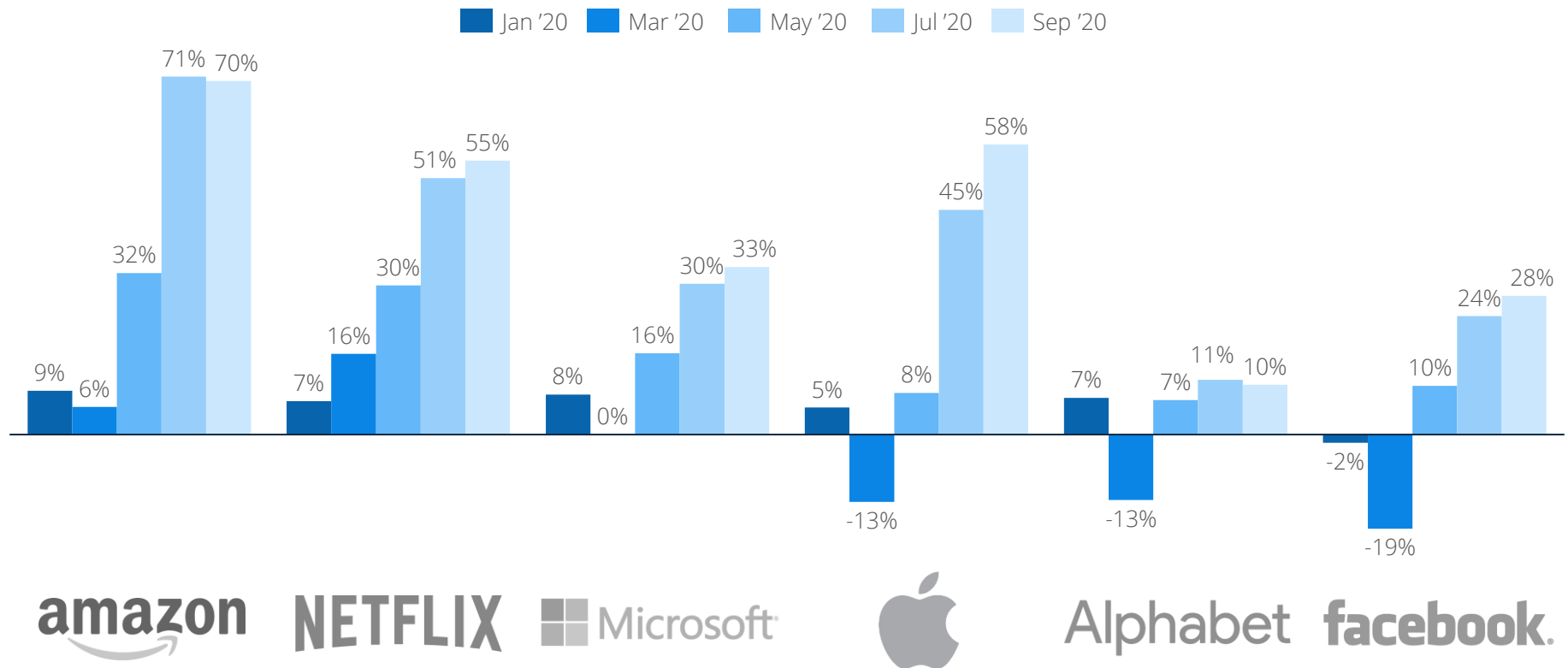
1: Statista modeled COVID-19 impact 2020 on markets pre-COVID-19 (as of Q4/Q1 2019/2020) vs. post-COVID-19 (as of October 2020)

2: Statista modeled COVID-19 average impact 2021-2025 on markets pre-COVID-19 (as of Q4/Q1 2020) vs. post-COVID-19 (as of October 2020)

Sources: Statista Market Outlooks

Key players in digital markets prospered during the crisis and demonstrated a positive share performance

Stock performance of leading global digital companies during COVID-19 as compared to December 31, 2019



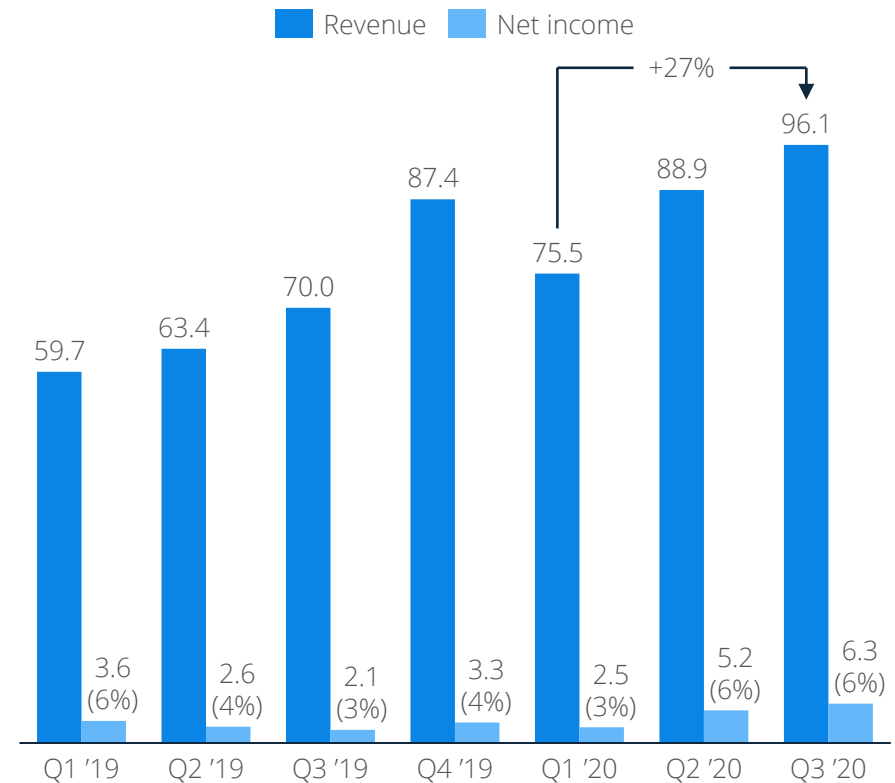
Amazon stock price increased until the end of Q3 '20, with revenues concurrently growing by 27%



Amazon stock price in US\$



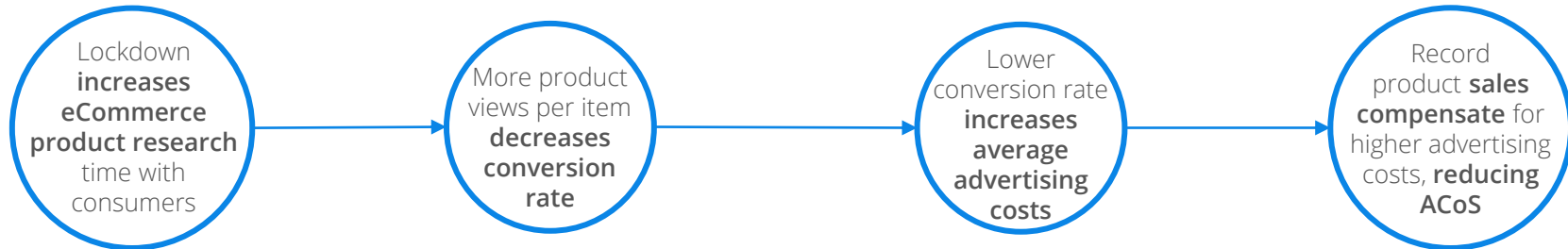
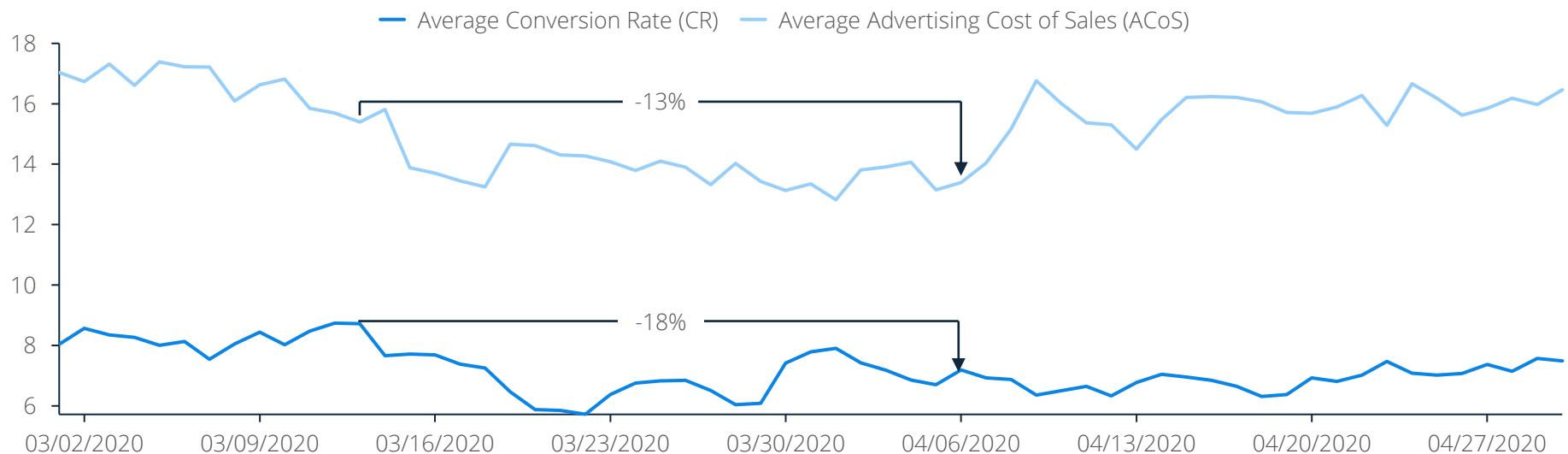
Amazon revenue and net income in billion US\$



During the lockdown conversion rates dropped but due to higher sales, ACoS¹ on Amazon also dropped



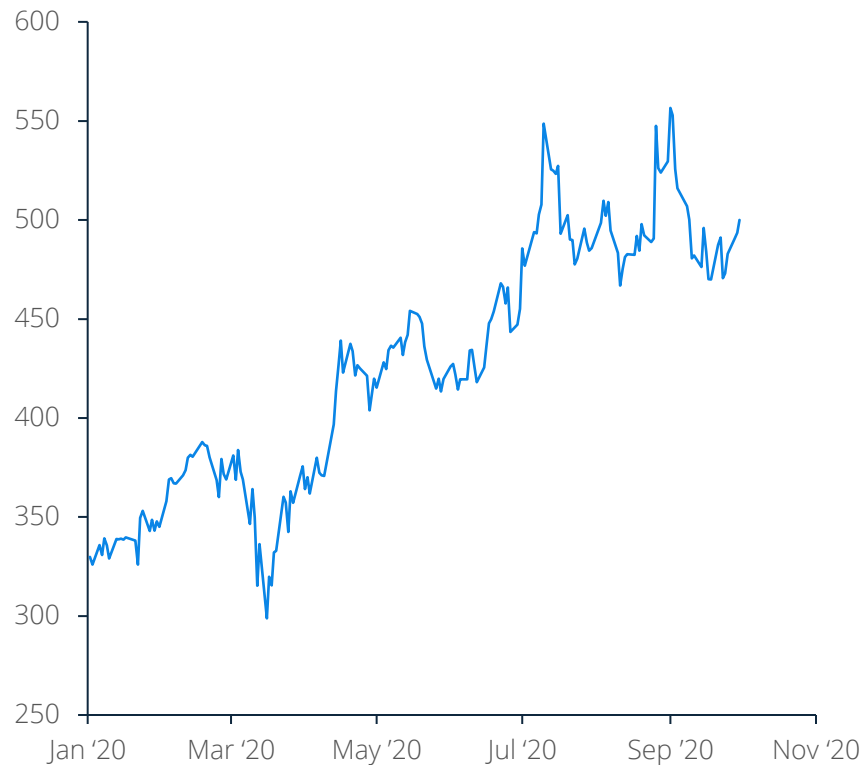
Average conversion rate (CR) and average advertising cost of sales (ACoS) in %



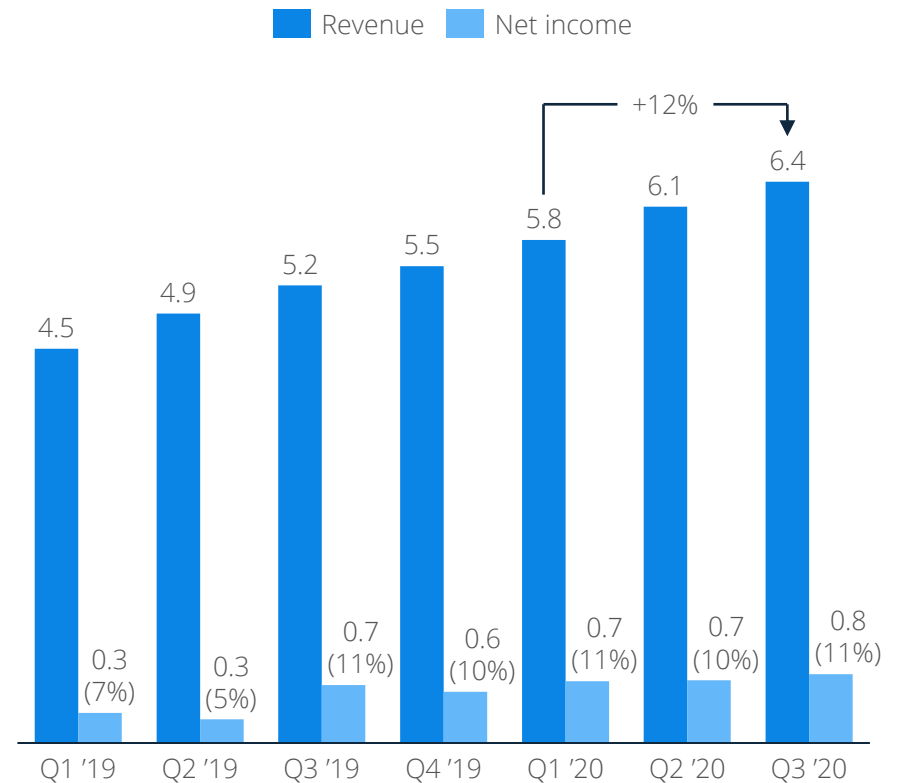
Netflix stock price increased until the end of Q3 '20, with revenues concurrently growing by 12%

NETFLIX

Netflix stock price in US\$



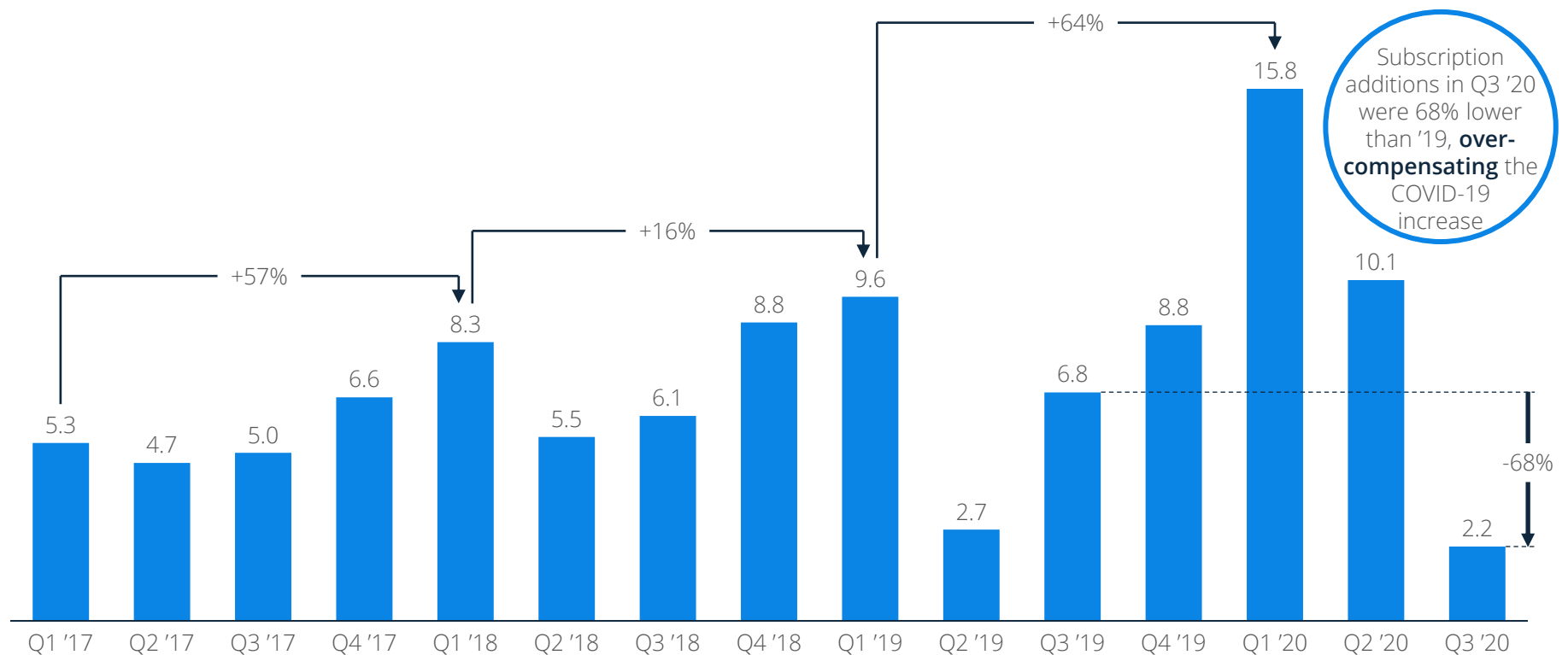
Netflix revenue and net income in billion US\$



Netflix unparalleled increase of ~16million users due to COVID-19 in Q1 '20 was overcompensated in Q3 '20

NETFLIX

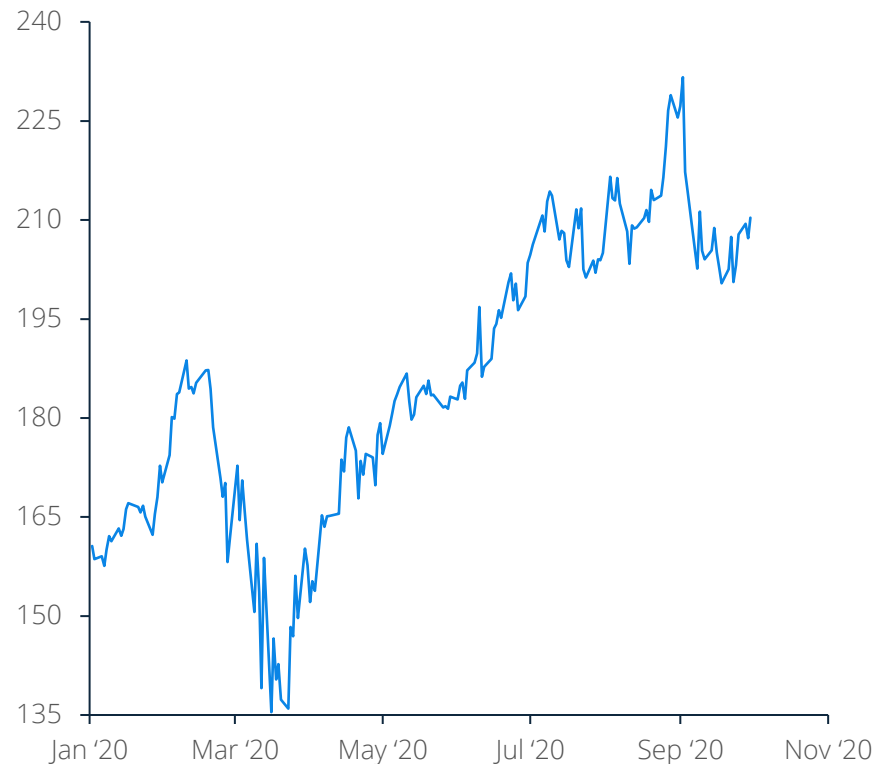
Global Netflix paid net subscriber additions in million



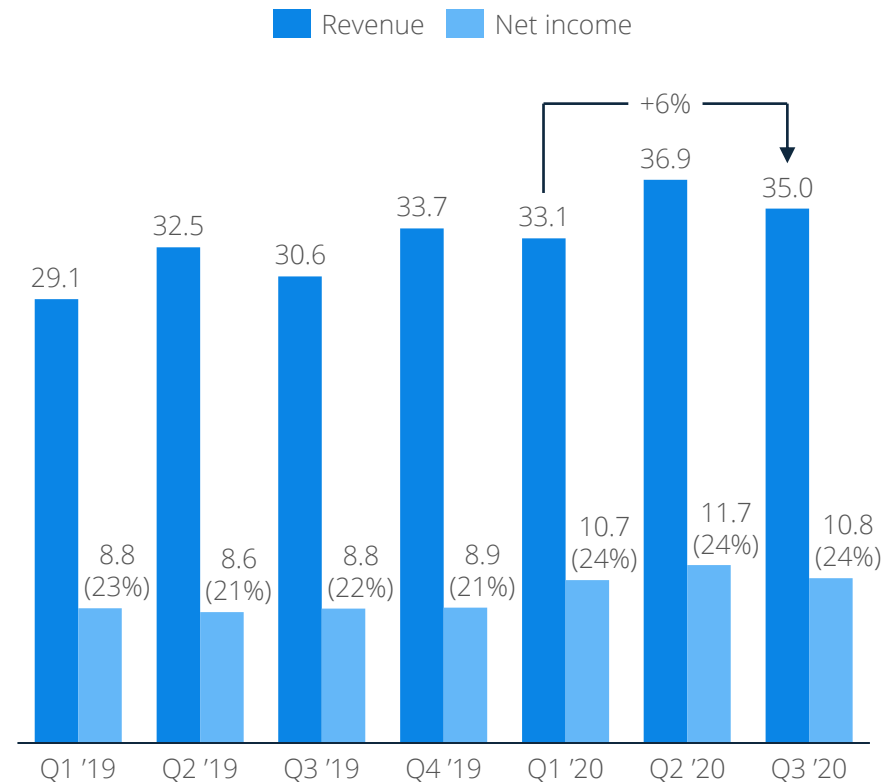
Microsoft stock price increased until the end of Q3 '20, with revenues concurrently growing by 6%



Microsoft stock price in US\$



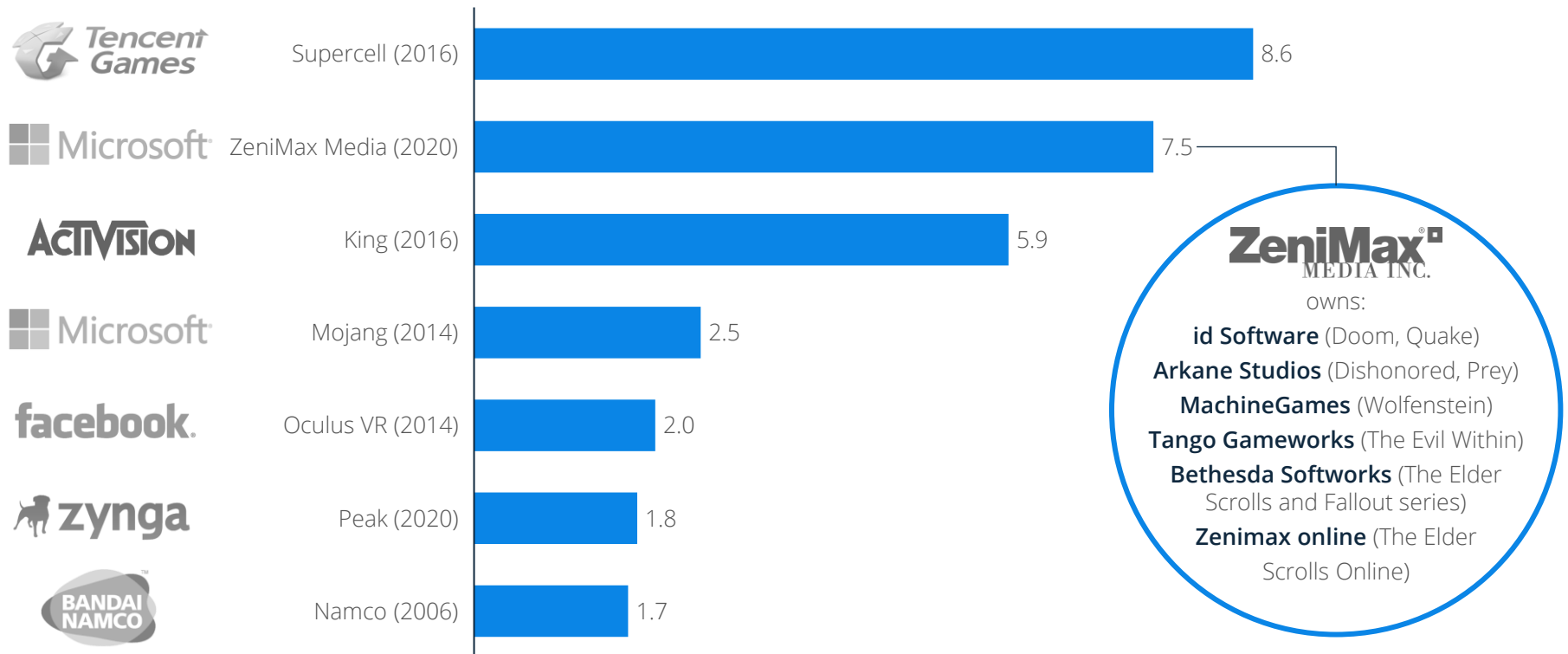
Microsoft revenue and net income in billion US\$



Microsoft strengthened its COVID-19-resilient gaming business with an investment in ZeniMax Media



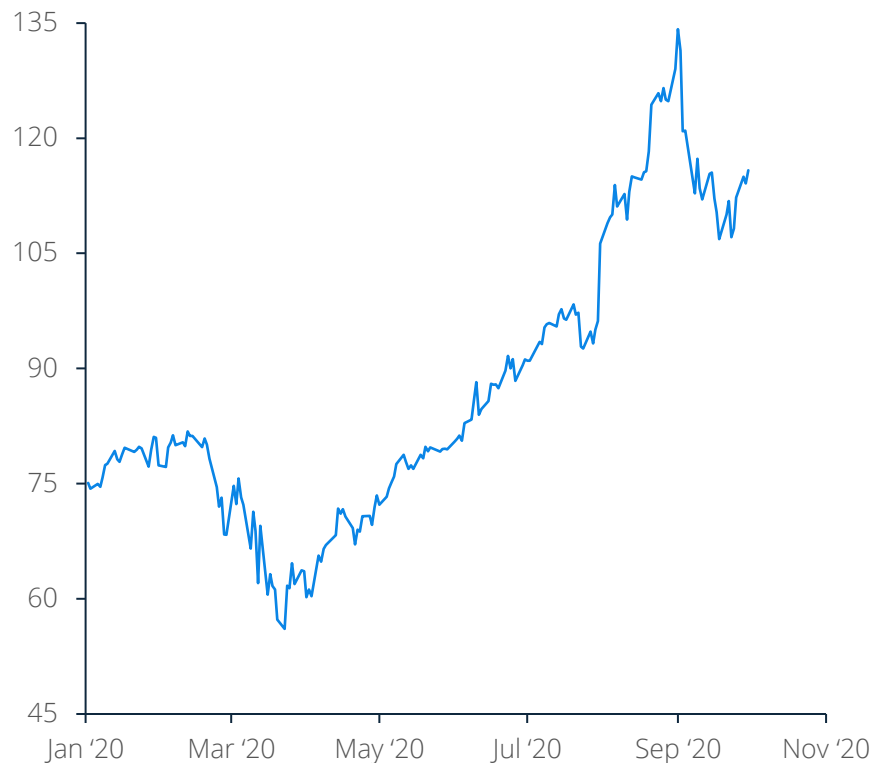
Largest video game company acquisitions in billion US\$



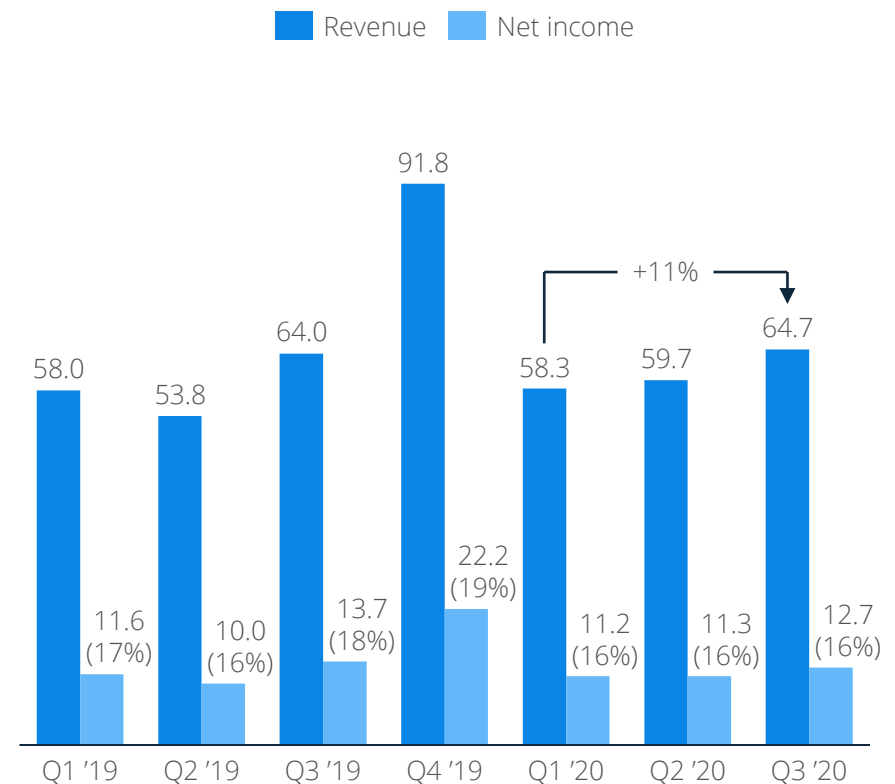
Apple stock price increased until the end of Q3 '20, with revenues concurrently growing by 11%



Apple stock price in US\$



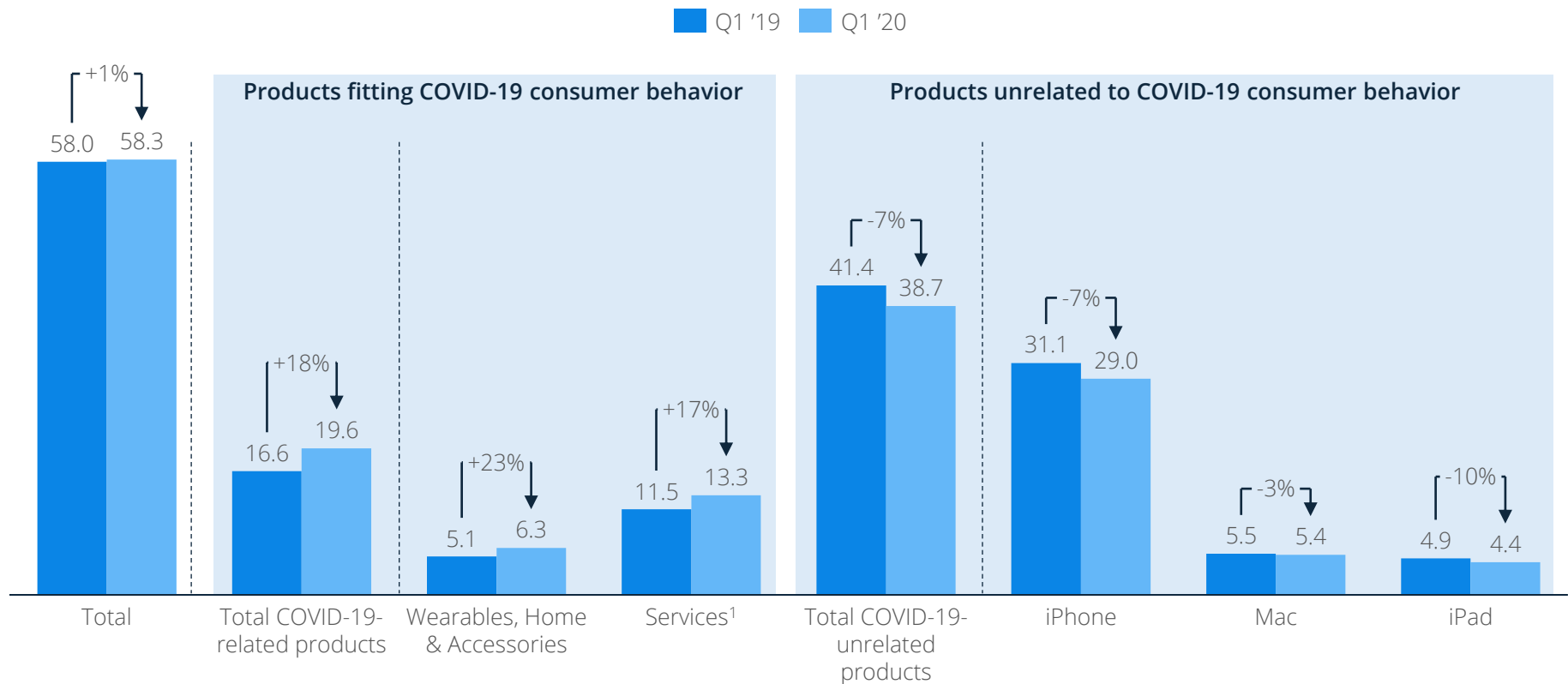
Apple revenue and net income in billion US\$



Apple revenues increased for products fitting the new COVID-19 consumer behavior



Apple global net sales by category in billion in Q1 '19 and Q1 '20



1: Services net sales include sales from the Company's digital content stores and streaming services, AppleCare®, Advertising, and other services. Services net sales also include amortization of the deferred value of Maps, Siri, and free iCloud storage and Apple TV+ services, which are bundled in the sales price of certain products.

Sources: Apple, [Statista Apple Brand Report](#)

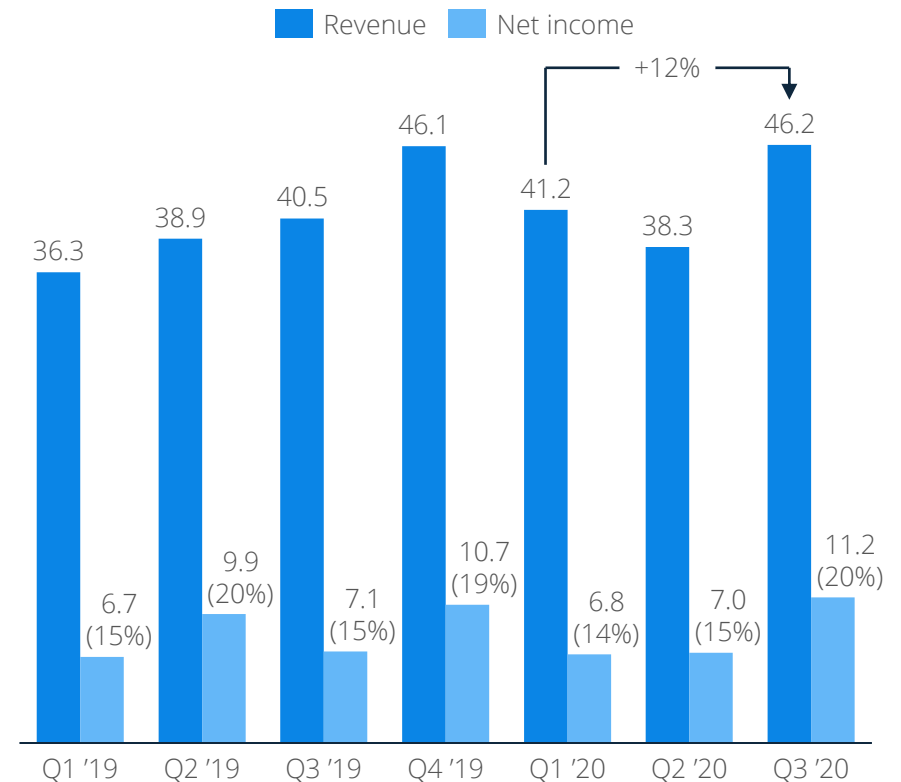
Google stock price increased until the end of Q3 '20, with revenues concurrently growing by 12%



Google stock price in US\$



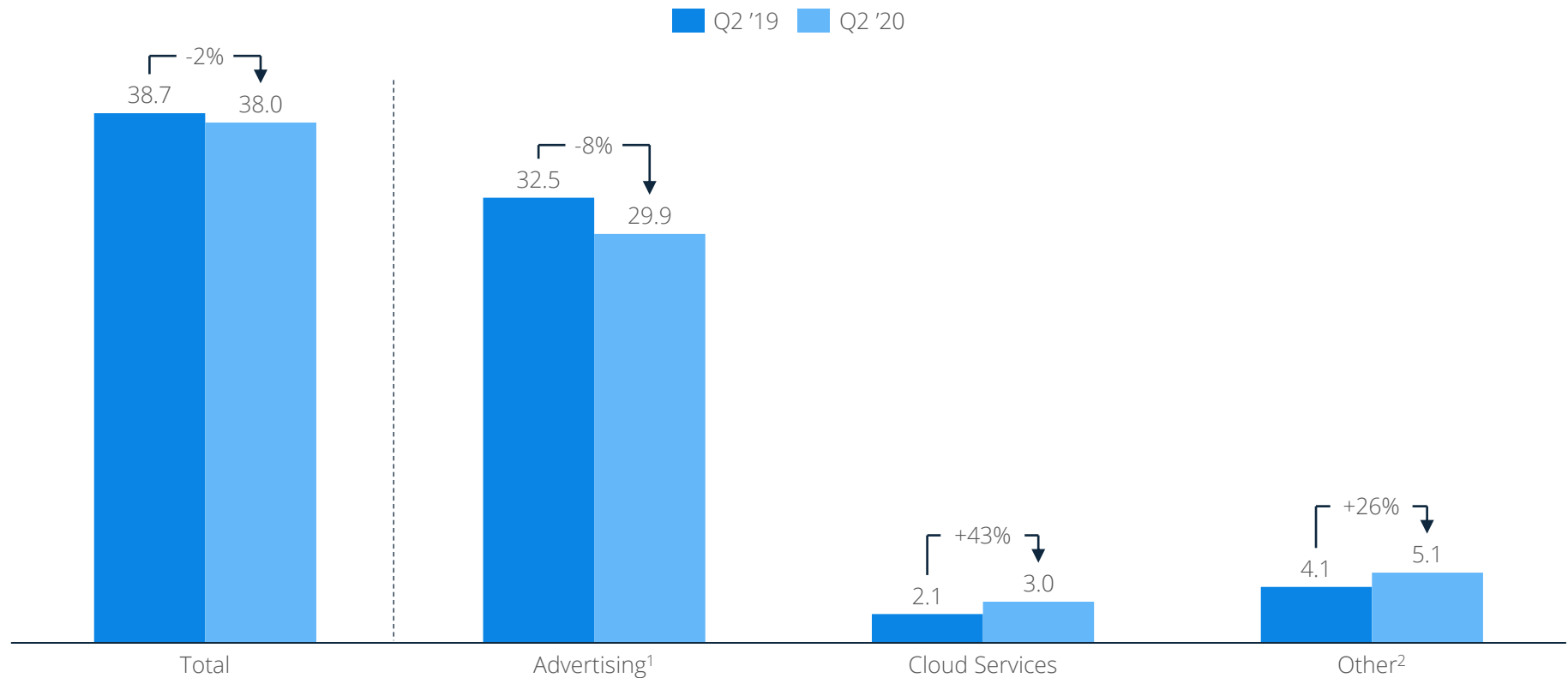
Google (Alphabet) revenue and net income in billion US\$



Google's -8% advertising loss was not compensated by strong revenue growth in Cloud Services and Other



Google global revenues in selected fields affected by COVID-19 in million US\$



1: Includes Google Search & other as well as YouTube ads and Google properties and Network Member's properties revenues

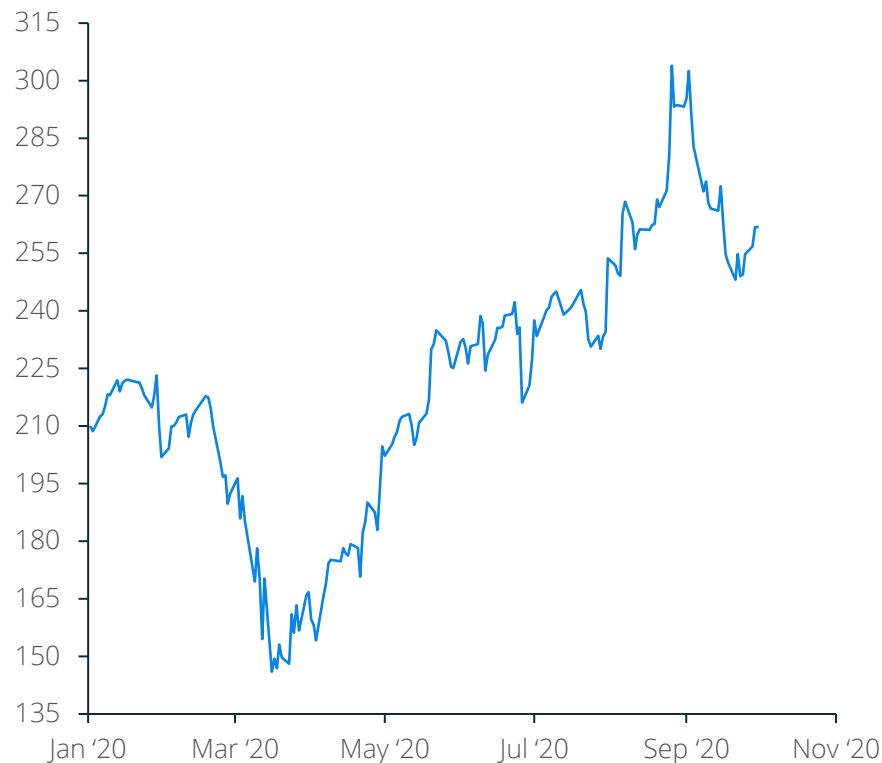
2: Includes YouTube non-advertising revenues (including YouTube Premium and YouTube TV subscriptions and other services), Google Play revenues from sales of apps and in-app purchases and digital content sold in the Google Play store, hardware (including Google Nest home products, Pixelbooks, Pixel phones and other devices), and other products and services

Sources: Alphabet Financial Statements Q2 '20, [Statista Google Brand Report](#)

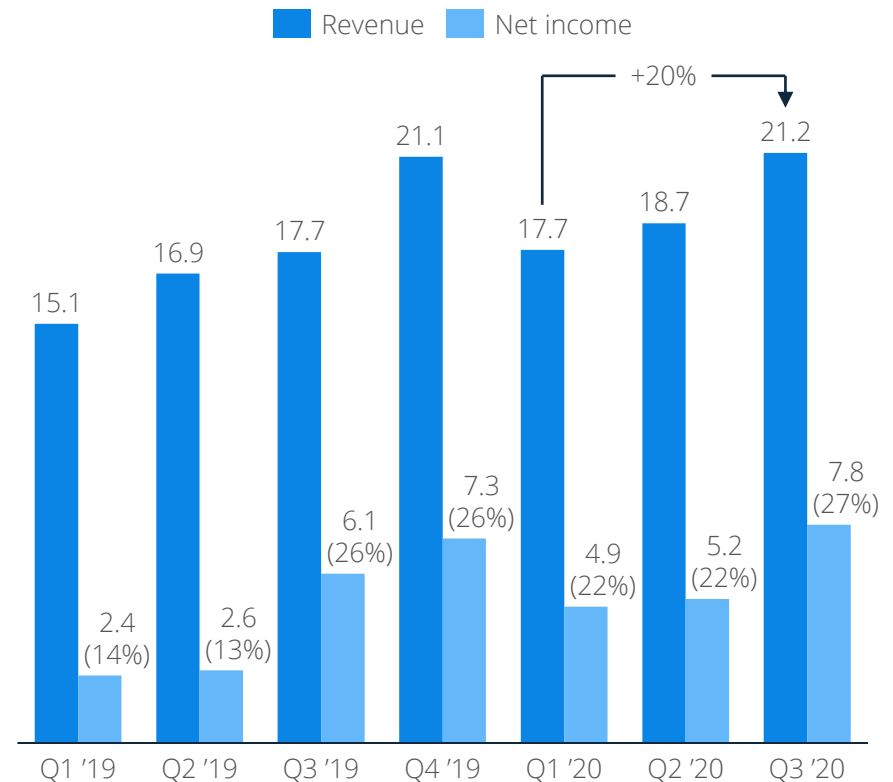
Facebook stock price increased until the end of Q3 '20, with revenues concurrently growing by 20%

facebook.

Facebook stock price in US\$



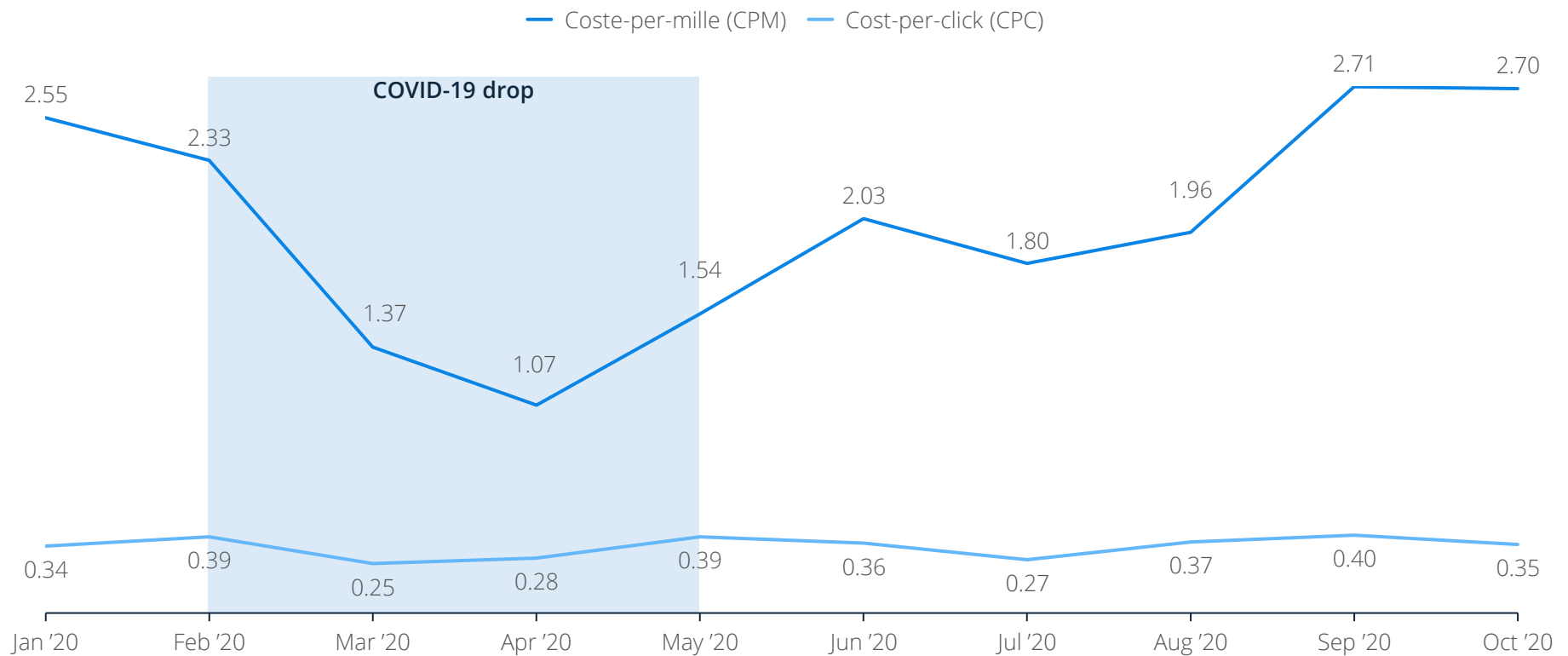
Facebook revenue and net income in billion US\$



Facebook ad prices showed significant COVID-19 impact but have recovered since May '20

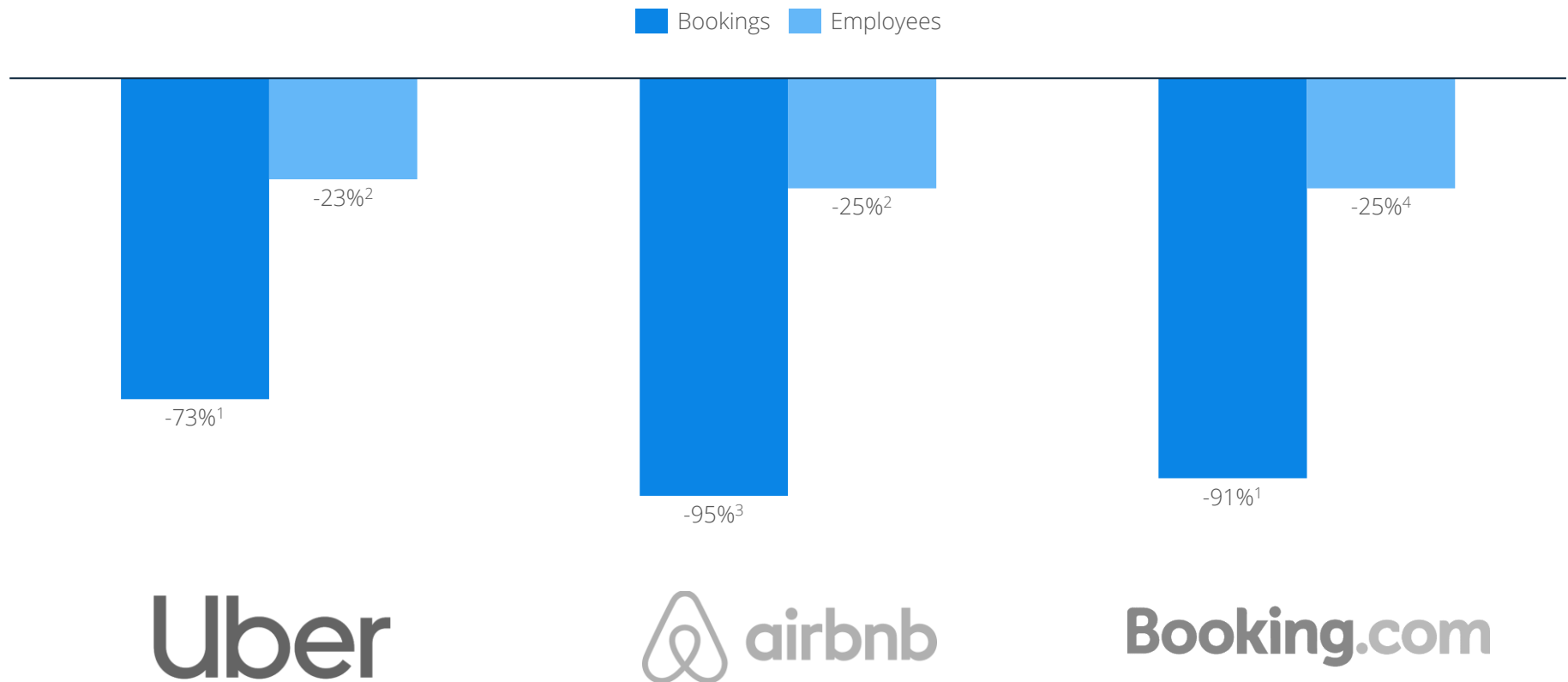
facebook.

Facebook & Instagram monthly cost-per-mille (CPM) & cost-per-click (CPC) in US\$



Other industries have experienced losses in the crisis, especially in mobility, accommodation, and travel

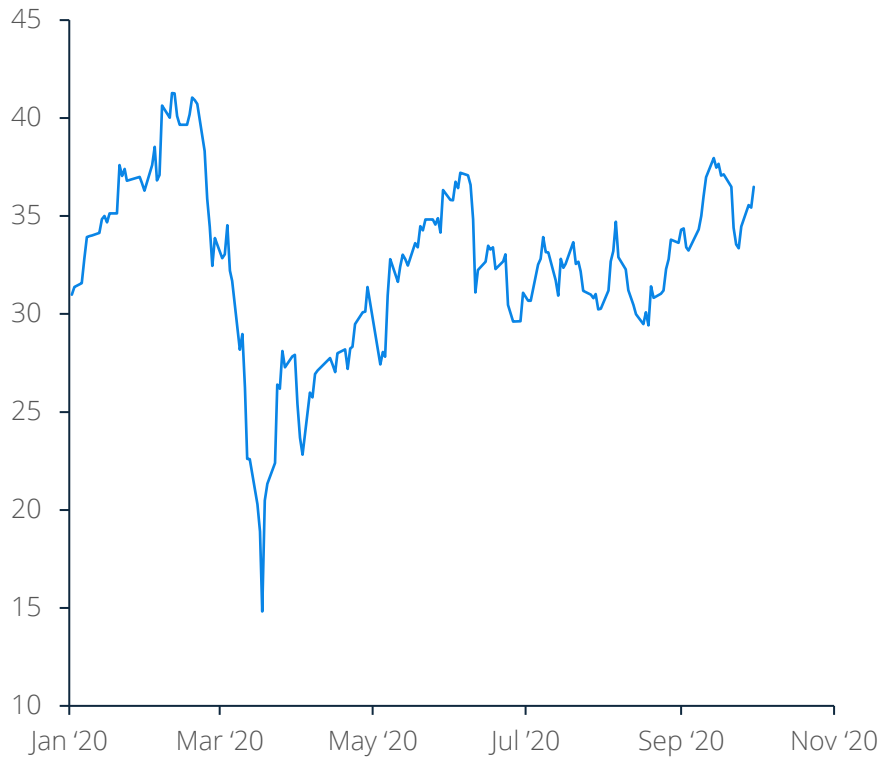
Key performance indicators of selected companies during COVID-19



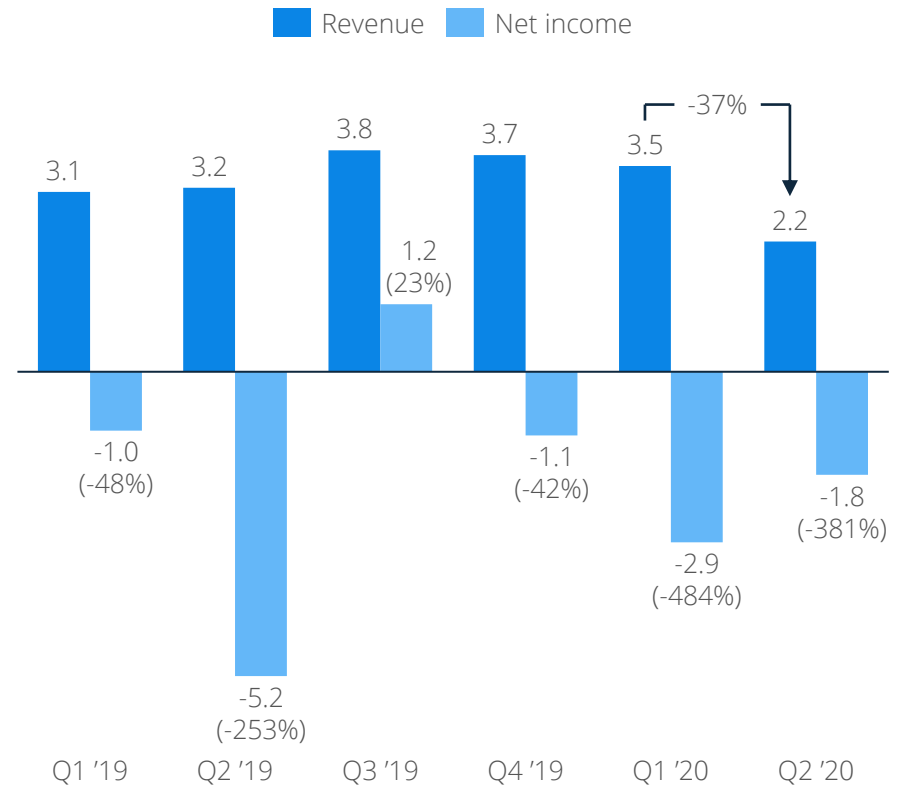
Uber stock price slightly decreased until end of Mar '20, with revenues concurrently declining by 37%

Uber

Uber stock price in US\$



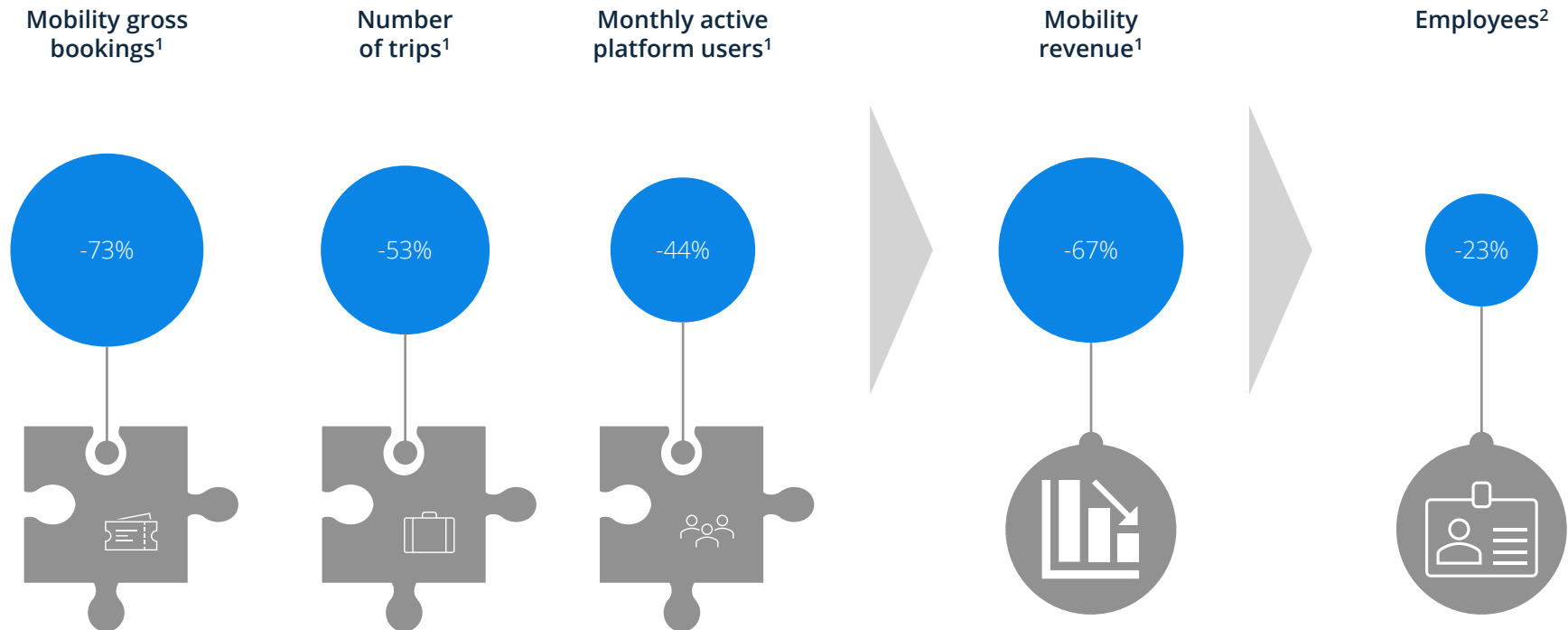
Uber revenue and net income in billion US\$



Uber experienced steep loss of bookings and app users, which quickly turned into revenue decline

Uber

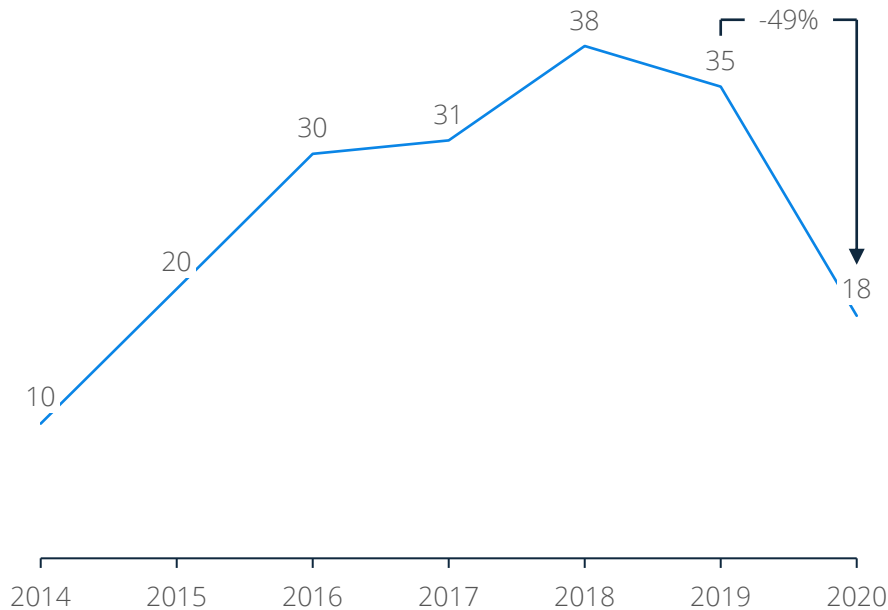
COVID-19 impact on selected Uber key performance indicators



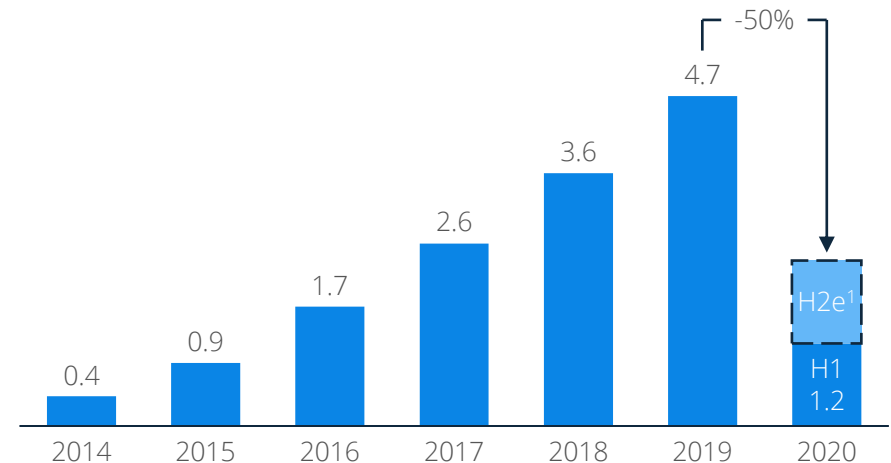
Airbnb valuation dropped by 49% in Apr '20, with revenues declining by an estimated 50% in 2020



Airbnb valuation in billion US\$



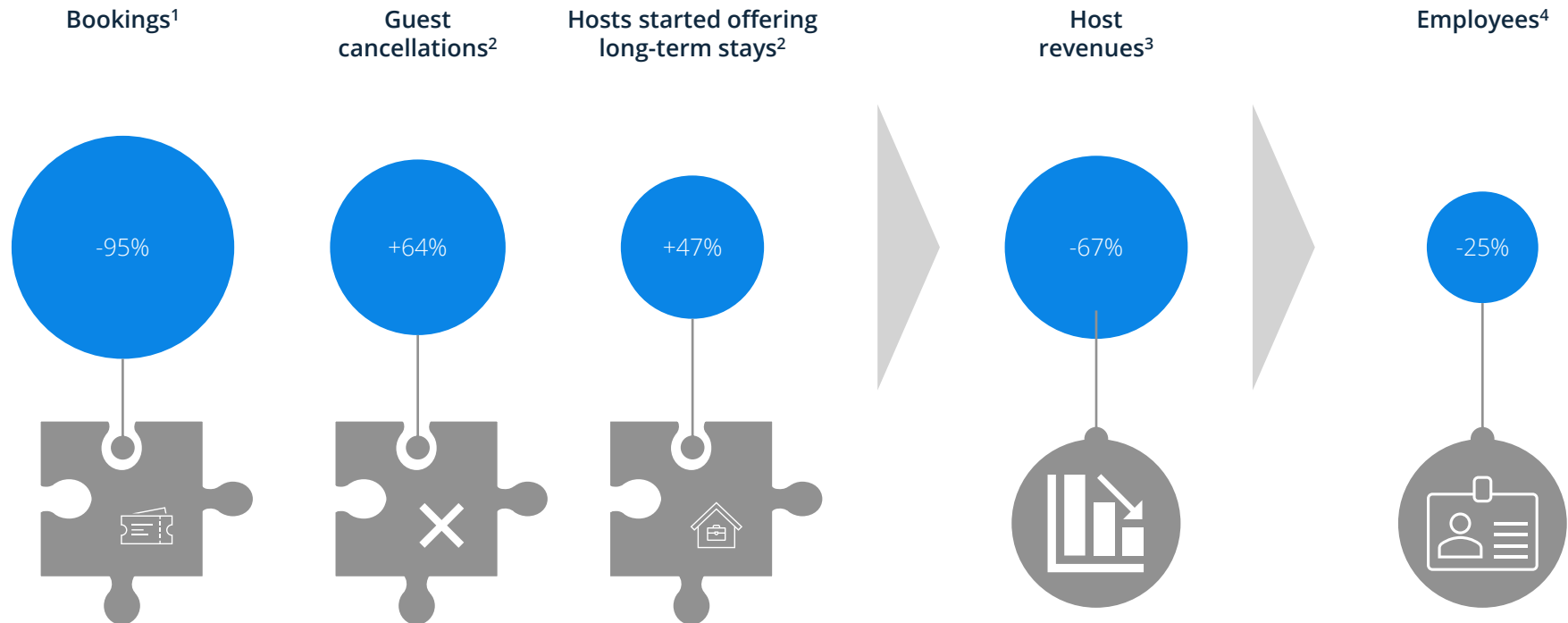
Airbnb revenue in billion US\$



Airbnb immediately experienced a near-complete loss of bookings



COVID-19 impact on selected Airbnb key performance indicators



1: Q1 '20 y-o-y, Q1 '20 result as of March 31, 2020 2: IPX 1031 survey of part-time and full-time Airbnb host as of June 1, 2020

3: June to August 2020 4: as of May 2020

Sources: eTurbonews.com, Transparent, Businessstoday, businessinsider, Forbes

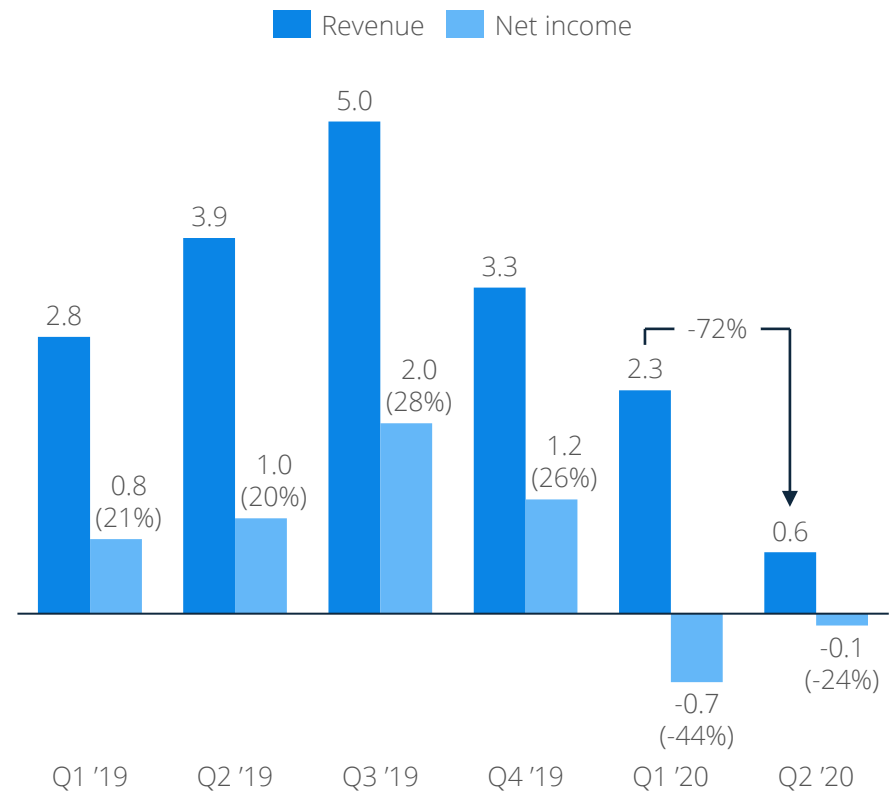
Booking.com stock price decreased until the end of Mar '20, with revenues concurrently declining by 72%

Booking.com

Booking.com stock price in US\$



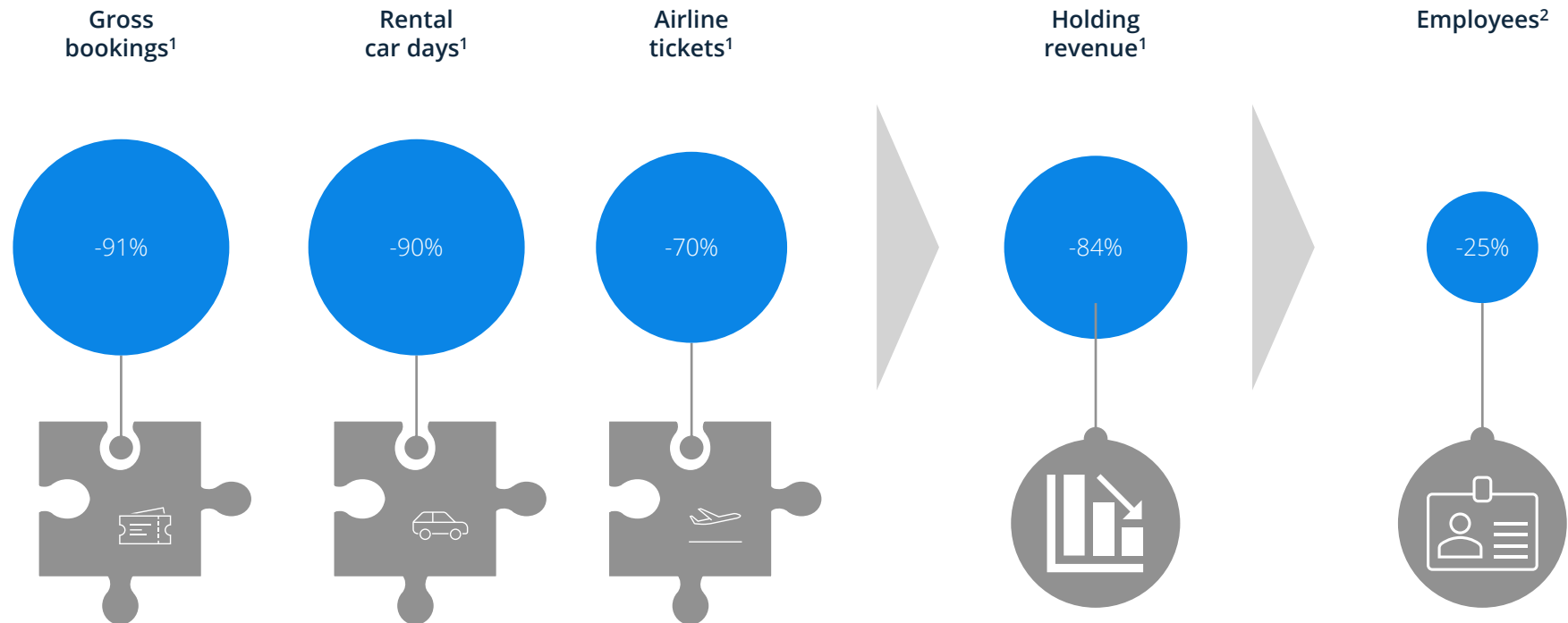
Booking.com revenue and net income in billion US\$



Booking.com felt the strong impact of COVID-19 as gross bookings plunged by 91% in Q2 '20

Booking.com

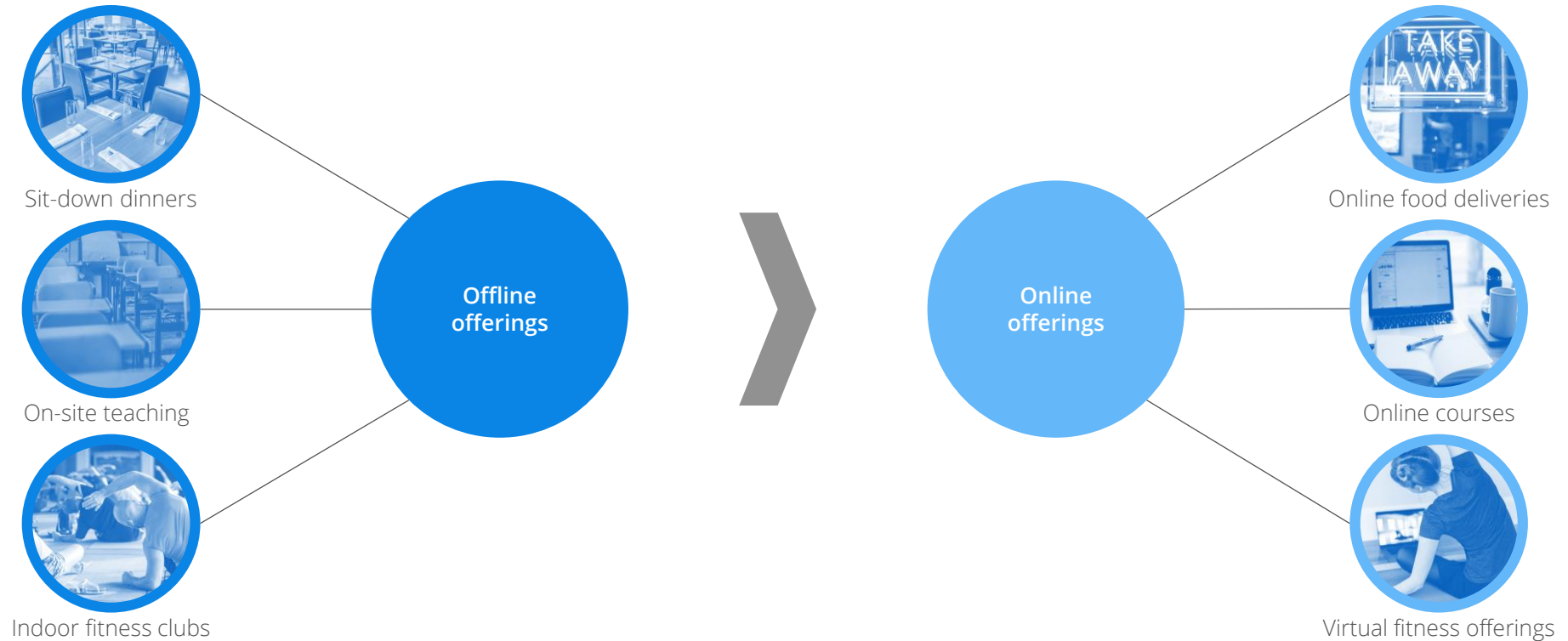
COVID-19 impact on selected Booking.com key performance indicators



Yet other industries faced economic disaster but became more resilient by transforming to digital

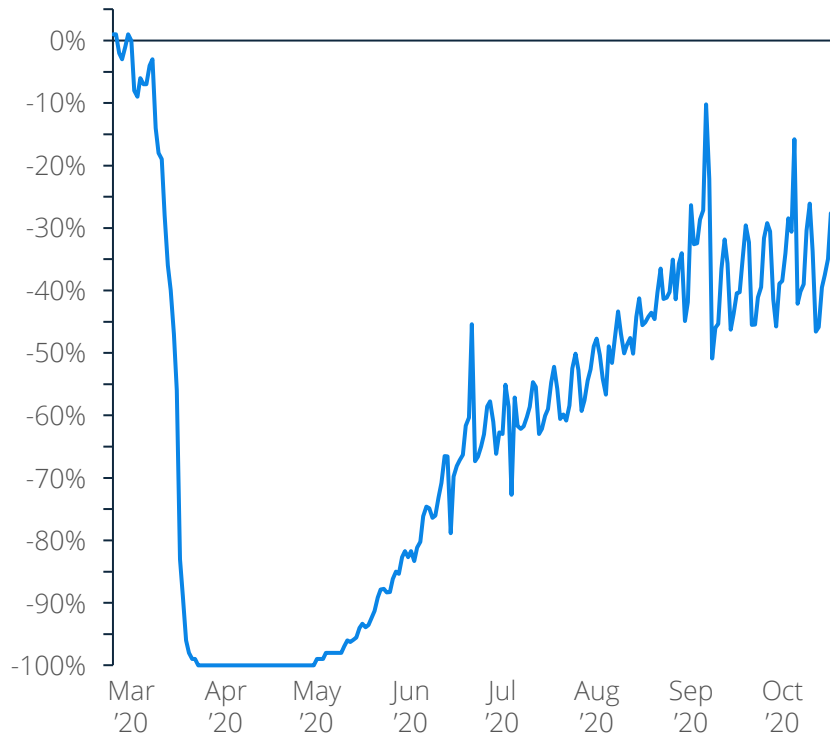
Indicative COVID-19 induced transformations of sample industries

● Pre-COVID-19 ● During COVID-19

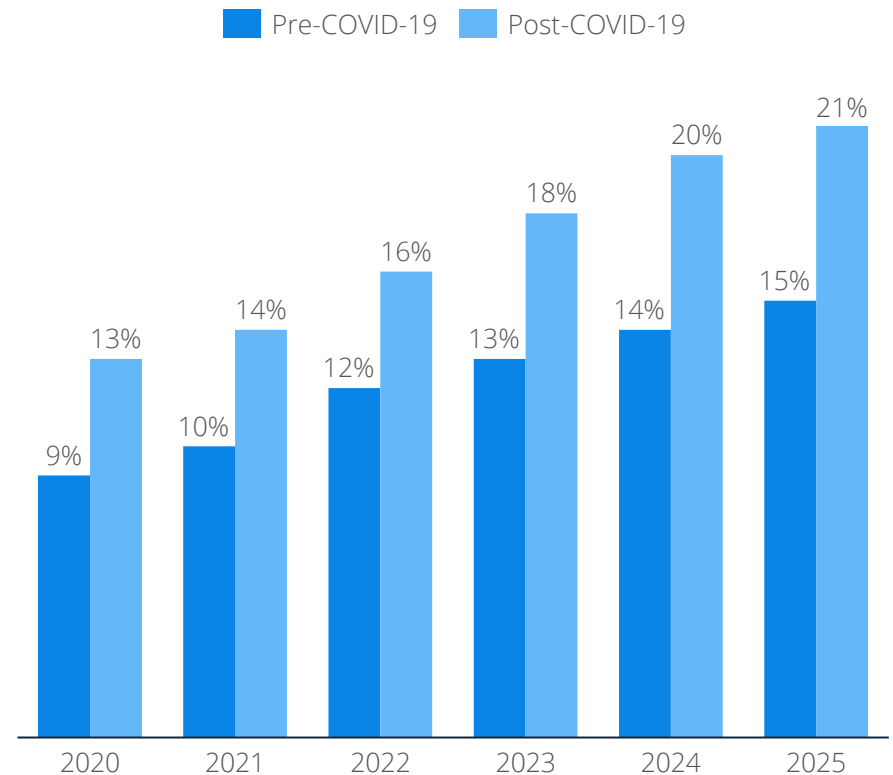


Restaurants as transformers turned to online food delivery to compensate for COVID-19 restrictions

Global y-o-y daily change in seated restaurant diners¹

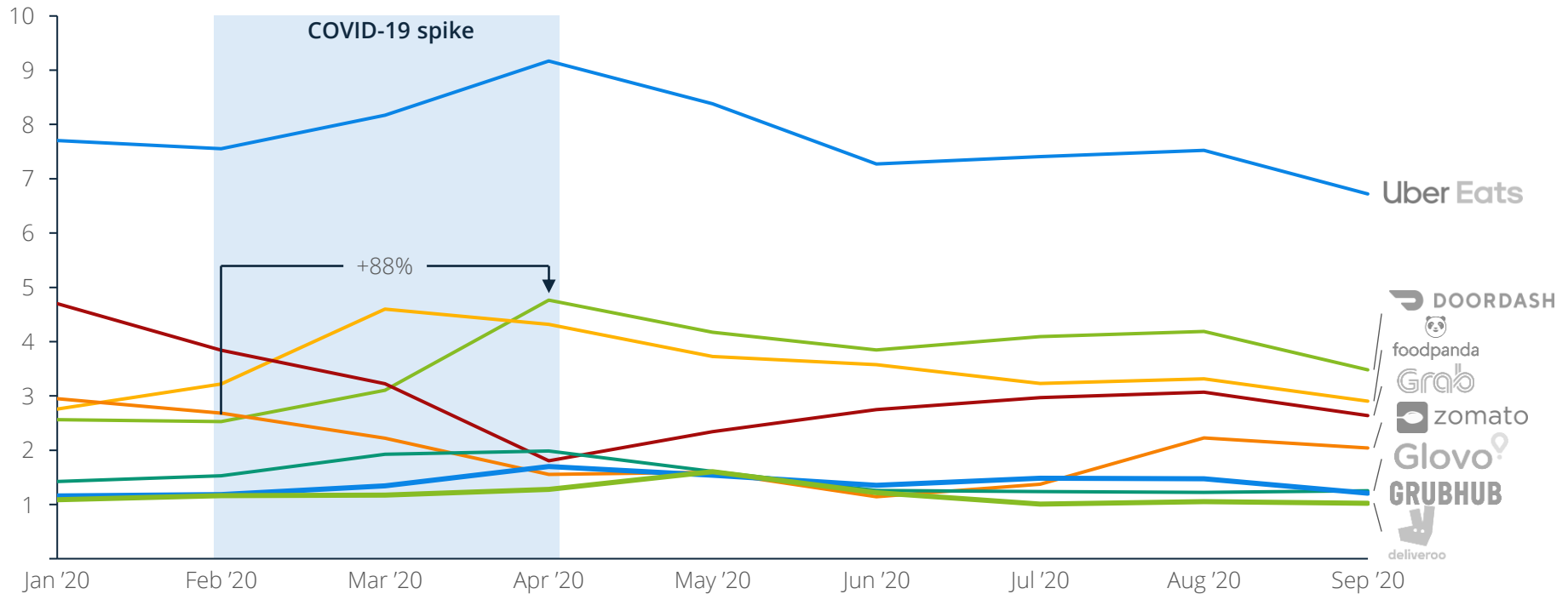


Change in online food delivery penetration in the U.S.



Online food delivery experienced a gold rush, driving food delivery app downloads up by as much as +88%

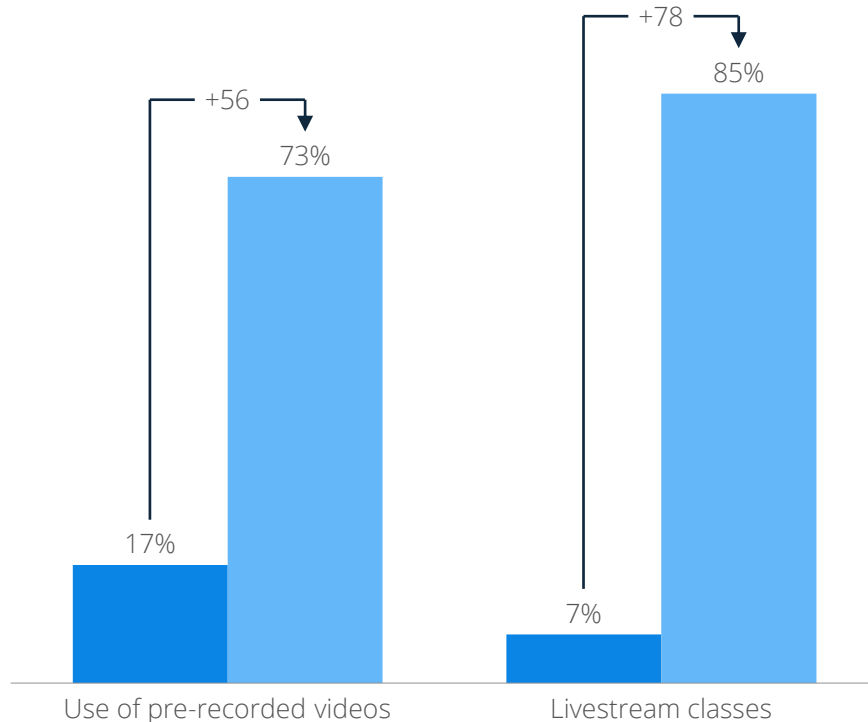
Global top food delivery app downloads in million



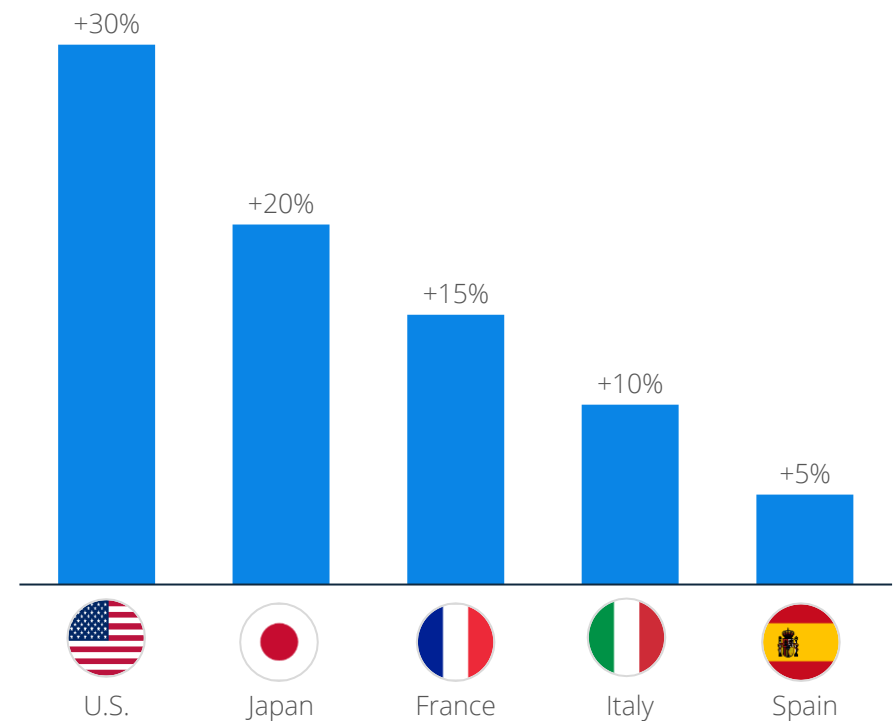
The health & fitness industry responded to COVID-19 with an increase in virtual content offerings

Changing shares in the use of virtual fitness content¹

■ Mar '19 - Jul '19 ■ Mar '20 - Jul '20



Change in weekly hours spent by users on health & fitness apps between Dec '19 and Mar '20²



1: as of July 2020
2: as of March 2020
Sources: Forbes, Appventurez

Health & fitness apps have become increasingly popular and offer a wide range of application areas

Selected key players in health and fitness apps

General fitness apps	Workout apps	Healthy eating apps
 Google Fit  FitNotes  adidas RUNTASTIC  SWÖRKIT  Better Me.  runkeeper  Calm  GoodRx  moveGB  headspace  Fiit	 PELOTON  Personal Fitness Coach  fitbit coach  JEFIT  7  myfitnesspal  Home Workout  WORKIT  MAPMYRUN  Fitness Coach	 Nutrients  Fooducate  MyPlate  MyNetDiary  EASY MEALS  Calorie Counter & Diet Tracker  Lifesum  Protein Tracker  SuperFood  Lose It!

eLearning and online learning platforms experienced high growth

Impact due to COVID-19 on the online learning platforms Coursera and Udemy



1: From mid-March to mid-April 2020 compared to same period in 2019 2: Between mid-March and June 2020 3: From May 1 to May 29, 2020 compared to same period in 2019 4: Free courses could be accessed between April 8, 2020 and December 3, 2020 5: Growth in March 2020 compared to February 2020 6: Growth as of April 2020 compared to April 2019 7: Courses were added on April 8, 2020
Sources: Coursera, Udemy, edexlive.com, Labsnews.com

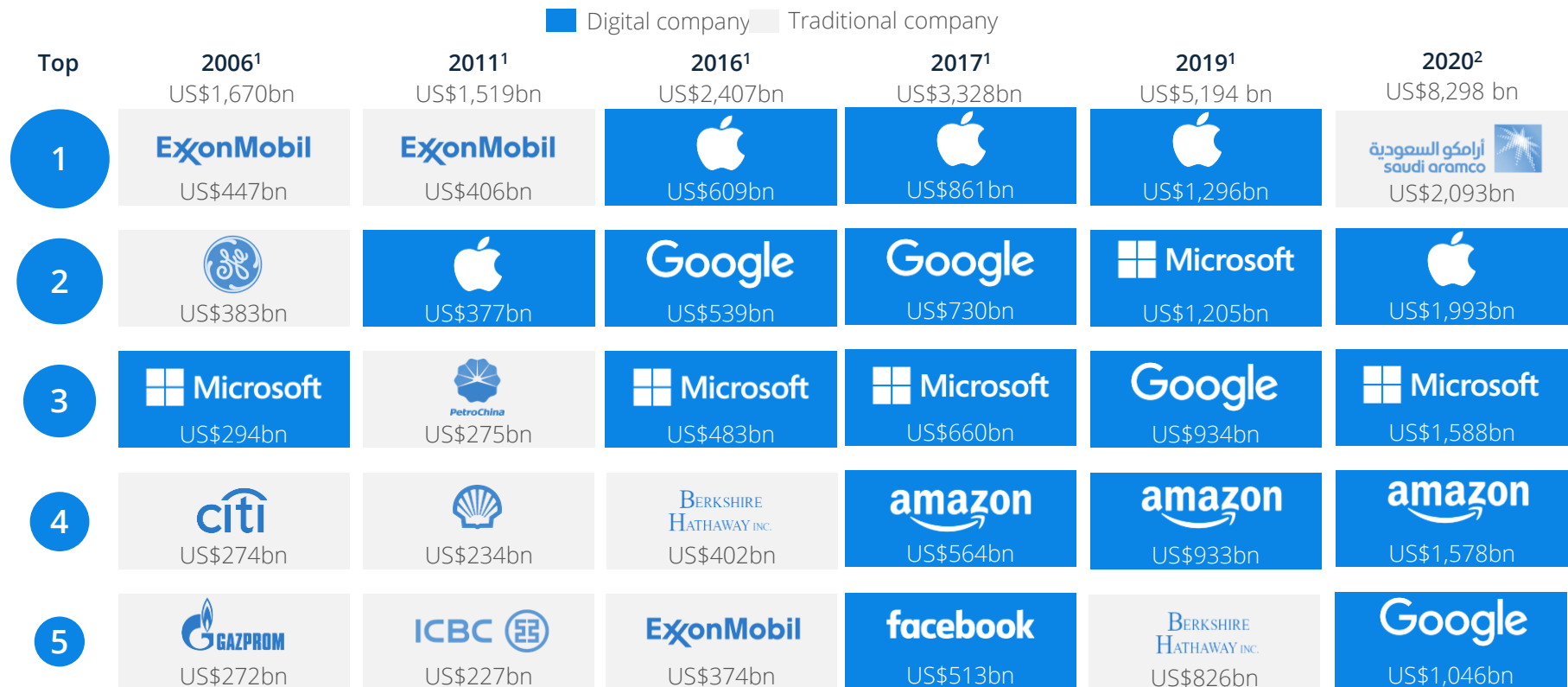
Online learning landscape professionalized into segments with key players establishing themselves

Selected key players in online learning

Online learning platforms	MOOC ¹	Serious gaming/gamification
       	            	     
Mobile education	Immersive learning	eBook rentals
      	  	       

The digital economy might have held its breath due to COVID-19 but is thriving once more

Most valuable companies by market cap in billion US\$



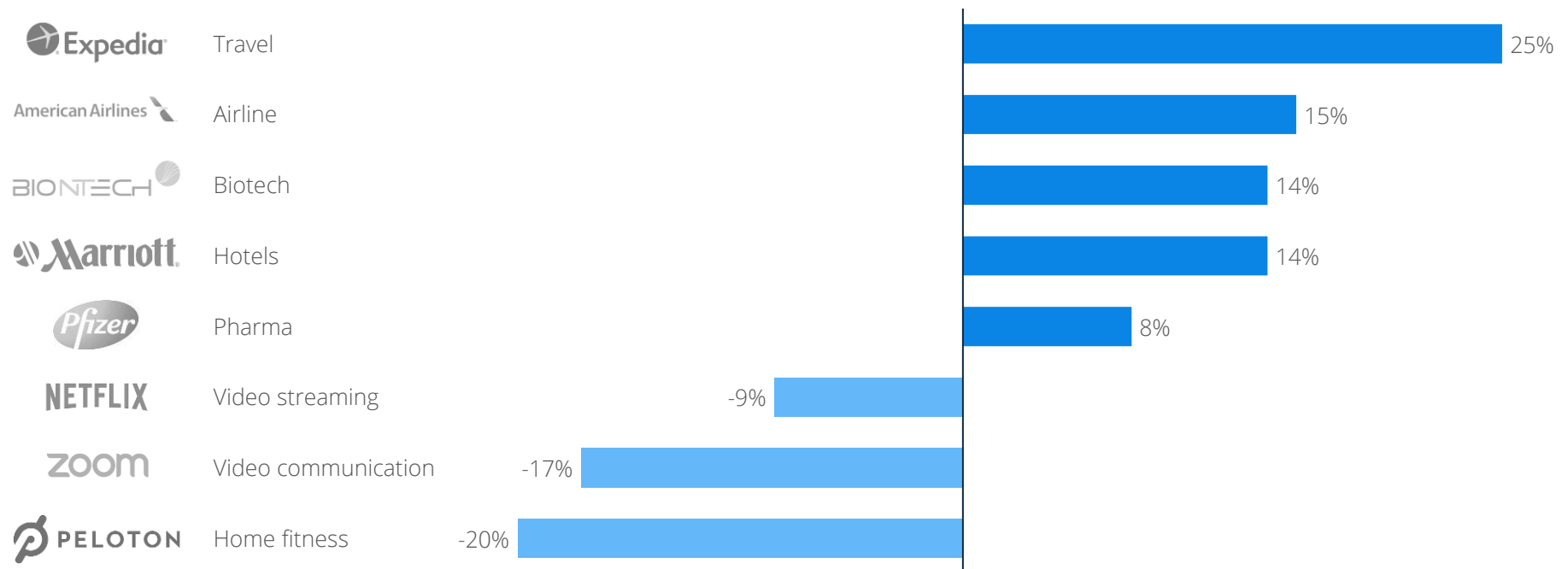
1: Valuation based on data from December 31 of the respective year

2: Year-to-date, valuation based on data from September 15, 2020

Sources: morningstar.com, Financial Times, Bloomberg, Value.today, stockapps.com, Forbes

Regardless the current situation, COVID-19 related actions have the potential to shift markets again

Impact of COVID-19 vaccine development on stock performance of selected companies



DIGITAL COVID-19 RESPONSES



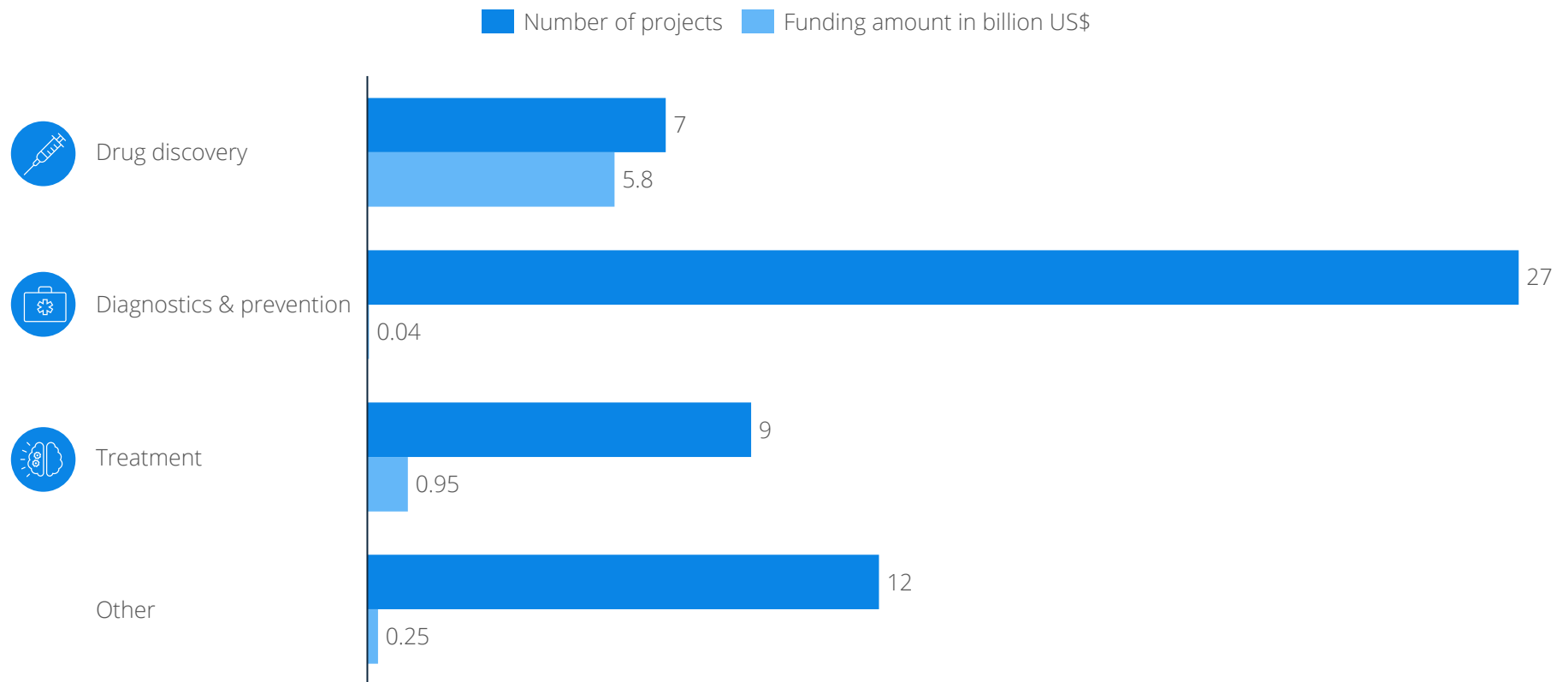
The digital COVID-19 response occurs on three fronts: discovery, diagnostics & prevention, and treatment

Selected digital players responding to COVID-19

Drug discovery	Diagnostics & prevention	Treatment
 Benevolent^{AI}       	 QuestDirectTM     	media4care      Working Together to Fight COVID-19 with Immunoglobulin (Ig) Therapy

U.S. government investments in COVID-19 research have skyrocketed, thus fueling the industry

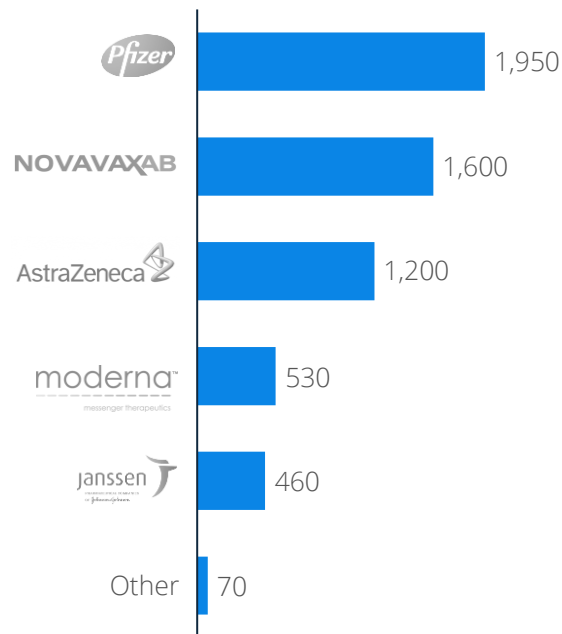
U.S. government's COVID-19 funding



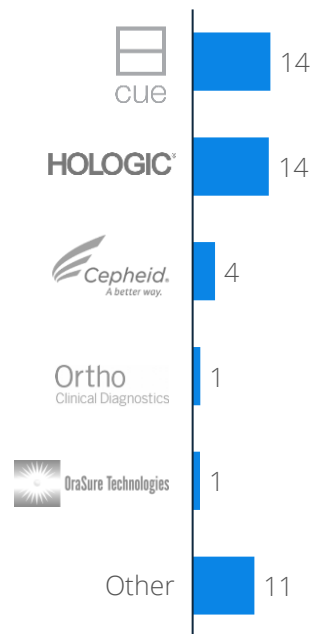
Leading players to receive U.S. COVID-19 research grants are Pfizer, Cue Health, and Regeneron

Distribution of U.S. government COVID-19 grants in million US\$

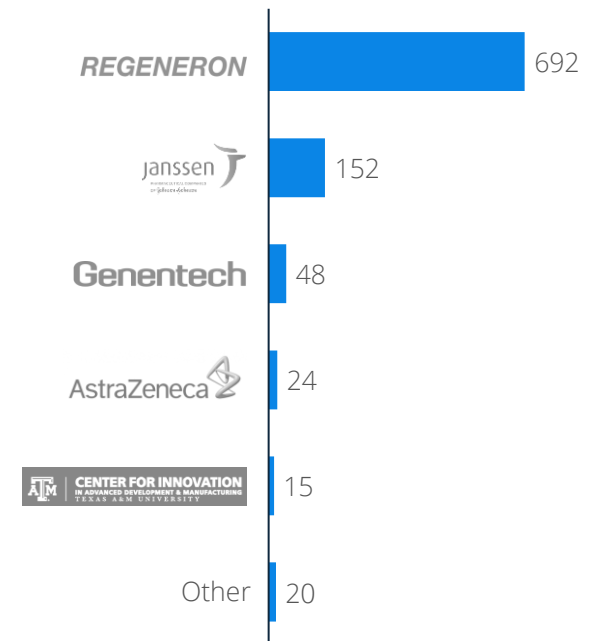
Top five players in drug discovery



Top five players in diagnostics & prevention

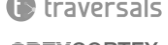
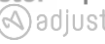
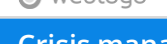


Top five players in treatment



Digital companies, mostly in data analytics, health, and new work, support the response to COVID-19

Selected start-ups working on COVID-19 responses

HR	Risk/data analytics	New work	Community	Health
 retorio  TALENTCUBE  carewithcare  SKILLARY	 Climedoscale  inspirient  appinio  traversals  statista  GREYCORTEX  CIVEY  coronika  castor  polyteia  adjust  TakeTask	 quodox  publicplan  CAYA  Jolt  SlidePresenter  LiveChat  VALSIGHT  enabley  Grover  Zenkit  echometer  Staffbase  SOSAFE  SPENDIT AG  webtogo	 nebenan.de FÜR LOKALES GEWERBE  Unipos  HilfeLokal.de Powered by  optipay	 CASPAR  media4care  CLINISERVE  evermood  KRY  medGo  cerascreen  idana  midge  BLUSENSE  symptoma better diagnosis
Automation	Retail & consumer	Crisis management	Education	
 neohelden  VITAS  SPECTRM  Hilfe Lokal.de	 NAVVis  Glovo  ESHOP GUIDE	 Taxy.io  PREVISEC  SERINUS  alarmdispatcher	 edyoucated  ANTON  StudySmarter  Studybees  Kognity  Sdui  StuDocu.com  sofatutor  ubiMaster	 aidminutes  GYANT  Allm SHAPING HEALTHCARE  TeleClinic  SeDiDoc  verisana LAB  Caseform  doctorlink  simplinic  pfllege.de

COVID-19 has prompted more robot usage around the world to fight the pandemic

Global reported use of robots as COVID-19 response

Laboratory and supply chain automation

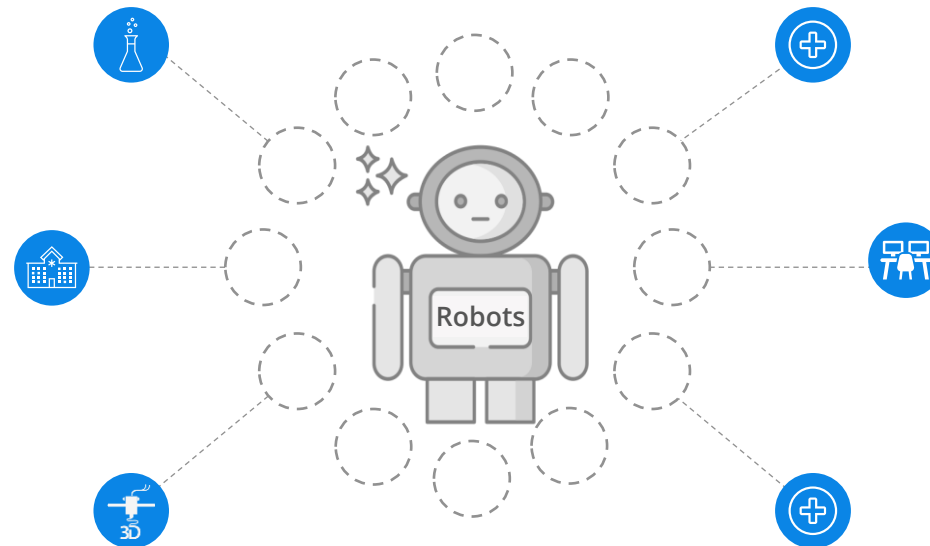
- Laboratory automation
- Handling of infectious materials

Clinical care

- Disinfection at point of care
- Patient intake & visitors

Production of 3D printed tools

- Nasopharyngeal swab
- Face shields/masks



Public safety and non-clinical public health

- Temperature measurement

Work, critical infrastructure, and quality of life

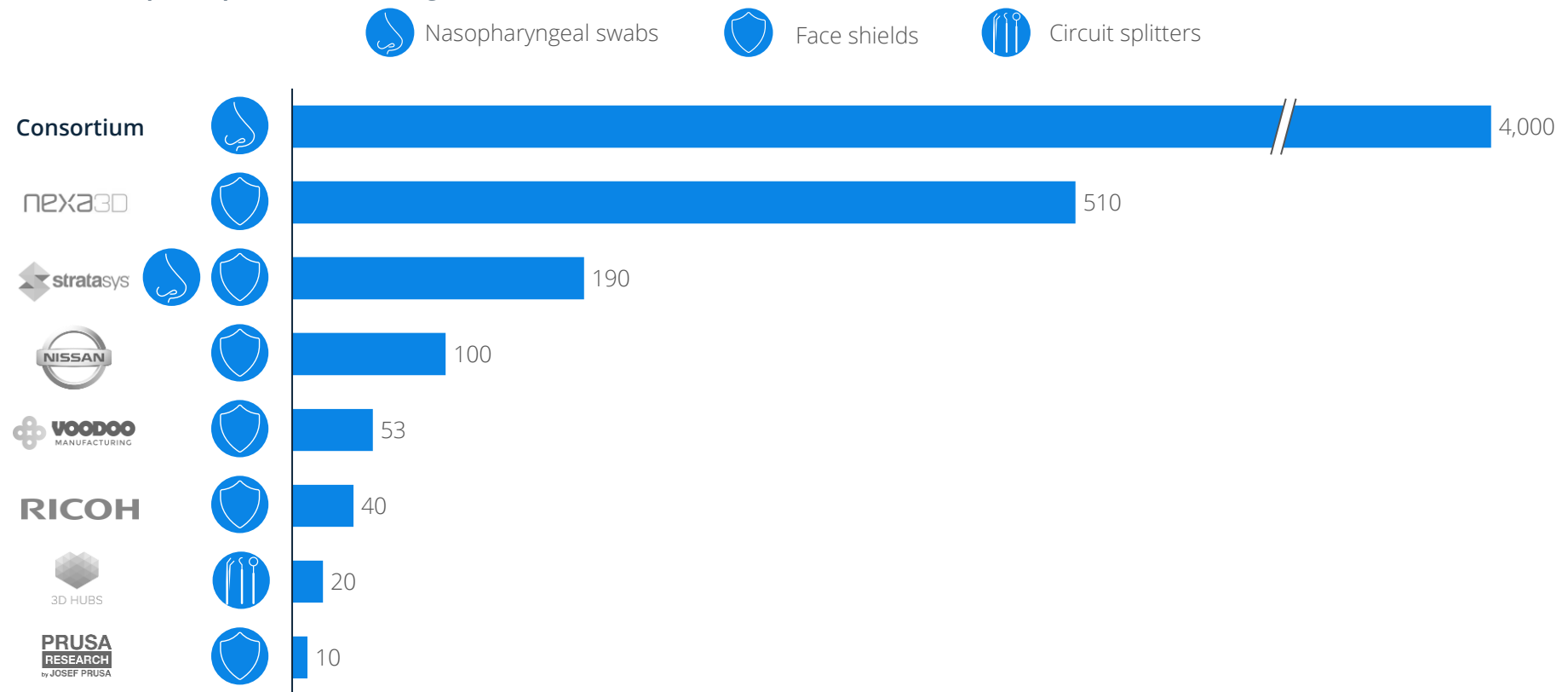
- Telecommerce
- Protection of critical infrastructure
- Robot assistants

Non-hospital care

- Delivery to quarantined
- Off-site testing

3D printing has proven to be a particularly relevant technology for reacting quickly to new demands

Global 3D parts produced during COVID-19 in thousand¹



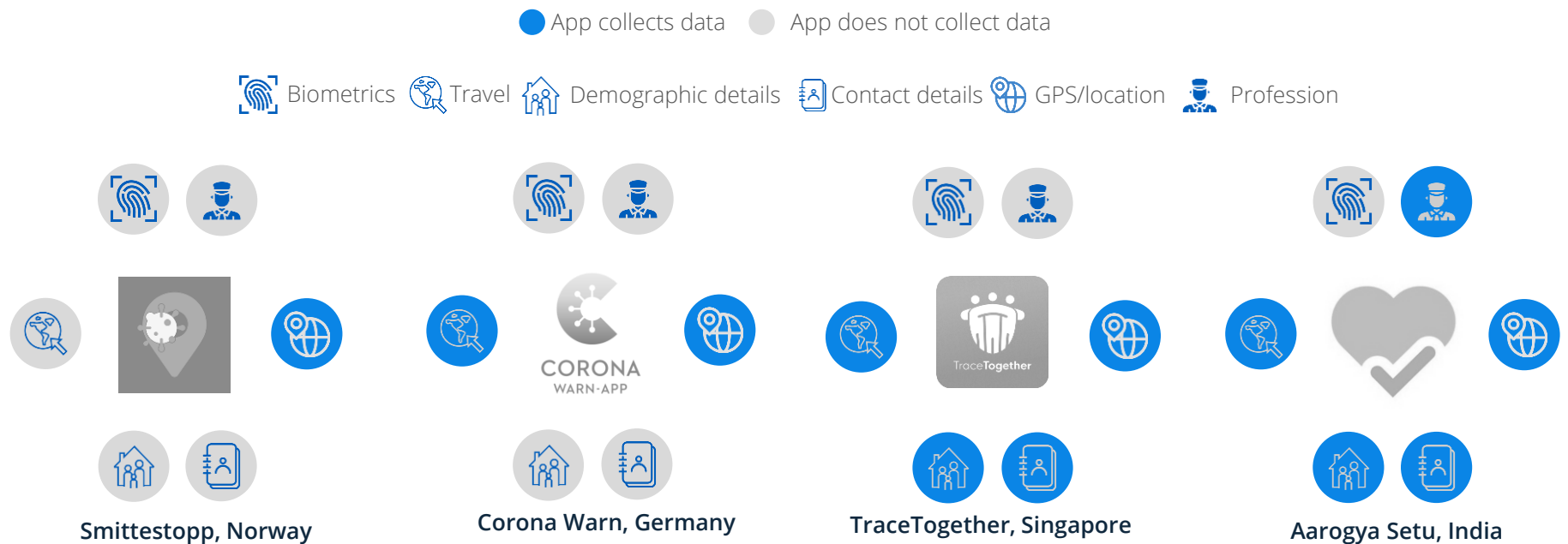
Contact tracing apps, too, have proven to be of utmost importance to battle COVID-19

Selected contact tracing apps

Americas					Asia Pacific				
									
Argentina	Brazil	Canada	Chile	Colombia	Australia	Bangladesh	India	Japan	Hong Kong
									
Ecuador	Ecuador	Peru	U.S.	Uruguay	Singapore	Indonesia	Malaysia	Fiji	New Zealand
Europe					Middle East and Africa				
									
Austria	Belgium	Czech Republic	Denmark	France	Bahrain	Ghana	Jordan	Kuwait	Morocco
									
Germany	Hungary	Ireland	Norway	UK	Qatar	Saudi Arabia	South Africa	Tunisia	UAE

Major contact tracing apps collect and use various types of data to provide their services

Data types collected by major COVID-19 contact tracing apps

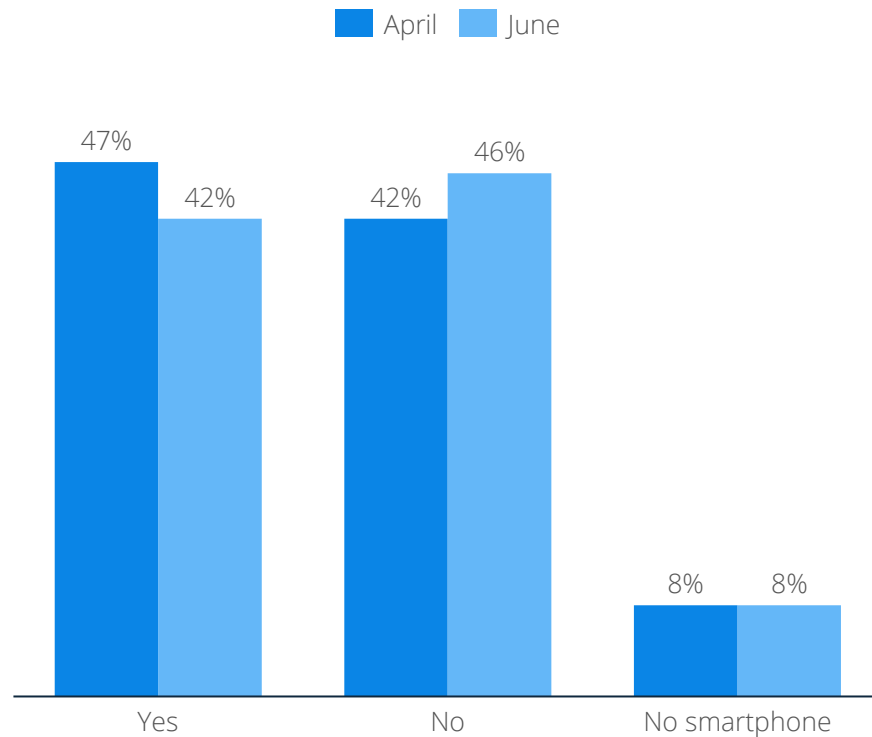


Amount of collected data

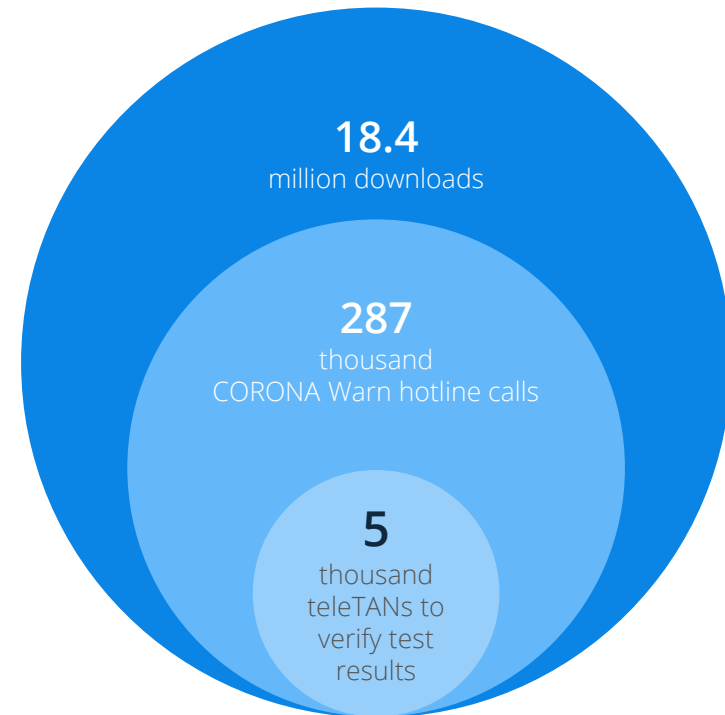
Contact tracing in Germany is done through the well accepted, nationally rolled-out, app CORONA WARN



Share of people who would use an app providing information on people infected with COVID-19¹



Results of first 100 days of CORONA WARN-APP²



1: n=1,323 respondents in April 2020, 1,270 respondents in June 2020

2: as of September 2020

Sources: Forschungsgruppe Wahlen, RKI

Consumers perceive various concerns and risks when using contact tracing apps for COVID-19

Contact tracing apps during COVID-19

71%



of Americans are unwilling to use COVID-19 contact tracing apps due to their concern about data privacy

45%



of Singapore's residents are afraid to download the TraceTogether app because of data privacy concerns

93%



of IT professionals were at least slightly concerned about the collection of personal data of contact tracing apps³

22%



is the highest contact tracing app adoption rate, estimated in July for Australia¹

15%



adoption rate can already lead to 12% fewer deaths and 15% fewer infections over the course of 300 days²

1: as of July 14, 2020 2: According to a model ran for a study from Oxford University and Google "Modeling the combined effect of digital exposure notification and non-pharmaceutical interventions on the COVID-19 epidemic in Washington state"

3: n=300 IT professionals in August 2020

Sources: Financial Express, SCMP, Securityprivacybytes, Avira, Sensor Tower, MIT Technology Review, SecureAge

A person with dark hair is wearing a black VR headset and adjusting it with both hands. They are in a room with a large computer monitor in the background displaying a grid of icons. The entire image has a blue color overlay.

2

DIGITAL HUMAN

DIGITAL CONSUMER BEHAVIOR



Led by video streaming and gaming, in-home media consumption changed

Changes in consumer behavior during COVID-19

44%



increase of in-house social media consumption^{1, 2}

70%



of people spent more time on their smart-phone/mobile phone^{1, 3}

80%



higher traffic on media sites⁴

67%



of people watched more news coverage¹

28%



more video streaming users for key players in 2020

39%

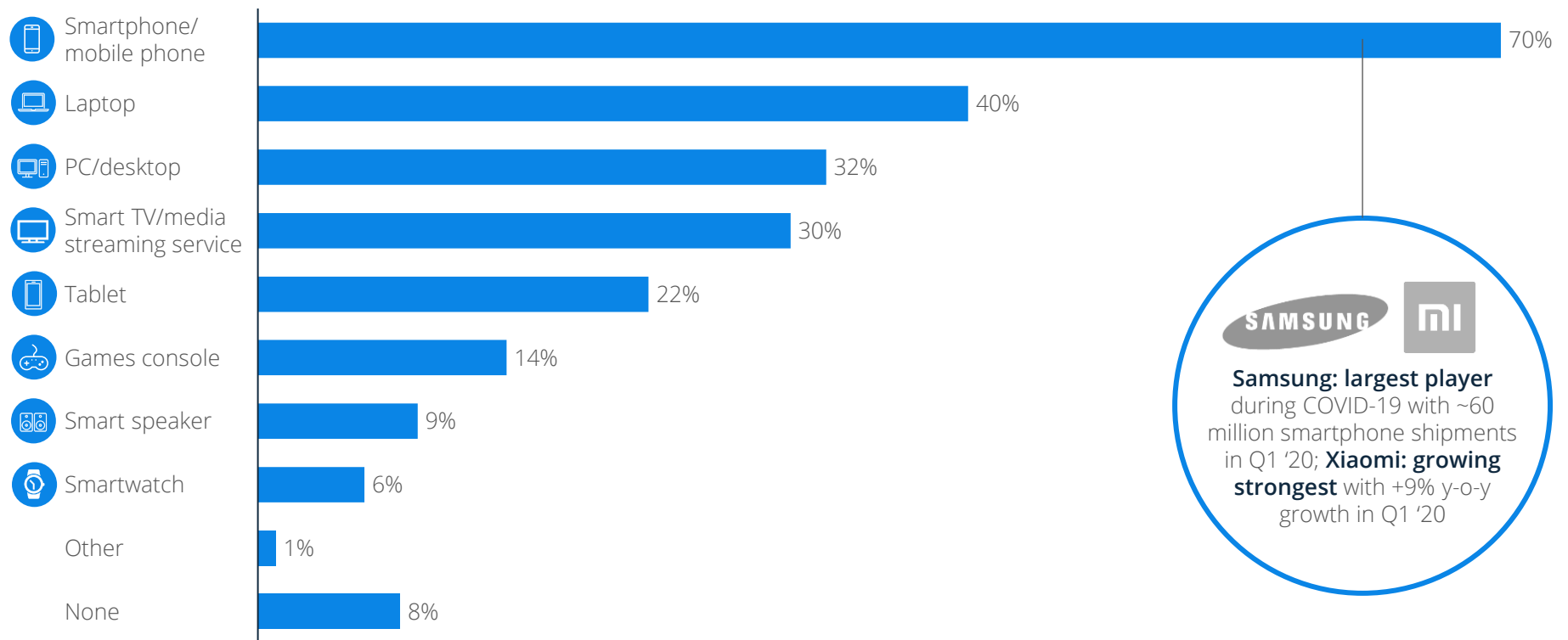


increase in U.S. video game sales in 2020⁵

1: March 16 to 20, 2020 2: "Which of the following have you been doing at home, because of the coronavirus/COVID-19 outbreak?" 3: "Which device(s) have you been spending more time using since the start of the coronavirus/COVID-19 outbreak?" 4: CW11-CW12 2020 compared to reference (January 6 to February 16) 5: March to August 2020 compared to March to August 2019
Note: More information in the [Statista Dossier "Coronavirus impact on media consumption worldwide"](#)
Sources: GlobalWebIndex, as of March 2020, ContentSquare, as of March 22, 2020, Netflix financial statements, as of Q2 '20, The Walt Disney Company Results, as of Q3 '20, Technology Ihs, Techcrunch, The Verge, Variety, Venturebeat, Statista

70% of consumers increased their time using a smartphone during COVID-19

Globally increased device usage at the onset of the COVID-19 outbreak¹



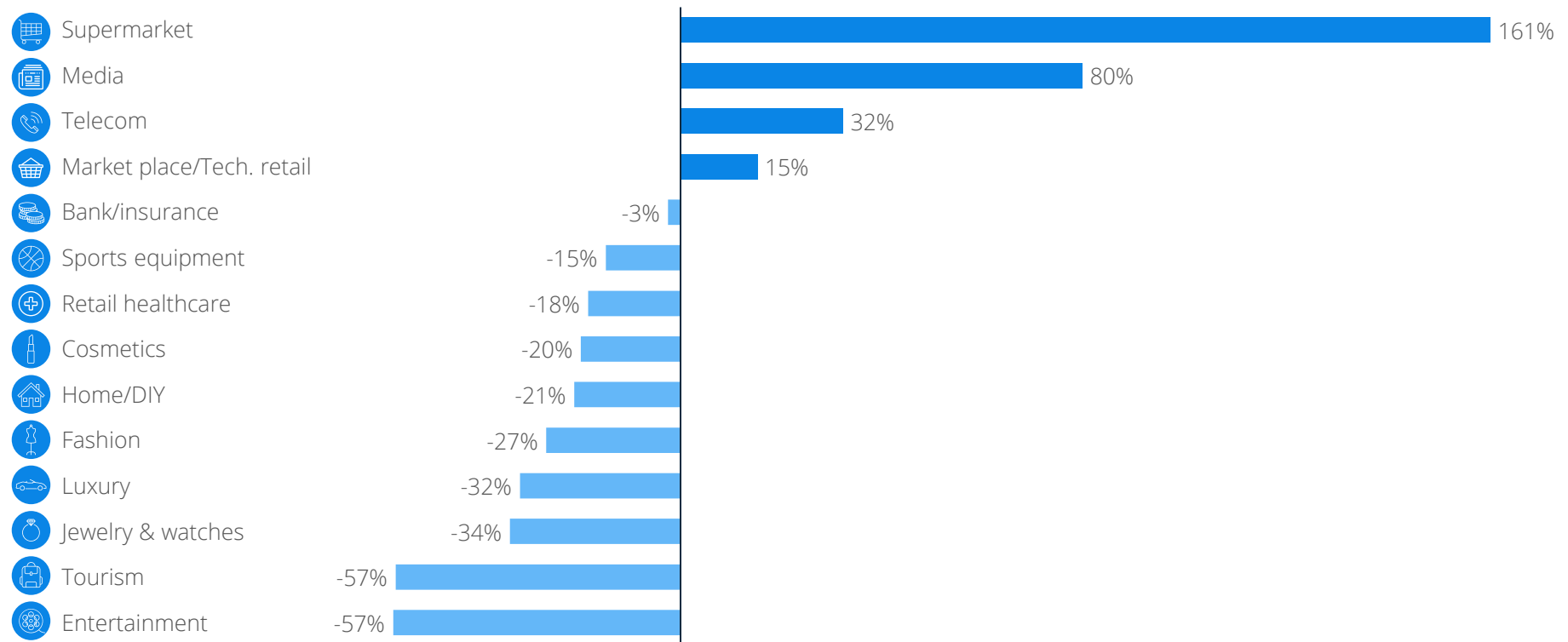
1: March 16 to 20, 2020; "Which device(s) have you been spending more time using since the start of the coronavirus/COVID-19 outbreak?"

Note: More information in the [Statista Dossier "Coronavirus impact on media consumption worldwide"](#)

Sources: GlobalWebIndex, as of March 2020, Canals Smartphone Analysis, as of April 2020, Statista

Consumer online interests shifted during COVID-19 and pushed web traffic to supermarkets and media

COVID-19 impact on online traffic¹



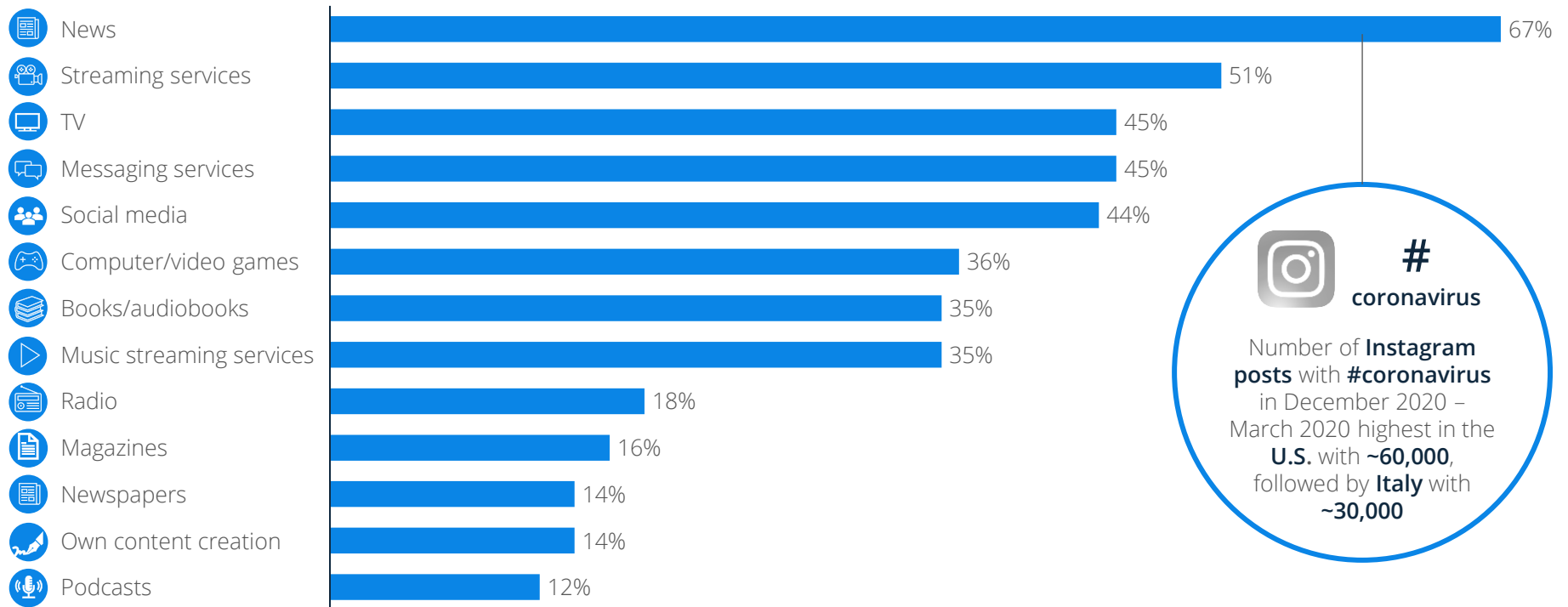
1: Week ending on March 16, 2020 to week ending on March 22, 2020 compared to reference (January 6 to February 16), 1,400 sites, 4.8b sessions and 23bn page views over the final 11 weeks of 2020

Note: More information in the [Statista Dossier "Coronavirus impact on media consumption worldwide"](#)

Sources: ContentSquare, as of March 22, 2020, Statista

Content consumption moved towards news, streaming, TV, messaging, and social media

Global increase of in-home media consumption at the onset of the COVID-19 outbreak¹



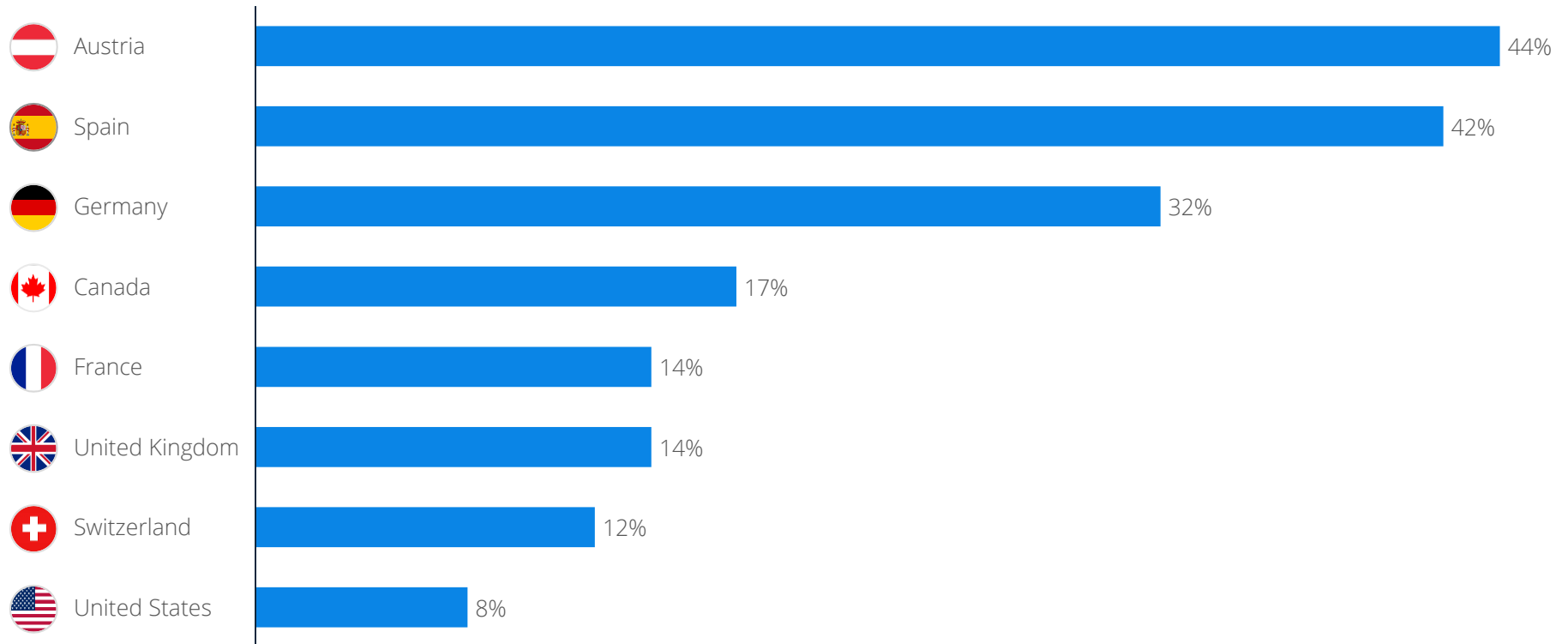
1: March 16 to 20, 2020; "Which of the following have you been doing at home, because of the coronavirus/COVID-19 outbreak?"

Note: More information in the [Statista Dossier "Coronavirus impact on media consumption worldwide"](#)

Sources: GlobalWebIndex, as of March 2020, HypeAuditor, as of March 2020, Statista

Video streaming spiked as soon as COVID-19 hit, with the most growth seen in Austria, Spain, and Germany

Growth in time spent streaming TV and video in March 2020¹



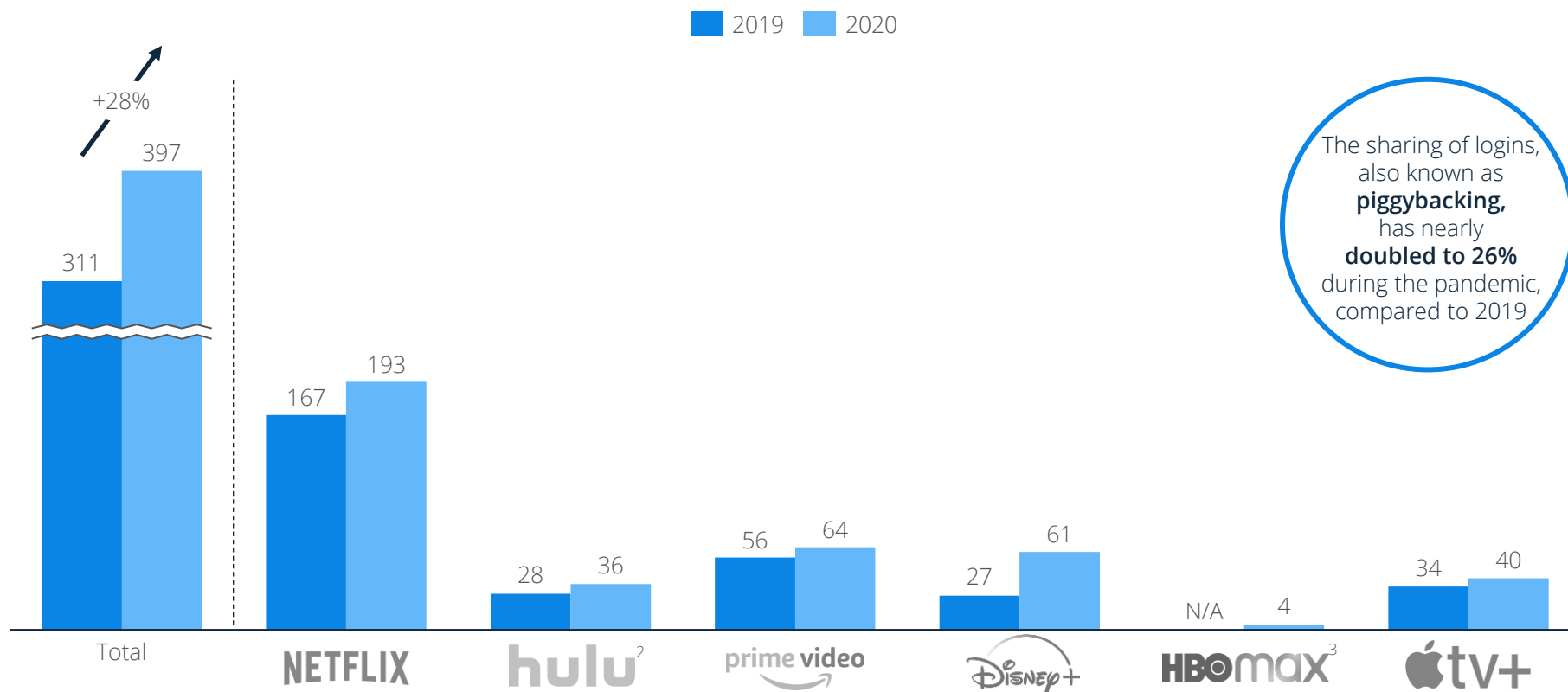
1: March 13 to 14, 2020

Note: More information in the [Statista Dossier "Coronavirus impact on media consumption worldwide"](#)

Sources: Bloomberg, Wurl, Strategy Analytics, Digital TV Europe, Statista

Number of subscriptions for key video streaming providers increased by 28% in 2020

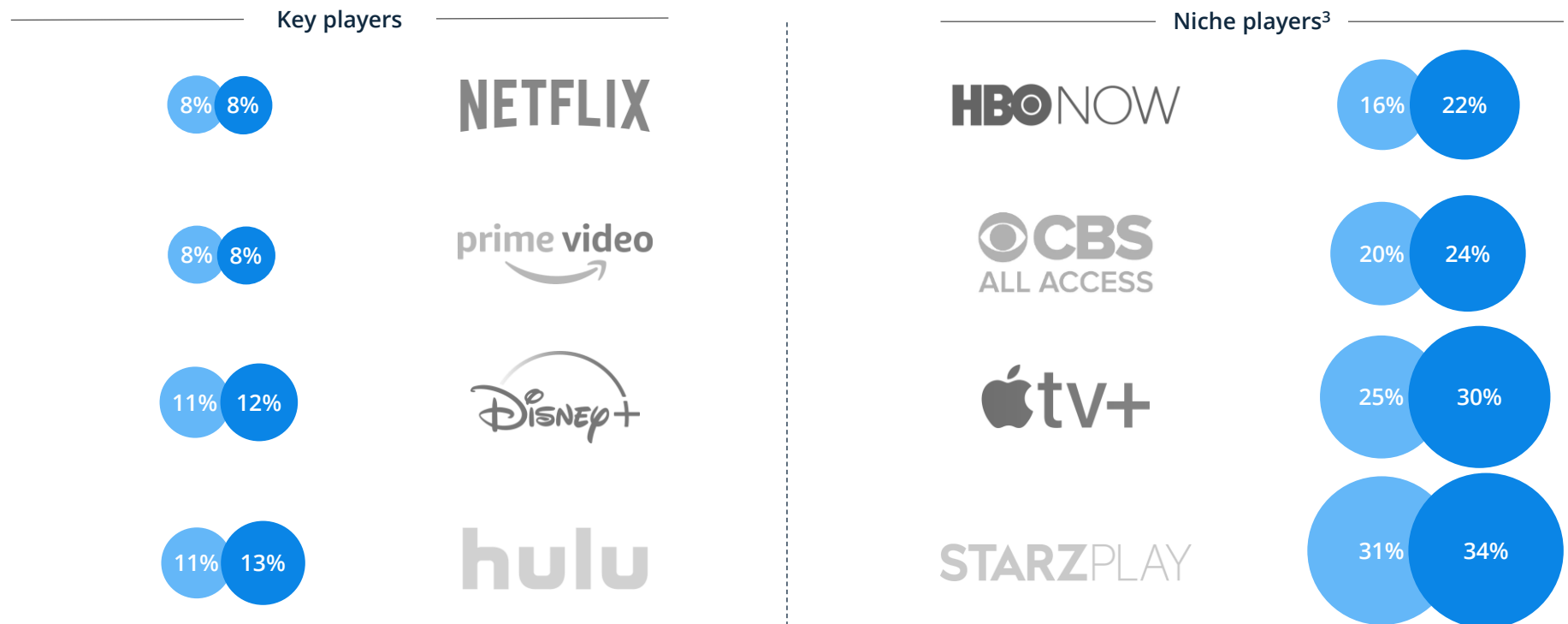
Number of global subscriptions for key SVoD providers in million¹



The rapid increase of video streaming subscribers increased churn risks, especially for smaller players

Churn risk of users who acquired a VoD¹ service²

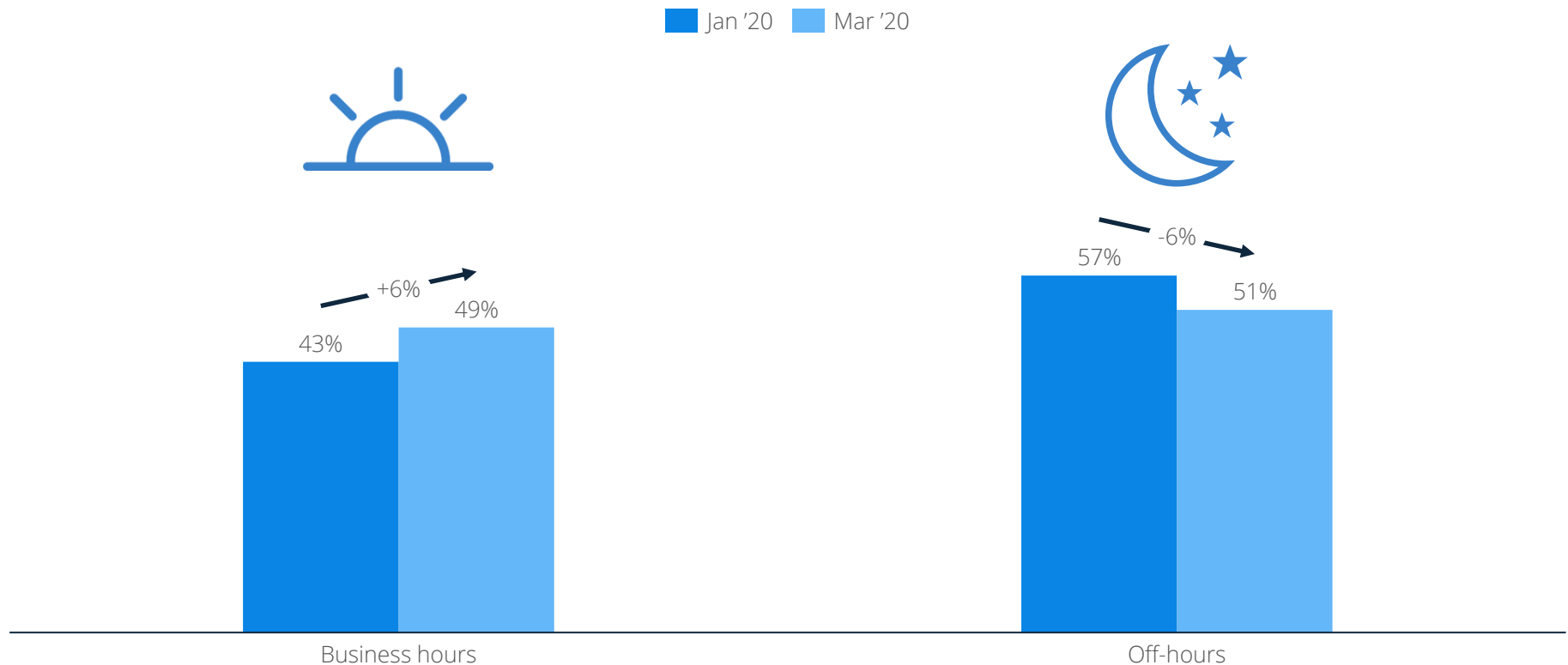
● Pre-COVID-19 (Dec '20) ● During COVID-19 (Apr '20)



1: VoD=Video-on-Demand 2: Surveyed 6,000 OTT users in April 2020 and 3,000 OTT users in December 2020, % of respondents who intend to leave an OTT service 3: Niche services also include showtime anytime
Sources: BCG

As consumers spent more time at home, video streaming activity shifted towards business hours

Video streaming audience distribution during business vs. off-hours in the U.S. 2020¹



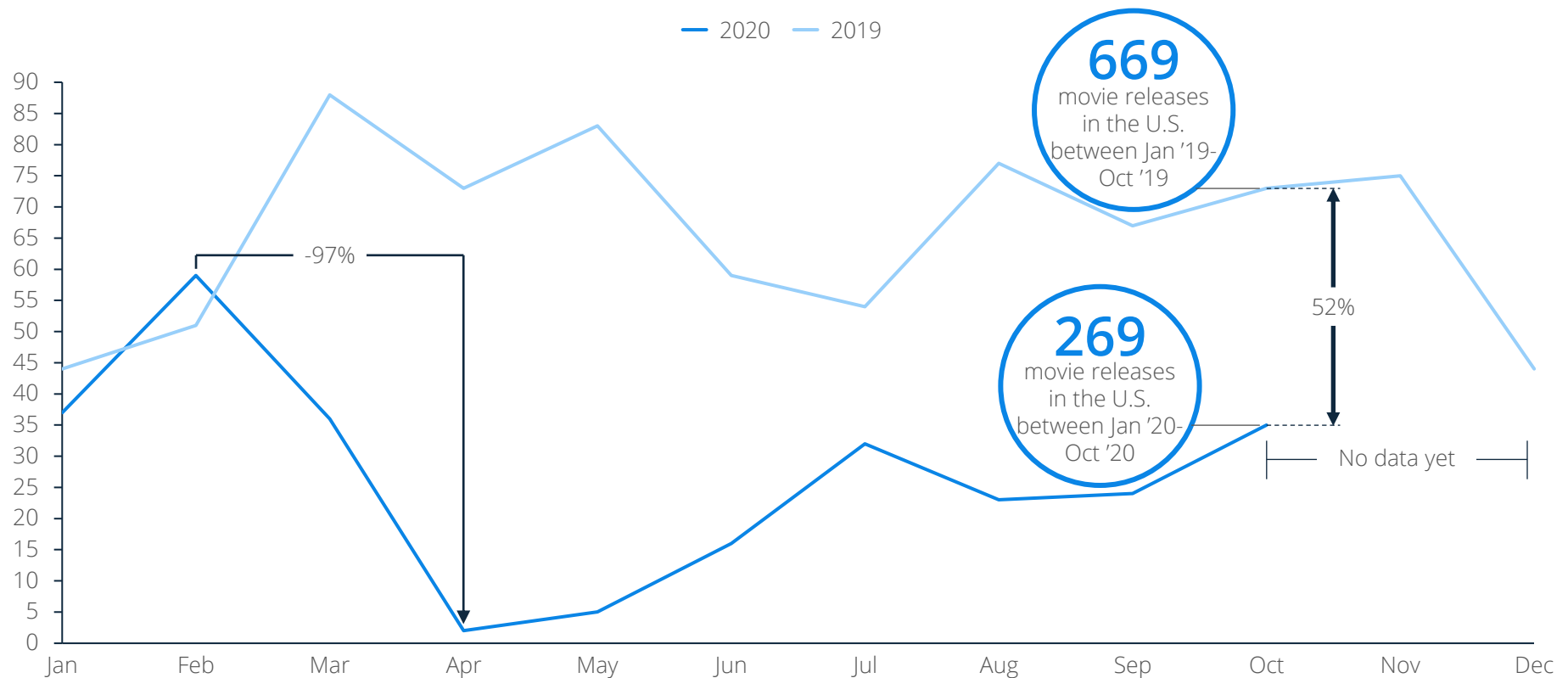
1: Business hours are from 8 a.m. to 6 p.m., off-hours are from 7 p.m. to 7 a.m.

Note: More information in the [Statista Dossier "Coronavirus impact on media consumption worldwide"](#)

Sources: Diario Jaén, Reelgood, as of March 2020

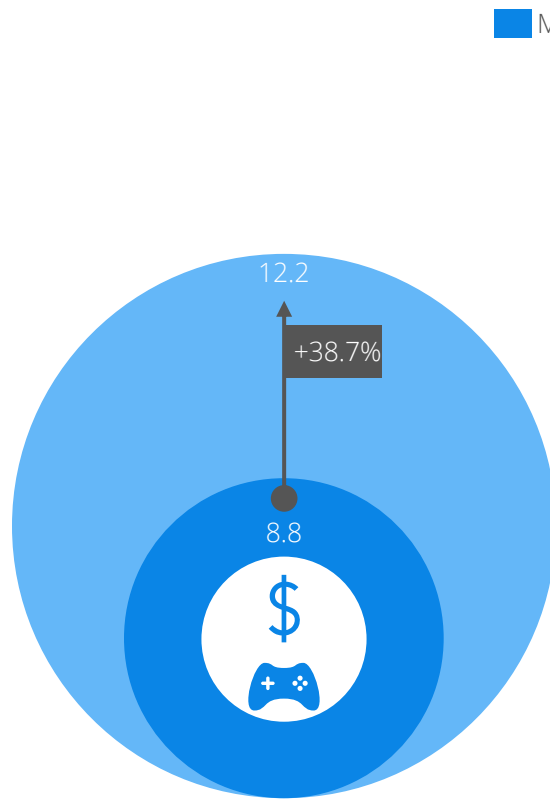
Movie releases in cinemas dropped in Apr' 20 to nearly zero and are still 52% below 2019 levels

Number of movie releases in the U.S.

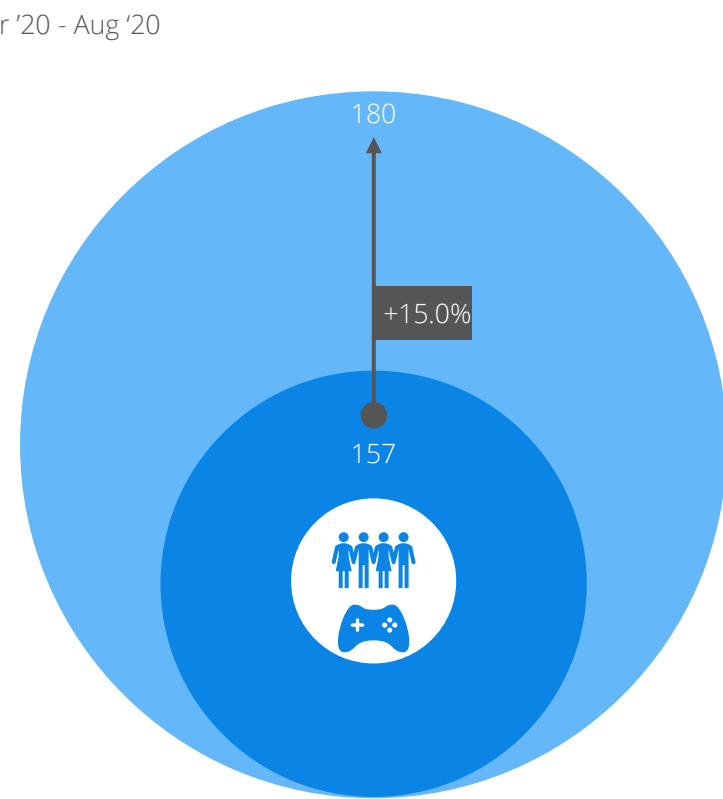


Video games significantly increased their sales and number of players since the outbreak of COVID-19

U.S. video game sales in billion US\$

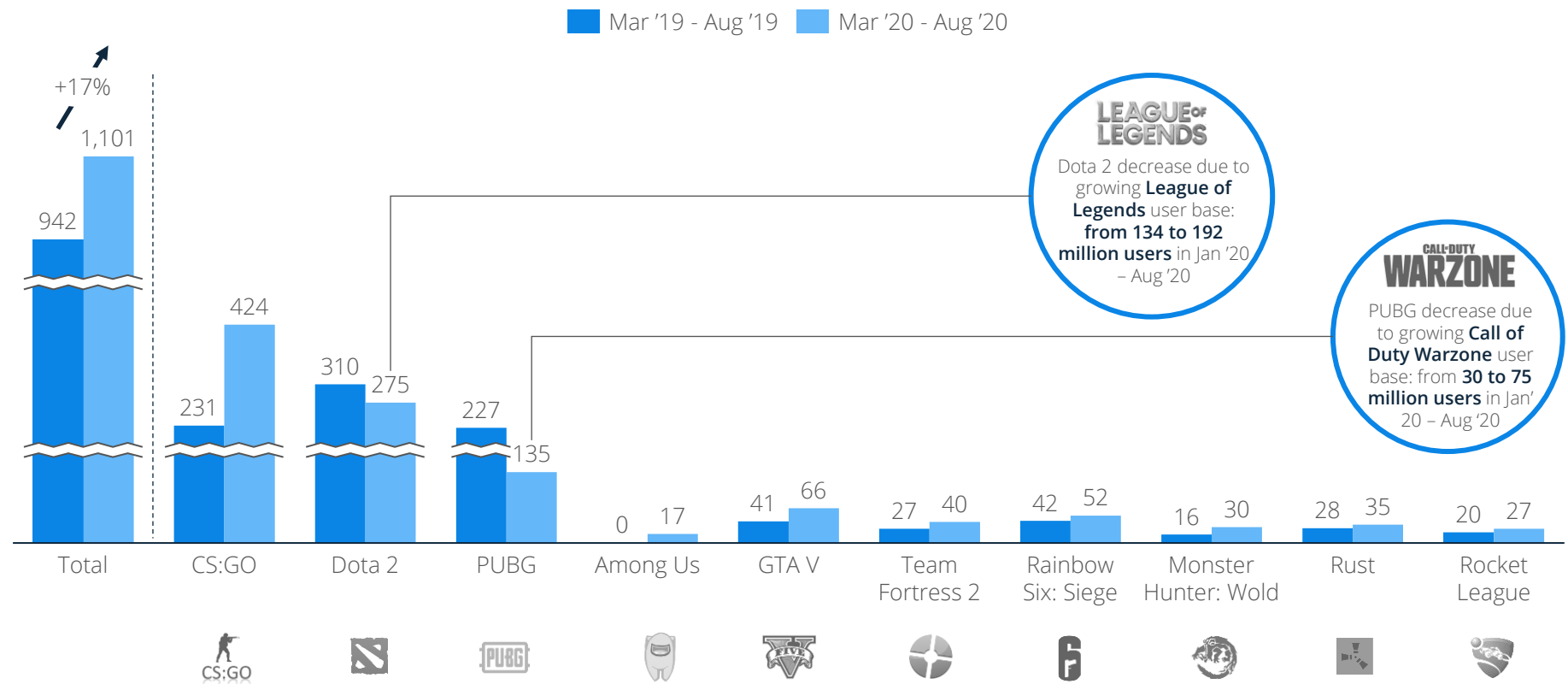


Players on leading platform Steam globally in million¹



Monthly number of peak concurrent players of top 10 games on Steam grew by 17%

Global monthly peak concurrent players per game on Steam in thousand

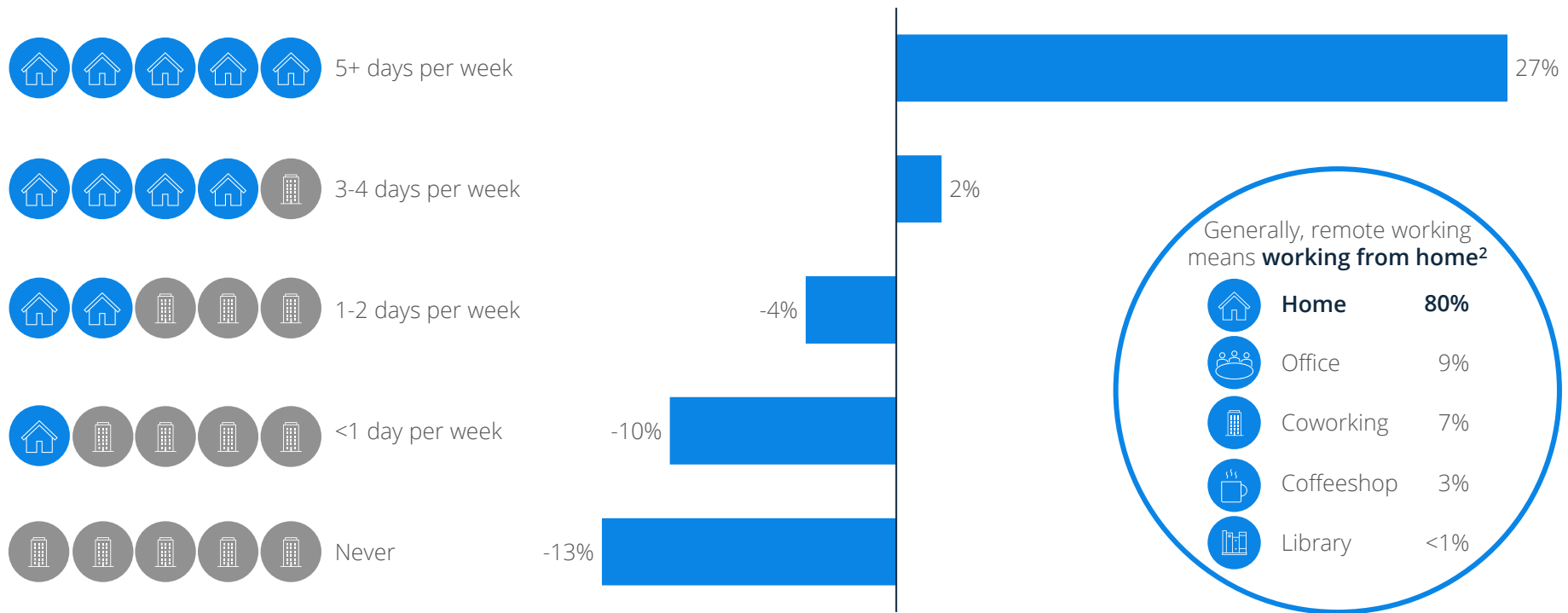


REMOTE WORKING



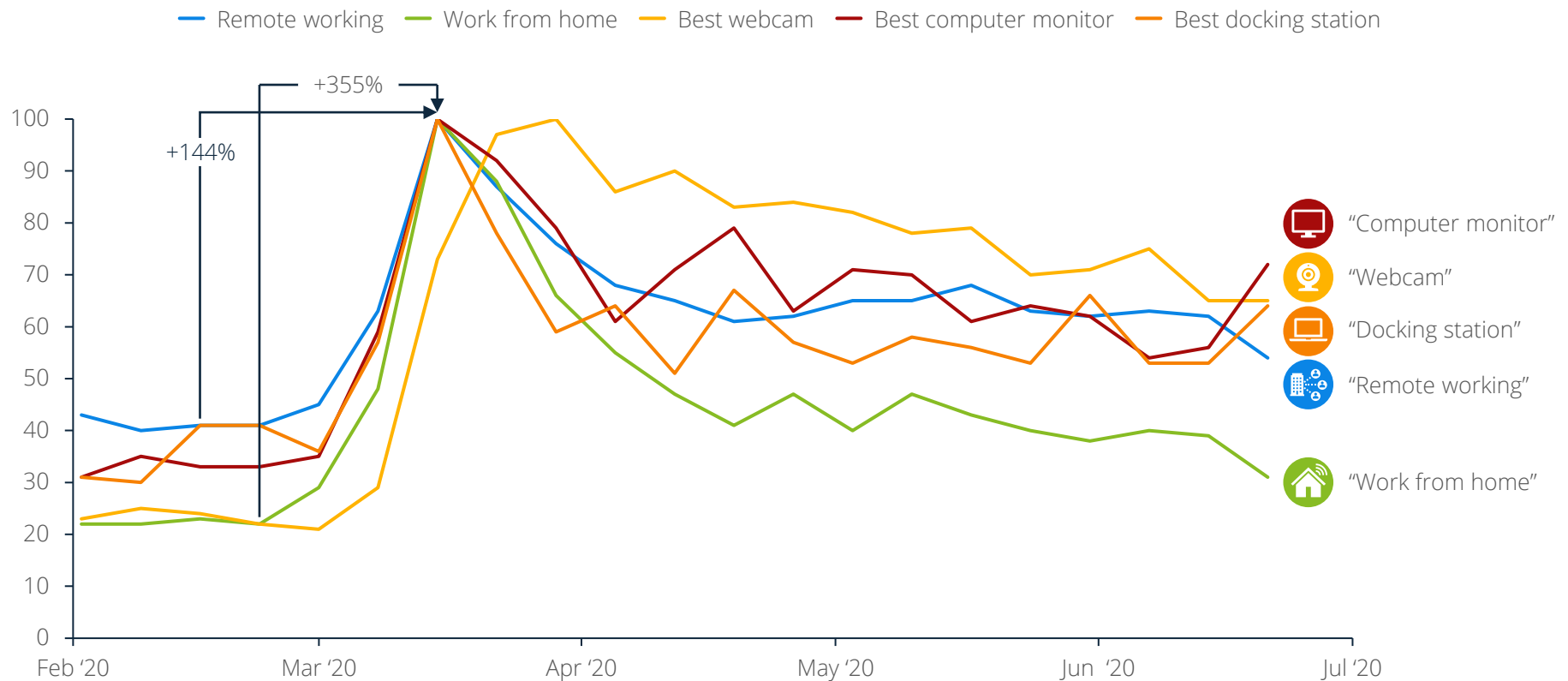
Working from home became the new normal with 27% of workers shifting to 5+ days per week at home

Remote work frequency change in the U.S. during COVID-19 in Apr '20¹



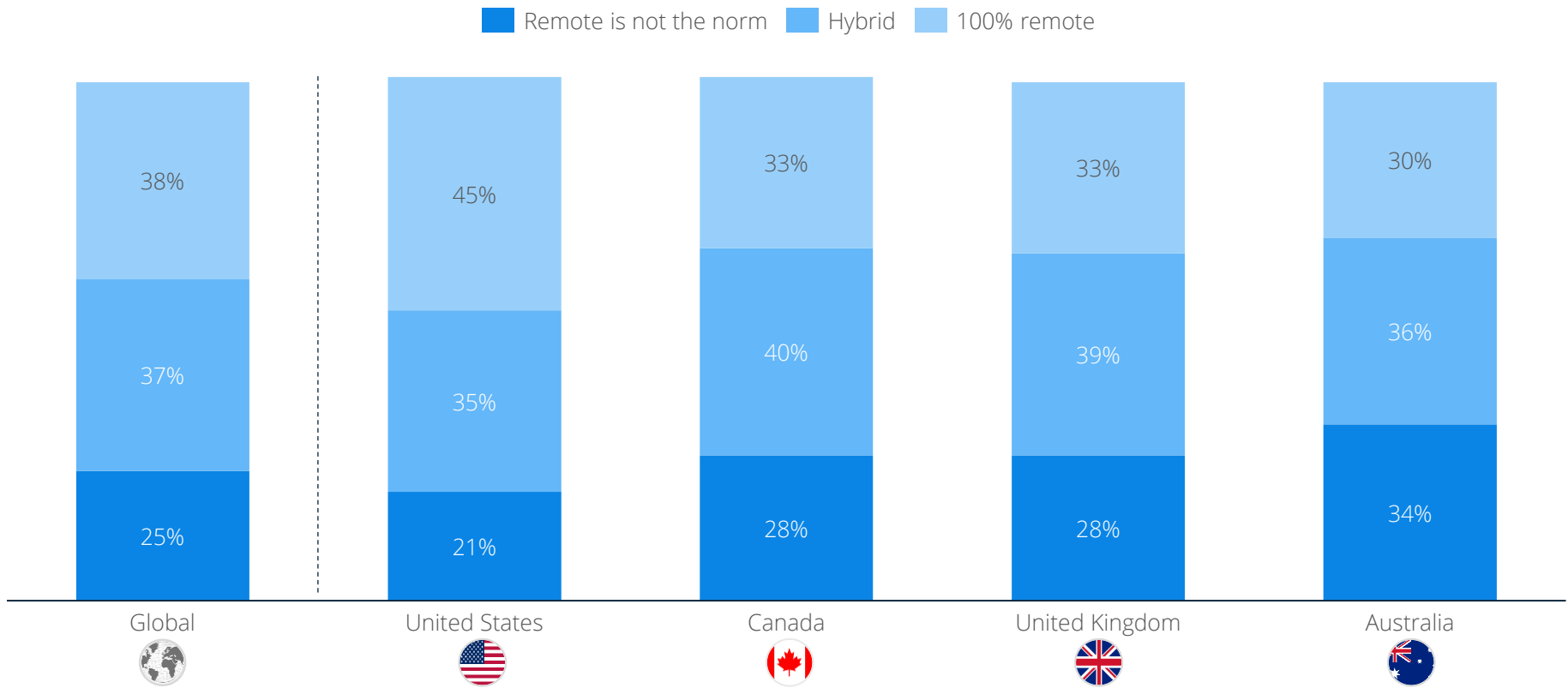
Google search interest in remote working keywords rose significantly during COVID-19

Interest in remote working related search terms during COVID-19 outbreak¹



Corporate remote working policies have changed with a majority allowing a full or hybrid remote model

Company policy on remote work for workers with digital output¹



1: January 30 to February 10, 2020, n=3,000+ adult professionals who work remotely or have the option to work remotely and are in roles with digital output

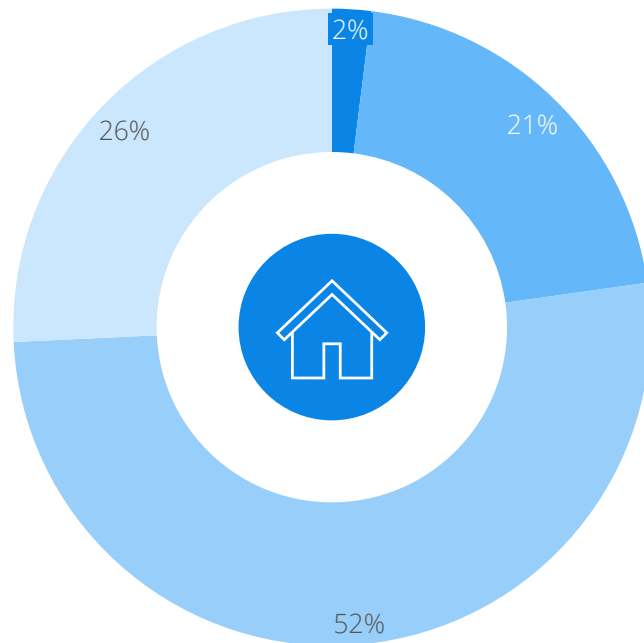
Note: Segments may not add to 100% due to rounding

Sources: GitLab, as of February 2020

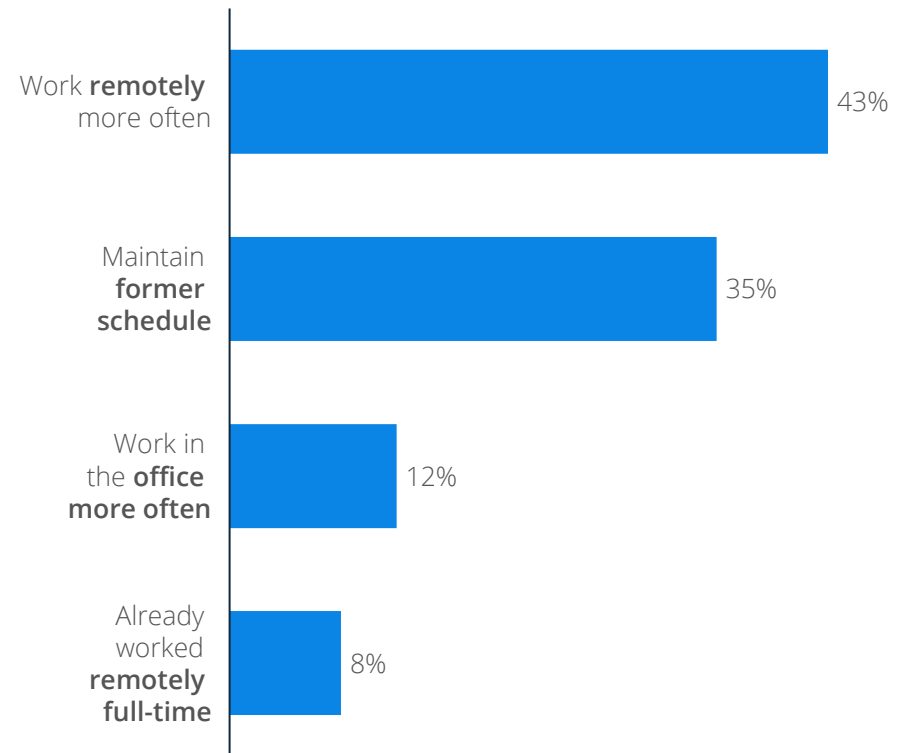
Remote working is expected to stay relevant, even after COVID-19

Weekly hours expected to work remotely post-COVID-19¹

>20 hours 8-20 hours 2-8 hours 0 hours



Respondents who would like to change their work schedule after COVID-19²



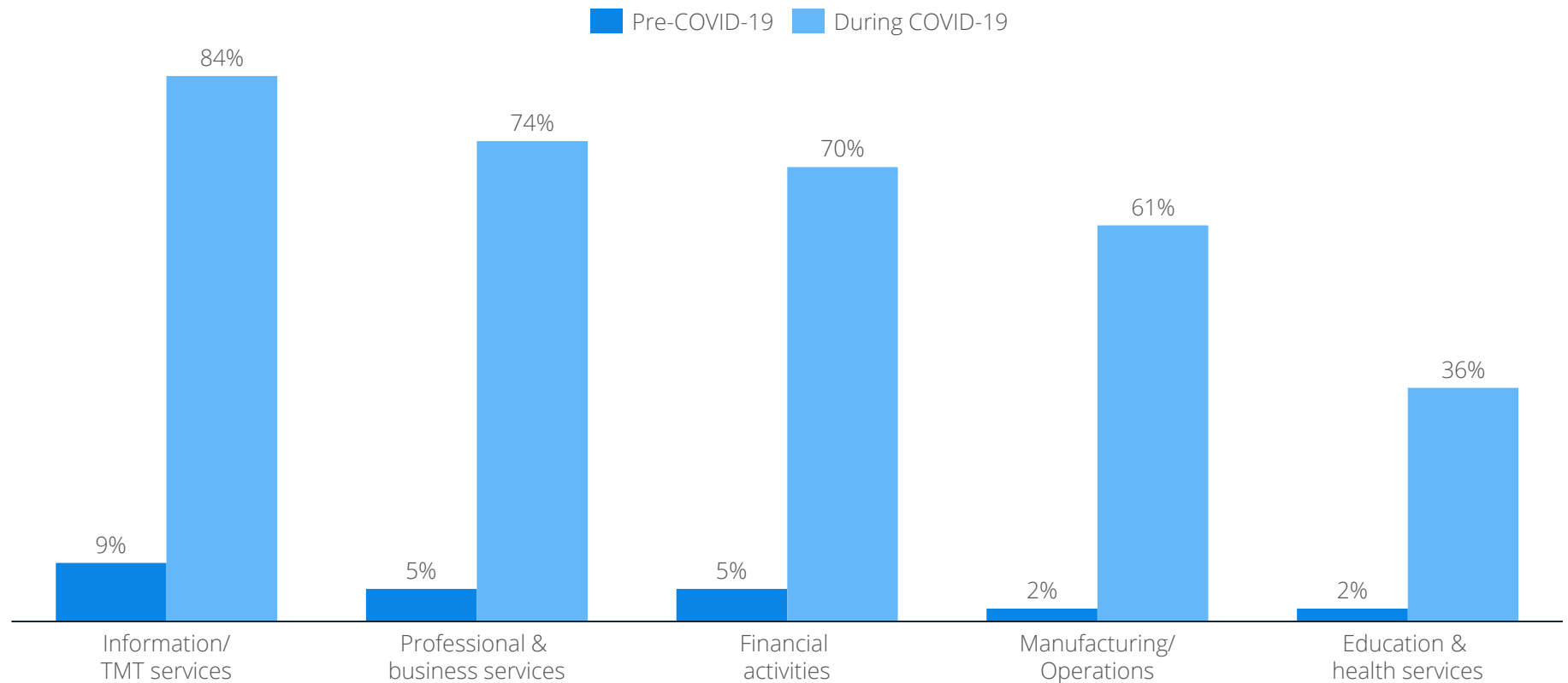
1: n=317 CFOs and finance leaders

2: n=1,200 full-time employees in the U.S., re-calculated for 40 hours work week, April 16 to 17, 2020

Sources: Gartner, getAbstract, as of April 2020

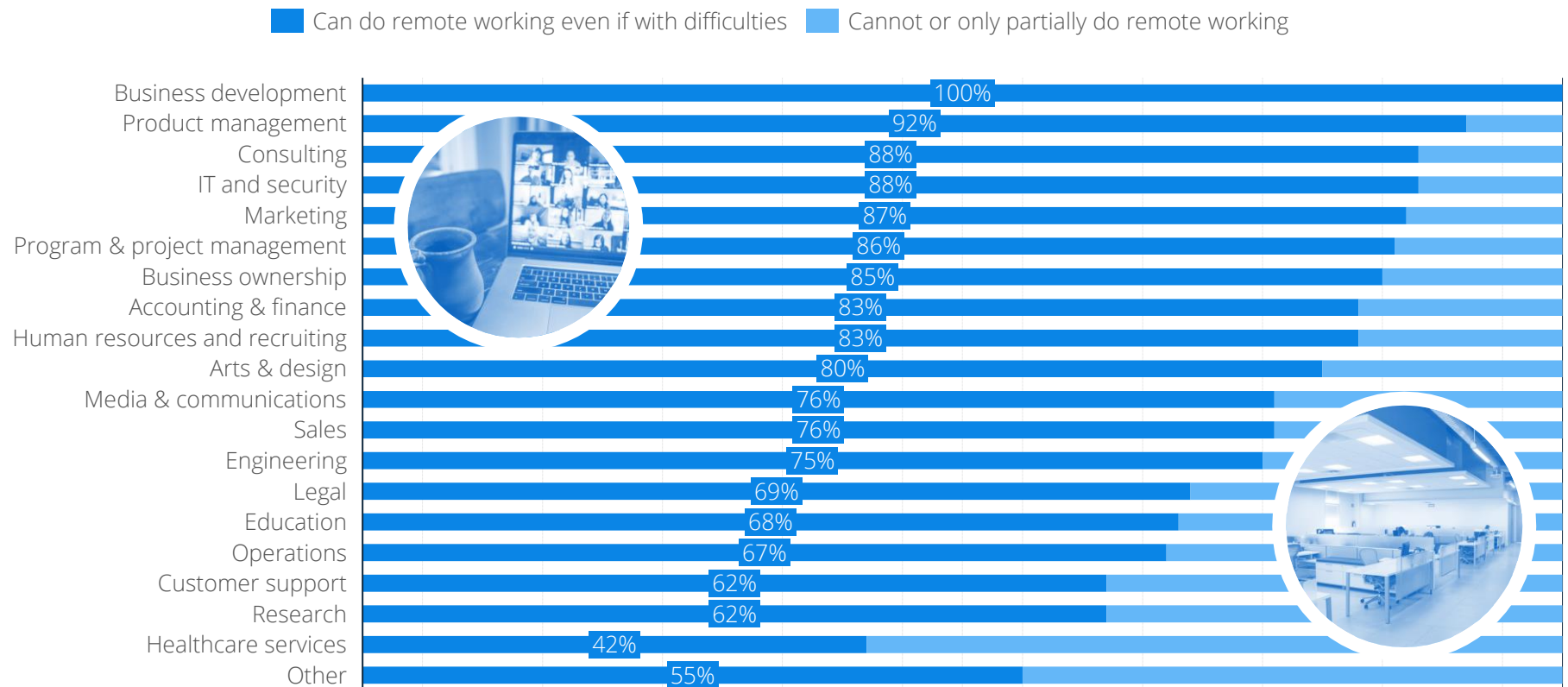
Information/TMT¹ industry went almost entirely into remote working; other industries had lower shares

Share of employees working remotely full time during COVID-19 in 2020²



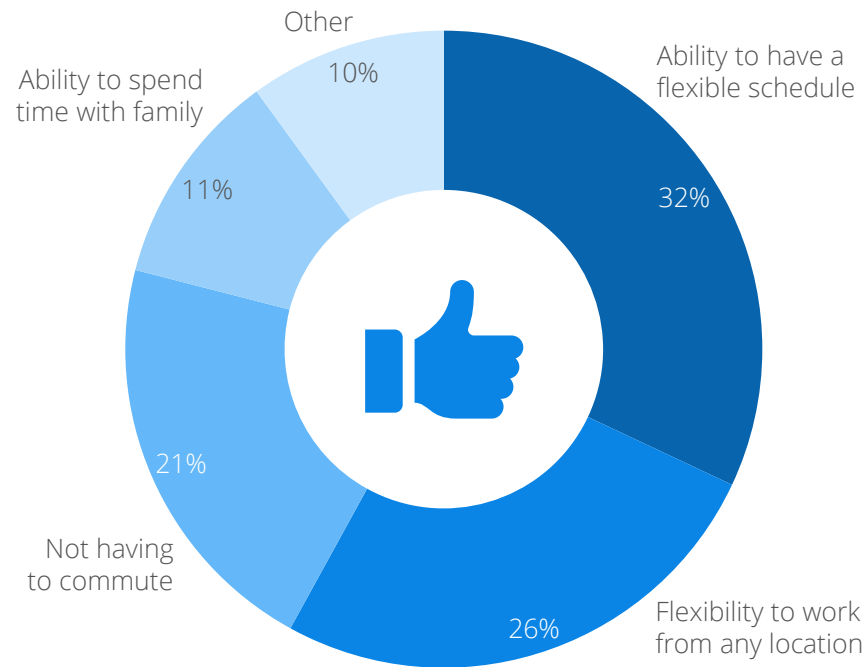
Job types differed in their suitability for working from home with business development leading

Suitability of remote work by industry¹

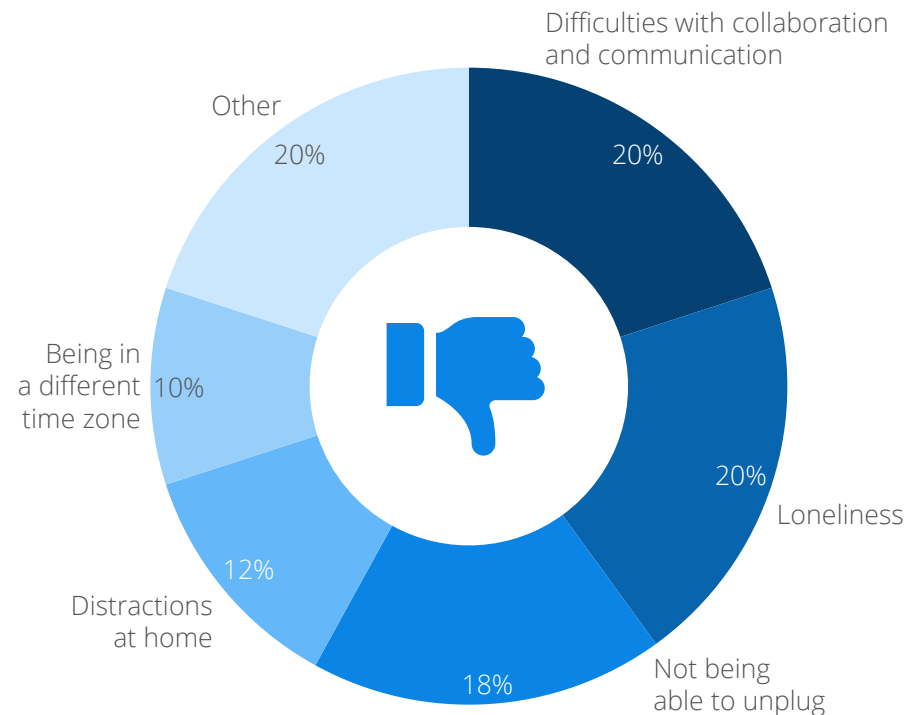


Benefits and struggles of working from home became quickly apparent

Biggest benefits to working remotely¹



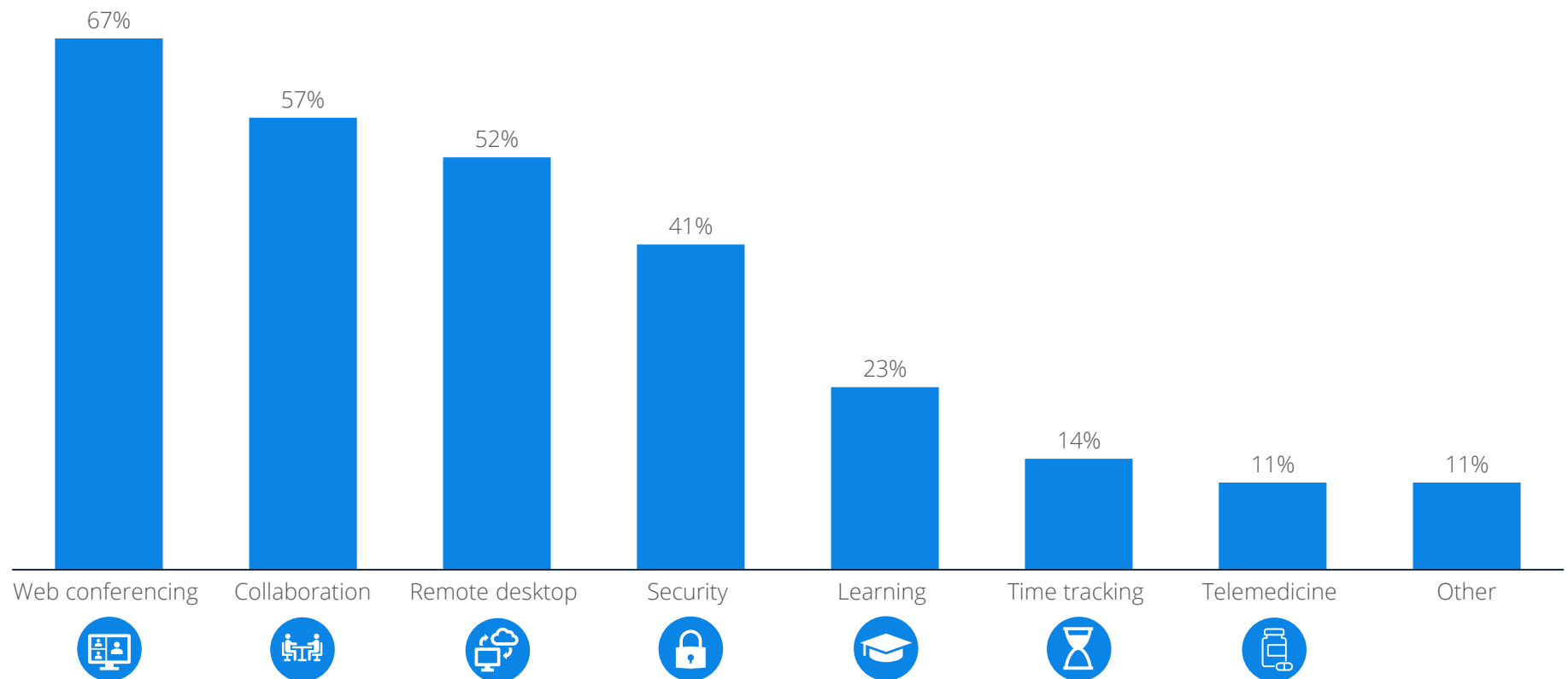
Biggest struggles with working remotely²



1: "What's the biggest benefit you see to working remotely?"; n=3,521 remote workers
2: "What's the biggest struggle you see to working remotely?"; n=3,521 remote workers
Sources: Buffer, as of February 2020

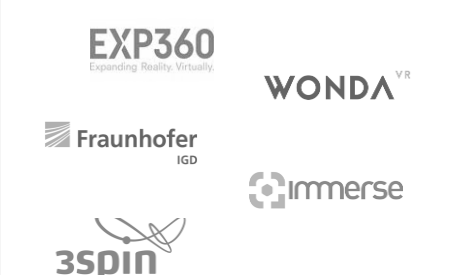
Software spending fundamentally changed with a surge in web conferencing and collaboration tools

Global business software spending increased amid COVID-19¹



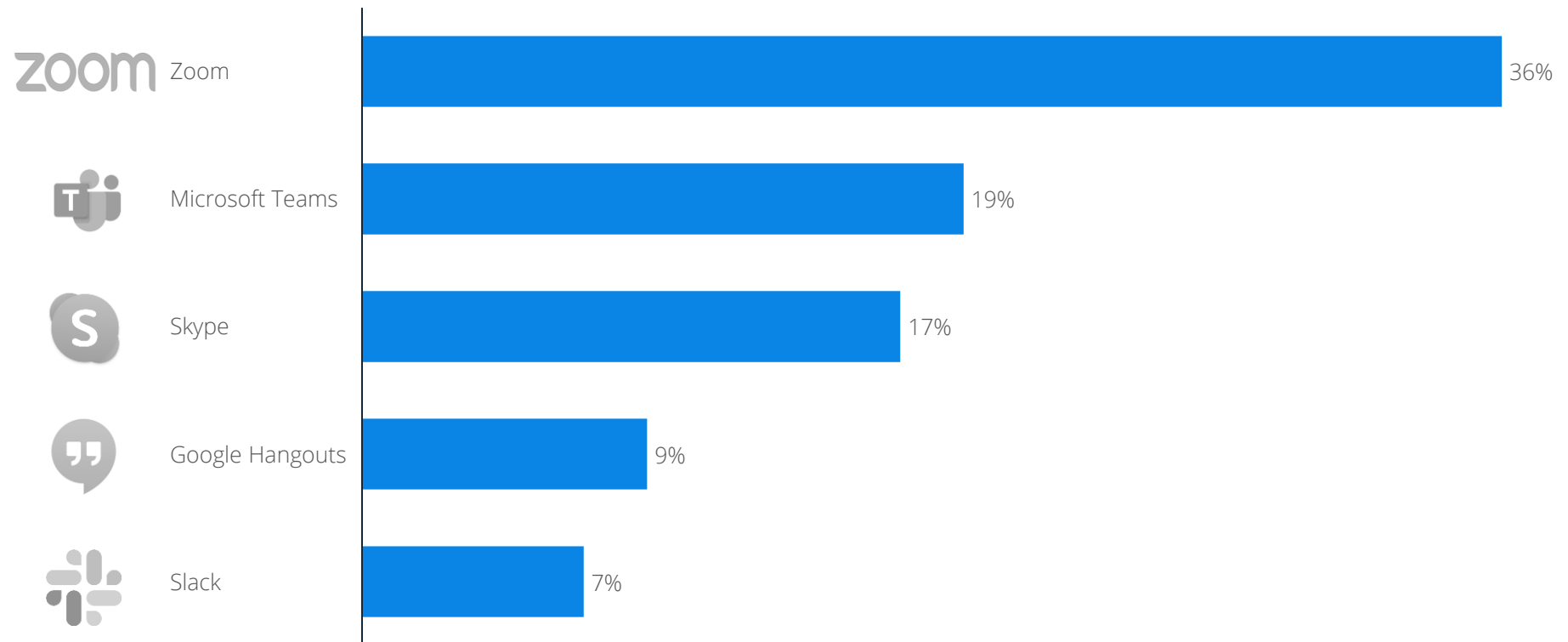
The collaboration software ecosystem has particularly thrived and comprises a multitude of segments

Selected key players in enterprise collaboration and social software

Team collaboration, presentation & virtual offices	Social VR	Meetings & events	Medical training
			
Education & training	Visualization & review	Architecture	Design, creation & prototyping
			

Zoom is the clear leader in the U.S. collaborative software market

Top collaboration tools used for remote work in the U.S.¹



Economic impact of remote working could result in annual savings of over US\$700bn in the U.S. alone

Overall impact of remote working



US\$700bn¹ savings in the U.S.

76%² of respondents experience **less distractions**

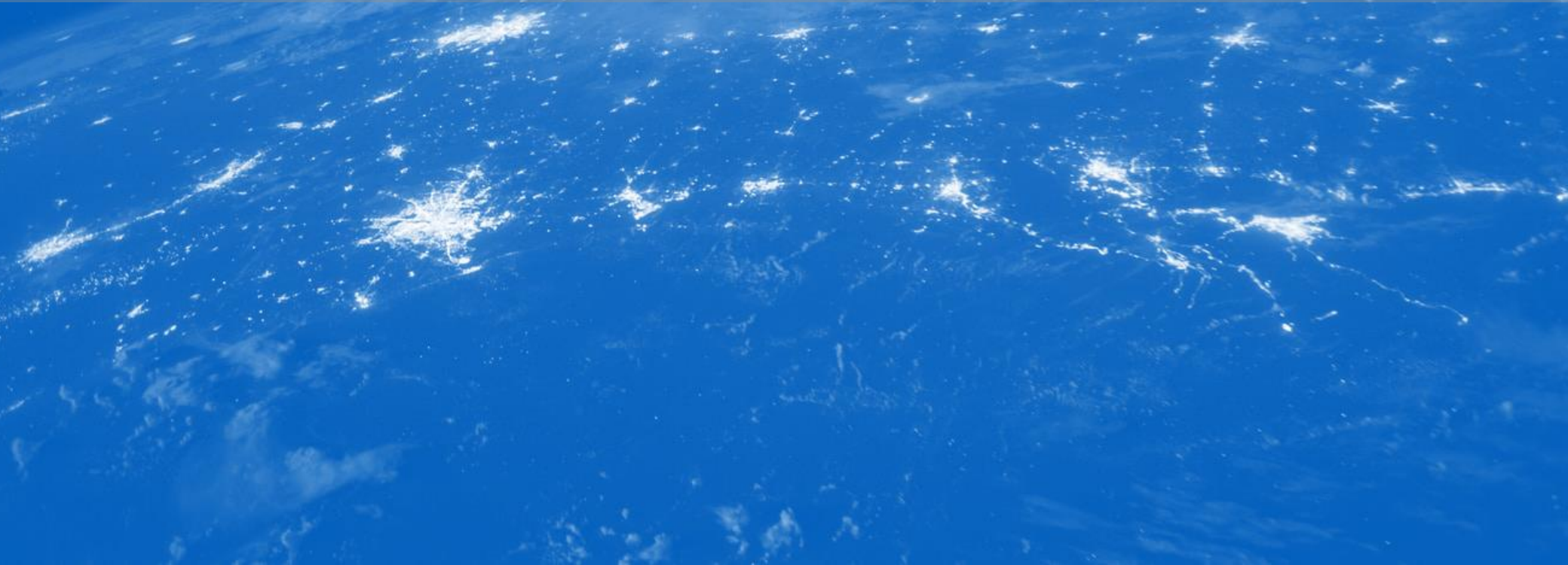
66%² agree on an **increase in productivity**

74%³ feel it is **motivating**

1: Global Workplace Analytics, as of July 2020 2: n=5,500 FlexJobs' sixth annual survey 2017 3: n=1,000; Softchoice survey "Working Hard or Hardly Networked"
Sources: globalworkplaceanalytics.com, as of June 2020

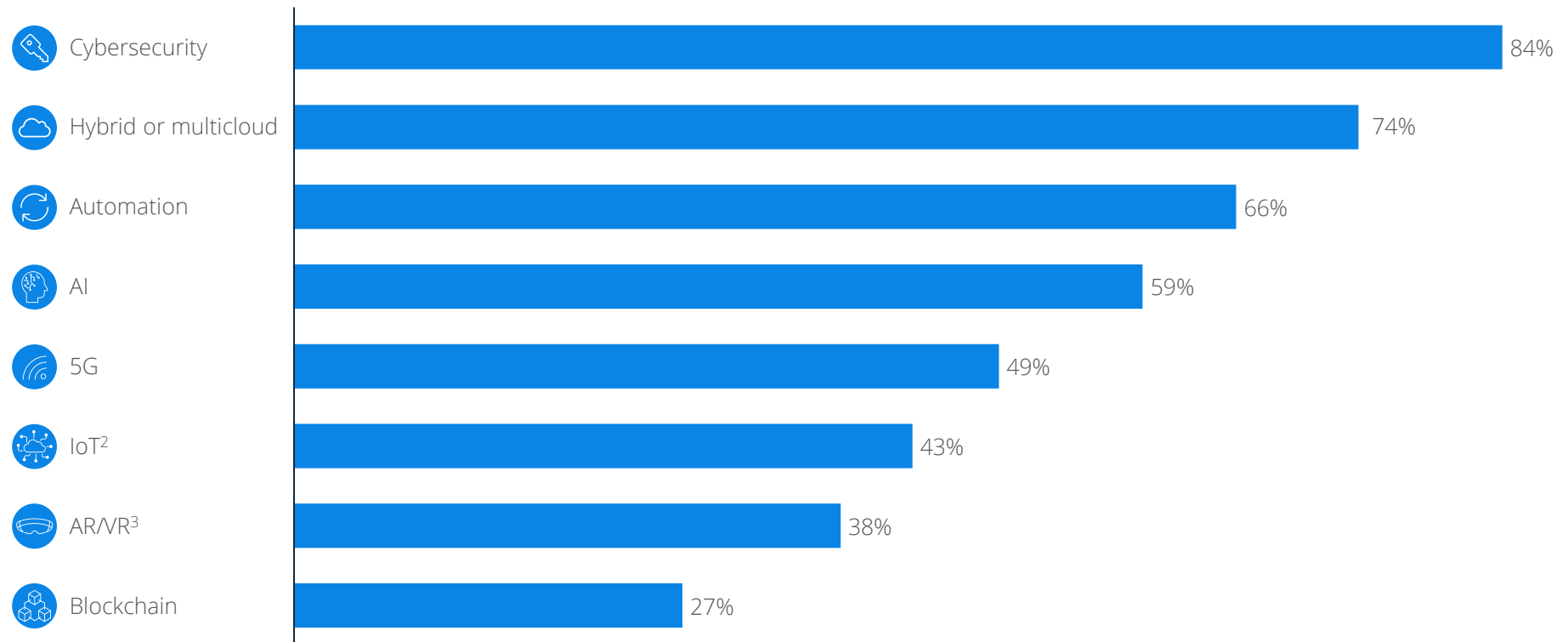


DIGITAL TECHNOLOGY



COVID-19 is expected to push spending for trend technologies including cybersecurity and cloud on top

Global increase in technology spending due to COVID-19¹

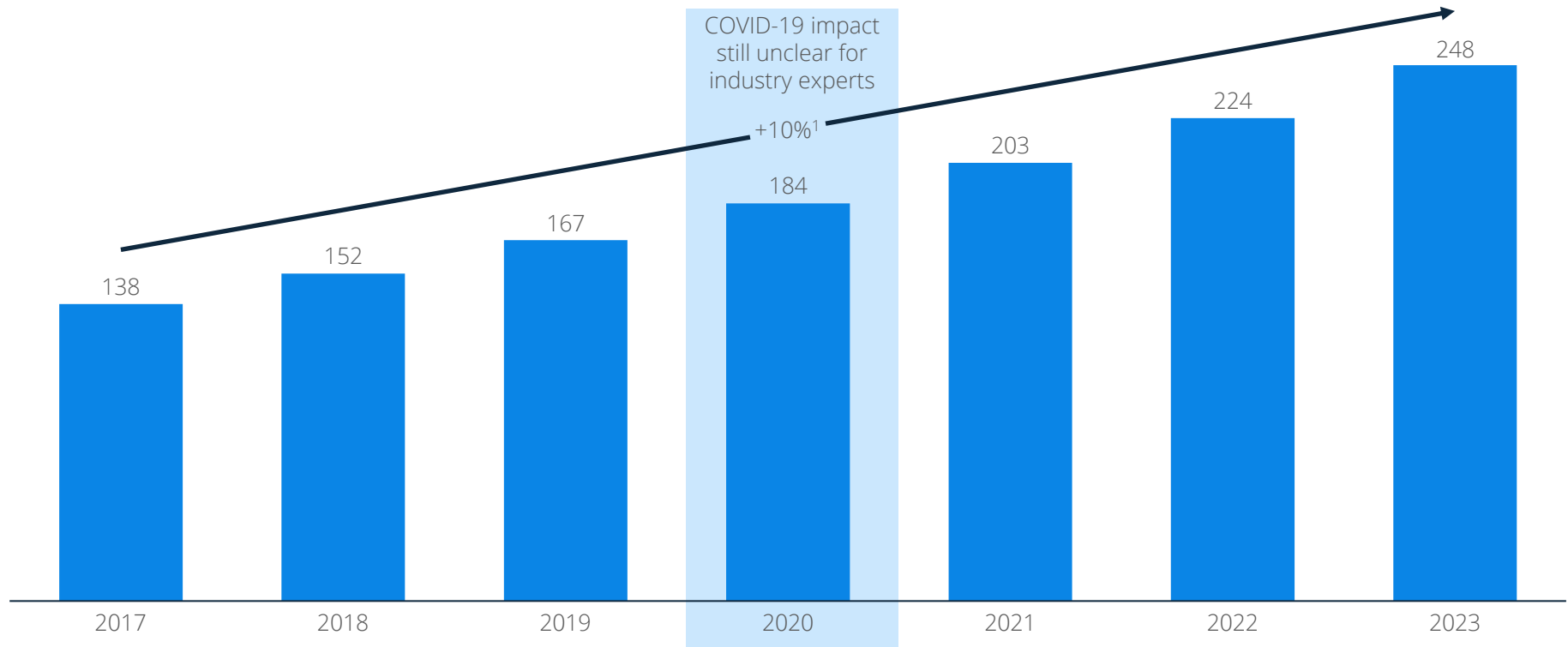


1: Survey conducted by HFS Research on 631 major tech enterprises on April 6, 2020 2: IoT=Internet of Things 3: AR/VR=Artificial reality/Virtual reality

Sources: HFS Research, as of April 2020, Canalys 2020

Cybersecurity market expected to grow to nearly US\$250bn in 2023 with a 10% CAGR¹ from 2017-2023

Global cybersecurity revenue forecast in billion US\$²



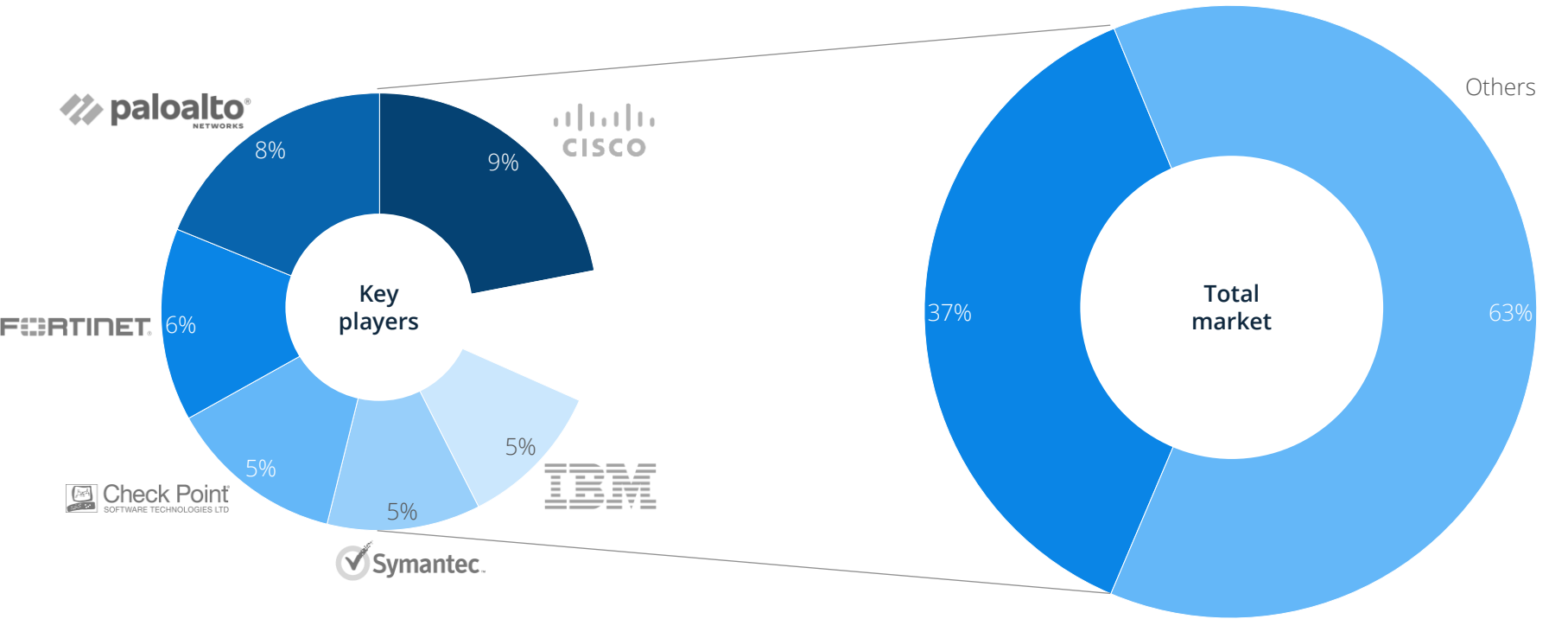
1: CAGR: Compound Annual Growth Rate/average growth rate per year

2: Includes Identity and Access Management, Encryption, Unified Threat Management, Antivirus/Intimalware, Firewall, IDS/IPS, Disaster Recovery, and DDOS Mitigation

Sources: MarketsandMarkets

Key players in cybersecurity are Cisco, Palo Alto Networks, and Fortinet

Global market shares of key players in cybersecurity market in 2020¹



Cyberattacks spiked during COVID-19 and created a particular challenge for the digital economy

Cyberattack highlights during COVID-19

667%

increase in email scams related to COVID-19 in Mar '20



400%

increase in brute-force attacks in Mar and Apr '20



40%

more desktop PCs are unsecured (driven by an increase in remote working and remote desktops)



530k

Zoom login data sets sold on the dark net



2000%

increase in malicious files with "Zoom" included in their filename



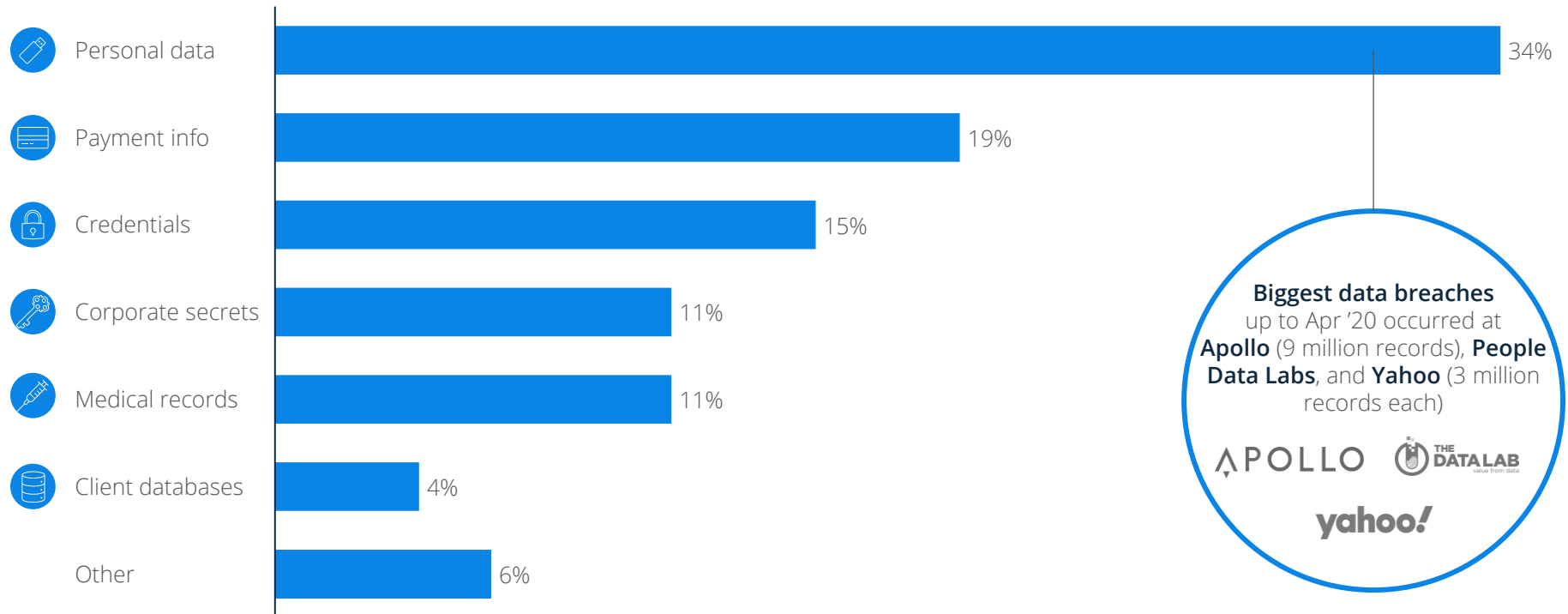
3x

higher likelihood of users clicking COVID-19-related scam content



Retrieving personal data and payment information was the primary aim of cyberattacks

Globally most typically stolen data during a cyberattack in 2019



Cyber attacks were mostly conducted through malware and social engineering

Attack methods most typically used in cyber attacks



1: Social engineering is the term used for a broad range of malicious activities accomplished through human interactions. It uses psychological manipulation to trick users into making security mistakes or giving away sensitive information. Social engineering attacks happen in one or more steps
Sources: Positive Technologies, as of Q1 '20, Statista

Cyberattacks have succeeded in inflicting significant and highly public damage to their victims

Prominent press headlines concerning cyberattacks during COVID-19



"WHO reports fivefold increase in cyberattacks, urges vigilance"

"Shopify internal data breach exemplifies insider threat trend"

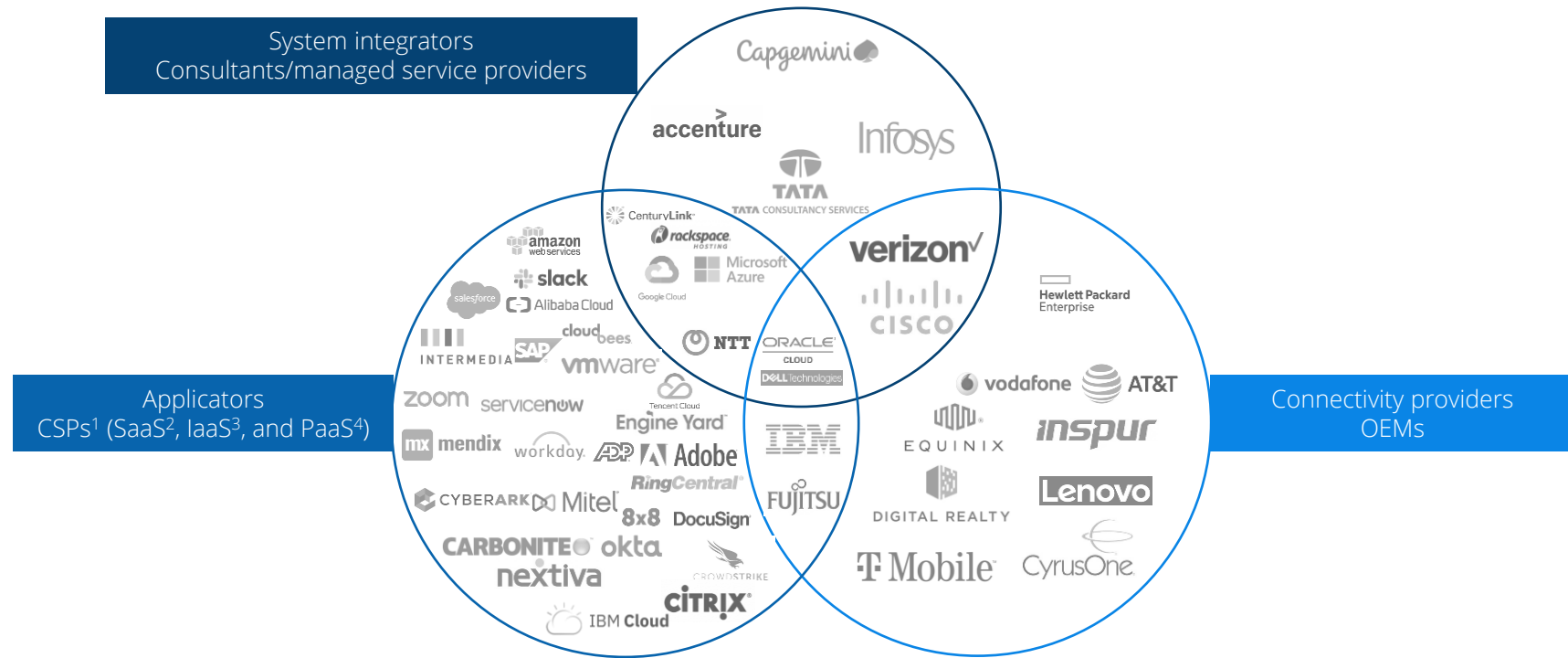
"Razer data leak exposes over 100K customer records"

"London's Hackney Council hit by serious cyber attack"

"VA data breach exposes personal information for 46,000 veterans"

The cloud market ecosystem comprises system integrators, applicators, and connectivity providers

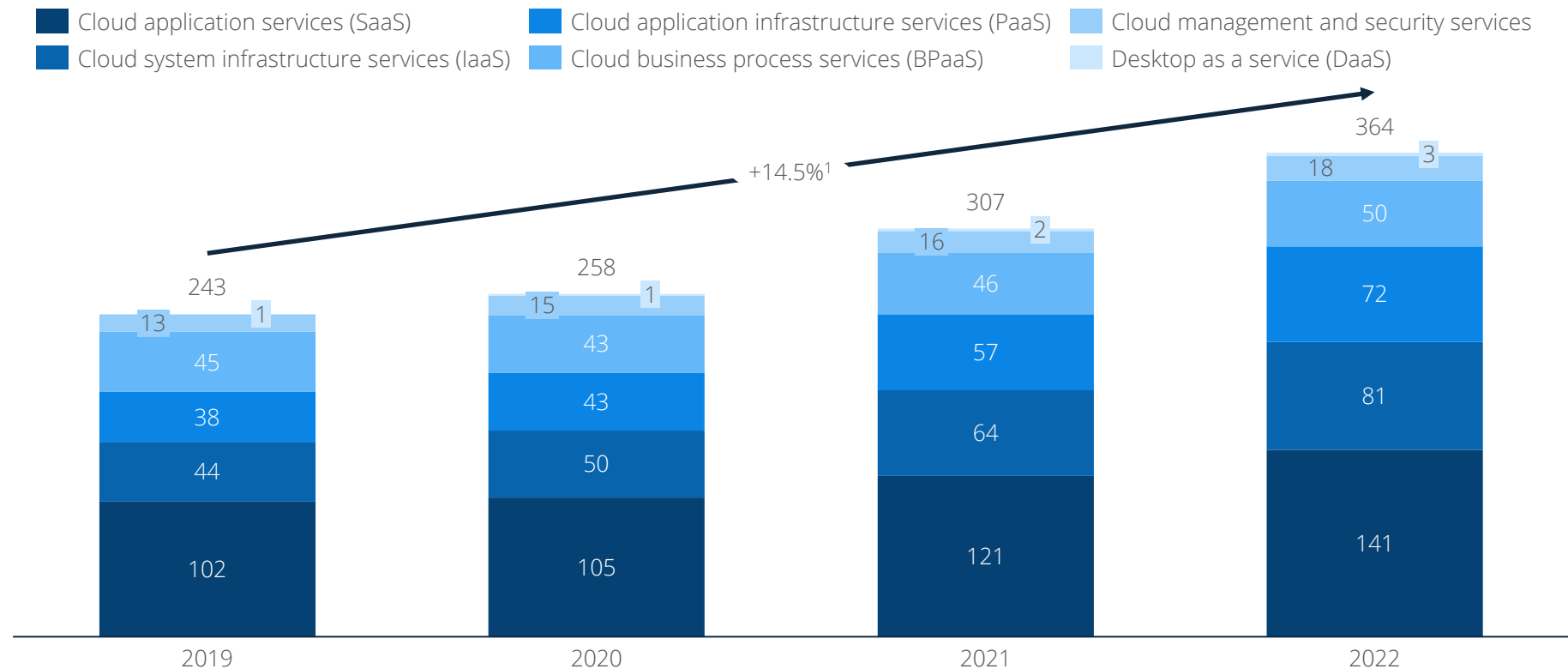
Cloud computing market ecosystem



1: CSPs=Cloud Solution Provider Programs 2: SaaS=Software as a Service 3: IaaS=Infrastructure as a Service 4: PaaS=Platform as a Service
Sources: Marketsandmarkets, as of July 2020

The cloud market is expected to grow to US\$364bn in 2022 with a CAGR¹ of nearly 15% in 2019-2022

Global public cloud service revenue forecast in billion US\$²



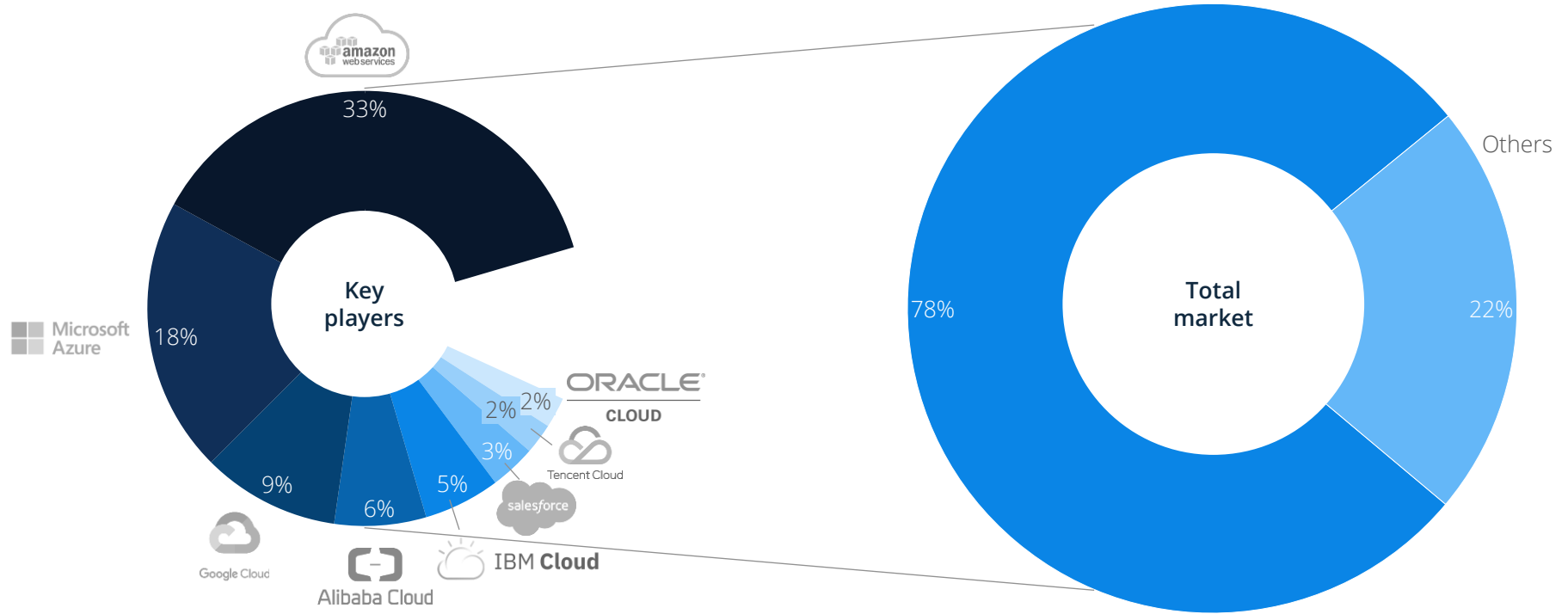
1: CAGR: Compound Annual Growth Rate/average growth rate per year

2: Public cloud services are on-demand computing services that range from applications to storage and processing power, which are usually delivered over the internet and on a pay-as-you-go basis

Sources: Gartner, as of July 2020

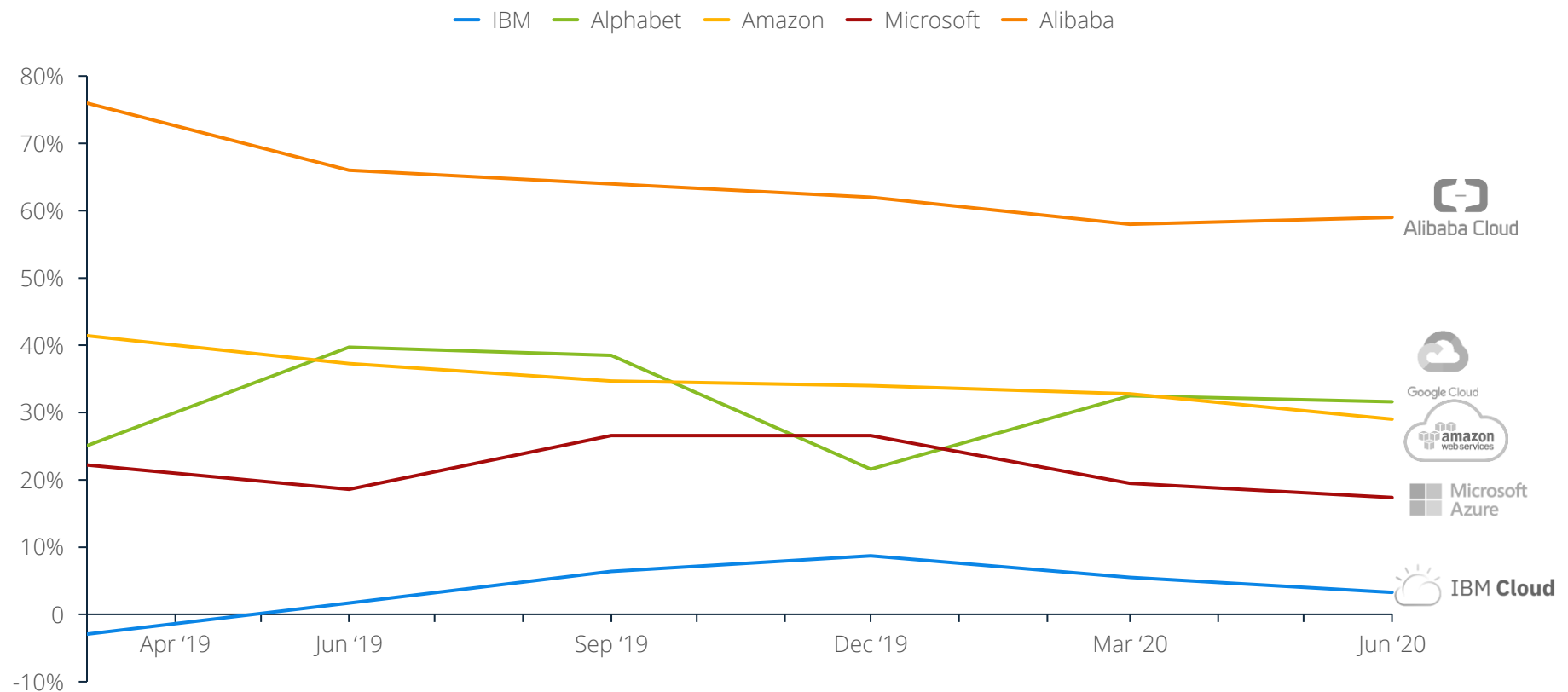
Key players in cloud infrastructure service are Amazon, Microsoft, Alphabet/Google, and Alibaba

Global market shares of key players in cloud infrastructure services market in 2020



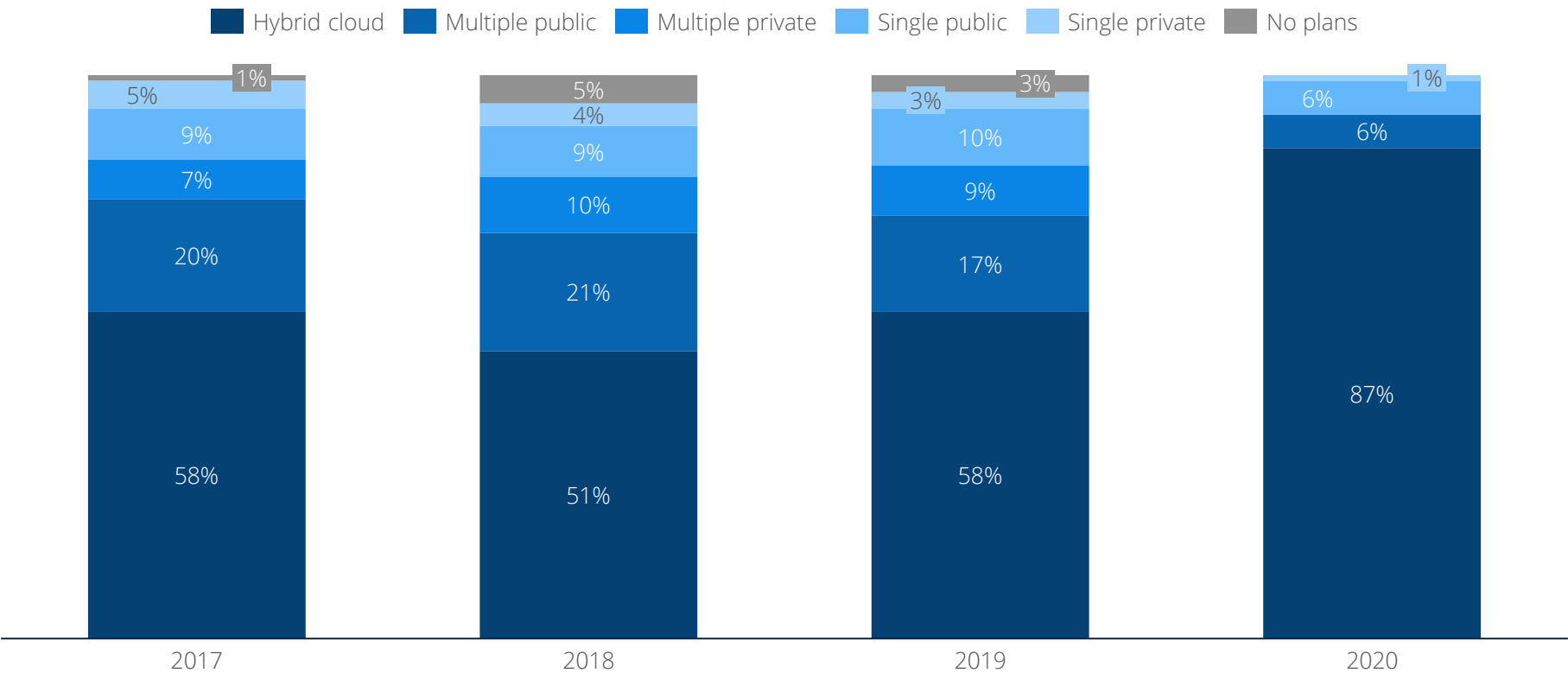
Cloud revenue growth is strongest with #4 player Alibaba, making them a challenger to incumbents

Cloud revenue growth compared on y-o-y basis for cloud market leaders



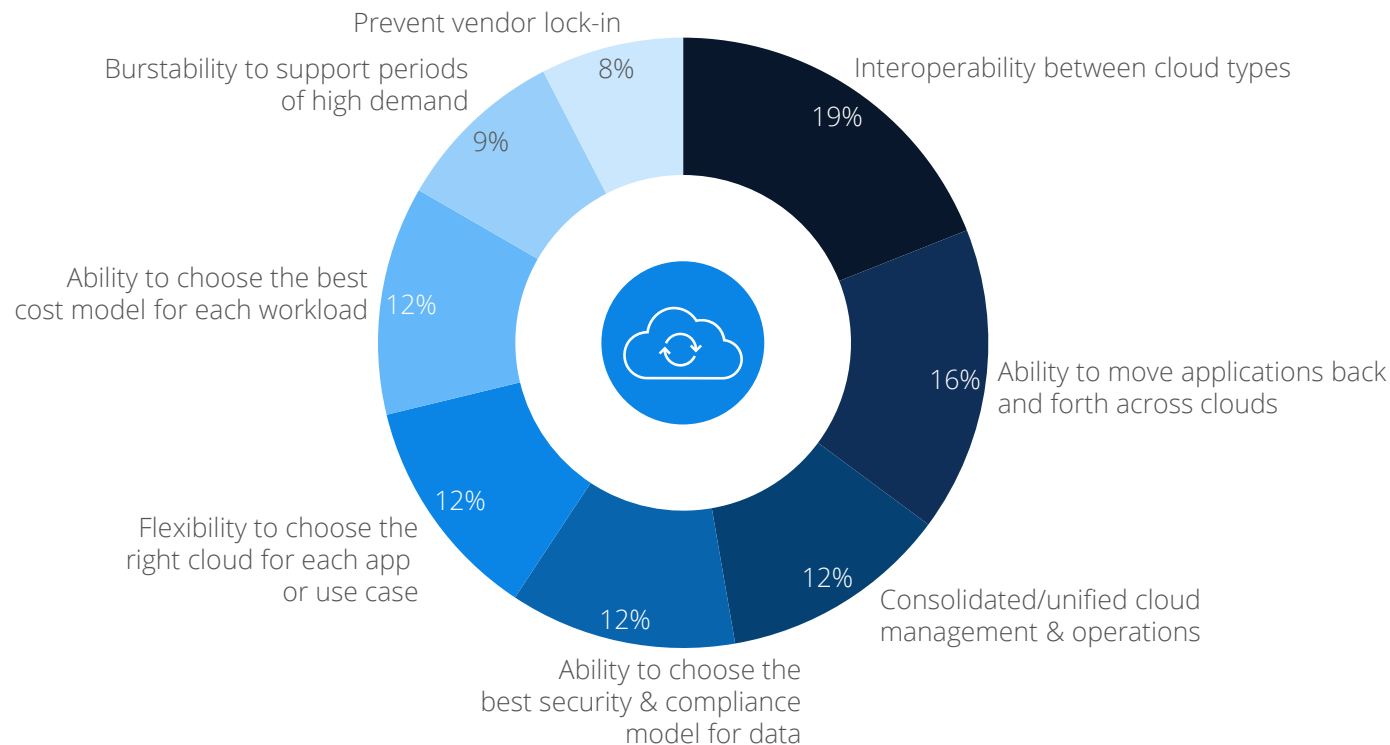
Hybrid cloud solutions are expected to grow to a market share of 87% in 2020

Global share of enterprise cloud strategies



Hybrid cloud adoption mainly driven by increasing interoperability and flexible & unified application

Global primary benefits of using the hybrid cloud type for organizations



Automation ecosystem comprises bot providers, consulting, cloud RPA¹, BPA², and marketplaces

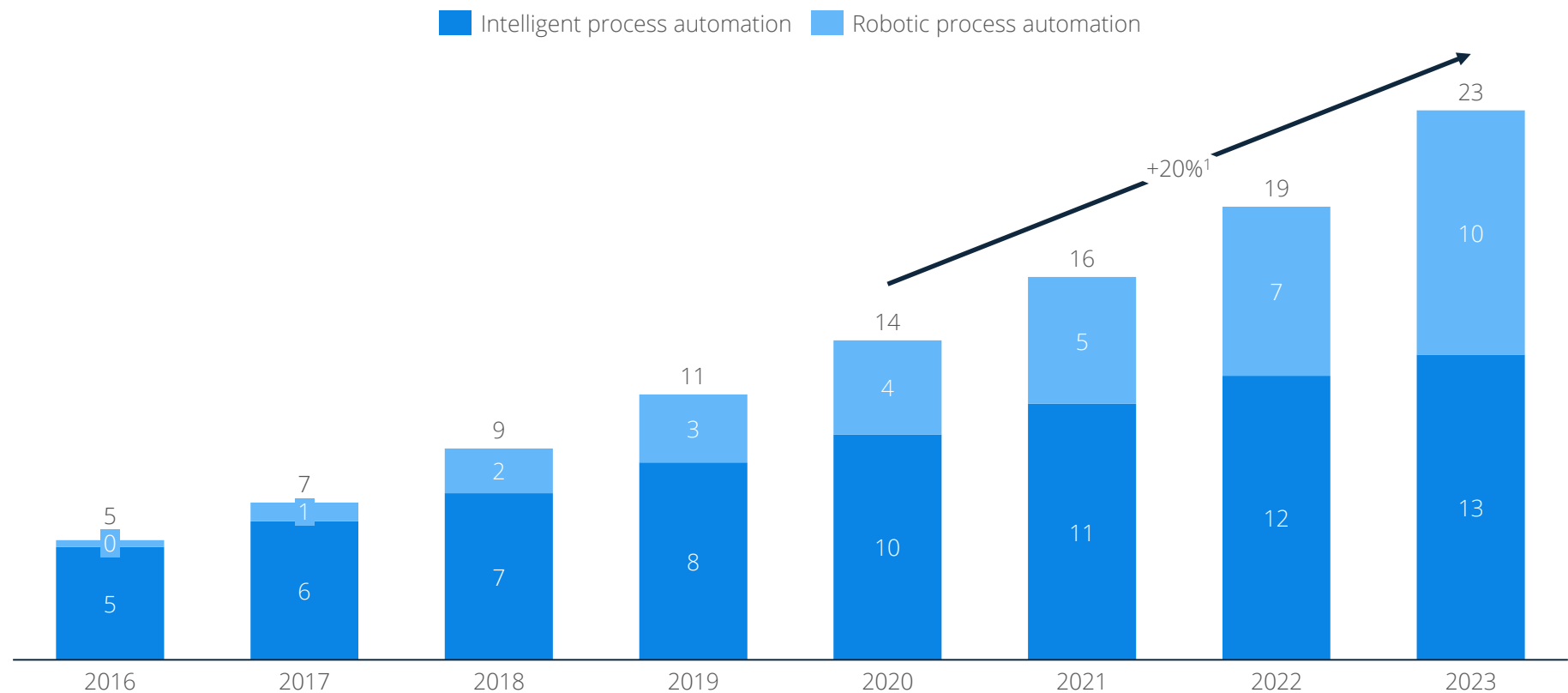
Automation market ecosystem

Bot providers	Consulting	Cloud robotic process automation	Business robotic process automation & implementation	Marketplaces

1: RPA=Robotic Process Automation 2: BPA=Business Process Automation
Sources: HFS, as of 2020, rpassuccess.com, as of 2019

The automation market is expected to grow to US\$23bn in 2023 with a CAGR¹ of 20% in 2020-2023

Global automation and AI business operations revenue forecast in billion US\$²



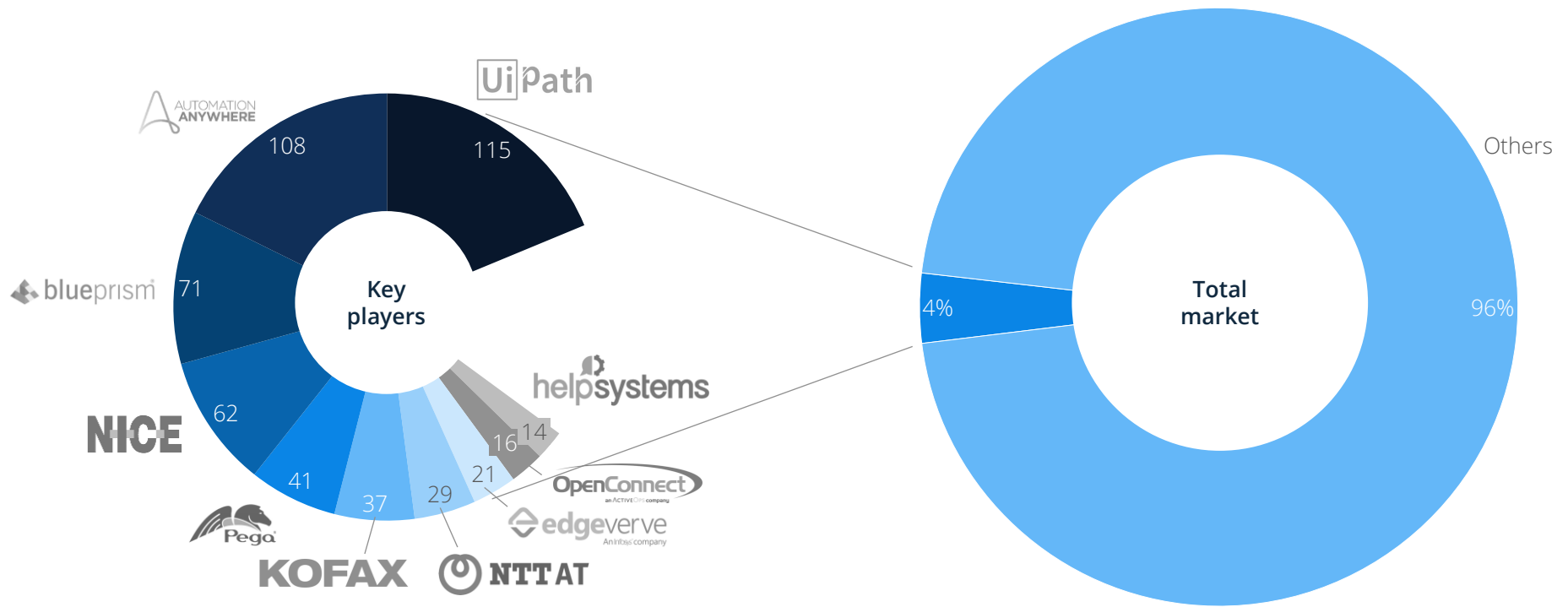
1: CAGR: Compound Annual Growth Rate/average growth rate per year

2: Automation refers to the use of technology to perform various tasks with minimal human intervention. This includes robotic process automation, intelligent process automation, and various AI business operations

Sources: HFS

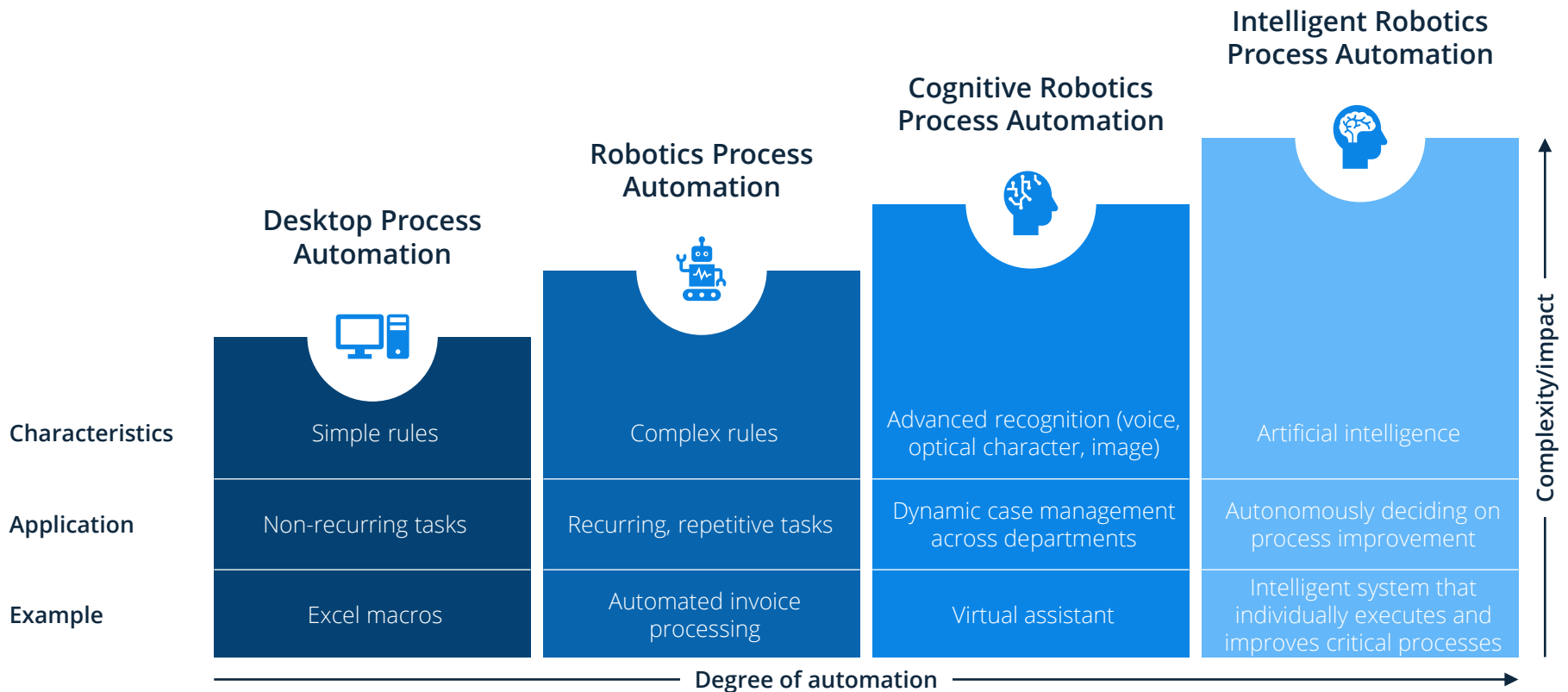
Key players in highly fragmented RPA¹ are UiPath, Automation Anywhere, and Blue Prism

Global market shares of key players in robotic process automation market in million US\$ in 2020



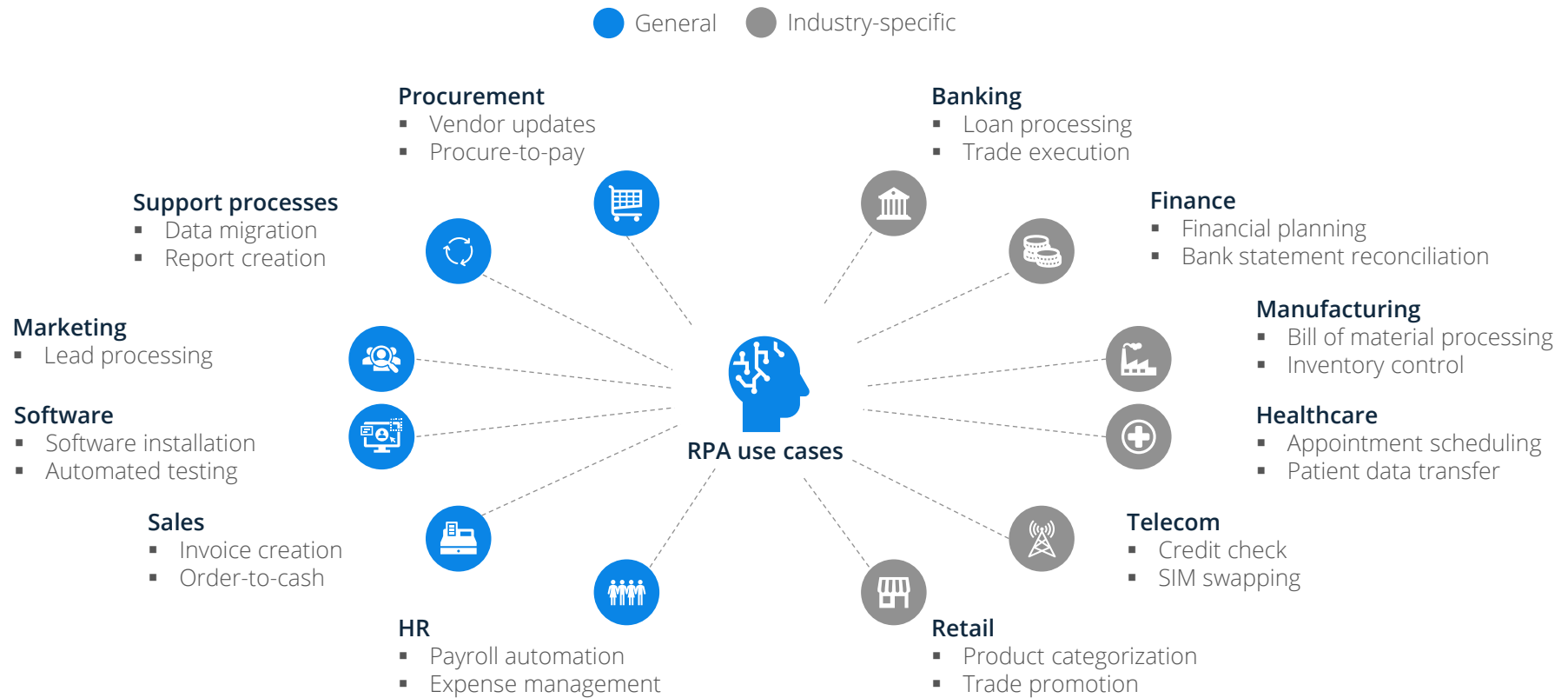
Robotic process automation is divided into four stages with increasing business impact

Stages of robotic process automation



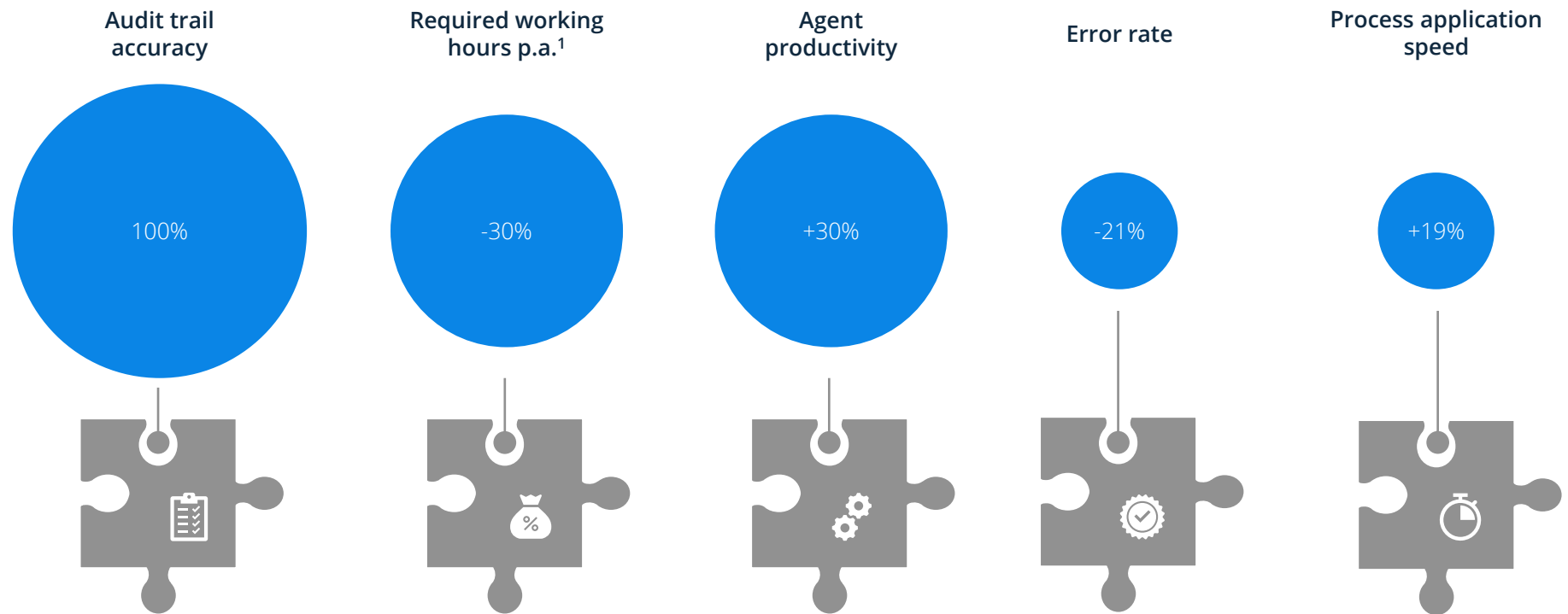
Robotic process automation can be applied to a multitude of general and industry-specific use cases

Exemplary use cases for robotic process automation (RPA)



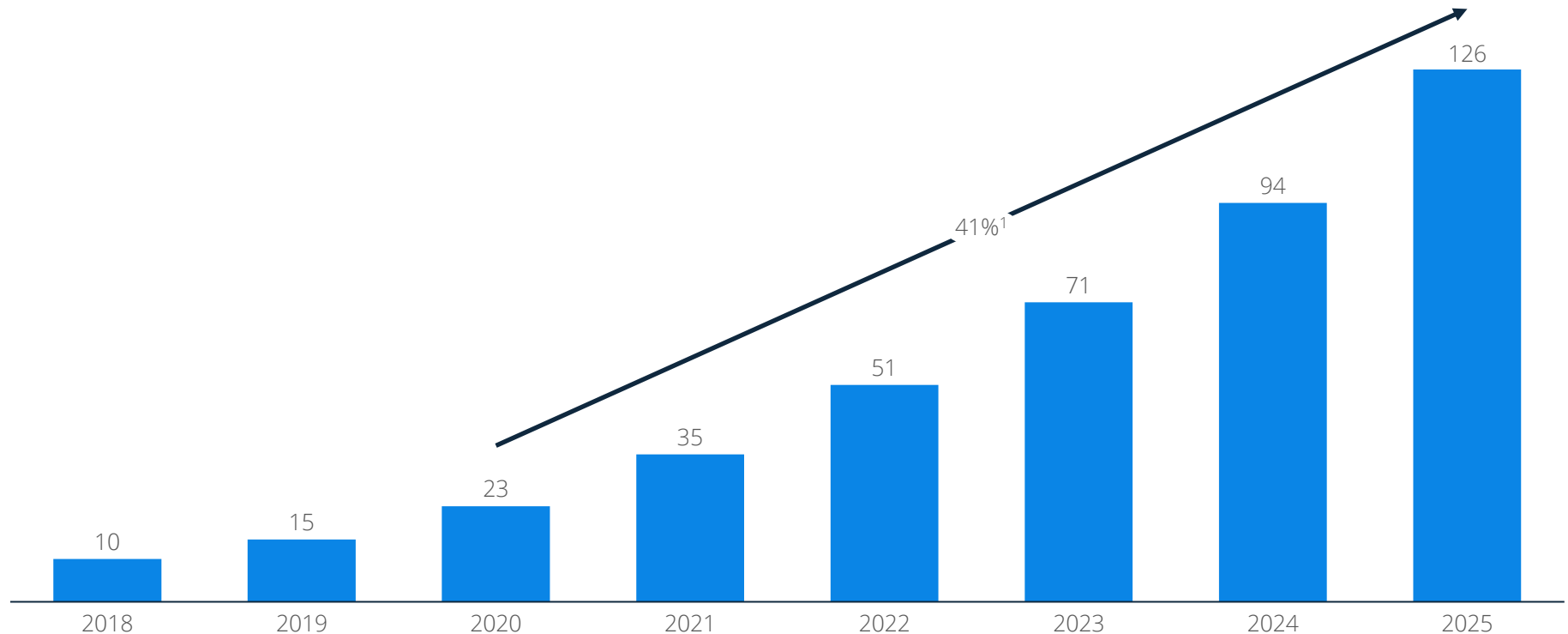
There are huge improvement potentials with the use of robotic process automation

Exemplary impacts of robotic process automation (RPA) application on repetitive tasks



The AI market is expected to grow to US\$126bn in 2025 with a CAGR¹ of 41% in 2020-2025

Global artificial intelligence revenue forecast in billion US\$²



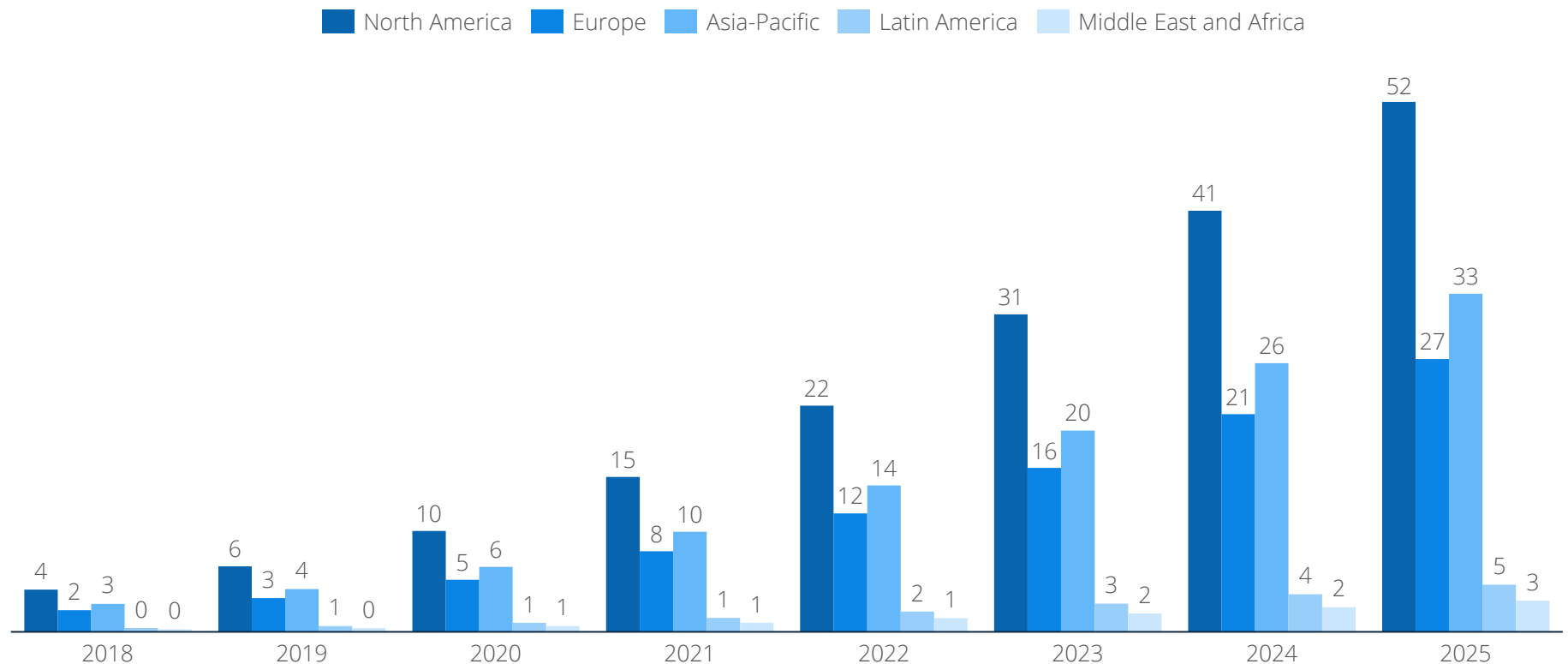
1: CAGR: Compound Annual Growth Rate/average growth rate per year

2: AI is a branch of computer science that deals with building smart machines that can perform tasks typically requiring human intelligence and includes the required software and services

Sources: Tractica, as of March 2020

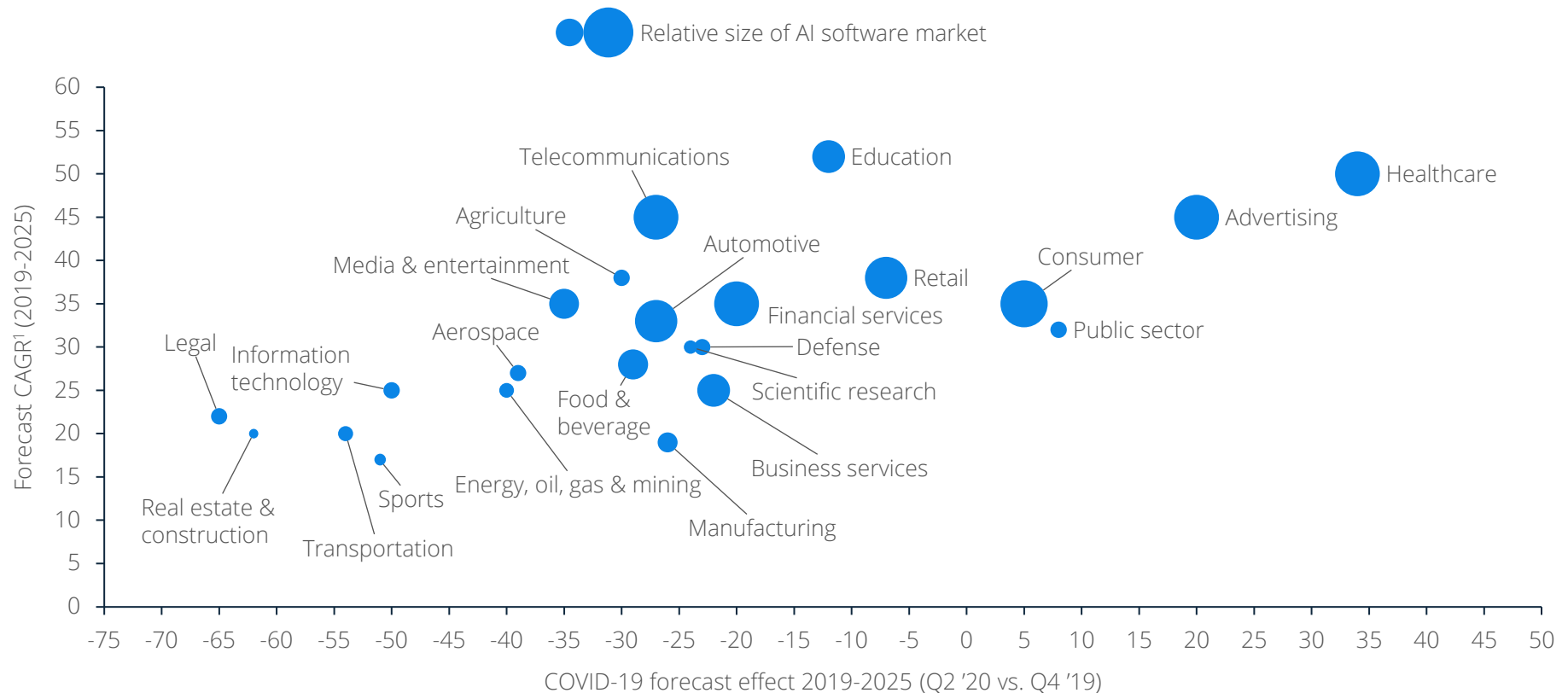
North America is the largest market for AI software, followed by Asia-Pacific and Europe

Regional AI software market revenue in billion US\$



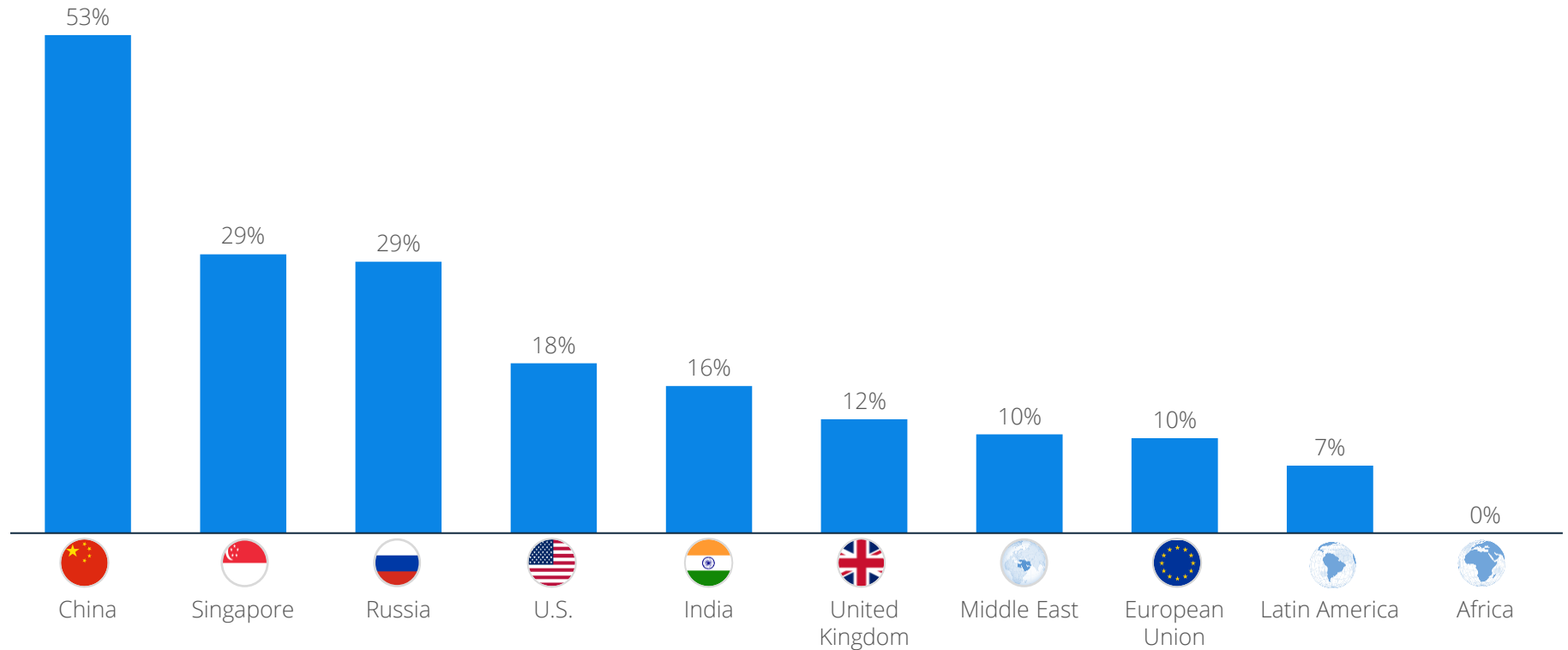
AI software revenue is impacted by COVID-19 with legal industry most severe growth decline

Global AI software revenue by industry: COVID-19 impact vs. 2019-2025 CAGR¹



AI growth is fueled by continuous innovation with China leading the way

Expert estimation in the field of most impactful countries in AI innovation in the next 2-5 years¹

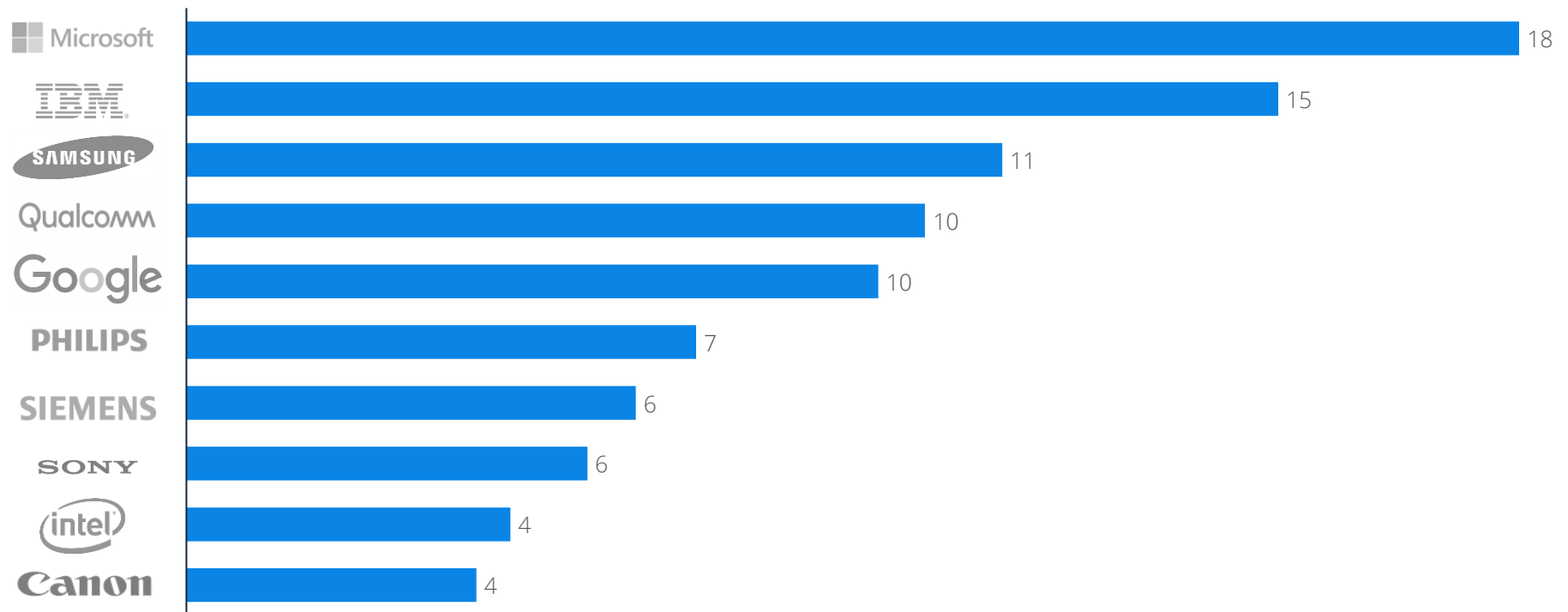


1: Survey conducted by Atlantic Council's GeoTech Center including more than 100 technology experts to record their expectations about the impact of COVID-19 on innovation in five key fields: the future of work, data and AI, trust and supply chains, space commercialization, and health and medicine

Sources: atlanticcouncil.org

Number of patent applications positions Microsoft as market leader, followed by IBM and Samsung

Number of AI patent applications globally in thousands



Continuous extension of AI market is driven by high applicability in all major areas of life

Exemplary use cases for AI

Smart home

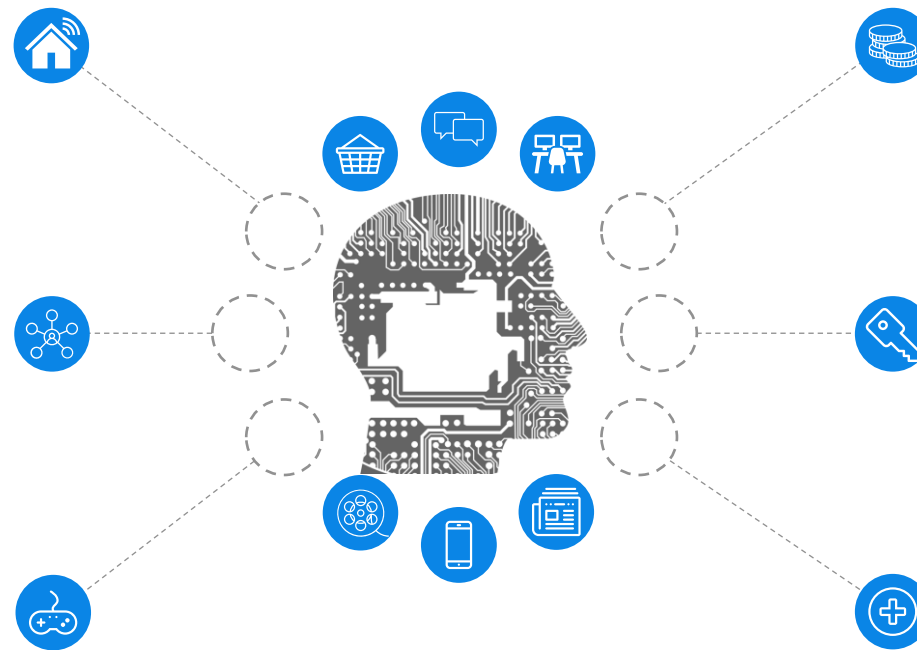
- Personal assistants
- Automatic goods ordering
- Home security & convenience

Social networks

- Photo recognition
- Newsfeed personalization
- Augmented reality filters

Gaming

- Thought-controlled gaming
- Gesture control
- Facial recognition avatars



Banking & personal finance

- Fraud protection
- Client segmentation
- Portfolio rebalancing

Cybersecurity

- Incident detection
- Incident response

Healthcare

- Autonomous surgical robots
- Automatic disease diagnosis
- Personalized treatments

The 5G ecosystem comprises a vast variety of market participants and business models

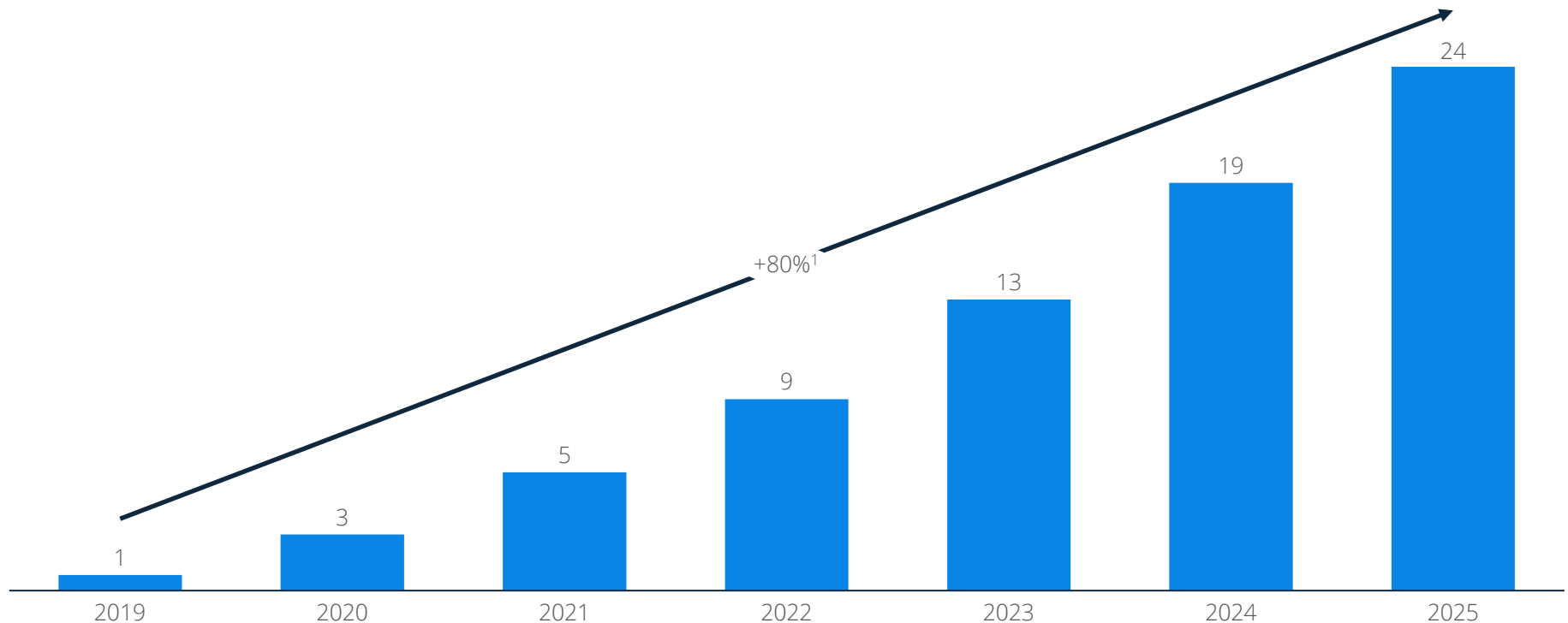
5G market ecosystem

5G phones	5G tower, small cells	5G management & orchestration	5G (new) radio access	5G voice & data processing (vEPC ¹)	Cloud service provider
    	     	     	     	     	      
5G testing	5G transport	5G network slicing	5G OSS/BSS ²	5G laptops	5G silicon, chip, device manufacturers
     	     	       	    	     	
5G open-source projects	5G assurance	Network control (SD-WAN ³)	5G system integrators	Security (SASE ⁴)	5G security
 	     	    	     	     	     

1: Virtual Evolved Packet Core 2: Operational & business support systems 3: Software Defined Wide Area Network 4: Secure Access Service Edge
Sources: Tecknexus

The 5G chipset market is expected to grow to US\$24bn in 2025 with a CAGR¹ of 80%

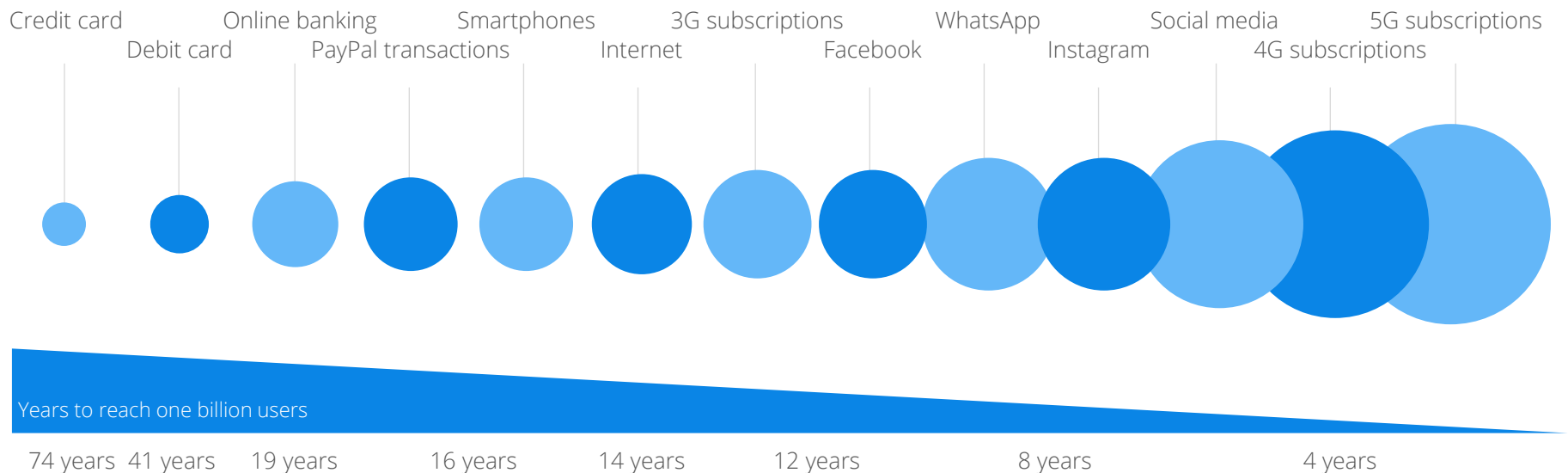
Global 5G chipset revenue forecast in billion US\$



5G users are expected to reach one billion faster than any other technological phenomena

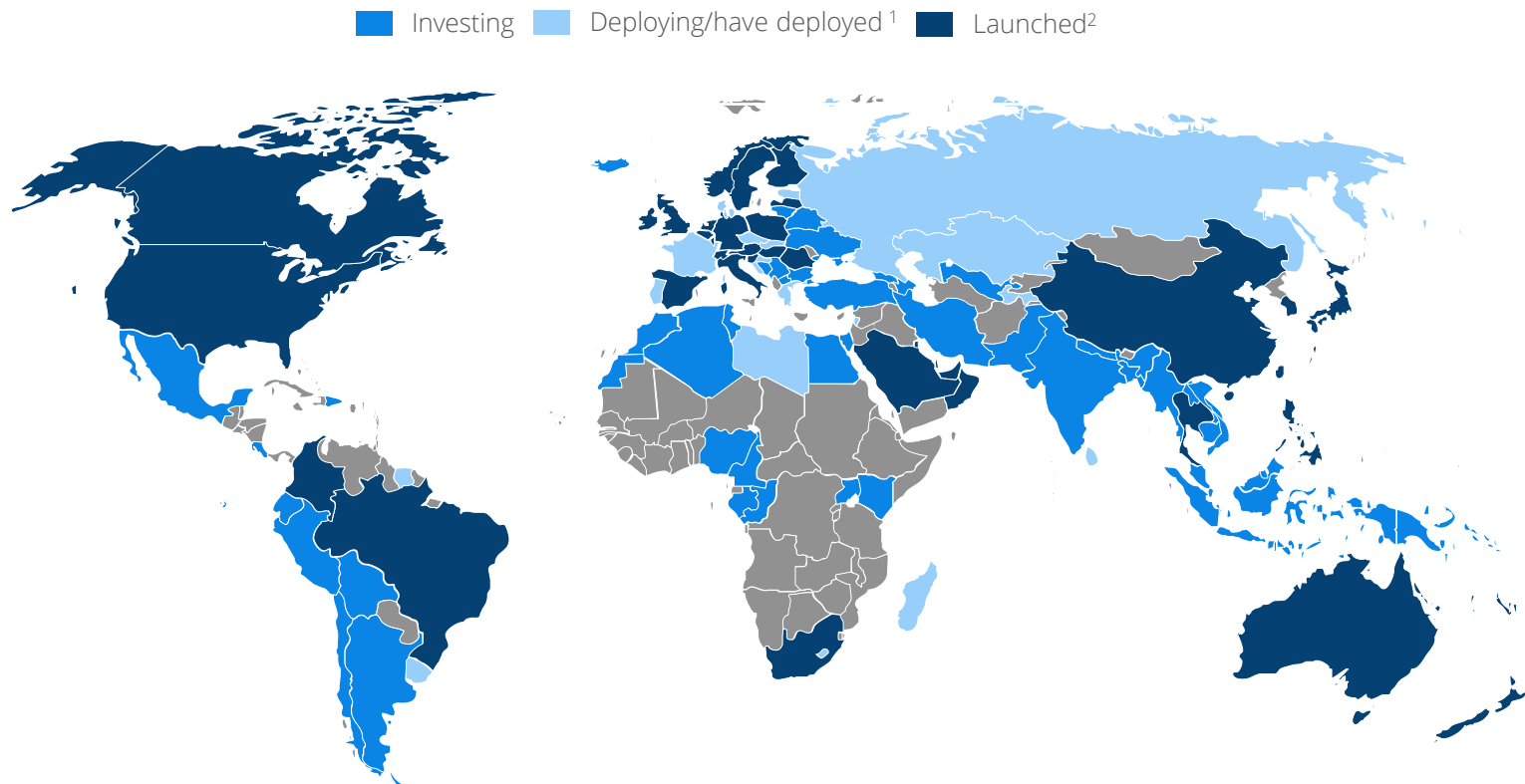
Yearly growth of users and time needed to reach one billion users

● Indicative user growth/year



The 5G expansion has already reached 129 countries with different development stages

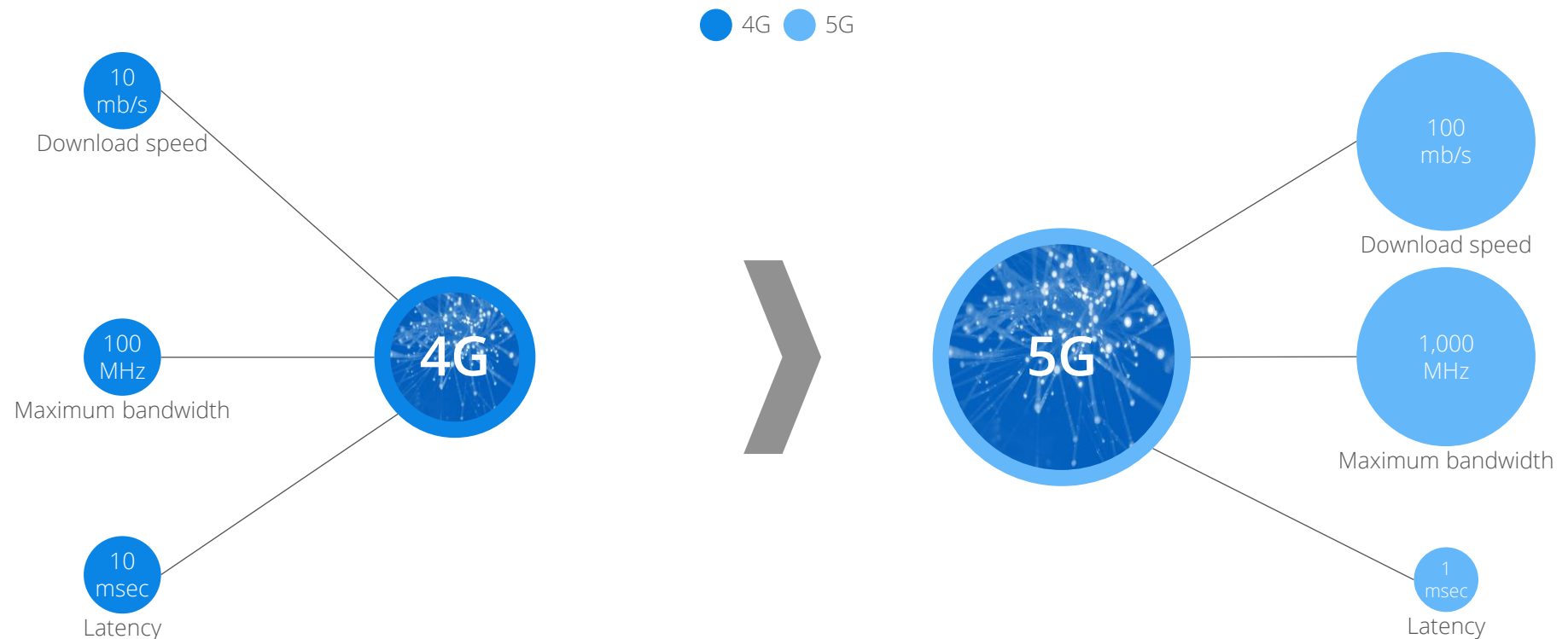
Global 5G operator investments



1: The operator has started actual construction/installation/deployment and maybe plotting the network in some locations 2: Commercial services are generally available to customers over a live 5G network
Sources: GSA, GSMA, as of August 2020

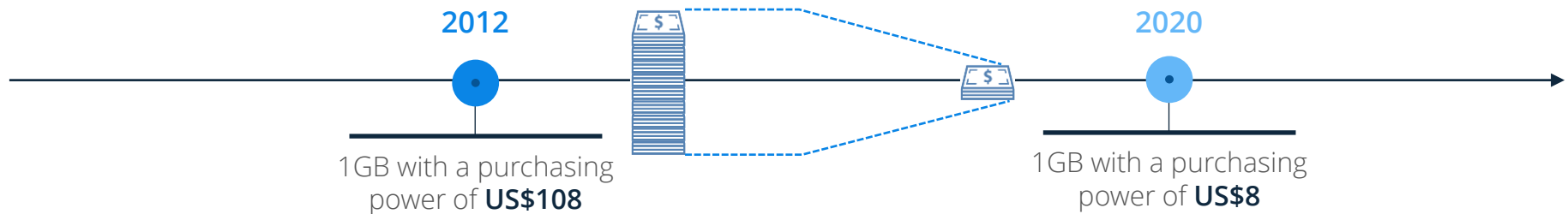
The revolutionary character of 5G drives its growth: a turning point for all performance specs

Comparison of key performance specifications of 4G and 5G networks

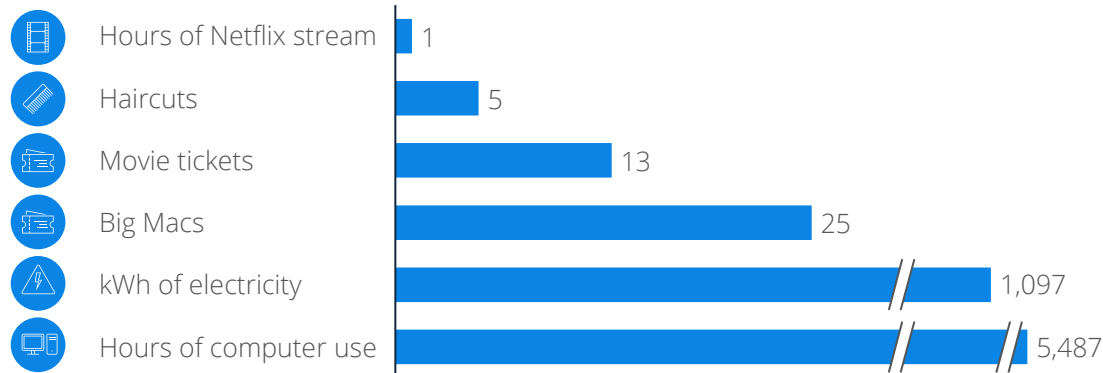


Mobile data prices have significantly decreased, from US\$108 in 2012 to US\$8 in 2020 per 1GB

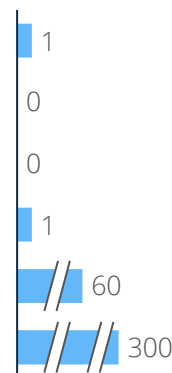
Change in the price of 1GB mobile data



What you can buy for... ... US\$108 in 2012

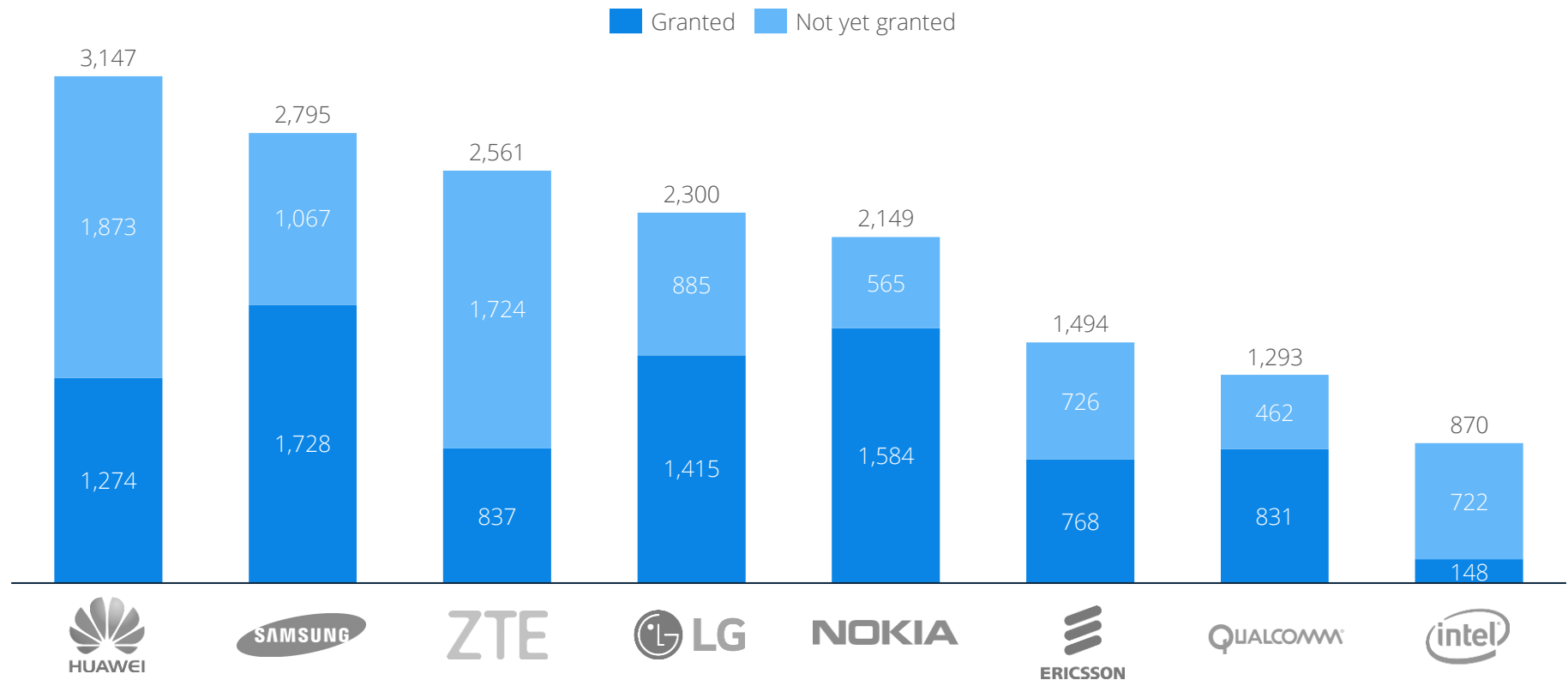


... US\$8 in 2020



Key players in the 5G market are Huawei, Samsung, ZTE, LG, and Nokia

Number of patents of leading 5G players



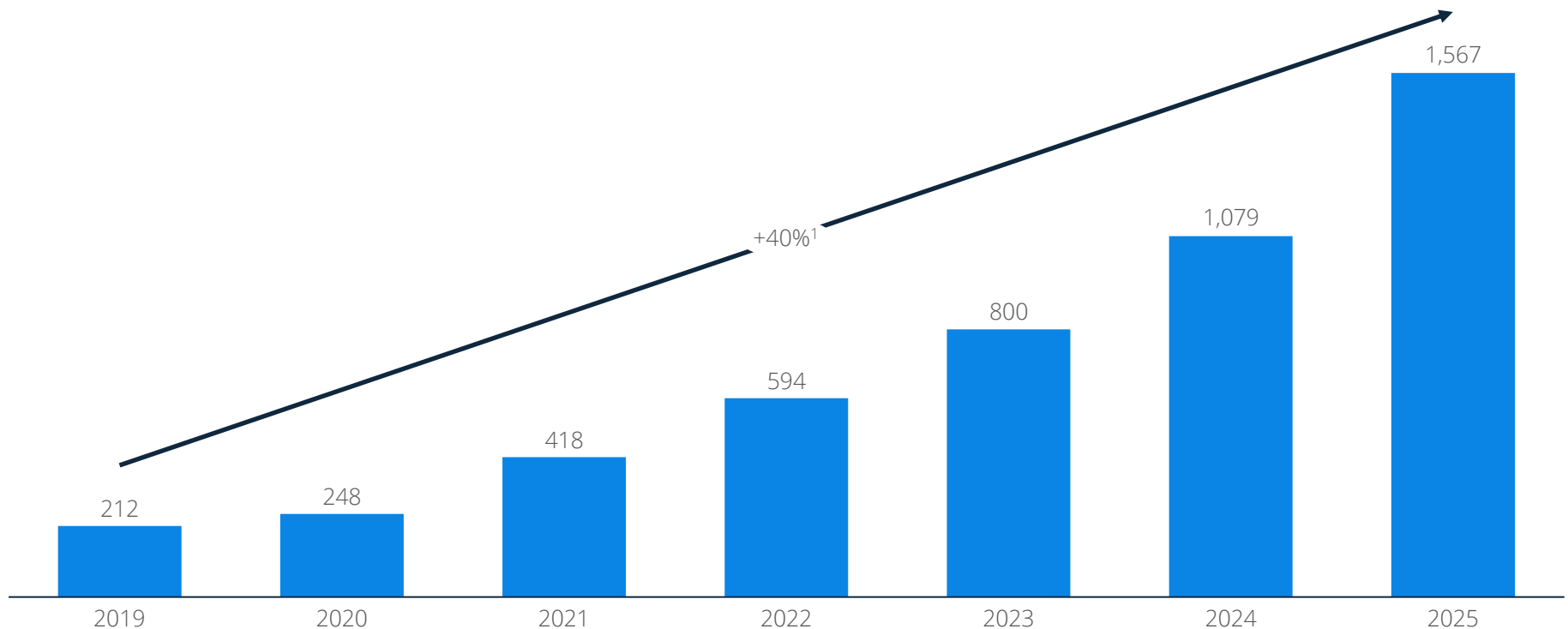
The IoT ecosystem comprises a vast variety of market participants and business models

IoT market ecosystem

Smart modules	Smart objects	Connectivity/ carrier	Platform	System integration	Applications
- SIM card - Sensors - Chips	- Cameras - Meters - Cars	- Network - Connectivity - Availability	- IoT enabling - Integration - Analysis	- Interfaces - Hardware - Backend	- Verticals - Solutions - Support

The IoT market is expected to grow to US\$1.6bn in 2025 with a CAGR¹ of 40% in 2019-2025

Global IoT revenue forecast in billion US\$²



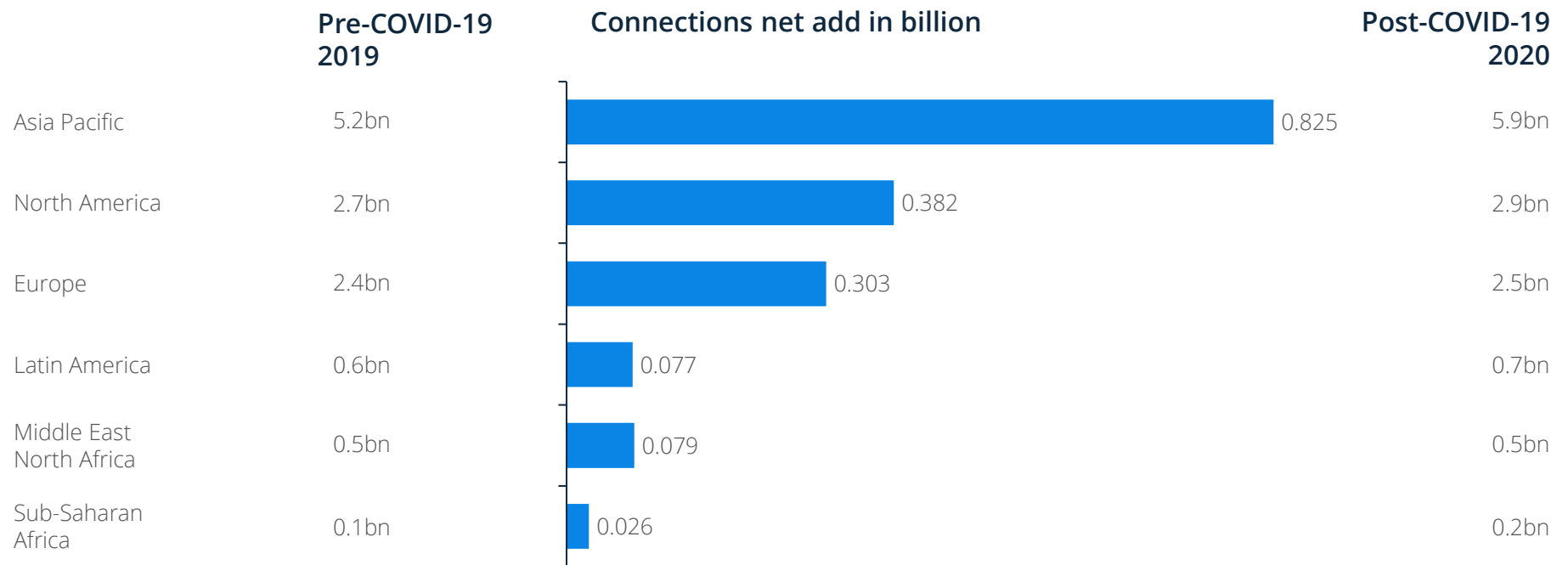
1: CAGR: Compound Annual Growth Rate/average growth rate per year

2: Shown here: End-user spending. IoT refers to interconnected equipment and products autonomously communicating with each other along the entire value chain. Includes handheld devices, home appliances, industrial internet, connected cities, and digital virtual assistants

Sources: Finch Capital, IoT Analytics, Statista

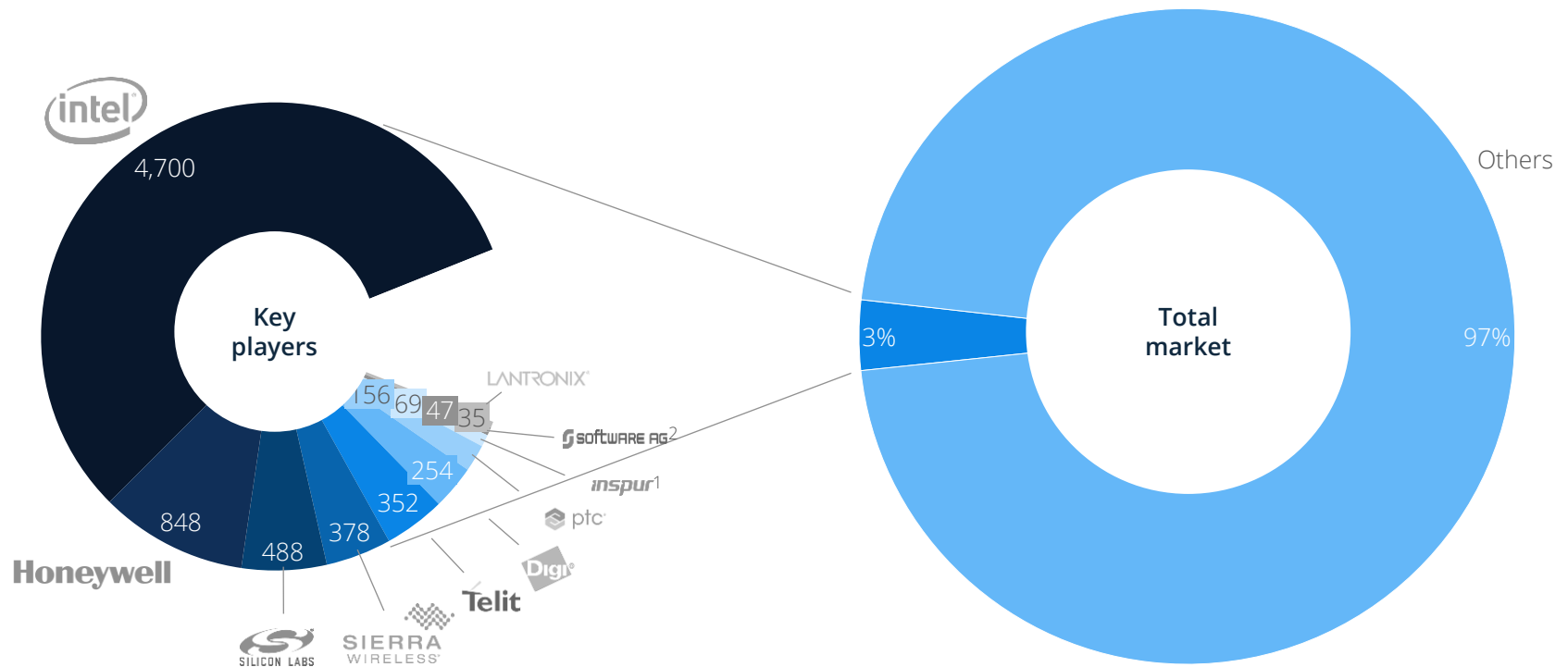
Strongest increase of IoT connections despite COVID-19 is in Asia Pacific, followed by North America

IoT connections pre-COVID-19 vs. post-COVID-19



Key players in highly fragmented IoT include Intel, Honeywell, Silicon Labs, and Sierra Wireless

Global market shares of key players in IoT market in million US\$ in 2019

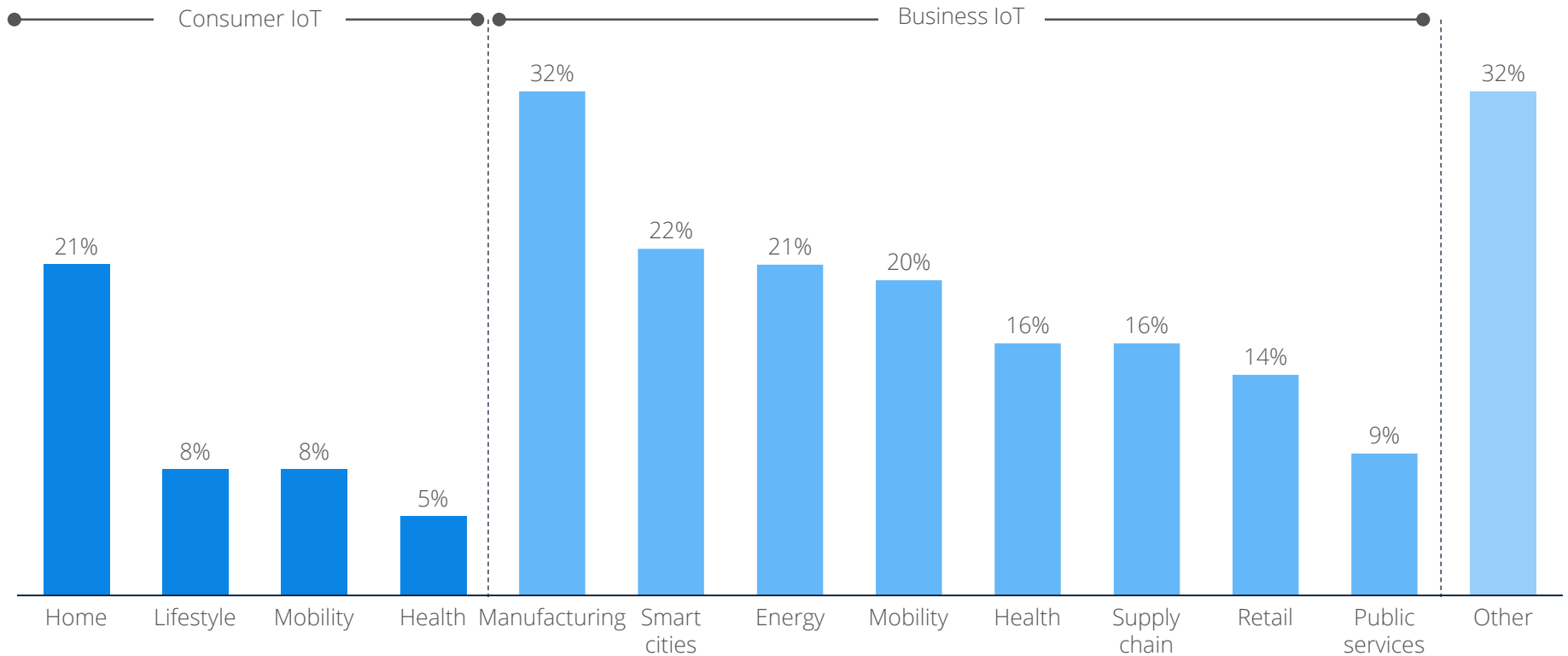


1: Converted from HKD to US\$, exchange rate: HKD-US\$ 0.12841, as of December 31, 2019 2: Converted from € to US\$, exchange rate: €-US\$ 1.11986, as of December 31, 2019

Sources: Company annual report 2017, 2018, and 2019

IoT platforms focus on business rather than consumer applications

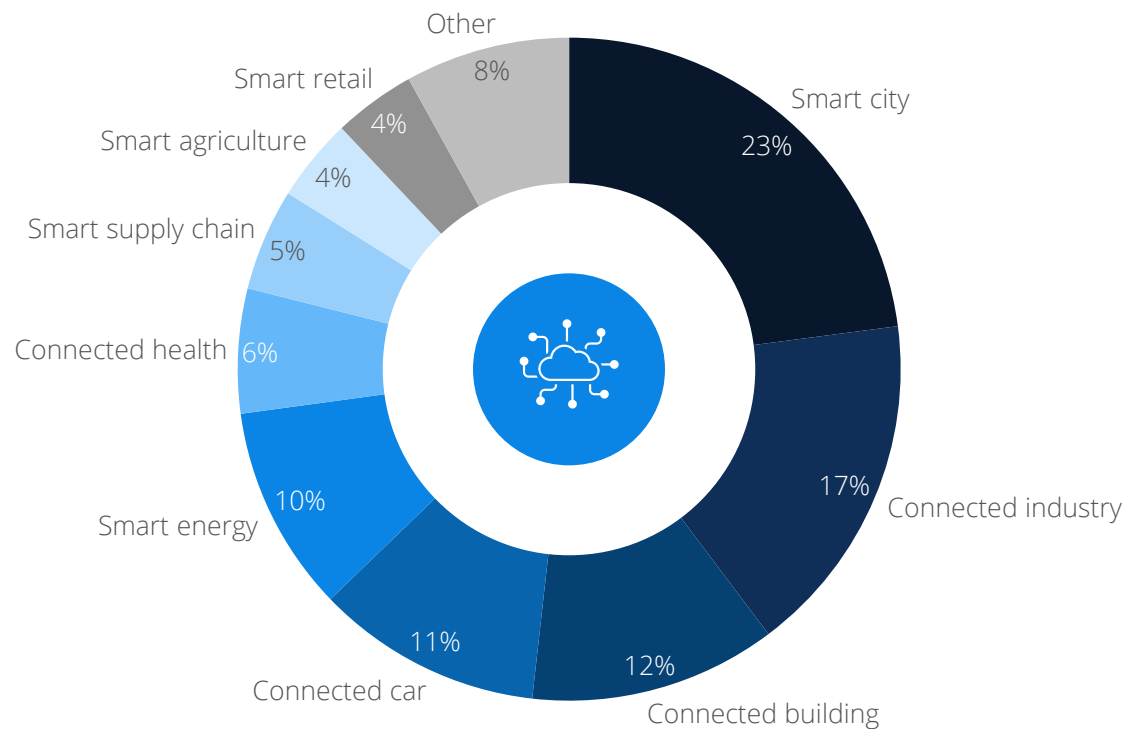
Global percentage of IoT vendors with product offering in each segment¹



124 1: Sum larger than 100% due to vendors having offerings in more than one segment
Sources: IoT Analytics

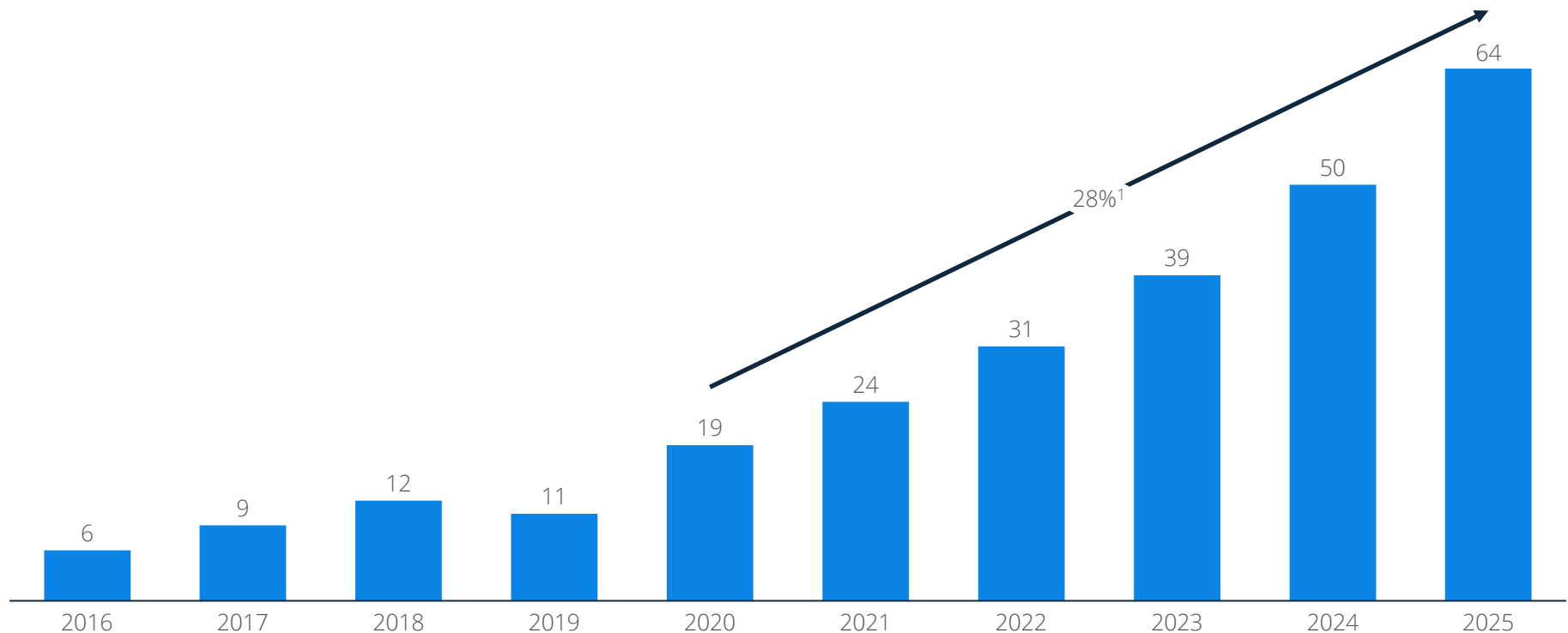
Most IoT projects are conducted in the smart city and connected industry segments

Global share of IoT projects per segment



The AR/VR market is expected to grow to US\$64bn in 2025 with a CAGR¹ of 28% from 2020-2025

Global AR/VR revenue forecast in billion US\$²

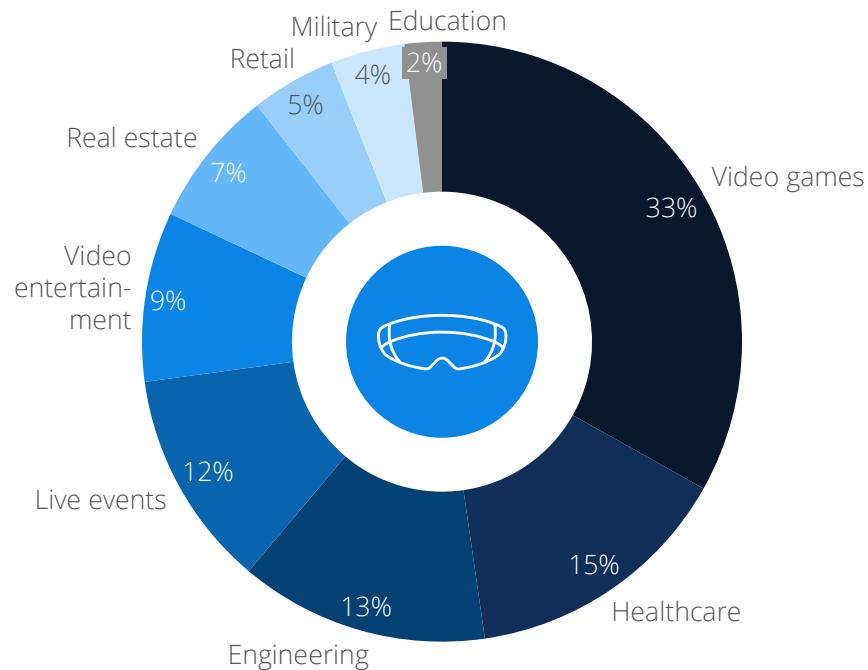


1: CAGR: Compound Annual Growth Rate/average growth rate per year 2: Virtual reality (VR) is a computer-generated simulation of a real-life environment that enables the user to experience a particular situation firsthand. Augmented reality (AR) on the other hand is a computer simulation that not only creates a virtual environment mirroring the actual one but also adds virtual enhancements on top of it, in order to make the environment more interactive for the user

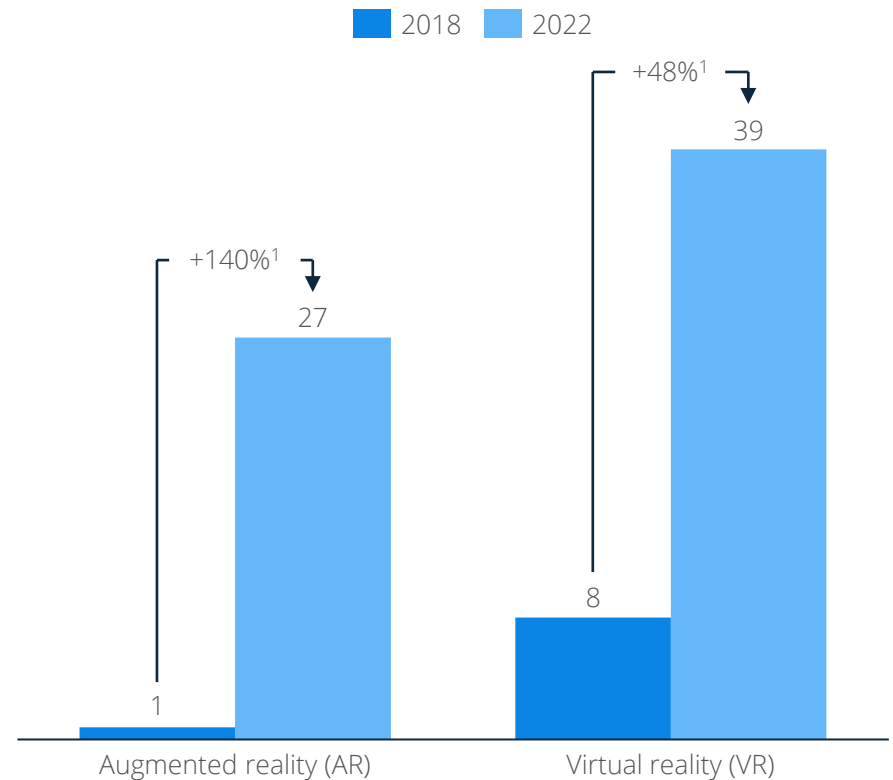
Sources: IDC, MarketsandMarkets

Video games expected to account for largest share of AR/VR use cases in 2025

Estimated use case shares of AR/VR software in 2025

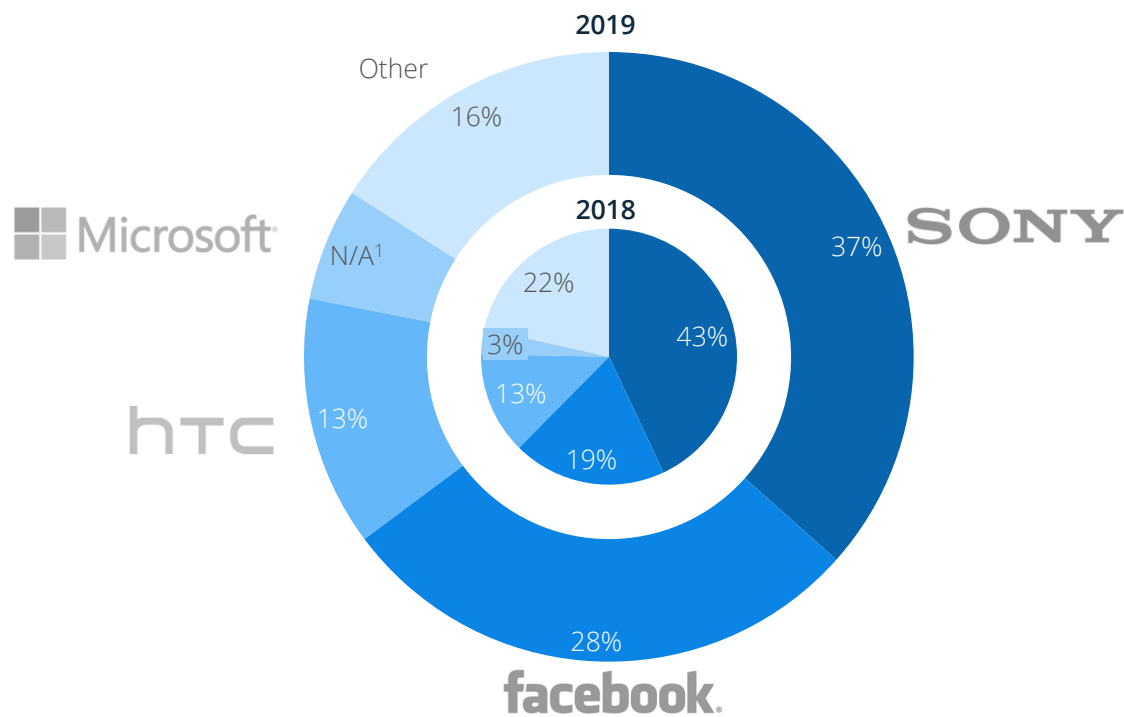


Estimated global headset shipments in millions



Key players in AR/VR are Sony, Facebook, and htc, with Facebook challenging Sony as incumbent

Global market shares of key players in AR/VR market



128 1: No data available but expected to be growing and highly relevant player in the market
Sources: TendForce, Statista

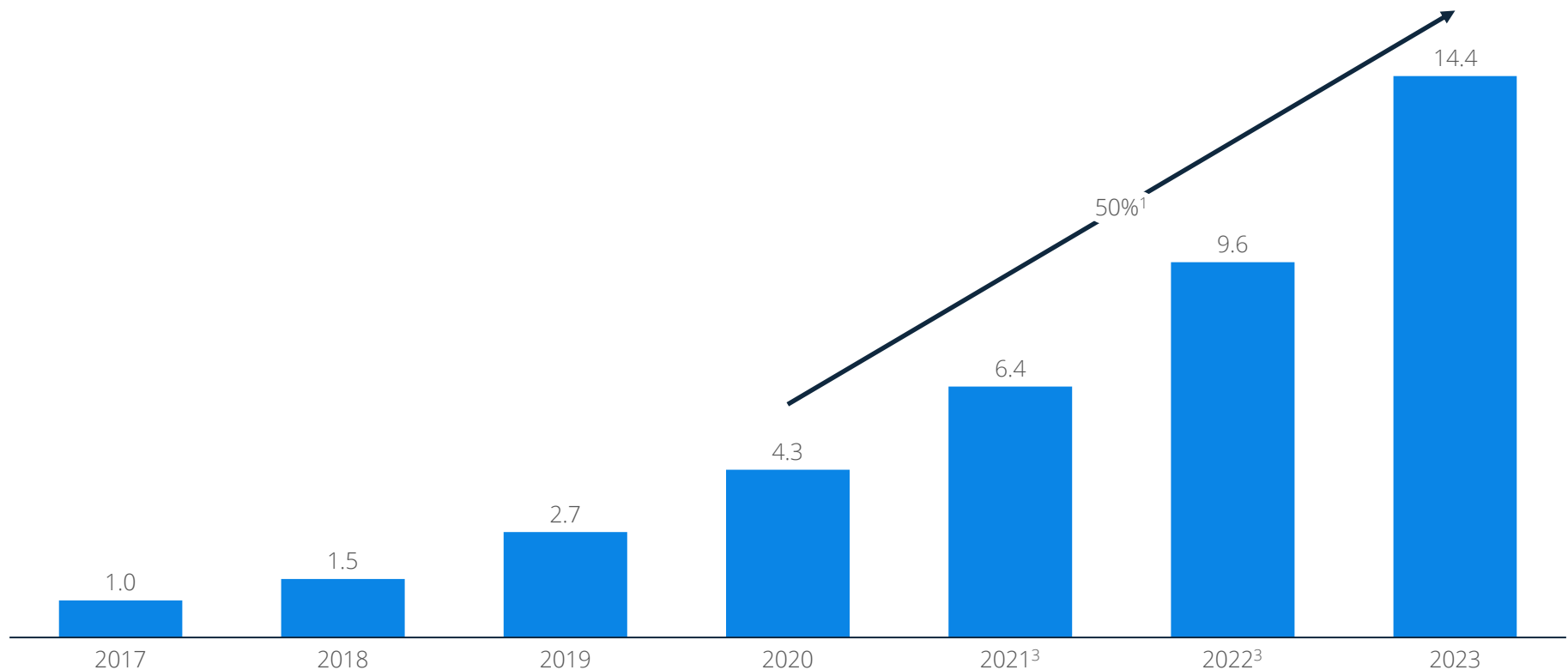
The blockchain ecosystem comprises a vast variety of infrastructure and service providers

Blockchain market ecosystem

Marketing	Cryptofund	Analysis & ratings	Platform	Payment	Media
    	    	    	    	    	    
Exchange & trading	Networking	Token sale	Mining	Utilities	
    	 	   	    	         	

The blockchain market is expected to grow to US\$14bn in 2023 with a CAGR¹ of 50% in 2020-2023

Global blockchain revenue forecast in billion US\$²

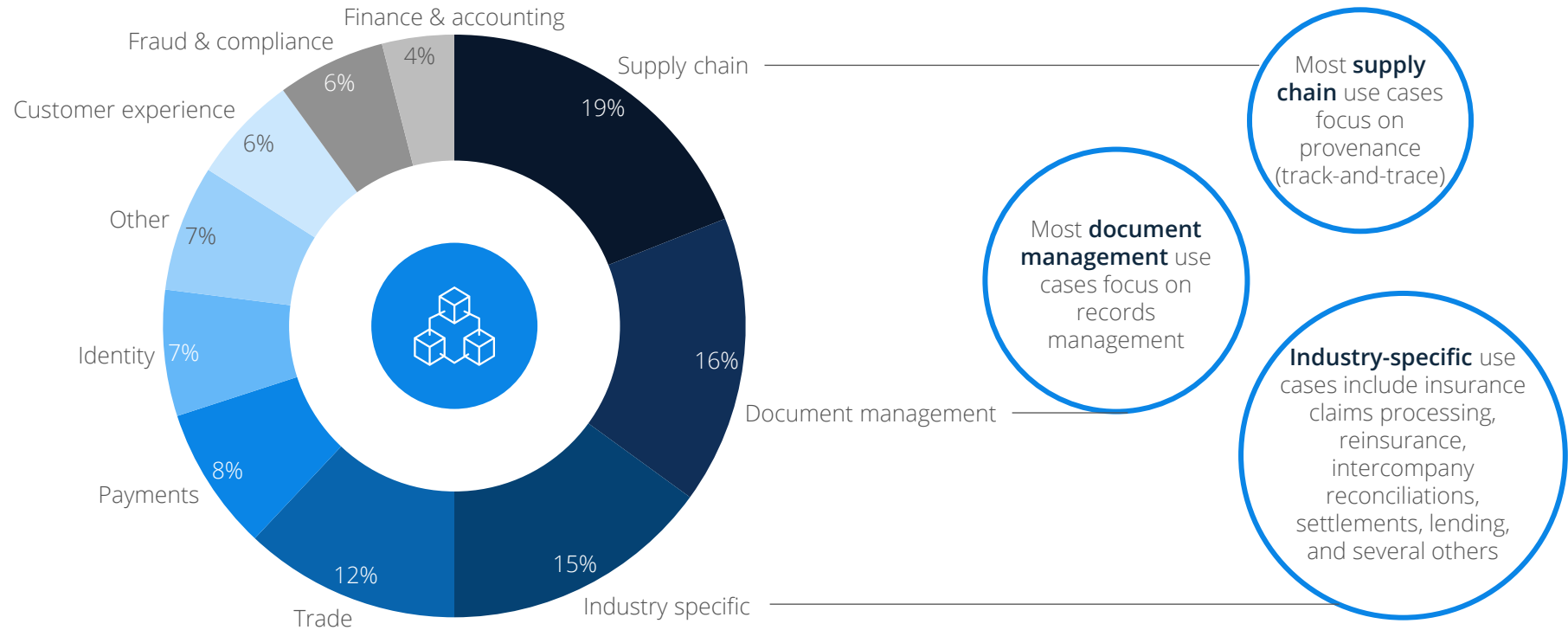


1: CAGR: Compound Annual Growth Rate/average growth rate per year 2: Blockchain is a distributed ledger technology that can be used to execute, store, and verify transactions of every kind. It allows parties to make and verify transactions or contracts instantly without the approval of a central authority. It includes cross-border payments and settlements, lot lineage/provenance, trade finance & post trade, asset/goods management, and identity management 3: Data projected considering 2020-2023 CAGR

Sources: IDC, as of June 2020

Most blockchain engagements are in supply chain and document management

Number of blockchain engagements per industry

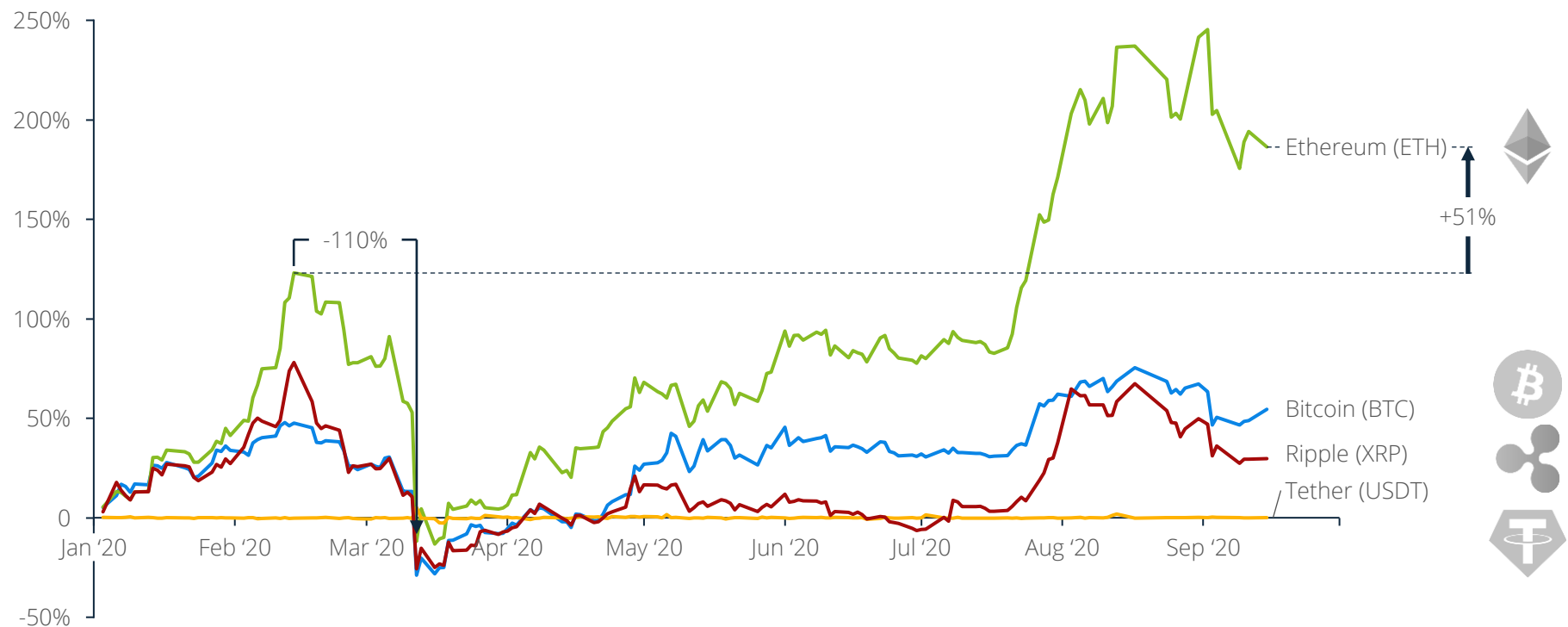


1: n=~640 blockchain engagements across 12 service providers (Accenture, Cognizant, DXC, EY, IBM, Infosys, KPMG, LTI, Mphasis, NTT DATA, TCS, and Wipro)

Sources: HFS Research Ltd, EY, as of April 2020

Almost all cryptocurrencies were down in Mar '20 but recovered by Q4 '20

Year-to-date performance of major cryptocurrencies





DIGITAL MARKETS



eCommerce

In the last decade, the eCommerce market has evolved from a simple concept of brick-and-mortar retail to a shopping ecosystem that involves multiple devices and store concepts. Many players from both online and offline retail are moving to multi-channel strategies and are continuously reinventing the way we shop online. Expectations are growing rapidly as customers discover more convenience on all levels – be it product customization, mobile-optimized search, quick checkout processes, and/or hassle-free delivery.

The Statista Digital Market Outlook divides the eCommerce market into five product segments: Fashion, Electronics & Media, Toys, Hobby & DIY, Food & Personal Care, and Furniture & Appliances.

In 2020, the global eCommerce market was worth US\$2.4 trillion. China was the biggest eCommerce market globally, generating revenues of US\$1,116 billion. China's eCommerce market growth is fueled by both the increasing purchasing power of the local population and cross-

border eCommerce. With revenues of US\$411 billion in 2020, the U.S. constitutes the second biggest eCommerce market, followed by Japan with US\$105 billion.

Chinese key market players such as Alibaba Group, JD, and Tencent jointly contribute to the comprehensive eCommerce ecosystem in China – and are increasingly penetrating other promising Asian markets such as Indonesia and India. The Chinese population is tech savvy and mobile-first, and Chinese eCommerce giants are therefore constantly pushing technology forward. They have diversified into literally every sphere that comes in touch with online retail, from payments to logistics. Current developments in China will – to a large extent – define the next decade's global eCommerce.

In the U.S. the biggest three players in the eCommerce market are Amazon, Walmart and Apple eCommerce players. Amazon also dominates the most relevant European eCommerce markets.

We have been observing three major trends in the eCommerce market:

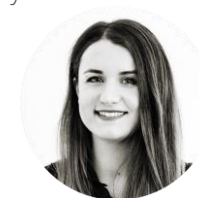
The growth of cross-border eCommerce is a hot topic in the Western markets, especially within the EU free trade zone. Geographic proximity and logistics make it possible for sellers to offer attractive shipping times and convenient returns to not only local buyers but to the entire EU population. Cross-border eCommerce is also an opportunity for players from the mature UK, French, and German markets to expand their businesses to all corners of Europe.

eCommerce marketplaces continue to gain momentum. Marketplaces such as eBay and Amazon have a firm grip on the market as they have long become primary product search engines. They enjoy a significant amount of repeat customers, who come back for best prices, transparent quality, and easy returns. We expect marketplaces to become the primary shopping destination for almost all product categories. The exception will be context-rich categories such as luxury goods, interior design, and fashion, where stand-alone shops will have their share of the market.

Mobile eCommerce is now the fastest-growing segment as customers

enjoy shopping on the go and increasingly browse shops and place orders on their smartphones or tablets. Its scope is not limited to creating mobile-friendly shop interfaces or separate shopping apps. Rather, its major potential lies in AI applications, augmented reality, voice eCommerce, and customer profiling.

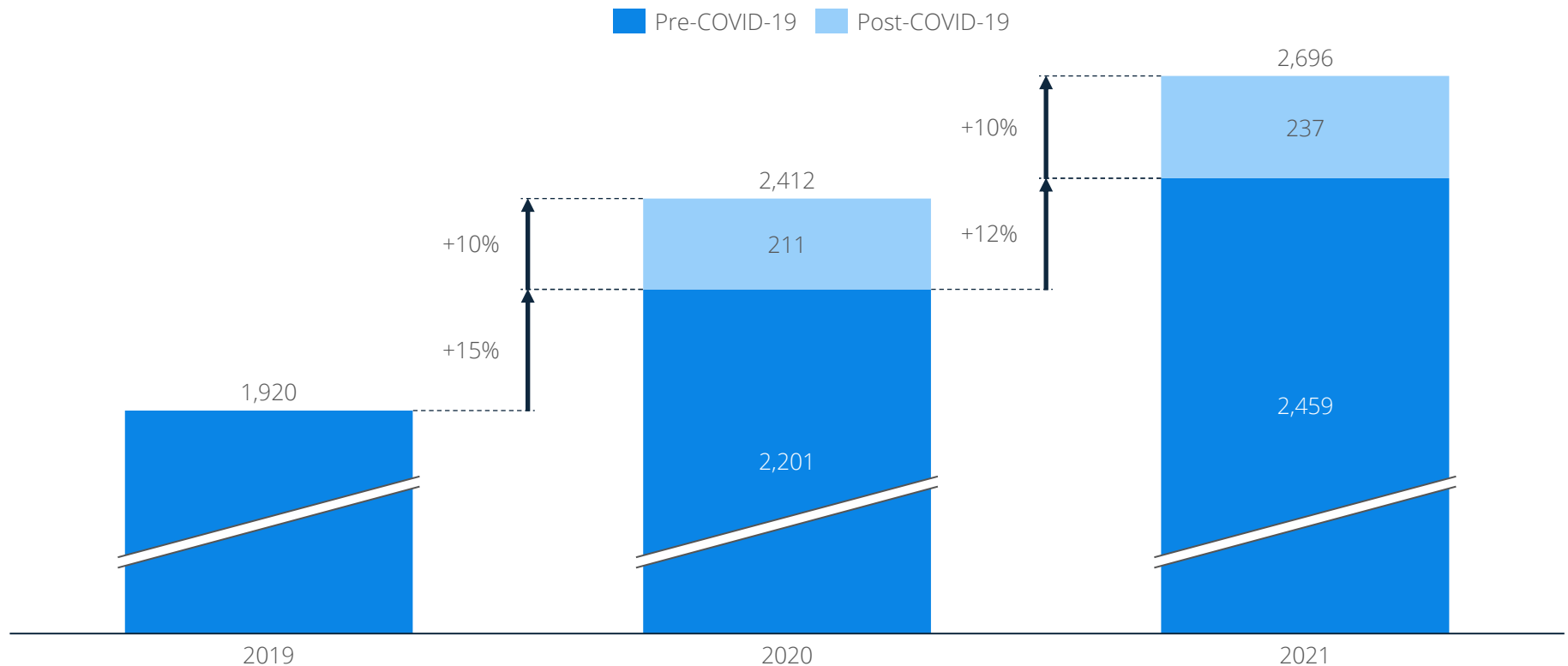
Both online-only players and traditional retailers are developing various multi-/cross-channel strategies to reduce inconvenience and increase customer satisfaction throughout the customer journey. Package delivery boxes and precise delivery times for working people, drone deliveries of time-sensitive products such as medicines as well as same-day-delivery services are only a few of many ambitious innovations and optimizations in the area of product and service delivery.



Rotar Alexandra
a.rotar@statista.com

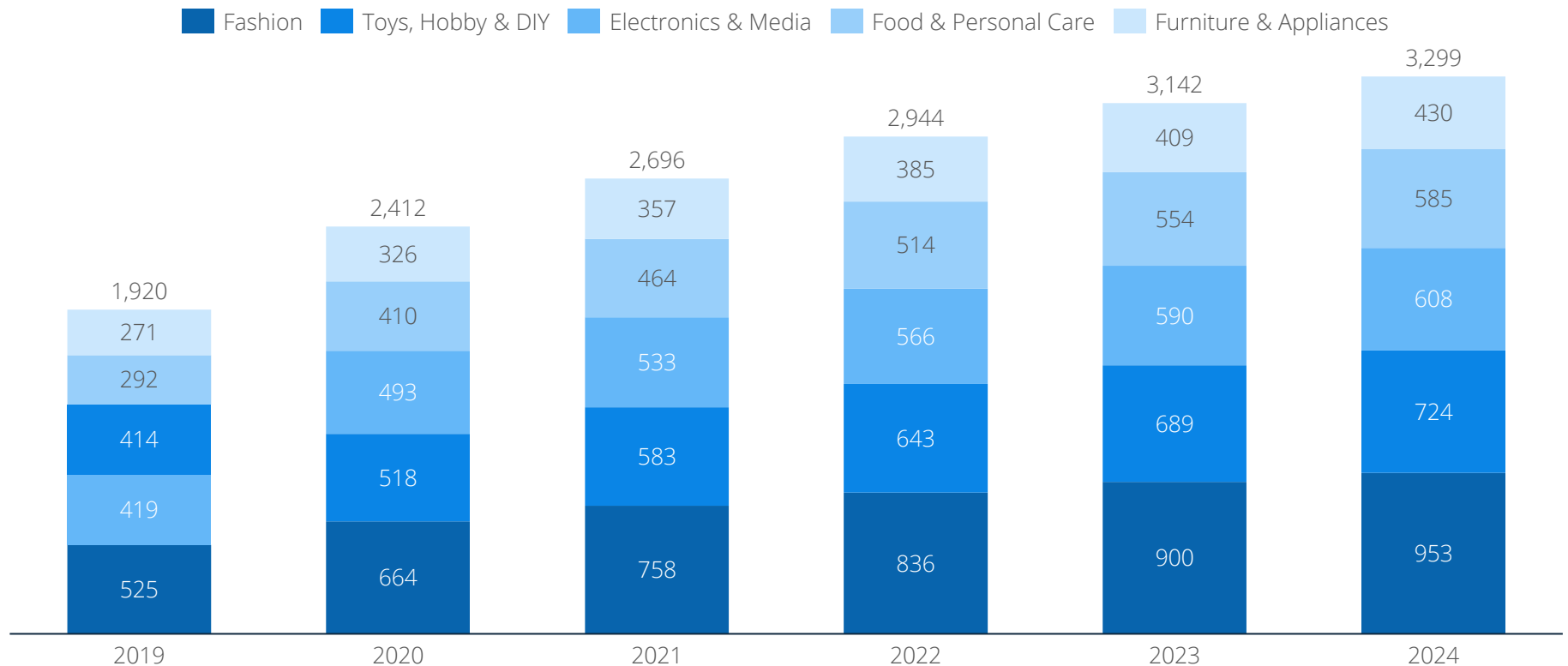
Global eCommerce revenues are expected to see an additional growth of 10% in 2020 due to COVID-19

Global eCommerce revenue forecast in billion US\$



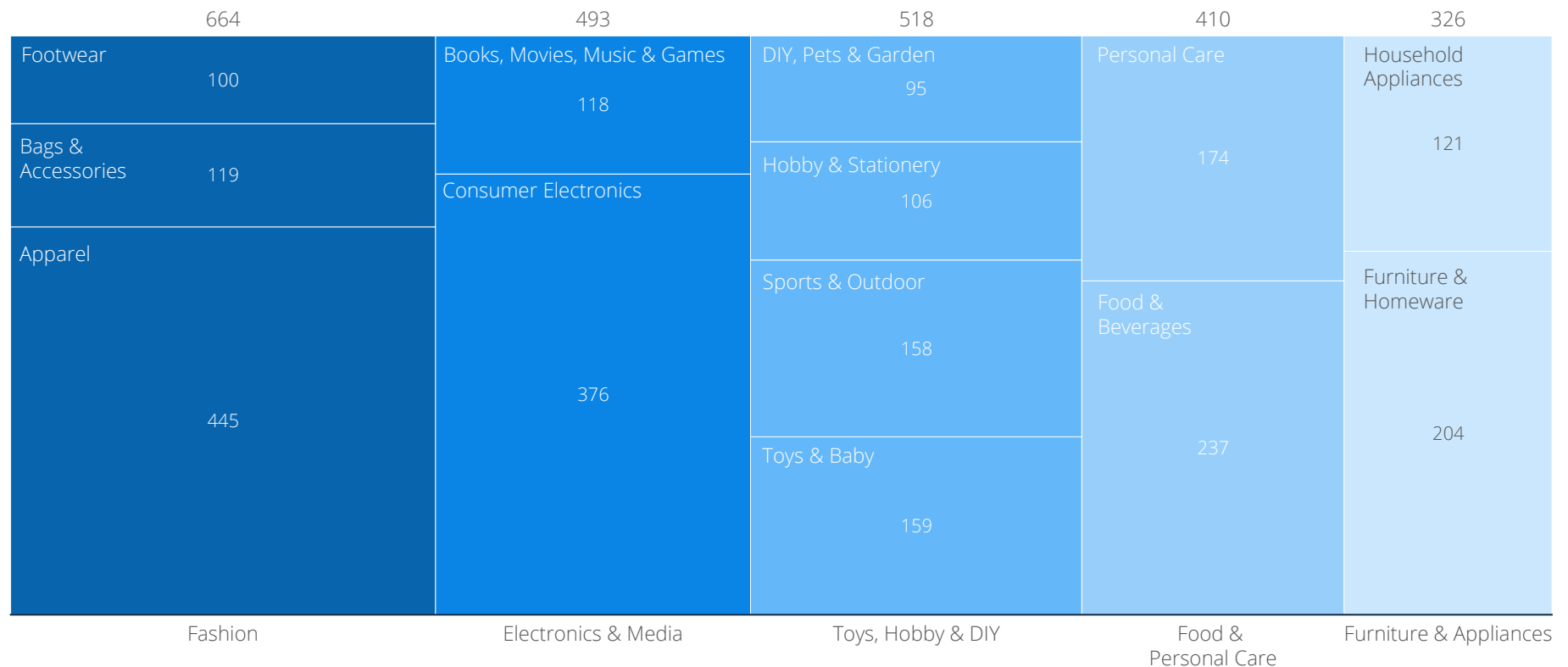
The eCommerce market is expected to reach US\$3.3 trillion by 2024 with Fashion as largest segment

Global eCommerce revenue forecast in billion US\$



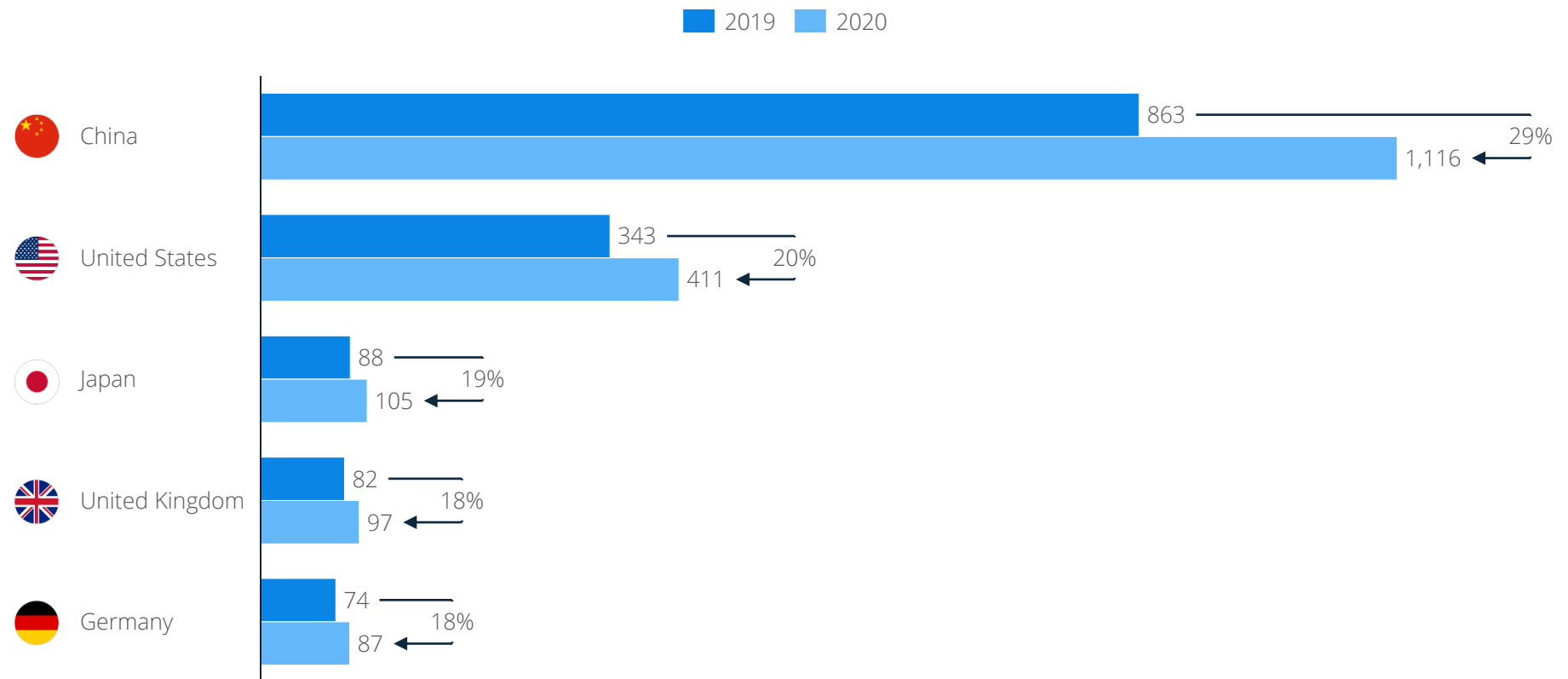
Apparel is the biggest segment in eCommerce followed by Consumer Electronics

Global eCommerce revenue in billion US\$ in 2020



China is expected to grow by nearly 30% and remain #1 in global eCommerce

Top 5 eCommerce countries by market revenue in billion US\$



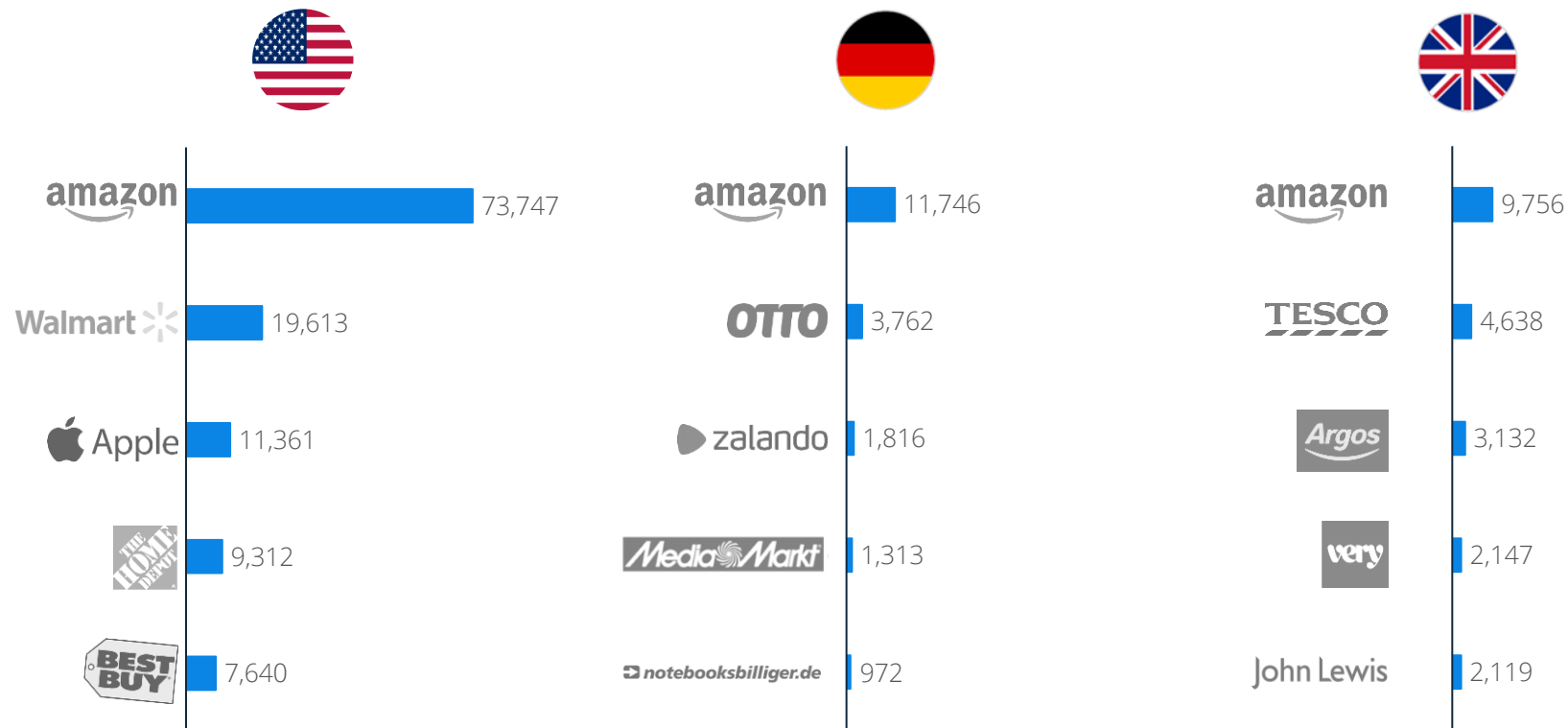
The range of marketplaces, retailers, and direct sellers is broad due to the high variety of product categories

Selected key players in eCommerce

	Fashion	Electronics & Media	Toys, Hobby & DIY	Furniture & Appliances	Food & Personal Care
Marketplaces	 	 			
Online retailers	   	 	     	  	   
Direct sellers	  	   	   	    	  

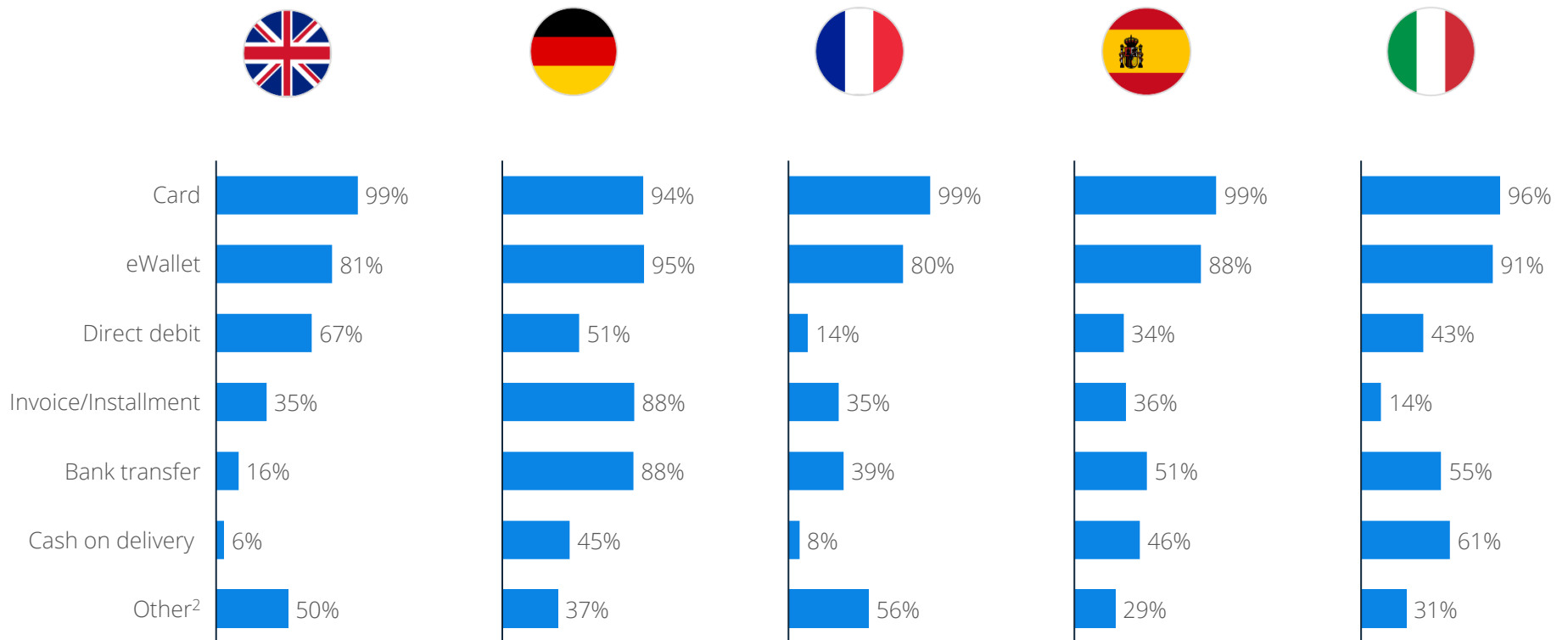
Amazon is the #1 online shop in the U.S., the UK, and Germany

Top 5 online shops by revenue in million US\$ in 2019



Cards and eWallets are the most predominant payment methods offered in Europe

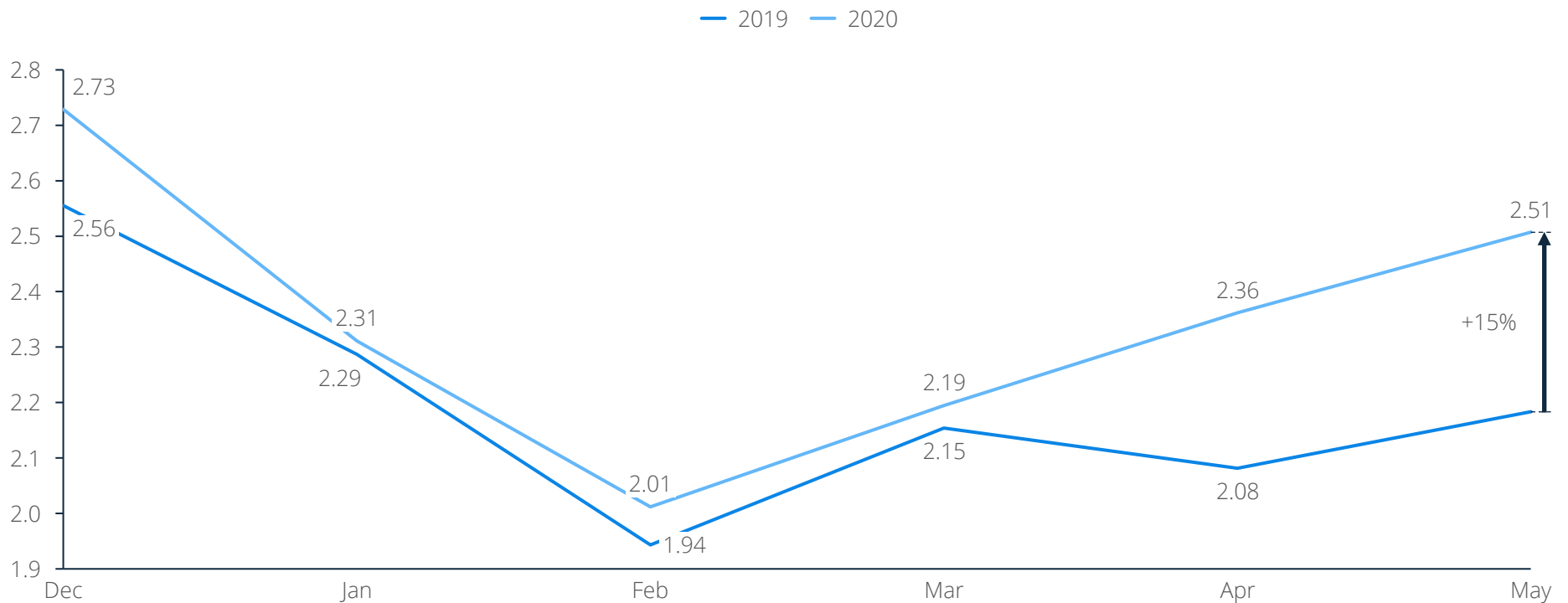
Payment methods offered by online stores in 2019¹



1: Payment methods offered in the main country (covered by the ecommerceDB). A store can offer more than one payment methods (Multi-Pick) 2: Includes gift cards and check. Base: top 500 online stores by net sales for which payment information is available (Italy and Spain top 250)
Sources: [Statista ecommerceDB](#), as of September 2020

For amazon.com, May 2020 seemed like Christmas with visits to amazon.com up to +15%

Total visits to amazon.com in billion



1: Difference in total visits to amazon.com from March to May in 2020 versus 2019

Note: More information in the [Statista ecommerceDB](#)

Sources: SimilarWeb

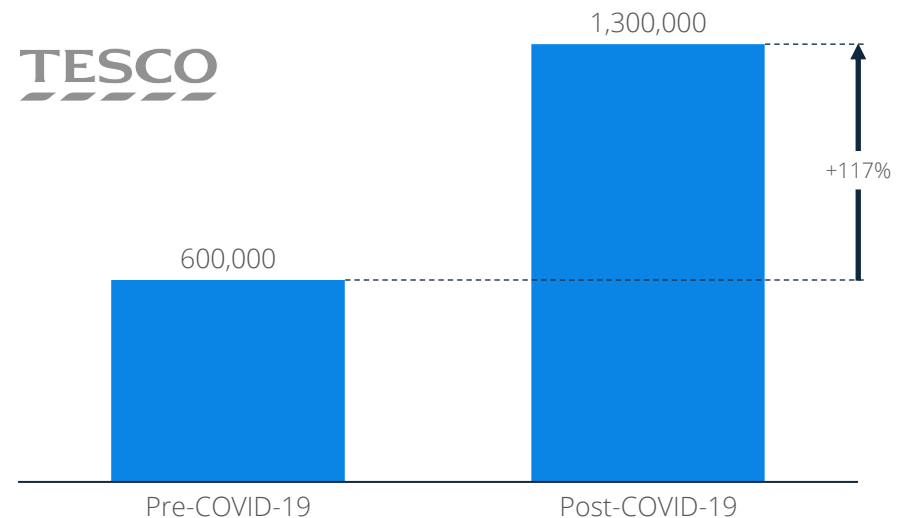
eCommerce players reacted to increased demand by hiring more people and extending home shopping

New employees hired during COVID-19



- Since March, Amazon has hired 175,000 additional people in its fulfillment and delivery network in response to increased customer demand and to assist existing employees.
- In April 2020, the retail giant Walmart announced that it succeeded in hiring 150,000 additional workers more than six weeks ahead of schedule. On average, 5,000 people per day were hired using an expedited hiring process.

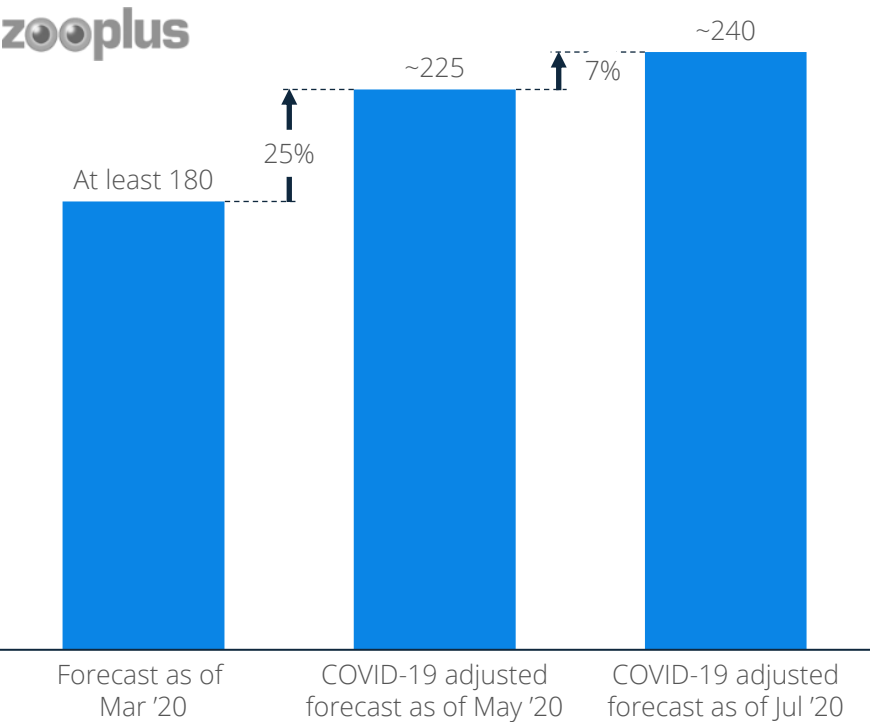
Number of Tesco's weekly grocery home shopping slots



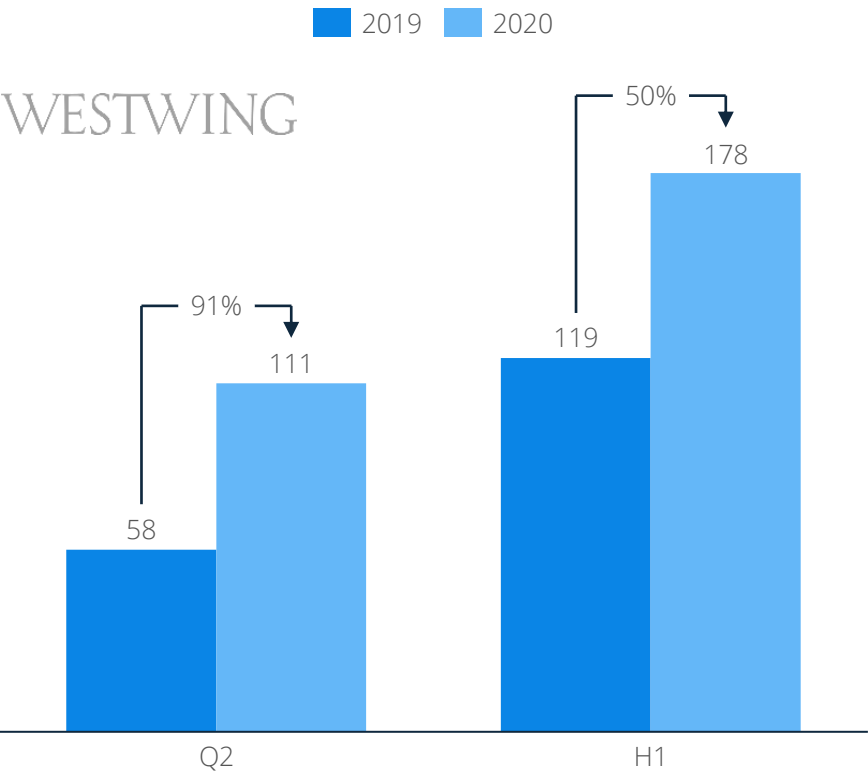
- Tesco, the UK's largest online grocery store, more than doubled its weekly slots for grocery home shopping during the COVID-19 crisis to meet soaring consumer demand. An order is placed online at Tesco and the customer can pick up their grocery or it will be delivered.
- Sales in its online channel increased by +48.5% (13 weeks ending May 30, 2020) in the UK.
- In May 2020 alone, Tesco's online sales surged by more than 90%.

Revenue of eCommerce players grew extensively and beyond expectations

Zooplus sales growth forecast 2020 in million €

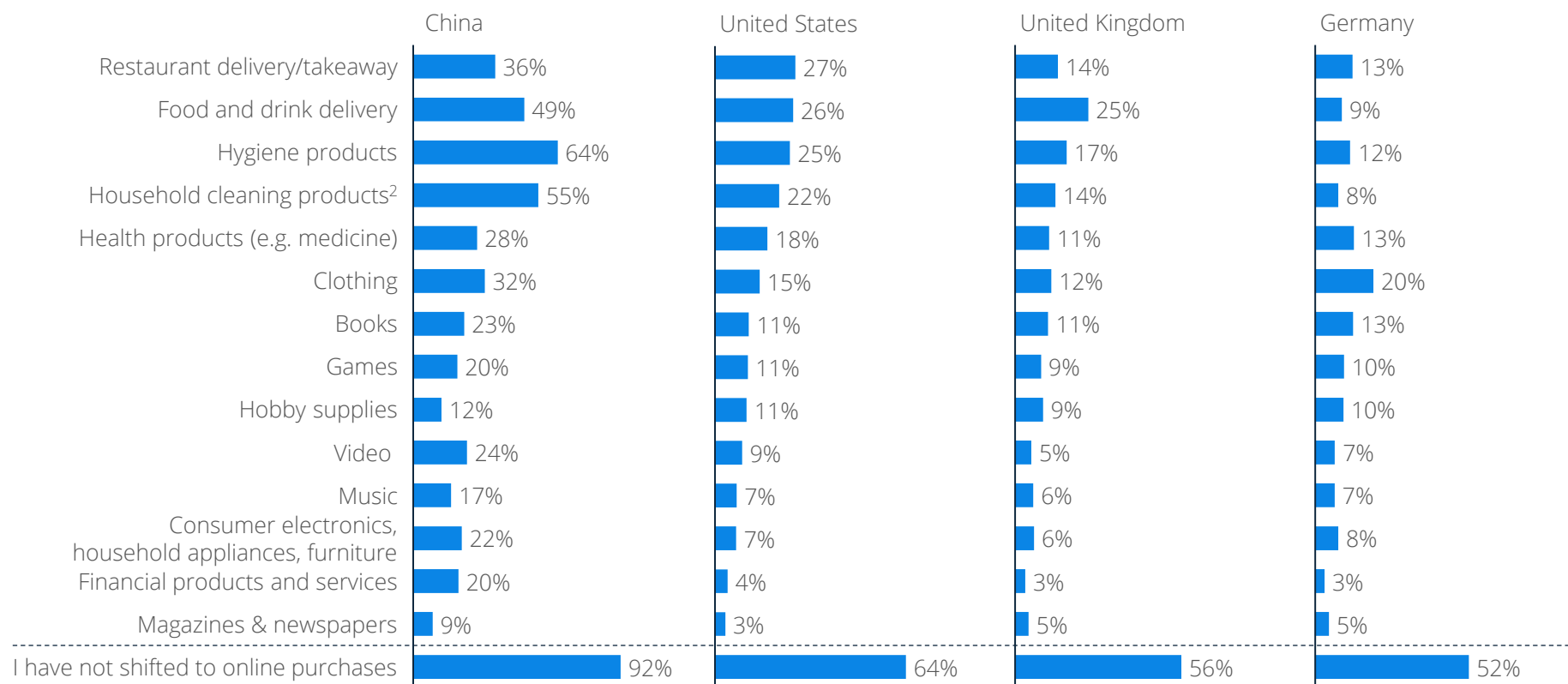


Group revenue of Westwing in million €



Shopping behavior has shifted from offline to online purchases in all major eCommerce segments

Online purchases replacing offline purchases related to the COVID-19 pandemic¹



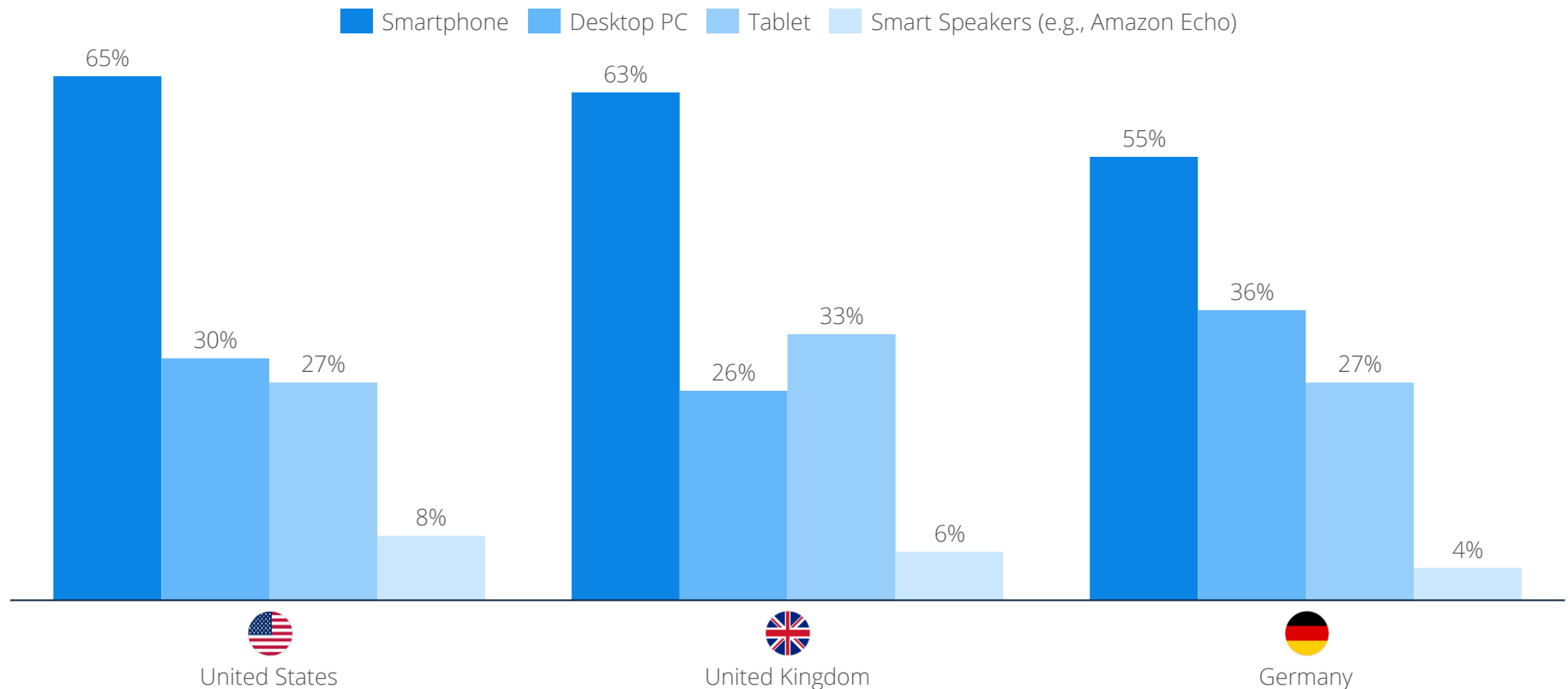
1: Survey period March 23, 2020-May 10, 2020; "Have you deliberately purchased any of these products or services online instead of offline because of the COVID-19/Corona pandemic?"; Multi-pick; Base: n=19,259; all respondents 2: e.g., hand sanitizer, toilet paper

Note: More information in the [Statista Global Consumer Survey](#)

Sources: Statista Survey "COVID-19 Barometer 2020"

The U.S. and the UK have the highest mobile shopping rates - voice shopping is still at a low level

Devices used for online shopping in 2020



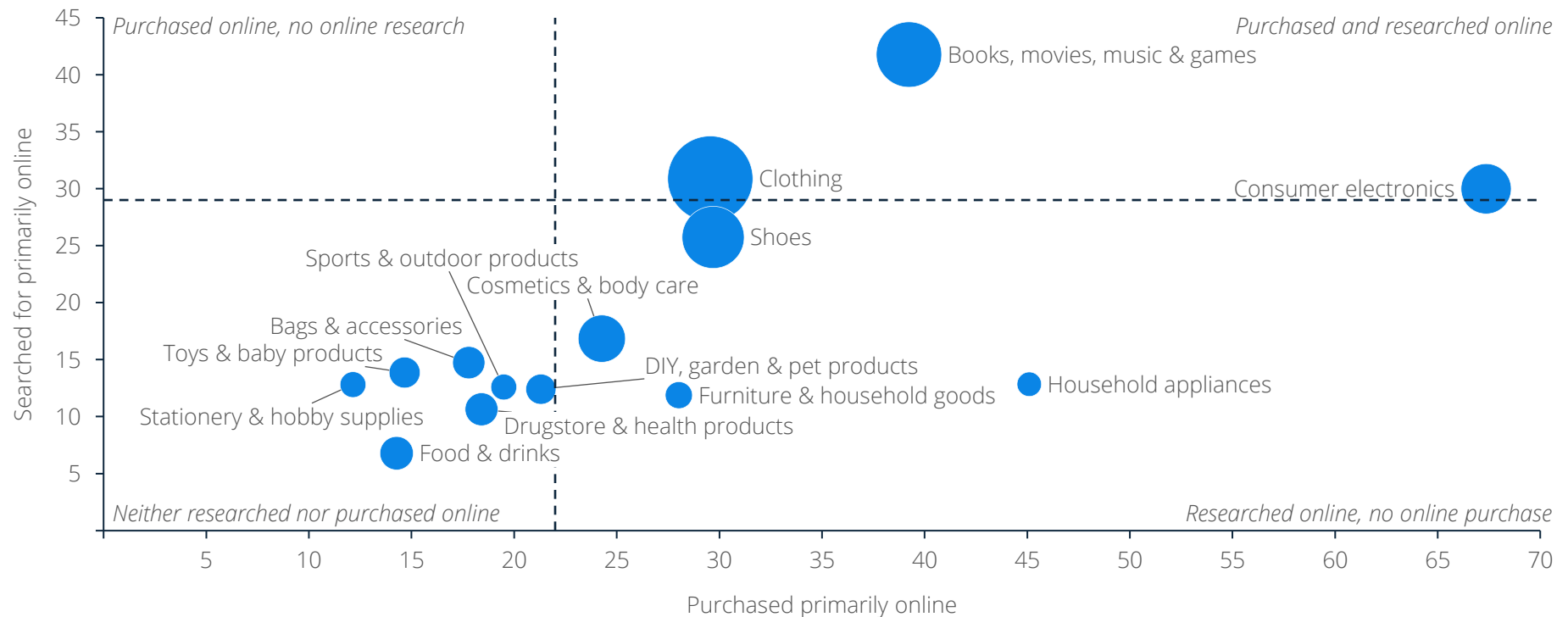
"Which of the following devices have you used for online shopping in the past 12 months?"; Multi pick; U.S.: n=4,185; UK: n=2,088; Germany: n=2,081

Sources: [Statista Global Consumer Survey](#), as of October 2020

Books, movies, music & games, and consumer electronics are mainly searched for and bought online

Share of U.S. consumers who primarily search for and purchase a product online in %

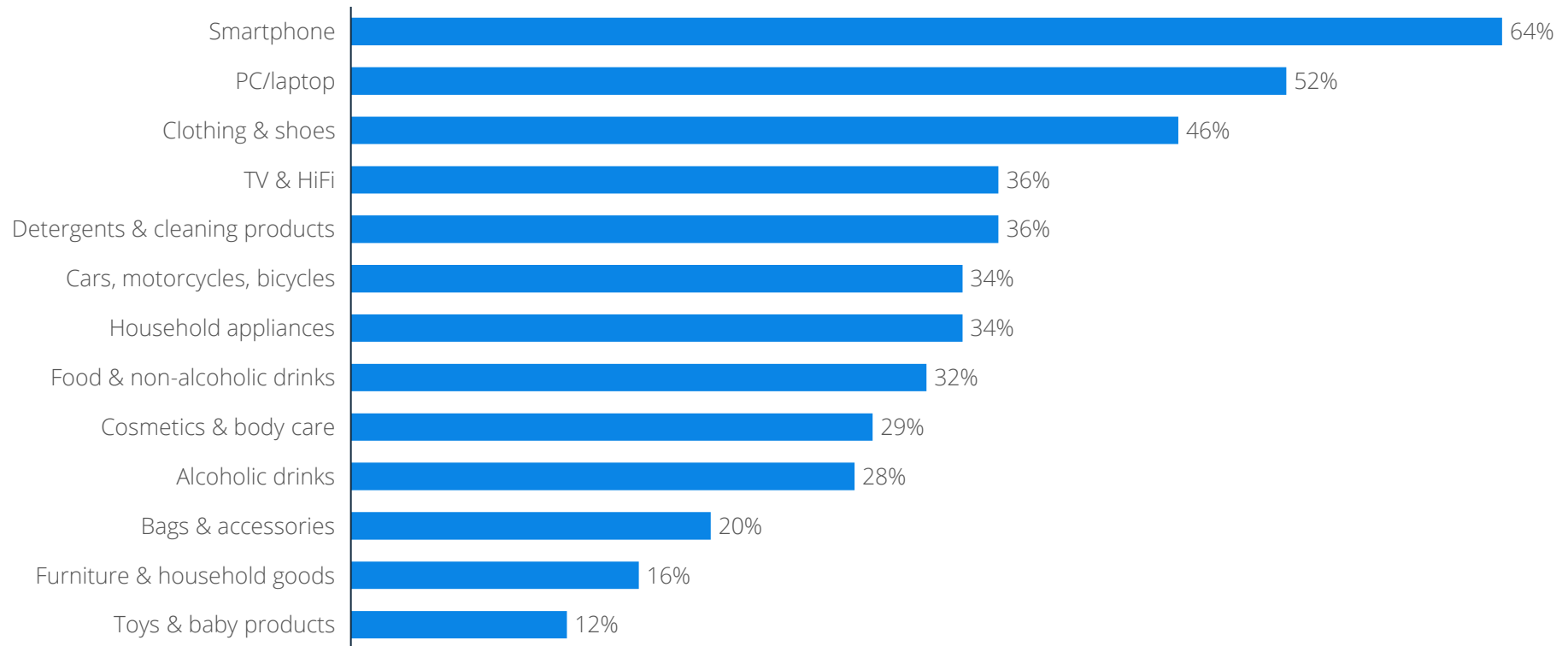
● Share of U.S. consumers who have ordered items from these categories online in the past 12 months



"For which of these products do you mostly look for information online?"; Multi pick; "Which of these products do you mostly buy/order online?"; Multi pick; "Which of these items have you bought online in the past 12 months?"; Multi pick; U.S.: n=4,120
Sources: [Statista Global Consumer Survey](#), as of October 2019

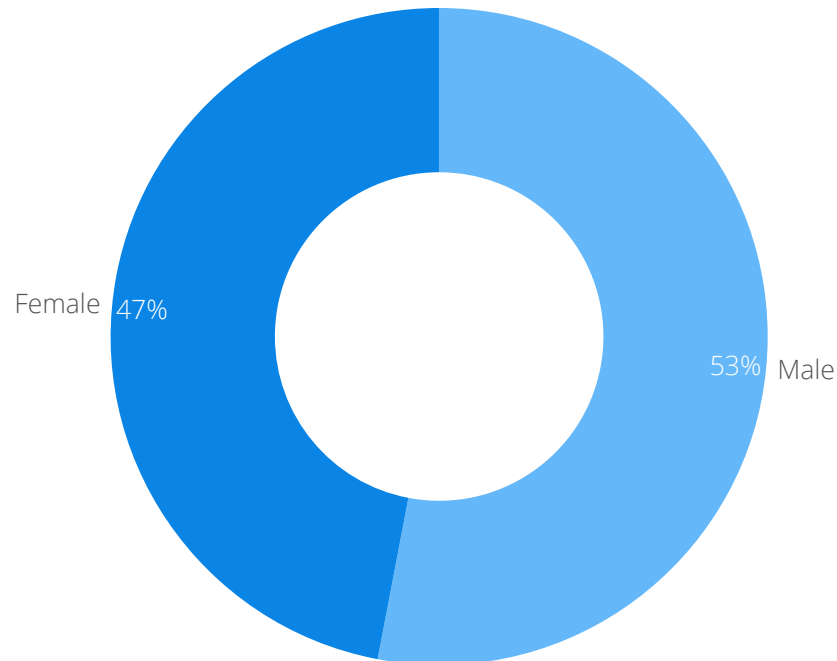
To U.S. consumers, brands matter most when it comes to smartphones

Brand awareness in the U.S. in 2020

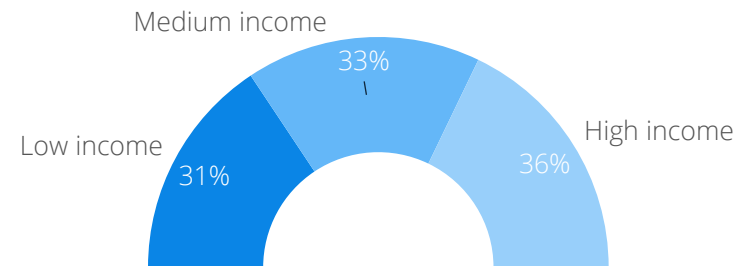


36% of Chinese online shoppers belong to the higher-income demographic group

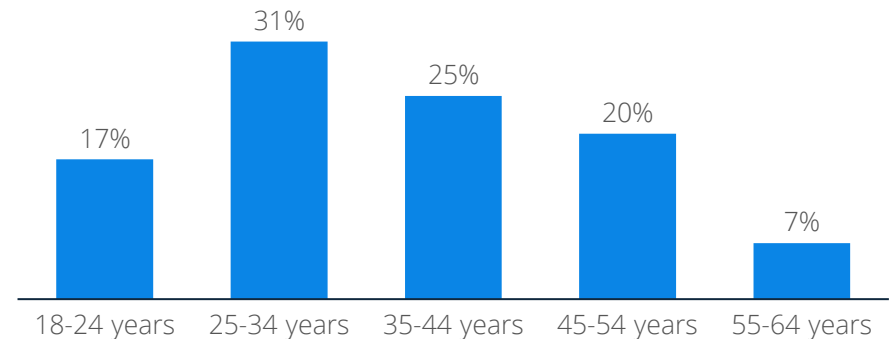
Gender



Income



Age



Digital Media

The emergence of MP3 players and online file-sharing services such as Napster has not only caused a big disruption of the music industry's entire business concept, but it has also fundamentally changed the way in which music is sold, distributed, and consumed nowadays. While Napster is just an exemplary starting point for the music industry's transition, developments such as eReaders, smartphones, and tablets are additional symbols of the digital revolution of traditional media.

The Digital Media market in the Statista Digital Market Outlook is divided into Video Games, Video-on-Demand, ePublishing, and Digital Music.

The global Digital Media market reached US\$200 billion in 2020. Video Games are by far the biggest market in 2020 with a global revenue of US\$93 billion, which represents a share of 46% of the overall Digital Media market. The Video Games market highly benefits from a shift from desktop computers to mobile devices: Every third US\$ in Digital Media is

generated by mobile games.

Video-on-Demand is the second biggest digital market with a global revenue of US\$61 billion in 2020. The continuing popularity of subscription-based services will lead to steady growth up to 2025, whereas the growth of Pay-per-View and video download services will decrease significantly in the next couple of years.

The next segment in terms of revenue is ePublishing, which is expected to grow to US\$35 billion by 2025. This growth is mainly driven by emerging markets, such as China, where eBook prices are substantially lower.

Digital Music is the smallest segment in 2020 with a revenue of US\$18 billion. The market is dominated by Music Streaming offerings. This is so because Music Downloads are one of the very few shrinking segments in the digital economy.

The media business had to endure difficult times when illegal distribution and downloads of digital content became common among users. This development particularly threatened the music and video business, causing sales to decline. Faced with changing customer behavior and demands, companies had to find new ways of monetizing their content.

Customer requirements have become clear over time: easy access to a wide range of media content at any time, in any place, and at a good price. These needs triggered the birth of online streaming and lending, a trend which can especially be observed in the rising popularity of music and video streaming as well as mobile gaming. Companies such as Amazon, Apple, Netflix, or Spotify have successfully responded to these needs and provide huge content libraries and convenient purchasing models for their customers.

Competition remains fierce in the Digital Media market and companies have to constantly reassess their business strategy in order to be ahead of their competitors. Netflix and Amazon, for example, have been increasingly investing in the production of their own exclusive content to minimize dependency on production companies and to have a unique

competitive advantage. This strategy seems to pay off: Although Netflix has recently increased prices again, it announced another big boost in streaming subscribers at the beginning of 2020. In the gaming business, big companies such as Nintendo participate in the huge, fast-growing field of mobile games by releasing their own games on third-party platforms and by cooperating with franchise partners.

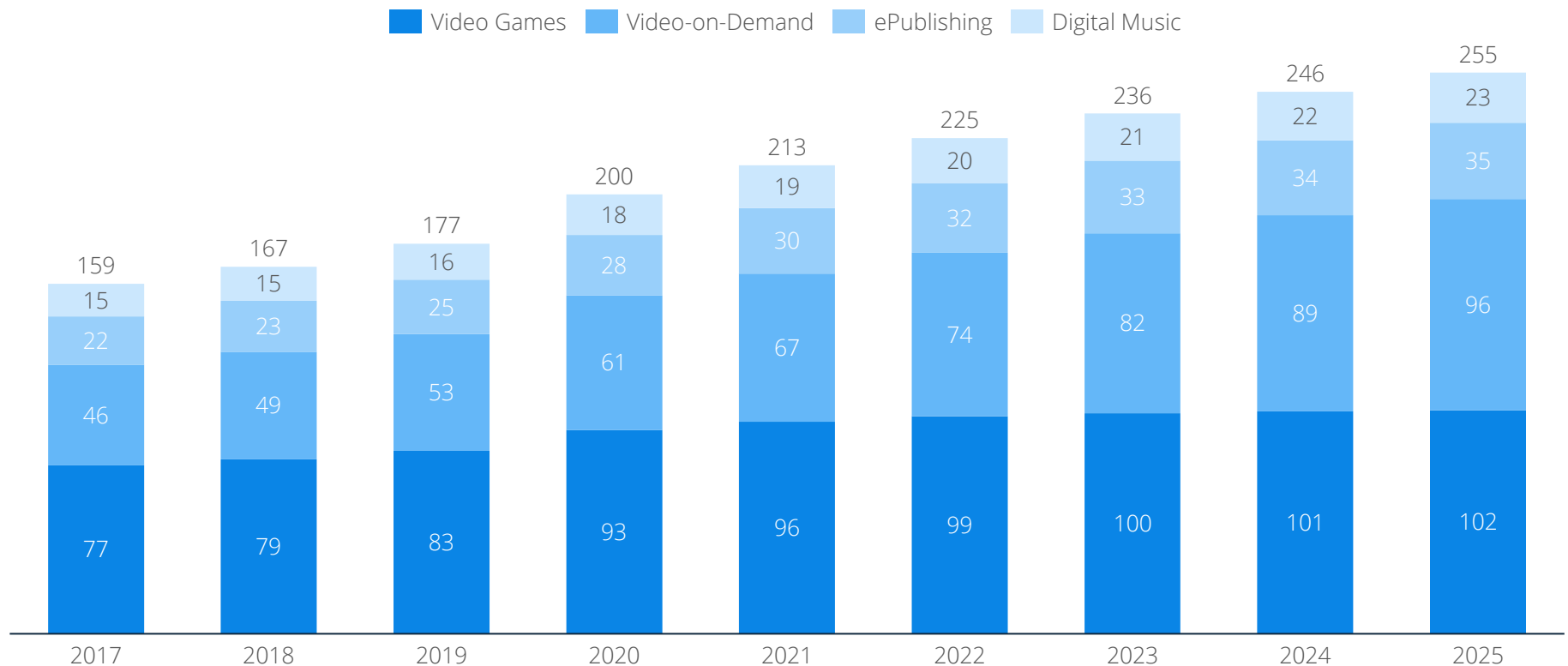
Another trend is live content: Periscope, Facebook Live, Instagram Live, live.ly, Snapchat Live Stories, YouTube Live, Alibaba Tmall, Sina Weibo Miaopai, Yizhibo, TikTok — nearly every social media network offers the possibility to stream live videos in real time. Apart from the benefit for users to share moments with friends and family, live streaming opens up new commercial scenarios for manufacturers to advertise their products.



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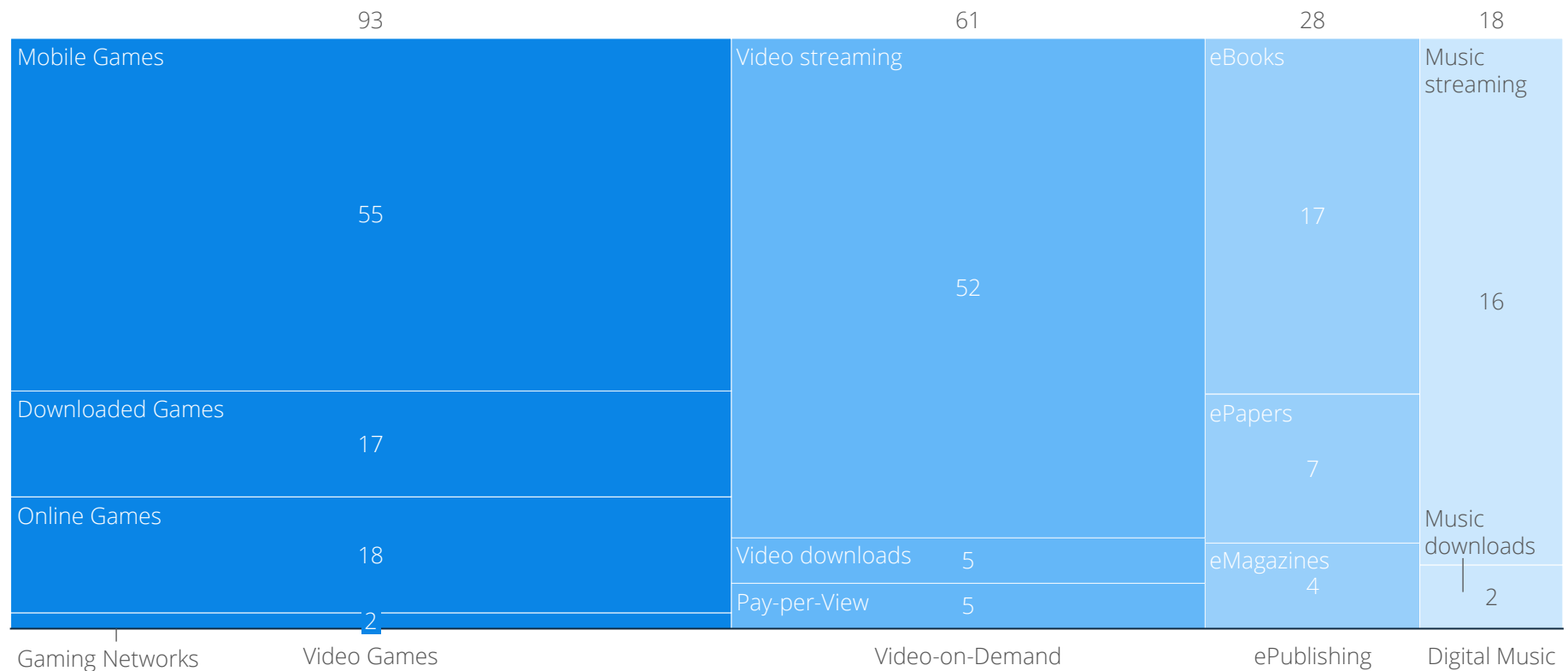
Digital Media market to reach US\$255 billion until 2025 with Video Games being the largest segment

Global Digital Media revenue forecast in billion US\$



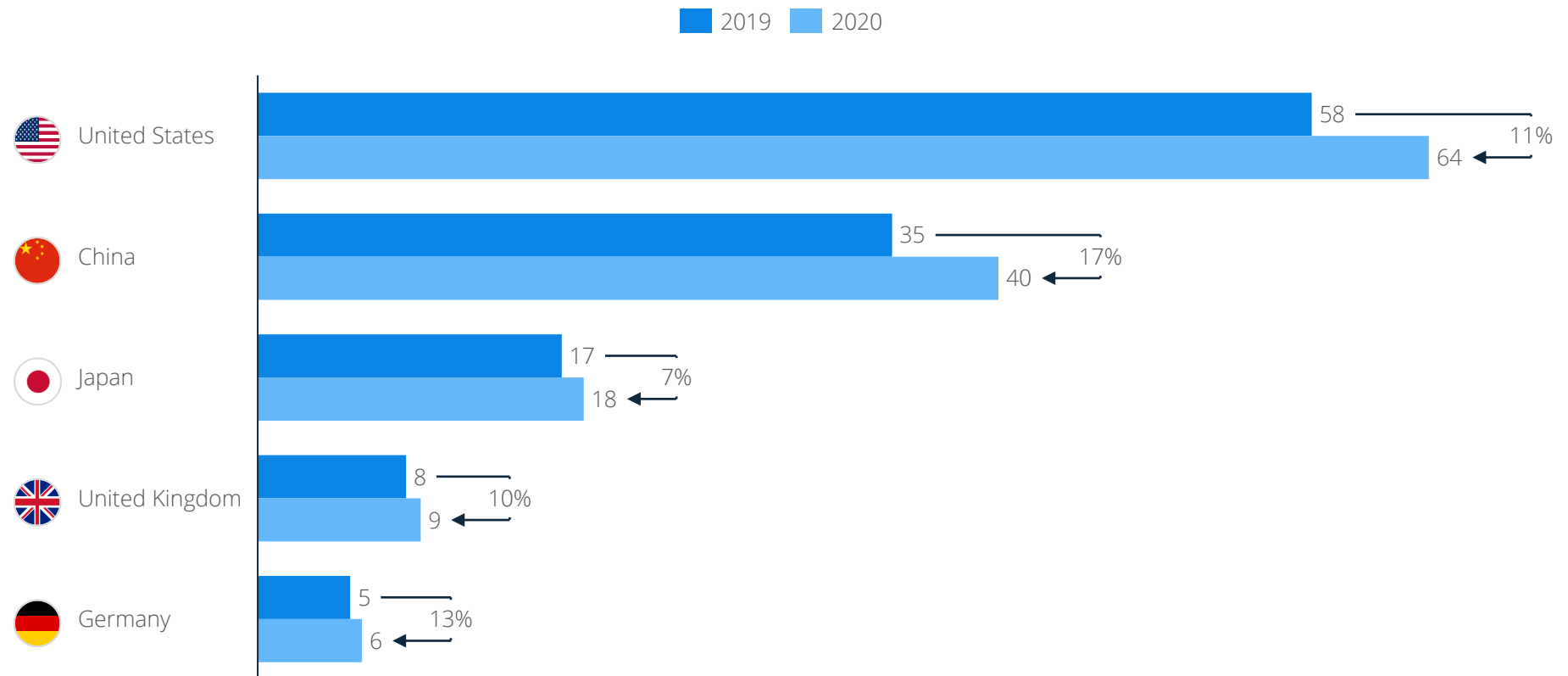
Video Games dominate the Digital Media market followed by Video-on-Demand

Global Digital Media revenue in billion US\$ in 2020



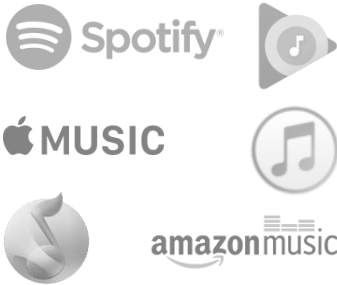
The biggest Digital Media market in 2020 is still the U.S. with revenues of US\$64bn

Top 5 Digital Media countries by market revenue in billion US\$



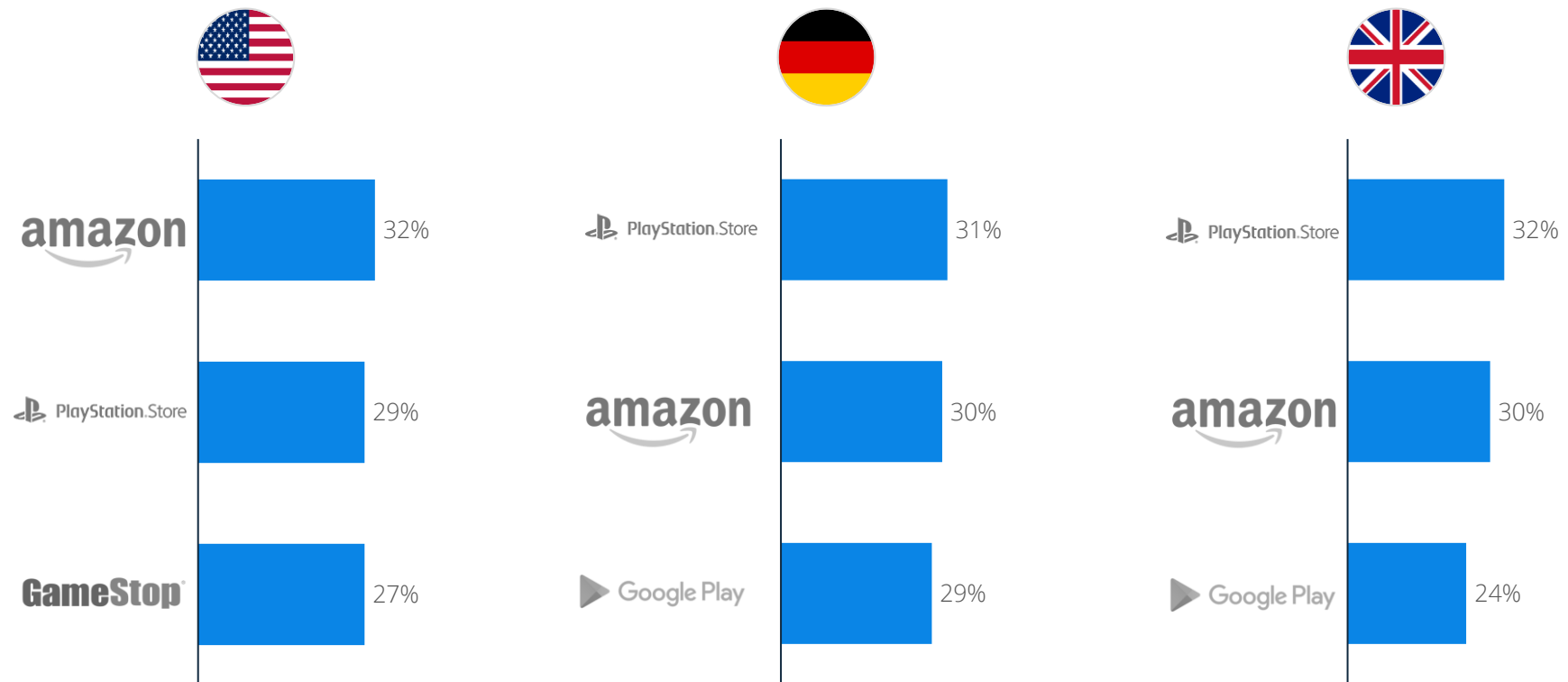
The Digital Media landscape is split into content specialists and those with a diversified portfolio

Selected key players in Digital Media

	Video Games	Video-on-Demand	ePublishing	Digital Music
Pure players				
Diversified players				

Amazon is the preferred online video games provider in the U.S.

Selected video game shop shares of video game purchases in 2020



"Where have you spent money on online video games in the past 12 months (downloads, in-app purchases, subscriptions)?"; Multi Pick; U.S.: n=25,131; Germany: n=12,539; UK: n=12,588 respondents who play video games regularly and spent money on downloads, in-app purchases and subscriptions in the past 12 months
Sources: [Statista Global Consumer Survey](#), as of September 2020

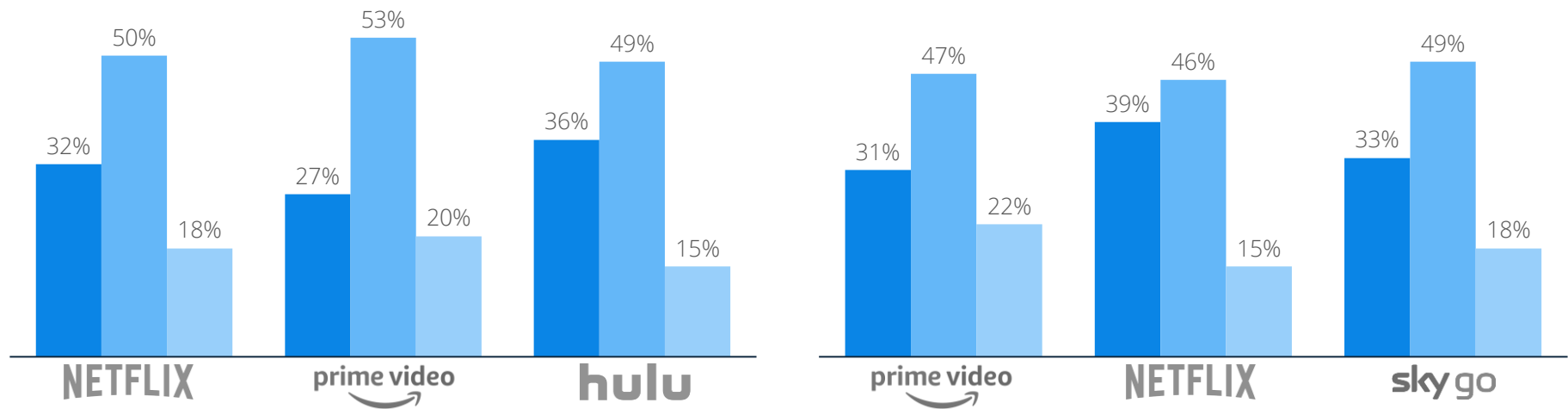
All video-on-demand services still lack customers over 49, whereas they are popular among younger people

Share of onlineers who purchased video-on-demand services of selected providers in 2020

■ 18-29 years ■ 30-49 years ■ 50-64 years

United States 🇺🇸

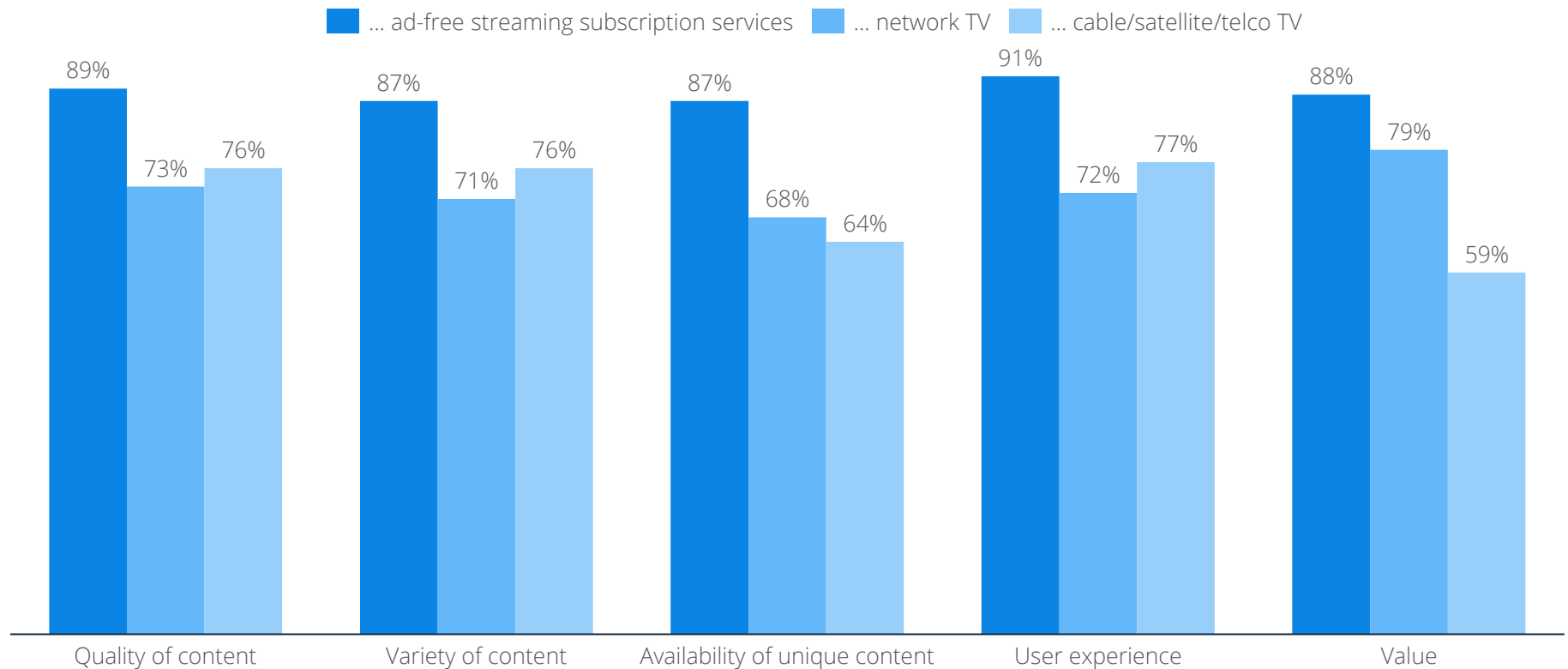
Germany 🇩🇪



"Which of these video on demand providers have you used in the past 12 months as a paying customer?"; Multi Pick; U.S.: n=25,131; Germany: n=12,539 respondents who spent money on digital video content in the past 12 months
Sources: [Statista Global Consumer Survey](#) as of September 2020

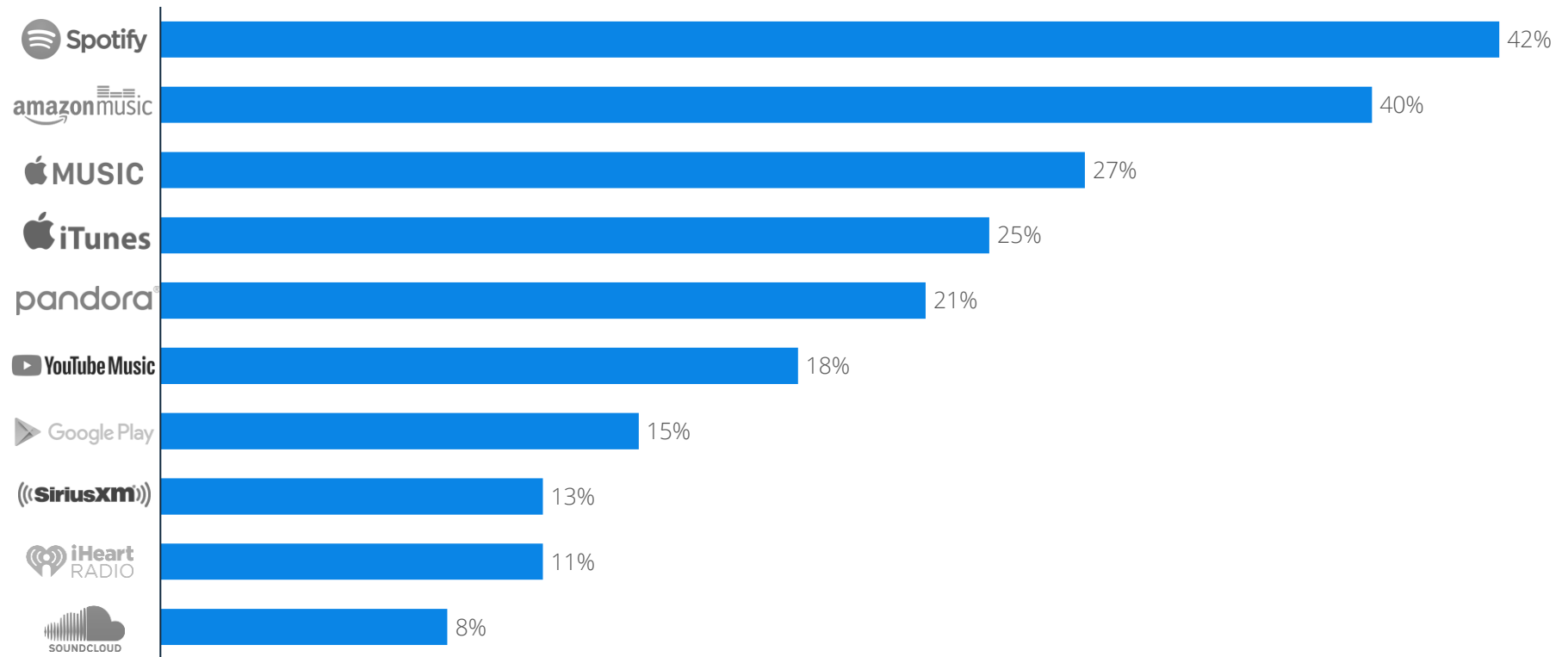
Streaming services beat (paid) TV in customer satisfaction

Share of viewers who rate the service as excellent/good in terms of ...¹



Spotify leads the list of Digital Music services in the U.S. followed by Amazon and Apple Music

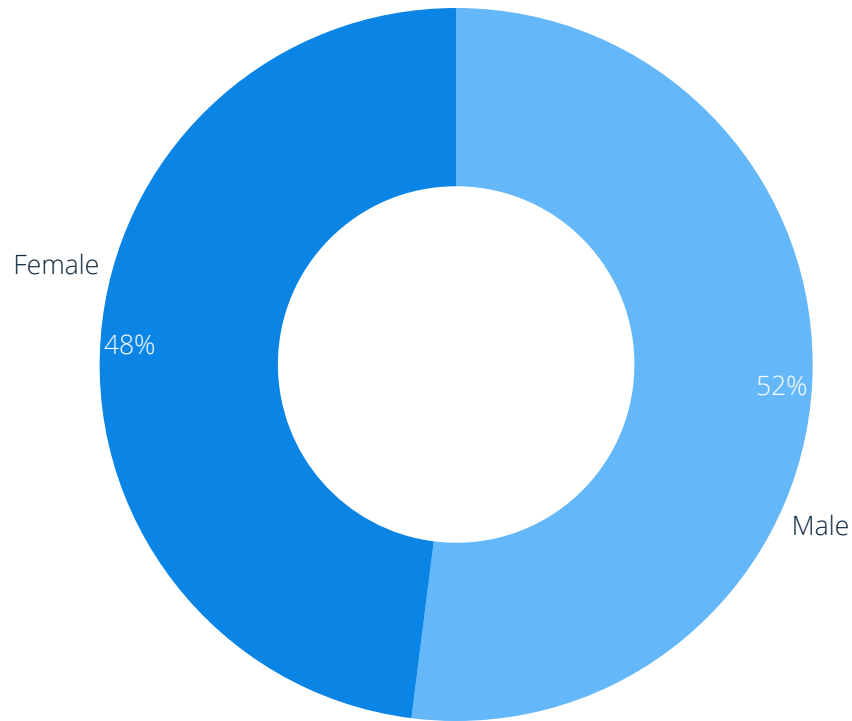
Share of U.S. respondents who use digital music services of selected providers in 2020



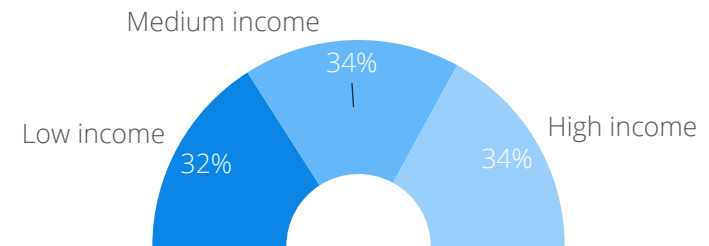
"Which of these providers have you bought music downloads or streaming services from in the past 12 months?"; Multi Pick; U.S.: n=1,930 respondents who spent money on digital music content in the past 12 months
Sources: [Statista Global Consumer Survey](#), as of October 2020

In Spotify's home country, Sweden, 27% of 25-to-34 year olds spend money on digital music

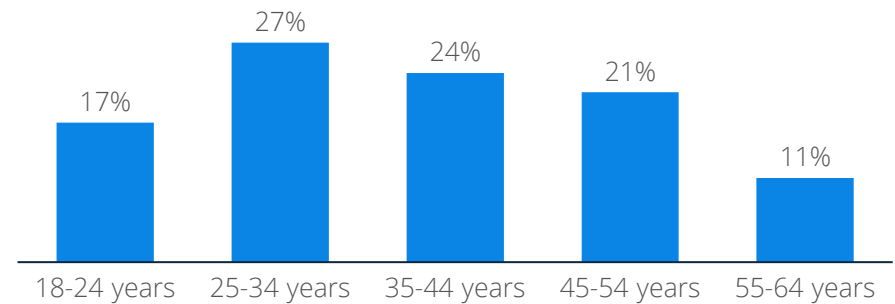
Gender



Income



Age



Digital Advertising

Global spending on Digital Advertising outpaced TV ad spending for the first time in 2017. Considering how great a role television used to play for generations of media consumers, this is quite a revolutionary development. And it shows how important Digital Advertising has become.

In the Statista Digital Market Outlook the segment Digital Advertising is categorized according to the environment where ads are played. Search Advertising, Social Media Advertising, and Online Classifieds are categorized with in-page ads as Banner Ads, and in-stream ads – be it videos or text overlays – are part of Video Advertising.

The global Digital Advertising market reached US\$129 billion in 2020. The dominating segment is Search Advertising with a global market volume of US\$159 billion in 2020, making up a market share of 45%. Having keywords as its underlying basis, Search Advertising enables marketers to reach a relevant target group in a very simple and precise

way. These keywords can be complemented with a range of options, such as location-based factors, website and audience types, or remarketing based on user behavior.

Social networks usually work with newsfeeds, where user-specific content and shared information are shown. This presents an ideal advertising environment that offers numerous opportunities for personalized user targeting. But it also makes advertisers vulnerable to changes in algorithms, as can now be seen in Facebook's shrinking traffic after its recent update. The global Social Media Advertising market size is about US\$99 billion in 2020.

Although we can observe an advancement in the field of targeting solutions, Banner and Video Advertising still face the challenge of reaching the right audiences. They have a much more random advertising environment than social networks and search engines.

This difficulty is reflected in the market size of both Banner and Video Advertising: With a volume of US\$53 billion, Banner Advertising has a share of only 15% of the total Digital Advertising market. As video players have much more limited advertising space than banners, Video Advertising has an even smaller share of 8%, corresponding to a market volume of US\$27 billion. Nevertheless, we believe that the development of targeting solutions is still at an early stage. Once it is in full swing, it will have noticeable effects on the advertising market.

Furthermore, in the field of Banner Advertising, we observe the positive impact of native ads matching the environment in which they appear in terms of form and function. In other words, these native ads appear as paragraphs within articles in a form and style which is like the content provided by the actual platform's editorial staff. This format works very well on smaller displays and is ideal for advertisements on mobile devices. The proximity to editorial contributions increases consumer engagement and ad acceptance.

Online Classifieds make the smallest contribution to overall market revenues with US\$19 billion in 2020. Their revenues are more or less

equally distributed across categories such as automotive, jobs, and real estate.

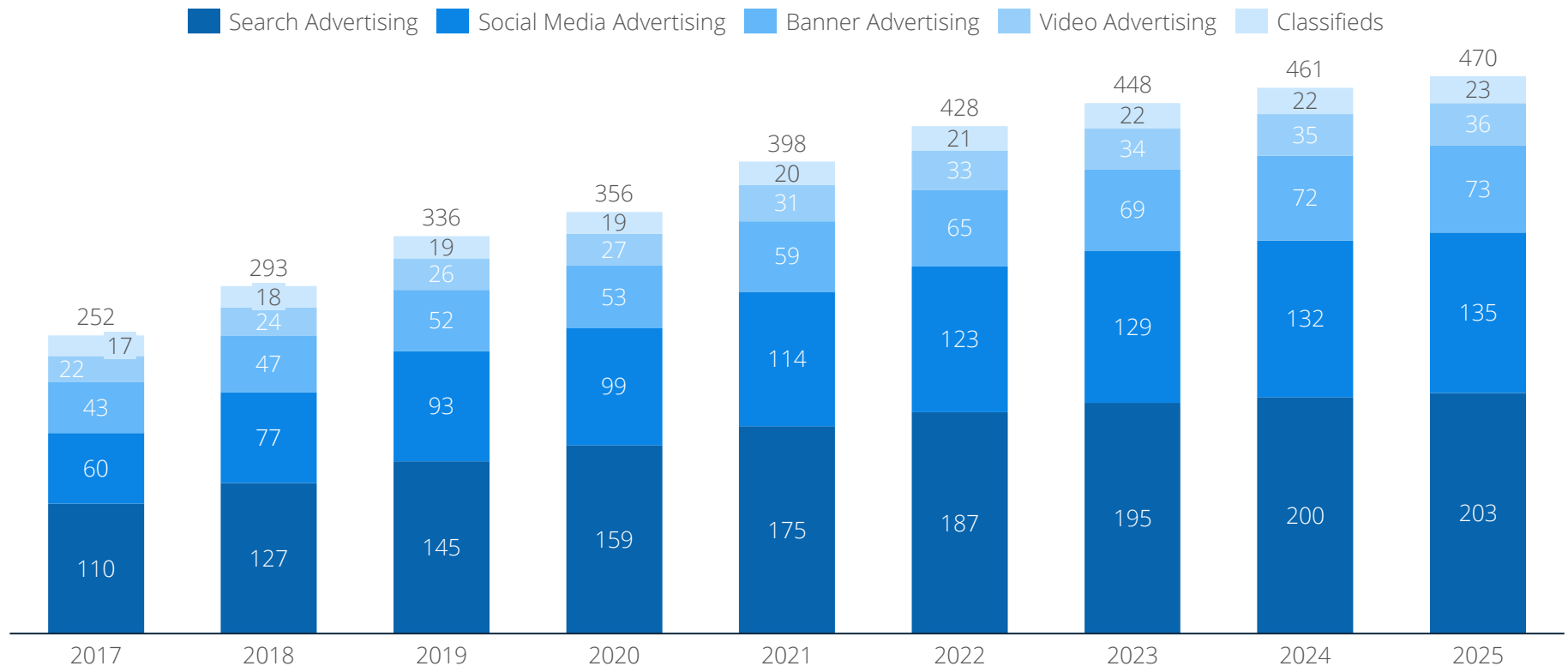
One major trend that has been discussed lately is programmatic advertising including (re-) targeting and real-time bidding. We believe that although this development is still at its beginning, it will also have a big impact. Programmatic advertising describes the software-based buying of advertising space based on audience data to target certain potential customers. The recipient of the ad is known before the ad is sold. Therefore, the ad can be even more personalized. This process takes place within a split second. We expect programmatic advertising and (re-) targeting to become increasingly precise, which will allow for increasing average revenue per user.



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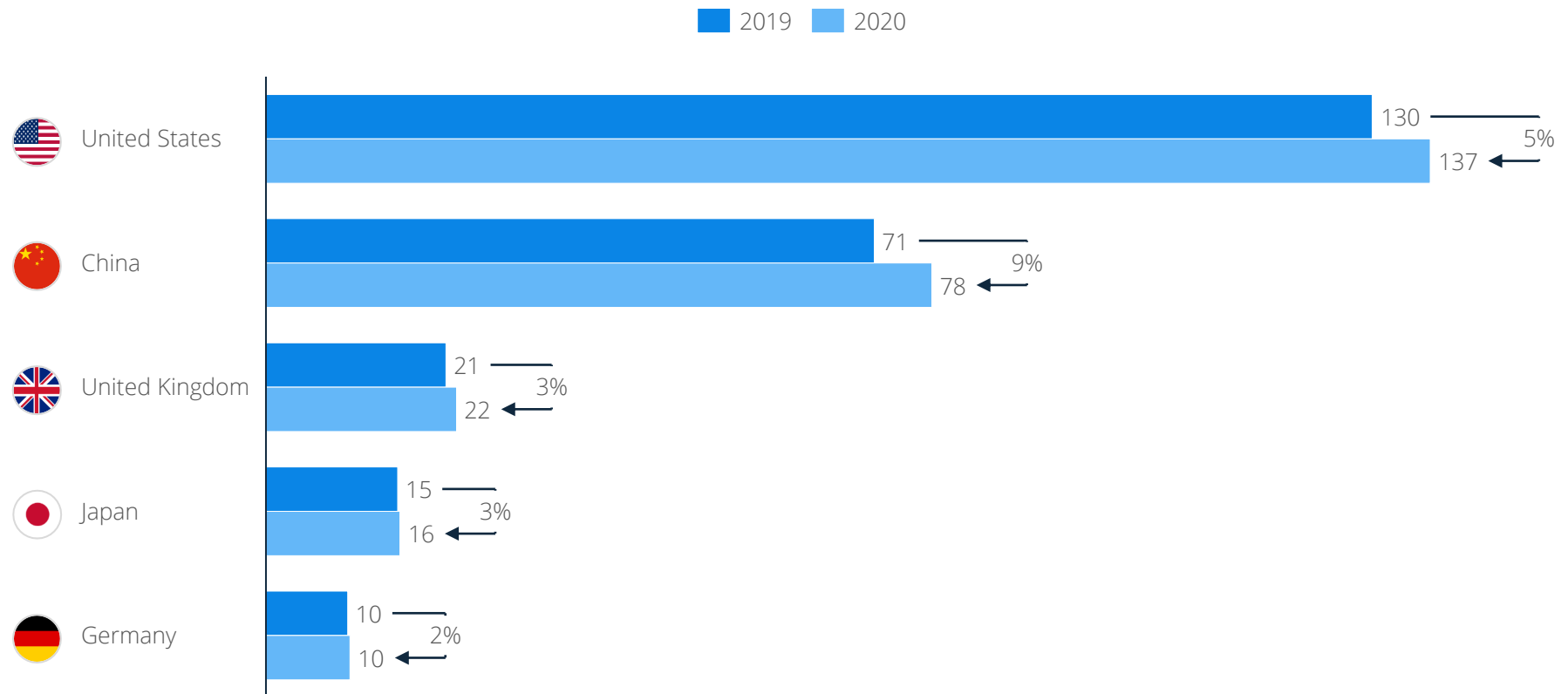
The Digital Advertising market is expected to reach US\$470 billion in revenues in 2025

Global Digital Advertising revenue forecast in billion US\$



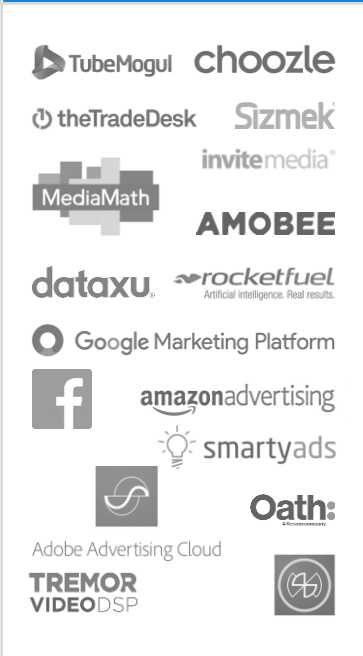
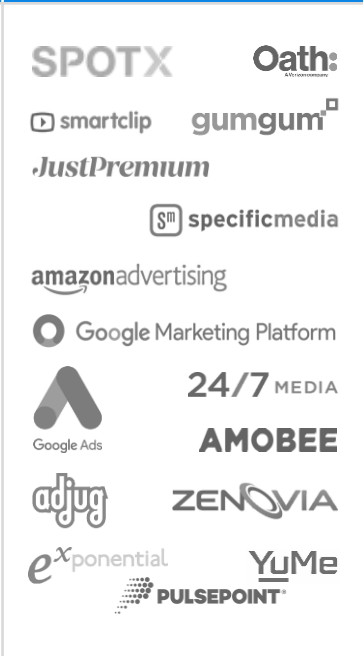
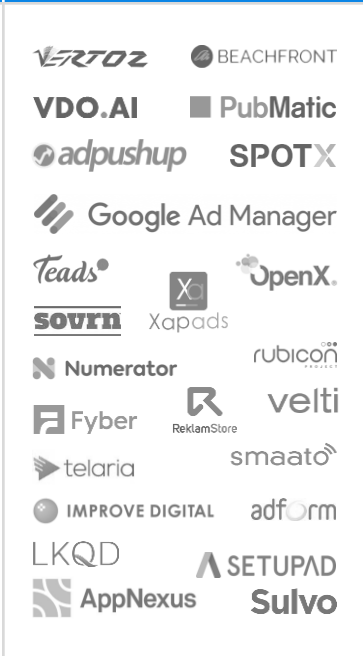
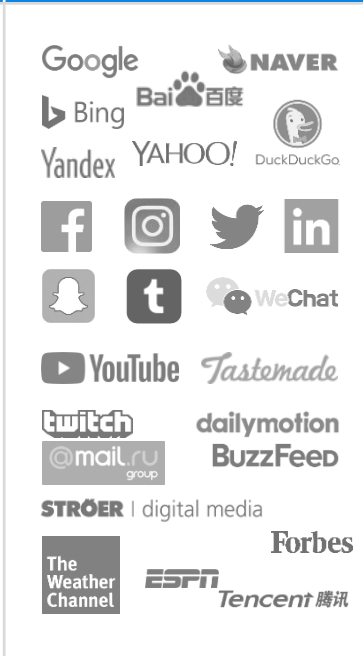
China's Digital Advertising revenues increased by almost 10% from 2019 to 2020

Top 5 Digital Advertising countries by market revenue in billion US\$



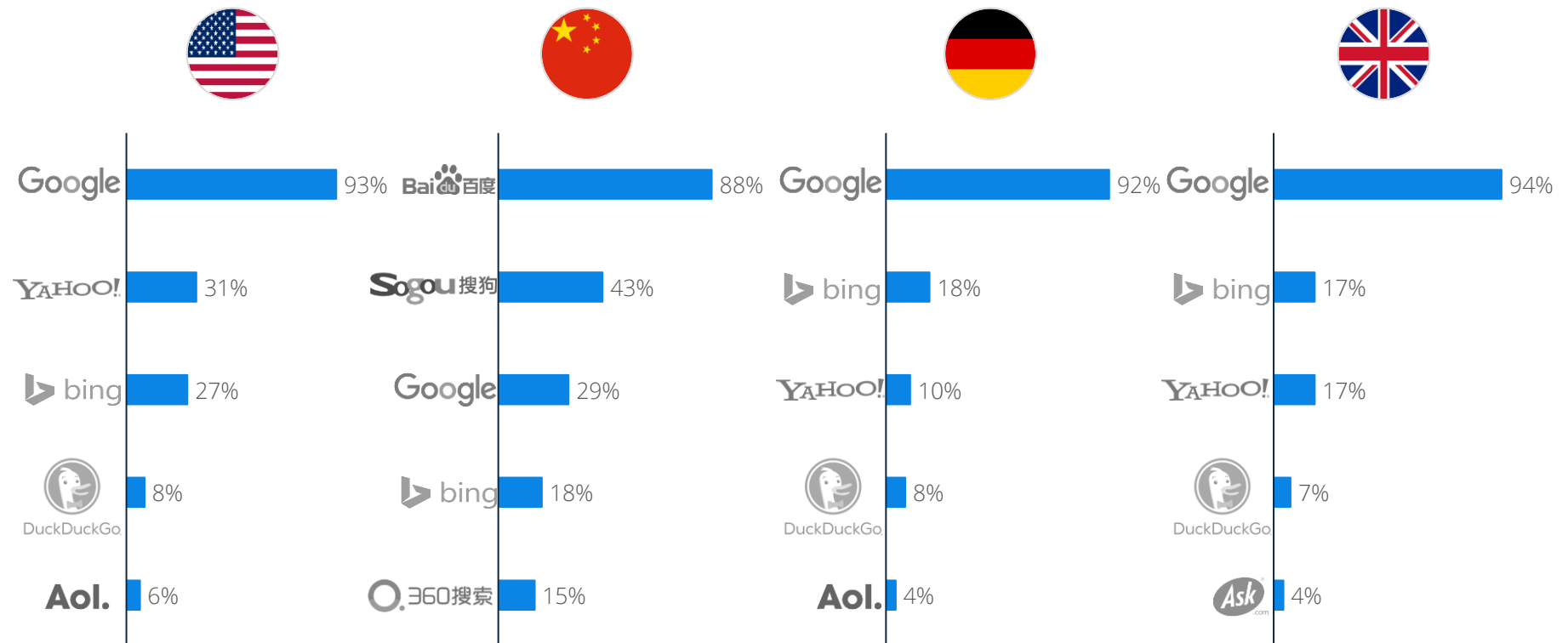
Digital Advertising is a complex business with many players

Selected key players in Digital Advertising

Agencies and trading desks	Demand-side platforms (DSPs)	Ad networks/exchanges	Supply side platforms (SSPs)	Publishers
				

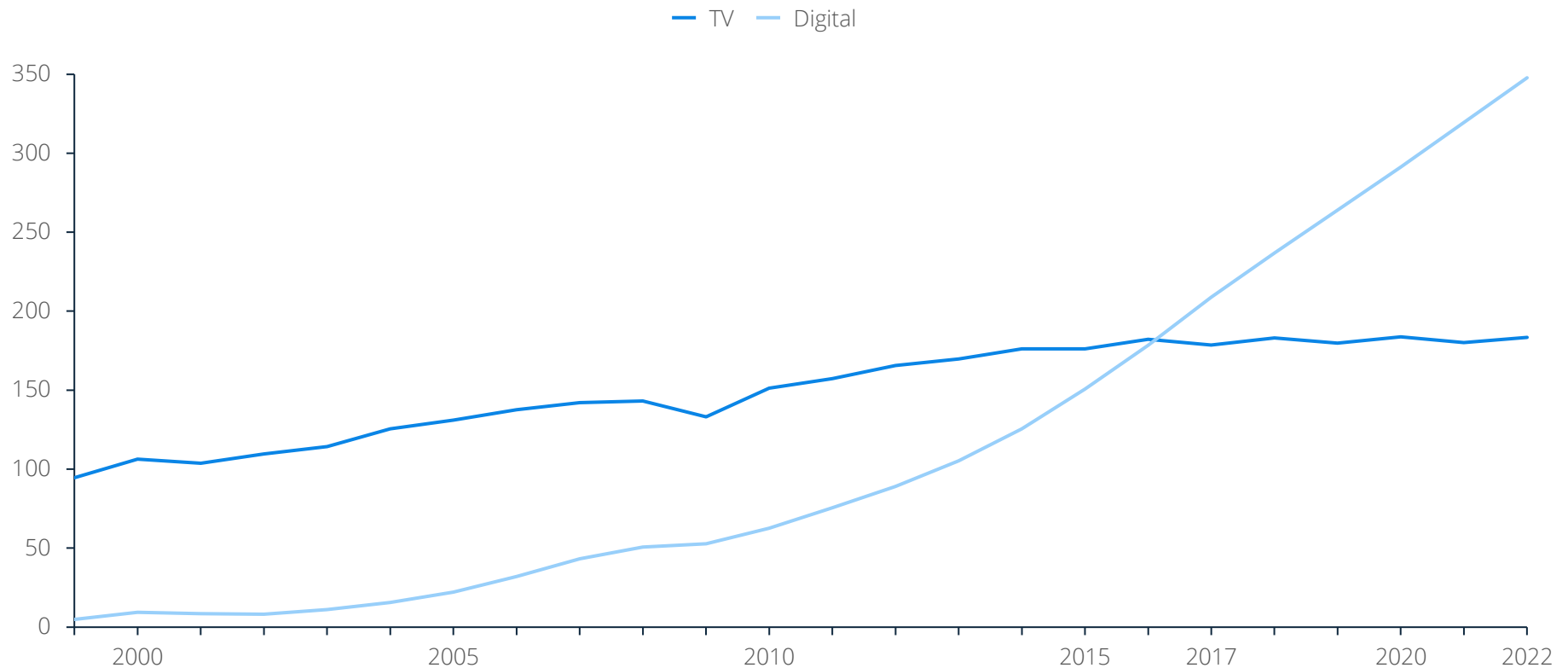
With the exception of China, Google is the most-used search engine in the U.S., Germany, and UK

Usage shares of selected search engines in 2020



Spending on Digital Advertising outpaced TV ad spending in 2017

Ad spending in billion US\$



Nearly 60% of respondents use an ad blocker to avoid annoying or intrusive advertising

Reasons for users to turn on their ad blockers and/or anti-tracking software in 2019



FinTech

FinTech, a combination of financial services and technology, has been rapidly evolving in the last decade and has already reinvented the financial services landscape, that is to say: the way people spend, invest, and lend money. With more than 40% of the global adult population using the internet to pay bills or shop online, FinTech is not an emerging market anymore but an established industry with enormous potential yet to be unlocked.

The most important driving forces for the adoption of any FinTech innovation are minimal entrance barriers for both consumers and providers, comprehensive information, intuitive end-user handling, and favorable regulation and legislation.

The FinTech market in the Statista Digital Market Outlook focuses on the consumer-oriented FinTech space. It includes the segments Digital Payments, Personal Finance Services, such as Robo-Advisors and Digital

Remittances, Alternative Financing (financing platforms for crowdfunding and crowd investing), as well as Alternative Lending (Crowdlending and Marketplace Lending).

Digital Payments - by far the largest segment - has a global transaction value of US\$4.9 trillion in 2020 and is expected to reach US\$8.2 trillion by 2024. Although China and the U.S. clearly lead the market with transaction values of US\$3.3 trillion and US\$910 billion in 2020 respectively, Europe is struggling to catch up.

The payments landscape in Europe is evolving, but market dynamics and the penetration of digital payments are not comparable to China or the U.S. Different cultural mindsets and the overall state of the economy also play a significant role in the speed of innovation: While cash is still king in Germany, mobile payments in China (e.g. Alipay and WeChatPay) have already all but replaced cash.

Personal Finance is currently the second biggest FinTech segment and accounted for US\$907 billion in transaction value in 2019. Traditional banks' wealth management services often fail to keep up with middle-class consumers' expectations in terms of both performance and technological elegance. This has led to the emergence of a broad spectrum of digital investment services, Robo-Advisors, in North America and Europe. The current value of assets under management of these services globally is estimated at US\$827 billion for 2019.

Alternative Lending has not lived up to the industry's expectations and has suffered some reputational damage. Nevertheless, this segment still accounted for US\$291 billion in global transaction value in 2020. Borrowing money from an online community instead of turning to family or friends is an attractive option in growing economies, where traditional bank loans are less accessible. The alternative lending sector in China has grown exponentially in the past several years. But it also received scrutiny from Chinese authorities due to several major fraud incidents.

Alternative Financing is currently the smallest segment with a global transaction value of US\$6 billion in 2020. But it shows promising growth

as many entrepreneurs and small business owners are starting to recognize its benefits.

The most frequently used buzzword within FinTech is probably blockchain. It is a distributed ledger technology that records peer-to-peer transactions across decentralized computers without a central authority. Information is written in blocks that are visible to everyone. Blockchain grows with the number of transactions and information stored in it. Blockchain participants also referred to as miners provide computing power and receive an incentive for their work. The immense number of equivalent replications makes fraud almost impossible. Blockchain technology will gain importance and we expect it to shape the FinTech landscape in the future.

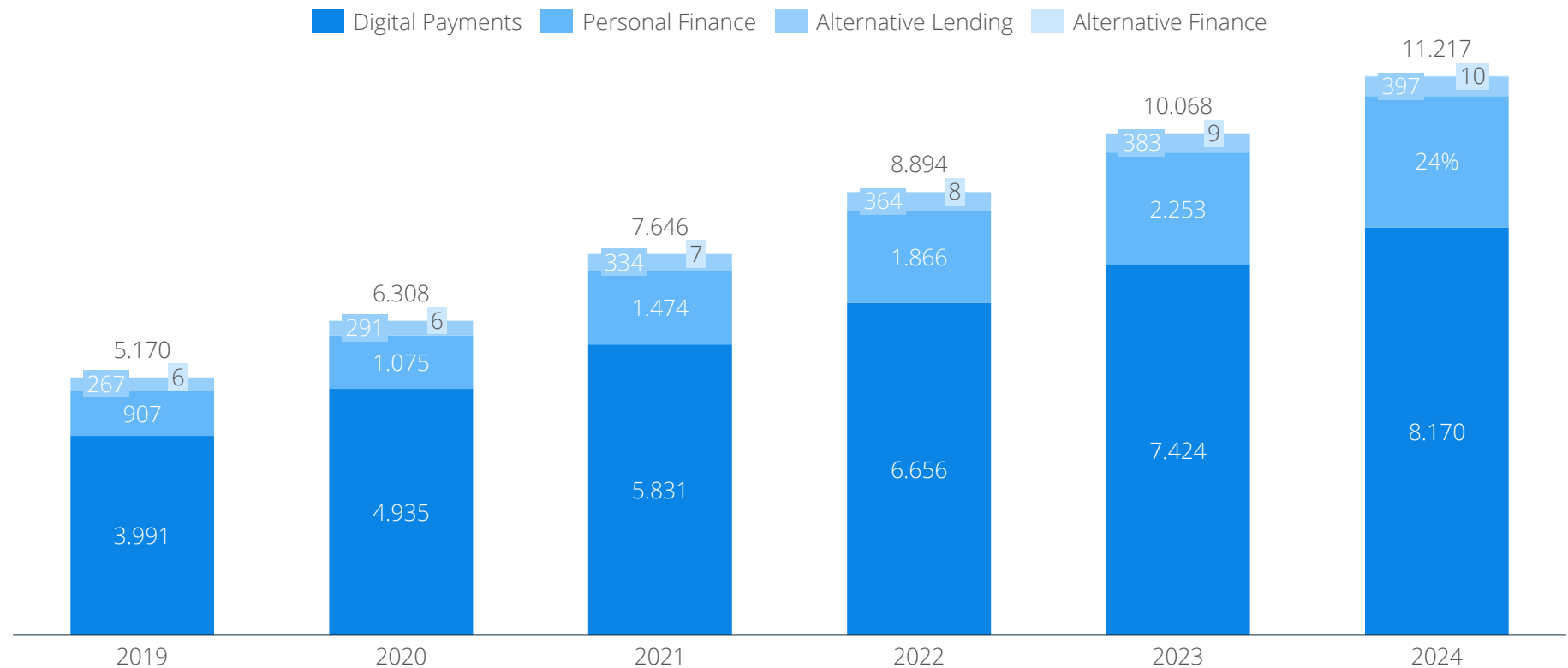


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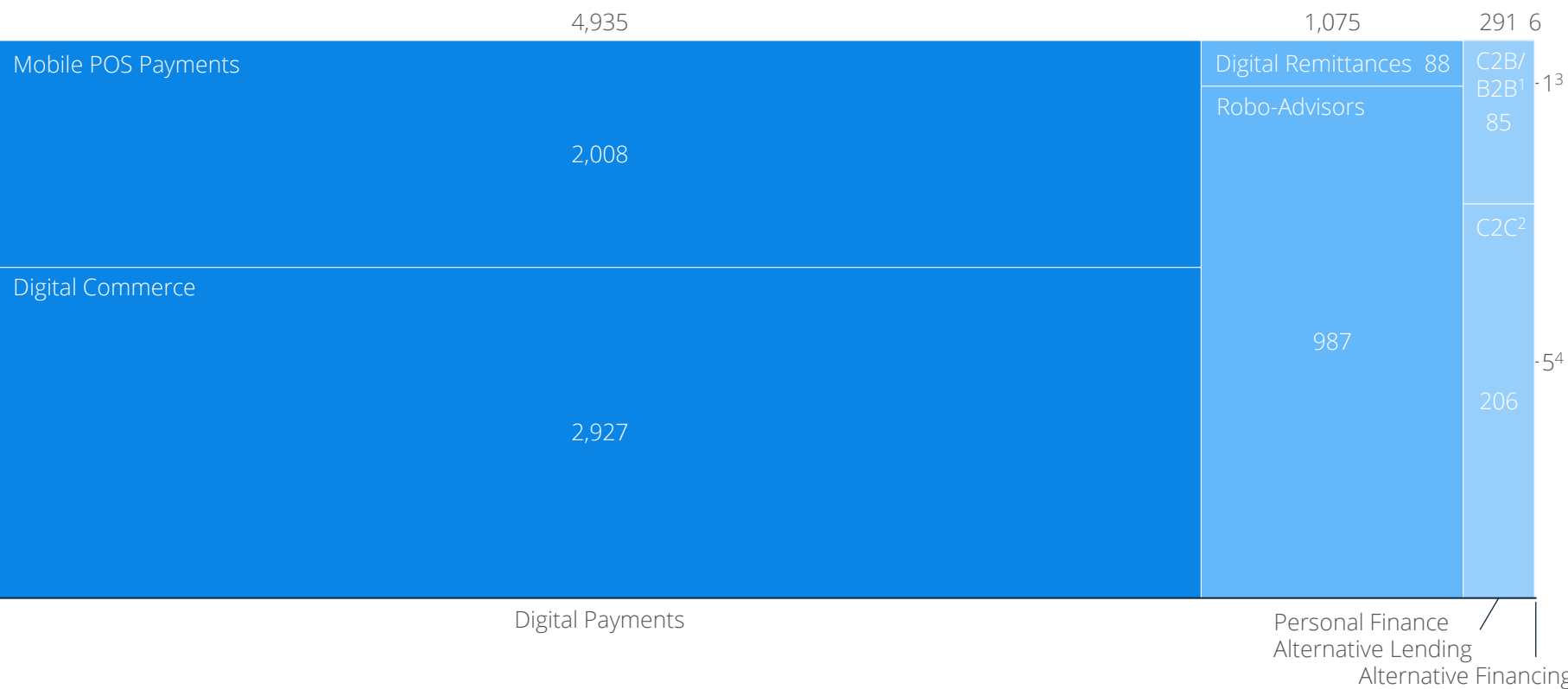
The FinTech market is expected to reach US\$11.2 trillion in transaction value in 2024

Global FinTech transaction value forecast in billion US\$



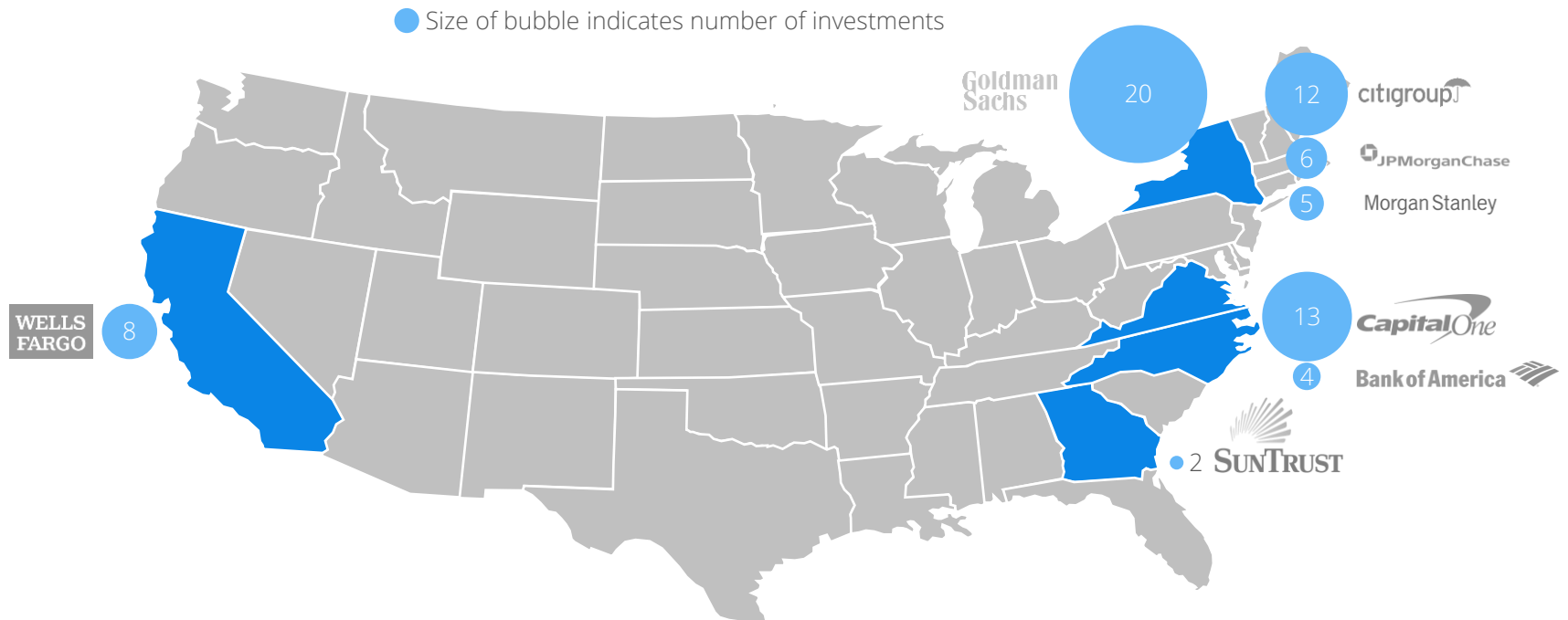
Digital Commerce is responsible for the biggest amount of transaction values in the Fintech market

Global FinTech transaction value in billion US\$ in 2020



Major U.S. banks adopt and invest in financial technology

Location and number of investments of selected U.S. banks involved in FinTech activities



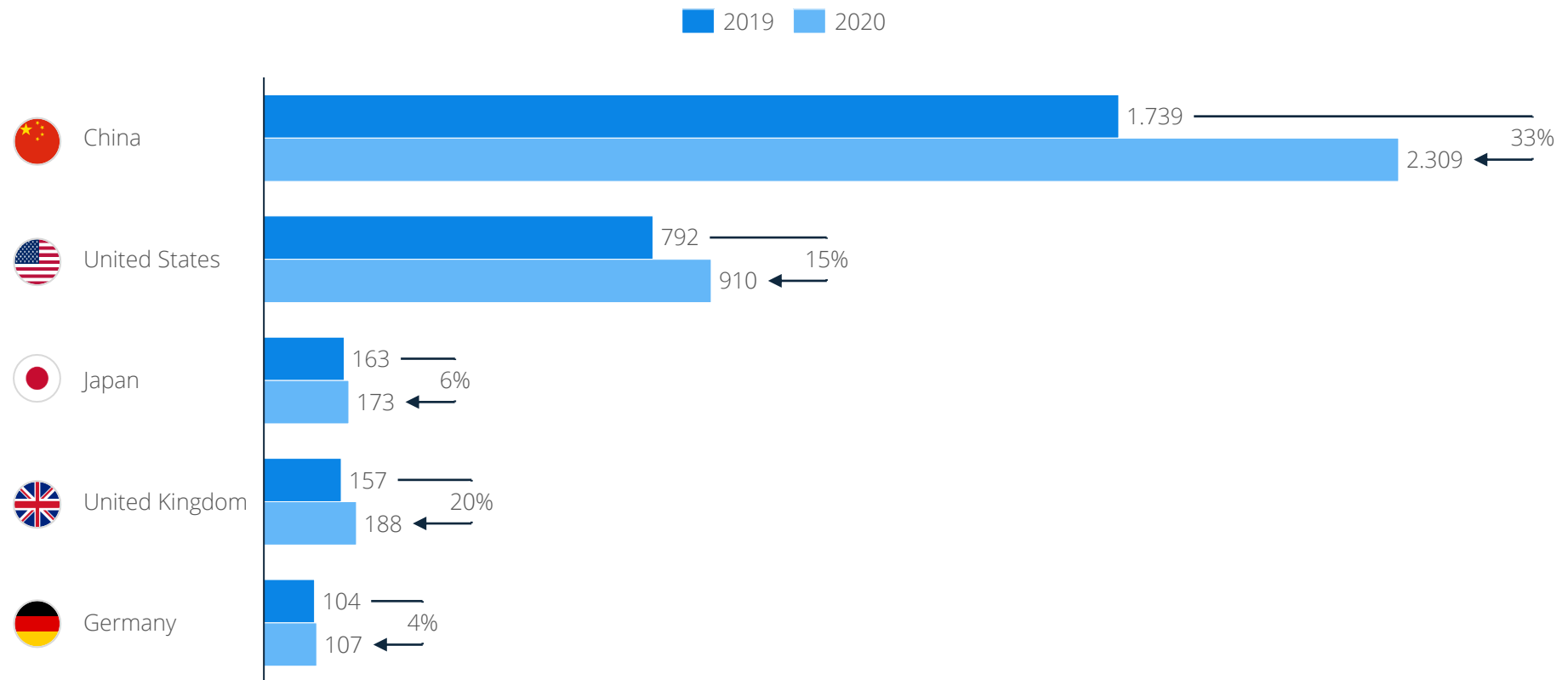
The FinTech landscape is highly competitive with several different business models

Selected key players in FinTech

Digital Payments	Personal Finance	Alternative Lending	Alternative Financing
Digital Commerce	Robo-Advisors	Crowdlending	Crowdfunding
     	     	      	      
Mobile POS Payments	P2P Money Transfers	P2P Marketplace Lending	Crowd Investing
         	      	        	       

Digital Payments in China grew by more than 30% from 2019 to 2020

Top 5 FinTech countries by Digital Payments transaction value in billion US\$

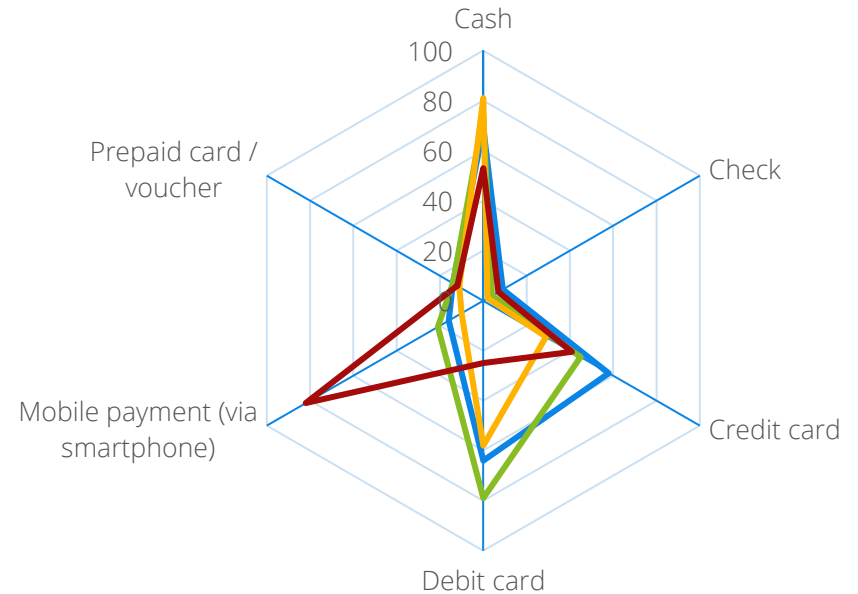
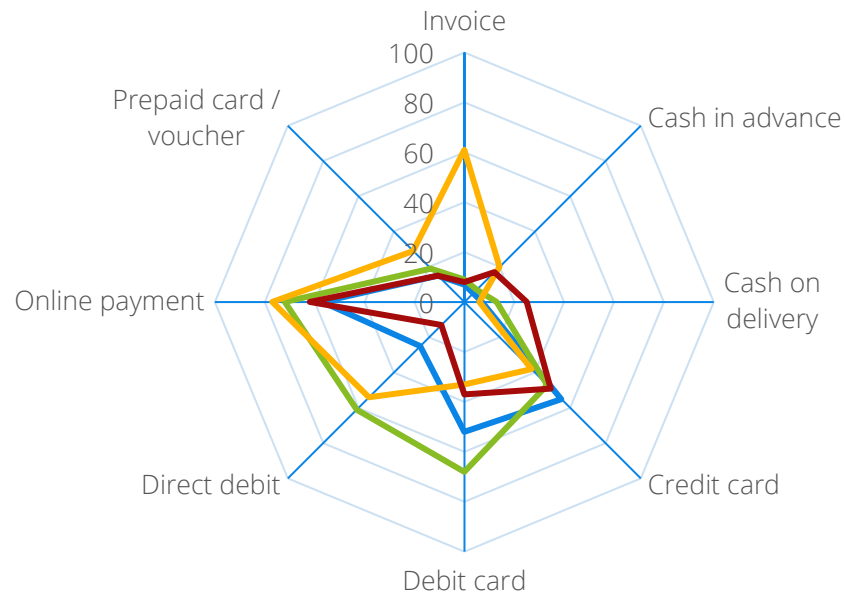


While the preferred online payment method is nearly the same, payment at POS differs greatly by country

Usage of payment methods online in % in 2020

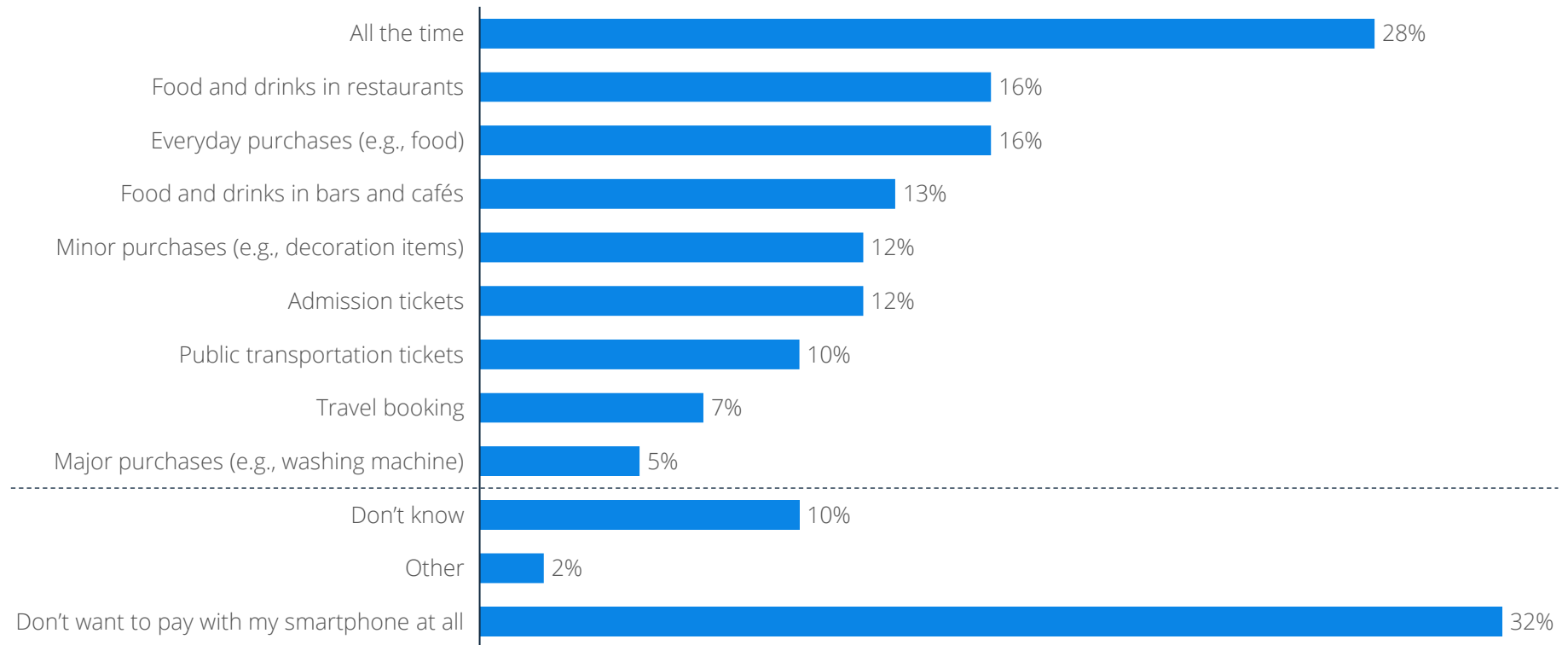
Usage of payment methods at POS in % in 2020

— U.S. — UK — Germany — China



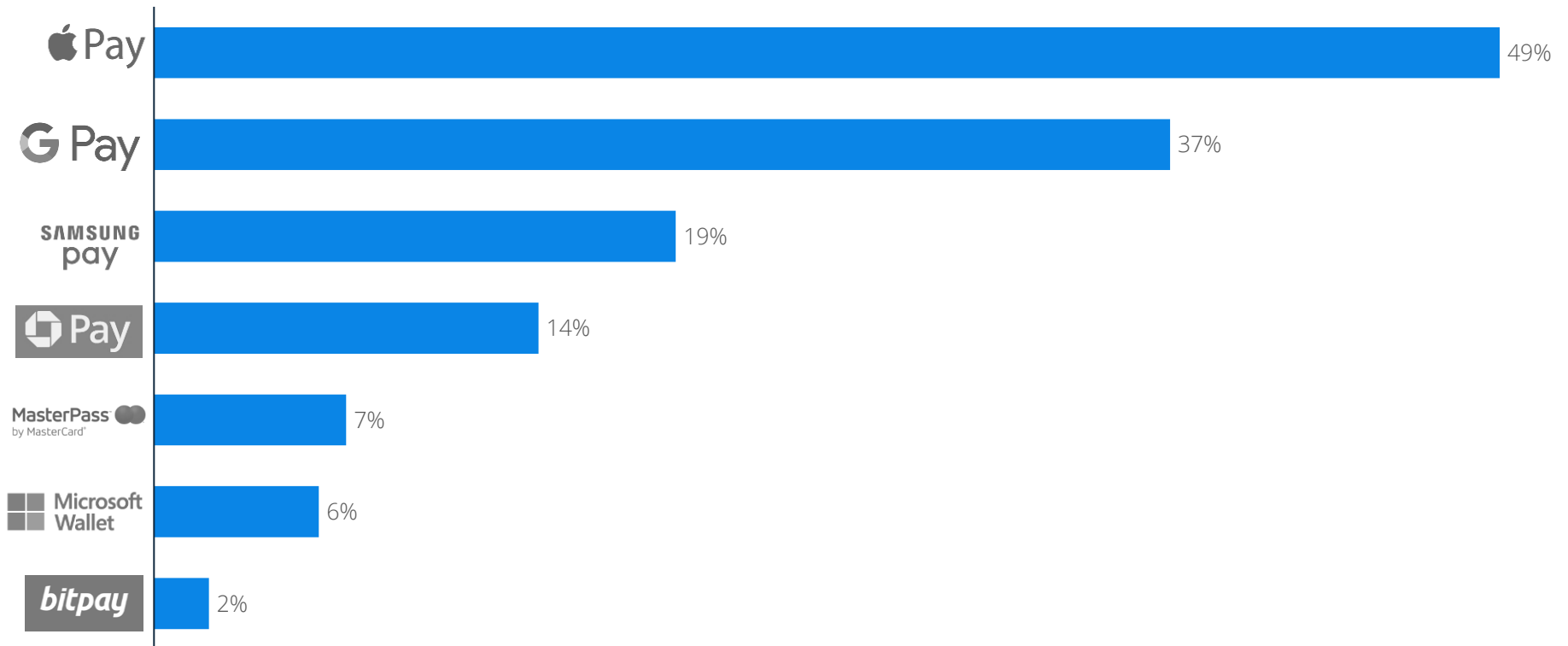
28% of U.S. consumers would like to use mobile payment methods at all times

Relevance of mobile payment methods in the U.S. in 2020



ApplePay and GooglePay are the most popular mobile payment methods in the U.S.

Usage share of selected mobile payment methods in 2020



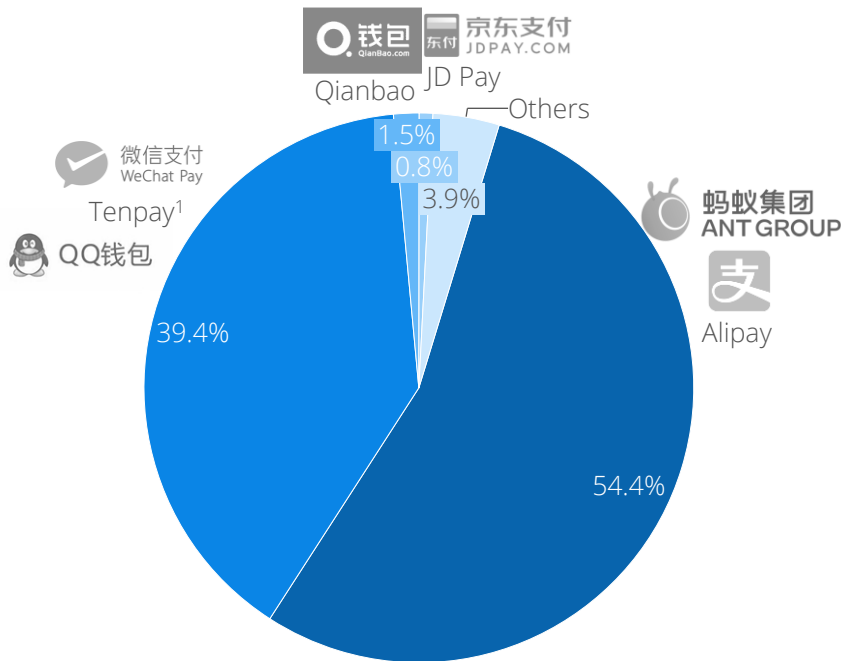
"Which of these services have you used in the past 12 months to pay in stores, restaurants or other points of sale with your smartphone?"; Multi pick; n=684 respondents who used mobile payment in restaurants, stores and other points of sale in the past 12 months

Sources: [Statista Global Consumer Survey](#), as of October 2020

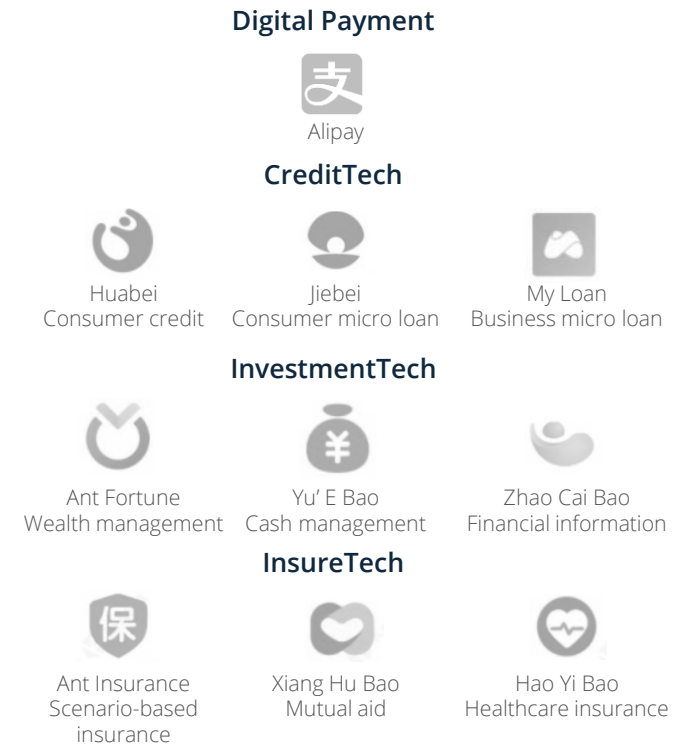
Besides China's largest digital payment platform, Ant Group offers a diverse set of financial solutions



Market share of leading third-party online payment providers in China in 2019



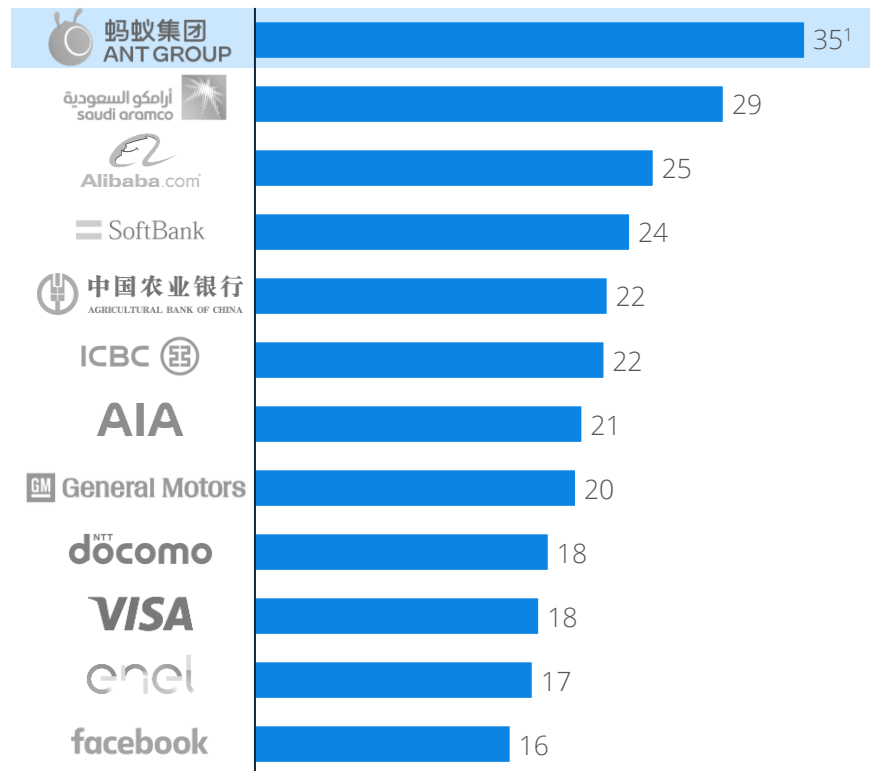
Ant Group business breakdown



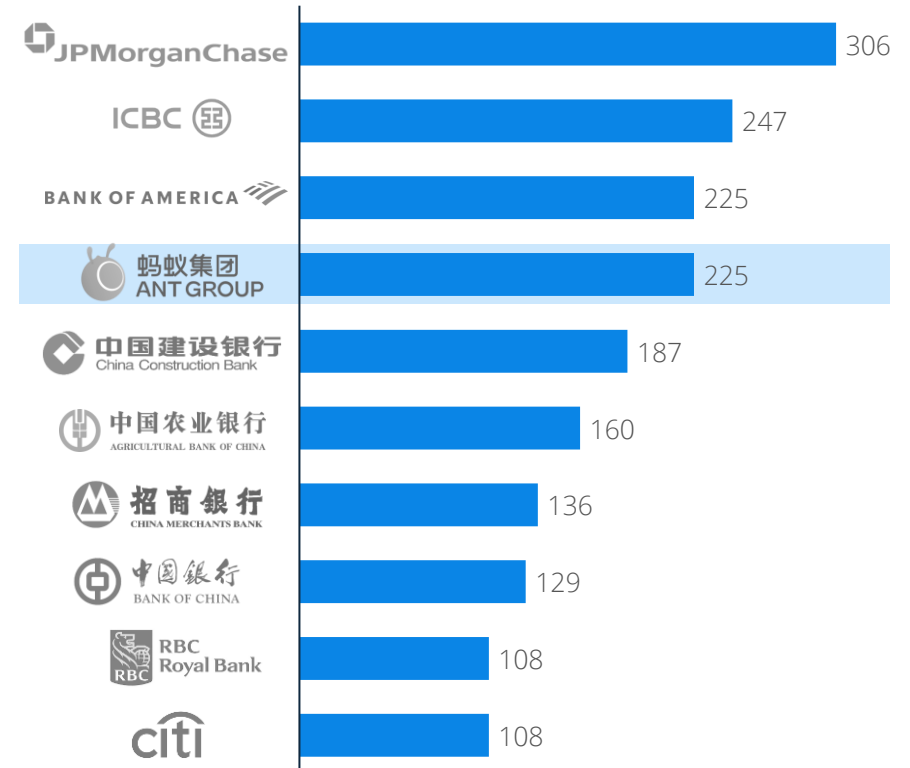
After Ant Groups record IPO it will be one of the world's highest-valued financial firms



Global IPOs with most money raised in billion US\$



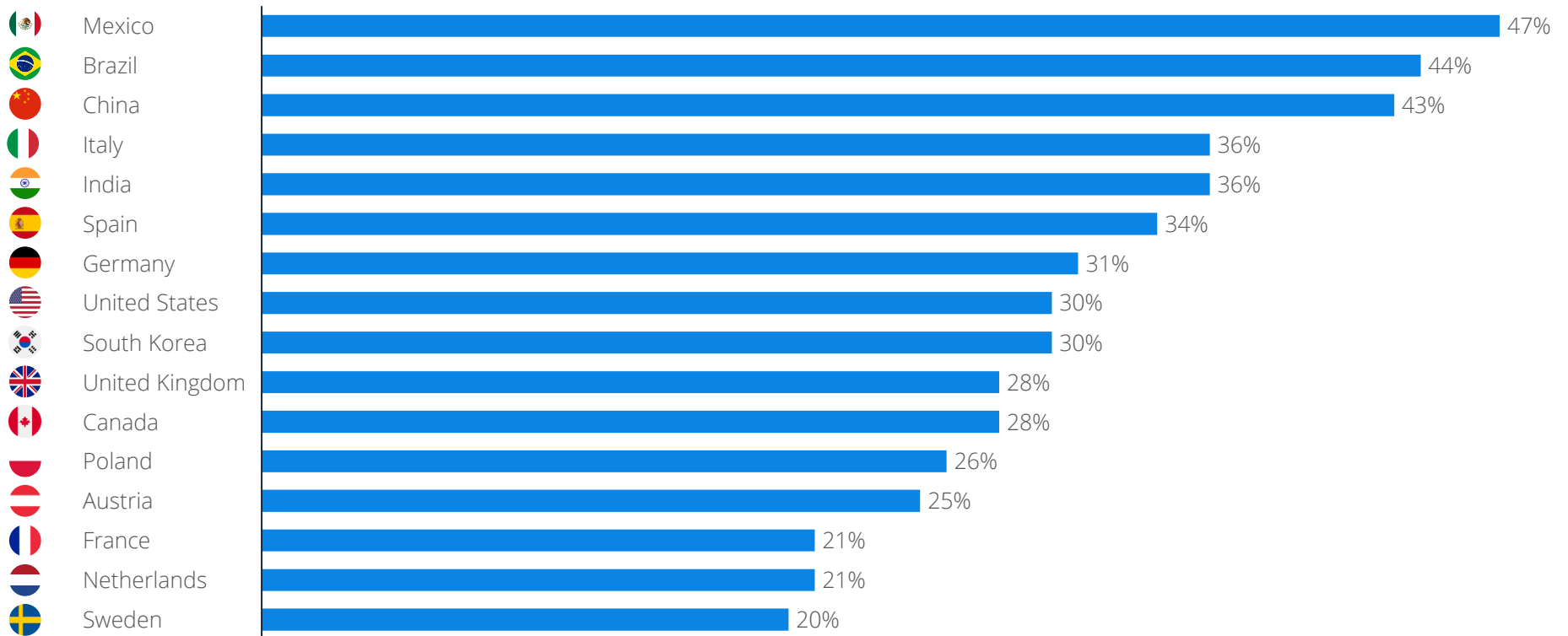
Global financial firms market cap in billion US\$ in 2020²



1: estimated 2: Bloomberg, as of August 2020, Ant Group valuation based on target IPO raise
Source: Media reports, company information, Bloomberg

Interest in Robo-Advisors is highest in Mexico, Brazil, and China

Share of respondents who could imagine consulting a digital program (Robo-Advisor) for financial advice in 2019

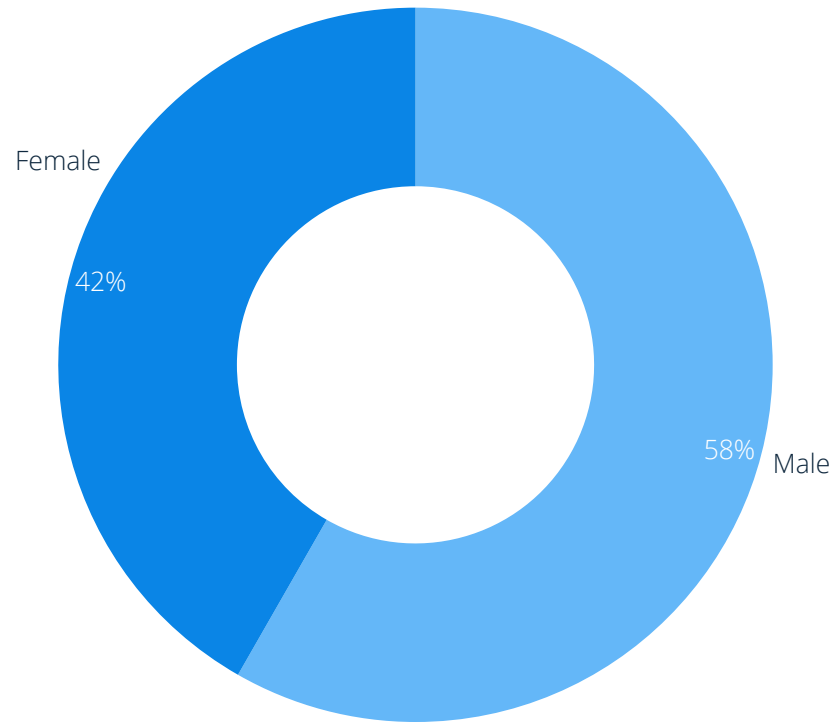


"Which of these statements apply to you?/I could imagine consulting a digital program (RoboAdvisor) for advice on finance issues"; Multi pick;
n=40,600

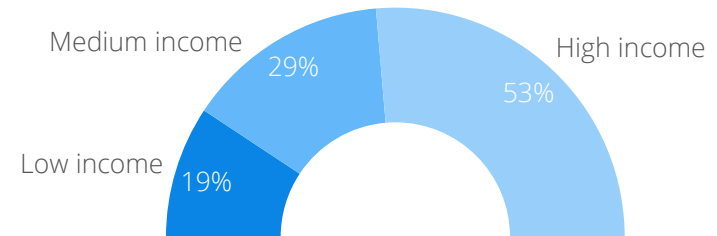
Sources: [Statista Global Consumer Survey](#), as of October 2019

A higher share of people with high income use Mobile POS Payments in the UK

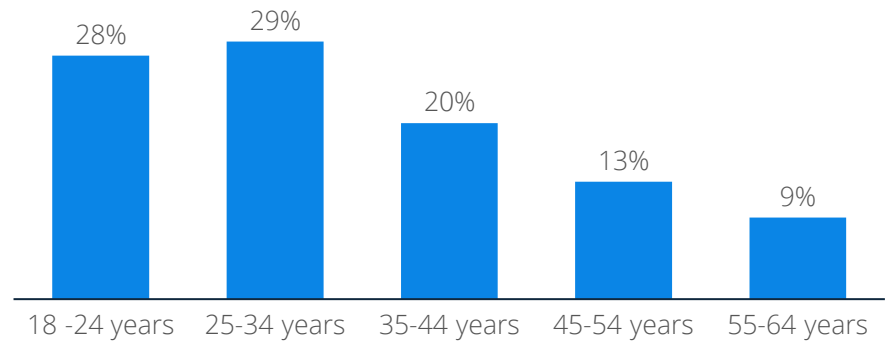
Gender



Income



Age



Smart Home

Smart homes and the internet of things (IoT) are irrevocably intertwined, and the IoT is currently one of the most disruptive trends, affecting consumers and businesses in traditional industries alike.

In the Statista Digital Market Outlook, we divide the Smart Home market into the segments Control and Connectivity, Comfort and Lighting, Security, Home Entertainment, Energy Management, and Smart Appliances.

The global Smart Home market reached US\$93 billion in 2020. With revenues of US\$25 billion, the U.S. is the biggest Smart Home market in 2020. Although prospects are positive despite the COVID-19 crisis, the U.S. grew only 6% from 2019 to 2020, which is significantly lower than the Chinese growth rate of 26%. The Chinese market is now almost the same size as the U.S. with revenues of just below US\$25 billion in 2020.

The Smart Home landscape is strongly shaped by large players such as

Google, Apple, Amazon, and Alibaba who have expanded their product portfolios and driven market consolidation. Examples include Amazon, which acquired Ring for US\$1 billion in 2018, and Google, which merged its home devices team with Nest into Google Nest in 2018. Nevertheless, several market segments still have no clear market leader. Manufacturers, telcos, energy suppliers, medium-sized companies, and start-ups still have chances in the future, when practically every product in the average home will be connected to the internet.

Growth in Smart Home markets was strongly driven by Smart Speakers in 2018. The adoption rate for smart Speakers in the U.S. nearly doubled, which can be attributed to growth in both Alexa and Google Home devices. Apple's HomePod, on the other hand, only played a minor role. Moreover, there was an influx of smart displays, such as Echo Show, the Lenovo Smart Display, and Facebook Portal.

Growth is, however, limited due to still improving usability. No matter how many sensors or connected appliances consumers install, they are still required to control settings manually, whether through an app or a voice assistant.

Equally, a lack of unified Smart Home standards slows growth. Competing standards such as Bluetooth, Zigbee, Z-Wave, and Wi-Fi complicate interoperability among devices. However, devices in a smart home are seldom used separately. Customers do not want to switch devices and technologies when controlling, e.g., their home entertainment or security systems. Given this, Apple, Amazon, Google, and the Zigbee Alliance formed a working group in 2019 called "Connected Home over IP" to create an industry standard for smart home connectivity. The future of the Smart Home will be an integrated platform solution with a universal communication standard interlinking all smart devices.

The connection of all Smart Home devices, more sophisticated AI-driven services and the gathering of a gigantic amount of data presents a challenge for Smart Home development. In this respect, the

implementation of 5G is vital. Sharing the data of homeowners with businesses will foster the growth of new individualized technologies and services in the market.

Considering the handling of all this data, security concerns will become even more relevant. As there currently are no minimum requirements, there is no industry standard for implementing cybersecurity into smart devices. Consumers are already worried about data security breaches in their Smart Home and providers need to respond to these concerns.



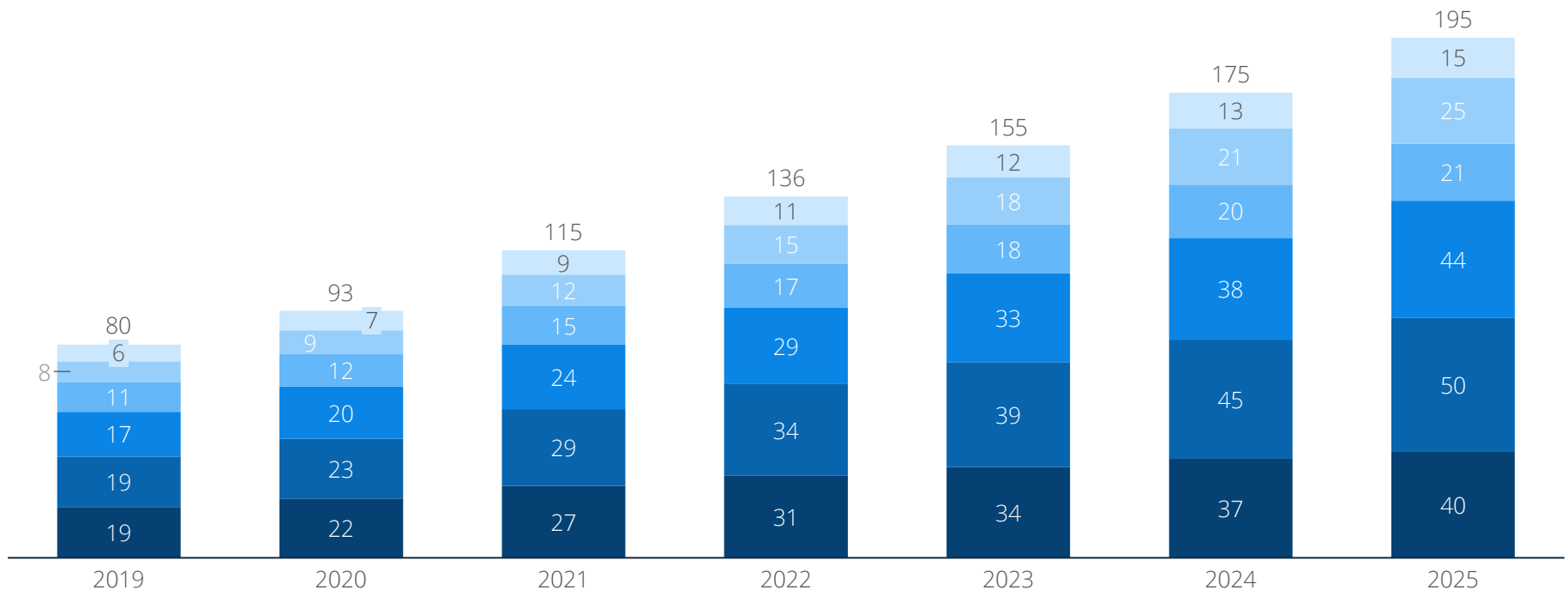
A stylized handwritten signature in black ink, appearing to read 'J. Lasquety-Reyes'.

j.lasquety-reyes@statista.com

The Smart Home market is expected to reach US\$195 billion in 2025

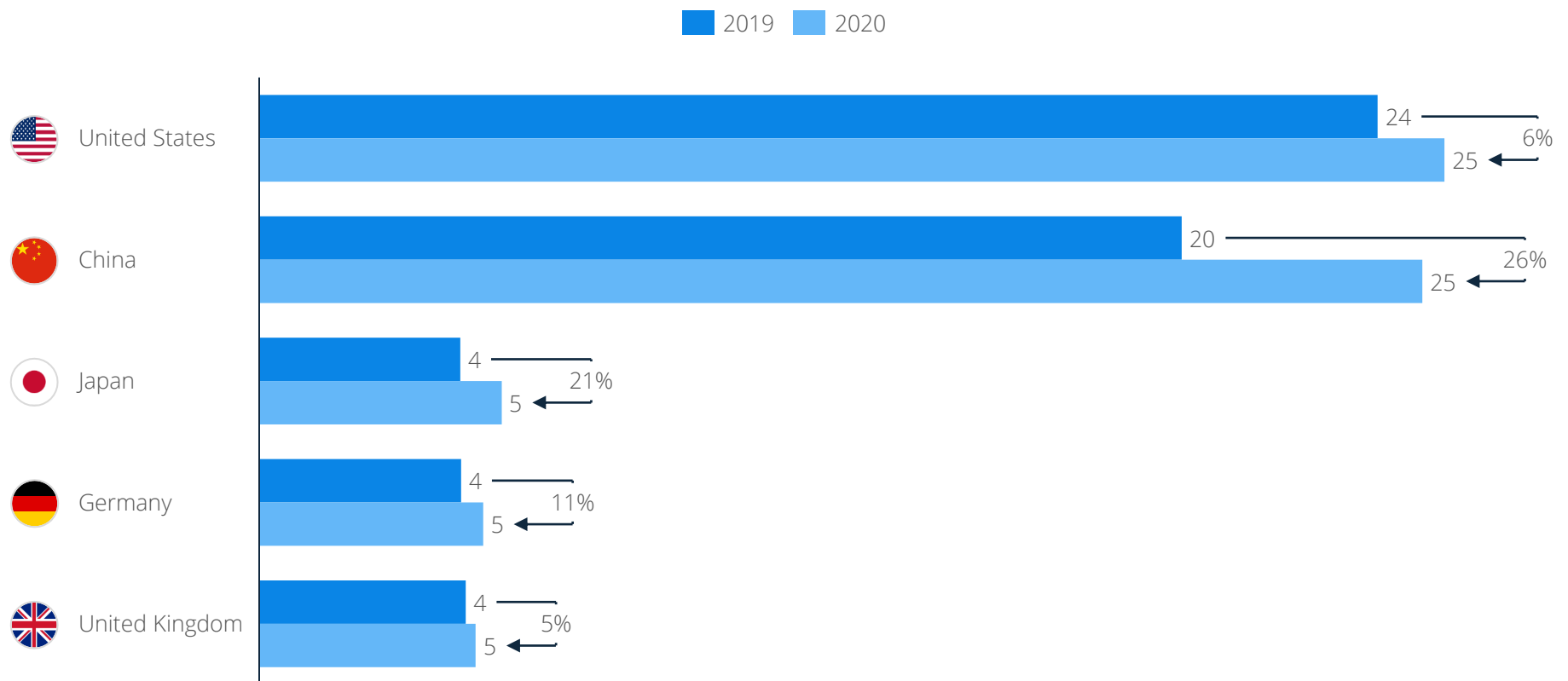
Global Smart Home revenue forecast in billion US\$

Control and Connectivity Smart Appliances Security Home Entertainment Comfort and Lighting Energy Management



China is catching up with the U.S. when it comes to Smart Home revenues

Top 5 Smart Home countries by market revenue in billion US\$



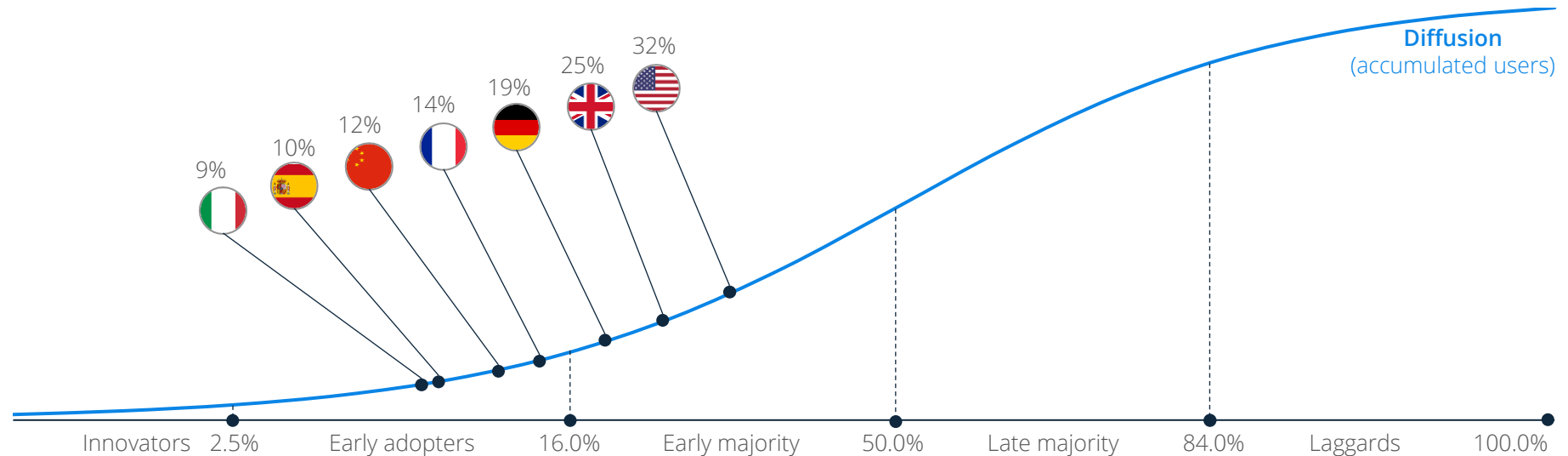
The Smart Home market comprises both start-ups and established companies

Selected key players in Smart Home

	Control and Connectivity	Comfort and Lighting	Security	Home Entertainment	Energy Management	Smart Appliances
Dedicated segment companies						
Players entering the market from foreign industries						

The market is moving past the early-adopter stage in some countries towards acceptance and demand

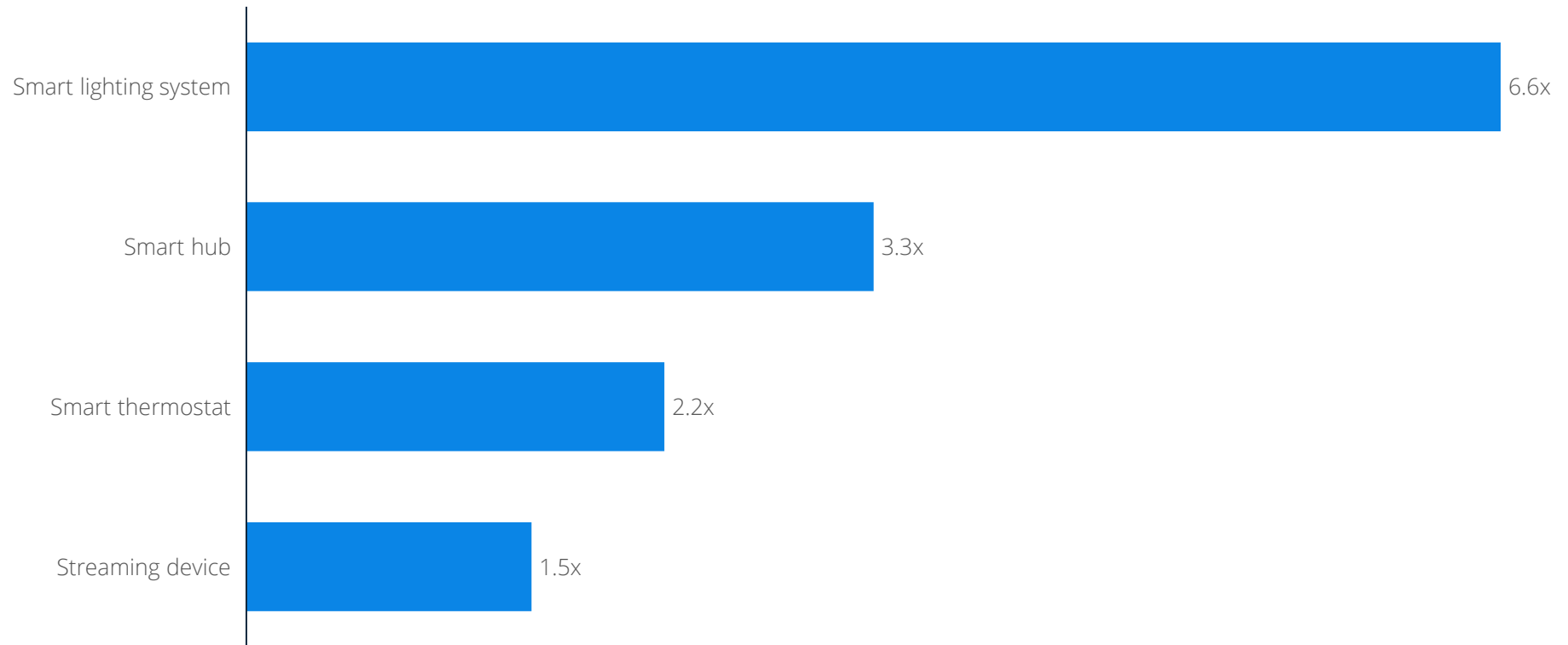
Innovation diffusion curve for 2020



The diffusion of innovations graph shows successive groups of consumers adopting devices from the smart home market (the graph above shows the household penetration rate of selected countries). Innovations in general are not adopted by all individuals at the same time but tend to be adopted in a time sequence and can be classified into adopter categories based on how long it takes to begin using the service. Diffusion is regarded as the rate at which innovations spread among users (an adoption rate of 100% is theoretically possible but not realistic). Considering the moderate level of penetration, replacement cycles, and the fact that more and more devices will be connected, adoption will steadily grow in the coming years.

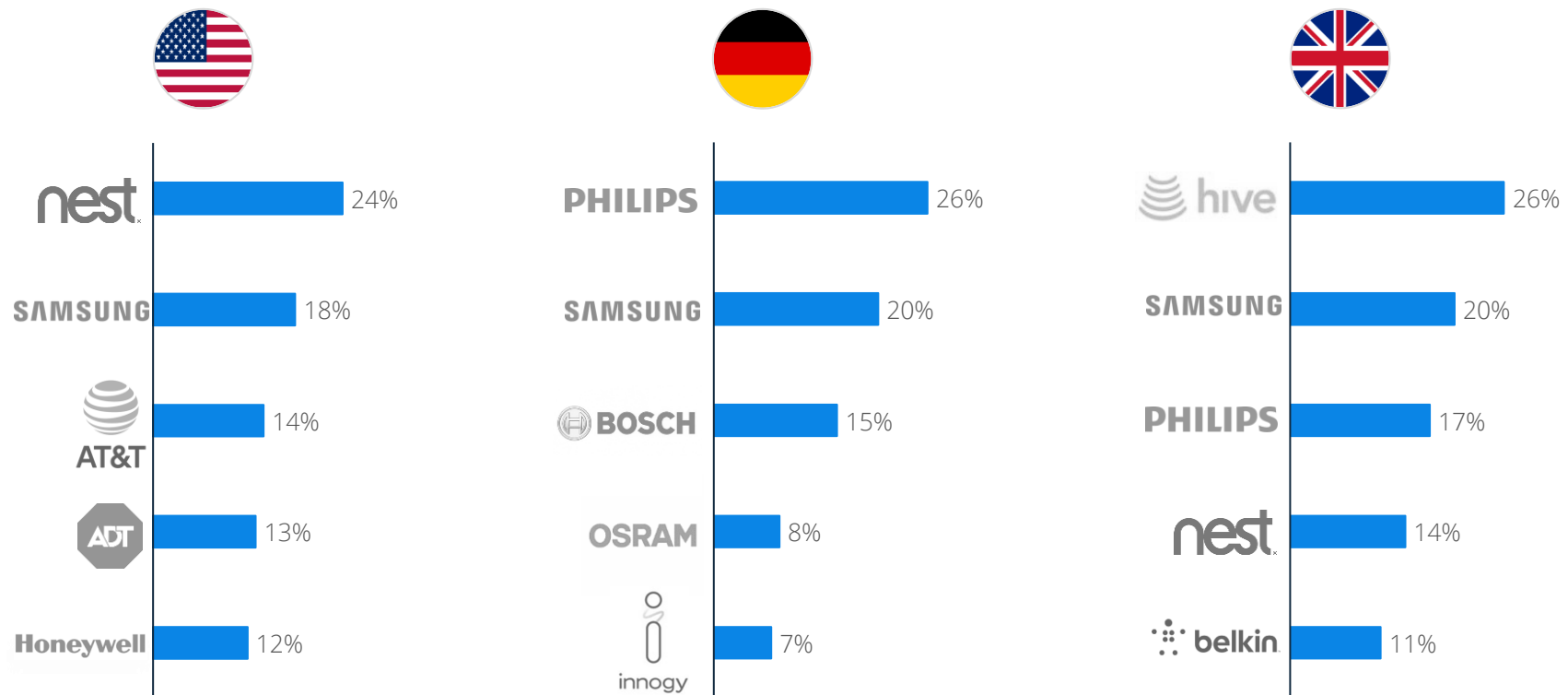
U.S. smart speaker households are 6.6 times more likely to also own a smart lighting system

Likelihood of U.S. smart speaker households to use other connected devices vs. non-smart speaker households



The top Smart Home product brand in the U.S. is Nest, whereas Hive leads in the UK and Philips in Germany

Ownership of selected Smart Home automation devices in 2020



"Which of these providers do you own Smart Home devices from?" Multi Pick; U.S.: n=993; UK: n=445; Germany: n=483 respondents who own smart home devices for comfort and lighting, building safety/security, and/or energy management
Sources: [Statista Global Consumer Survey](#), as of August 2020

eServices

The ubiquitous use of the internet and mobile phones has triggered a flourishing eServices business, which is still on the rise.

In the Statista Digital Market Outlook, eServices is divided into four segments: Online Food Delivery, Event Tickets, Fitness, and Dating Services.

The eServices market reaches a revenue of US\$189 billion in 2020. Regionally, China has taken the lead with US\$63 billion in revenues compared to the US\$43 billion in the U.S. With a revenue of US\$32 billion in 2020, the European market is smaller compared to China and the U.S.

Since Pizza Hut launched the first-ever pizza online ordering service back in 1994, the Online food Delivery market has become a billion-dollar business. Food delivery platforms have aggregated menus of hundreds of thousands of restaurants in easy-to-access apps in nearly every city

across the world. Today, competition in the market is fierce and industry leaders are constantly changing. In the U.S., DoorDash has managed to overtake the dominant GrubHub. Meanwhile, in China, Meituan Waimai has merged with Dianping to rival the industry leader Ele.me.

Though the COVID-19 pandemic has caused an increase in food delivery sales because of social distancing rules, many food delivery services are still failing to turn a profit. Many companies operated at a loss for years in attempts to establish their brands across regions.

A recurring issue is whether food couriers should be considered employees entitled to certain rights and benefits or freelancers. This is usually settled differently depending on the country. Considered Commissions paid by restaurants for deliveries are also a point of contention. There is still no standard business model leaving room for standardization and innovation.

Event Tickets is the second-largest eServices segment, encompassing Cinema, Sports, and Music Events. The cancellation of many live events around the world, social distancing rules, and general public concern has hit this segment the hardest during the COVID-19 pandemic, with revenues more than 50% smaller compared to 2019. The recovery of the online event tickets market is bound to the recovery of spectator activities in general. In the meantime, companies such as Live Nation are testing drive-in concert tours and crowdless shows.

As for the Fitness segment, the crisis has accelerated the development. Many people are compelled to exercise at home rather than the gym, spurring the growth of stay-at-home fitness services such as Peloton. In the future, we might see even more sophisticated services and devices developed for this indoor market, especially with the upcoming 5G introduction.

Dating Services around the world have weathered the crisis quite well, with people seeking connections and companionship in the midst of isolation and uncertainty. In order to respect social distancing rules, companies such as Tinder and Match have introduced video dating. Yet

despite more active users, the economic impact of the crisis means that fewer customers are willing to pay for premium subscriptions which are the main source of revenue for online dating services. An innovative solution to invigorate flagging revenues is to combine dating services with the now thriving fitness segment, e.g., where fitness profiles can be combined with dating profiles, and fitness activities can be shared as interactive online dates.

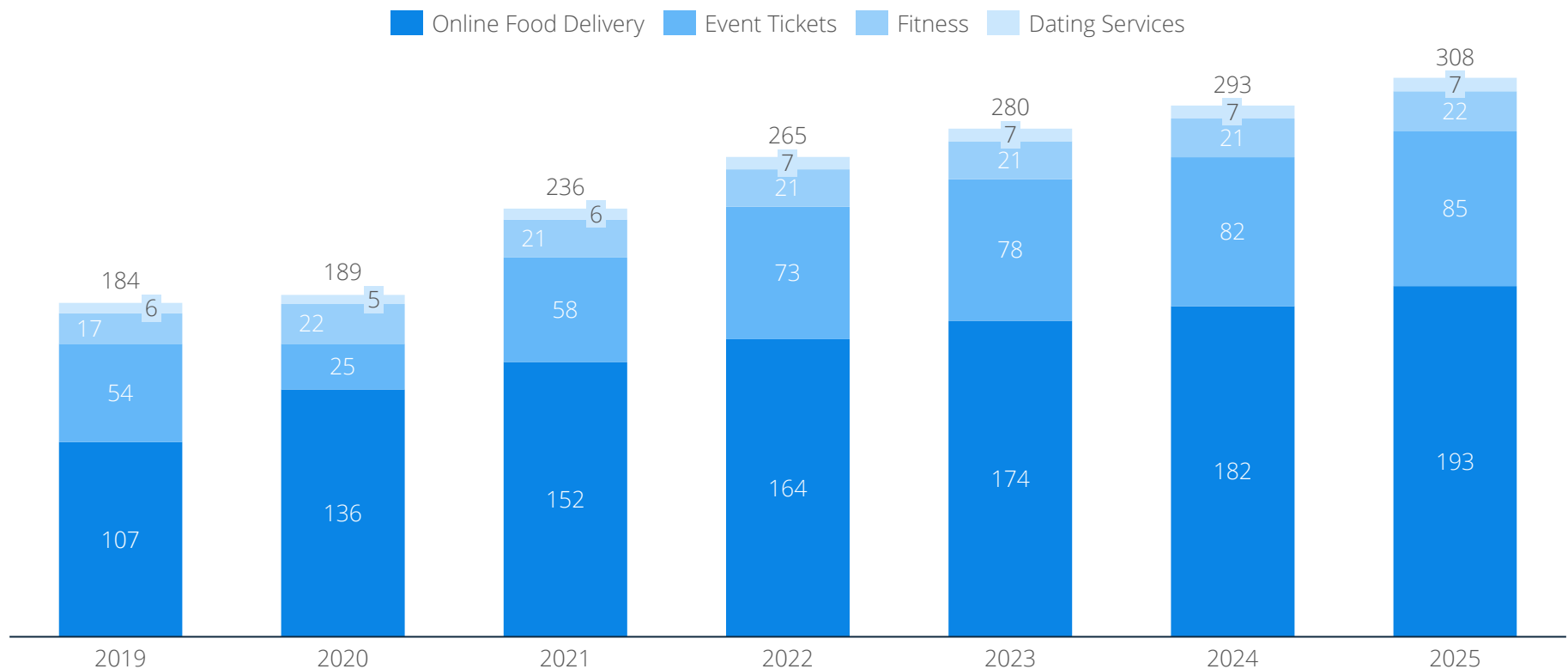


A stylized, handwritten signature in black ink, appearing to read 'J. Lasquety-Reyes'.

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eServices expected to reach US\$308 billion in 2025 with Online food Delivery as the largest segment

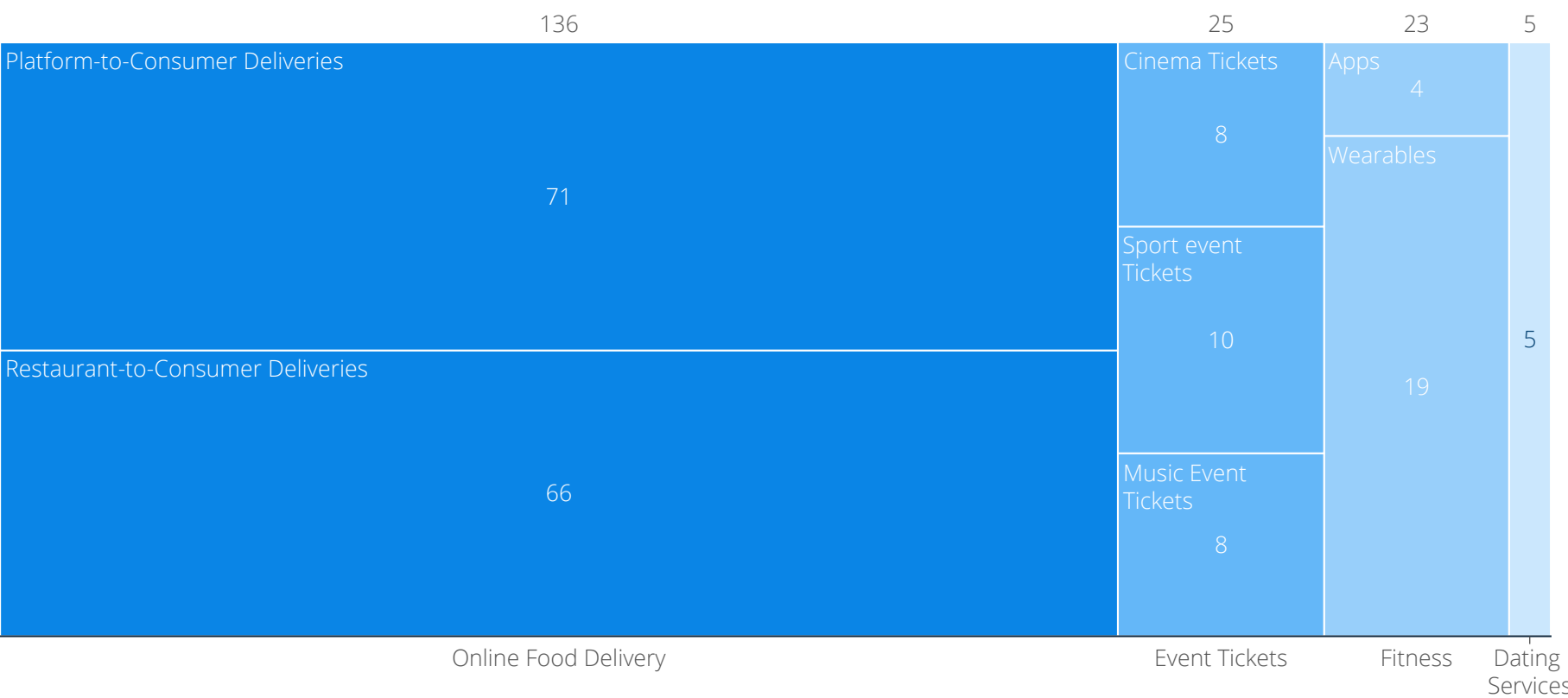
Global eServices revenue forecast in billion US\$



Note: Revenue figures refer to Gross Transactional/Merchandise Value (GTV/GTM)
Sources: [Statista Digital Market Outlook](#), as of October 2020

Online Food Delivery dominates the global eServices market followed by Event Tickets

Global eServices revenue in billion US\$ in 2020



In all eServices segments, the variety of different service and business models is high and changing fast

Selected key players in eServices

	Online Food Delivery	Event Tickets	Fitness	Dating Services
Start-ups ¹				
Established players				

¹: Founded in or after 2008

Sources: Statista Digital Market Outlook, as of October 2020

Most Online Food Delivery players had more than 5 funding rounds

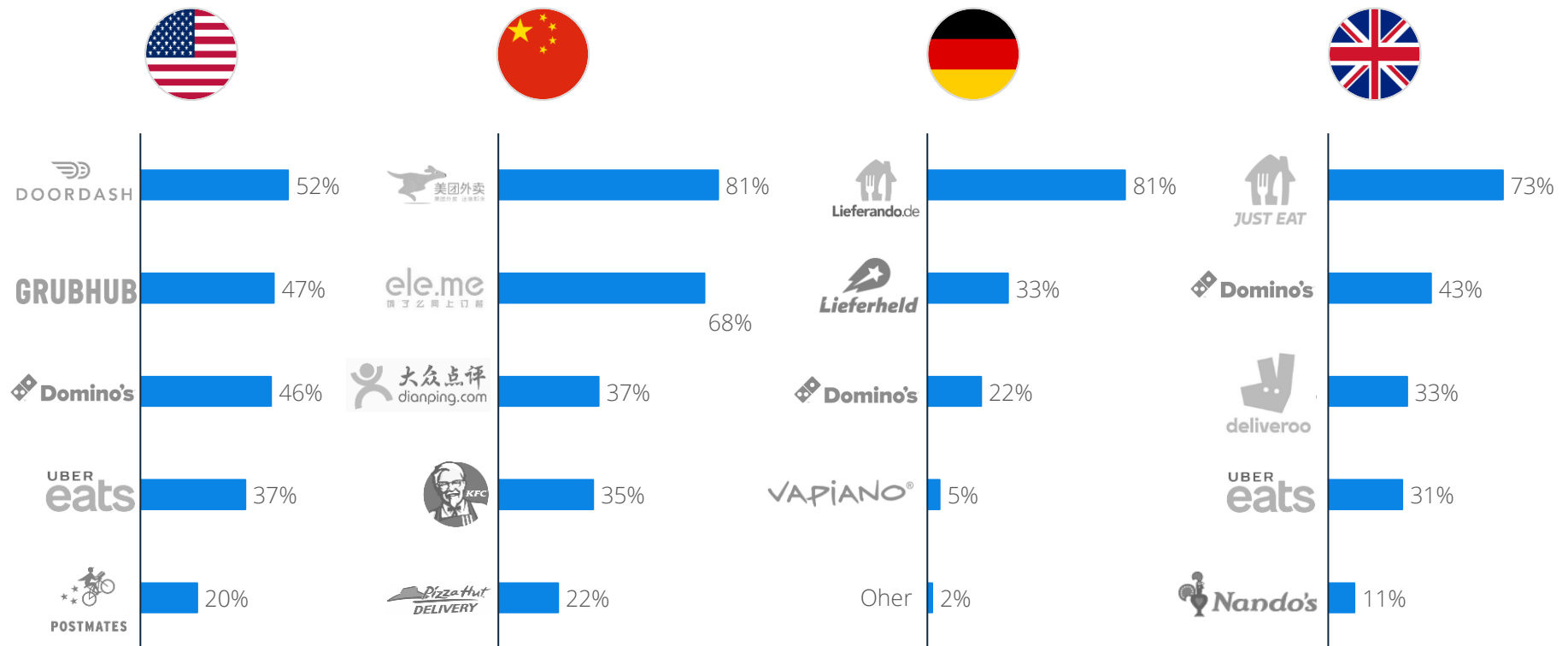
Overview of selected Online Food Delivery players

Company	Segment	Headquarters	Main regions covered	Funding in billion US\$	Funding rounds	Revenue in billion US\$ 2019
 Deliveroo	P2C ⁷	United Kingdom	Europe	1.5	10	-
 Delivery Hero¹	R2C ⁷	Germany	Europe	5.1	16	1.63 ²
 Domino's Pizza	R2C ⁷	United States	United States, Europe, China	-	-	3.62
 Ele.me³	P2C ⁷	China	China	3.3	9	-
 Postmates	P2C ⁷	United States	United States	0.90	12	0.50 ⁴
 Zume Pizza	R2C ⁷	United States	United States	0.42	7	-
 GrubHub	R2C ⁷	United States	United States, Europe	0.28	8	1.31
 Just Eat	R2C ⁷	United Kingdom	Europe	0.12	5	1.31 ⁵
 Takeaway.com	R2C ⁷	Netherlands	Europe	0.77	3	0.48 ²
 UberEats	P2C ⁷	United States	United States, Europe	25.2 ⁶	27 ⁶	2.0 ⁶
 Glovo⁹	P2C ⁷	Spain	Europe	0.51 ⁴	9	-

1: German operations bought by Takeaway.com in 2018 2: €/US\$ (2019)=1.11986 3: Ele.me was bought by Alibaba in 2018 4: Estimated 5: GBP/US\$ (2017)=1.31160 6: Total funding amount of Uber. 7: P2C - Platform-to-Consumer and R2C - Restaurant-to-Consumer
Sources: Company information, Crunchbase

Lieferando is the clear market leader in Germany whereas DoorDash is the leader in the U.S.

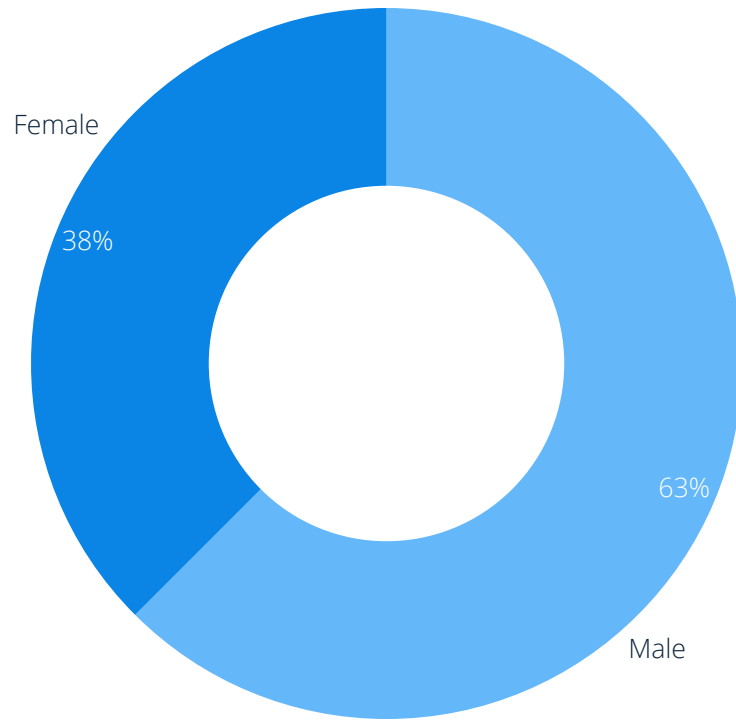
Usage share of selected Online Food Delivery players in 2020



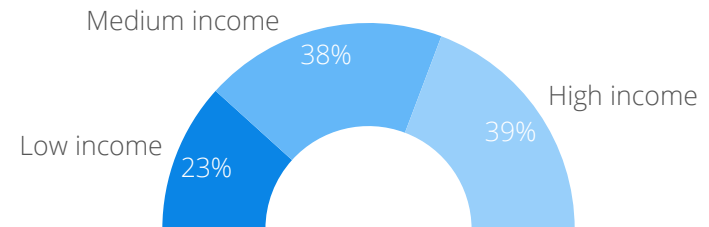
"Which of these online providers of food delivery have you used in the past 12 months?" Multi Pick; U.S.: n=1,942; China: n=1,200; UK: n=1094; Germany: n=804 respondents who used meal orders online in the past 12 months
Sources: [Statista Global Consumer Survey](#), as of October 2020

Online Food Delivery users in India are mostly young males with medium to high incomes

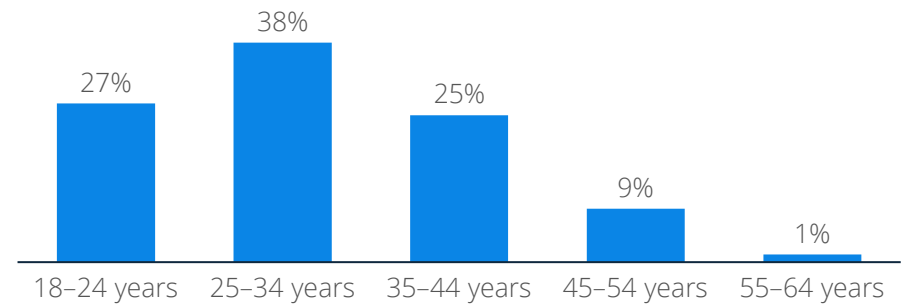
Gender



Income

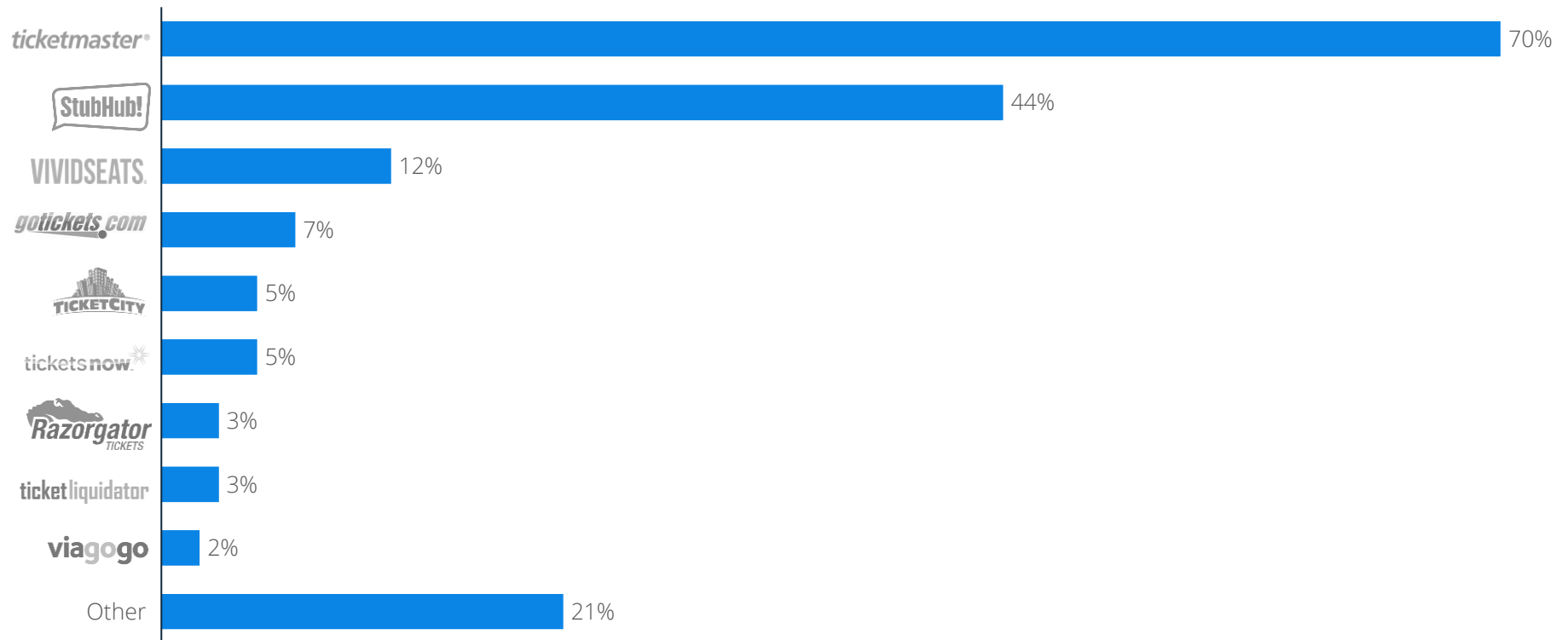


Age



Ticketmaster dominates U.S. online ticketing followed by StuHub! and VIVIDSEATS.

Share of respondents who use selected websites and apps to purchase event tickets in the U.S. in 2020

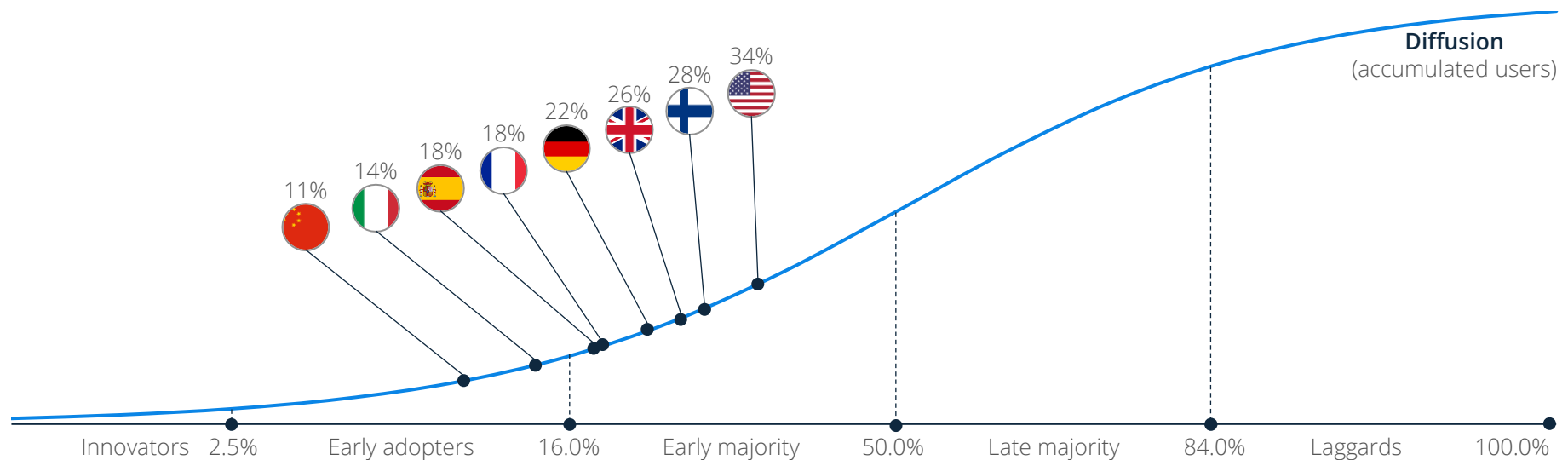


"Which of these online providers have you bought event tickets from (website or app) in the past 12 months?"; Multi pick; n=1287 respondents who bought event tickets online

Sources: [Statista Global Consumer Survey](#), as of September 2020

U.S. consumers have the widest adoption of online event ticket purchasing with 34% penetration rate

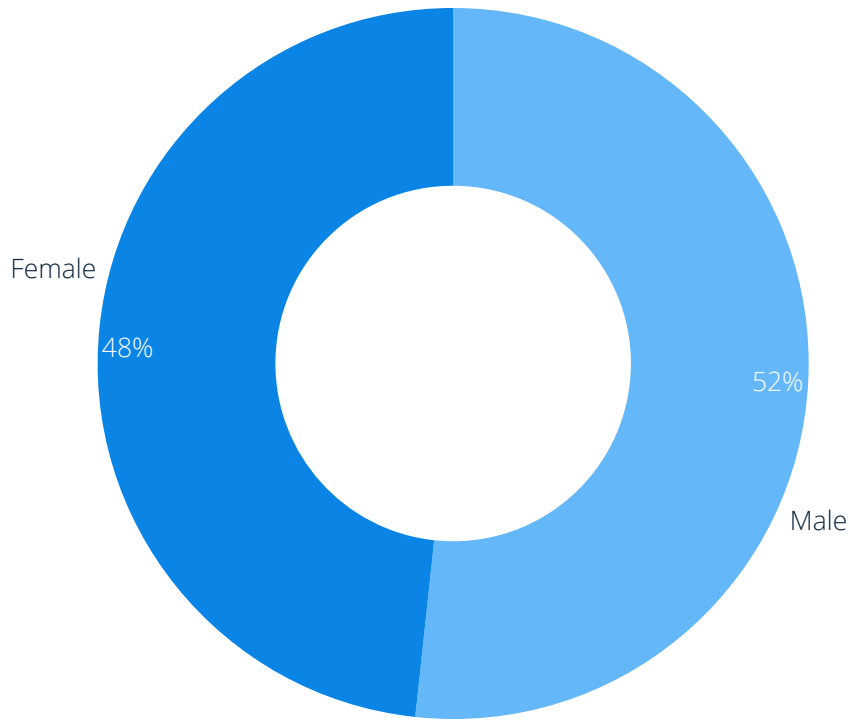
Innovation diffusion curve for online event ticket services in 2019



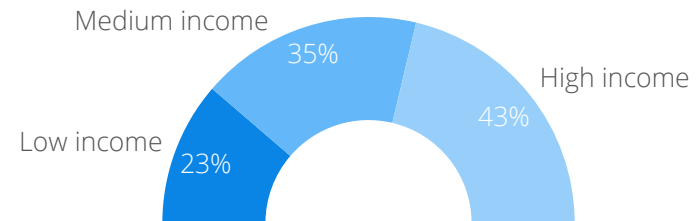
The diffusion of innovations graph shows successive groups of consumers adopting Event Tickets (for this the graph above shows the penetration rate of selected countries). Innovations in general are not adopted by all individuals at the same time but tend to be adopted in a time sequence and can be classified into adopter categories based on how long it takes until they begin using the service. Diffusion is considered to be the rate and volume at which innovations spread among their users (an adoption rate of 100% is theoretically possible but not realistic). Considering the high adoption rates, the Event Tickets segment is likely to grow slower in the coming years, especially in the UK and the U.S. China's big market still holds great potential.

Most event ticket users in the U.S. are between 25-44 years old and have a high income

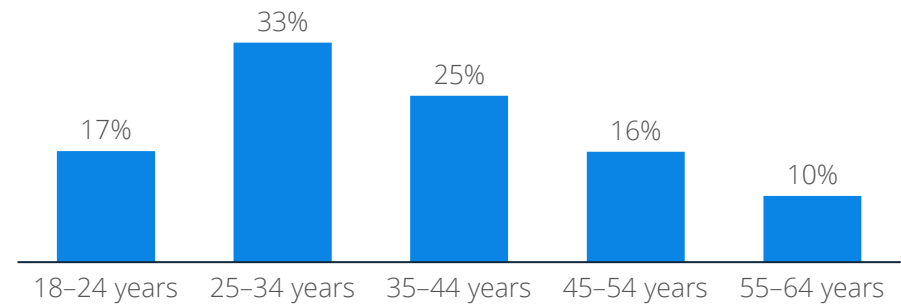
Gender



Income



Age



The Fitness market is shaped by start-ups as well as multinational apparel and tech companies

Revenue of selected key players in fitness apps and wearables

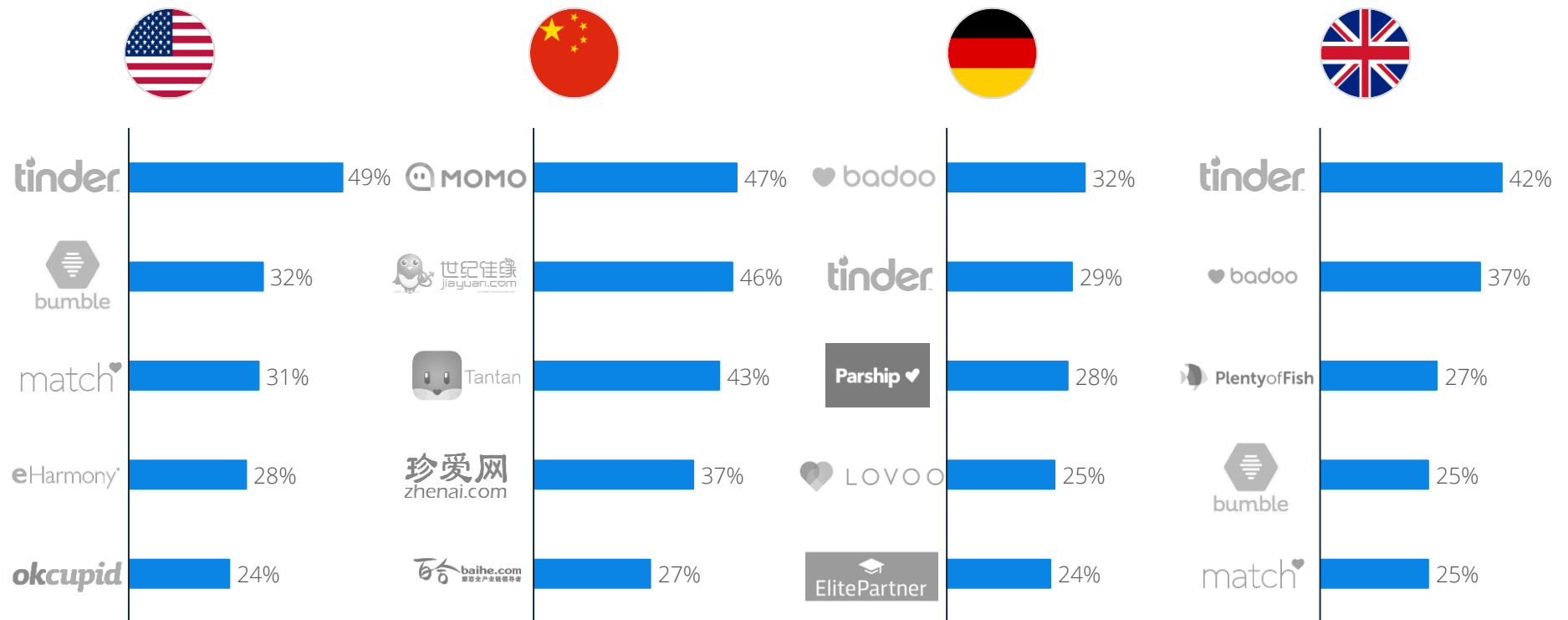
Company	Products	Headquarter	Revenue in bnUS\$ in 2018	Revenue in bnUS\$ in 2019
 Adidas	miCoach FIT SMART, Heart Rate Monitor, Runtastic	Europe	24.5 ¹	26.5 ¹
 Fitbit	Fitbit Zip, Fitbit One, Fitbit Flex, Fitbit Charge, Fitbit Alta, Fitbit Charge HR	United States	1.5	1.4
 Garmin	Garmin Vivofit 3, Garmin Vivoactive, Garmin Vivosmart, Garmin Forerunner	Europe	3.4	3.8
 Huawei	TalkBand B3, TalkBand B3 Lite, Band 2, Color Band A2, Fit, Watch 2	China	103.2	122.9
 Misfit Wearables²	Misfit Ray, Misfit Shine 2, Misfit Flash, Misfit Speedo Shine	United States	2.5 ³	2.2 ³
 Moov	Moov, Moov Now	United States	-	-
 Nike	Nike+ FuelBand, Nike+ FuelBand SE, Nike+ Running App	United States	36.4	39.1
 Under Armour	Under Armour Band, MapMyFitness, MyFitnessPal, Endomondo	United States	5.2	5.3
 Xiaomi	Mi Band, Mi Band Pulse, Mi Fit	China	25.0 ⁴	29.5 ⁴

1: US\$/€ (2019)=1.11986 2: Acquired by Fossil Group 3: Revenue of Fossil Group 4: US\$/CNY (2019)=0.14310

Sources: Company information

In the U.S. Dating Services market, nearly 50% of paying online dating users use Tinder

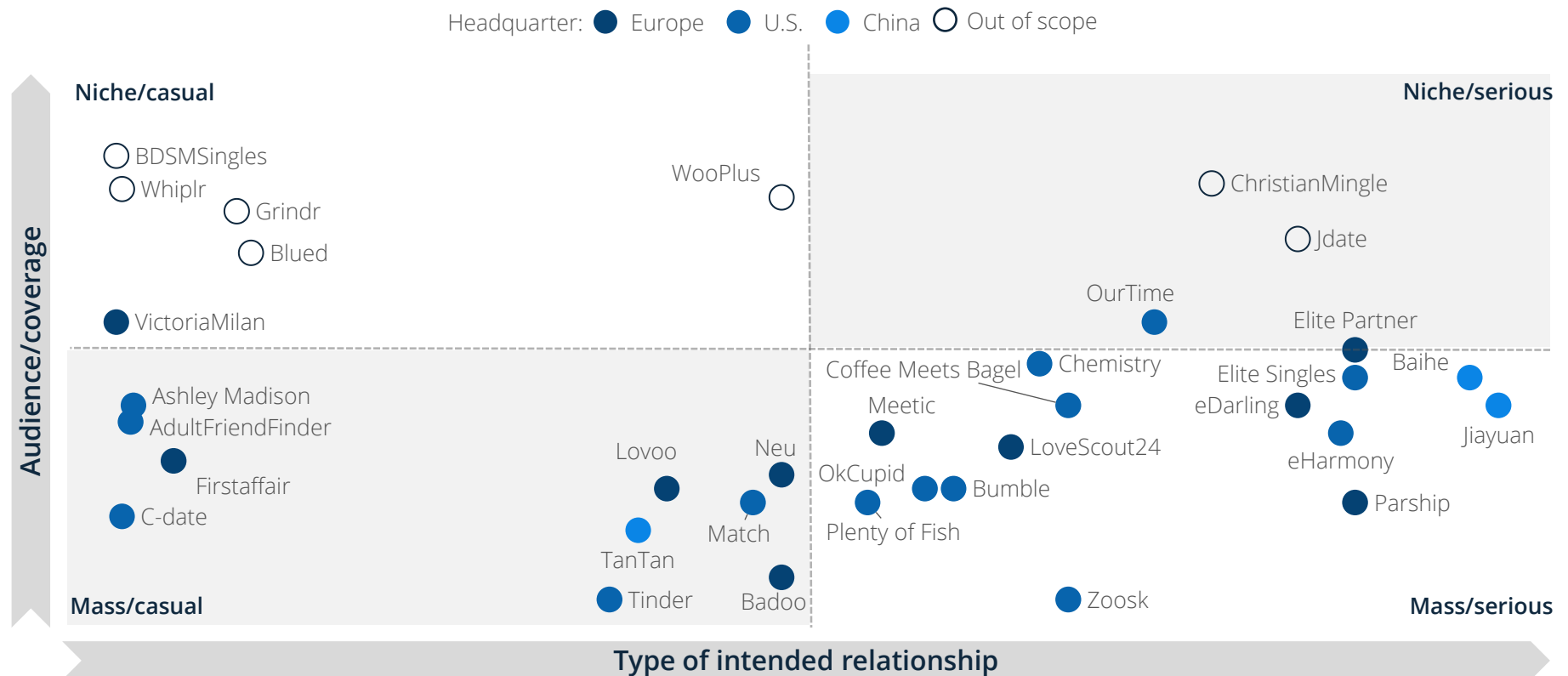
Paid usage of selected online dating services in 2020



"Which of these online dating providers (website or app) have you used as a paying customer in the past 12 months?" Multi Pick; U.S.: n=148; China: n=70; UK: n=52; Germany: n=75 respondents who used and spend money on online dating in the past 12 months
Sources: [Statista Global Consumer Survey](#), as of October 2020

AshleyMadison, C-Date, and Firststaffair are typical casual dating portals for a broader audience

Dating portals and apps segmentation



Mobility Services

The mobility services market is a lighthouse example for the digitalization of traditional industries. The ability to rent a car or book flight, train, and/or bus tickets through a car-sharing provider has made car-ownership alternatives more enticing. While this trend increases travel options in established markets, more and more consumers in developing countries can afford to travel internationally as well, thereby increasing the total number of passengers traveling the world.

Within the Statista Mobility Market Outlook, the Mobility Services category contains the following market segments: Flights, Ride-Hailing & Taxi, Car-sharing, Bike-sharing, Car Rentals, Train Tickets, and Bus Tickets.

The global mobility services market reached US\$520 billion in 2020. With revenues of US\$129 billion in 2020 China takes a leading role within the mobility services market. User penetration and growth rates are lower, in Europe and the U.S. compared to China. The Flights segment generates

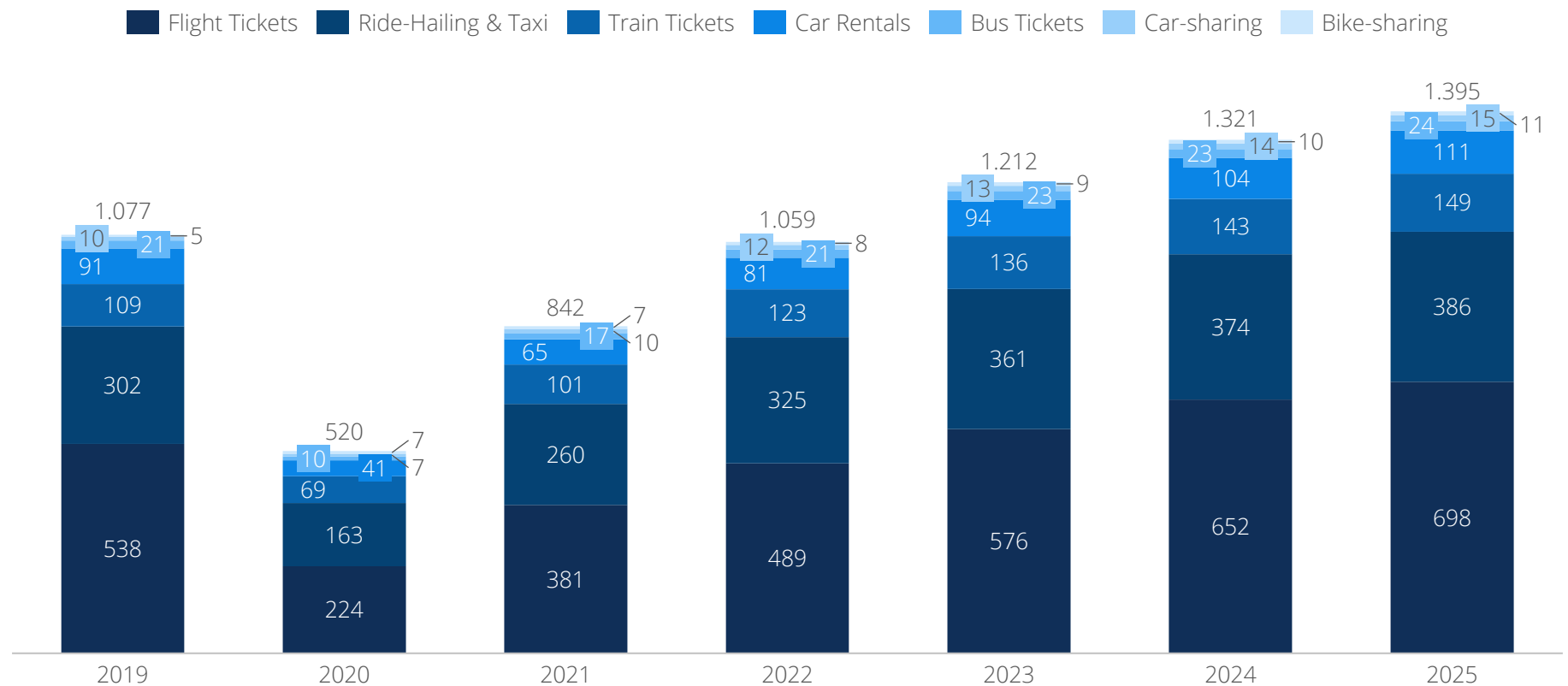
the majority of global revenue (US\$224 billion in 2020), accounting for 43%, followed by Ride-Hailing & Taxi which is expected to have a market size of US\$163 billion in the same year.



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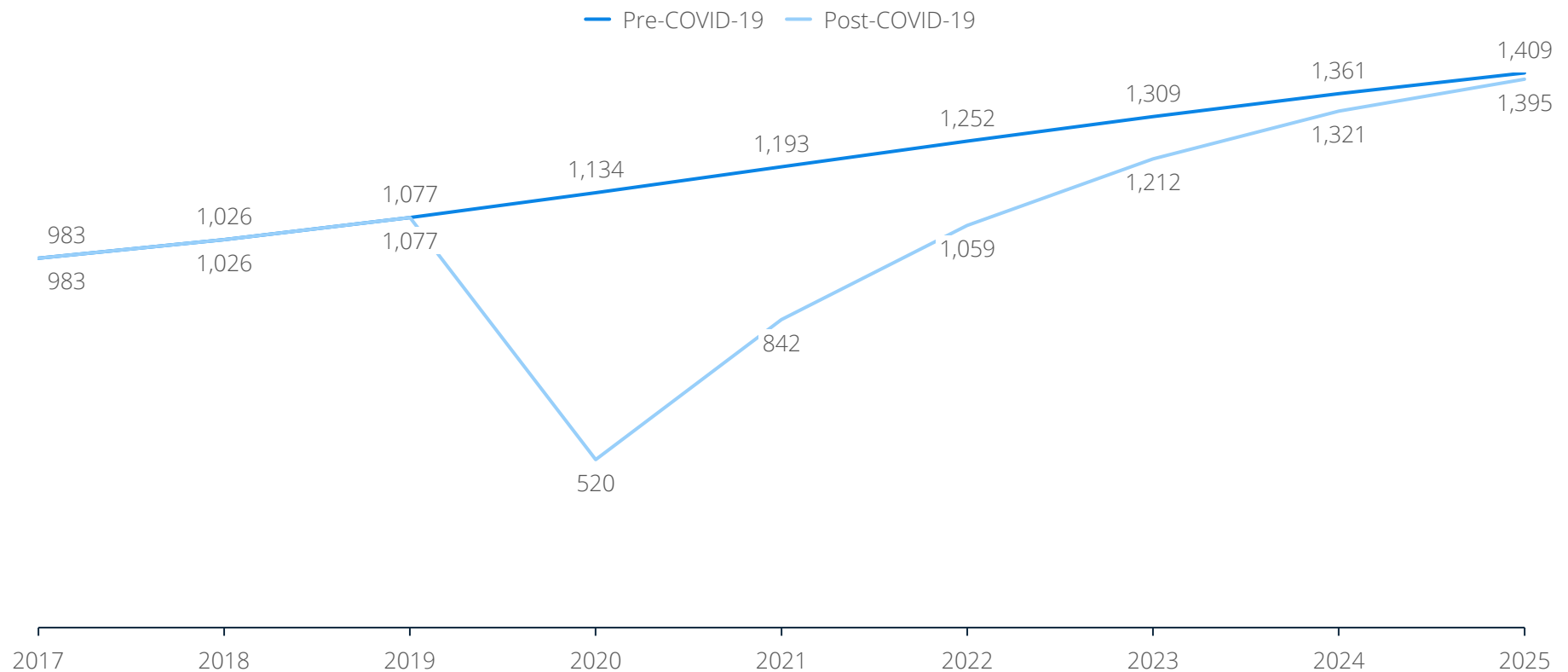
Mobility Services is expected to reach US\$1.3 trillion in 2025 with flight Tickets leading the market

Global mobility services revenue forecast in billion US\$



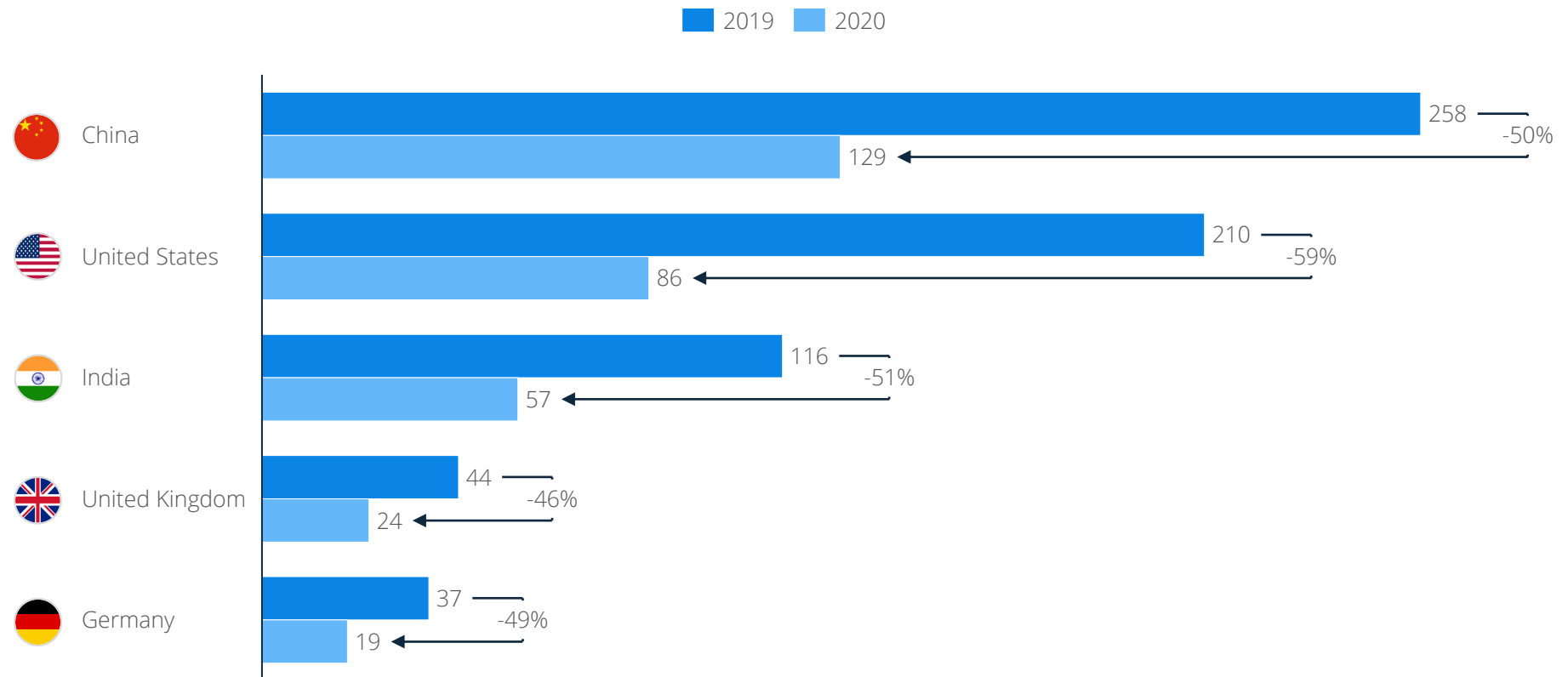
COVID-19 hit the global Mobility Services market hard and cut revenues to almost half in 2020

Global Mobility Services revenue in billion US\$



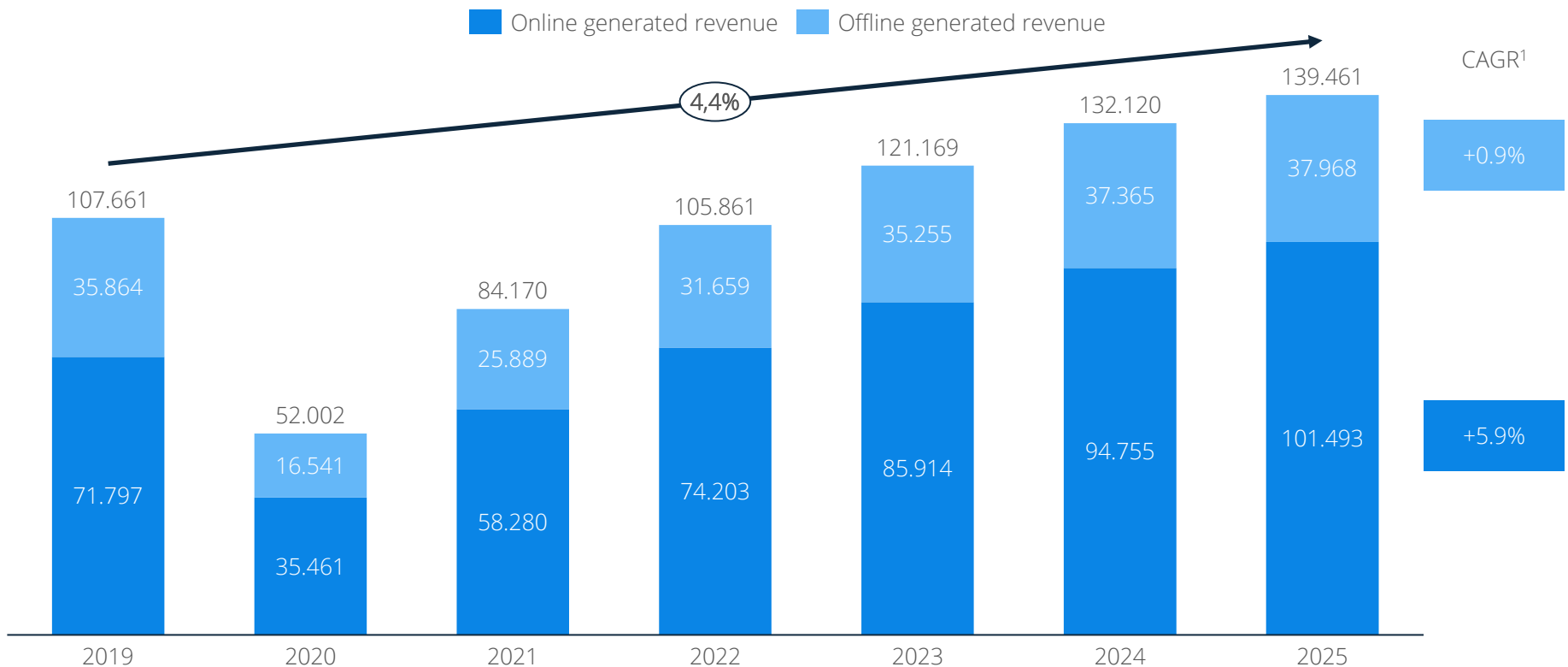
The Mobility Services market in China shrunk by almost 60% from 2019 to 2020

Top 5 Mobility Services countries by market revenue in billion US\$



The growth of the online booking share exceeds the growth of the total market

Global online and offline revenue forecast of Mobility Services in billion US\$



1: CAGR: Compound Annual Growth Rate/average growth rate per year
Sources: [Statista Mobility Market Outlook](#), as of October 2020

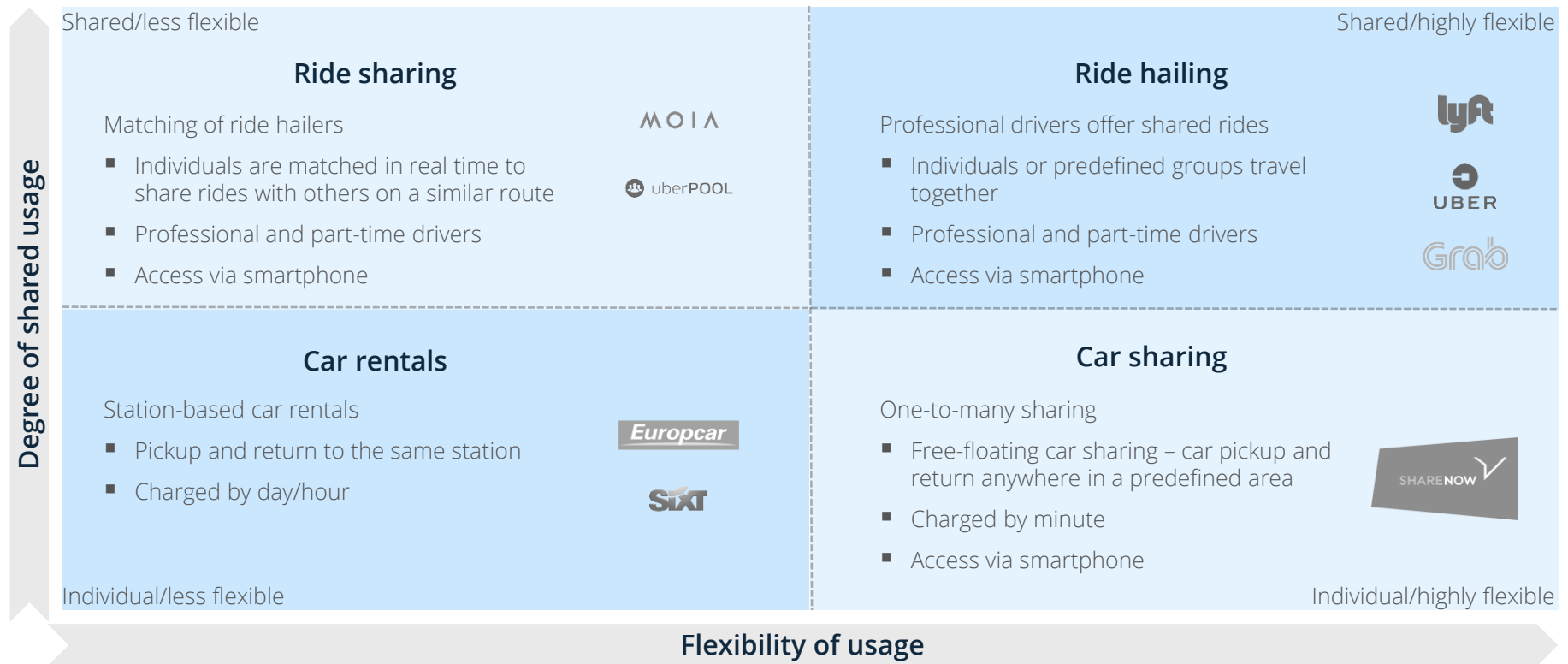
Mobility service providers face fierce competition in all segments of the market

Selected key players in Mobility Services

Flights	Ride Hailing	Trains	Car Rentals	Buses	Car Sharing	Bike Sharing
Lufthansa United Airlines ETIHAD AIRWAYS DELTA AIR LINES CHINA SOUTHERN AIRLINES Emirates RYANAIR BRITISH AIRWAYS AIRFRANCE 中國東方航空 CHINA EASTERN TURKISH AIRLINES	UBER lyft Grab FREEMOVE Gett DiDi taxify VIO MOIA OLA wingz GO JEK	AMTRAK National Rail DB BAHN SNCF JR TRENITALIA GRUPPO FERROVIE DELLO STATO Russian Railways DSB ÖBB भारतीय रेल - INDIAN RAILWAYS	SIXT rent a car AVIS Budget Europcar enterprise National Car Rental Alamo Thrifty 一嗨租车 eMI Car Services TOYOTA Rent a Car GOLD CAR BUCKBINDER Rent-a-Car GLO BAL	FLIXBUS GREYHOUND trainline CleverShuttle ECOLINES national express megabus.com BlaBlaBus Coach USA Bus Éireann	SHARENOW stadtmobil carsharing Cambio Flinkster enjoy MILES zipcar enterprise CarShare EVCARD 已享天开 分时租车	DB Stadtbike Stadtbike mobiike YoBike Santander Cycles nextbike BCycle citi bike M SHARE

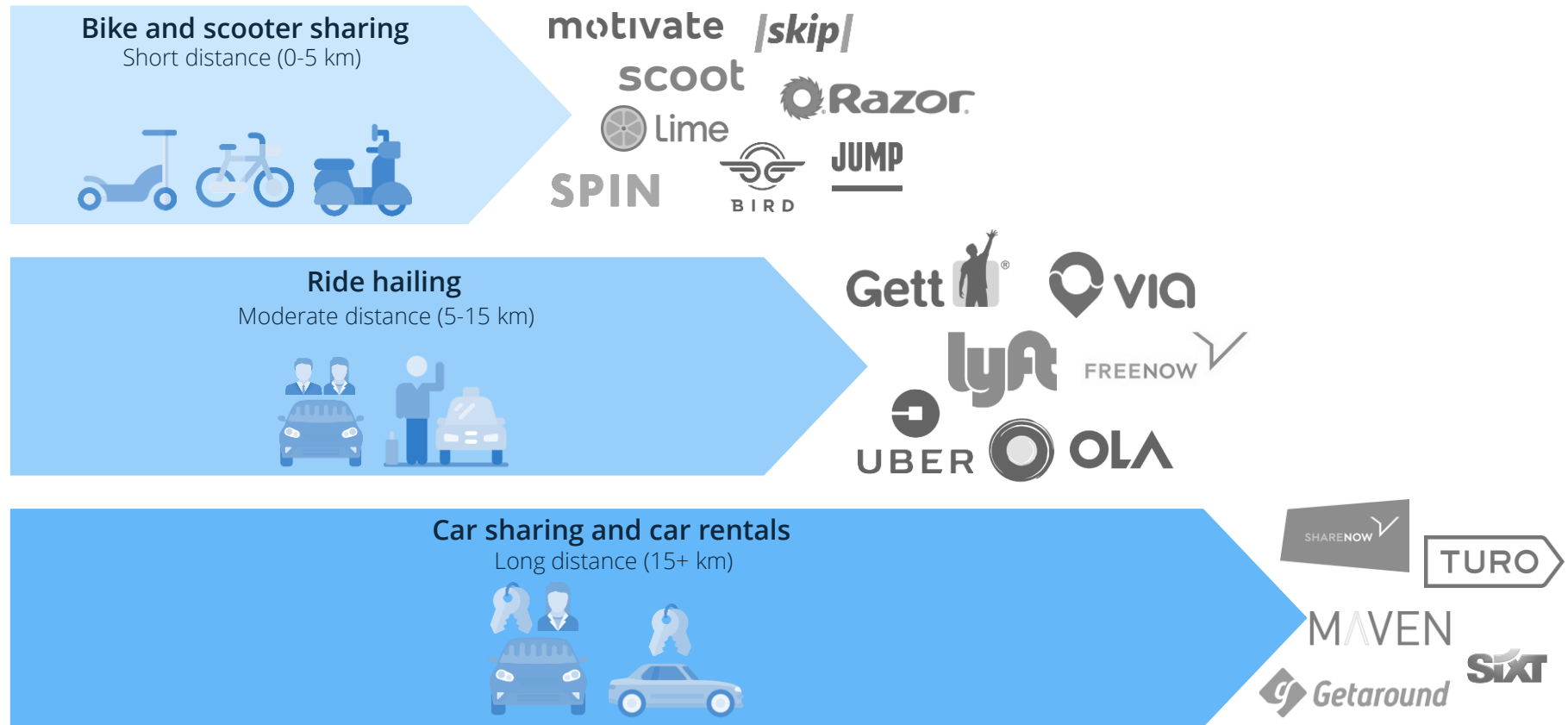
Shared mobility options range from rentals to shared ride hailing

The distribution of shared mobility services



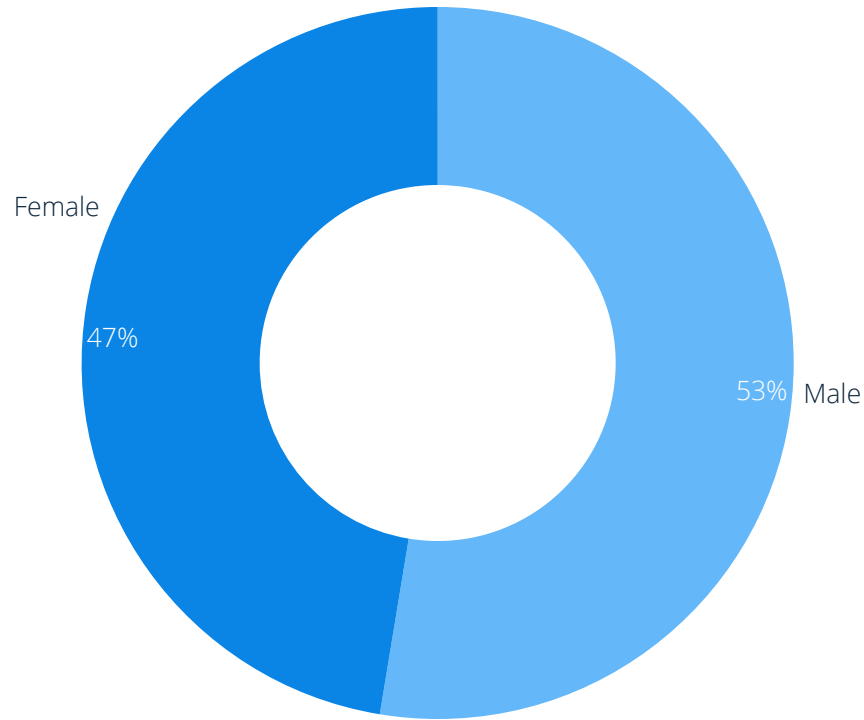
Note: Companies are not exhaustive and serve only as examples
Sources: [Statista Mobility Market Outlook](#), as of October 2020

Regardless of the distance that needs to be covered, shared mobility services are available

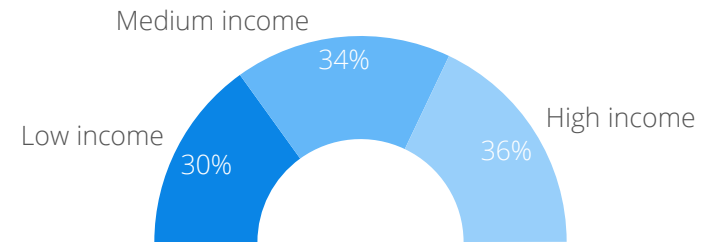


Most of the users of Mobility Services in China are between 25-34 years old

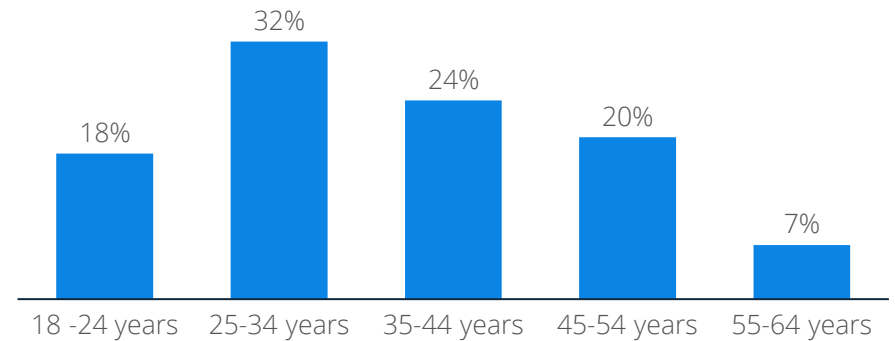
Gender



Income



Age



Hardware

In the Statista Technology Market Outlook, we separate the Hardware market into the segments PC, Server, Storage, Network Infrastructure, and Phones. The Phones segment is especially affected by consumer sales, whereas the Network Infrastructure segment is mainly formed by B2B transactions.

In 2020, the revenue of the Hardware market is projected to reach US\$962 billion. The Phones segment is largest, with US\$472 billion forecast revenues in 2020. China is the biggest market for hardware with an estimated revenue of US\$215 billion in 2020, followed by the U.S. with US\$187 billion.

Looking at the competitive landscape of Hardware markets, the largest players in the PCs segment are Lenovo, Hewlett Packard (HP), and Dell. Samsung, Huawei, and Apple are the major smartphone vendors.

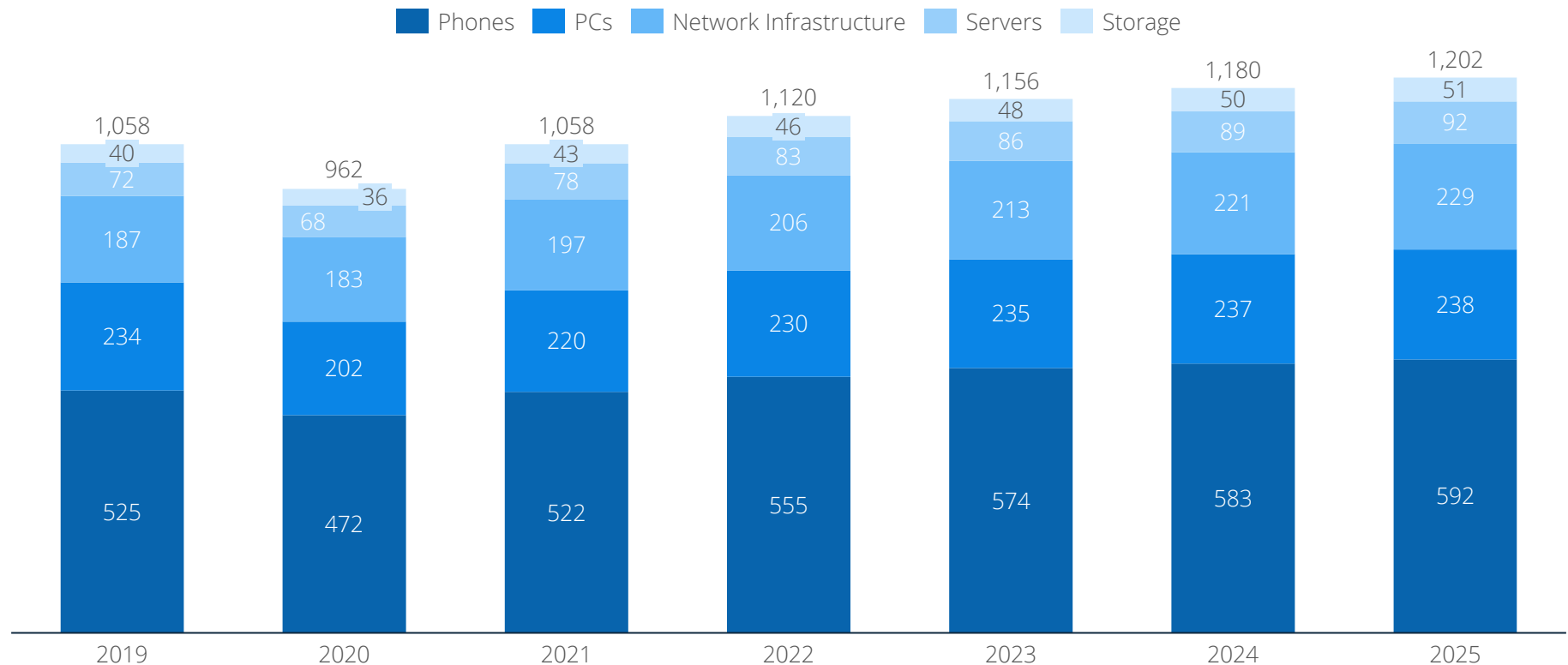
The Hardware market is shaped by various trends such as cloud adoption, 5G, and big data, as well as the increasing need for flexibility and mobility. As digitization progresses, hardware devices are constantly adapted to meet up-to-date standards. For this reason and as seen after the financial crisis of 2008, the Hardware market recovers relatively quickly after economic downturns.



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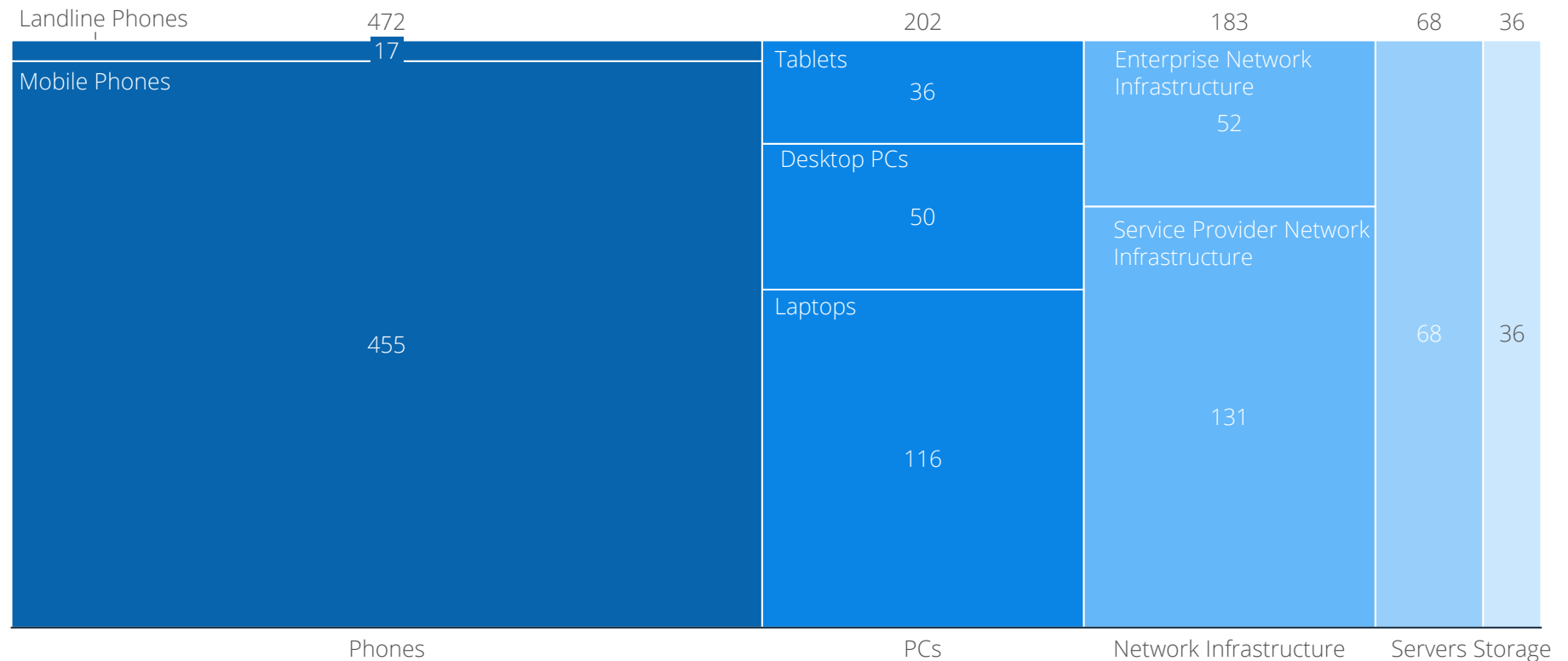
The Hardware market is expected to reach US\$1.2 trillion in 2025 with Phones as the largest segment

Global Hardware market revenue forecast in billion US\$



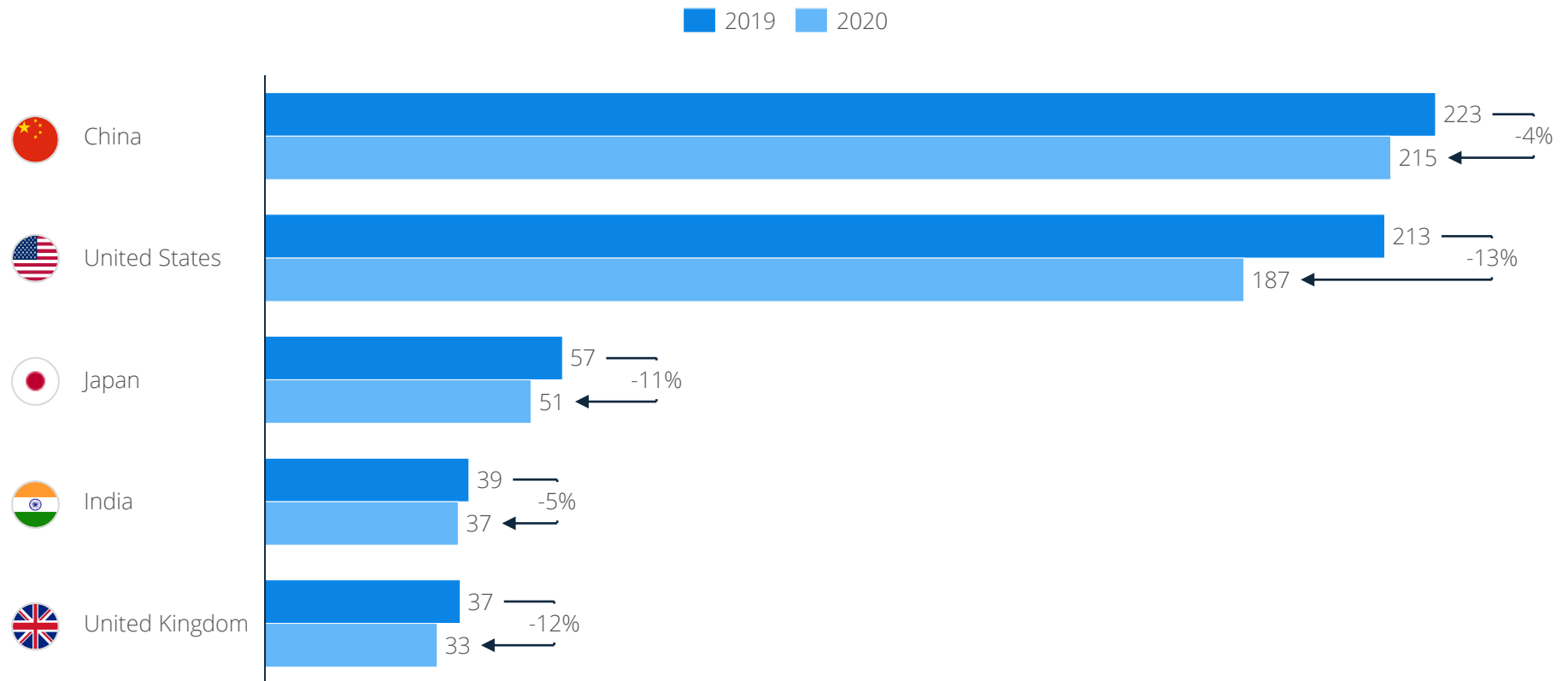
The Mobile Phones subsegment dominates the global hardware market

Global Hardware market revenue in billion US\$ in 2020



In 2020, the Hardware market shrunk in all top 5 countries due to COVID-19

Top 5 Hardware countries by market revenue in billion US\$



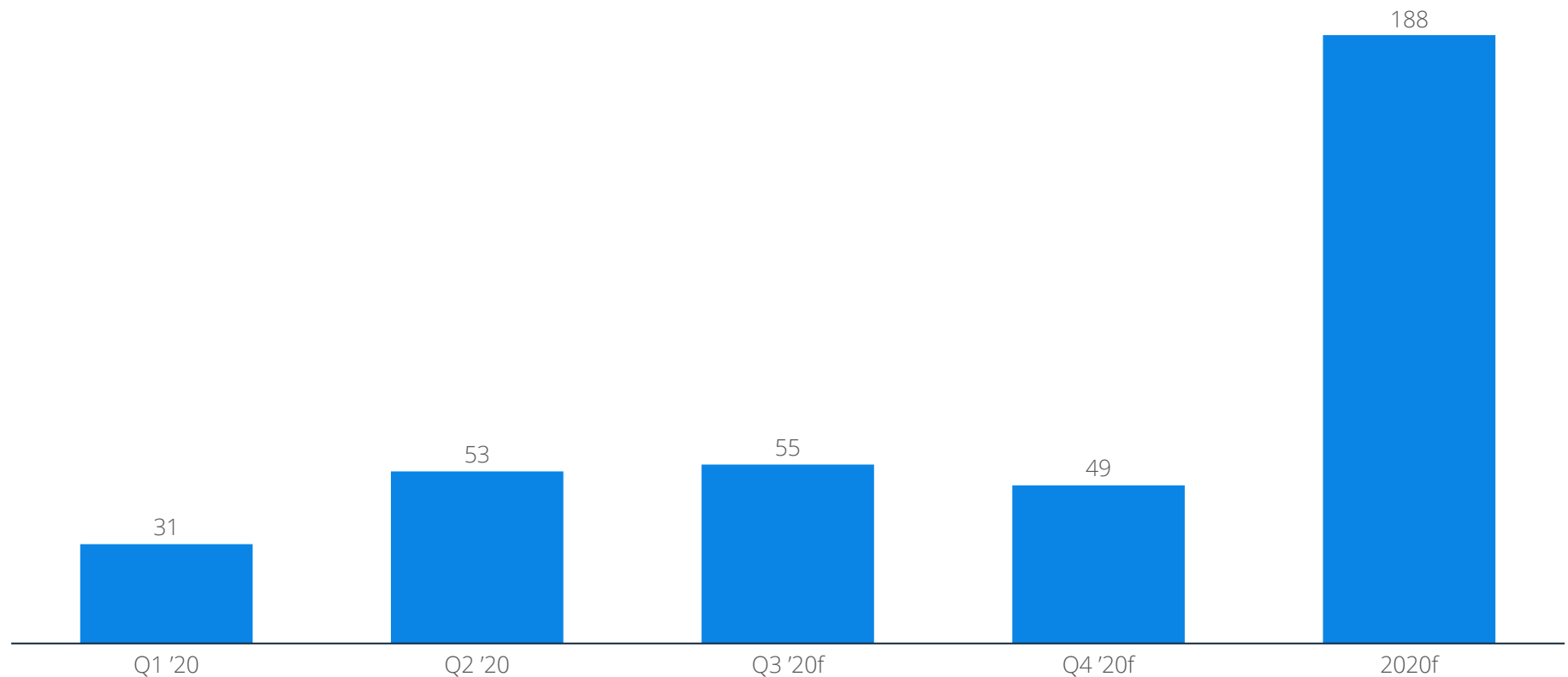
Hardware segments are dominated by consolidated large-scale key players

Selected key players in the Hardware market

PCs	Servers	Storage	Network Infrastructure	Phones
 	 	 	 	 
 	 	 	 	 
 				
				

Notebook shipments are expected to exceed 180 million units in 2020

Notebook unit shipments in millions



Software

In the Statista Technology Market Outlook, we have divided the Software market into the segments Enterprise Software, System Infrastructure Software, Application Development Software, and Productivity Software. The market focusses on software designed to be used in a professional environment whereas some applications may also be used in a personal environment.

In 2020, the revenue of the Software market is projected to reach US\$504 billion. Enterprise Software accounts for almost half of total Software revenues with a projected market volume of US\$195 billion in 2020. The United States constitutes the biggest market for Software with a projected revenue of US\$251 billion in 2020.

Key players are Microsoft, Salesforce, IBM, Oracle, SAP, and Adobe.

Companies' needs for data insights and customer analyses have strongly increased due to digitization and the amount of data collected online.

This development particularly drives the demand for enterprise software, especially business intelligence (BI) software.

Due to market speed and volatility, software investments are shifted to the cloud to be more flexible and independent. The shift from on-site software deployment to software-as-a-service is increasingly relevant and will have to be tackled by a lot of companies in the coming years.

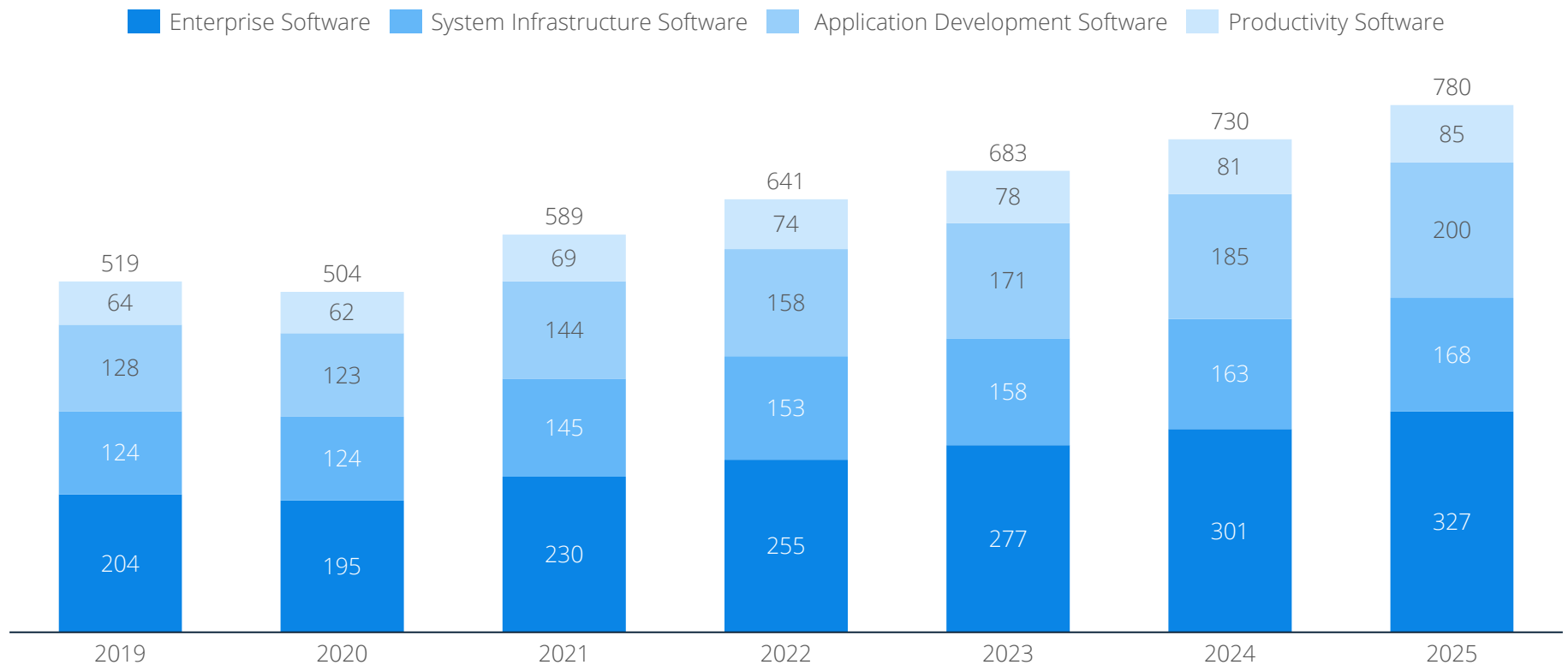


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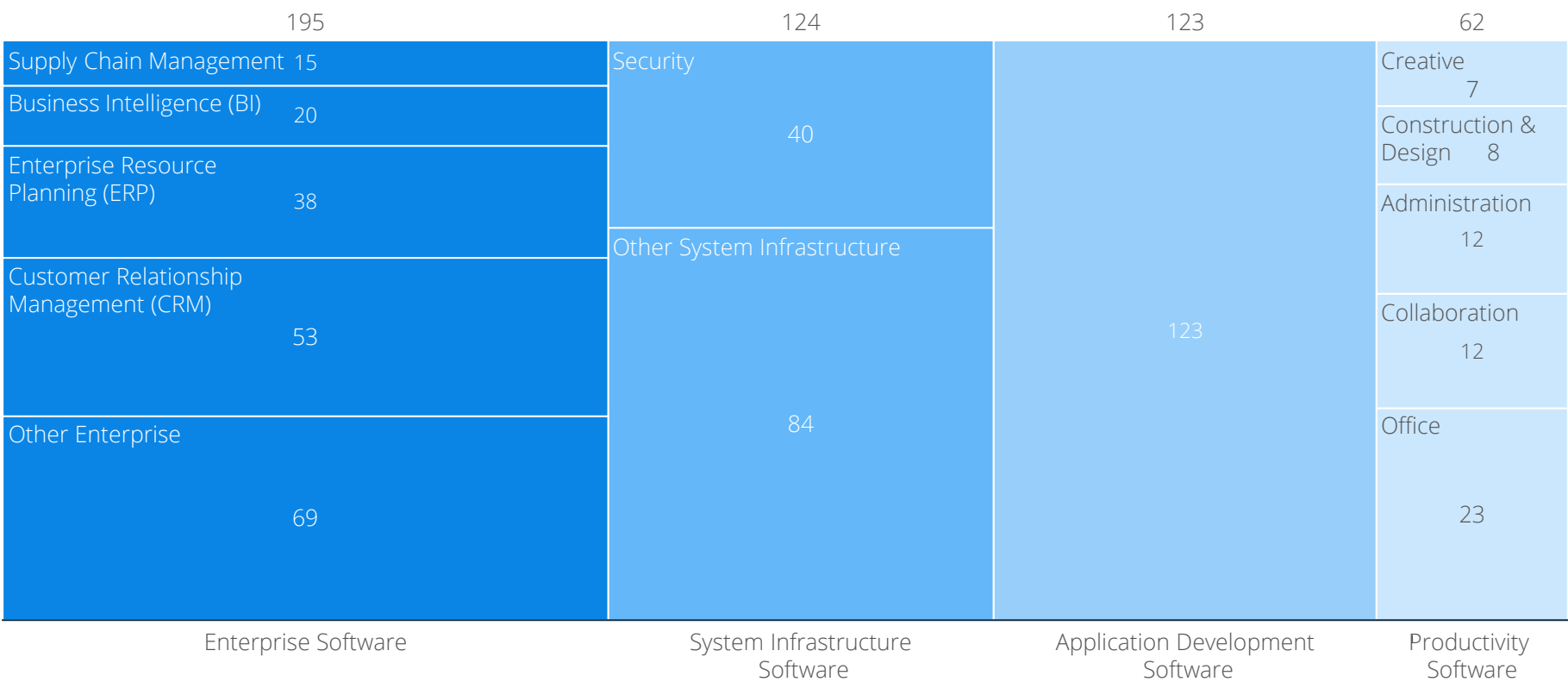
The Software market is projected to reach US\$780 billion in 2025 and is led by Enterprise Software

Global Software market revenue forecast in billion US\$



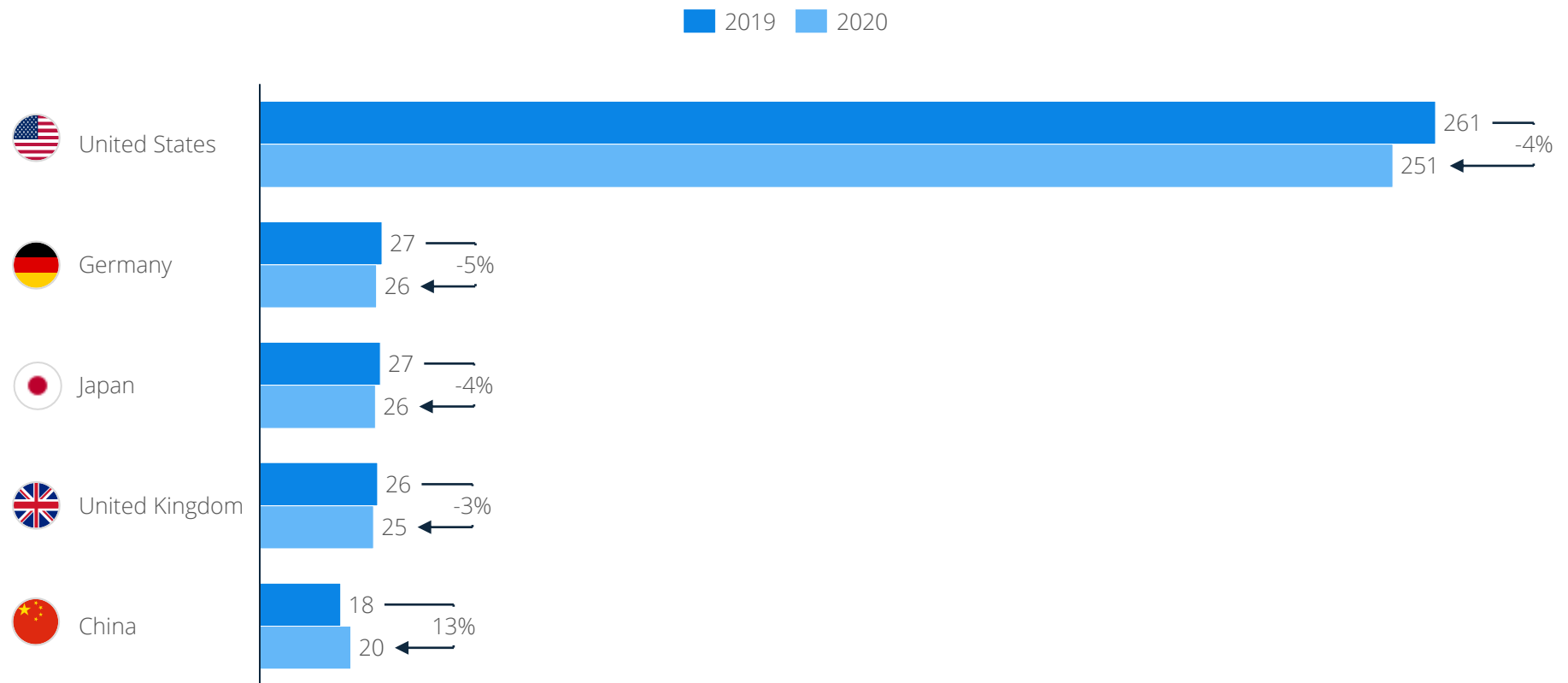
Enterprise Software dominates the Software market with CRM as the largest subsegment

Global Software market revenue in billion US\$ in 2020



In 2020, the Software market is expected to decrease by 4% in revenues in the U.S.

Top 5 Software countries by market revenue in billion US\$



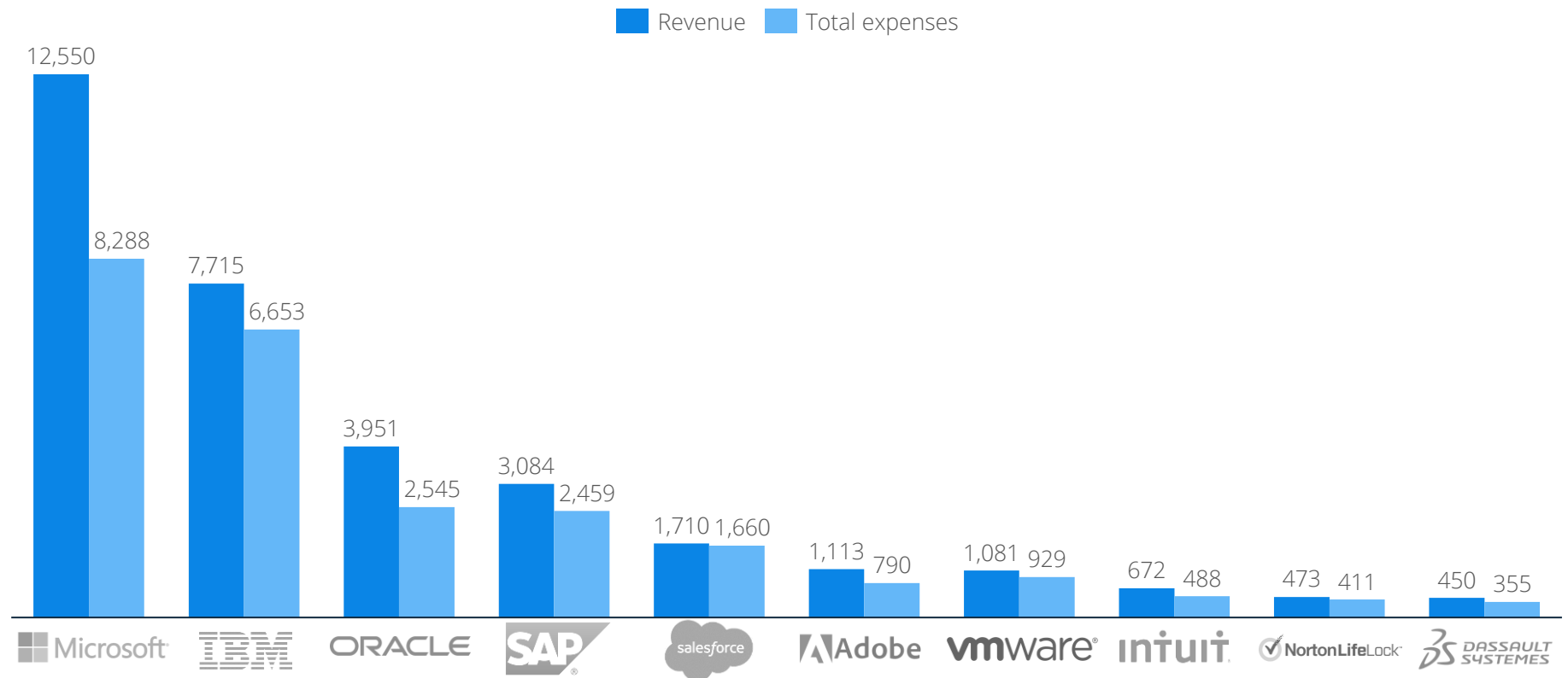
Software segments are dominated by consolidated large-scale key players

Selected key players in the Software market

Productivity Software	Enterprise Software	Application Development Software	System Infrastructure Software
			 
			
			 
			

The largest Software companies also differ widely in terms of revenue and expenses

Revenue and total expenses in billion US\$ in 2019



IT Services

With the ongoing digital transformation and automation of business processes, the IT services market has become more important in the global IT industry.

In the Statista Technology Market Outlook, we divided the IT Services market into the following segments: IT Outsourcing, Business Process Outsourcing, IT Consulting & Implementation, and Other IT Services. We focus exclusively on the professional business environment.

Today, the global IT Services market is estimated at a revenue of US\$927 billion in 2020 and is expected to reach approximately US\$1.2 trillion in 2025. In recent decades, historical key success factors for gaining market shares have changed in this ever-evolving industry. Driven by the growth of software and hardware across the globe, IT Outsourcing is the biggest segment with projected revenues of US\$323 billion in 2020. Players in this market provide resources and specialists, helping companies to

reduce their IT budget and staff as well as bypass the high costs of managing enterprise applications. The leading economies in the IT Services market are the United States with a revenue of US\$342 billion in 2020, followed by Japan with a revenue of US\$286bn in 2020.

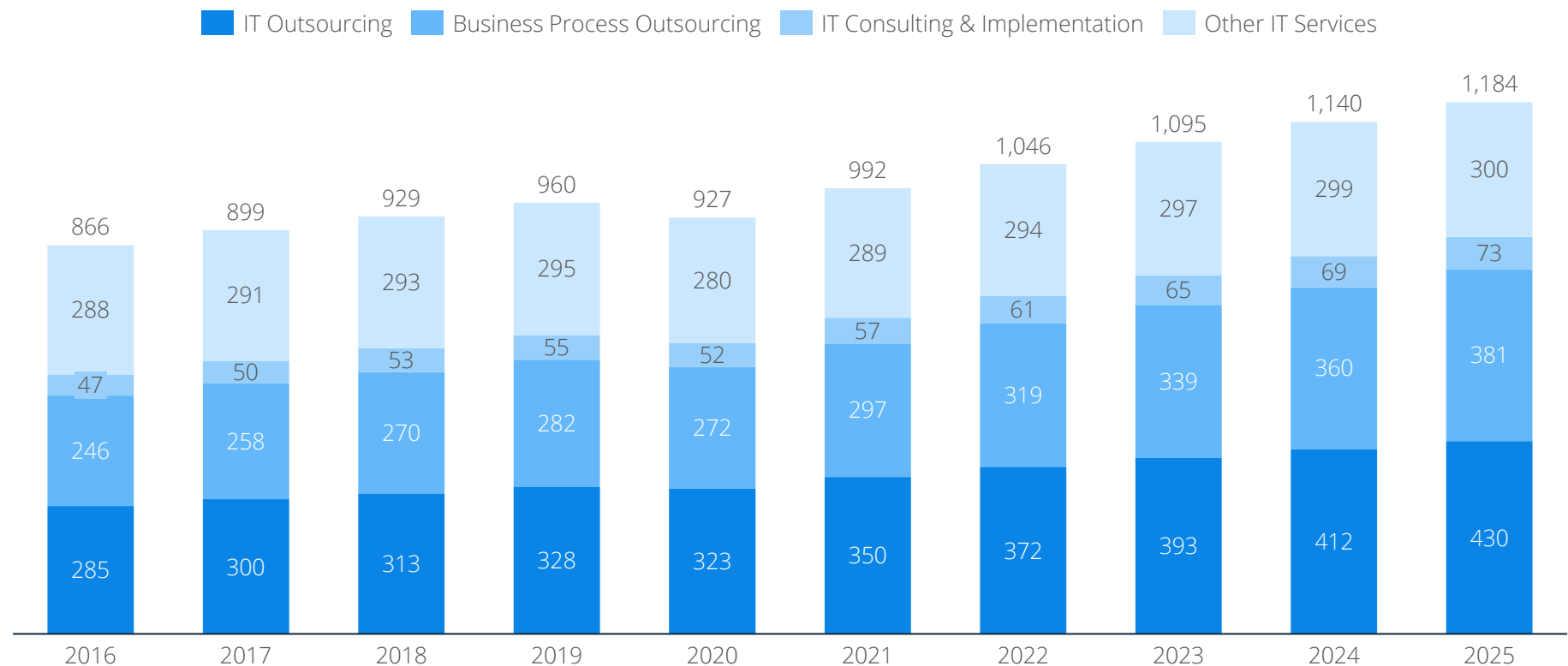
Major players are IBM and Accenture.



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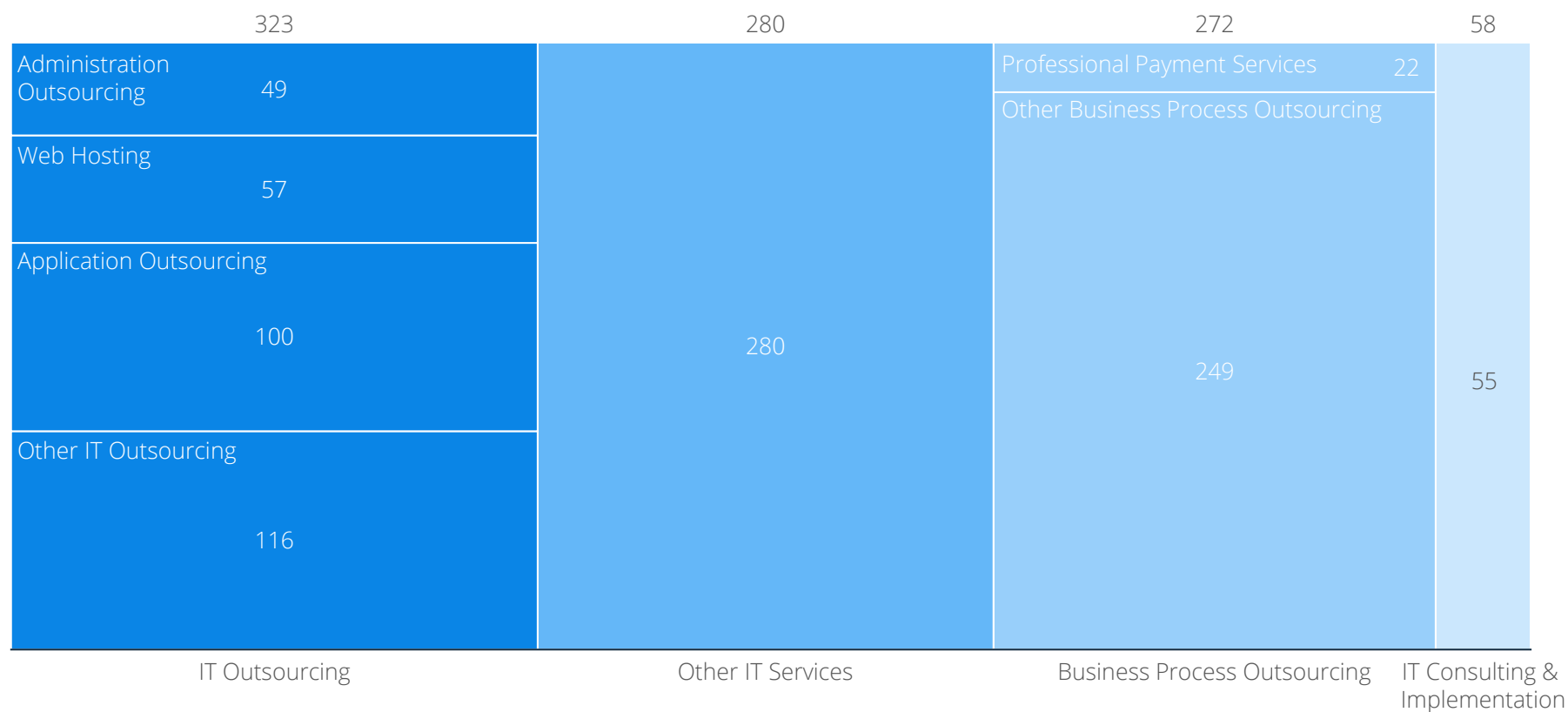
The IT Services market is expected to reach US\$1.2trn in 2025 with IT Outsourcing as the largest segment

Global IT Services market revenue forecast in billion US\$



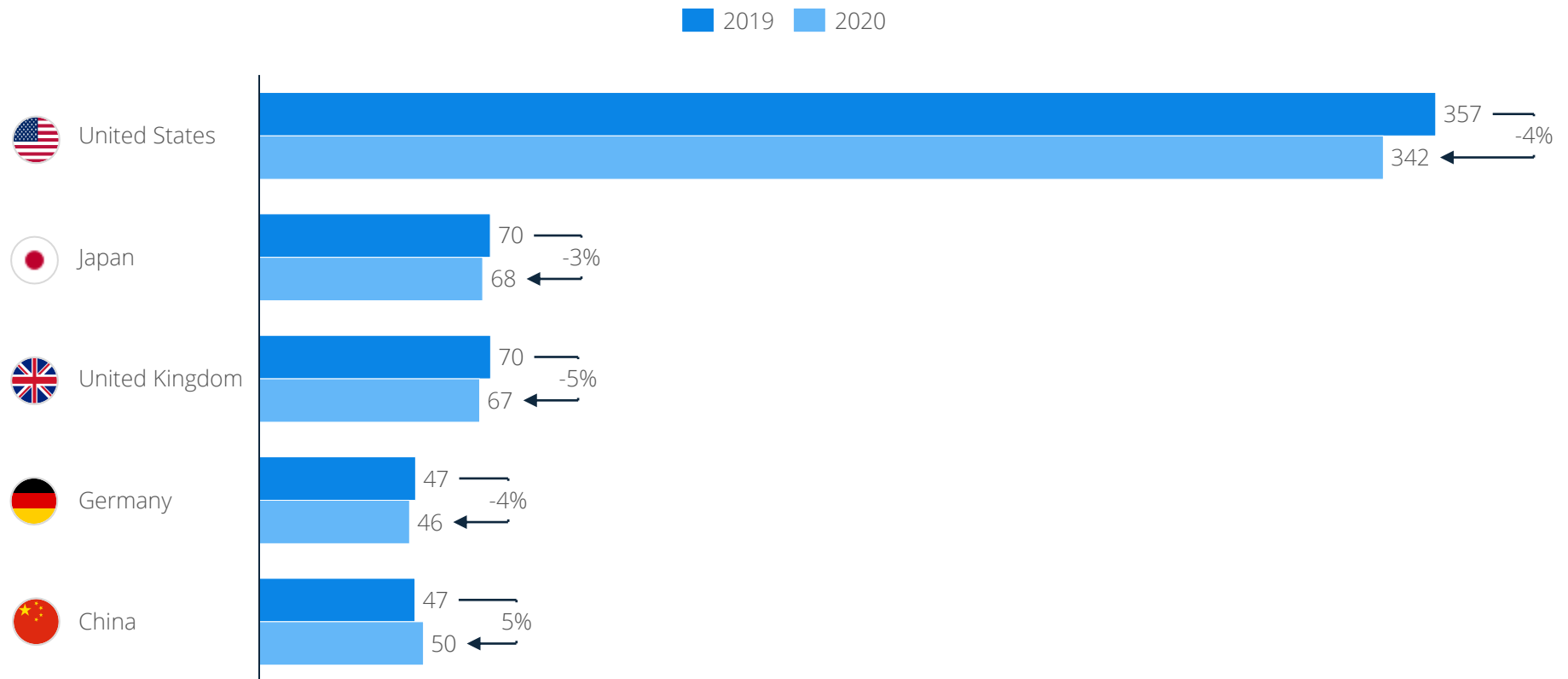
IT Outsourcing is the biggest subsegment in the global IT Services market

Global IT Services market revenue in billion US\$ in 2020



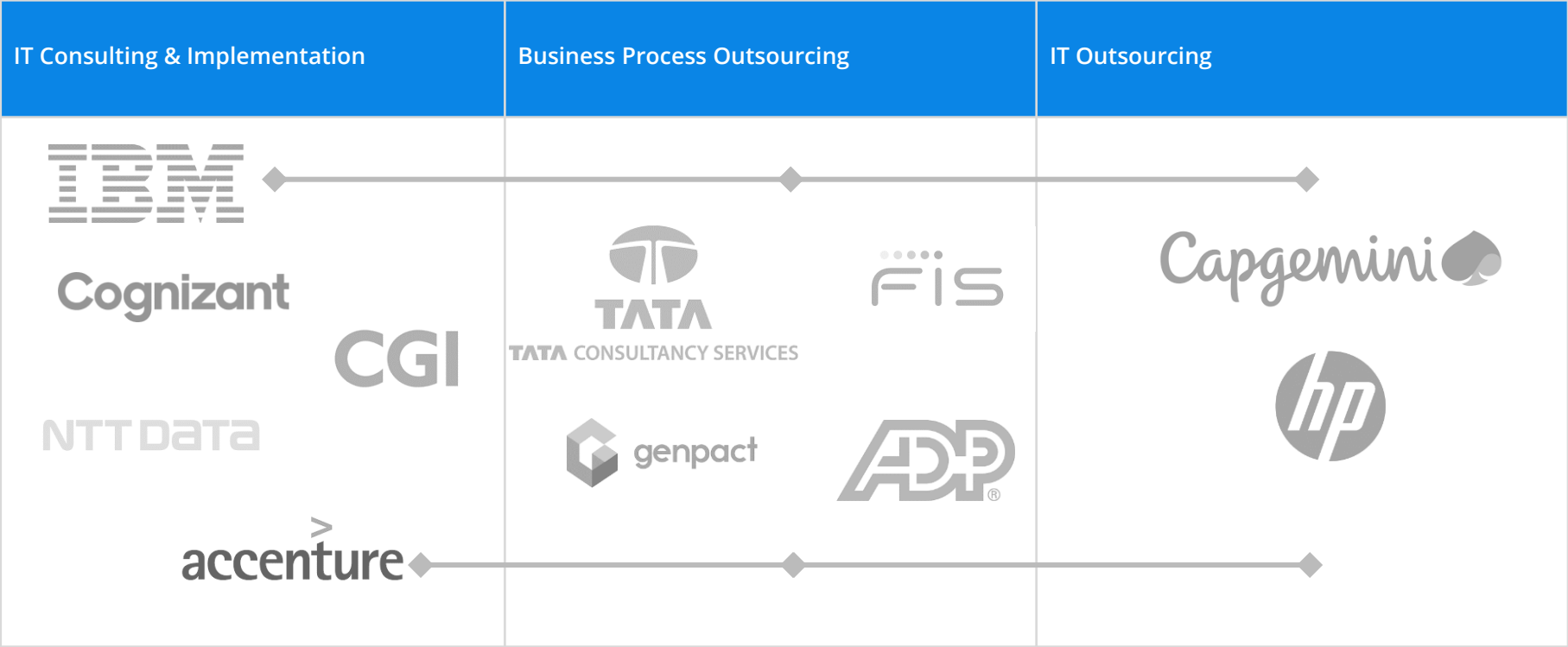
In 2020, the IT Services market shrunk in all top 5 countries except China

Top 5 IT Services countries by market revenue in billion US\$



IT services segments are dominated by consolidated large-scale key players

Selected key players in the IT Services market



Cloud Hosting

The market for Public Cloud represents third-party cloud service providers that deliver computing resources such as servers, applications, and storage capabilities to customers via the internet. These services are remotely managed, enabled, and distributed by large-scale data center service providers. In comparison to a private cloud setting, a public cloud offer is targeted not only to individual organizations, but to many other users and allows for scalability and resource sharing.

In the Statista Technology Market Outlook, the Public Cloud market is segmented into Software as a Service (SaaS), Infrastructure as a Service (IaaS), and Platform as a Service (PaaS) — three service models that build on each other.

In 2020, the revenue of the Public Cloud market is projected to reach US\$95 billion. SaaS is the biggest segment in terms of revenue, followed by IaaS. IaaS and PaaS are included in the following data sets, whereas

SaaS revenues are not yet considered.

The development in the Public Cloud market is driven by the leading American players Amazon Web Services, Microsoft Azure, and Google, followed by the Chinese player Alibaba Cloud. The U.S. are first movers in terms of cloud adoption, with China and the United Kingdom following suit.

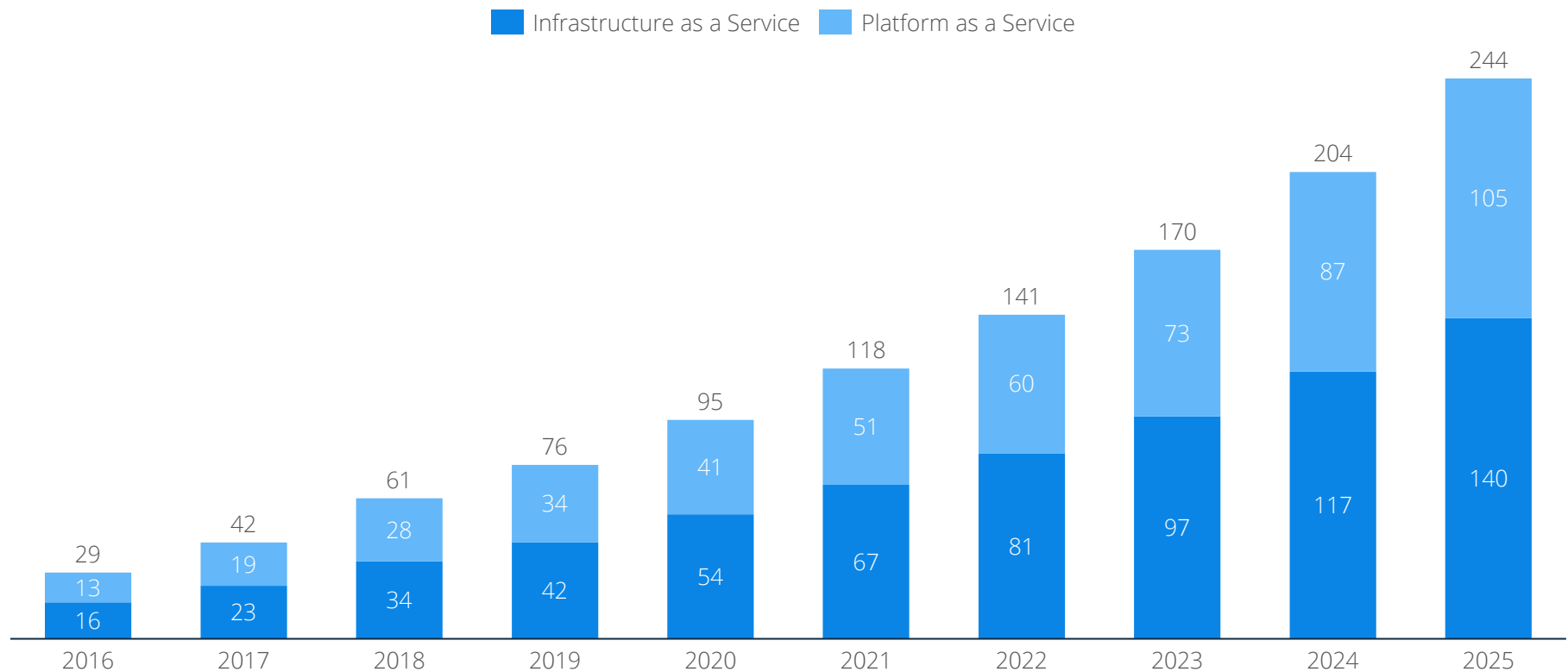


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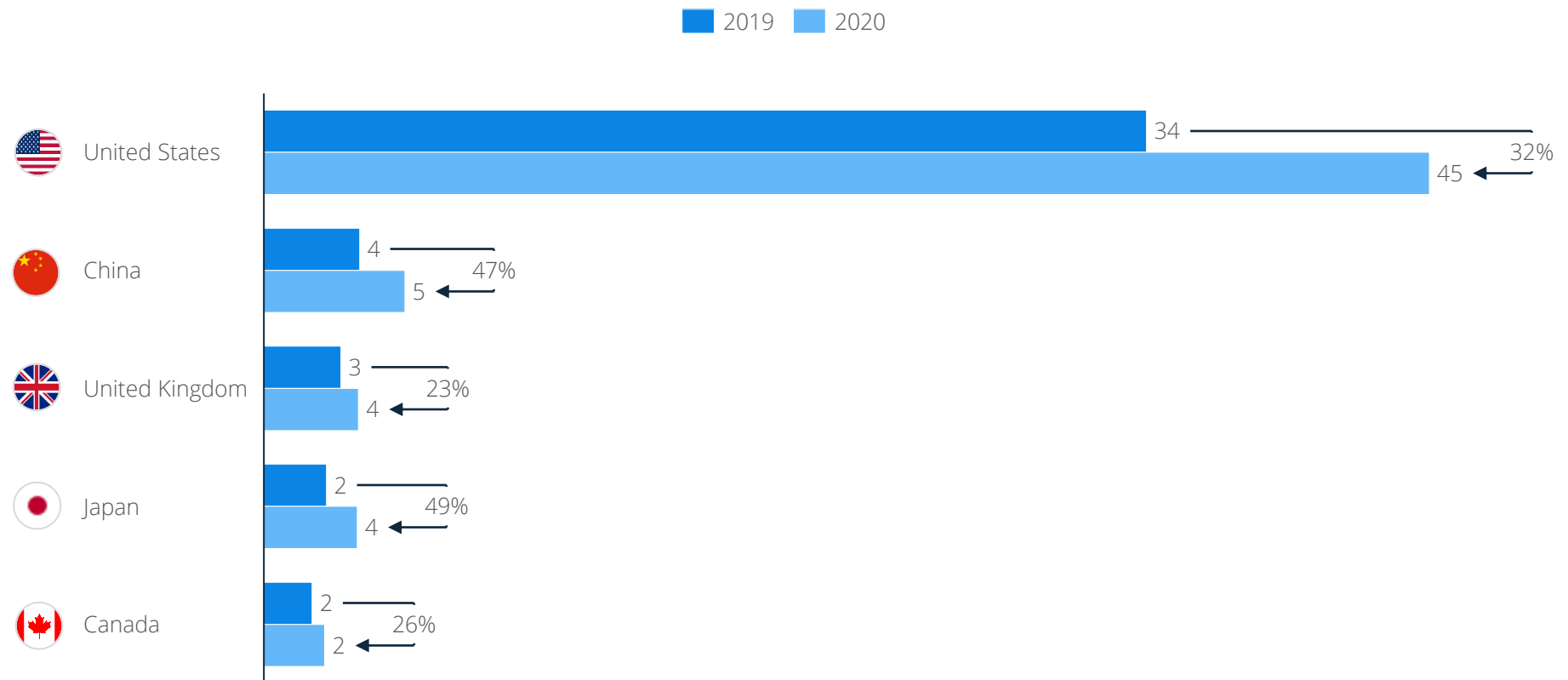
The global Public Cloud market is expected to reach US\$244 billion in 2025

Public Cloud market revenue forecast in billion US\$



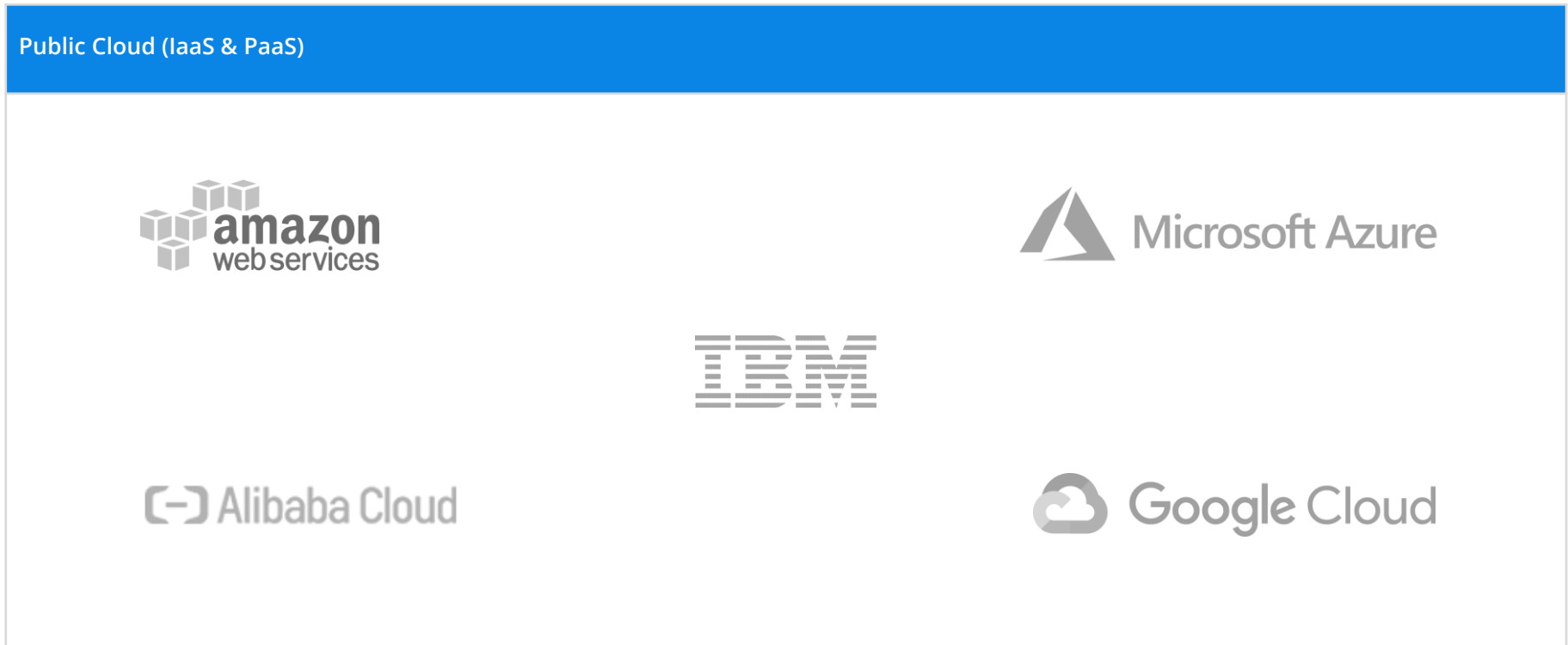
The U.S. has by far the biggest Public Cloud market with US\$45 billion in 2020

Top 5 Public Cloud countries by market revenue in billion US\$



The Public Cloud market is dominated by consolidated large-scale key players

Selected key players in the Public Cloud market



Consumer Electronics

The Consumer Electronics market is subject to constant challenges, innovations, and transformations. Yet the exceptional growth it experienced in the past decade has come to an end.

In the Statista Consumer Market Outlook the market is divided into the following five segments: Telephony, Computing, TV, Radio & Multimedia, TV Peripheral Devices, and Drones.

Overall, Consumer Electronics generated US\$1 trillion revenues in 2019. Various market drivers influence the Consumer Electronics market. First and foremost, smartphone penetration and smart home penetration have a crucial impact. Smartphones generate the highest revenues in the market and are pioneers for new technologies such as virtual reality and smart home. The trend towards a smart and connected home is constantly pushing new devices into the market and as a result also driving otherwise stagnating sales.

Key players such as Apple and Samsung have an important role in the Consumer Electronics market as they shape the market through constant innovation. Yet competition in the stagnating market is getting fiercer with fast growing Chinese manufacturers entering the market.

The following trends currently shape the market and are the industry's answer to declining growth rates: digital ecosystems, virtual and augmented reality, shy technology, and OLED displays.

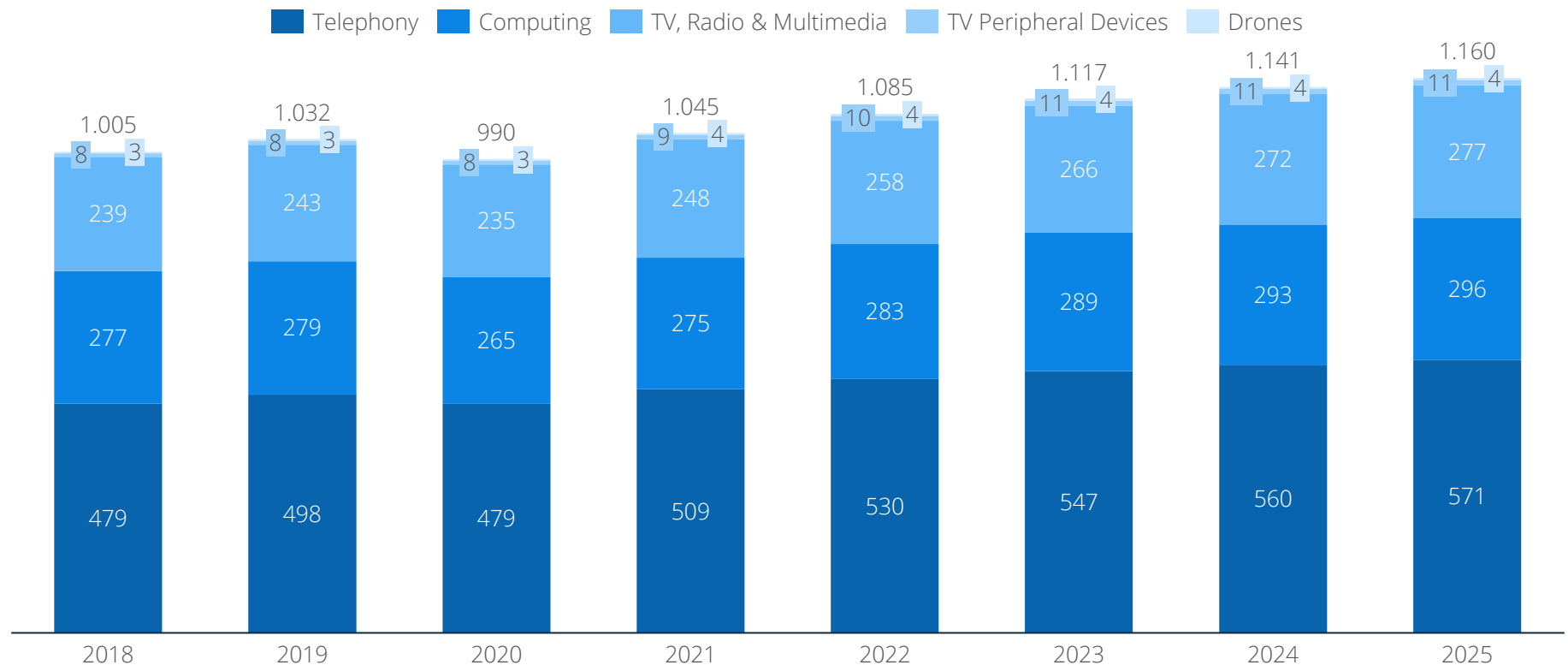


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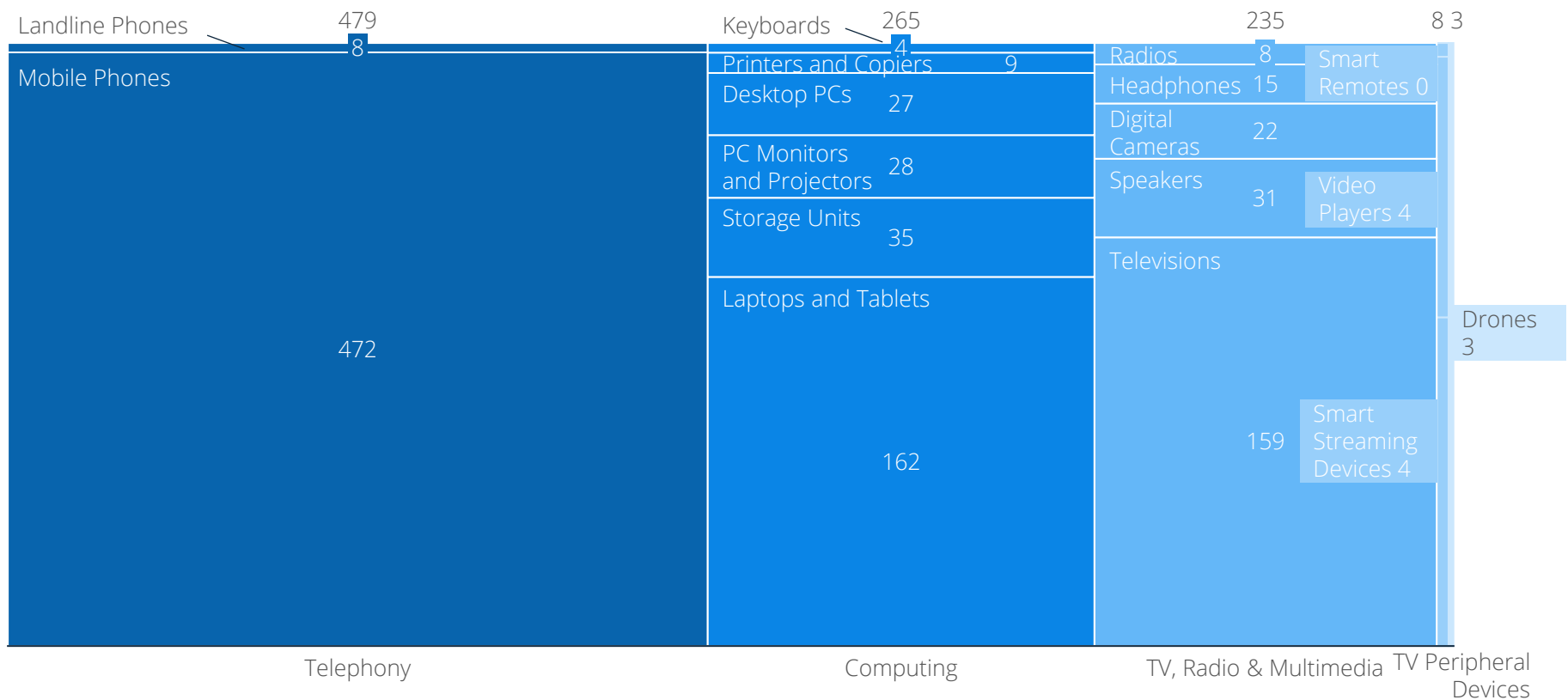
Consumer Electronics market to reach US\$1.2 trillion in 2025 with Telephony as the largest segment

Global Consumer Electronics revenue forecast in billion US\$



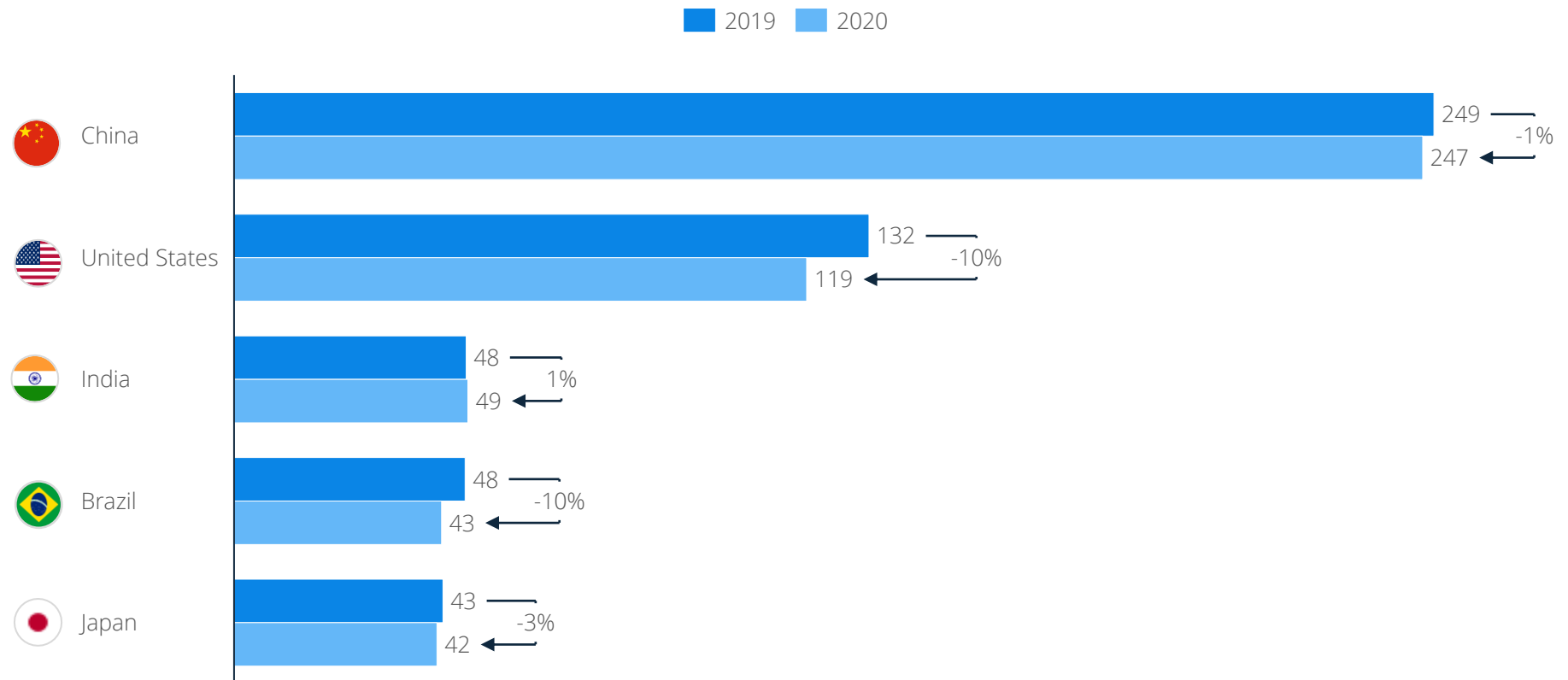
The Telephony segment dominates the global Consumer Electronics market

Global Consumer Electronics market revenue in billion US\$ in 2020



Consumer Electronics in the U.S. will witness a COVID-19 related revenue loss of 10%

Top 5 Consumer Electronics countries by market revenue in billion US\$



With US\$65bn in the last quarter, Apple has the highest sales among Consumer Electronics companies

Company		SAMSUNG	SONY	Panasonic
Sales, latest quarter	US\$64.7bn ¹	US\$59.1bn ²	US\$16.5bn ³	US\$16.0bn ⁴
Key brands	 iPhone  MacBook  iPad  iMac  WATCH	Samsung GALAXY	 KONICA MINOLTA 	LUMIX Technics

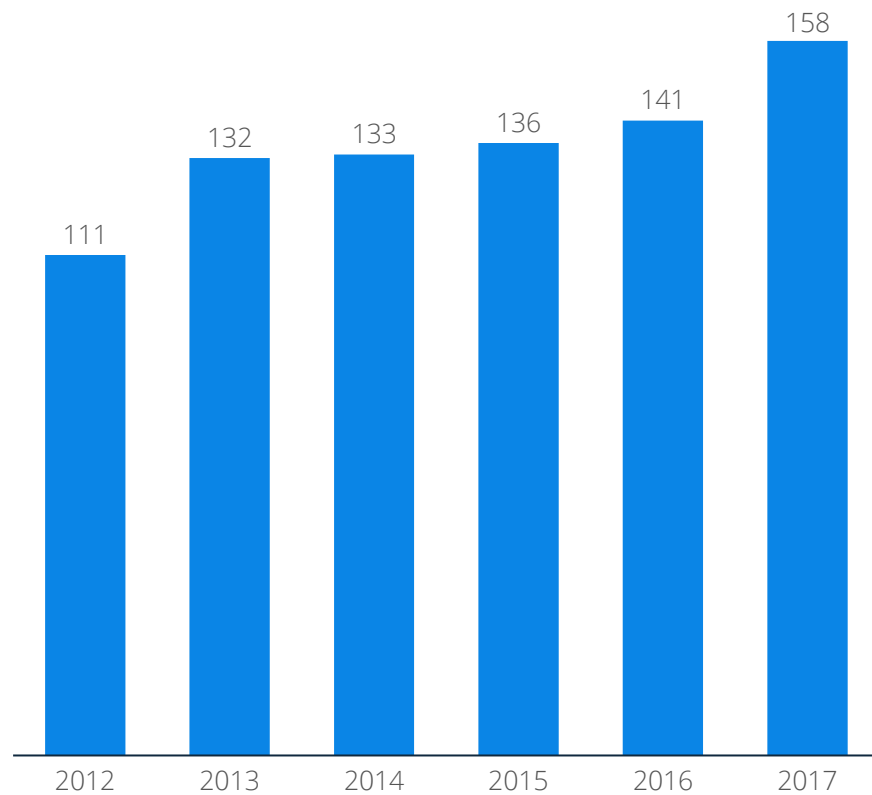
1: Q3 '20, as of September 26, 2020 2: Q3 '20, as of September 30, 2020; Converted from KRW to US\$ exchange rate: KRW-US\$ 0.00088, as of October 30, 2020 (Oanda) 3: Q3 '20, as of September 30, 2020; Converted from JPY to US\$ exchange rate: JPY-US\$ 0.0096, as of October 30, 2020 (Oanda) 4: Q2 '20, as of October 29, 2020-fiscal year ends March 31; Converted from JPY to US\$ exchange rate: JPY-US\$ 0.0096, as of October 29, 2020 (Oanda)

Sources: [Statista Consumer Market Outlook](#), Apple, Samsung, Sony, Panasonic

Foxconn is the world's largest contract electronics manufacturer, producing for all major tech companies

FOXCONN[®]

Foxconn global revenue in billion US\$

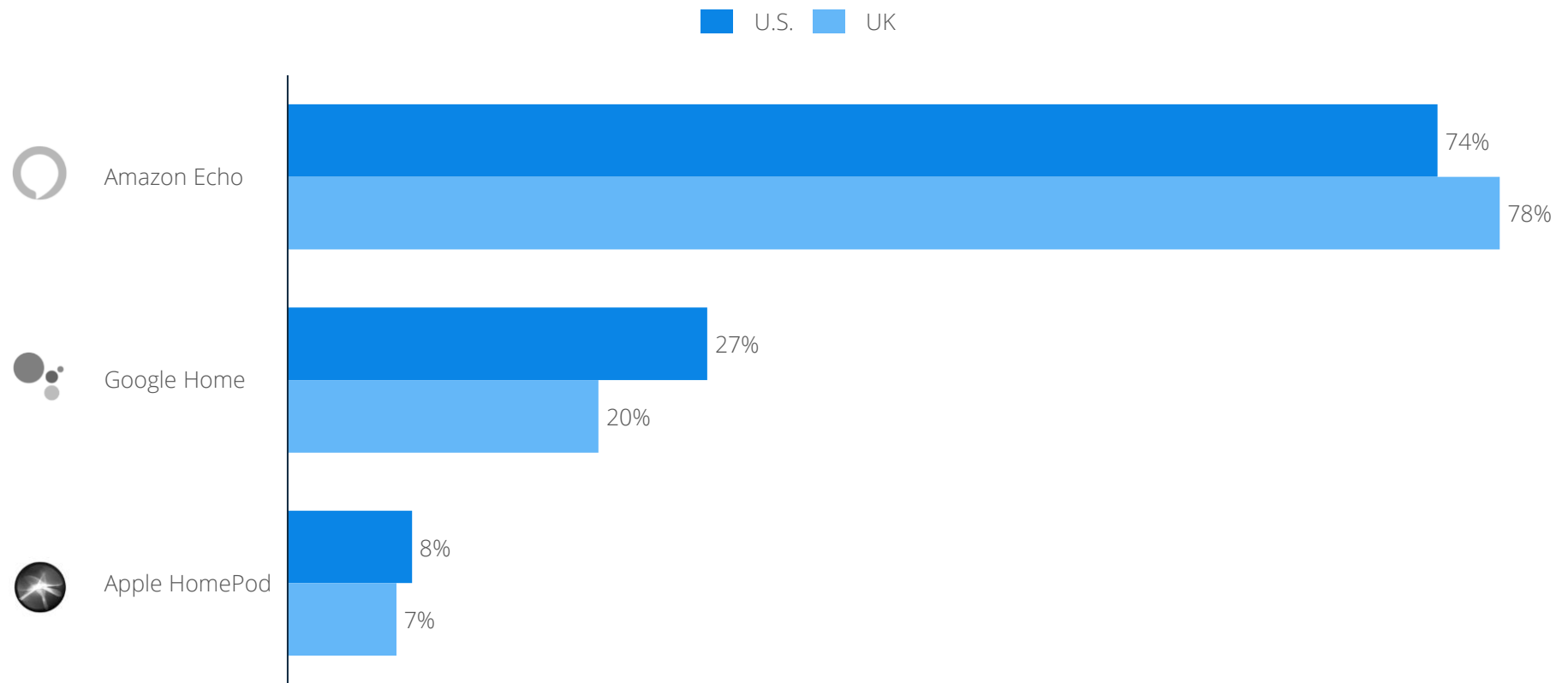


Foxconn clients



Amazon Echo is by far the most used smart speaker in the U.S. and the UK

Most frequently used smart speaker models



"Do you own Smart Home devices i.e. devices that you can control via a smartphone/an internet connection?" Multi Pick; n=64,358 "Which smart speaker with an integrated virtual assistant do you own?" Multi Pick; n=64,358
Sources: [Statista Global Consumer Survey](#), as of April 2020

Digital Health
Market is
coming soon as
part of the
Statista Digital
Market Outlook

Digital Health

The Digital Health market covers a broad scope of technologies from mobile health apps to connected wearable devices to telemedicine. These technologies provide users with the tools necessary for making more thoughtful and data-driven decisions concerning their health and well-being. Products and services emerging in this market enable millions of people globally to monitor and record their health conditions in a more efficient and user-friendly manner. They can track physical activities, identify early signs of developing diseases, and even help to cope with psychological issues.

The ubiquitous use of the internet and smartphones along with the shifting tendency towards a healthier lifestyle and well-being have sparked the growth of this market. The COVID-19 pandemic considerably contributed to this trend.

In the Statista Digital Market Outlook, the market Digital Health will cover

two broad segments: Digital Fitness & Well-being and eHealth. Fitness & Well-being covers devices including Fitness Wearables and Smart Scales, as well as Apps. eHealth encompasses eHealth Devices, eHealth Apps, Online Pharmacy, and Online Doctor Consultations. We focus solely on the consumer perspective.



Sofia Zavialova

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Our new market Digital Health with its six sub-segments will be launched in Q1 '21

Digital Health Market is coming soon as part of the Statista Digital Market Outlook

Segments and sub-segments of the upcoming market Digital Health

Digital Fitness & Well-being

- Digital Fitness & Well-being Devices
 - Smartwatches
 - Fitness/Activity Tracking Wristwear
 - Smart Scales
- Digital Fitness & Well-being Apps
 - Fitness Apps
 - Nutrition Apps
 - Meditation Apps



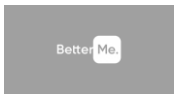
eHealth

- eHealth Devices
 - Blood Pressure Meters
 - Fever Meters
 - Glucose Meters
 - Social Alarms
- eHealth Apps
 - Contraception & Fertility Apps
 - Medication Checkers Apps
- Online Pharmacy
- Online Doctor Consultations

Digital Health is becoming highly competitive with many new players entering the scene

Digital Health Market is coming soon as part of the Statista Digital Market Outlook

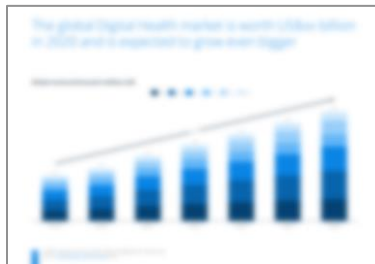
Selected key players in Digital Health

Fitness & Workout	eHealth	Online Doctor Consultations	Ambient Assisted Living	Online Pharmacy
            	          	            	    	      

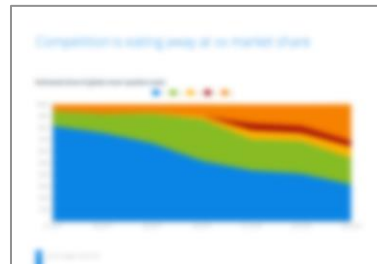
Our Digital Health market will provide current information on key metrics and trend topics

Digital Health Market is coming soon as part of the Statista Digital Market Outlook

Market size & growth



Competitive density



Key players



User demographics



App segmentation



Innovation



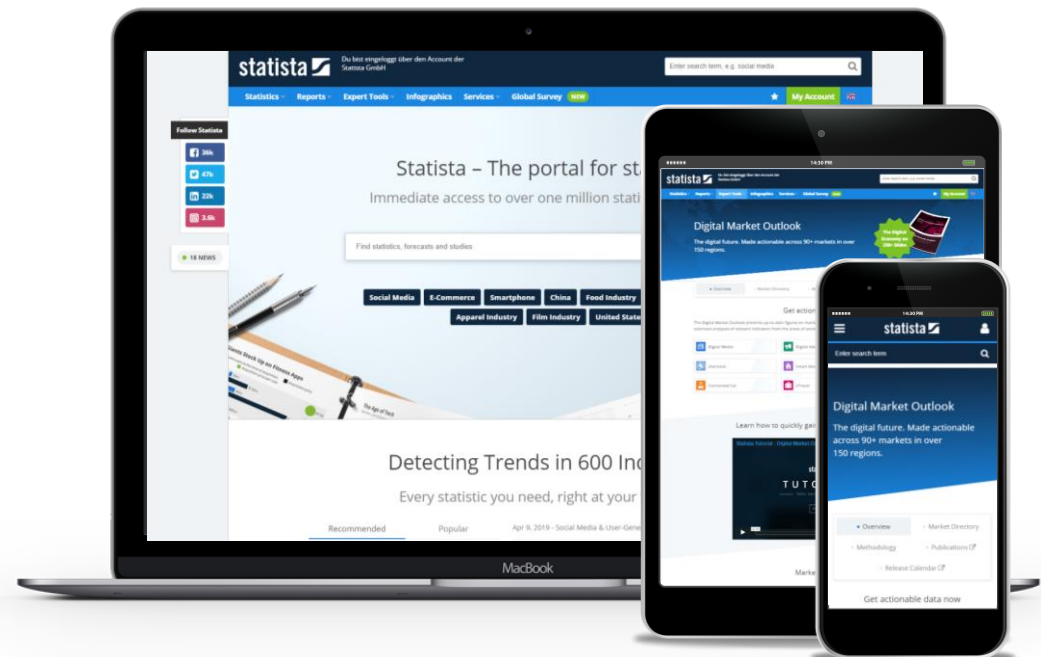
Market by segment



Consumer behavior



Our products



About the Statista Digital Market Outlook

Included
in the
Corporate
Account

80+

markets

150+

countries &
regions

7

years (2017–2025)

30,000+

interactive statistics

The **Digital Market Outlook** presents up-to-date figures on markets of the digital economy. The comparable key figures are based on extensive analyses of relevant indicators from the areas of society, economy, and technology.

What is the size of the eCommerce Fashion market in Spain?
How much is spent on Social Media Advertising in India?

The answers to these and many more questions can be found in the Statista Digital Market Outlook. It provides forecasts, detailed market insights, and key indicators for the digital economy.



Seven digital verticals: eCommerce, Smart Home, Digital Media, eServices, FinTech, Digital Advertising, eHealth



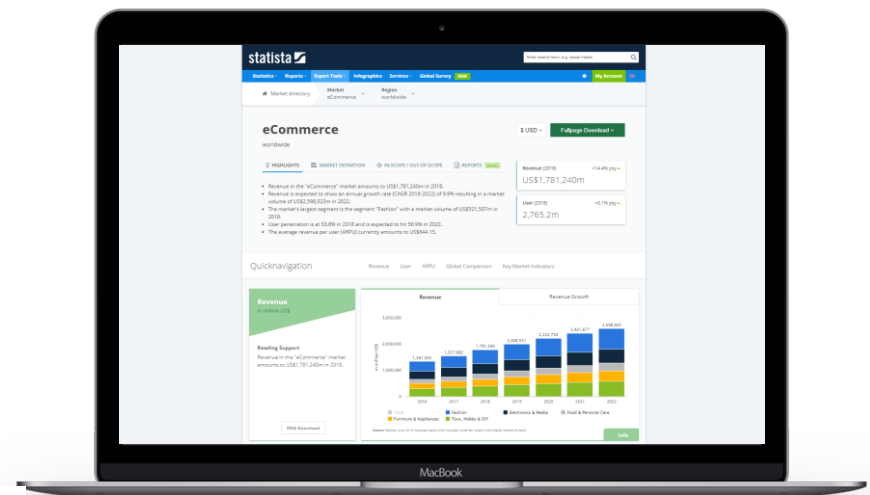
Direct access & downloads, fully integrated into the Statista database



Market insights, forecasts, and key performance indicators



Outlook reports with segment-specific topics (top companies, trends, deep dives)



Find out more at: www.statista.com/outlook/digital-markets

About the Statista Advertising & Media Market Outlook

Included
in the
Corporate
Account

13+

markets

46+

countries &
regions

8

years (2017–2025)

15,000+

interactive statistics

The **Advertising & Media Outlook** presents up-to-date figures on digital and traditional advertising & media markets. The comparable key figures are based on analyses of indicators from the society, economy, and technology.

What is the size of the Traditional TV Advertising Market in Europe?
How much is spent on Digital Music in China?

The outlook answers these and many more questions with detailed forecasts, market insights, and key indicators.



Eight advertising segments: TV & Video Advertising, Search, Social Media, Out-of-Home, Digital Banner, Print, Audio, Digital Classifieds



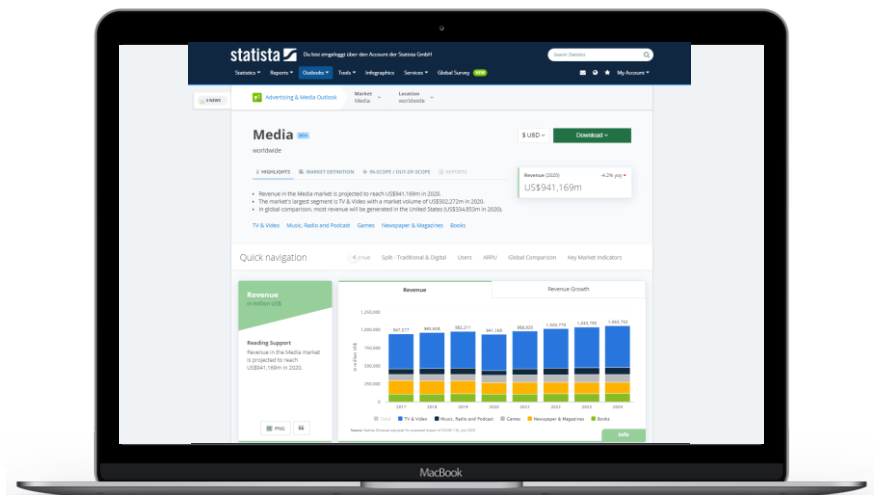
Five media segments: TV & Video, Music, Radio and Podcast, Games, Newspaper & Magazines, Books



Direct access & downloads, fully integrated into the Statista database



Market insights, forecasts, and key performance indicators



Advertising



Media

Find out more at: www.statista.com/outlook/advertising-media

About the Statista Mobility Market Outlook

Included
in the
Corporate
Account

Everything you need to know about the future of mobility!

The **Mobility Market Outlook** combines key mobility topics and provides relevant figures and forecasts of both the automotive market and mobility services on a global scale. We understand, measure, and predict market behavior and share the results with you.

Passenger Cars:

- Over 140 relevant car makes (brands)
- 12 international car classes

Motorcycles:

- Over 30 leading motorcycle makes (brands)

Mobility Services:

- Car Rentals, ride hailing & taxi, car- and bike-sharing,
- Bus, train, and plane tickets

Travel & Tourism:

- Hotels and vacation rentals
- Cruises and package holidays



Find out more at: <https://www.statista.com/outlook/mobility-markets>

About the Statista Technology Market Outlook

Included
in the
Corporate
Account

Get actionable data now

The **Technology Market Outlook** constitutes an intuitive tool and provides you with valid and comparable information about different technology markets, which can be processed immediately.

The Technology Market Outlook gives a clear, structured, and transparent overview of the key performance indicators, e.g., revenues and market shares, of the most important technology markets.



Hardware



Cloud Hosting



Software



Services



Communication Services



New Tech

COMING SOON

COMING SOON



150 countries and 24 regions



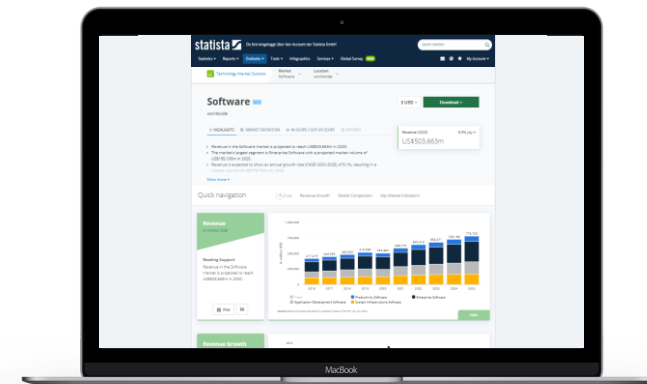
30+ of the most relevant technology markets



The most important KPIs



Market developments and forecasts up to 2025



Find out more at: www.statista.com/outlook/technology-outlook

About the Statista Consumer Market Outlook

Included
in the
Corporate
Account

200+

markets

150

countries and regions
years (2012–2025)

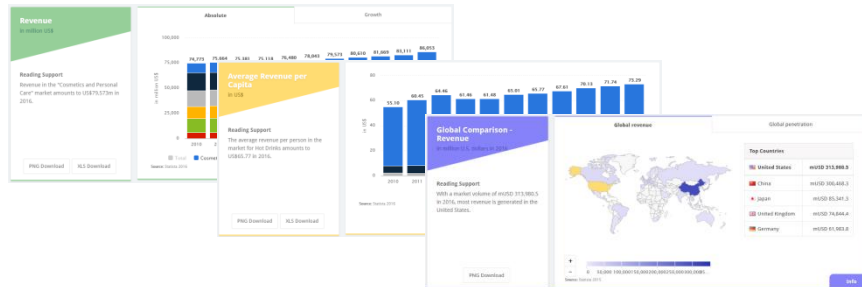
12

50,000+

interactive statistics

The **Consumer Market Outlook** presents the key performance indicators sales, revenues, and prices of the most important consumer markets globally. Our specialized analysts' market calculations are based on data from validated sources.

- Revenues, volume sales, prices, and forecasts
- More than 200 product categories in up to 150 countries
- Covering the period 2012 to 2023



Accessories



Alcoholic Drinks



Apparel



Consumer Electronics



Beauty & Personal Care



Eyewear



Food



Footwear



Furniture



Home & Laundry Care



Hot Drinks



Household Appliances



Non-Alcoholic Drinks



OTC Pharmaceuticals



Luxury Goods



Tissue & Hygiene Paper



Tobacco Products



Toys & Hobby

Find out more at: www.statista.com/outlook/consumer-markets

About the Statista Global Consumer Survey 2020

Included
in the
Enterprise
Account

50+

topics &
industries

55

countries &
regions

6,500+

int. brands

700,000+

interviews

The **Statista Global Consumer Survey** offers a global perspective on consumption and media usage, covering the offline and online world of the consumer. It is designed to help marketers, planners, and product managers understand consumer behavior and consumer interactions with brands.

- Cross-tabulation
- Customized target groups
- Trend and country comparisons
- Export in Excel (CSV) or PowerPoint format



Marketing &
Social Media



Finance & Insurance



eCommerce &
Retail



Health



Food & Nutrition



Housing & Household
Equipment



Internet & Devices



Travel



Media & Digital Media



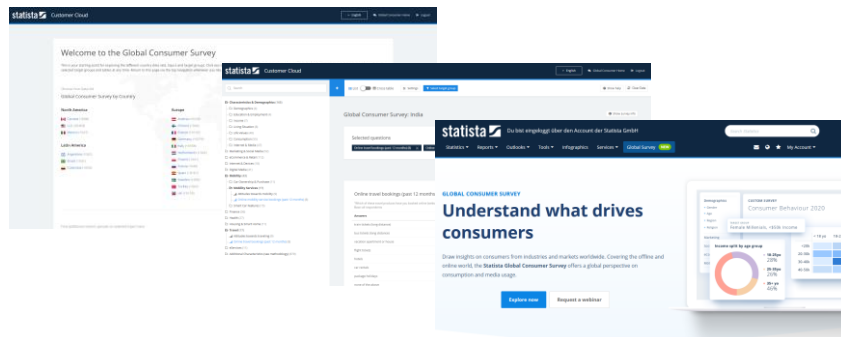
Services & eServices



Mobility



Characteristics &
Demographics



Find out more at: www.statista.com/customercloud/global-consumer-survey

About the eCommerceDB

The toolbox for all eCommerce-relevant questions

eCommerceDB.com offers direct access to URL-related revenue information together with forecasts, customizable top, country, region and category rankings, KPI analyses, and extensive eCommerce-relevant contact information to over 20,000 online stores.



In-depth analysis for over 20,000 online store URLs



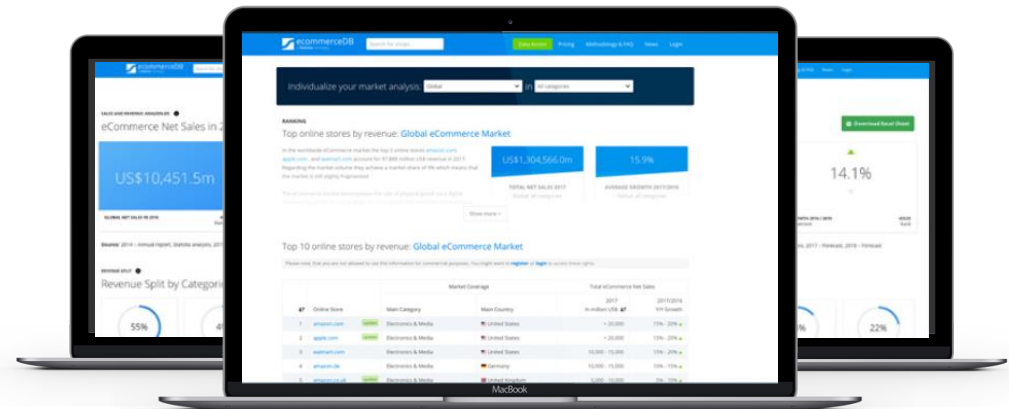
Adjustable top, category, country & region rankings



Download shop profiles for seamless processing



Direct contact to our eCommerce analysts



Find out more at:



eCommerceDB

TEL

+49 40 688 93 12 51

E-MAIL

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About the Statista CompanyDB

The Company Analytics Platform

The Company Database provides information on more than 1.5 million listed and privately held companies and contains the most important company key figures as well as in-depth analyses. Additionally, we offer a wide range of extra KPIs for listed companies. Use the Company Database as a starting point for your further market assessment. It is also the perfect tool for a quick research on basic data and provides valuable insights into foreign markets



More than 180 countries & regions covered



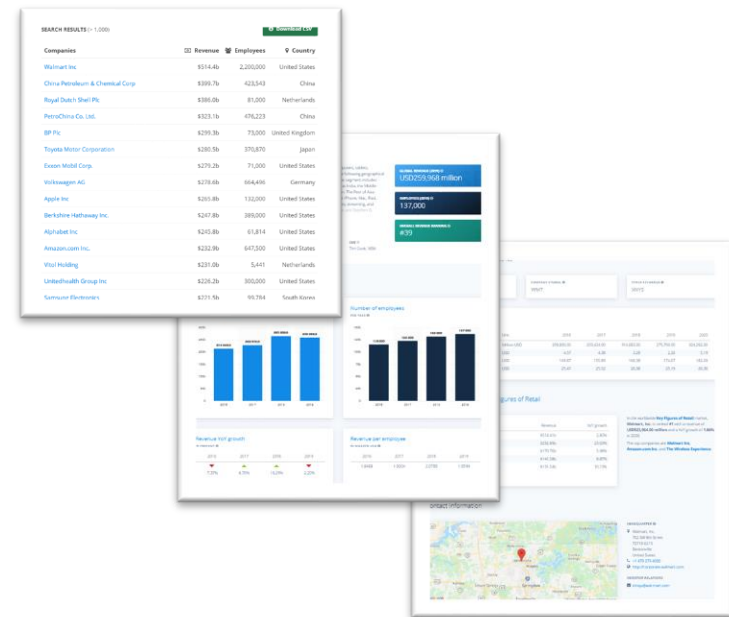
Adjustable industry, country & region rankings



In-depth information on over 1.5 million private companies and more than 40,000 listed companies



Analyze your competitors and your industry



Find out more at: <https://www.statista.com/search/?companies>

About Statista Research and Analysis

More than just statistics – Your individualized solutions

Statista Research & Analysis offers market research as well as research and analysis services for your individual needs and exclusively for you and your success.

We are one of the leading partners for answering data-related questions on the basis of high methodical competence and deep expertise. Thereby we are producing individualized solutions that help you to better understand your markets, customers, and data by:



Market Research - For you we find firsthand answers to your questions about people, brands, products and prices.



Market-/ and Competitor Analyses - For you, we take a closer look to the drivers of your market as well as the relevant competitors and their strengths and weaknesses.



Forecasts & Predictions - For you we build meaningful and reliable market models on the basis of which we can identify trends and predict market developments and market potential.



Data Analytics - For you, we collect, structure and analyze large data in order to create a valid base for your decisions.



BS/PAYONE



Google

XING

FREENOW

Adobe

PAYBACK

Microsoft

amazon

Find out more at: <https://www.statista-research.com/en/>

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