



2020 Smartphone launch

July, 2020

MICROSOFT ADVERTISING



Key Findings

COVID-19

Survey research shows that most respondents will not feel comfortable in-store shopping this holiday season. Advertisers should prepare for online-heavy shopping.

Research also shows that the sale of online handsets drastically increased from 2019 to 2020 with this trend likely to continue

COVID-19 is changing the way Microsoft Network users switch phone brands and use bandwidth

Projections

Non-brand phone searches are expected to nearly double year-over-year (YoY) from positive momentum so far in 2020

While Apple searches are expected to increase, they may not see as big of a spike as device launch 2019. Samsung, however, with multiple 5G devices coming, is predicted to spike slightly higher than 2019.

5G search volume is experiencing the most growth YoY. Searches for older phone models also picked up post-COVID, with this trend expected to continue.

5G

5G is heating up. Carrier associations with 5G is changing as a result of news, paid media, and network development. T-Mobile is growing share of mind.

Bing users need more awareness as to why 5G is relevant to them- it may influence decisions to buy 5G products.

Apple 5G association continues to be a force and will be even more so post launch, especially with the wave of Super Cycle upgraders deciding what to purchase next

Query path

Post COVID-19 we see non-brand queries increasingly showing up in paths and becoming a larger part of the consumer search journey. Using non-brand strategically to influence a consumer over time to search on your brand will significantly help as paths that start with a brand query will have a much higher probability of that path ending in a click on that brand related query.

Audience insights

The majority of Microsoft Network users are iPhone owners

Additionally, mobile phone customers are also frequently in the market for computers and computer gadgets/gear. Customers in the market for mobile phone service providers are frequently in the market for toys and games.

The majority of Microsoft network users are loyal to the smartphone brand they currently own and also price conscious

Microsoft Audience Network

The Microsoft Audience Network should be an important part of your activation plan with Microsoft Advertising

Click volume for Tech & Telco advertisers on the Audience Network has grown significantly in 2020

Technology advertisers have experienced a notable lift in Search activity from users who have seen their Audience Network ads

All creative and targeting strategies from Search can be extended for further reach in Native

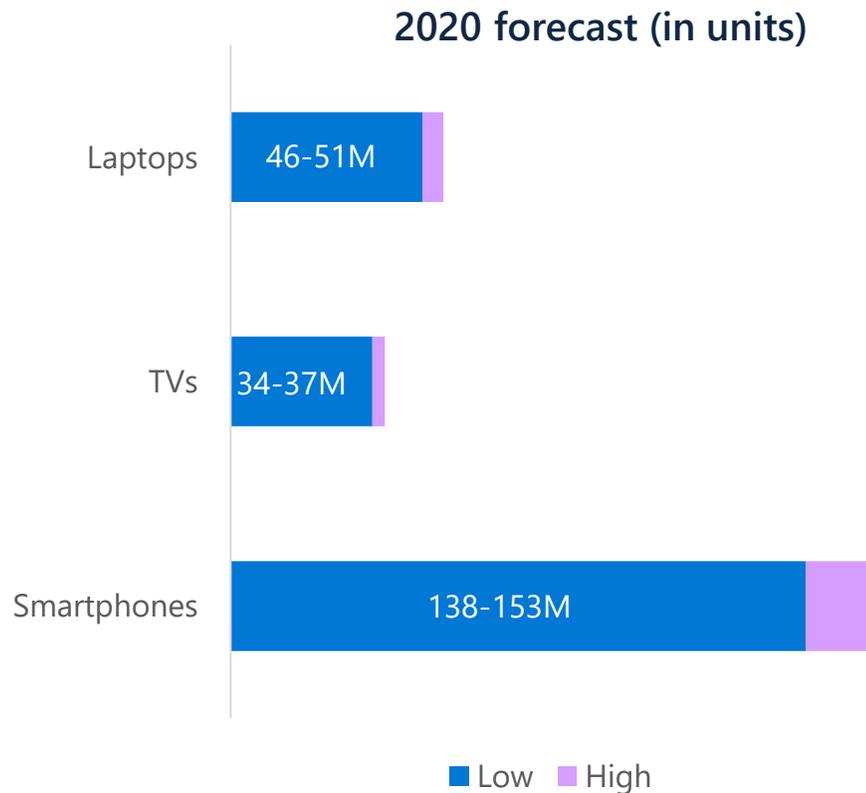
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- 5 Query paths & T-Mobile and Sprint
- 6 Audience insights and Microsoft Audience Network

Device launch amid the COVID-19 pandemic

How is the pandemic affecting the technology hardware market?

Forecast for U.S. consumer electronic sales for 2020



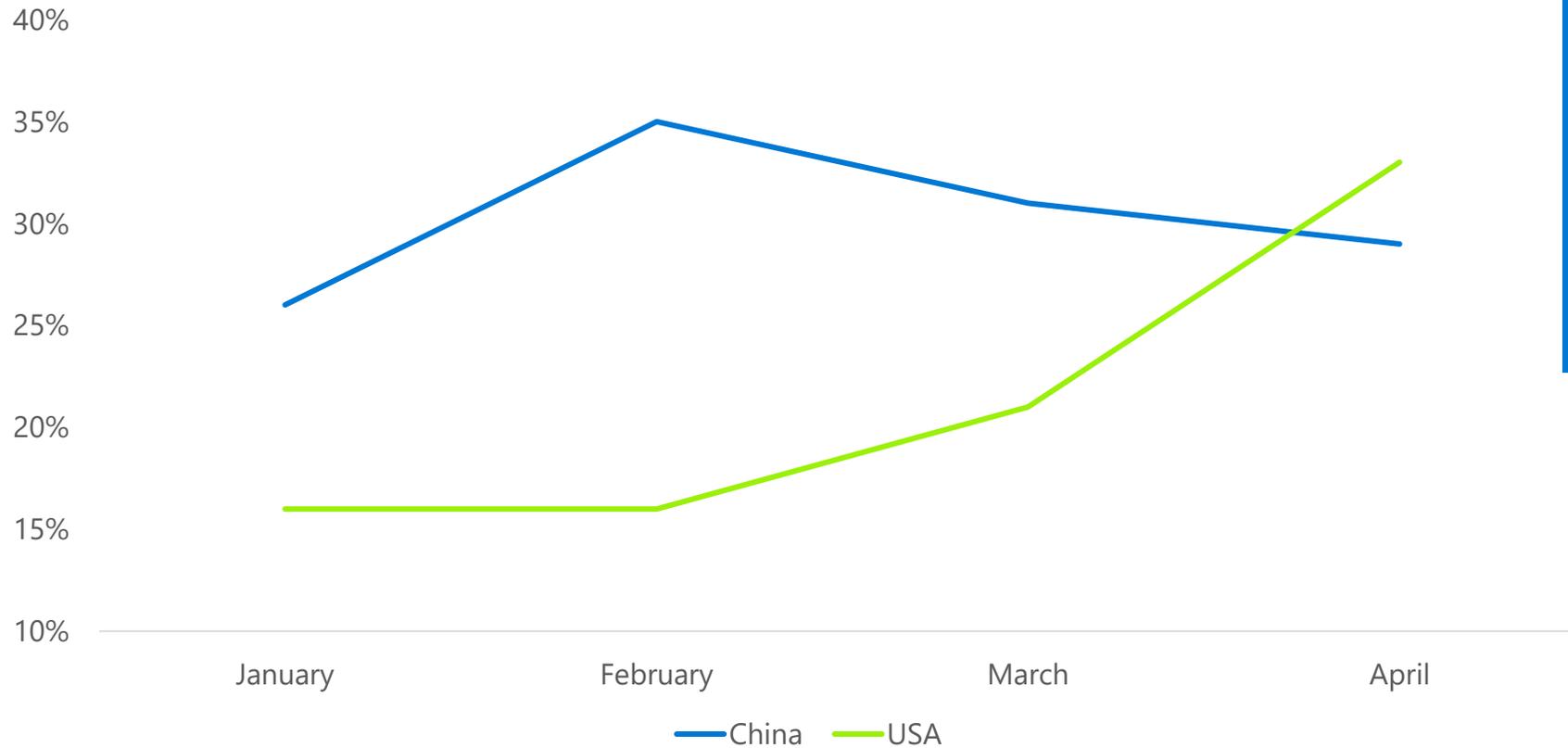
Source: [Statista](#) 2020

“Estimates are that over **1/3 of iPhones** used globally are in “**upgrade-window**”, something Apple are very excited about given increased savings combined with the **release of 5G products this Fall.**”

- www.marketwatch.com

Online sales of smartphones in 2020

The affect of COVID-19 on how consumers purchase smartphome



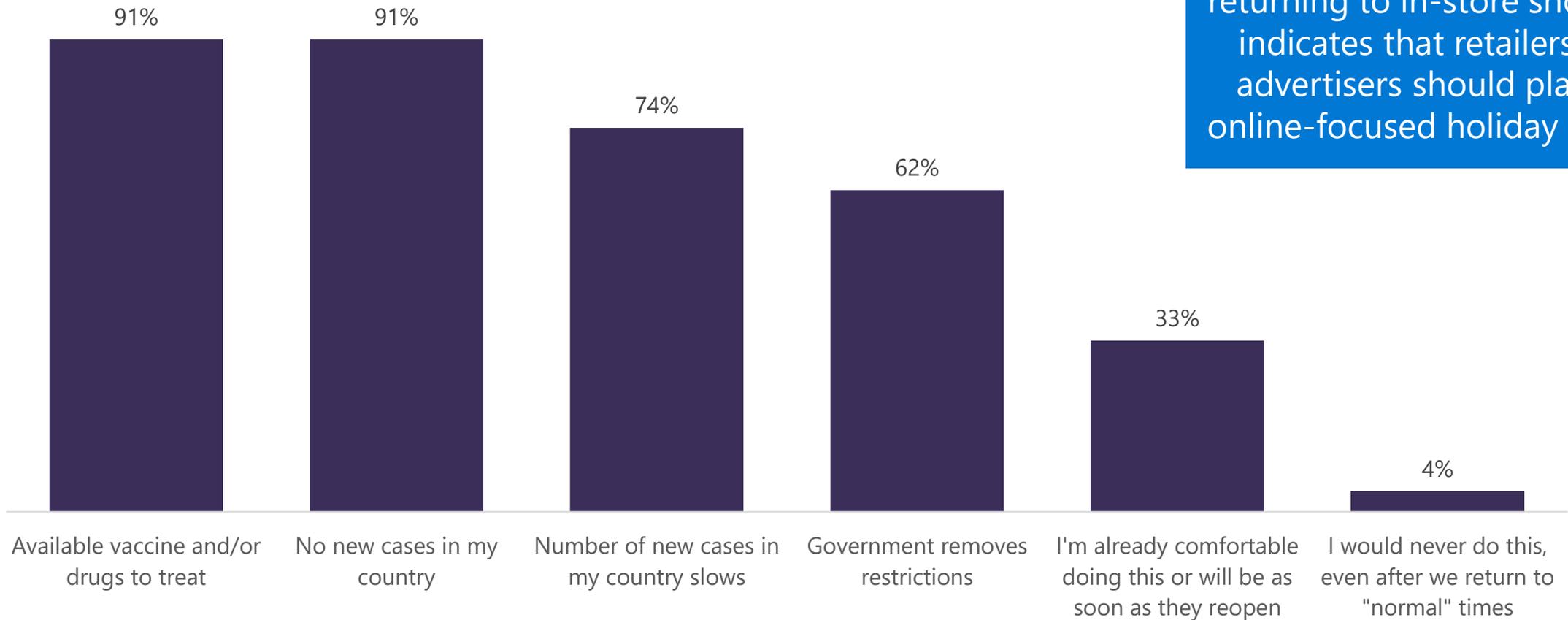
In 2019 the online share of handset sales was 25% in China and 14% in the U.S.. As of April 2020, almost 35% of handset sales have been online in the U.S. compared to ~30% in China.

Retailers should expect that the sale of handsets to continue

What will it take to get shoppers back in stores?

Customers sentiment on when shopping will resume at local stores

Shopper sentiment on returning to in-store shopping indicates that retailers and advertisers should plan for online-focused holiday season

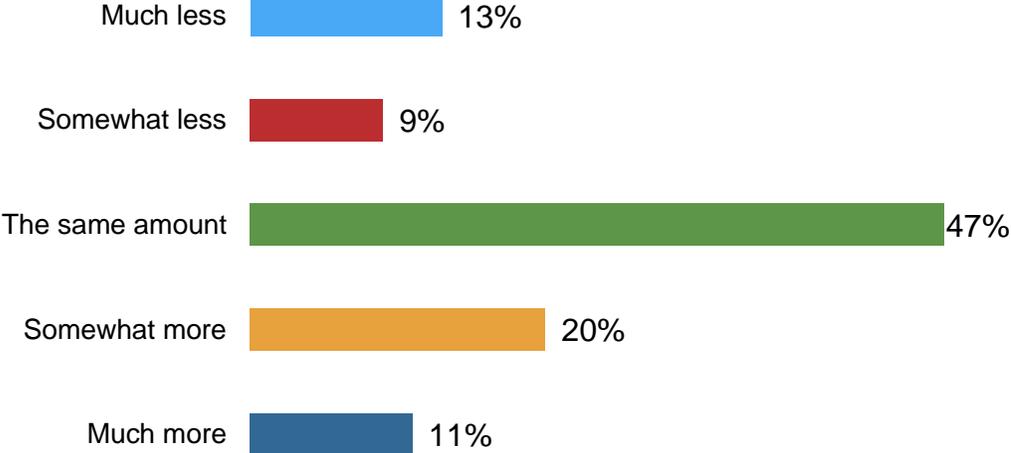
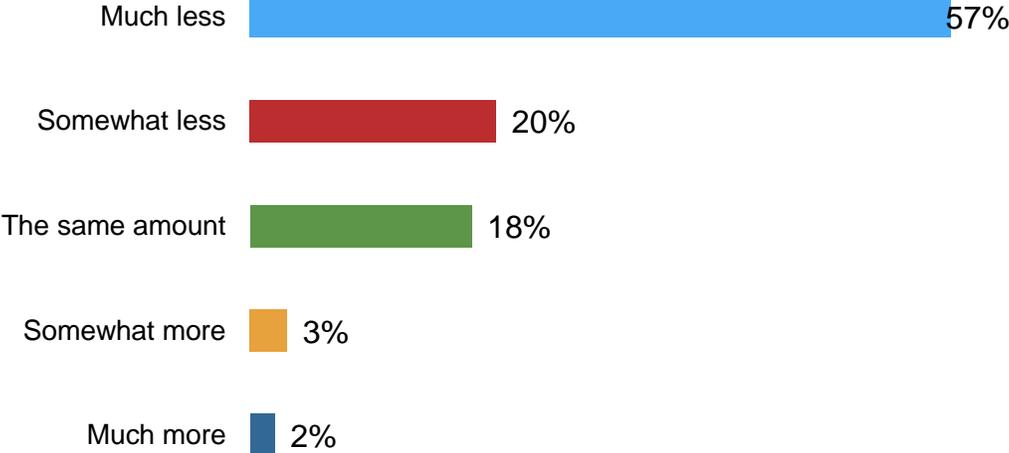


U.S. consumers are shopping much less in stores

Data from market research firm CivicScience states that 77% of customers are shopping less in stores while 31% are shopping more online

Are you shopping in stores (not including for groceries) more or less than you typically would this time of year?

Are you shopping online (not including for groceries) more or less than you typically would this time of year?



Source: Data from market research firm, CivicScience April 2020
<https://civicscience.com/latest/> for more information

Microsoft Network consumers are attending more virtual events

Thus placing more importance on increased bandwidth, consistent data speeds, and the lack of throttling

Virtual events



23% have attended a virtual event that's replaced a traditional in person event

A further **32% haven't attended one yet but will consider it**

18-34s have attended virtual events more (30%)

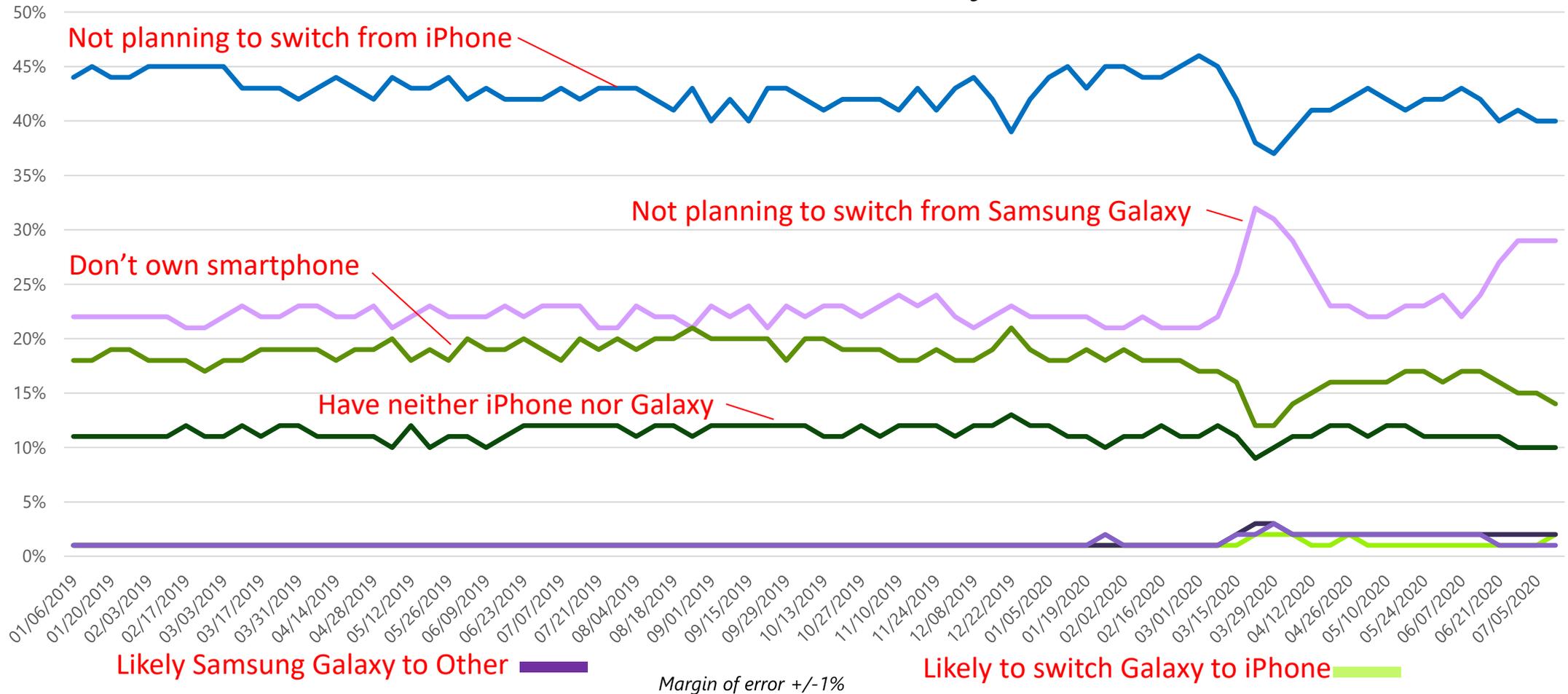
35-54s are more likely to attend in future (35%)



The pandemic has changed brand phone loyalties

iPhone users plan to be less loyal while Samsung users increased self-reported loyalty. Also, more people planned to buy smartphones.

How likely are you to switch from your current smartphone to another in the next 90 days?



Source: MSN Data from market research firm, CivicScience 2019 – July 12, 2020



Next steps

COVID-19

- Ensure proper coverage for shopping campaigns
- Consider conquest terms during launch
- Communicate messaging around unlimited plans and bandwidth

Projections

Non-brand phone searches are projected to increase

Non-brand searches relating to mobile devices

Non-brand

Comparing 2020 and 2019 year to date (YTD)



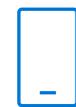
+90%

Year-over-year (YoY) click growth



+43%

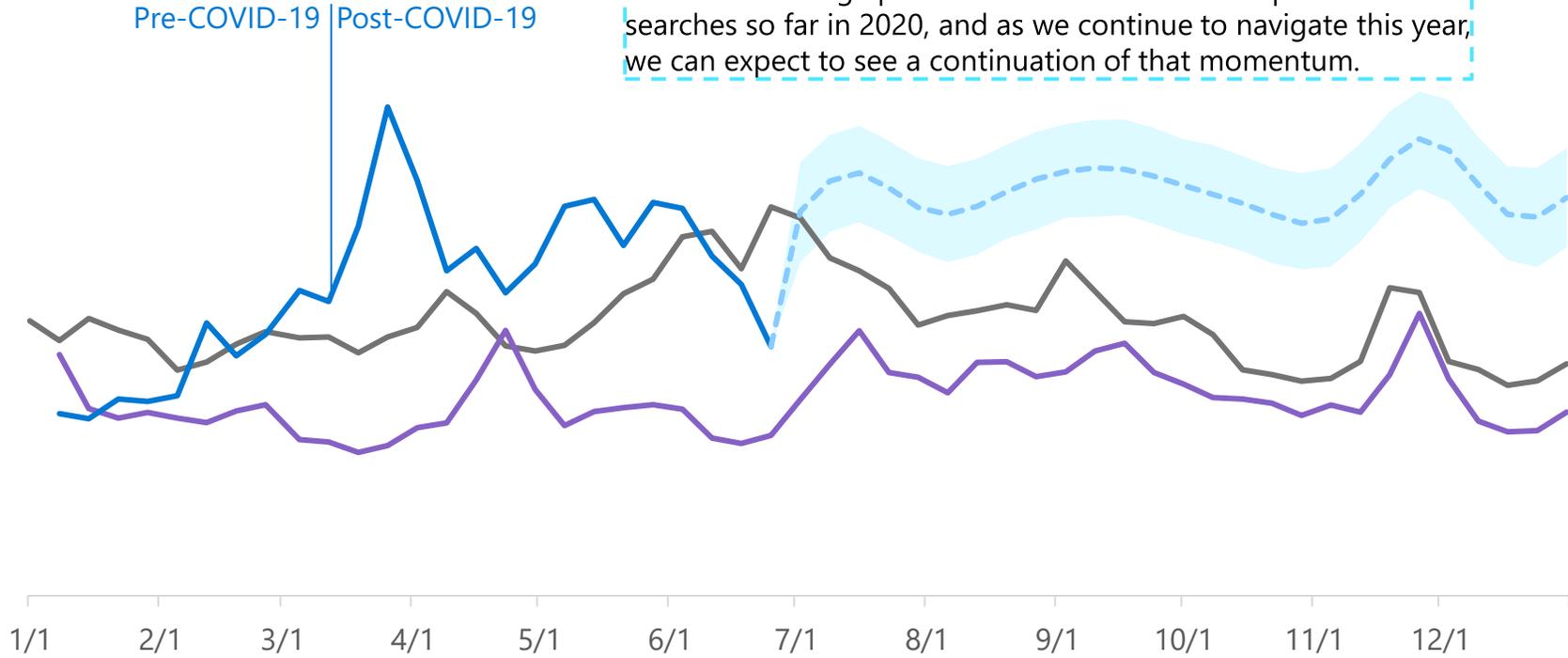
Product Ad YoY click growth



+125%

Mobile YoY click growth

Non-brand traffic is projected to be much higher than last year. This is due in large part to increases in nonbrand phone searches so far in 2020, and as we continue to navigate this year, we can expect to see a continuation of that momentum.



2020 Actuals
2019 Actuals
2018 Actuals
Forecast

+84%
Projected 2020 YoY change from 2019

Disclaimer: Forecasts should be used as directional only and to gauge where volume will be based on the current state of the market (as of the week of 6/29). Due to COVID-19 and market volatility, changes to this projection are highly likely.

Source: Microsoft Advertising Internal Data; January 1, 2018 – June 29, 2020; methodology in notes section



Apple searches are expected to increase, but may see a lower spike around their new device launch than last year

Searches for Apple mobile devices

Apple iPhone

Comparing 2020 and 2019 YTD



+8%

YoY click growth



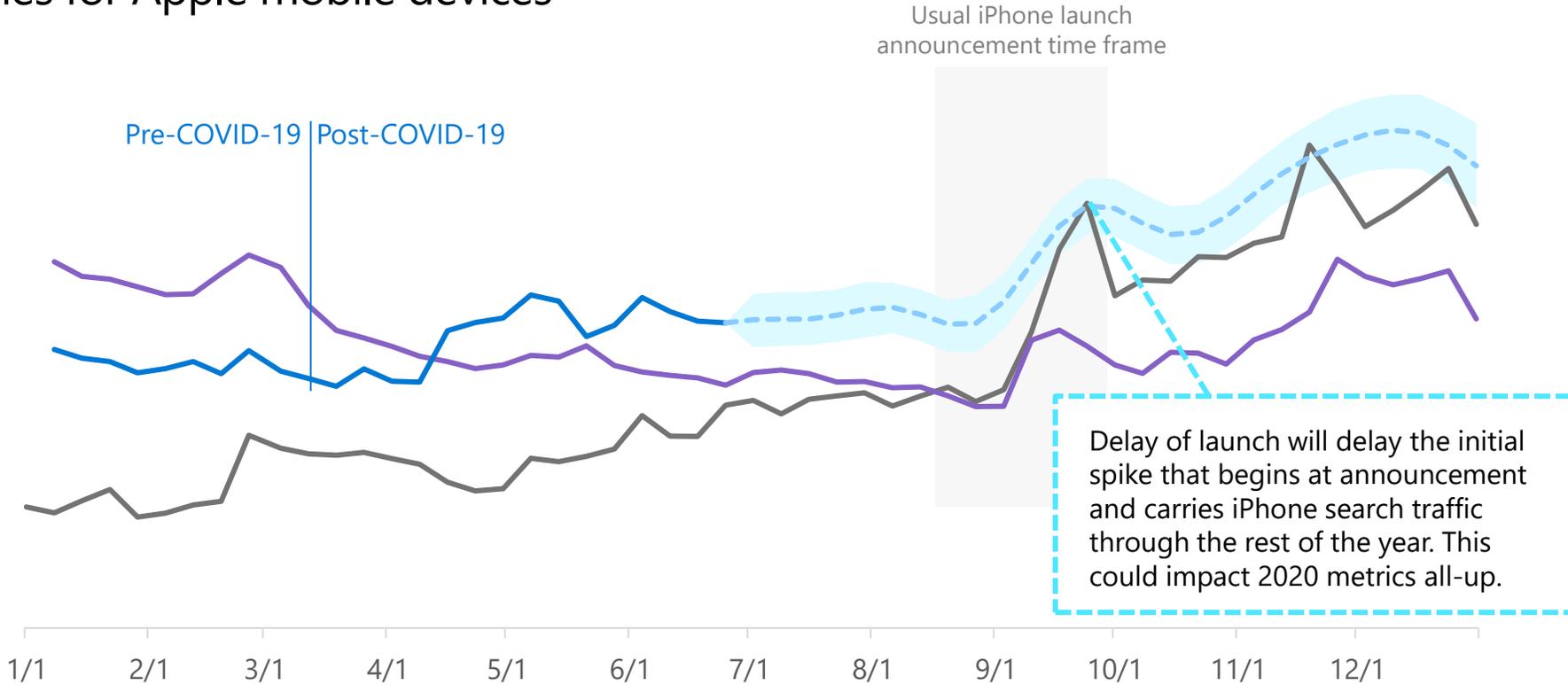
+6%

Product Ad YoY click growth



+3%

Mobile YoY click growth



2020 Actuals
2019 Actuals
2018 Actuals
Forecast

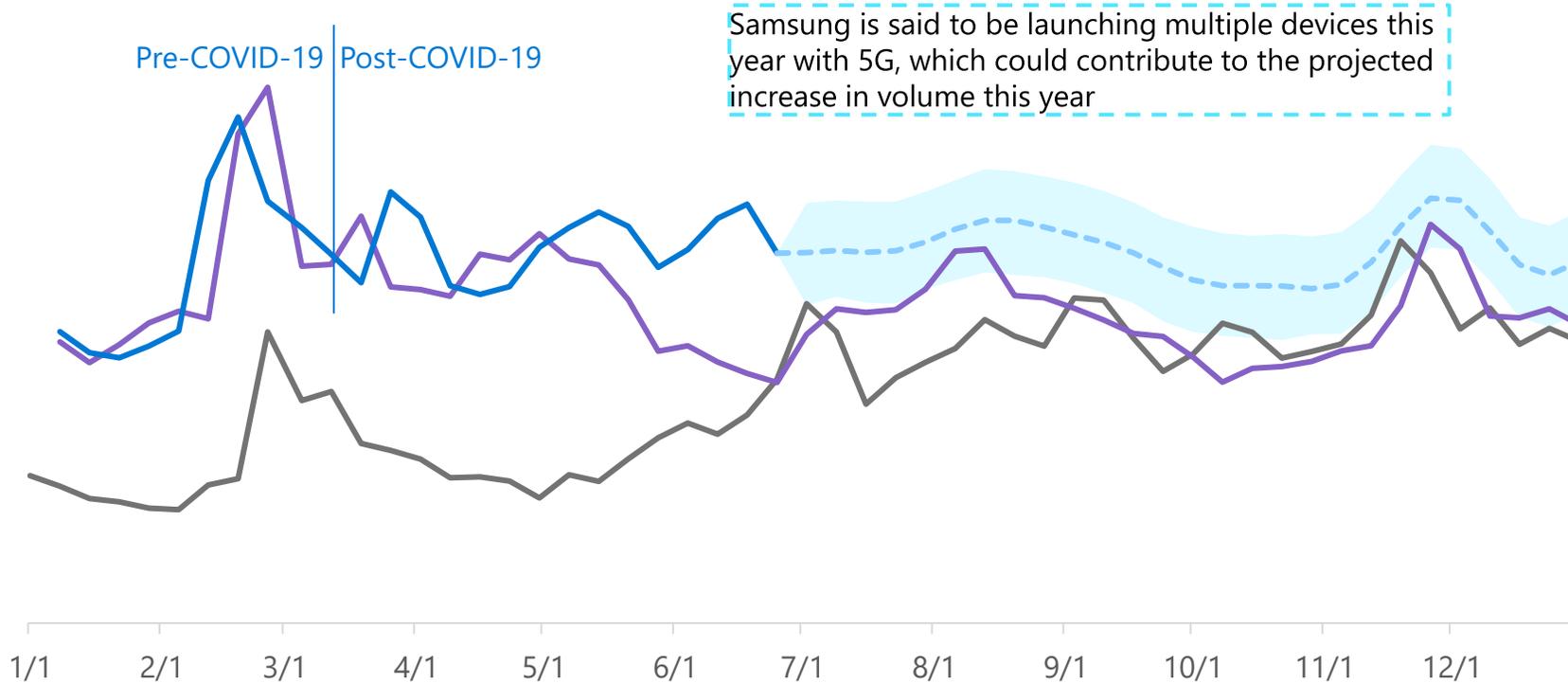
+19%

Projected 2020 YoY change from 2019

Disclaimer: Forecasts should be used as directional only and to gauge where volume will be based on the current state of the market (as of the week of 6/29). Due to COVID-19 and market volatility, changes to this projection are highly likely.

Samsung mobile device searches will increase, and if launch dates remain consistent, so will new device traffic

Searches for Samsung Galaxy phones



2020 Actuals
2019 Actuals
2018 Actuals
Forecast

+18%

Projected 2020 YoY change from 2019

Disclaimer: Forecasts should be used as directional only and to gauge where volume will be based on the current state of the market (as of the week of 6/29). Due to COVID-19 and market volatility, changes to this projection are highly likely.

Source: Microsoft Advertising Internal Data; January 1, 2018 – June 29, 2020; methodology in notes section

Samsung Galaxy

Comparing 2020 and 2019 YTD



+13%

YoY click growth



+31%

Product Ad YoY click growth



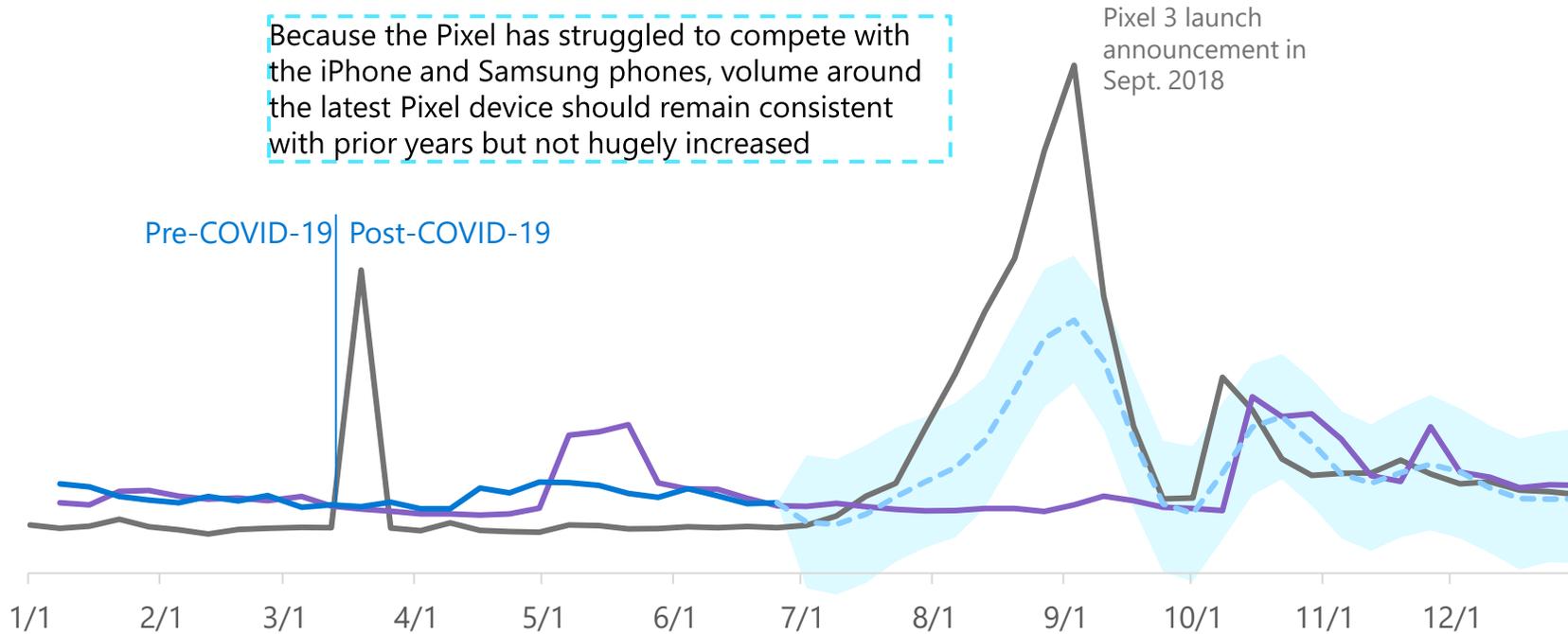
+9%

Mobile YoY click growth



Pixel is unlikely to see major changes in search traffic without major interest in their new device

Searches for Google Pixel



2020 Actuals
2019 Actuals
2018 Actuals
Forecast

+14%

Projected 2020 YoY change from 2019

Disclaimer: Forecasts should be used as directional only and to gauge where volume will be based on the current state of the market (as of the week of 6/29). Due to COVID-19 and market volatility, changes to this projection are highly likely.

Source: Microsoft Advertising Internal Data; January 1, 2018 – June 29, 2020; methodology in notes section

Google Pixel

Comparing 2020 and 2019 YTD



-31%

YoY click growth



+3%

Product Ad YoY click growth



-28%

Mobile YoY click growth



5G traffic continues to steadily increase year over year, and is expected to continue its upward trajectory through 2020

Searches relating to 5G

5G

Comparing 2020 and 2019 (Year to Date)



+65%

YoY click growth



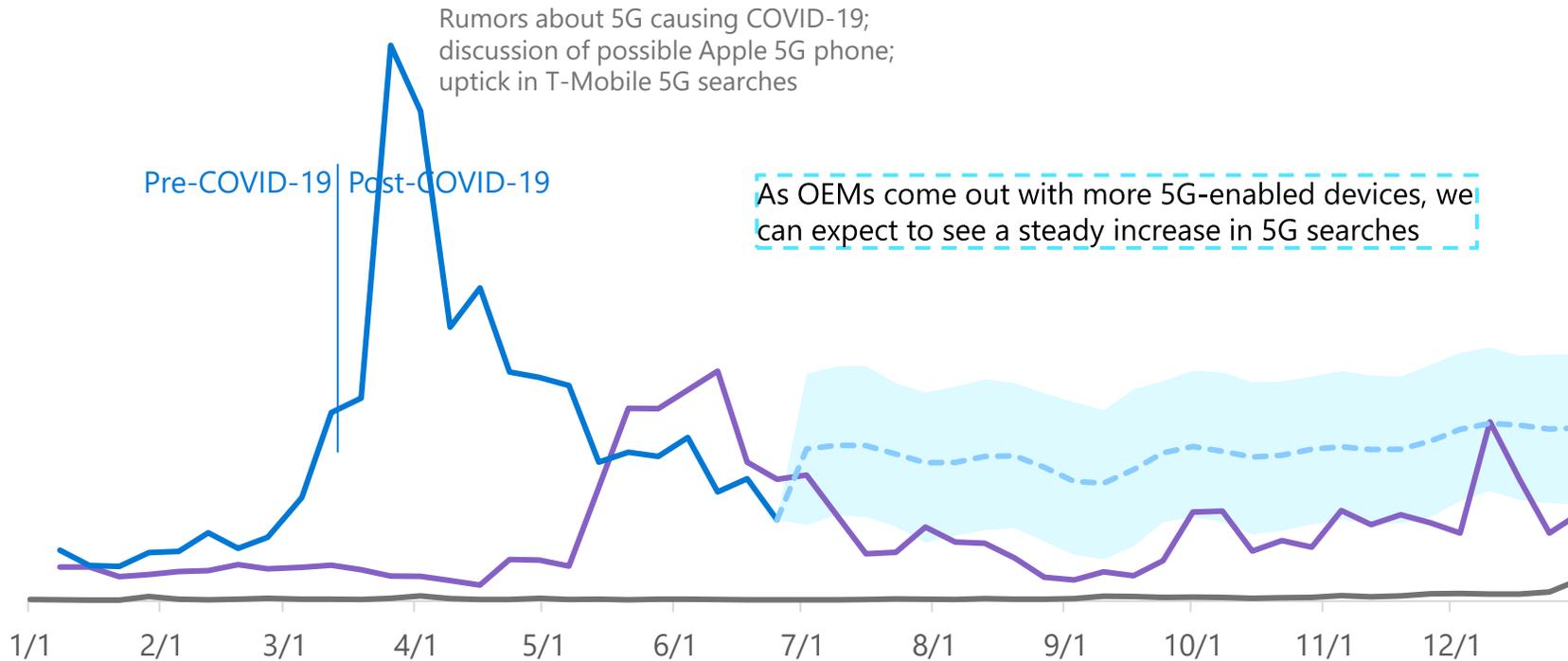
+758%

Product Ad YoY click growth



+61%

Mobile YoY click growth



2020 Actuals
2019 Actuals
2018 Actuals
Forecast

+127%

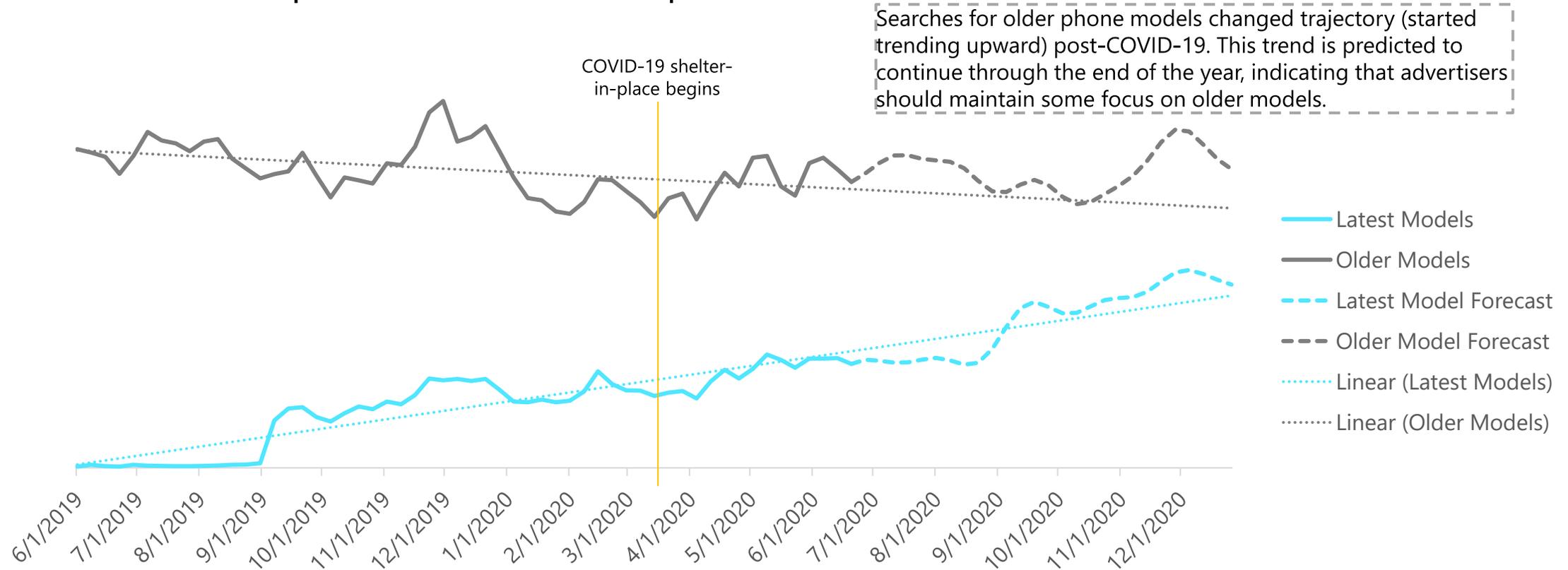
Projected 2020 YoY change from 2019

Disclaimer: Forecasts should be used as directional only and to gauge where volume will be based on the current state of the market (as of the week of 6/29). Due to COVID-19 and market volatility, changes to this projection are highly likely.

As searches for new models go up, searches for old models go down; old models did see a spike post-COVID-19

New vs. old

Searches for the latest phone models vs. older phone models



Disclaimer: Forecasts should be used as directional only and to gauge where volume will be based on the current state of the market (as of the week of 6/29). Due to COVID-19 and market volatility, changes to this projection are highly likely.

Next steps

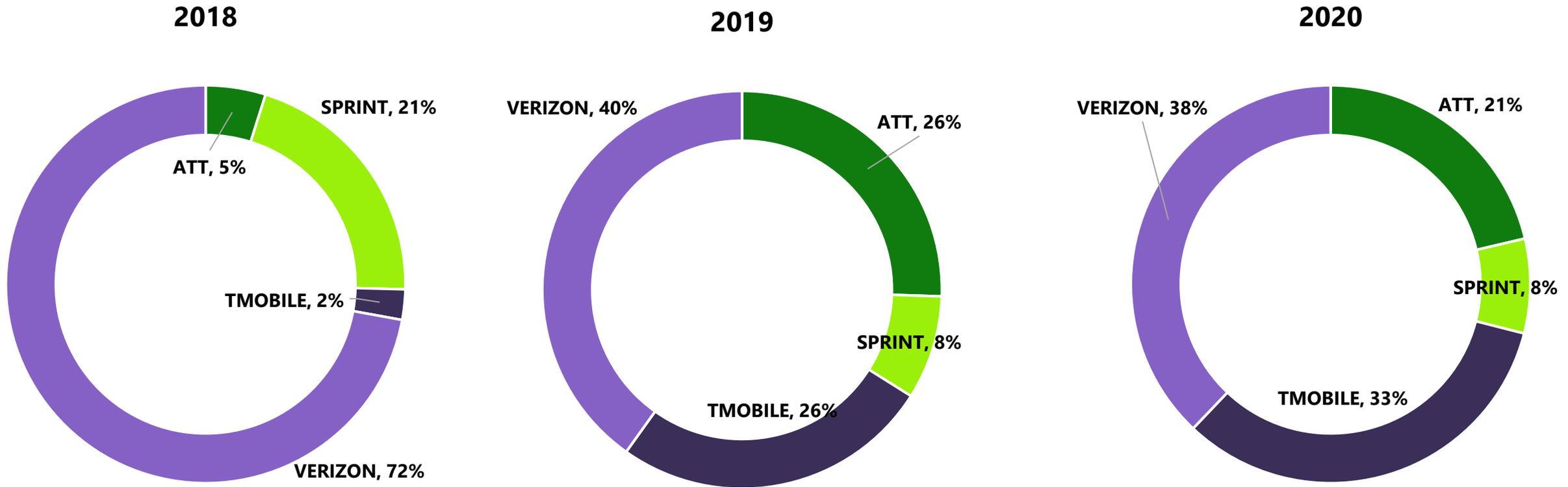
Projections

- Forecasts show positive momentum in search traffic through the end of 2020, meaning device launch traffic could beat that of previous years and advertisers should plan to meet this demand. Delayed launch dates would likely not impact volume, just prolong the spikes.
- Searches for older phone models changed trajectory (started trending upward) post-COVID-19. This trend is predicted to continue through the end of the year, indicating that advertisers should maintain some focus on older models.

5G update

T-Mobile has gained the most share from AT&T

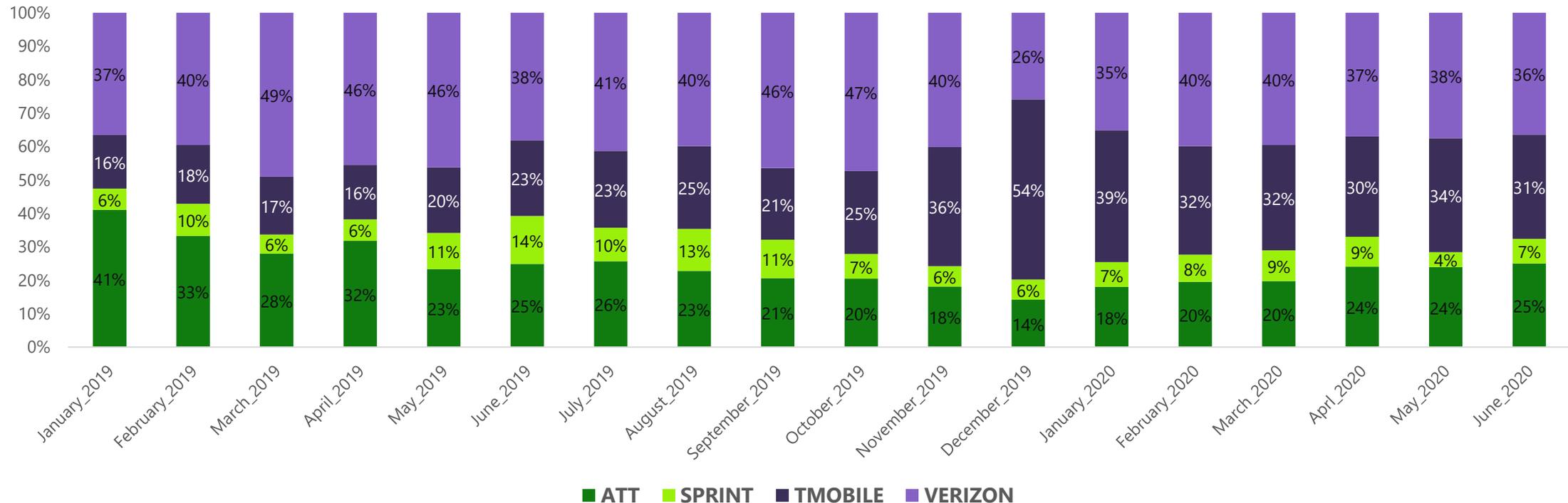
Search volume share across "carrier 5G" and "carrier 5G network" terms



T Mobile gains the most YoY share

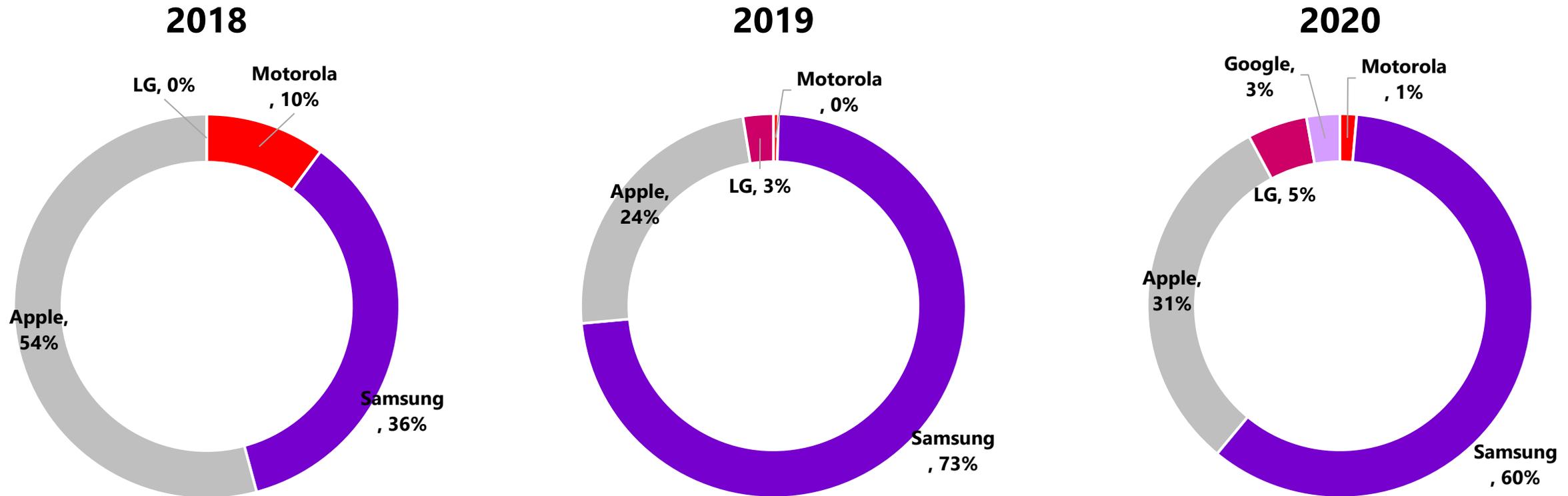
Trended search volume share across "carrier 5G" and "carrier 5G network" terms

2019 - 2020



Anticipation for Apple 5G phones grows in 2020

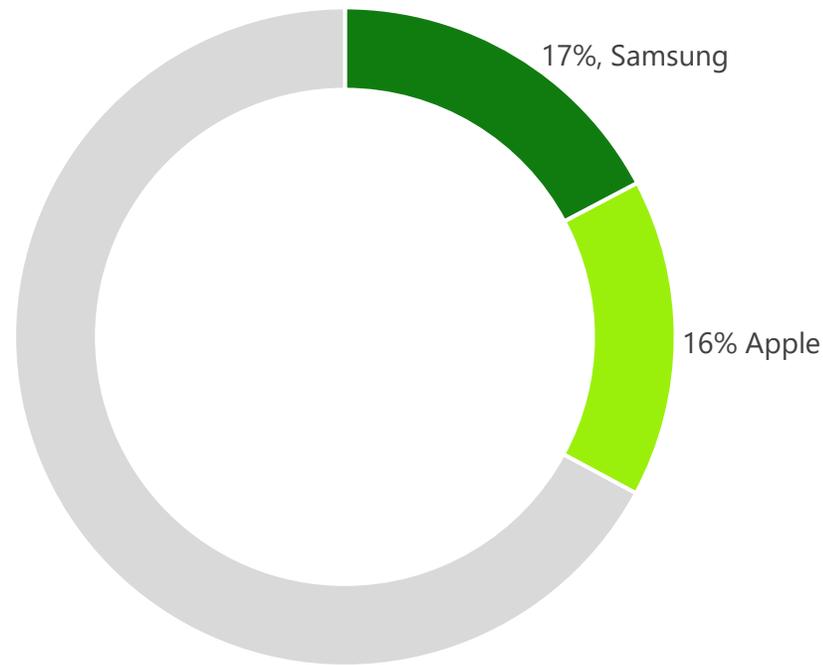
Search volume share across "brand 5G" and "brand 5G phone" terms



Last year Microsoft Network users associated 5G with Apple as much as they did with Samsung

Without launching a 5G handset last year, Apple has an interesting advantage due to this false perception despite Samsung being among the first to offer 5G phones

Associate with 5G mobile phone service



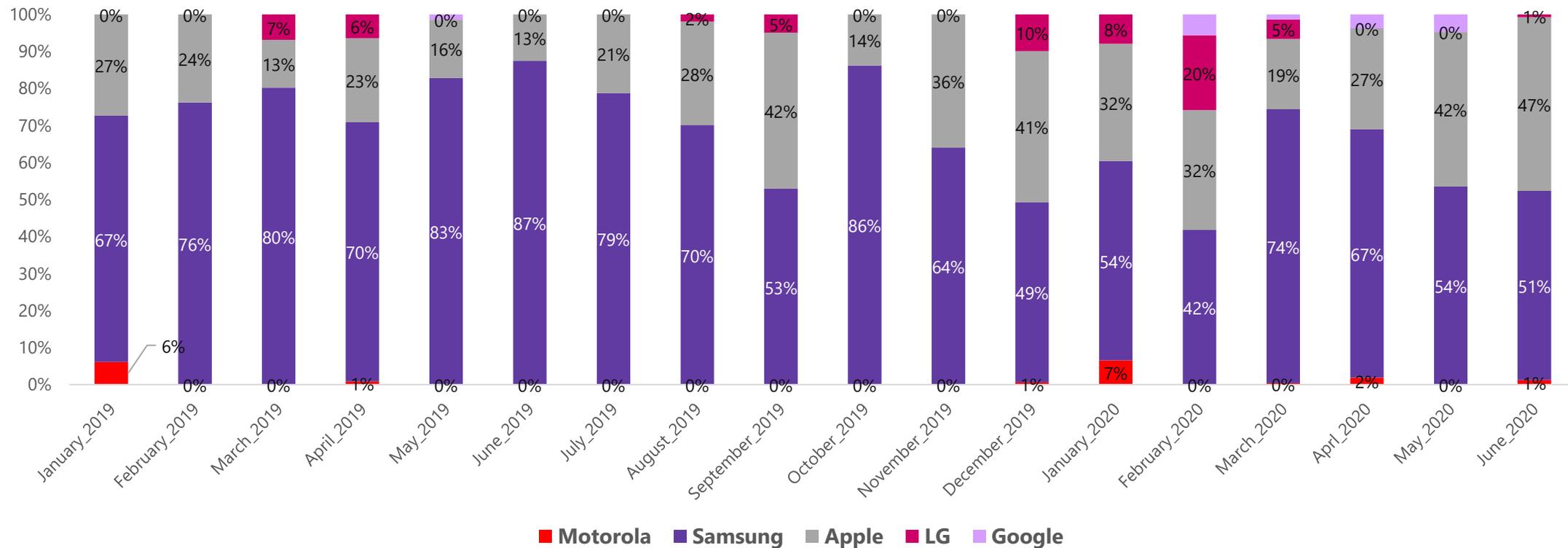
Margin of error +/-3%

Apple is also riding momentum from recent rumors of a full line up of 5G iPhones, contributing to the searches for 5G iPhones

Anticipation for Apple 5G phones grows in 2020

Search volume share across "brand 5G" and "brand 5G phone" terms

2019 - 2020



Preparing for the Apple “super cycle” may help increase 5G demand

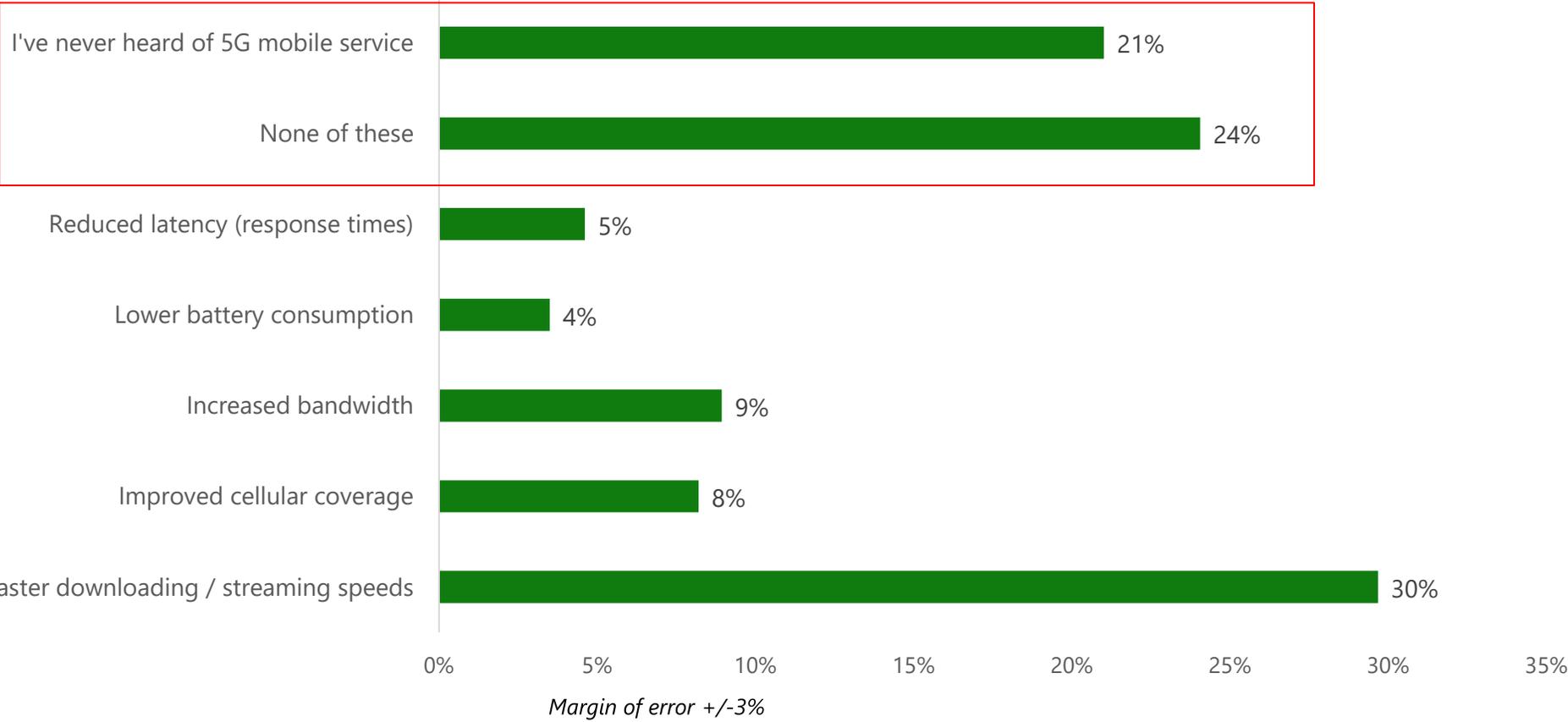
Demand steadily rebounded in China in June, and as other nations contain the coronavirus and lift lockdowns, the stage is set for "massive pent up" interest in the iPhone 12...Roughly 350 million of Apple's 950 million iPhones worldwide are set for an upgrade in the fall. With a new range of phones spanning price points and 5G capability, the company is positioned for demand to spike over the next 12 to 18 months

~ Dan Ives, analyst at Wedbush Securities

Over 1 out of 3
iPhone users (~37%)
worldwide are due
for an upgrade in
the fall of 2020

Half of Microsoft Network users require education around 5G

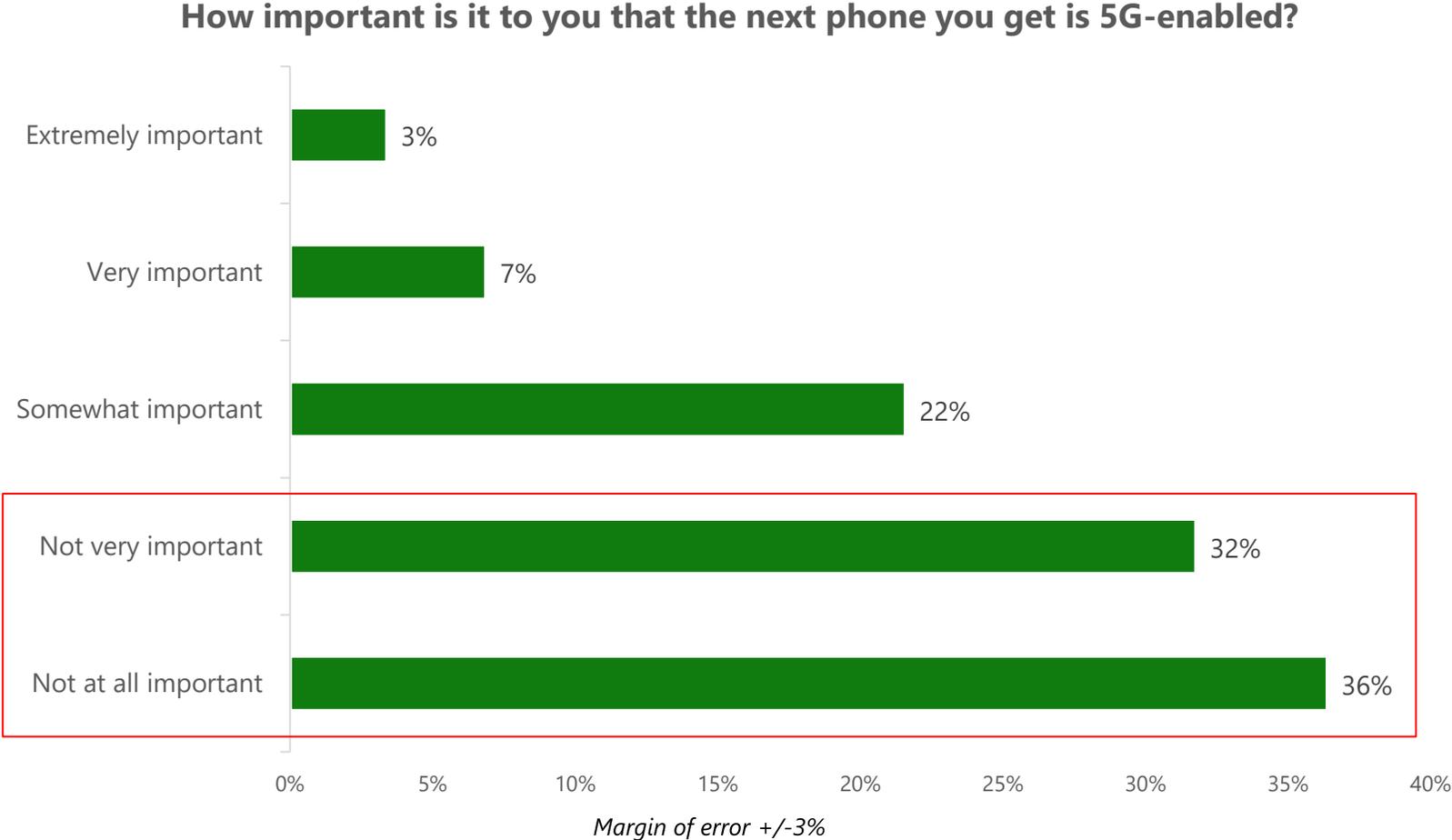
Based on what you currently know about 5G, which of the following benefits do you MOST associate with 5G mobile service?



Source: MSN Data from market research firm, CivicScience August, 2019



Having a 5G phone is unimportant to the majority of Microsoft Network users



Source: MSN Data from market research firm, CivicScience August, 2019

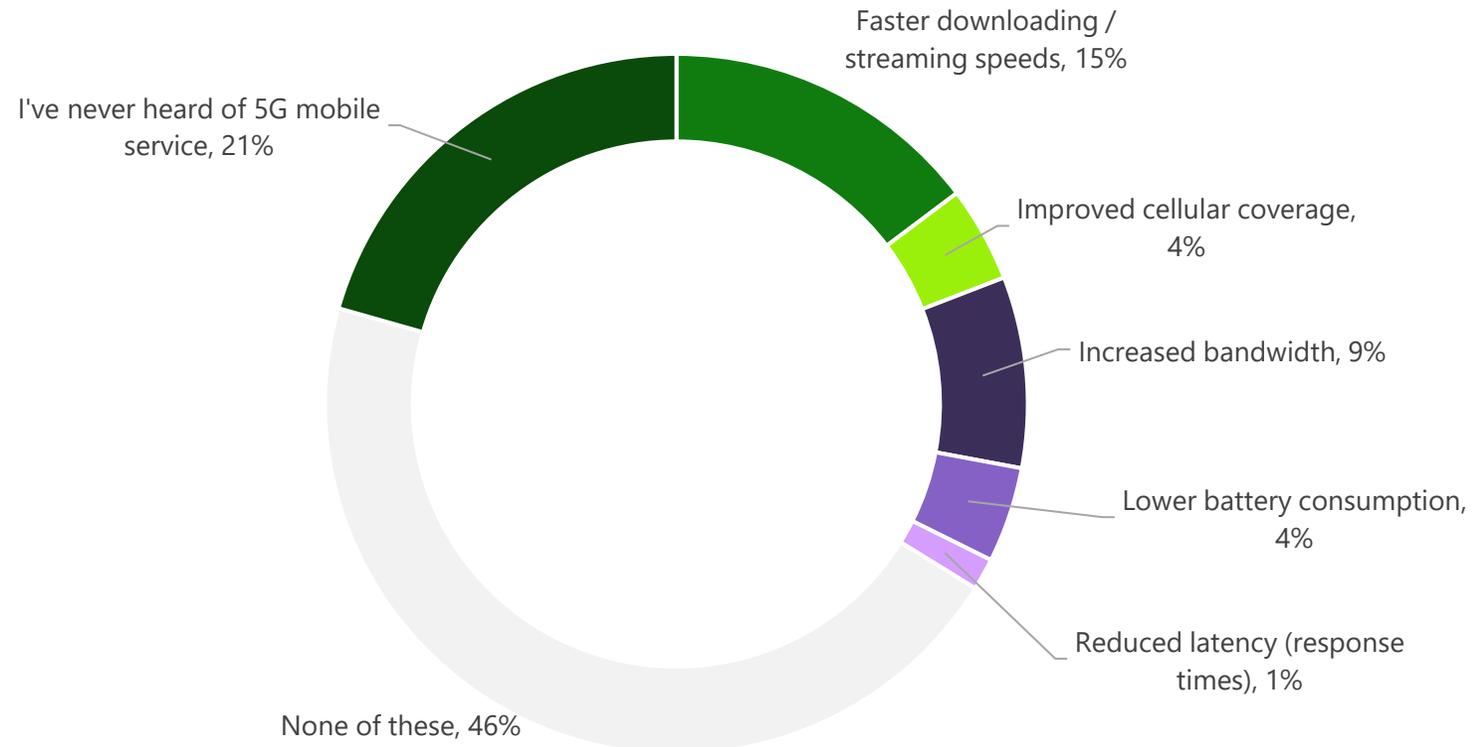


5G may not be important due to the lack of awareness around 5G

Those who stated the importance of 5G in their next phone don't know the benefits of 5G

Which of the following benefits do you MOST associate with 5G mobile service?

Segmented by those who answered "not important" to How important is it to you that the next phone you get is 5G-enabled?



Disclaimer: the data above is represented by a small sample size and may not be reflective of users across the Microsoft network

Next steps

5G

- Carriers need to continue their quest to educate, differentiate, and incentivize 5G plans through brand and non brand efforts
- Anticipate a big surge in 5G phones as Apple launches its first 5G device – the appetite is already there even without 5G iPhones now. Carriers need to leverage this launch to their advantage.

Query paths

The beginning of a path can illuminate what a consumer will likely click on at the end of their path. This was the result of the 2019 device launch and holiday season.

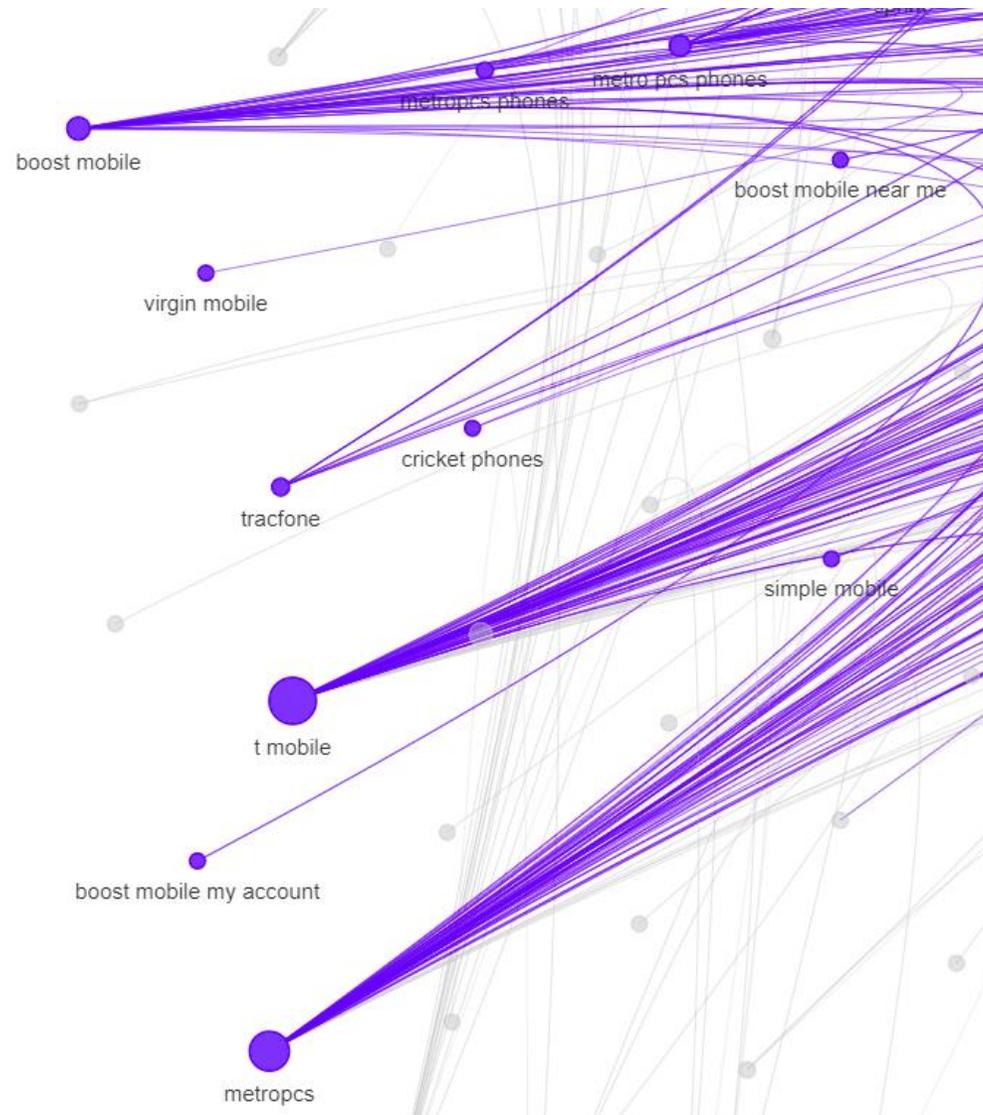
Next steps

Query path

- Expand or fortify keyword portfolio to be inclusive of higher volume non-brand terms even more so on influential non-brand terms such as “best smartphones”
- Trend traffic by device does not change much in terms of how the consumer searches. Make sure you are visible on all devices for all keywords
- Showing up for your brands queries are more important than ever before
- During the peak impact of COVID-19 we saw the average query path length shorten to 5 queries. During the holiday and phone launch season of 2019 the average query path length was 25 queries long. Be prepared for either scenario of shorter or longer paths with high keyword coverage and aggressive bids. Shorter paths gives you shorter opportunities to win the last click. Longer paths give you the opportunity to influence the last click.
- Request the top queries in these categories to have expanded coverage in your portfolio

What will happen to query path trends once T-Mobile sunsets Sprint?

The T-Mobile community of queries is strongly tied to prepaid carriers



T-Mobile will sunset the Sprint brand this summer

- Unique to T-Mobile, many consumer queries before and after a T-Mobile are related to other prepaid carriers
- 63% of Sprint subscribers are postpaid while 15% of Sprint subscribers are in prepaid plans
- Churn rate for Sprint prepaid subscribers is nearly 4X greater than postpaid subscribers
- During March, when the COVID-19 pandemic became reality, there was an increase in queries categorized as prepaid and non-brand
- The potential for non-brand and prepaid queries increases if we see a second wave of COVID-19 in the US

If the post COVID-19 trend continues, the expectation for query paths related to carriers should show an increase of queries in the non-brand and postpaid carrier categories to fill the Sprint void

Audience insights

Target Overlapping Audiences For More Volume

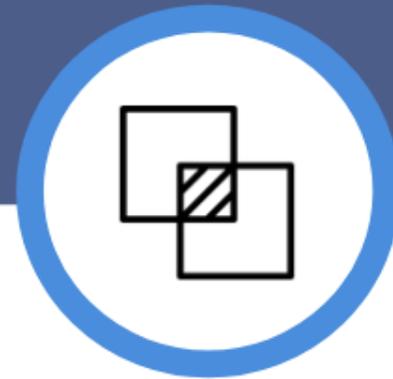


Consumers In-Market For Your Product...

339.97K

users who are In-Market for

/Consumer Electronics/Mobile Phones



...Are Also In-Market For Others

32.14%	/Computers & Peripherals
29.28%	/Home & Garden
24.01%	/Telecom/Mobile Phone Service Providers
20.75%	/Apparel & Accessories
19.15%	/Travel



Target Overlapping Audiences For More Volume

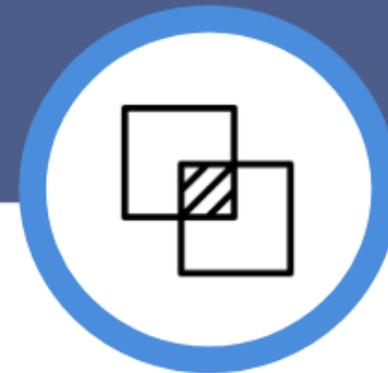


Consumers In-Market For Your Product...

4.08M

users who are In-Market for

/Telecom/Mobile Phone Service Providers



...Are Also In-Market For Others

28.41%	/Hobbies & Leisure/Toys & Games
27.39%	/Apparel & Accessories/Women's Apparel
26.86%	/Autos & Vehicles/Auto Parts & Accessories/Wheels & Tires
25.08%	/Financial Services
24.90%	/Apparel & Accessories/Activewear



Target Overlapping Audiences For More Volume



Consumers In-Market For Your Product...

694.28K

users who are In-Market for

/Computers &
Peripherals/Computers/Tablets &
Ultraportable Devices



...Are Also In-Market For Others

74.42%	/Computers & Peripherals
33.12%	/Home & Garden/Home & Garden Services/Yard Garden & Patio
24.73%	/Home & Garden/Home Decor
24.20%	/Apparel & Accessories/Shoes
23.78%	/Home & Garden



Target Overlapping Audiences For More Volume

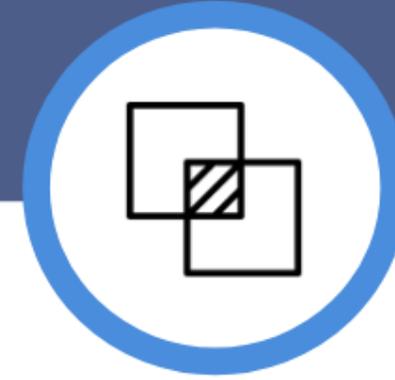


Consumers In-Market For Your Product...

1.93M

users who are In-Market for

/Computers &
Peripherals/Computers/Laptops &
Notebooks



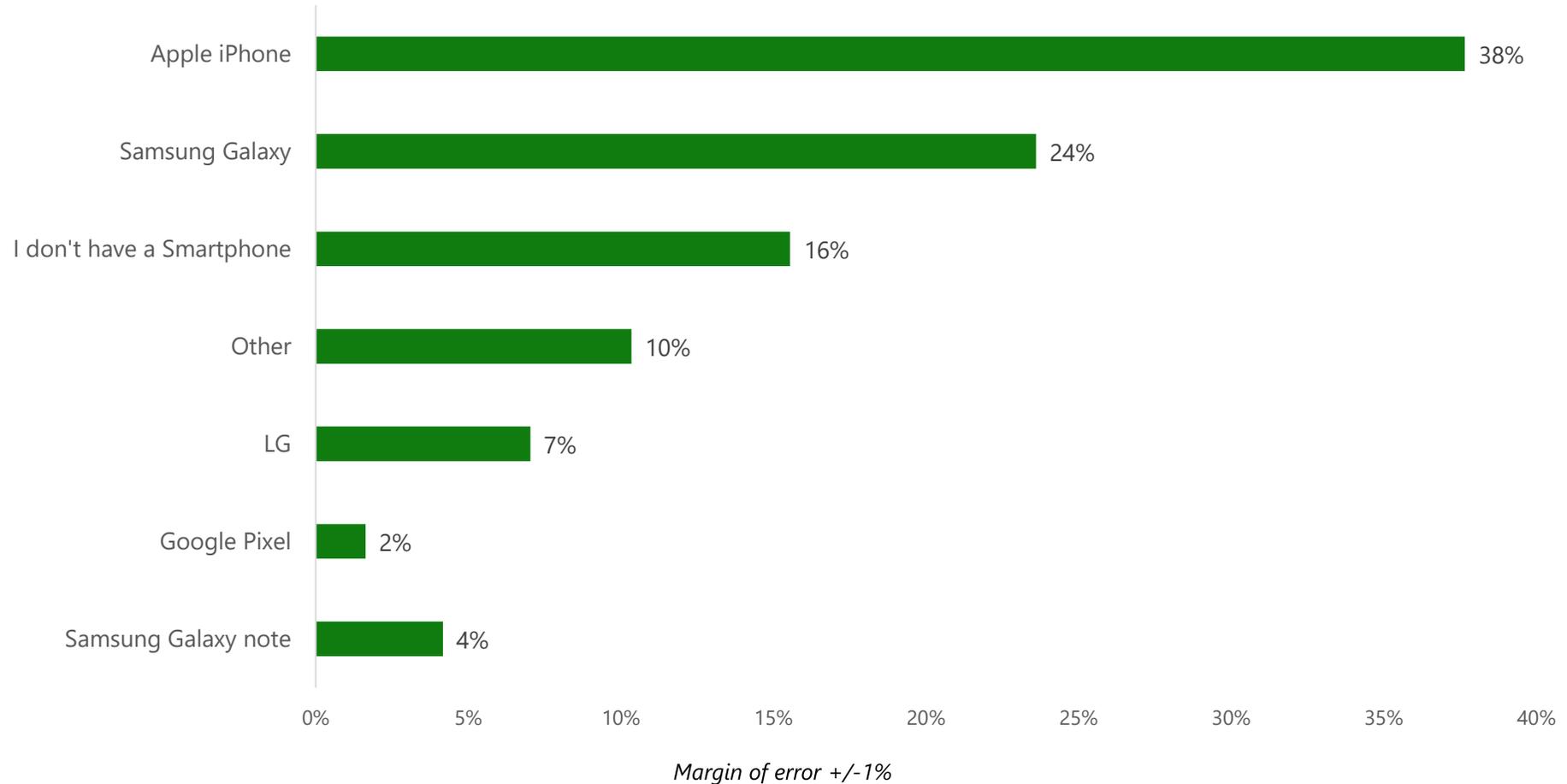
...Are Also In-Market For Others

45.70%	/Home & Garden
40.76%	/Apparel & Accessories/Clothing
36.63%	/Sports & Fitness
36.58%	/Travel
34.16%	/Arts & Entertainment/Movies & Films



The majority of Microsoft Network users are iPhone users

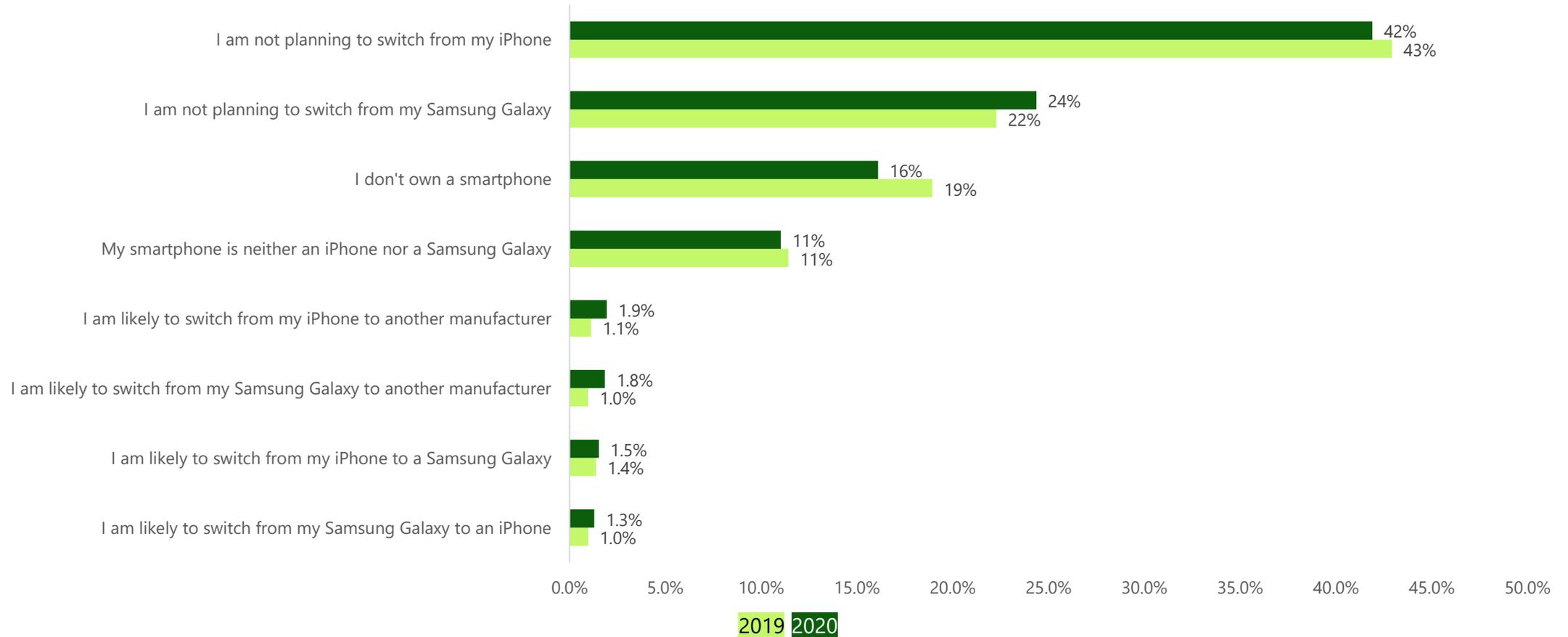
Which of the following types of smartphones do you currently own?



Overall the majority of Microsoft Network users are loyal iPhone users

Though low in number, more iPhone users are willing to switch to other manufacturers than compared to Samsung users

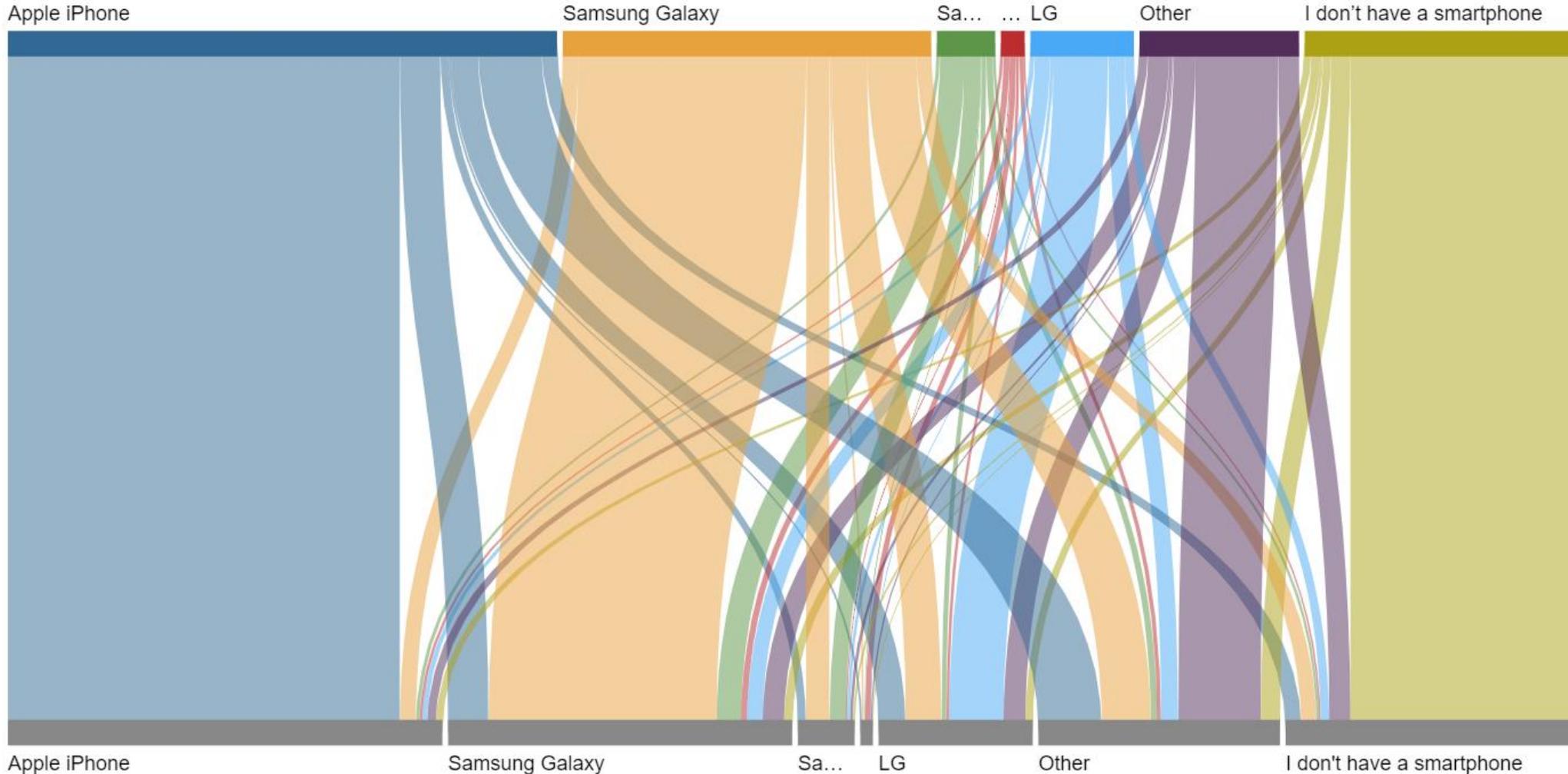
How likely are you to switch from your current smartphone to another in the next 90 days?



Margin of error +/-1%

The majority of Microsoft Network users are loyal iPhone users

Which of the following types of smartphone do you currently own?



Currently Have	Previously Had
71% iPhone	iPhone
7% iPhone	Galaxy
<1% iPhone	Pixel
5% iPhone	LG
12% iPhone	Other
62% Galaxy	Galaxy
4% Galaxy	iPhone
<1% Galaxy	Pixel
10% Galaxy	LG
13% Galaxy	Other
23% Pixel	Pixel
12% Pixel	iPhone
26% Pixel	Galaxy
12% Pixel	LG
17% Pixel	Other
53% LG	LG
5% LG	iPhone
15% LG	Galaxy
1% LG	Pixel
16% LG	Other

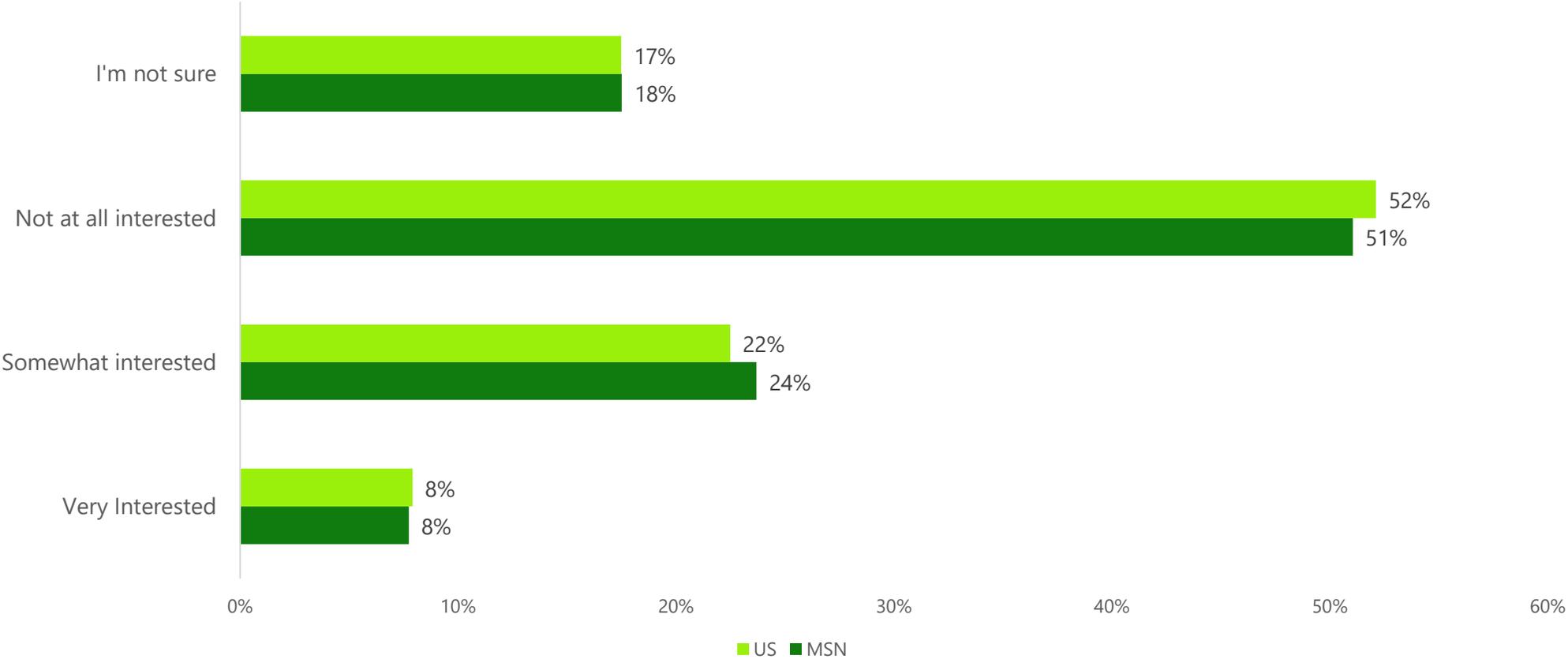
What was the brand of smartphone you owned prior to buying the one you currently have?

Source: MSN Data from market research firm, CivicScience Jan – July 12, 2020

Microsoft Network users are slightly more likely to buy a foldable phone

32% of Microsoft Network users are interested in purchasing a foldable compared to 30% of the U.S. population

How interested would you be in buying a smartphone with a foldable touchscreen?



Margin of error +/-2%

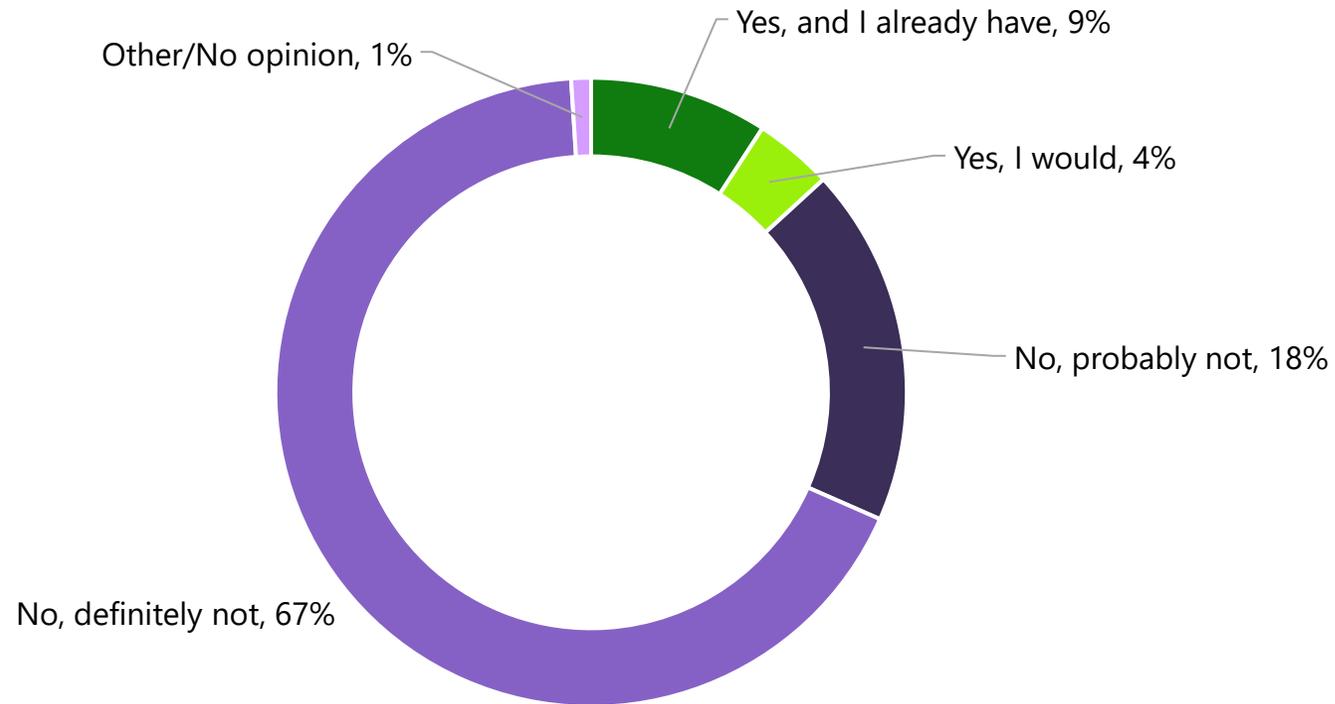
Source: MSN Data from market research firm, CivicScience February, 2020



The majority of Microsoft Network users are price conscious phone buyers

85% of Microsoft Network users would not purchase a smartphone for \$1,000

Would you pay \$1k for a smartphone?



Margin of error +/-1%

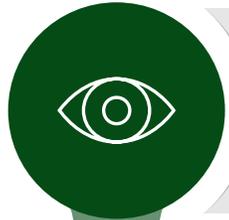
Next steps

Audience

- Retarget users who have previously purchased an iPhone or Samsung phone
- Allocate some budget for those who are also looking to switch phone brands and cross shop (conquest)
- Price may be an even bigger selling point for phones this year due to the pandemic, so promotions around key times is essential to growing sales
- Expand your audience targeting to include overlapping interests that may be outside of the scope of technology and devices

Microsoft Audience Network

Meet the Microsoft Audience Network



Premium native placements

Strict publisher standards and AI-powered curation



Brand-safe experiences

Transparency and controls for advertisers



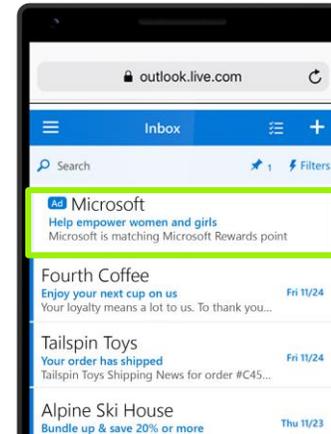
Highly contextual ad placements

Based on Microsoft first-party data

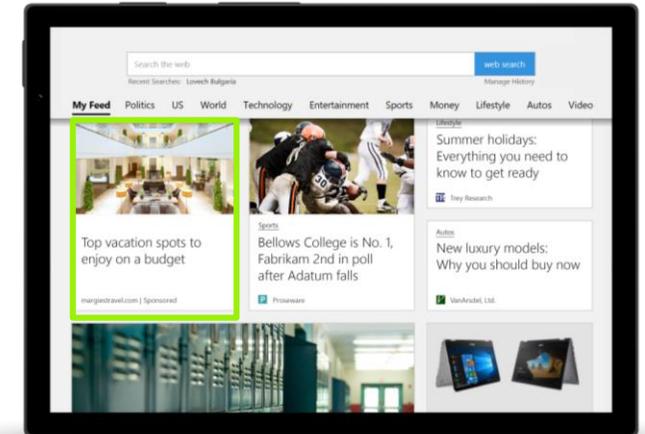


Strong industry ad performance

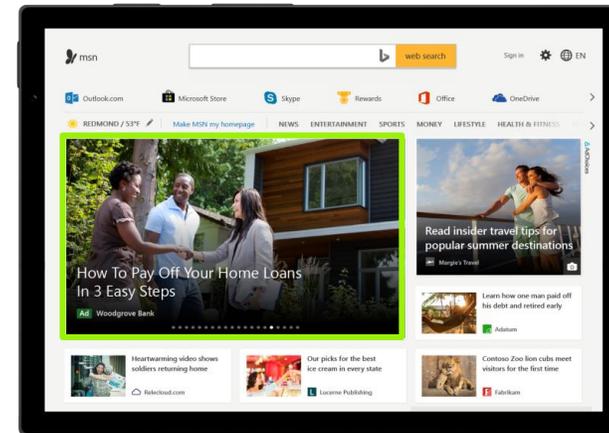
Driven by leading-edge AI technology



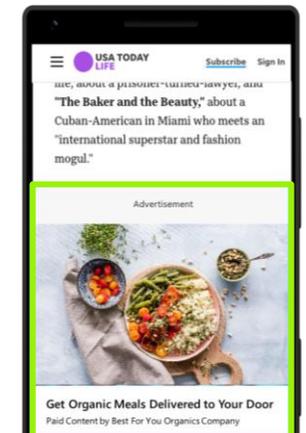
Outlook.com



Microsoft Edge



MSN



Select publisher partners

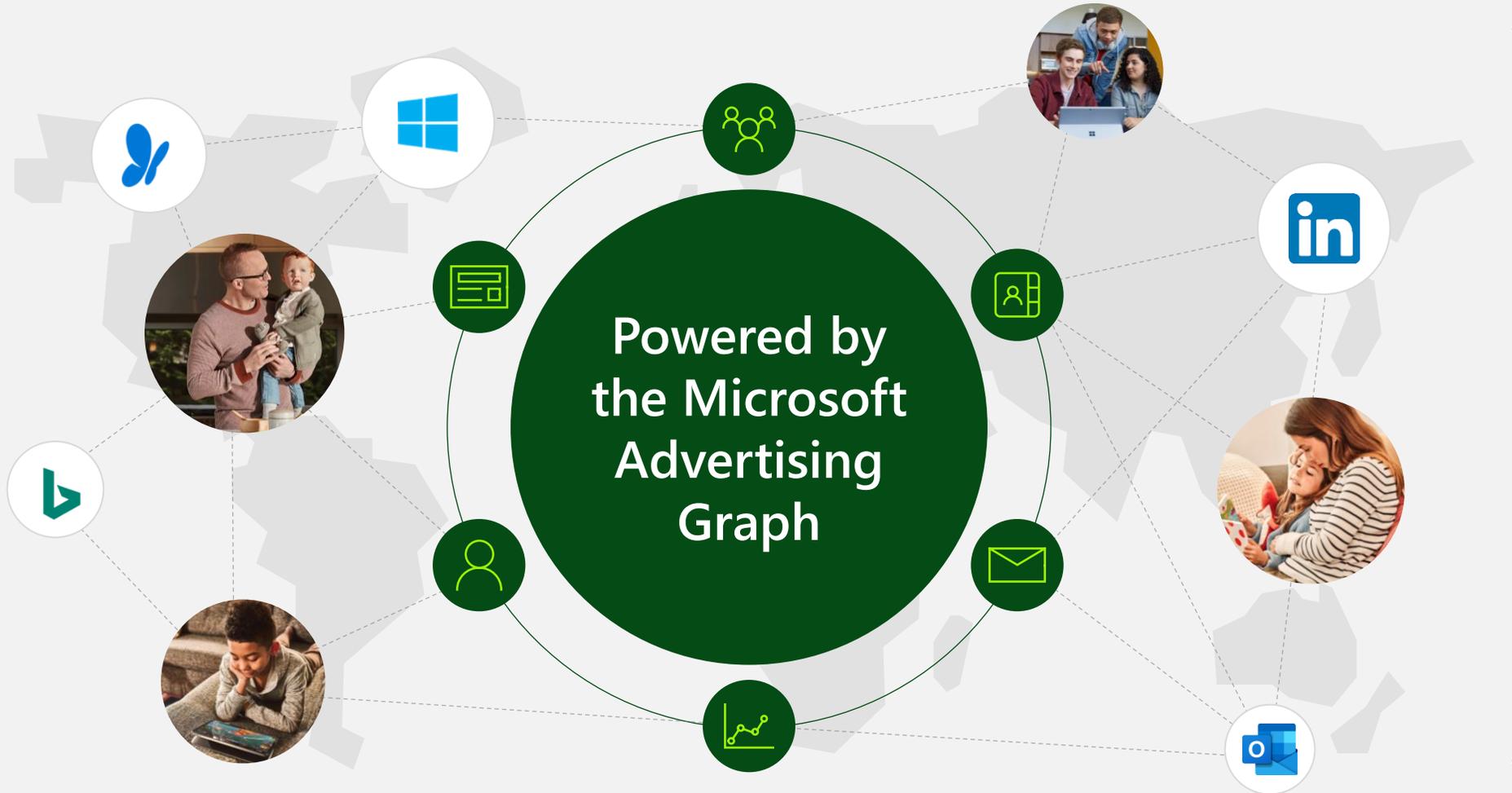
Drive meaningful connections with your audience

Using Microsoft first-party intent data


1B
devices running
Windows 10¹


498M
monthly unique
visitors²


11B
global monthly
searches²




675M
global
professionals³

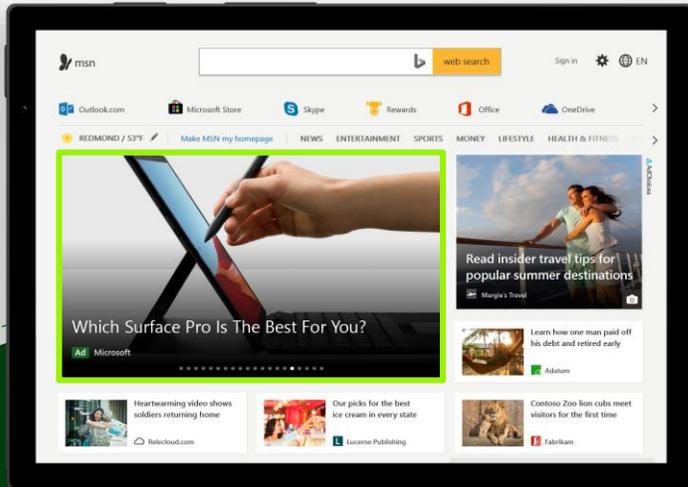

200M
monthly unique
visitors²


64M
monthly unique
users²

1. Microsoft internal data, June 2020, (<https://news.microsoft.com/bythenumbers/en/windowsdevices>). 2. comScore, August 2018. 3. Omnicore, May 2019. 4. Microsoft internal data.

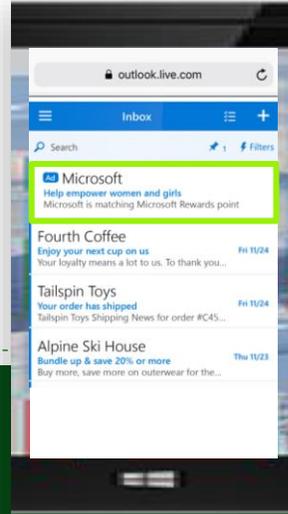
Achieve your goals with high-performing ads

Our Audience Ads click-through rates (CTRs) outperform other native platforms delivering ads on the same properties



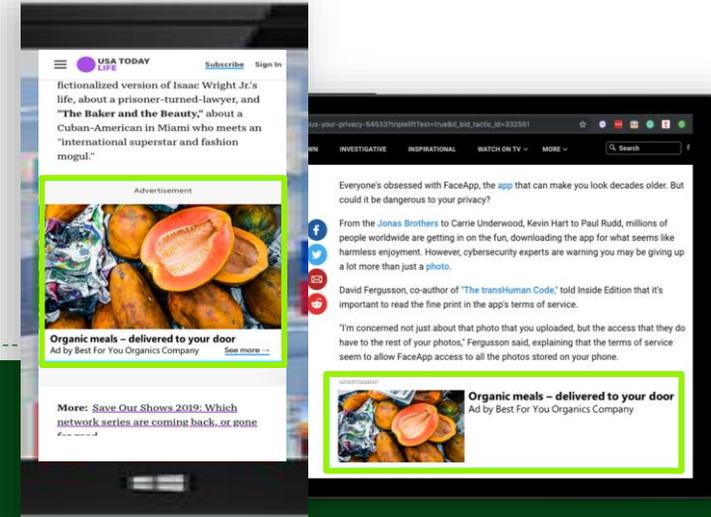
MSN INFOPANE

2x CTR¹



OUTLOOK.COM

1.2x CTR²



PUBLISHER PARTNERS

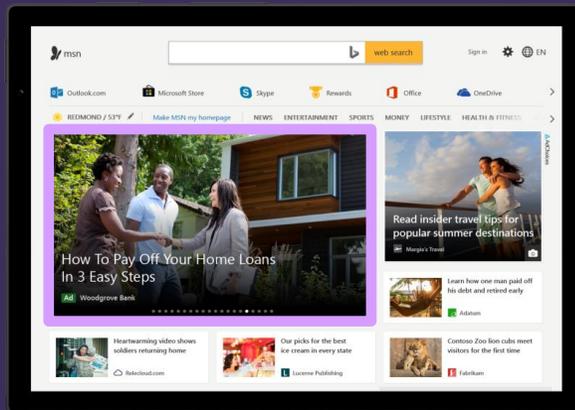
3.5x CTR³

1. Microsoft internal data, November 2019-January 2020. 2. Microsoft internal data, July 2019-October 2019. 3. Publisher partner data and Microsoft internal data, November 2019-January 2020. Numbers are rounded to the nearest percentage point. CTR is click-through rate.

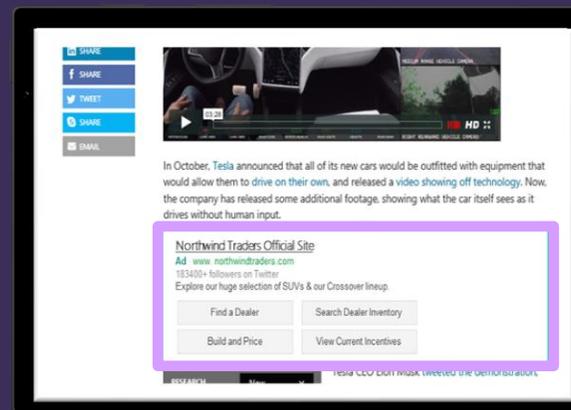
Microsoft Audience Ads

Adding images and copy to your search campaigns is one of the most important actions you can take to make sure your ads serve on the Microsoft Audience Network

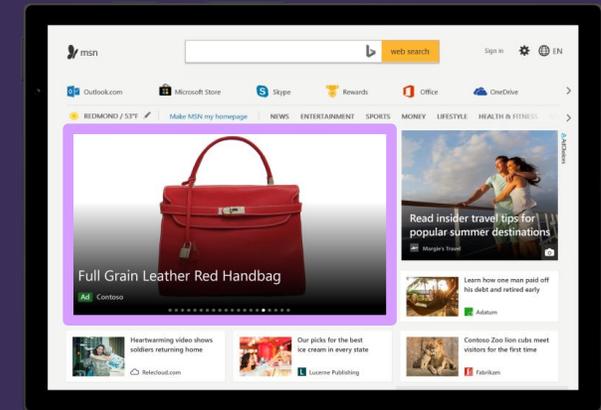
IMAGE ADS



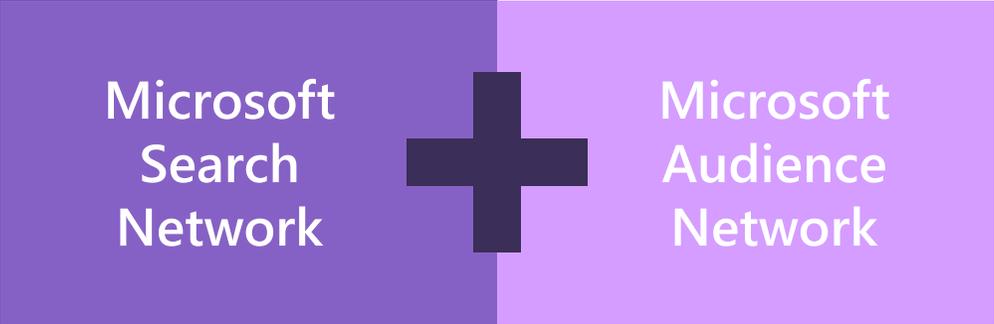
TEXT ADS



PRODUCT ADS



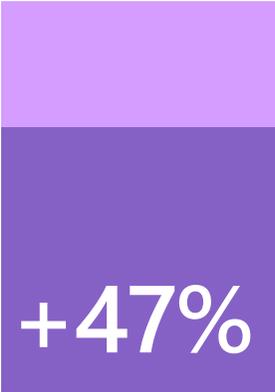
Microsoft Audience Network exposure drives lift on search for Tech & Telco advertisers



lift in impressions post-exposure¹



We reach over **half a billion** people worldwide



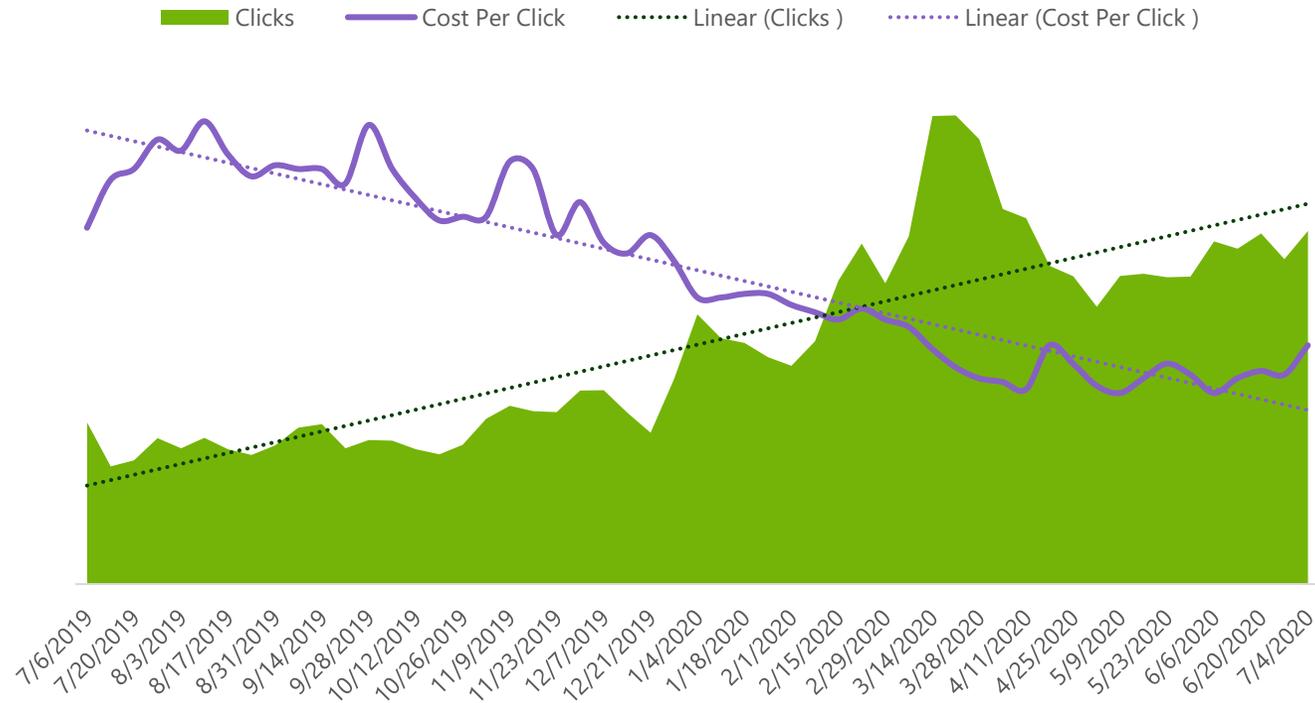
lift in clicks post-exposure¹

1. Jan 2019 – Mar 2020; Exposed vs. Control lifts for both clicks and searches per user; Searches based on ad flag for selected advertiser and other advertisers in that vertical. On average, those clients saw the reported lift in Search Impressions per user and reported lift Search Clicks per user for exposed users compared to those who were not exposed to an ad on the Microsoft Audience Network. This is based on a **sample of our pilot advertisers** and is not a marketplace lift. The experienced lift is on a **per-user basis for the exposed users**, not the advertisers' full search program. Technology & Telecommunications Advertisers



Audience Network click volume continues to trend upward for Tech while CPC improves

All-up Microsoft Audience Network Tech & Telco clicks & CPC trends

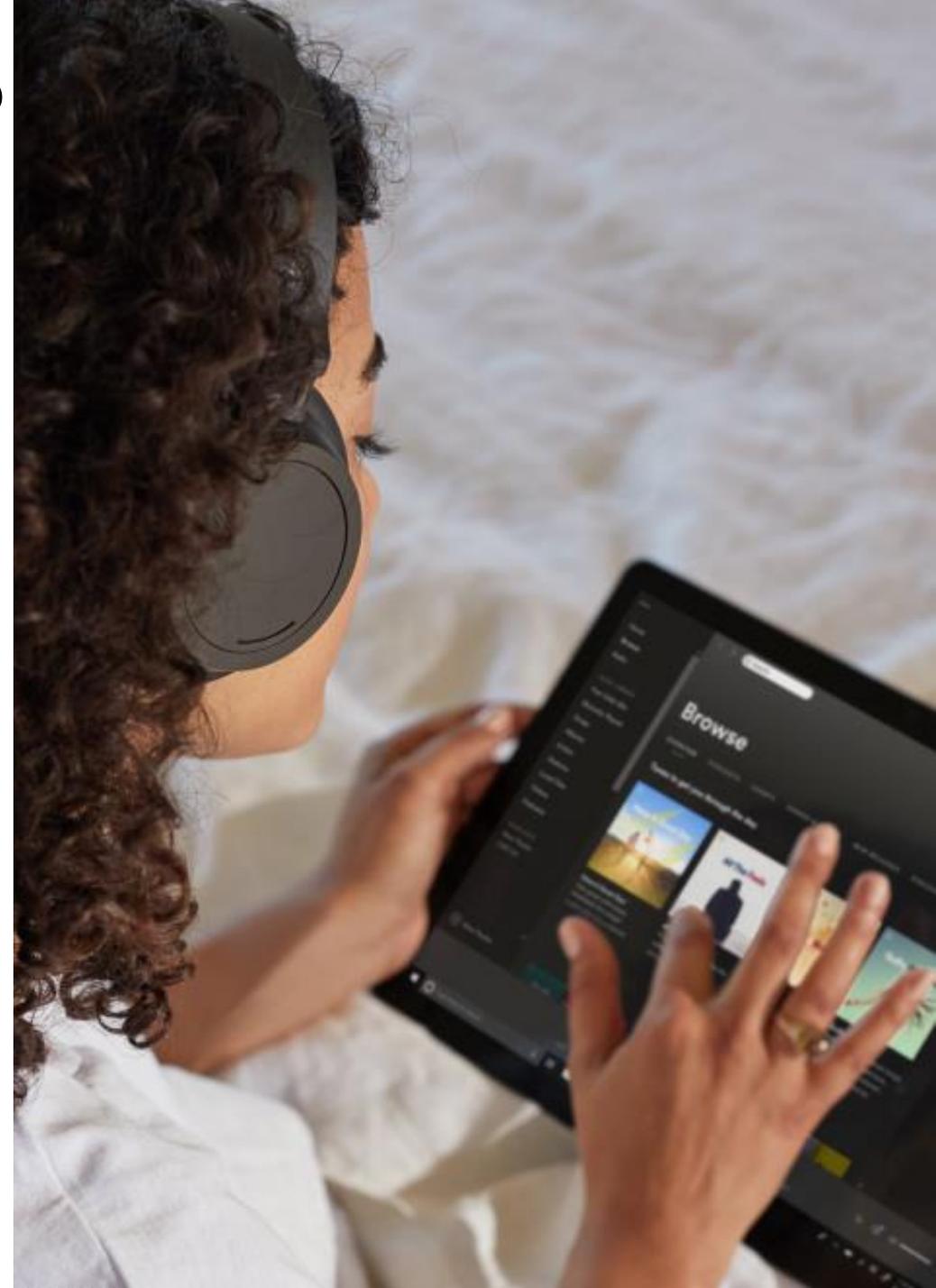


Click volume for Technology & Telecommunications advertisers on the Microsoft Audience Network has seen significant growth in 2020

Ensure the Audience Network is a part of your Microsoft Advertising plan for 2020 Device Launches

Microsoft Advertising; 2020

1. Excludes non-Back-to-School Retail categories



Activate device launch trends across different campaign types and strategies



Activate an important COVID-19 takeaway by featuring differentiation and messaging around cost, speed, and bandwidth



Respond to COVID-19 search trends by reaching users with messaging and promotions in which they're interested in during increased stay-at-home periods and demand for high speed internet

Activate device launch trends across different campaign types and strategies



Activate an important 5G takeaway by continuing your quest to educate, differentiate, and incentivize 5G plans

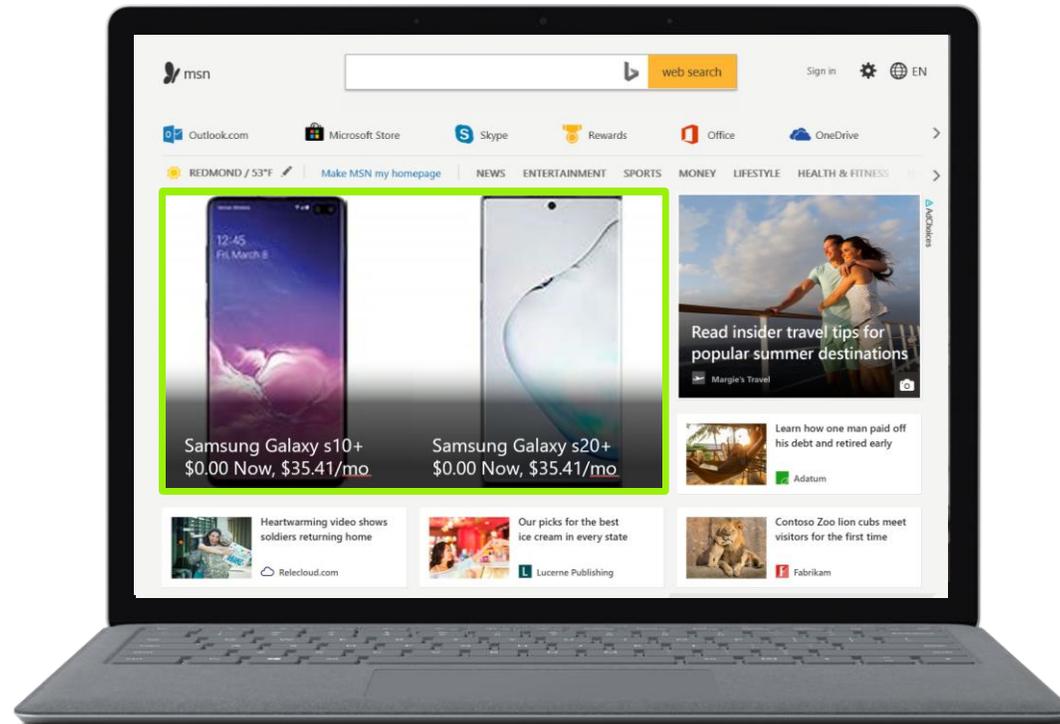


Respond to increased demand for high-speed internet and 5G products by promoting your high-speed 5G plans and devices to highly targeted audiences in a premium, visible environment

Expand your shopping reach through feed-based shopping native ads

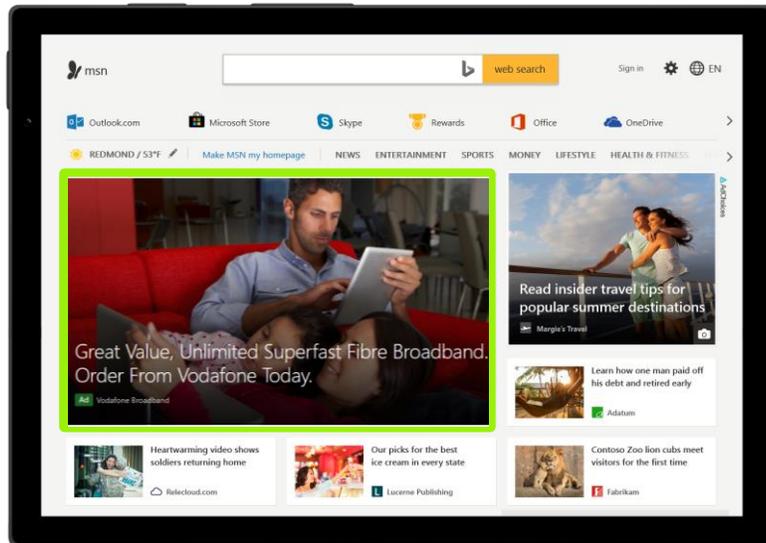
Use your existing Shopping Campaigns feed from search

When combined with Microsoft AI intent signals, we'll match searchers with the items in your feed that they've shown interest in



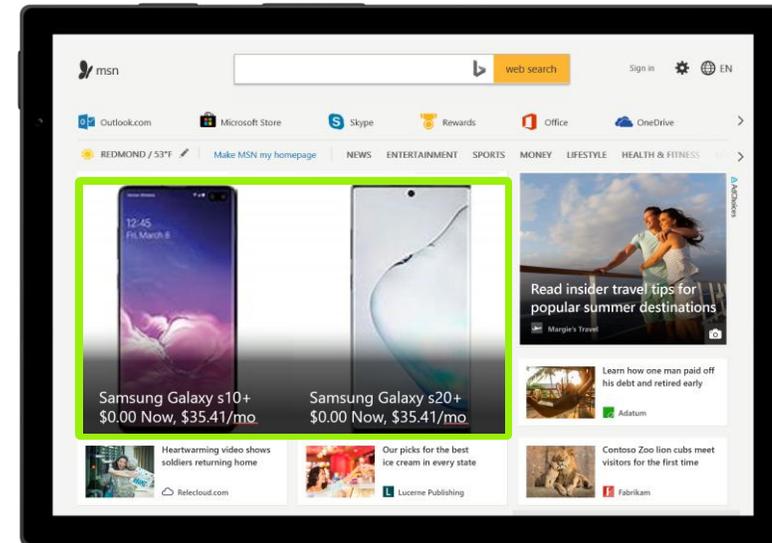
Advertisers running **Product Audiences**¹ see a 19% higher lift in clicks compared to the average search lift

IMAGE ADS



Tech & Telco Image Ads lift
Impression lift: **27%**
Click lift: **47%**

PRODUCT ADS

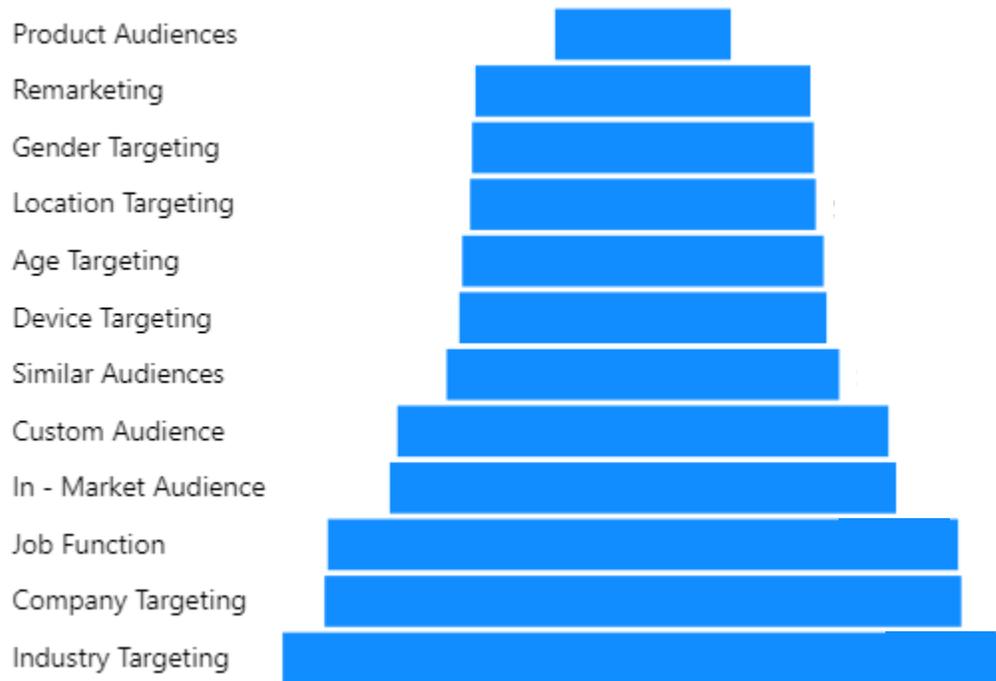


Product Ads lift:
Impression lift: **83%**
Click lift: **95%**

Activate across targeting features to maximize reach and click volume

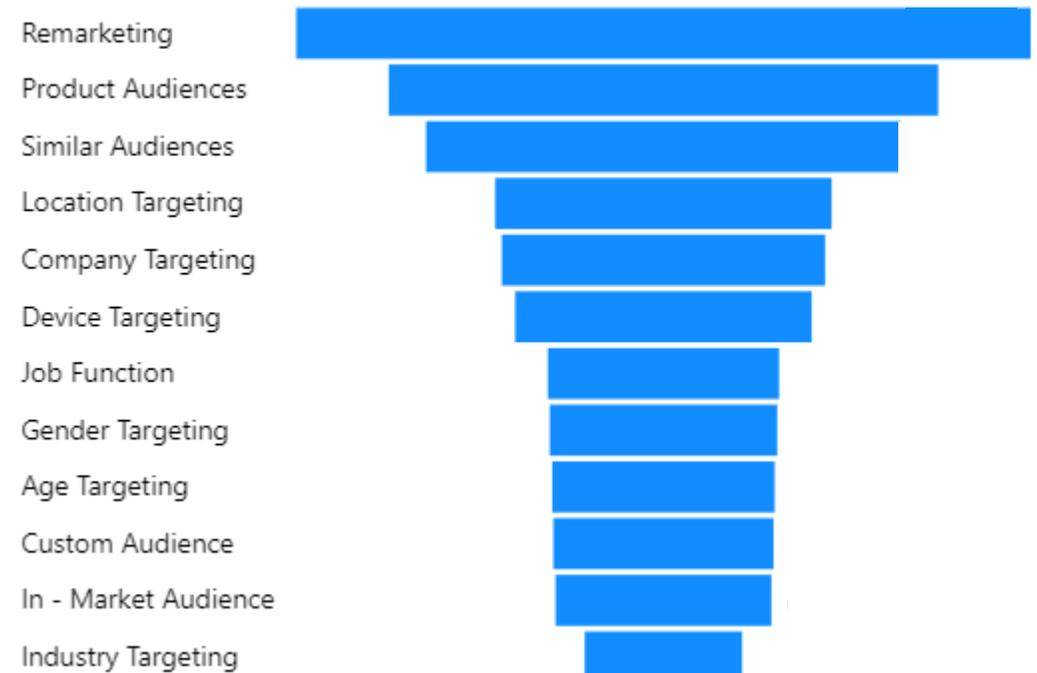
Apply bid modifiers to individual segments to maintain efficiency

Feature CPC



Product Audiences, Device Targeting, and Location Targeting offer the lowest CPC for Technology & Telecommunications advertisers

Feature CTR



Remarketing, Product Audiences, and Similar Audiences generate the highest CTR for Technology & Telecommunications advertisers

Next Steps Summary

COVID-19

- Prepare for this holiday season to be online-shopping heavy
- Ensure proper coverage for shopping campaigns
- Consider conquest terms during launch
- Communicate messaging around unlimited plans and bandwidth

Projections

Forecasts show positive momentum in search traffic through the end of 2020, meaning device launch traffic could beat that of previous years and advertisers should plan to meet this demand. Delayed launch dates would likely not impact volume, just prolong the spikes.

Searches for older phone models changed trajectory (started trending upward) post-COVID-19. This trend is predicted to continue through the end of the year, indicating that advertisers should maintain some focus on older models.

5G

- Expect Hardware and Software conversions to spike together throughout the year, but not necessarily during the holiday months
- Carriers need to continue their quest to educate, differentiate, and incentivize 5G plans through brand and non brand efforts
- Anticipate a big surge in 5G phones as Apple launches its first 5G device – the appetite is already there even without 5G iPhones now. Carriers need to leverage this launch to their advantage.

Query path

- Expand or fortify keyword portfolio to be inclusive of higher volume non-brand terms. Even more so on influential non-brand terms such as “best smartphones”.
- Trend traffic by device does not change much in terms of how the consumer searches. Make sure you are visible on all devices for all keywords.
- Showing up for your brands queries is more important than ever before

Audience insights

- Take advantage of overlapping audiences to broaden your advertising reach
- Retarget users who have previously purchased an iPhone or Samsung phone
- Allocate some budget for those who are also looking to switch phone brands and cross shop (conquest)
- Price may be an even bigger selling point for phones this year due to the pandemic, so promotions around key times is essential to growing sales

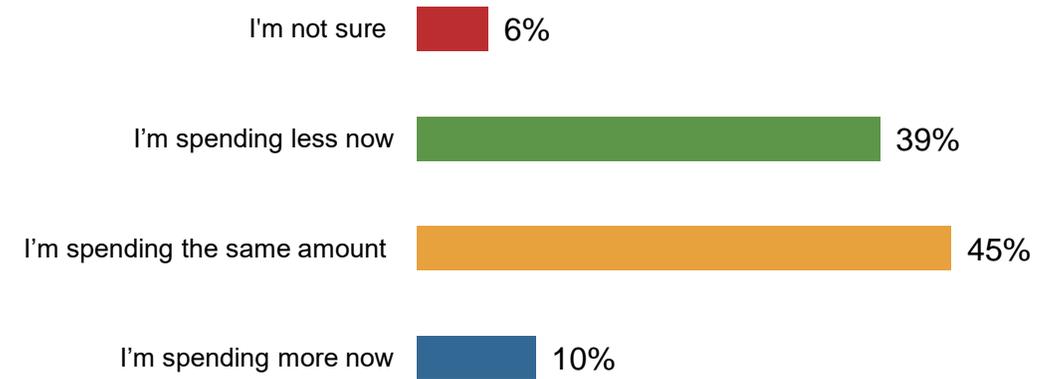
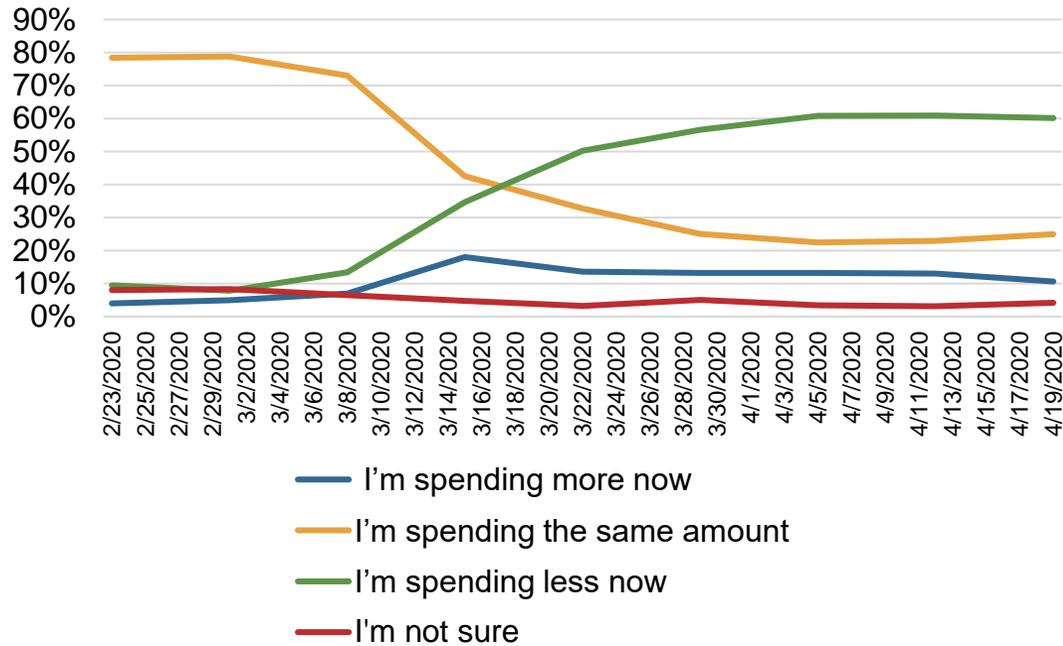
Microsoft Audience Network

- Take advantage of a growing network to extend activations into the Microsoft Audience Network
- Promote messaging around cost, plans, and bandwidth as a response to COVID-19
- Reach users who are interested in 5G with your brand’s unique value proposition and differentiation in the 5G space
- Target similar audiences in Microsoft Audience Network as Search, while also testing new segments

Appendix

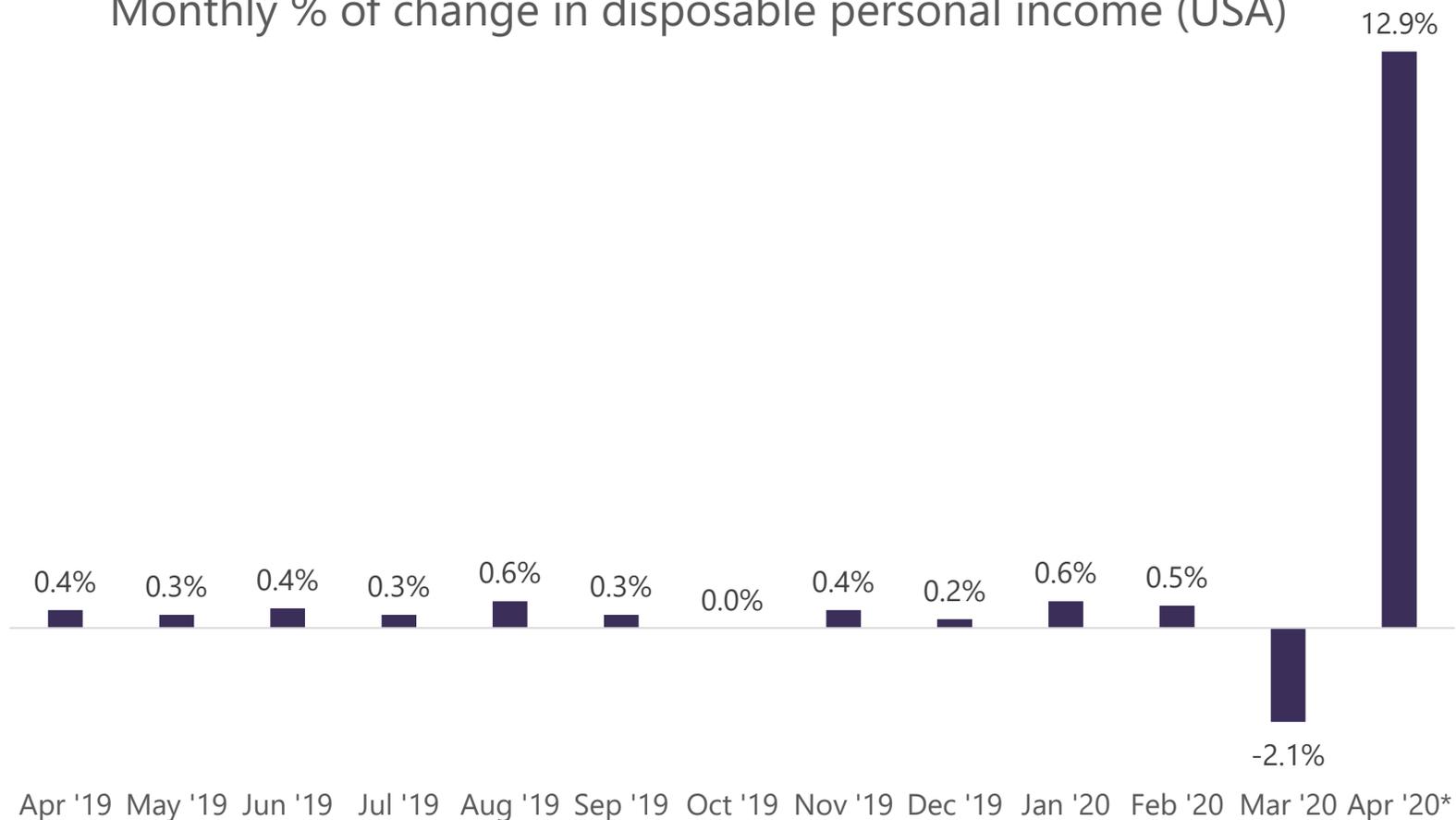
Just under half of consumers are spending less during the pandemic

How has the COVID-19 outbreak affected your spending overall?



What are consumers doing with their disposable income during the pandemic?

Monthly % of change in disposable personal income (USA)



Source: [Statista](#) 2020

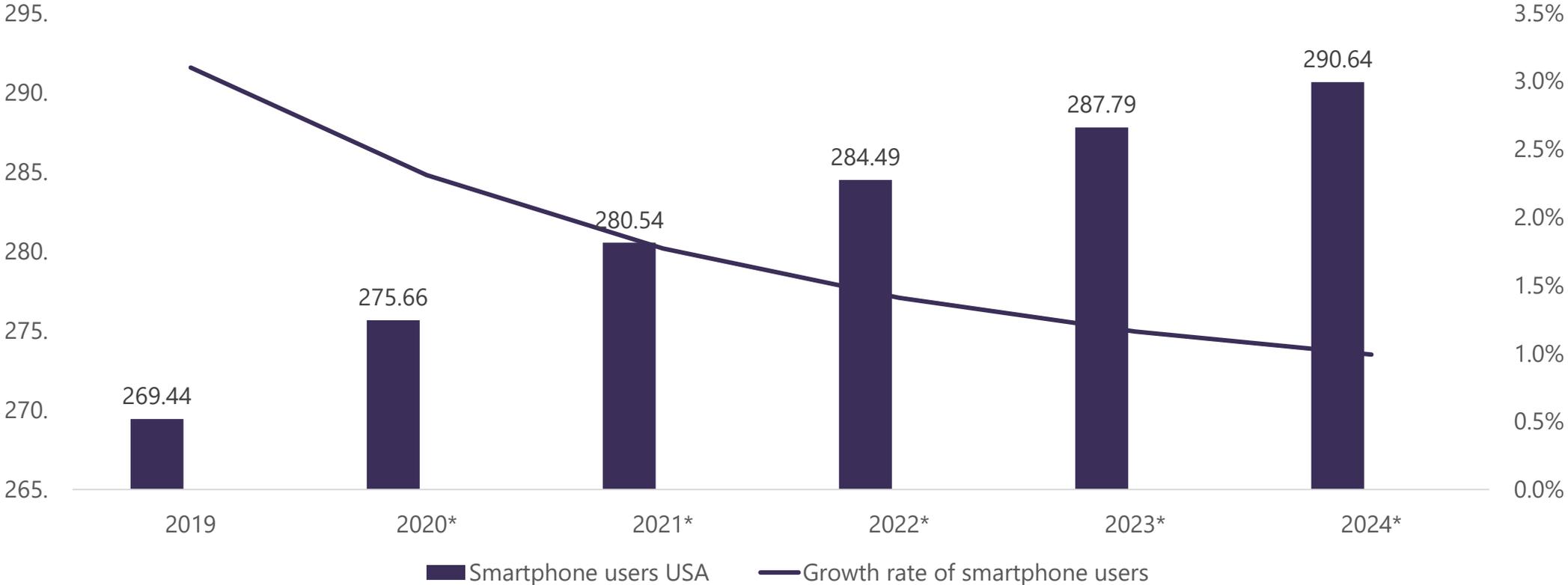
What are people doing with this extra disposable money?

- Personal savings rate hit a historic level of 33% in April
- Personal spending decreased by 13.6%
- Consumers are crediting a combination of unknown circumstances in the near future along with a decrease in opportunities to go out and spend (with businesses closing up... "shopportunities" are limited)

- www.cnbc.com

Estimated growth of smartphone users in U.S. (in millions)

New user numbers are estimated to continually decline in the years ahead

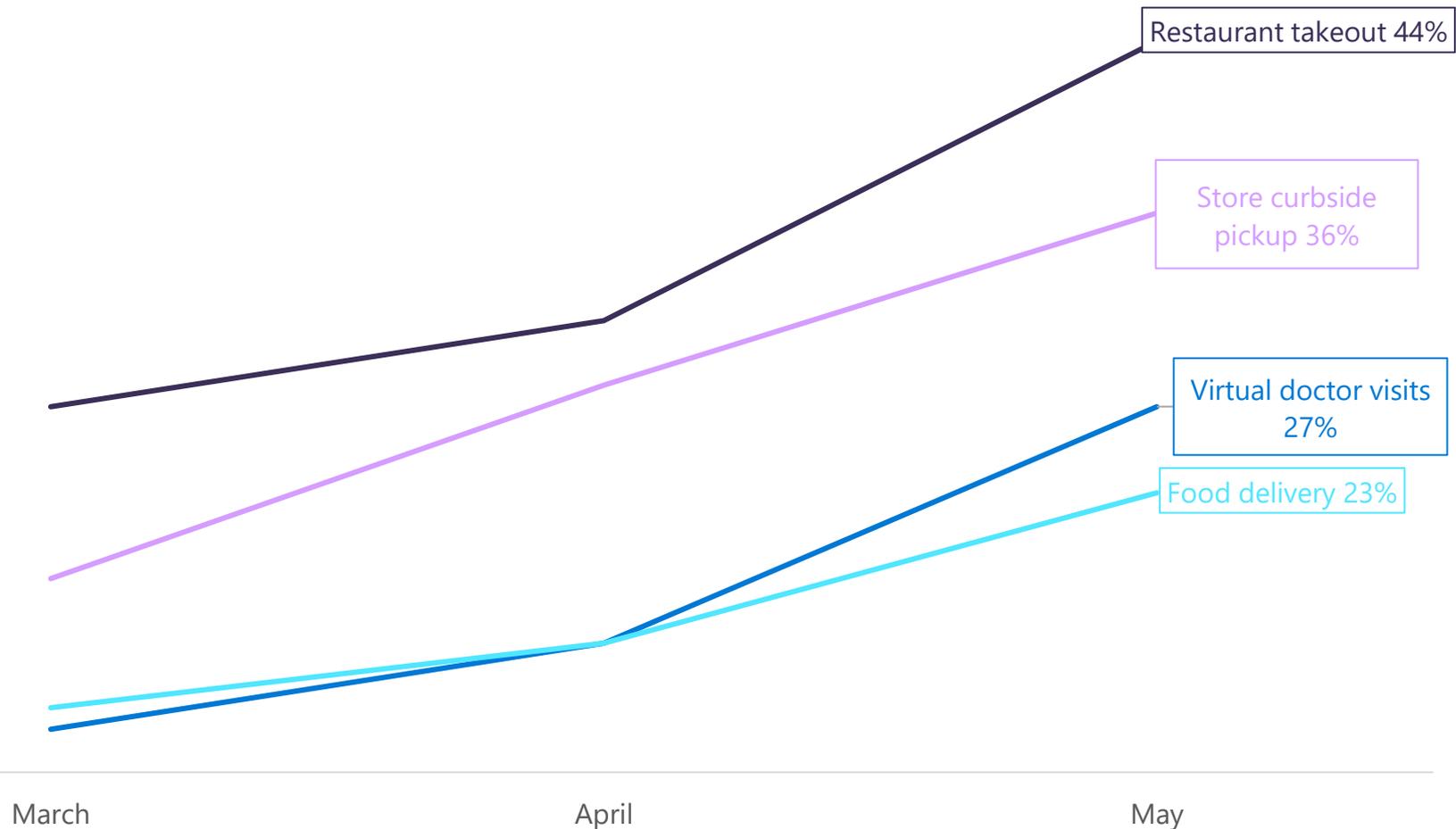


Source: [Statista](#) 2020



Where customers are starting to bounce back

U.S. customers are becoming more comfortable with low-contact commerce

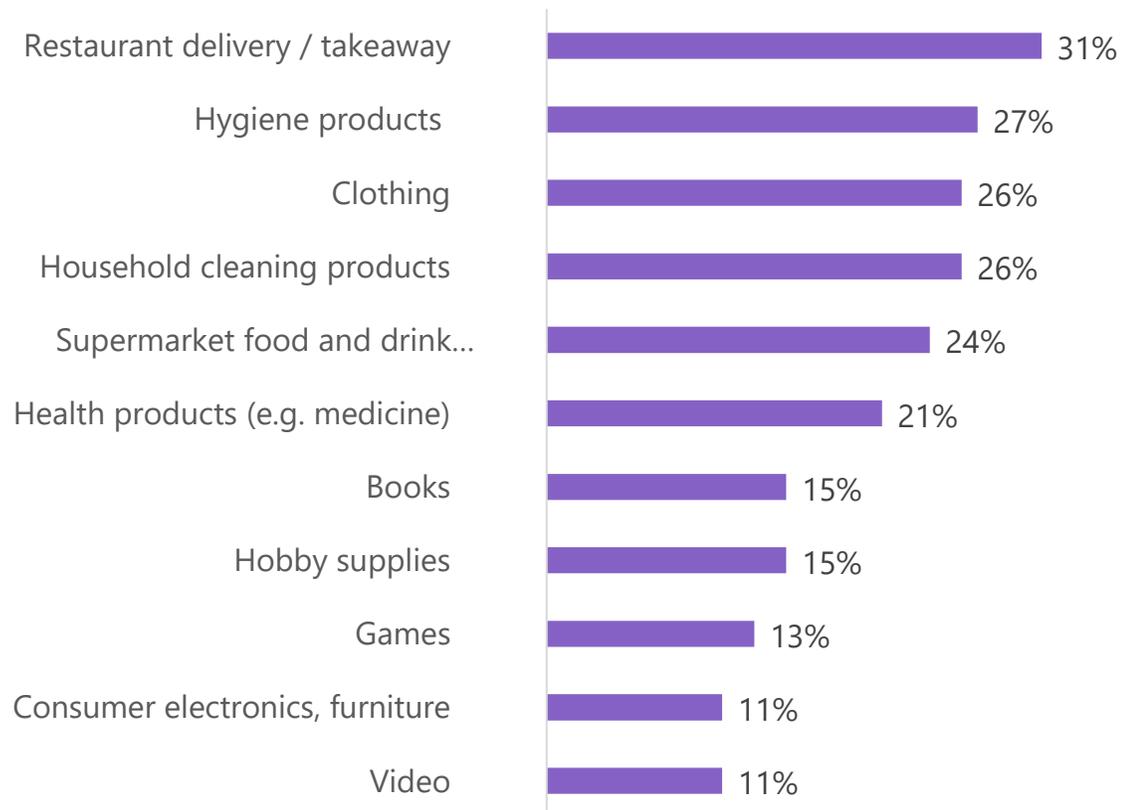


Who is doing this increase in shopping?

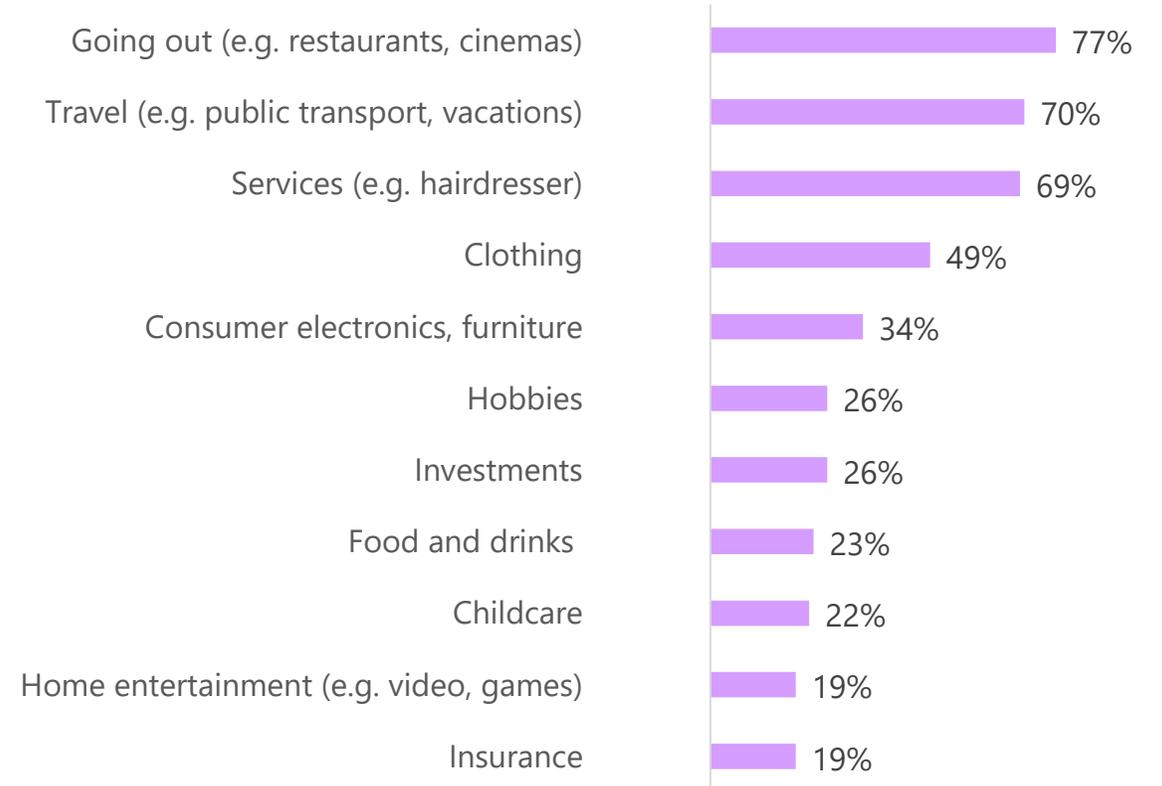
50% of adults between 18 – 44 said they are more comfortable getting takeout in May vs. April, compared to **43%** of those aged 45-64, and only **34%** of those over 65 years old

How COVID-19 has shifted how people shop in the U.S.

Items/services shoppers are acquiring online compared to in-store



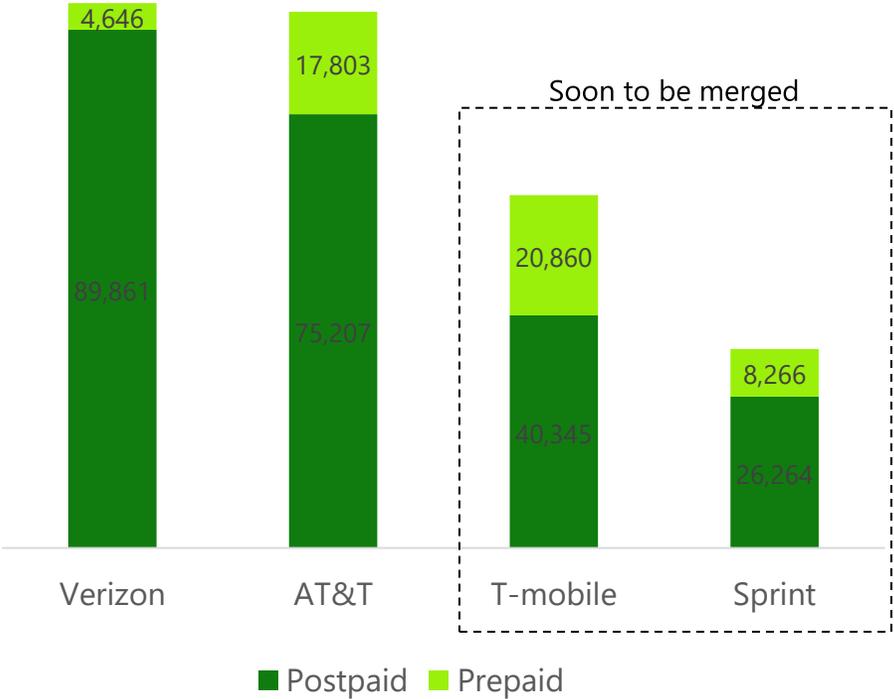
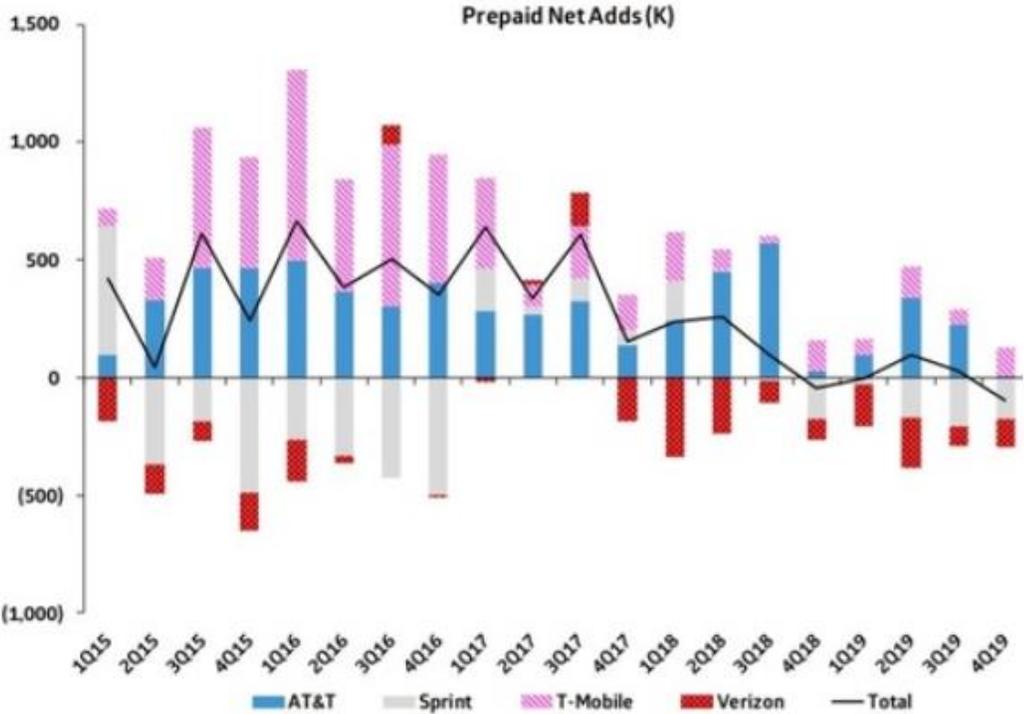
Items shoppers say they are spending less on



Cell phone plans – comparing prepaid to postpaid

U.S. wireless carriers lost 238K prepaid in Q4 of 2019, and over 330K prepaid customers over 2019

Breakdown of postpaid to prepaid customers per carrier



Microsoft Network consumers are split on how they will spend on technology after the pandemic is over

Home Technology



47% say they will spend the same or more when the pandemic is over

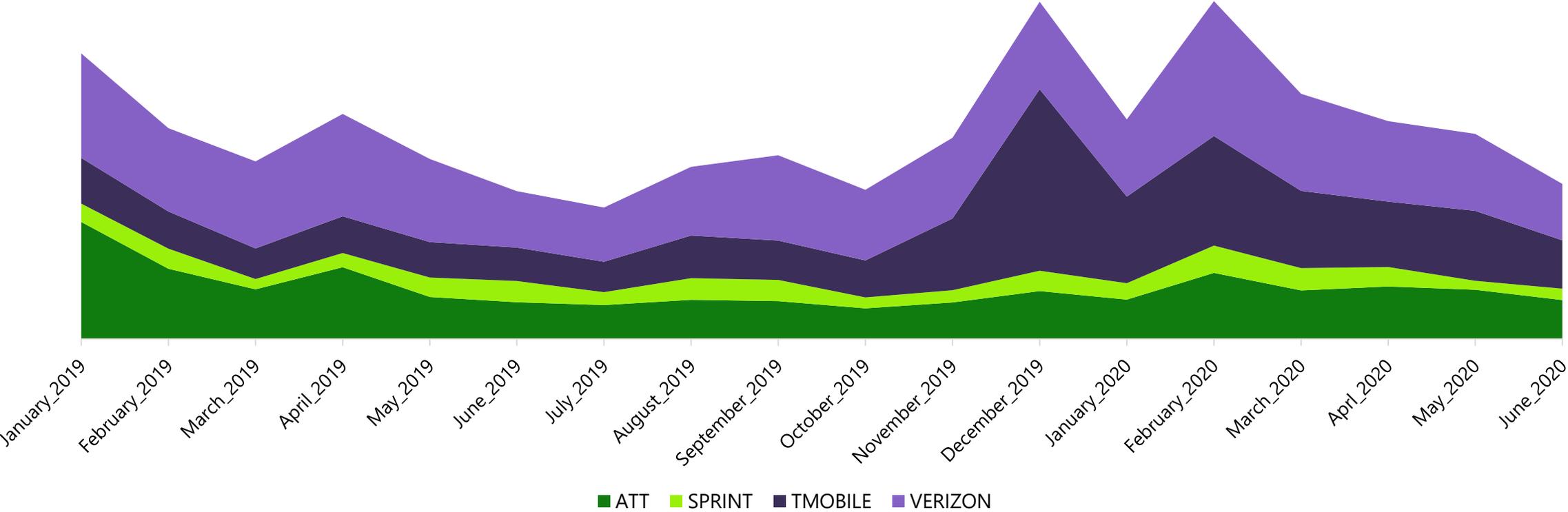
52% of males / 43% of females agree

35-54s are more likely to spend the same or more as 51% agree



Carrier 5G queries remain high in 2020

2019-2020



Source: Microsoft Advertising Internal Data 2019- June 2020



The beginning of a path can illuminate what a consumer will likely click on at the end of their path. This was the result of the 2019 season:

When a path starts with a "postpaid carrier" related query

87% of the paths ended on a Postpaid Carrier click, 7% of last clicks were Prepaid Carrier, 1% were Samsung, 2.5% were non-brand, and the remaining 2.5% were Apple

When a path starts with a "prepaid carrier" related query

66% of the paths ended on a prepaid click, 25% postpaid carrier clicks, 3% were non-brand, 1% were Samsung, and 3% of last clicks were Apple Hardware & 2% Other

When a path starts with a "apple hardware" related query

54% of the paths ended on a Carrier click 30% of last clicks were Apple Hardware, 9.5% were Prepaid, 1.5% were Samsung, 4% were non-brand, 1% Other

When a path starts with a "samsung hardware" related query

51% of paths ended in a Postpaid Carrier click, 24% Samsung, 11% Prepaid Carrier, 7% Apple, 6% non-brand, and 1% were Other Hardware clicks

When a path starts with a "non-brand" related query

62% of paths ended on a Postpaid Carrier click 14% were Prepaid, 13% were non-brand, 8% were Apple, 3% were Samsung