

Consumer United Kingdom Report

Table of Contents

01 Introduction

AR is the next form of mobile engagement, elevating the consumer experience and setting new expectations for digital engagement.

02 AR's Impact on Brands

AR is a critical tool for brands to stand out and deliver customer value and confidence.

03 AR is Evolving Fast

AR cannot be ignored as the new, rapidly-growing consumer experience that will soon be everywhere, all the time.

O4 AR is Here Today and Here to Stay

AR is already here, widely recognized as both fun and useful and driving fast adoption and growth.

05 Conclusion

There is an imperative to meet consumer's AR demand, and now is the time to act for brands, platforms, and developers.





Introduction



AR adoption is tracking with the mobile usage boom - by 2025, almost 45% of the UK's population and almost all people who use social / communication apps will be frequent AR users.¹



73% of people successfully identify AR when they see it², but when talking about it, they have a hard time defining or describing what it is.



67% of Snapchatters in the UK and across generations use AR to have fun; the majority are discovering AR through social / communications apps.³



AR is generally seen as a "toy", but **69% of people expect and desire to use it as a practical "tool"** in their everyday lives.⁴



Interacting with products that have AR experiences leads to a **94% higher conversion rate.**⁵





^{1:} See additional methodology details in appendix

^{2: 2021} Global Deloitte Digital Study commissioned by Snap Inc.

Base = Aggregate average (n=764)

Q: AR Recognition for 9 examples 3: Base = Snapchatters (n=349)

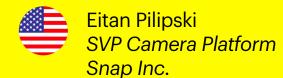
Q: Why do you use AR?

^{4:} Base = Aggregate (n=726) Q: Augmented Reality is useful / Augmented Reality is not useful | A: Agree much

more with A, Agree somewhat more with A

^{5:} Harvard Business Review <u>Article</u>, "How AR is Redefining Retail in the Pandemic"

There is something really unique happening right now – an incredible number of hobbyists and professionals are using AR. Downloading tools across the Snap AR platform. They're taking time to learn, they're curious."

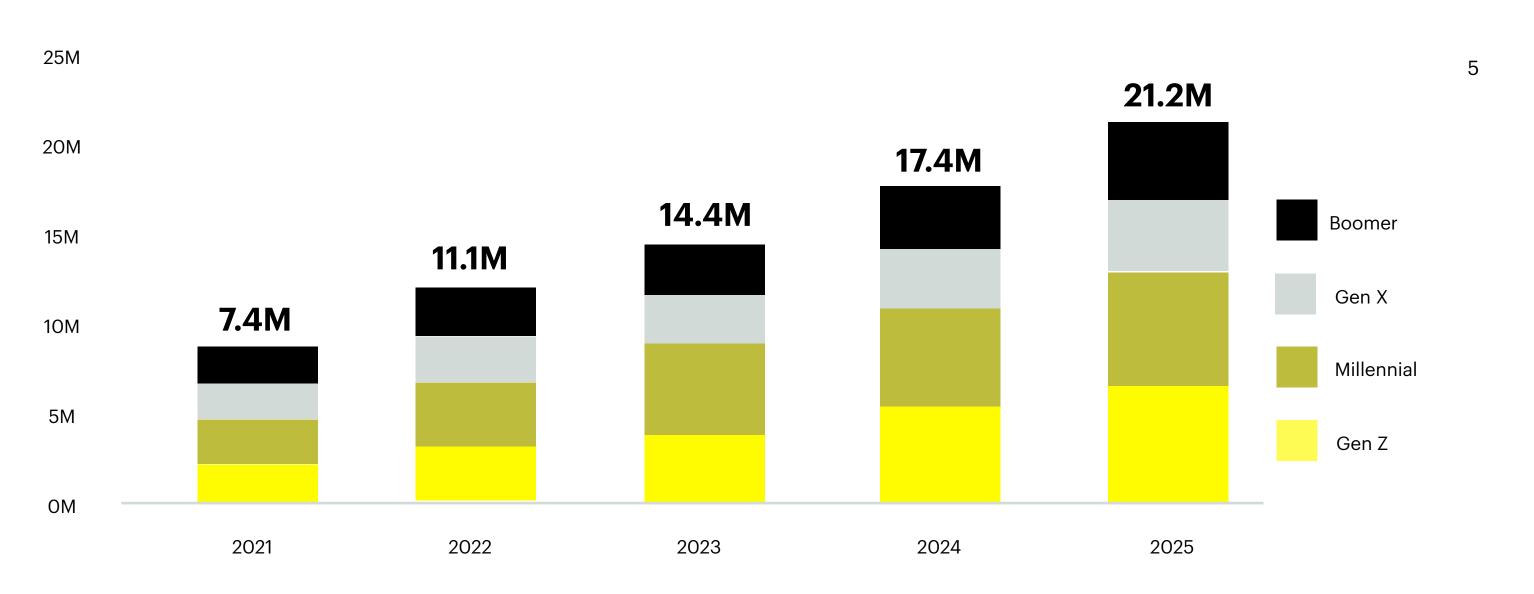


AR is growing

By 2025, **almost 45%** of the UK's population* and almost all people who use social / communication apps will be frequent AR users.¹

Frequent AR Consumers

Based on people ages 13-69 who use social / communication apps





Younger generations and Snapchatters are driving AR growth

Age Differences



Younger people are **84%** more likely to use AR,¹

and they are **35% more** likely to believe AR is important in their lives.²

But, AR is not just for Gen Z; Millennials and Gen X show the highest affinity for AR.³

Snapchatters



Snapchatters are **2.4x as likely** to use AR to connect with others.⁴

Snapchatters are **51% more likely** than Non-Snapchatters to try new tech, like AR, before their friends and family.⁵

1: 2021 Global Deloitte Digital Study commissioned by Snap Inc.

Base = Age 13-24 (n=56), Age 25+ (n=36)

Q: How familiar are you with AR? | A: I use AR all the time

2: Base = Age 13-17 (n=61), Age 35-44 (n=52)

Q: AR is important to me / AR is not important to me | A:

Q: AR is important to me / AR is not important to me | A: Agree much more with A, Agree somewhat more with A 3: Publicis Groupe & Snap Inc. Study

Base: Gen Z (n=1,261), Millennials (n=1,632), Gen X (n=1,107)

QP7A: Thinking about your expected use of AR technology post-COVID, do you expect to start using AR? Please select one response 4: 2021 Global Deloitte Digital Study commissioned by Snap Inc.

Base = Snapchatters (n=131), Non-Snapchatters (n=56)

Q: Why do you use AR?

5: Base = Snapchatters (n=94), Non-Snapchatters (n=63)

Q: We're curious about your feelings towards technology in general. Please select the answer you agree with most.

As AR evolves, it will revolutionize our lives and will become as significant of a technology shift as the web or mobile was to society, changing how we view and interact with the world around us."







AR's Impact on Brands

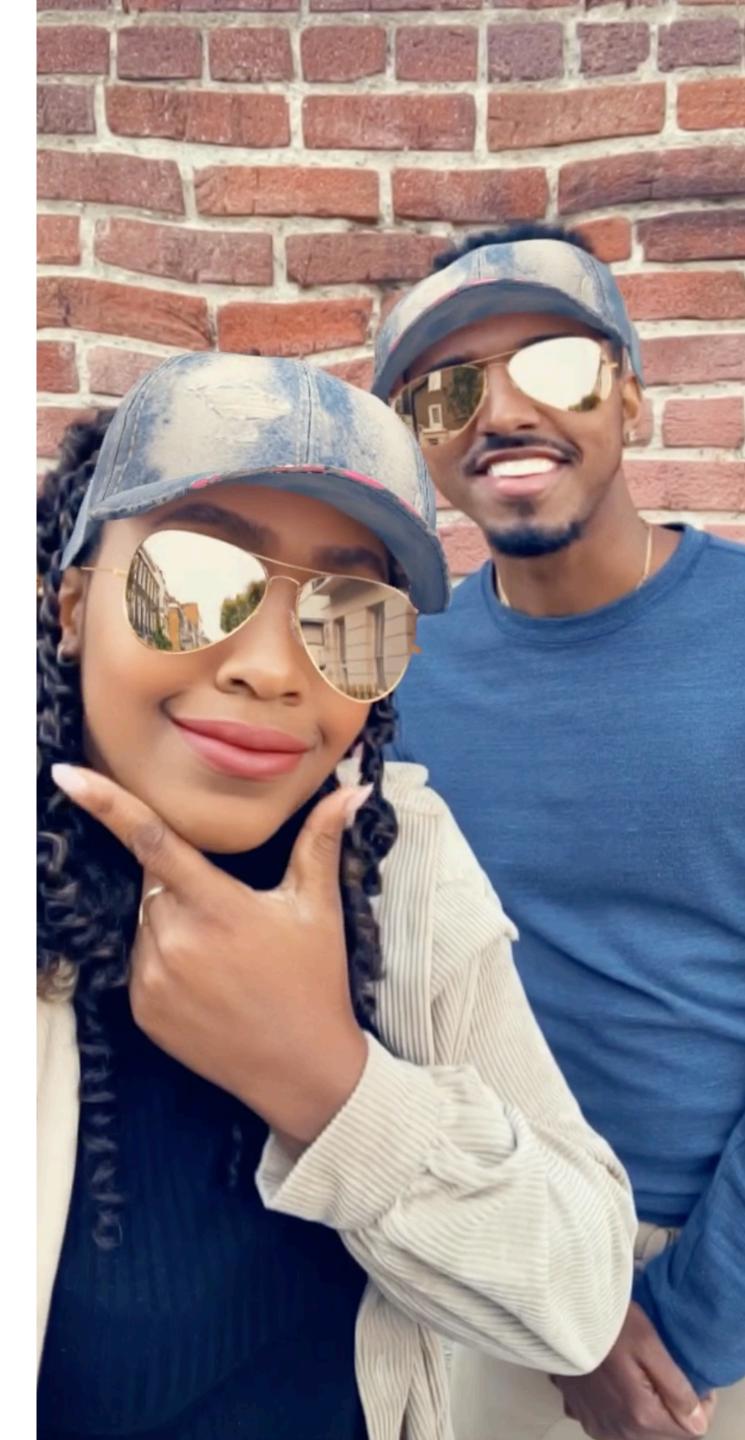
A lot of people are using AR to make purchase decisions... and plan to keep doing so

There are

100 million consumers

shopping with AR online and in-stores.¹

of Snapchatters agree they'll use AR the same or more when shopping next year.²



AR captures consumer attention

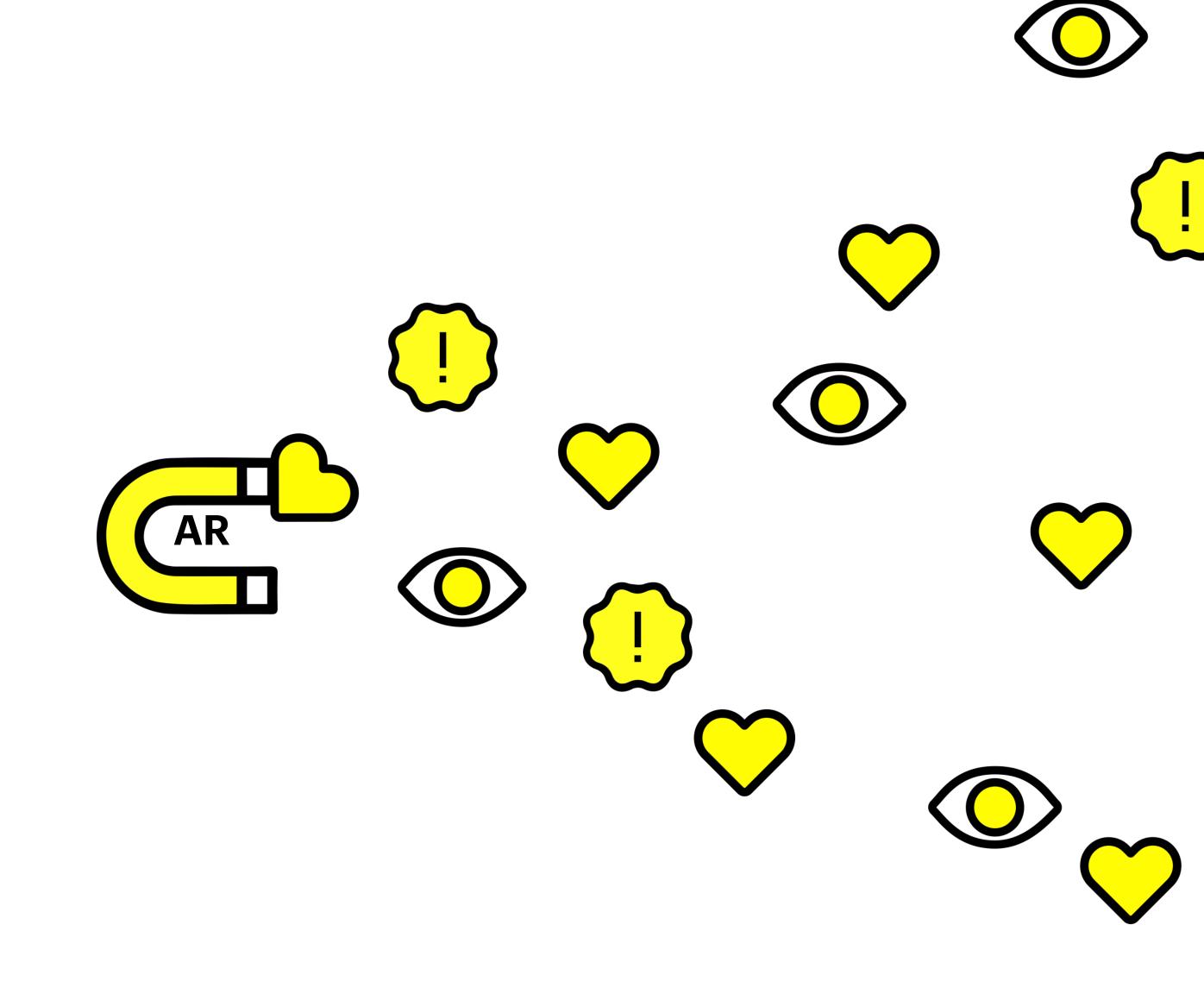
AR delivers almost

2x the levels of visual attention compared to their non-AR equivalent,

leading to improved memories and more powerful responses from consumers.¹



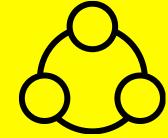
Snapchatters who frequently use AR with their family and friends are 53% more likely to pay attention to a brand.²



Brands and people connect better with AR experiences

Brands are

more likely to be considered if they have a branded AR experience.¹



Snapchatters are **45% more likely** than Non-Snapchatters to share a brand's AR experience with friends and family.²

1: 2021 Global Deloitte Digital Study commissioned by Snap Inc.

Base = People who use AR all the time or have used AR before (n=201)

Q: How familiar are you with AR? | A: I use AR all the time, I have used AR before | Q: Sometimes brands will create AR experiences through an app camera (e.g., a big movie company makes an AR experience where the heroes of a movie are fighting next to you, or a restaurant provides you a lens/filter/effect that turns you into a hamburger). What impact, if any, does interacting with that AR experience have on your perception of that brand? | A: I am more likely to pay more attention to the brand, I am more likely to share a brand's AR experience with friends and family, I am more likely to consider their products
2: Base = Snapchatters (n=94), Non-Snapchatters (n=66)

Q: Sometimes brands will create AR experiences through an app camera (e.g., a big movie company makes an AR experience where the heroes of a movie are fighting next to you, or a restaurant provides you a lens/filter/effect that turns you into a hamburger). What impact, if any, does interacting with that AR experience have on your perception of that brand? | A: I am more likely to share a brand's AR experience with friends and family

AR builds consumer confidence

43%

of Snapchatters agree that AR makes browsing and / or shopping more rewarding.¹



Over half

of people want to use AR technology to assess products, allowing for a risk free, "try-before you buy", experience.²



Nearly 3 in 4 consumers

say they're willing to pay more for a product that promises the total transparency that AR can provide.³

Returns are a \$550 billion problem, which AR can help fix. AR-guided purchases led to a **25% decrease** in returns.⁴



1

Deloitte.

Digital

The results are in

AR interactions drive conversion

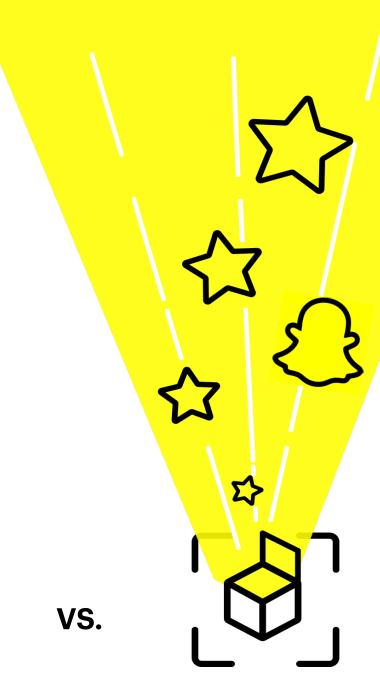
adidas has been able leverage AR in a way that has made consumers aware of their company values (sustainability leadership), which has played a large role in engaging consumers."



Senior Manager Operations and Digital Optimisation

Interacting with products that have AR experiences leads to a

higher conversion rate, as individuals can better assess them and feel connected with brands.1



Snapchatters who have interacted with a brand's AR experience are almost 20% more likely to purchase products through the app where they saw it.²

1: Harvard Business Review Article, "How AR is Redefining Retail in the Pandemic"

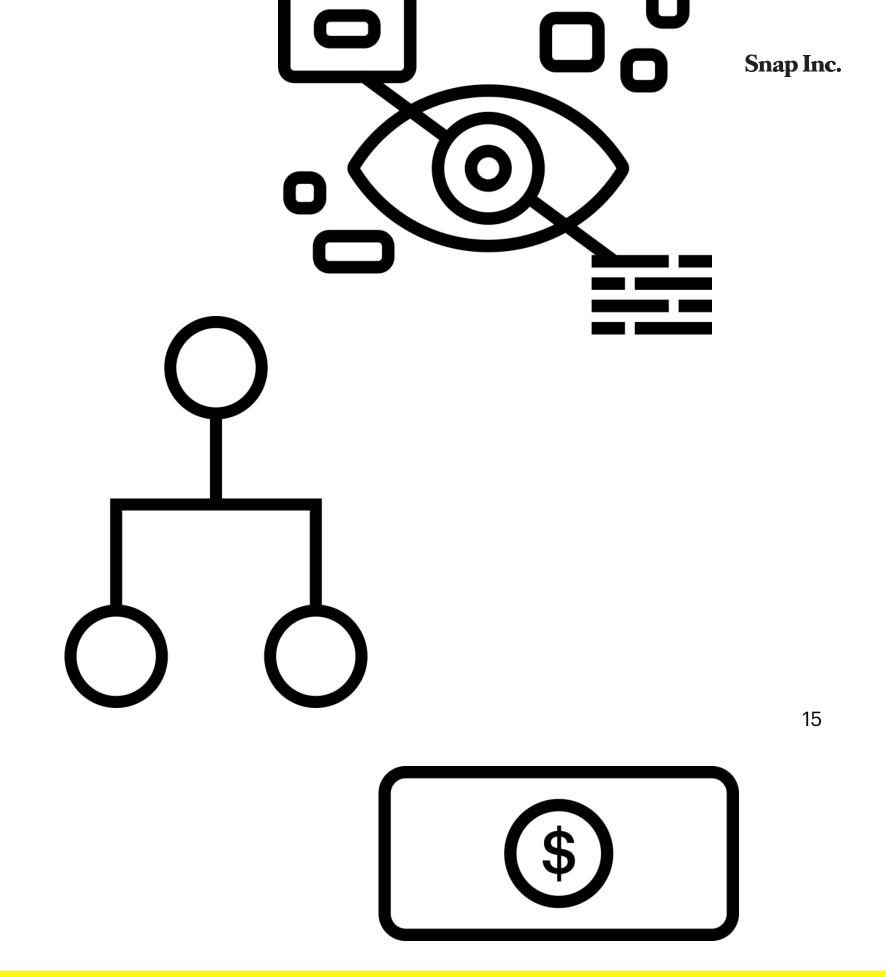
2: 2021 Global Deloitte Digital Study commissioned by Snap Inc. Base = Snapchatters (n=85)

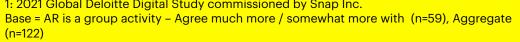
Q: Sometimes brands will create AR experiences through an app camera (e.g., a big movie company makes an AR experience where the heroes of a movie are fighting next to you, or a restaurant provides you a lens/filter/effect that turns you into a hamburger). What impact, if any, does interacting with that AR experience have on your perception of that brand? | A: I am more likely to purchase their products through the brand's website



AR connections drive revenue

Consumers who view AR as a social activity are **42% more likely** to purchase products from the brand.¹





Q: AR is a group activity / AR is a solo activity | A: Agree much more / somewhat more with A | Q: Sometimes brands will create AR experiences through an app camera (e.g., a big movie company makes an AR experience where the heroes of a movie are fighting next to you, or a restaurant provides you a lens/filter/effect that turns you into a hamburger). What impact, if any, does interacting with that AR experience have on your perception of that brand? | A: I am more likely to purchase their products through the brand's app where I saw the brand's AR experience 2: Base = Snapchatters (n=82), Non-Snapchatters (n=41)



- Snapchatters are **105% more likely** than Non-Snapchatters to have over half of their friends and family using AR.²
- Snapchatters share AR photos and videos with friends and/or family **115% more** than Non-Snapchatters.³



Q: How many of your friends and family do you think use AR today? | A: 60-80%, Over 80% 3: Base = Snapchatters (n=146), Non-Snapchatters (n=69)

Q: How often do you capture or share photos and videos with your friends and/or family? | A: Several times each day



AR is Evolving Fast

Boomer

Millennial

Gen Z

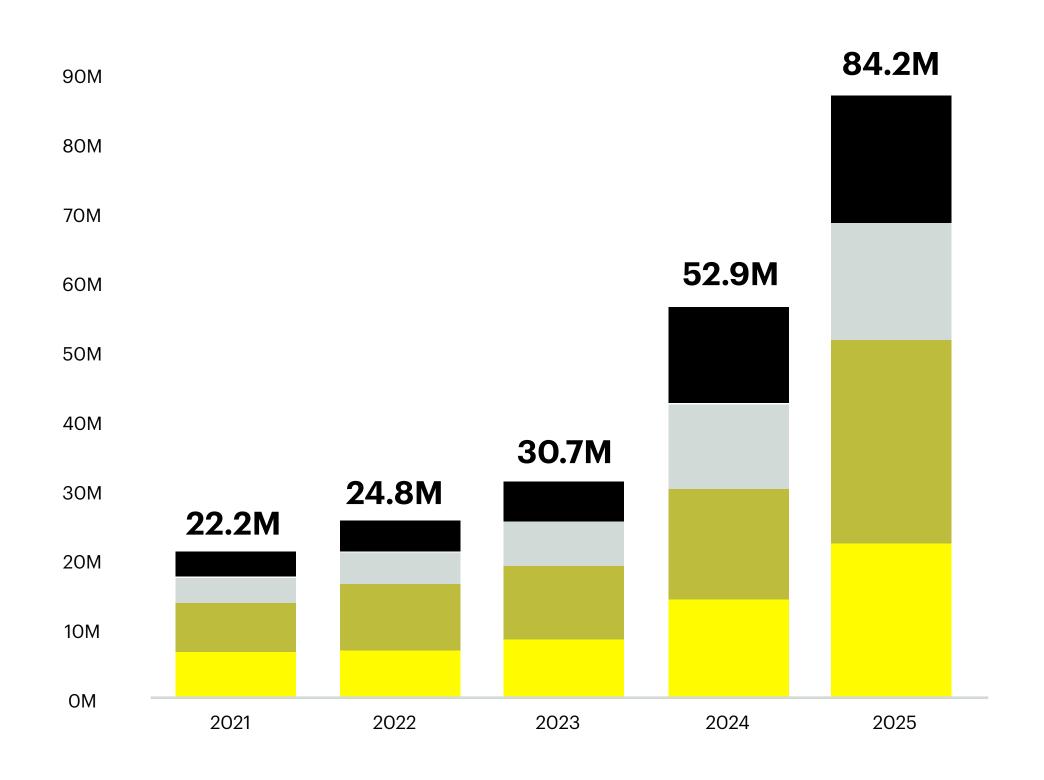
Over 22 Million AR photos and / or videos are taken daily by consumers

AR use will grow with an increase in awareness and access to AR experiences and content.



AR Photos / Videos Per Day¹

Generational Breakout of Daily AR Photos / Videos Created





2021-2025 CAGR of AR Photos / Videos per Day.¹





AR is Here Today and Here to Stay

Where do Snapchatters use AR most today?

84% of Snapchatters use AR primarily in their homes.¹

> Snapchatters predominantly use AR at home and do so for a wide range of uses.

What are Snapchatters using AR for at home?²

Media & Entertainment

75%

Today's use cases most align with activities you would do at home, and 91% say they will use AR at home the same or more than last year.³

^{1: 2021} Global Deloitte Digital Study commissioned by Snap Inc.

Base = Snapchatters (n=421)

Q: Where do you typically use AR? Please rank the locations from where you use AR the most to the least. | A: At Home Rank 1st 2: Base = Snapchatters at home - Communication (n=314), M&E (n= 121), Gaming (n=133), Shopping (n=108)

Q: Where do you typically use AR? Please rank the locations from where you use AR the most to the least. | A: At Home Rank 1st | Q: How often do you use AR for any of the following reasons? | A: Several times each day, Once a day, Several times a week,

Once a week, A few times a month, Once a month

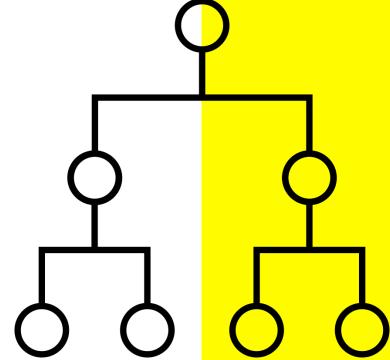
^{3:} Base = Snapchatters (n=477) Q: How will your total AR usage compare to last year? - At home | A: I will use AR more than last year, I will use AR about the same amount as last year

How are Snapchatters learning about AR?





People who see AR as a group activity are 115% more likely to see AR everywhere.2



1: 2021 Global Deloitte Digital Study commissioned by Snap Inc.

Base = Snapchatters (n=398)

Q: Where did you first discover AR content? | A: I saw people I know using it on social media, communication, and camera apps, I saw it in an advertisement on a social media, communication, or camera app, I stumbled across it while exploring viral content on social media, communication, or camera app, I saw celebrities / influencers use it on social media, communication, and camera apps, I read about it on a blog / forum, I heard about it from friends / family. in-person

^{2:} Base = AR is a group activity - Agree much more / somewhat more with (n=116), AR is a solo activity - Agree much more / somewhat more with (n=103)

Q: AR is a group activity / AR is a solo activity | Q: I see AR everywhere / I don't see AR anywhere | A: Agree much more / somewhat more with A

Why do they use AR?

TECH: OSMOSIS

"I didn't even realize I was using it"

TOY:

JOY

"I want to have fun and connect with friends"

TOOL:

UTILITY

"I need to and it's useful"

TOTALITY: UBIQUITY

"It's everywhere and commonplace"



The key is harnessing AR in a very intuitive way. Partnering with Snap allows us to bring our products to life in an exciting new way."



What are Snapchatters using AR for, today?

Communication



44% to be more creative¹

Gaming



46% to make gameplay more interactive²

Media



36% to make what they are watching more enjoyable³

Shopping



45% to try products out⁴

1: Base = Snapchatters (n=84)

Q: How does AR impact your communication experience? 2: Base = Snapchatters (n=94)

Q: How does AR impact your gaming experience? 3: Base = Snapchatters (n=52)

Q: How does AR impact your entertainment experience?

4: Base = Snapchatters (n=96)

Q: How does AR Impact your browsing and/or shopping experience?

What are Snapchatter using AR for, today?1

62% **Home Décor**

61%

43% **Beauty and Wellness**

40% **Entertainment**

37% Household goods

35% **Telecommunications**

25% **Restaurant & Food Delivery**

23% **Automotive**

AR is a natural extension of the shopping experience, aiding in decision making



45% help shoppers try out products³

55% of shoppers are likely to use AR when they come across it²

54% discovered it as part of browsing or shopping¹

1: 2021 Global Deloitte Digital Study commissioned by Snap Inc.

Base = Snapchatters (n=117)

Q: How have you found AR while browsing and/or shopping?

2: Base = Snapchatters (n=119)

Q: If you come across AR while browsing and/or shopping, how likely are you to try it? | A: Somewhat/Very Likely 3: Base = Snapchatters (n=96)

Q: How does AR Impact your browsing and/or shopping experience?

Deloitte.

2 in 3 Snapchatters believe that AR will be important in their lives in the next 5 years.¹

Next year, Snapchatters plan on using AR more in 4 key growth areas.









17% want to create their own interactive media plots by guiding characters through a script.6

24% want to customize environments to their own imagination and share with others.6

31% want to project their AR avatar into their favorite games, media & entertainment.6

50% want to readily view information about an item or product as soon as it's scanned with the phone camera.6

1: 2021 Global Deloitte Digital Study commissioned by Snap Inc.

Base = Snapchatters (n=383)

Q: How useful and/or important do you think AR will be in 5 years? I

A: Very useful / important, Somewhat useful / important 2: Base = Snapchatters (n=79)

Q: How would you like to use AR in the next year to enhance

the way you view sports, concerts, movies, and TV?

3: Base = Snapchatters (n=75) Q: How do you feel about AR on social media, communication, and camera apps? | A: I want more ways to interact with friends and family using AR

^{4:} Base = Snapchatters (n=79)

Q: Will you use AR in gaming more or less than last year?

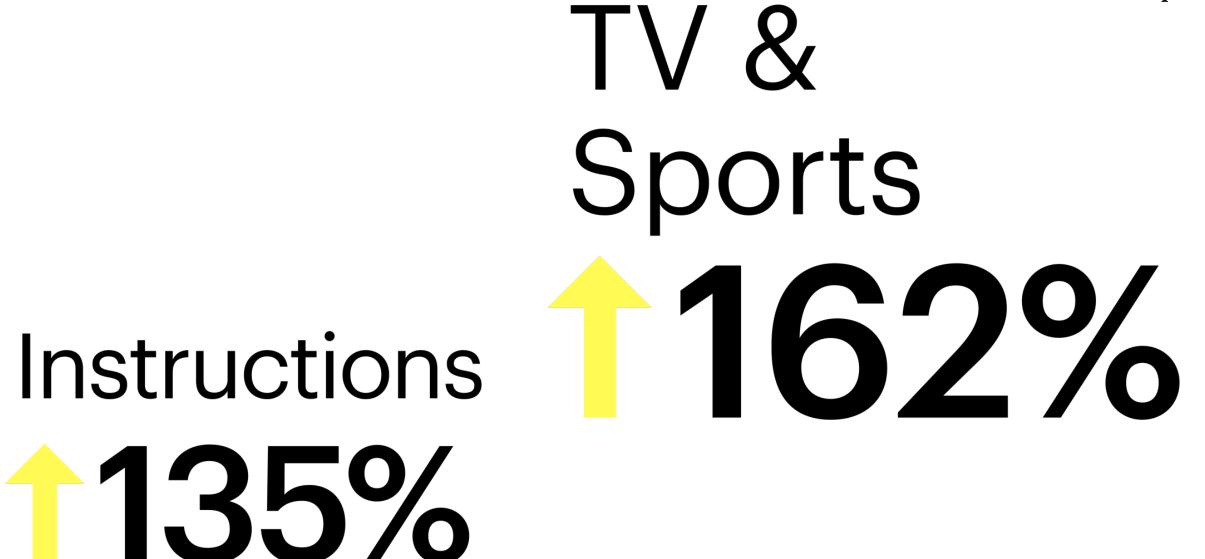
^{5:} Base = Snapchatters (n=83)

Q: Will you use AR while browsing and/or shopping more or less than last year?

^{6:} Base = Readily view information about item or product (n=210), Project through AR avatar (n=159), Customize environments (n=162), Create TV/Movie/Video plot narratives (n=117) Q: Below is a list of ways you could use AR in the future. Please select all the ways that you would be interested in using AR.

27

Utility is a primary driver for future AR usage¹



Learn

Something New

Navigation

67%

110%

Improve Shopping

144%

Communicate 13%

Consumers are becoming creators

Everyday consumers have more access to technology tools that enable them to be creators of digital content.

AR is a creative vehicle

believe AR allows them to be more creative.¹

believe they are AR creators in their everyday lives.²

1: 2021 Global Deloitte Digital Study commissioned by Snap Inc.

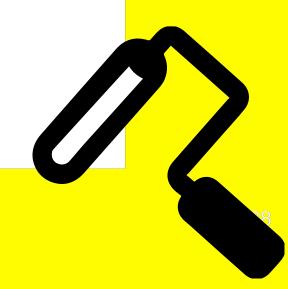
Base = Aggregate (n=507)

A: Agree/strongly agree

Q: Have you ever used tools (e.g. Snapchat Lens Studio, Facebook for Developers/Spark AR, Instagram for Developers, TikTok for Developers) to create your own AR filters/lenses/effects? | A: Yes

Snapchatters are 2.3x as likely to be AR creators.3

Snapchatters



VS.

Non-Snapchatters

have used tools to create AR.



Q: How much do you agree or disagree with each of the statements below? AR allows me to be more creative |

² and 3: Base = Aggregate (n=275), Snapchatters (n=192), Non-Snapchatters (n=83)

Conclusion

Consumers continuously expect more personalized and engaging experiences that enable them to interact with the world. AR is delivering that to consumers, today, but there remains untapped potential for so much more.

Brands know the consumer appetite for AR is already here – consumers are far more likely to pay attention to brands using AR. There is a content imperative for brands to meet consumers AR demand, and now is the time to meet this demand. Brands that meet the demand for AR experiences may be more likely to gain market share in the future.

The convergence of use cases and the networking effects is expediting AR adoption. But to unlock AR's potential, brands, developers, and platforms need to work together to accelerate content development and grow the AR ecosystem.



3 Thank you



Appendix

Consumers are redefining the digital experience by using AR.

Augmented Reality (AR) is the next form of mobile engagement that is exciting consumers, driving an enhanced engagement with brands, elevating consumer experiences and increasing brand revenues.



Augmented Reality refers to experiences in which the real-world environment seen through your phone, computer, app camera, or an AR headset is altered or enhanced with the addition of images, objects, text, or other digitally-added information. Augmented Reality could be applied to both visuals of the front facing (selfie) and outward facing (world) cameras.¹



Report Methodology

Research Overview UK Report, Quantitative Online Survey

- 20-minute online survey among 15,000 international respondents
- Survey in field from February 23, 2021 April 5, 2021

Alignment with Interdisciplinary Experts

• Experts within the AR industry participated in in-depth interviews to provide context for survey findings and contribute guidance on the future of AR in society.

Respondent Qualification

- n=1000 per market
 - Ages 13-50
 - 500 Snapchatters who use Snapchat at least once daily, split evenly amongst age groups 13-17, 18-24, and 25-50
 - To ensure a representative read on Snapchatters, cell weighting based on nested gender and age were applied to each country to correct for demographic imbalances due to set sampling size.
 - 500 Non-Snapchatters, who do not have Snapchat downloaded/have never heard of Snapchat, minimum of N=100 in all three age groups
- Markets: Australia, Canada, France, Germany, India, Japan, Malaysia, Mexico, The Netherlands,
 Norway, Saudi Arabia, Sweden, United Arab Emirates, United States, United Kingdom

Local Market Additions and Exceptions

- US: Ethnicity quota (maximum 65% white respondents, maintained only for Snapchatters; Non-Snapchatters sample should be roughly nationally representative)
- KSA and UAE: Representative expat / citizen quotas (88% expat in UAE; 30% expat in KSA for both Snapchatters and Non-Snapchatters).
- Norway: Sample recruited for n=1000 to be representative of social media and communication appusers in that market, with a skew on ages reflective of other markets (evenly distributed across 13-17, 18-24, and 25-50)
- Japan: Sample recruited for n=1000 to be representative of smartphone users in that market, with a skew on ages reflective of other markets (evenly distributed across 13-17, 18-24, and 25-50)



Frequent AR Users Methodology

2021 Baseline

Frequent AR Users

People who use AR weekly or daily based on responses to 2021 Global Deloitte Digital Study commissioned by Snap Inc.¹ and extrapolated to population



Population Base

2021 Global Population Base: People ages 13-69 = 5.61B worldwide in 2020² 2021 Social and Communications App Population Base: Global Population x Social Media Penetration Rate (48% in 2021)³ = 2.71B

Note: Assumes no increase or decrease in population. Base from 2021 stays same across five years



AR Adoption Rate

AR Adoption Rate of Total Population
AR Adoption Rate of Social and Comms App Population

Note: Adoption Rate capped at 100% in out years

34

2022-2025 Forecast



2021 Baseline



See above

2000 Growth Rate of Smartphone Users

Note: 2021 AR Users is at 1999 smartphone user's adoption level since AR is in the Toy-phase of adoption; if we look at where this transition took place with mobile phones, one can argue that this was when games like 'snake' started being available (e.g., 1997: Nokia 6110 device released, 1999: emojis were invented, 2000: Nokia 3310 launched, and the first commercially available camera phone launched in Japan)



AR Photos / Videos per Day Methodology

Overall: Calculations were done by age groups in the 2021 Global Deloitte Digital Study commissioned by Snap Inc. and netted up into a generational view. The following methodology was used for each age group (Ages: 13-17, Ages 18-24, Ages: 25-34, Ages: 35-44, Ages: 45-50)

2021 and 2022 Baselines

Number of People

Step 1: Determine Global Population for ages 10-69 (5.99B)¹

Note: Survey only included Ages 13-50. Ages 10-12 were assumed to have similar behavior to Ages 13-17. Ages 51-69 were assumed to have similar behavior to Ages 45-50.

Step 2: Determine percent of people within crosstab of survey questions for Frequency of photos/and or videos taken daily AND % of photos/ and or videos that are AR2. 2021 based on responses to behaviors today. 2022 based on responses to behaviors next year.

Step 3: Apply percent of population from Step 2 to population to get number of people within each crosstab



Number of Photos/Videos Taken Daily

Step 1: Identify scenarios for number of photos and or videos taken daily

Note: Since the survey had ranges (few than 5, 5-10, 10 or more), to determine the number of photos, we developed a low, mid, high case.

Low: assumes lowest quantity in each range (1,5,10) Mid: assumes average of low and high case (2.5, 7, 12) High: assumes highest quantity in each range (5, 10, 14) 14 was used as a cap for high case to keep daily photos at a reasonable amount for an average user

Step 2: Select case to apply to analysis

Note: High case was chosen based on input from Snap Inc.



% of Photos/Videos that are AR

Step 1: Identify scenarios for percent of photos and or videos taken that are AR

Note: Since the survey had ranges (less than 20%, 20-40%, 40-60%, 60-80%, Over 80%), to determine number of photos taken daily that were AR, we developed a low, mid, high case. Low: assumes lowest quantity in each range (0%, 20%, 20%, 60%,

Mid: assumes average of low and high case (10%, 30%, 50%, 70%,

High: assumes highest quantity in each range (20%, 40%, 60%, 80%, 100%)

Step 2: Select case to apply to analysis

Note: High case was chosen based on input from Snap Inc.

Step 3: Apply adjustment factor to correct for people who are using AR but may not realize it

Note: Based on 2021 Global Deloitte Digital Study commissioned by Snap Inc., it was discovered that ~13% of respondents who use AR could not successfully identify AR >50% of the time.²

Daily AR Photos and/or Videos

Step 1: Take annual AR photos and or videos and divide by 365 to get daily AR photos and or videos by age group

Step 2: Add all age groups to get total daily AR photos and or videos

35

2023-2025 Forecast

2023-2025

2022 Baseline 2007 Growth Rate of Smartphone Device Sales

Note: Device growth is used as a proxy for photos/videos growth. Growth rate assumes 2007 smartphone device growth. As of 2021, there are ~1.05B AR Compatible Devices: ARCore (Android)³ + ARKit (iOS)4. If this grows at global smartphone growth equivalent, there could be ~4.1B by 2025

Expert Interviews

First Name	Last Name	Country	Company	Date
Glen	Gainor	United States	Amazon Studios	2/13/2021
Raimon	Homs	Spain	Deloitte	2/16/2021
Bryan	Rokoszak	United States	Deloitte Digital	2/16/2021
Alan	Smithson	Canada	MetaVRse	2/16/2021
Ed	Grieg	United Kingdom	Deloitte	2/17/2021
Adrian	Mills	Australia	Deloitte Digital	2/17/2021
Bill	Briggs	United States	Deloitte	2/18/2021
Yagna	Akuluri	India	Deloitte	2/22/2021
Joanna	Popper	United States	HP	2/22/2021
Jason	Williamson	United States	Deloitte	2/22/2021
Donald	Brady	United States	Deloitte Digital	2/23/2021
Shashi	Deethi	India	Deloitte	2/23/2021
Ram	Chandel	United States	Deloitte	2/23/2021
Lokesh	Ohri	United States	Deloitte	2/23/2021
Steven	Bailey	United States	Deloitte	2/23/2021
Jean-Emmanuel	Biondi	United States	Deloitte	2/23/2021
Dea	Lawrence	United States	Variety	2/23/2021
Shrenik	Sadalgi	United States	Wayfair	2/24/2021
Mike	Boland	United States	ARtillery	2/24/2021
Jason	Yim	United States	Trigger Global	2/25/2021
Paul	McDonagh-Smith	United Kingdom	MIT	2/26/2021
Kaitlyn	Kuczer	United States	Deloitte Digital	2/26/2021
Max	Dawes	United Kingdom	Zappar	2/26/2021
Alex	Sanger	United States	Universal Pictures	2/26/2021
Walter	Delph	United States	Magic Leap	3/1/2021
Snehaal	Dhruv	India	SuperFan	3/1/2021



Expert Interviews

First Name	Last Name	Country	Company	Date
Tony	Parisi	United States	Unity	3/3/2021
Anwar	Noriega	Mexico	CEO / Cofounder at Wabisabi Design	3/4/2021
Ines	Alpha	France	3D Makeup Artist	3/5/2021
Alice	Bezirard-Fischer	United Arab Emirates	Wella Company	Write-in
Kirsten	Soumas	United States	Verizon	3/8/2021
Shane	Horneij	United Kingdom	Performance Marketing King	3/9/2021
Qi	Pan	United Kingdom	Snap	3/9/2021
Kimberlee	Archer	United States	Snap	3/9/2021
Carolina	Arguelles	United States	Snap	3/9/2021
Robert	Triefus	Switzerland	Gucci	3/12/2021
Clara	Bacou	United Kingdom	Lens Creator	3/11/2021
Timoni	West	United States	Unity	3/16/2021
Lara	Bean	United Kingdom	adidas	3/16/2021
Peggy	Johnson	United States	Magic Leap	3/19/2021
Jon	Cheney	United States	Seek XR	3/17/2021
James	Clarke	United States	Frito-Lay North America	Write-in
Andrew	McPhee	United States	Snap	3/17/2021
Eitan	Pilipski	United States	Snap	3/17/2021
Allan	Cook	United States	Deloitte Digital	3/18/2021

About Deloitte

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee ("DTTL"), its network of member firms, and their related entities. DTTL and each of its member firms are legally separate and independent entities. DTTL (also referred to as "Deloitte Global") does not provide services to clients. In the United States, Deloitte refers to one or more of the US member firms of DTTL, their related entities that operate using the "Deloitte" name in the United States and their respective affiliates. Certain services may not be available to attest clients under the rules and regulations of public accounting. Please see www.deloitte.com/about to learn more about our global network of member firms.

This publication contains general information only and Deloitte is not, by means of this publication, rendering accounting, business, financial, investment, legal, tax, or other professional advice or services. This publication is not a substitute for such professional advice or services, nor should it be used as a basis for any decision or action that may affect your business. Before making any decision or taking any action that may affect your business, you should consult a qualified professional advisor. Deloitte shall not be responsible for any loss sustained by any person who relies on this publication.

