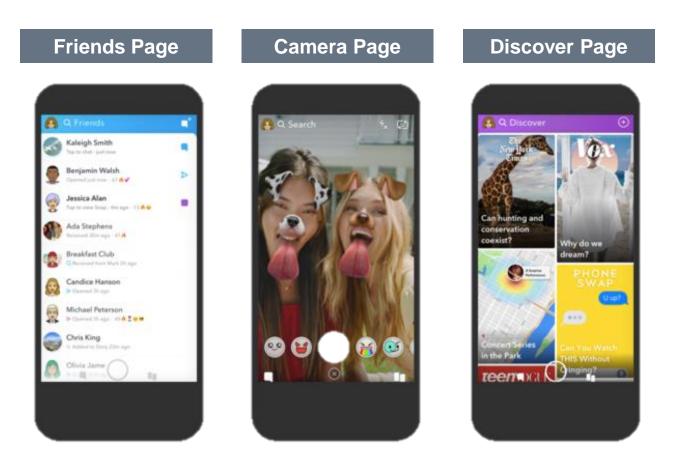




Company Overview

"Our moat is a function of delivering our core value: Snapchat is the fastest way to communicate"

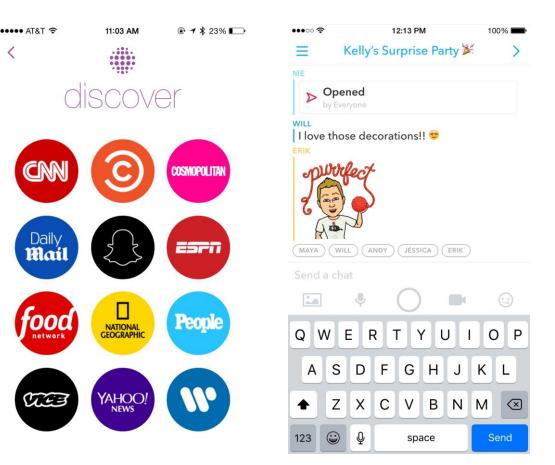
- Snap is a camera company with its main business being a mobile app: Snapchat
- Users can send photos or videos to each other directly to friends or post important moments publicly on a story where it appears for 24 hours.
- Users can add filters or special effects to each photo or video.
- Discover is a portion of the app where users can see the posts of celebrities or professional content such as from Buzzfeed or NBC.
- There are short ads between photos that users can interact with.





Strong Value Proposition

- Snapchat has moved on from the app used to just send selfies.
- It has turned into the app for communication, it lets users message each other directly and quickly.
- A point we will touch on later is that Snapchat focuses more on this person to person messaging rather social media.
- It has a strong grip on the younger generation.
- New and innovate technology to engage users in the app.
- With this strong grip they have many promising ways of monetizing the app.
- One critical way has been the delivery the content.



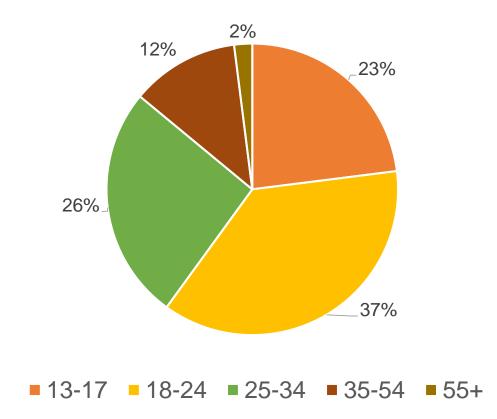


Strong Demographic Profile

Snapchat User Demographics

- The app currently has 191 million users.
- 60% of Snapchat's customer base is between the age of 13-24.
- It is estimated they have almost 90% of that demographic within the United States.
- That demographic is key because it is the most in demand from advertisers.
- Increased monetization in this area will help the company increase its ARPU.
- Most of their customers are in North America, leaving room for international expansion.
- Average user goes onto the app more than 20 times a day and spends more than 30 minutes.
- 60% of users generate content on the platform.

User Age Breakdown





Current Model of Advertising

Snapchat Methods of Advertising

- Snapchat has different types of ads throughout its platform, and these ads tend to be more interactive.
- Through the camera, Snapchat sells filters to companies to promote special events as in example with a movie release or the super bowl.
- These filters can cost up to a million dollars per day.
- When clicking through stories, users encounter short video ads they can interact with.
- For the Discover page, companies pay Snapchat to be on it and split the ad revenue with Snapchat when users click on an advertisement.
- The company has recently introduced analytics for ads which has helped monetization.

Sample Filter Ads



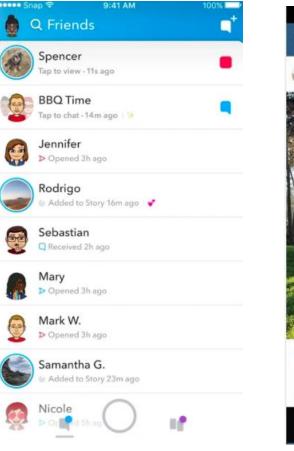


Instagram vs. Snapchat

Snapchat Advantages in Model

- Snapchat is a closed system as users share content with each other privately.
- Differentiated from Instagram as Snapchat is not a traditional social media platform, it's a peer to peer communication platform.
- For Facebook as well as Instagram, the companies have faced trouble in user engagement as people are tired of the polished posts and the infusion of politics.
- Snapchat is a contrast as users give a day to day look into their lives and news content is separated from posts from friends.
- Almost half of Snapchat's users don't use Instagram.
- 63% of 12-24 year olds prefer Snapchat over Instagram.

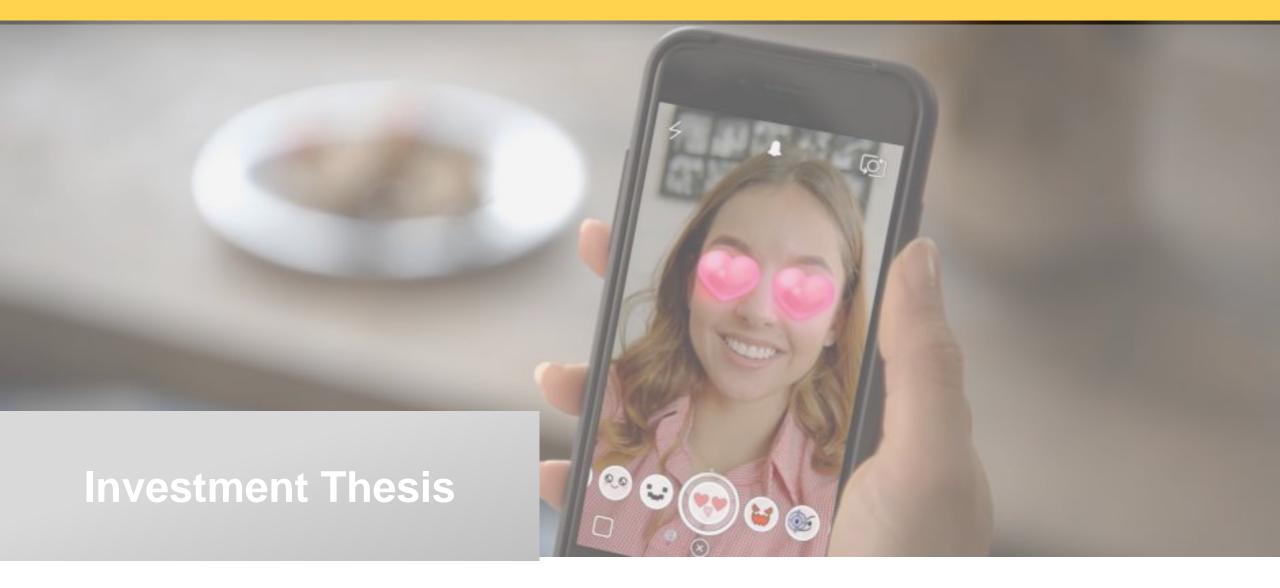
Snapchat Feed vs. Instagram Feed





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Investment Thesis

Upside driven by increase Monetization and call options on technological innovation

- I. Monetization Rates Increase
- II. Alternative Platform Engagement
- III. Core Demographic Loyalty Expansion
- IV.Content Creation and Increased Engagement
- V. Monetization of A/R Platform



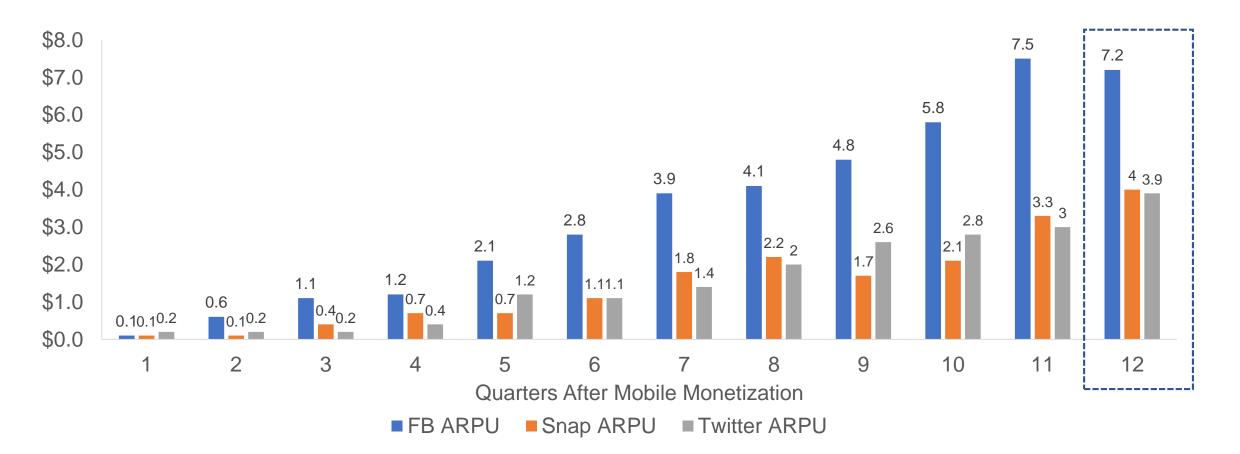
Monetization Rates Increase



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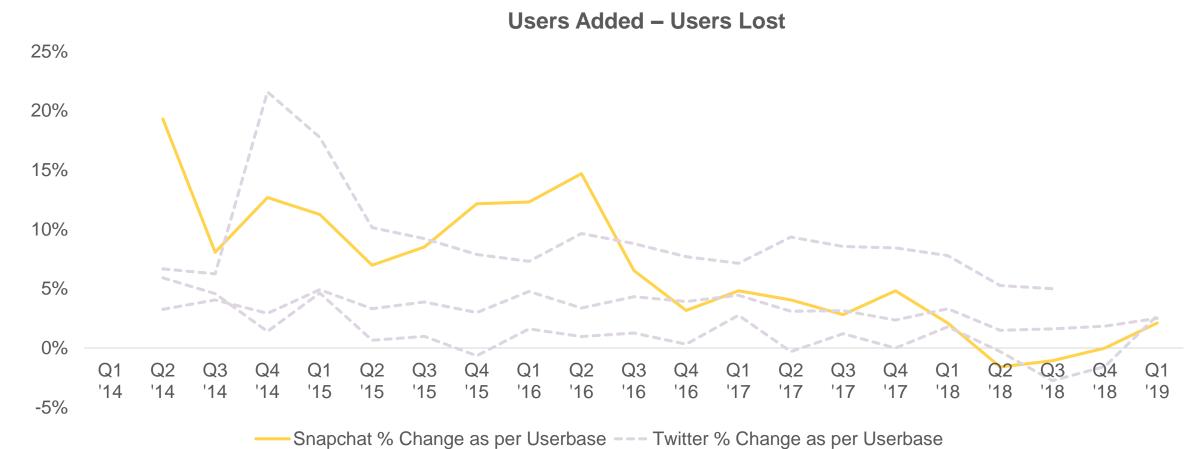


Snapchat is unable to monetize at the rate that Facebook and Twitter at a similar point





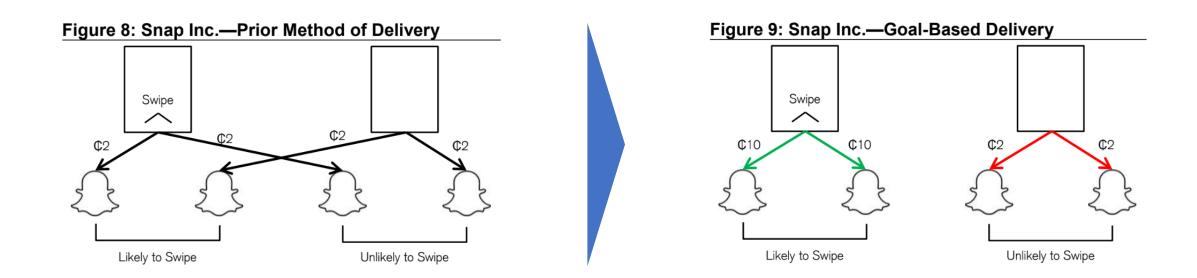
Snapchat targets a demographic that competitors have been unable to capture



--- Facebook % Change as per Userbase --- Instagram % Change as per Userbase



Shift to a goal-based delivery should help Snapchat increase their monetization rates



Shift to a Goal-Based delivery model helps Snapchat monetize higher on a per impression base, with advertisers paying more for better leads



Snap Monetization User Analytics

Monetizing Snap User Analytics

- Snapchat collects user information by saving snaps for up to 30 days, collecting information on the user's friends, and filter choices
- Snapchat offers a wide range of filters when choosing target audience for advertisements, including...

Lifestyle

Viewers

Location/Other

targeted ads based

on Age, Location,

Gender, and

Snapchat offers

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- Snapchat offers over 150+ categories
- *i.e. Motor Sports Fans, Horror Genre Fans, Energy Drink Consumers, etc.*



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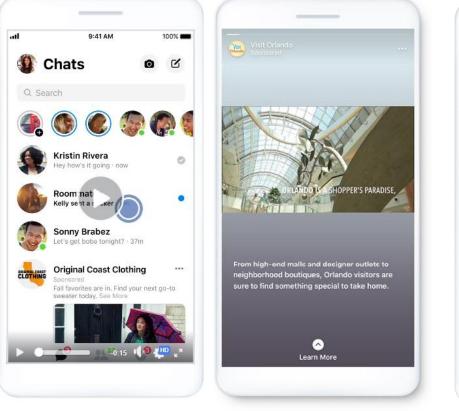
- Over 80+ categories with users who engage with other content
- i.e. TV Viewers (Talk Shows, TV (Home Shopping), ABC Viewers, etc.

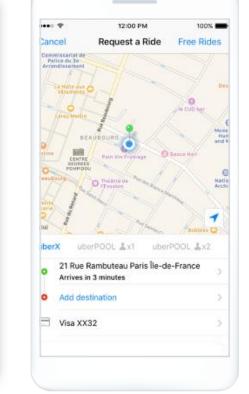




Case Study: Facebook's shift on Messenger

Snapchat should follow Facebook's blueprint with Messenger to properly monetize their userbase





Messenger Ads

- Destination ads (offer customers an opportunity to message your brand rather than clicking through landing page)
- Sponsored messages (passive ads)
- Home section ads (presented as soon as you open app)
- 1.2 billion monthly users, 0.9% click through rates, \$2.7 a click charged
 Handling Fees from Other Apps
- 3.1% of transaction on average



Alternative Platform Offering



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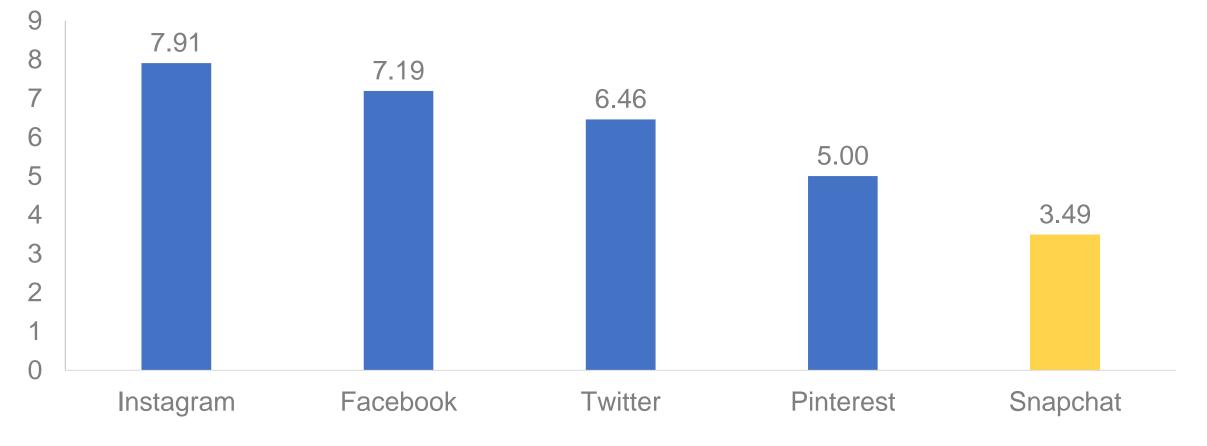
Emergence as a secondary platform to advertisers

"Advertising spend is <u>not a winner-take-all scenario</u> in which SNAP must offer an ROI that is better than Facebook or Google to gain meaningful budget allocations"



Snapchat is needed, providing advertisers with some sort of bargaining power.....

CPM (Cost per thousand)





Advertisers need alternative platforms to continue advertising on as they face headwinds with others

BUSINESS

Facebook and Google Face Emboldened Antagonists: Big Advertisers

Latest uproar over voter profiling data follows company demands for more control, more transparency from tech giants



Advertisers need alternative platforms to continue advertising on as they face headwinds with others

"HP Inc., which pulled ads from YouTube over inappropriate videos in November, is waiting to return until all the safety improvements are in place, said HP's chief marketing officer, Antonio Lucio"

"We realized we can't count on them. We have to take this into our own hands," said P&G Chief Brand Officer Marc Pritchard

"Subway plans to cut back on Facebook spending this year because of concerns about whether its ads are being viewed sufficiently, according to a person familiar with the matter"



Advertisers need alternative platforms to continue advertising on as they face headwinds with others



We've decided to become a Facebook-Free Business at @basecamp starting today. No Facebook, Instagram, no WhatsApp. No ads. No profiles. No pages. No usage. No more. Run your own business? Consider joining up. m.signalvnoise.com/become-a-faceb... ♡ 3,627 6:09 PM - Dec 19, 2018

Mozilla Presses Pause on Facebook Advertising

March 21, 2018

Mozilla is pressing pause on our Facebook

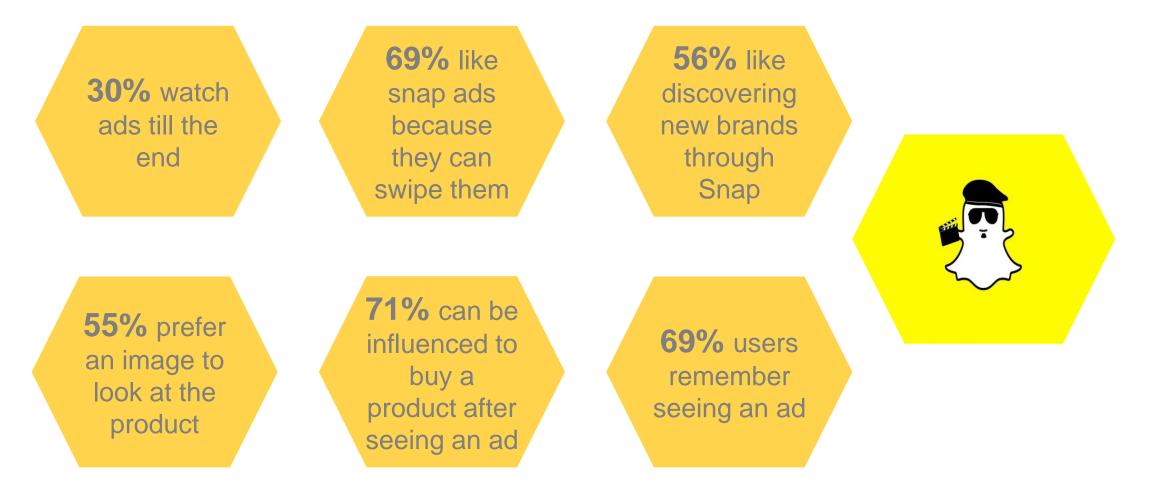
advertising. Facebook knows a great deal about their two billion users — perhaps more intimate information than any other company does. They know







Snapchat users actually enjoy the ads?





Great Core Demographic

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Emergence as a secondary platform to advertisers

"Can brands afford to NOT advertise and raise affinity with this demographic?"



Advertisers need to build loyalty with the 18-34 year demographic now given its importance

Millennials are more likely than other generations to remain loyal to a - brand because of its loyalty rewards (22%) and its company reputation or philosophy (15%)

Millennials are more likely than any other generation to say their loyalty to a brand has influenced their most recent purchase (70%)

(81%) of millennials are likely to be influenced by advertising compared to 57% of baby boomers



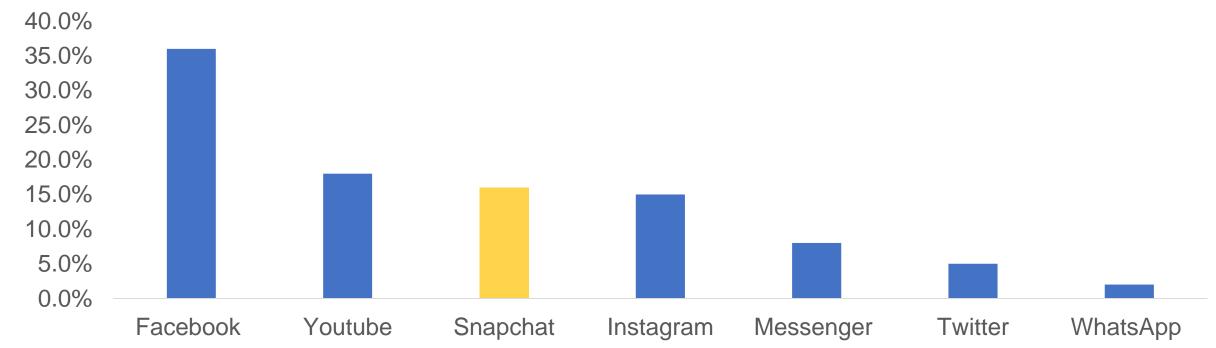
Case Study: Gilmore Girls

"According to an analysis by the former NBC News president Lawrence K. Grossman, advertisers pay an average of \$23.54 to reach 1,000 viewers in that age bracket, versus \$9.57 per 1,000 over the age of 35..... it is, as it has been for 40 years, the principle by which a great deal of our popular culture -- not just TV, but music, movies, radio -- comes into existence" --New York Times 2002

So who's willing to pay the WB extra to reach today's young adults? The ads featured on "Gilmore Girls" themselves paint a portrait of the coveted youth audience. With one glaring exception: new cars. Ford and Honda advertised throughout the Tuesday-night lineup. "These younger folks may not be bigticket purchasers now," says a Ford spokesperson, "but they may one day be.



Snapchat targets a demographic that competitors have been unable to capture

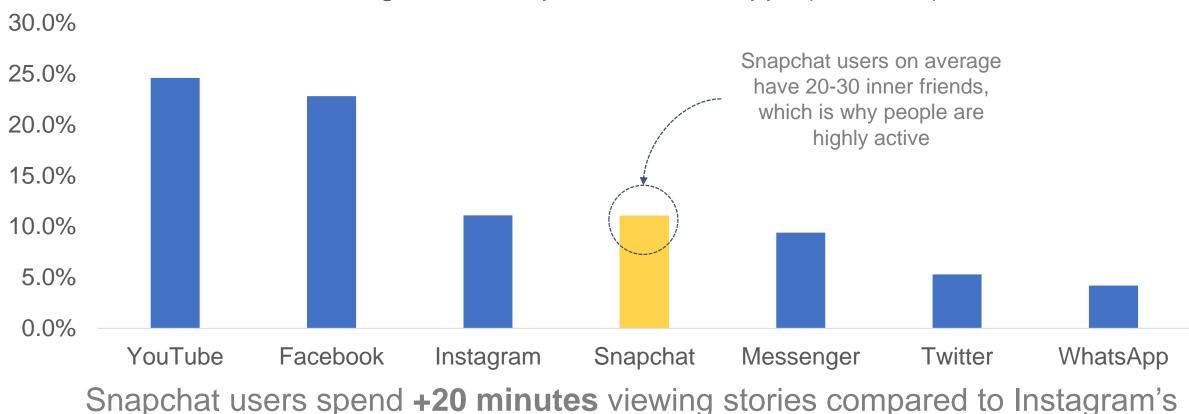


Favorite Social Media App (Under 30)

90% of Snapchat users are between 13-24 and 75% are under 34 years old



Snapchat targets a demographic that competitors have been unable to capture



Percentage of Time Spent on Social Apps (Under 30)



Shift to Content Creation & Engagement

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Content creation has shown positive signs on platform

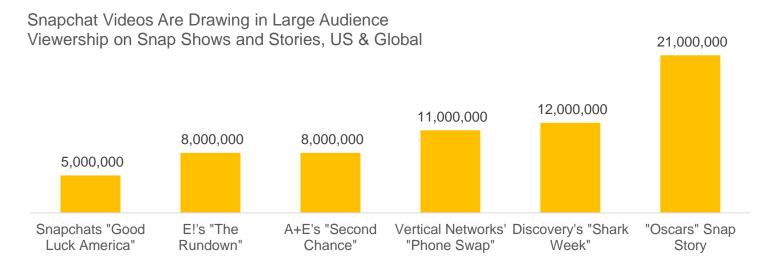


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Snapchat Discover

- Under the discover section, users can find, and watch video content created by its community, 3rd party producers, or by Snapchat and its partners
- Over 10 billion video views a month across all content on Snapchat Discover
- Snapchat has targeted ads between channels, at \$40,000-\$100,000 per day
- These ads are targeted to users based on collected user information

Snapchat Videos



Content creation has shown positive signs on platform

Snap Originals

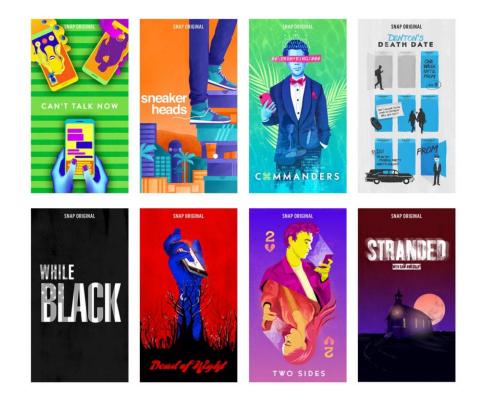
- Snap Originals are created by the Snapchat and its partner companies, and are similar to Netflix Originals in purpose
- The goal of these originals to differentiate itself from Instagram, as well as retain users
- These snap originals have been created alongside...



- Show Stay Tuned has doubled its viewership in under year to 5 Million unique viewers per day
- This is compared to NBC's nightly cable news pulling ~8 Million a season



- Show SportsCenter is run by ESPN, and has over 17 million unique monthly viewers
- ESPN traditionally has
 ~86 Million viewers on its cable network



10 Million Unique Viewers Monthly 12+ New Snap Originals for 2019-2022



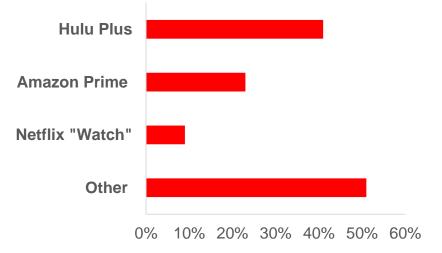
Case Study Netflix Originals Customer Stickiness

Netflix Originals

- Netflix has the lowest user churn in the industry, despite being in a very competitive commoditized industry
- This is widely recognized to be a result of the company's efforts to create a portfolio of high-demand original content
- The development costs for these shows are high, however retaining users has been a key point of success for Netflix









A/R Technology Integration



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A/R technology shows promise and is industry leading

How It Works

- Augmented Reality is a separate technology to Virtual Reality
- A/R is a technology which superimposes a computer-generated image on a user's real view
- Snap A/R Technology uses a Viola-Jones object detection framework to create a 3D mask
- This technology is useful for more than face filters, allowing for the placement of 3D objects
- The future potential for A/R technology is large, with many voicing support and interest

"Augmented Reality is big and profound" ~Tim Cook

How Snap Uses This

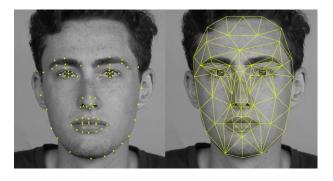
- Snapchat uses its Augmented Reality technology to drive user engagement and develop different marketing products
- Examples include Snap Games, Unique Landmark Lenses, 3D Object Filters, and Amazon Object Searches



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Creation of Augmented Reality

- The cost to develop these features is ~11% of COGS
- These costs are minimized by utilizing their 186 million users to generate Augmented Reality lenses



A/R technology shows promise and is industry leading

Visual and Audio Recognition

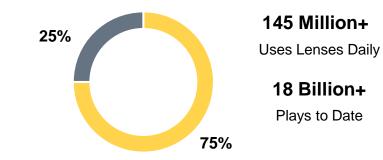
- Snapchat's Augmented Reality technology works with Amazon to allow users to recognize and purchase items in app
- Snapchat's A/R feature "Scan" uses the same 3D mask that was originally used for faces to identify objects in the real world
- Snapchat A/R technology also allows for music recognition, and has unique features such as solving written math equations
- Bridging e-commerce and A/R; clients include Drake, Ariana Grande, Levi, New Balance, Nicki Manaj, and Blizzard





Enhance User Engagement

- Snapchat's Augmented Reality lenses are popular and drive user engagement
- Snap's CEO Spiegel says that "deepening user engagement, not growth, is Snapchats success metric going forward"
- 75% of Snap's over 190 million daily users play with the lenses, combining to over 18 billion plays to date
- Filters such as Snap Games encourages more streaks between users, thus encouraging more DAU





A/R technology shows promise and is industry leading

National Lens Carousel

- Snapchat allows advertisers to create unique lenses, which are included in the App's National Lens Carousel
- These ads range between \$500k and \$1mm per day, targeting larger more established companies
- Gatorade purchased a A/R lens for Superbowl Weekend in 2018, being viewed over 169 million times
- Gatorade reported this sparked an 8% increase in purchase intent, translating to a \$10mm+ increase in sales



In Ad Targeted A/R

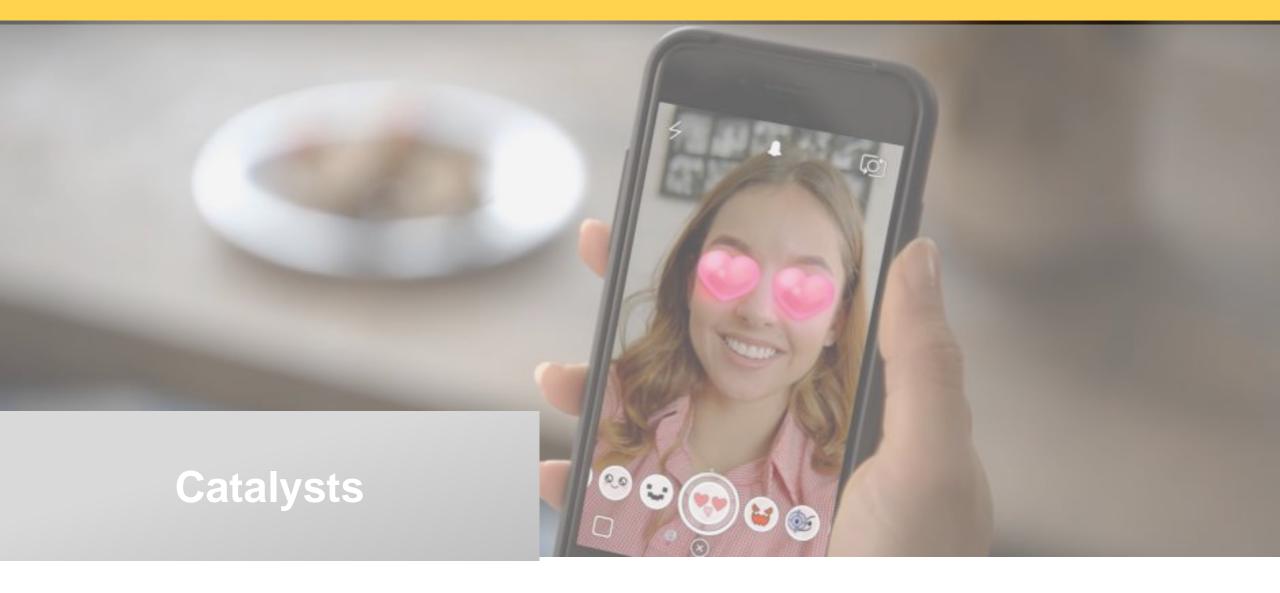
- Included within Snapchat's advertisers' "packages" is the option to include an in-Ad targeted A/R
- These targeted lenses add an additional \$40,000 per day on top of the existing tiered advertising cost
- BMW advertised the release of its new 2019 BMW X2 on Snapchat using an in-app 3D lens, allowing users to look at the car more closely
- The Ad was played with on average for 54 seconds, ¹/₄ shared and saved the experience, 40 million impressions

54 sec Average watch Time

45 Million Snapchat Users Shared the Lens **40,000,000** Impressions









Catalyst: Google Acquisition

Snapchat has potential M&A activity

- Google ALREADY offered to buy Snapchat for \$30 Billion in 2016
- Google cannot imitate Snapchat's unique user-base and ecosystem. Such infrastructure provides a higher barrier to entry
- Google' cloud infrastructure and bandwidth <u>can enable low operating costs</u> for Snapchat
- Google has over 2 Billion Android users allowing it to package Snapchat with its phones
- If only 10% of Google's Android base became Daily Users, Snap's DAU would <u>nearly double</u>

Google



~150 Million 2016 DAU's at Time of Offer

\$30 Billion 2016 Acquisition Offer

Google Acquisition History

Google has a history of offering acquisitions of smaller companies with strong growth potential Google historically does not offer acquisitions without serious interest in entering the industry Example: Google offered to buy 'Yelp!', but when 'Yelp!' declined the offer Google created their own platform 'Google Reviews'



\$500 Million

2009 Acquisition Offer



Catalyst: Amazon Acquisition

Snapchat has potential M&A activity

- Augmented Reality has powerful opportunities for user engagement when looking at ecommerce
- Users being able to digitally inspect the items using 3D A/R masks has been shown to be popular and effective at motivating sales
- Snapchat and Amazon are currently partnered, with users scanning items using A/R technology to purchase the items on Amazon within in the Snapchat app
- Amazon, like Google, could offer superior infrastructure costs to Snapchat, allowing to profitably expand its DAU's internationally
- Amazon could effectively monetize a growing millennial customer base at Snapchat which have high brand loyalty and active purchasing behaviors









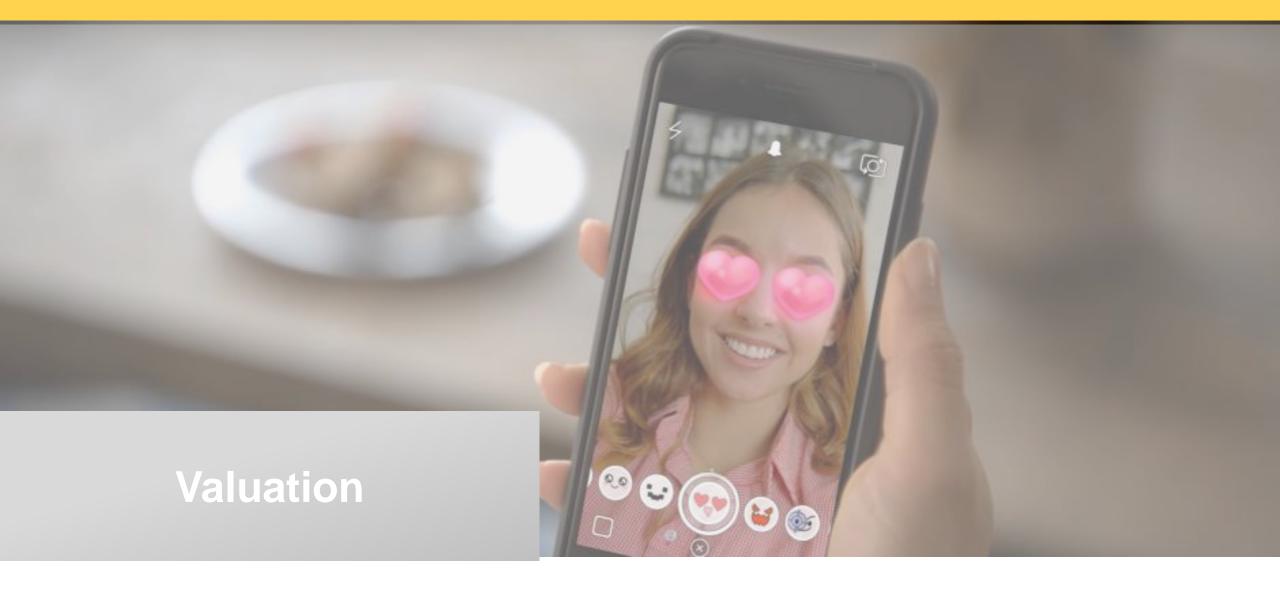


Amazon Acquisition History

Amazon historically looks to enter into industry's where they can disrupt competition; *i.e. Whole Foods, Audible, Goodreads, etc.*

Amazon has experience with running content creation platforms, as they acquired *Twitch Interactive* in 2014 for ~\$1 Billion







Valuation: Revenue Projection

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Fiscal year Fiscal year end date	2016A 12/31/16	2017 Q1	2017 Q2	2017 Q3	2017 Q4	2017A 12/31/17	2018 Q1	2018 Q2	2018 Q3	2018 Q4	2018A 12/31/18	2019P 12/31/19	2020P 12/31/20	2021P 12/31/21	2022P 12/31/22	2023P 12/31/23	CAGR 2016-2018	CAGR 2019-2023	Target ARP
U.S Daily Active User	68.00	71.00	75.00	77.00	80.00	80.00	81.00	80.00	79.00	79.00	79.00	80.58	81.39	82.20	83.02	83.85	5.13%	0.80%	
Growth		0.00%	22.95%	18.46%	17.65%	17.65%	14.08%	6.67%	2.60%	-1.25%	-1.25%	2.00%	_1. <u>00%</u>	<u>1.00%</u>	1.00%	1 <u>.00%</u>	-		Facebook
U.S AAPRU	2.15	1.81	1.97	2.17	2.75		2.10	2.21	2.62	3.38		12.57	14.46	16.19	17.81	19.23		8.88%	\$35
Growth							16.02%	12.18%	20.74%	22.91%			15.00%	12.00%	10.00%	8.00%			
U.S Total Revenue		128.51	147.75	167.09	220.00	663.35		176.80	206.98	267.02	820.90	1,012.89	1,176.47	1,330.83	1,478.55	1,612.80		9.75%	Twitter
Growth							32.36%	19.66%	23.87%	21.37%	23.75%	23.39%	16.15%	13.12%	11.10%	9.08%			\$20
Europe Daily Active User	52.00	55.00	57.00	57.00	60.00	60.00	62.00	61.00	59.00	60.00	60.00	60.90	61.81	62.43	63.06	63.69	4.89%	0.90%	
Growth		41.03%	23.91%	16.33%	15.38%	15.38%	12.73%	7.02%	3.51%	0.00%	0.00%	1.50%	1.50%	1.00%	1.00%	1.00%			
Europe AAPRU	0.28	0.24	0.39	0.48	0.66		0.53	0.66	0.85	1.04		4.22	5.70	7.58	9.47	11.37		21.91%	
Growth					_								35.00%	33.00%	25.00%	20.00%			
EU Total Revenue		13.20	22.23	27.36	39.60	102.39	32.86	40.26	50.15	62.40	185.67	257.00	352.15	473.05	597.22	723.83		23.01%	
Growth							148.94%	81.11%	83.30%	57.58%	81.34%	38.42%	37.03%	34.33%	26.25%	21.20%			
ROW Daily Active User	39.00	40.00	42.00	44.00	47.00	47.00	48.00	47.00	47.00	47.00	47.00	47.94	48.90	49.88	50.87	51.89	6.42%	1.60%	
Growth		37.93%	16.67%	12.82%	20.51%	20.51%	20.00%	11.90%	6.82%	0.00%	0.00%	2.00%	<u>2.00%</u>	<u>2.00%</u>	2.00%	<u>2.00%</u>			
ROW AAPRU	0.15	0.19	0.29	0.30	0.56		0.58	0.96	0.84	1.24		5.86	8.20	11.08	13.84	16.61		23.17%	
Growth										121.43%			40.00%	35.00%	25.00%	20.00%			
ROW Total Revenue		7.60	12.18	13.20	26.32	59.30	27.84	45.12	39.48	58.28	170.72	280.93	401.17	552.41	704.32	862.08		25.14%	
Growth							266.32%	270.44%	199.09%	121.43%	187.89%	64.56%	42.80%	37.70%	27.50%	22.40%			
Total Daily Active User	159.00	166.00	174.00	178.00	187.00	187.00	191.00	188.00	185.00	186.00	186.00	189.42	192.10	194.51	196.95	199.43	5.37%	1.04%	
Growth		36.07%	21.68%	16.34%	17.61%	17.61%	15.06%	8.05%	3.93%	-0.53%	-0.53%	1.84%	1.41%	1.25%	1.26%	1.26%			
Total AAPRU	1.05	0.90	1.05	1.17	1.53		1.21	1.40	1.60	2.09		8.19	10.05	12.11	14.12	16.04		14.40%	
Growth							34.44%	33.33%	36.75%	36.60%			22.70%	20.59%	16.52%	13.63%			
Total AD Revenue		149.31	182.16	207.65	285.92	825.04	230.80	262.18	296.61	387.70	1,177.29	1,550.82	1,929.79	2,356.28	2,780.08	3,198.71		15.58%	
Growth							54.58%	43.93%	42.84%	35.60%	42.69%	31.73%	24.44%	22.10%	17.99%	15.06%			
Spectacles Revenue							1.50	1.30	1.50	1.60	5.90	4.00	3.60	3.40	3.40	3.40		-3.20%	
Total Revenue		149.31	182.16	207.65	285.92	825.04	232.30	263.48	298.11	389.30	1.183.19	1.554.82	1.933.39	2.359.68	2.783.48	3.202.11		15.55%	

Valuation: Income Statement & Cost of Capital

INCOME STATEMENT										
Fiscal year	2016A	2017A	2018A	2019P	2020P	2021P	2022P	2023P		
Fiscal year end date	12/31/16	12/31/17	12/31/18	12/31/19	12/31/20	12/31/21	12/31/22	12/31/23		
Revenue	404.5	824.9	1,180.4	1,554.8	1,933.4	2,359.7	2,783.5	3,202.1		
Cost of sales (enter as -)	(451.7)	(677.6)	(798.9)	(979.5)	(1,102.0)	(1,203.4)	(1,252.6)	(1,248.8)		
Gross Profit	(47.2)	147.3	381.5	575.3	831.4	1,156.2	1,530.9	1,953.3		
Selling, general & administrative (enter as -)	(289.5)	(2,058.2)	(846.7)	(746.3)	(812.0)	(896.7)	(946.4)	(896.6)		
Research & development (enter as -)	(183.7)	(1,534.9)	(772.2)	(590.8)	(638.0)	(684.3)	(723.7)	(736.5)	Cost of capital assumptions	
Loss from operation (EBIT)	(520.4)	(3,445.8)	(1,237.4)	(761.9)	(618.7)	(424.7)	(139.2)	320.2	Cost of debt	
Interest income	4.7	21.1	27.2	25.0	25.6	30.6	41.1	58.9		
Interest expense (enter as -)	(1.4)	(3.5)	(3.9)	-	-	-	-	-	Tax rate	
Other expense (enter as -)	(4.6)	(35.4)	(39.3)	(45.4)	(73.7)	(73.7)	(93.7)	(105.2)	After tax cost of debt	
Pretax profit	(521.7)	(3,463.6)	(1,253.4)	(782.2)	(666.7)	(467.9)	(191.7)	273.9		
Taxes	7.1	18.3	(2.5)	7.8	6.7	4.7	1.9	(2.7)		
Net income	(514.6)	(3,445.3)	(1,255.9)	(774.4)	(660.1)	(463.2)	(189.8)	271.2	Risk free rate	
									Beta	
Basic shares outstanding	807.9	1,166.1	1,300.6	1,498.0	1,528.0	1,558.2	1,590.6	1,623.5		
Impact of dilutive securities	-	-	-	-	-	-	-	-	Market risk premium	
Diluted shares outstanding	807.9	1,166.1	1,300.6	1,498.0	1,528.0	1,558.2	1,590.6	1,623.5	Cost of equity	
Basic EPS	(\$0.64)	(\$2.95)	(\$0.97)	(\$0.52)	(\$0.43)	(\$0.30)	(\$0.12)	\$0.17		
Diluted EPS	(\$0.64)	(\$2.95)	(\$0.97)	(\$0.52)	(\$0.43)	(\$0.30)	(\$0.12)	\$0.17	Capital weights	
Growth rates & margins										Amount
Revenue growth		103.9%	43.1%	31.7%	24.3%	22.0%	18.0%	15.0%	Market value of equity	16,181
Gross profit as % of sales	(11.7%)	17.9%	32.3%	37.0%	43.0%	49.0%	55.0%	61.0%	1 2	,
R&D margin	71.6%	249.5%	71.7%	48.0%	42.0%	38.0%	34.0%	28.0%	Net debt	(1,262)
SG&A margin	45.4%	186.1%	65.4%	38.0%	33.0%	29.0%	26.0%	23.0%		
Other expense margin	(1.1%)	(4.3%)	(3.3%)	(2.9%)	(3.8%)	(3.1%)	(3.4%)	(3.3%)		
Tax rate	1.4%	0.5%	(0.2%)	1.0%	1.0%	1.0%	1.0%	1.0%	Cost of capital (WACC)	
EBITDA reconciliation										
Depreciation & amortization	29.12	61.29	91.65	96.05	95.62	92.87	95.33	100.28		
Stock based compensation	31.84	2,639.90	538.21	787.67	867.71	946.70	993.70	979.85		
Tax Related to Stock Based Comp	0.19	24.47	21.93	-	-	-	-	-		
One Time Adjustment	-	-	9.88	-	-	-	-	-		
EBITDA	(459.26)	(720.15)	(575.73)	121.86	344.64	614.83	949.86	1,400.34		

4.0% 21.0% 3.2%

> 2.5% 1.17 5.0% 8.3%

% of total 108% (8%)

8.8%

Valuation: FCF & Share Price

Free cash flow buildup

Fiscal year	2016A	2017A	2018A	2019P	2020P	2021P	2022P	2023P	Perpetuity approach		
Fiscal year end date	12/31/16	12/31/17	12/31/18	12/31/19	12/31/20	12/31/21	12/31/22	12/31/23	Unlevered FCF in last forecast period (1)	1,145
									FCF ^{t+1}		1,196
EBITDA	(459)	(720)	(576)	122	345	615	950	1,400	Long term growth rate (g)		4.5%
EBIT	(520)	(3,446)	(1,237)	(762)	(619)	(425)	(139)	320	Terminal value		28,040
tax rate	1.4%	0.5%	(0.2%)	1.0%	1.0%	1.0%	1.0%	1.0%	Present value of terminal value		18,980
EBIAT (NOPAT)	(513)	(3,428)	(1,240)	(754)	(612)	(420)	(138)	317	Present value of stage 1 cash flows		1,757
	. ,			. ,	. ,		. ,		Enterprise value Implied TV exit EBITDA multiple		20,737 20.0x
Depreciation and amortization				96	96	93	95	100			20.04
Stock based compensation				788	868	947	994	980			
Accounts receivable				(111)	(114)	(128)	(127)	(126)	Exit EBITDA multiple approach		
Inventory				(9)	(6)	(5)	(3)	Û	Terminal year EBITDA		1,400
Accounts payable				8	5	4	2	(0)	Terminal value EBITDA multiple		21.0x
Accrued expenses & def revenues				83	84	95	94	93	Terminal value		29,407
Other current assets (inc. non-trade receivables)				0	0	0	0	0	Present value of terminal value Present value of stage 1 cash flows		19,905 1,757
Deferred tax assets (DTAs)				0	0	0	0	0	Enterprise value		21,663
Other assets				0	0	0	0	0	Implied TV perpetual growth rate		4.7%
Other non current liabilities				7	8	9	9	10			
Unlevered CFO				108	328	593	927	1,375			
Less: Capital expenditures				(140)	(155)	(165)	(195)	(224)	Fair value per share		
Less: Purchases of intangible assets				(6)	(6)	(6)	(6)	(6)	-	Perpetuity E	
Unlevered FCF				(38)	167	422	726	1,145	Enterprise value Less: Net debt	20,737 (1,262)	21,663 (1,262)
% growth				(00)				.,	Less: Trapped cash	(1,202)	(1,202)
									Equity value	19,475	20,400
Discount factor				64%	164%	264%	364%	464%	Diluted shares	<u>1.544.000</u>	1.544.000
Present value of Unlevered FCF				(36)	146	338	535	-070 775	Equity value per share Market premium / (discount) to fair value	\$12.61 (16.9%)	\$13.21 (20.7%)
				(00)	140	000		115		(101070)	(_0.170)



Valuation: Revenue Multiple

Fiscal year	2018A	2019P	2020P	2021P	2022P	2023P
Fiscal year end date	12/31/18	12/31/19	12/31/20	12/31/21	12/31/22	12/31/23
Revenue	1,180.40	1,554.82	1,933.39	2,359.68	2,783.48	3,202.11
Current EV/Revenue Multiple	0.00x	0.00x	0.00x	0.00x	0.00x	0.00x
Target Multiple	8.28x	8.28x	8.28x	8.28x	8.28x	8.28x
Enterprise Value	9,767.81	12,866.11	15,998.80	19,526.32	23,033.33	26,497.48
Cash	1,279.10	1,221.05	1,340.72	1,720.19	2,394.39	3,493.11
Debt	-	-	-	-	-	-
Equity Value	11,046.91	14,087.16	17,339.52	21,246.51	25,427.72	29,990.59
Share Count	1,482.50	1,515.03	1,543.95	1,575.51	1,608.63	1,641.29
mplied Stock Values	7.45	9.30	11.23	13.49	15.81	18.27
					Price Target	13.51
EV Per User	52.52	67.92	83.28	100.39	116.95	132.87
Facebook EV/Sale Multiple	8.20	8.20	8.20	8.20	8.20	8.20
Twitter EV/Sale Multiple	8.50	8.50	8.50	8.50	8.50	8.50
Match Group EV/Sale	11.40	11.40	11.40	11.40	11.40	11.40
Google Multiple	5.00	5.00	5.00	5.00	5.00	5.00
Average	8.28	8.28	8.28	8.28	8.28	8.28



Valuation: EV/Users Approach

Revenue Multiple						
Fiscal year	2018A	2019P	2020P	2021P	2022P	2023P
Fiscal year end date	12/31/18	12/31/19	12/31/20	12/31/21	12/31/22	12/31/23
Facebook EV/User	210	200	190	180	180	180
User	186.00	189.42	192.10	194.51	196.95	199.43
Implied EV	39,060.00	37,884.00	36,498.64	35,011.45	35,451.35	35,897.43
Cash	1,279.10	1,221.05	1,340.72	1,720.19	2,394.39	3,493.11
Debt	-	-	-	-	-	-
Equity Value	40,339.10	39,105.05	37,839.36	36,731.64	37,845.74	39,390.54
Share Count	1,482.50	1,515.03	1,543.95	1,575.51	1,608.63	1,641.29
Implied Stock Values	27.21	25.81	24.51	23.31	23.53	24.00
					Price Target	23.78

