THINK AGAIN:

TECH AND MEDIA OUTLOOK 2016

WSJD Live Conference

October 20, 2015

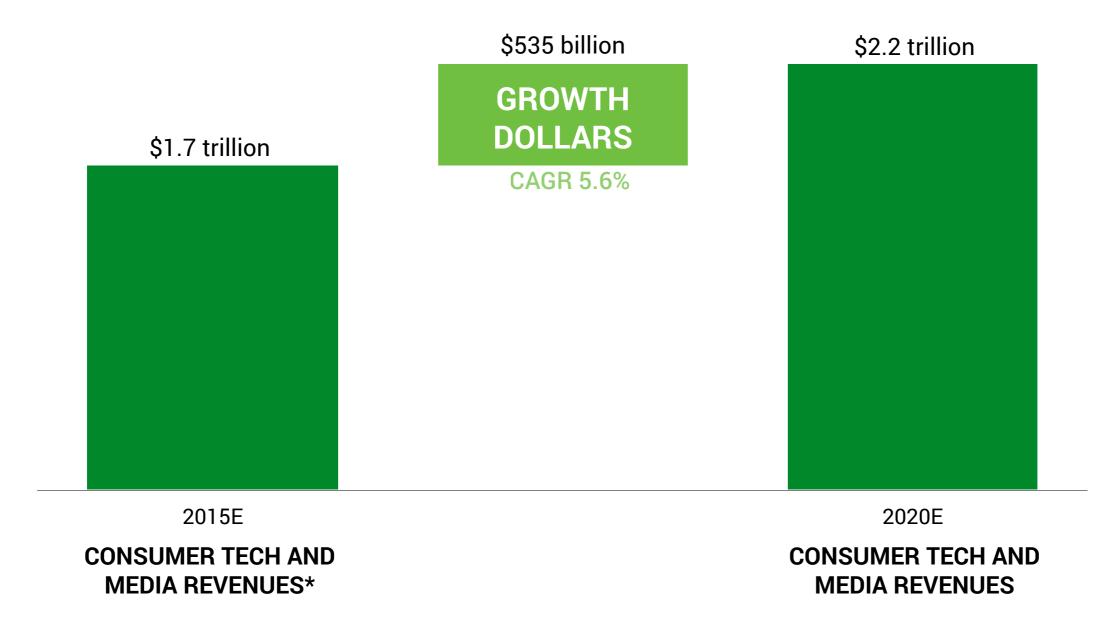
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Over the next five years, the consumer tech and media industry will grow by over \$500 Billion

Consumer Tech and Media Business Growth, 2015E-2020E





The 9 most important insights for tech and media in 2016

THE AVERAGE AMERICAN SPENDS MORE TIME ON TECH & MEDIA THAN WORK OR SLEEP MESSAGING WILL BLOW PAST SOCIAL NETWORKS AS THE DOMINANT MEDIA ACTIVITY THE NEXT BIG WINNERS IN STREAMING AUDIO ARE ALREADY (QUIETLY) HERE THE LONG-AWAITED CORD CUTTING MOMENT IS STILL FAR OFF THERE IS A "CABLE KILLER" COMING, BUT IT WON'T LOOK LIKE YOU EXPECT E-SPORTS & WAGERING WILL CHANGE THE GAME IN GAMING **GOOD LUCK GETTING RICH IN THE APP STORE!** THESE COMPANIES ARE GRABBING ALL THE MONEY IN CONSUMER TECH & MEDIA

ONE SIMPLE WAY TO PREDICT WHAT TECH & MEDIA PLAYERS WILL DO NEXT TO COMPETE



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3

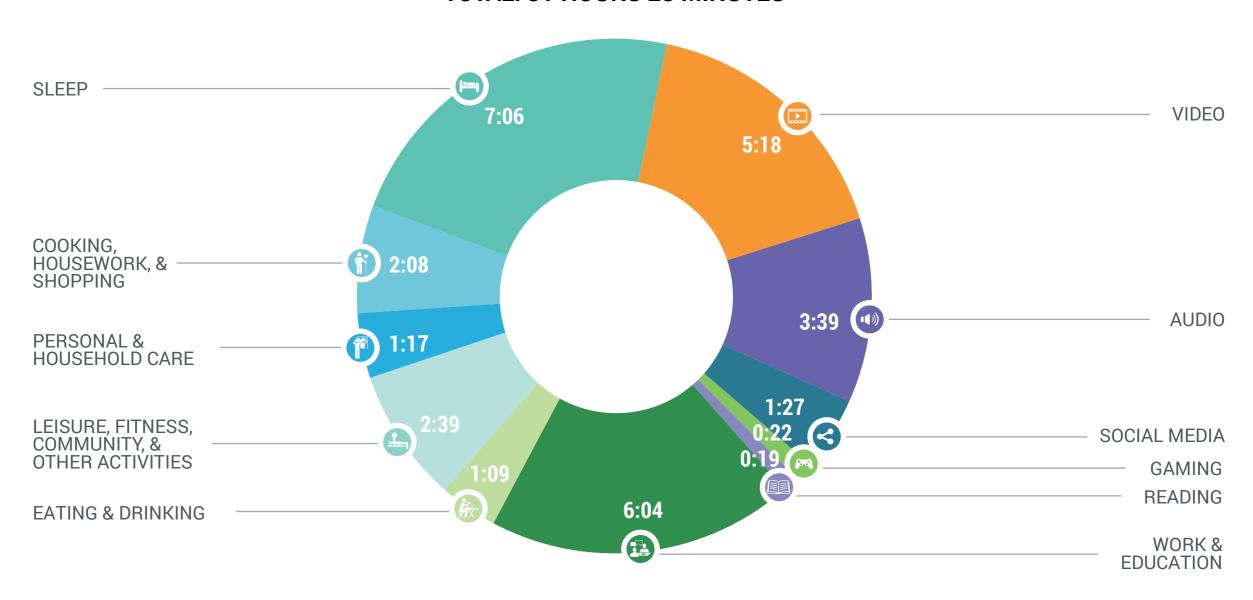
CAPTURING ATTENTION IS NOT A ZERO SUM GAME

WE ANALYZED EVERY MINUTE IN AN AVERAGE AMERICAN ADULT'S DAY

Attention is multi-tasked: the average American has over 31 hours of activity in a day

Average Employed Adult Daily Behavior, U.S., 2014, Hours: Minutes

TOTAL: 31 HOURS 28 MINUTES

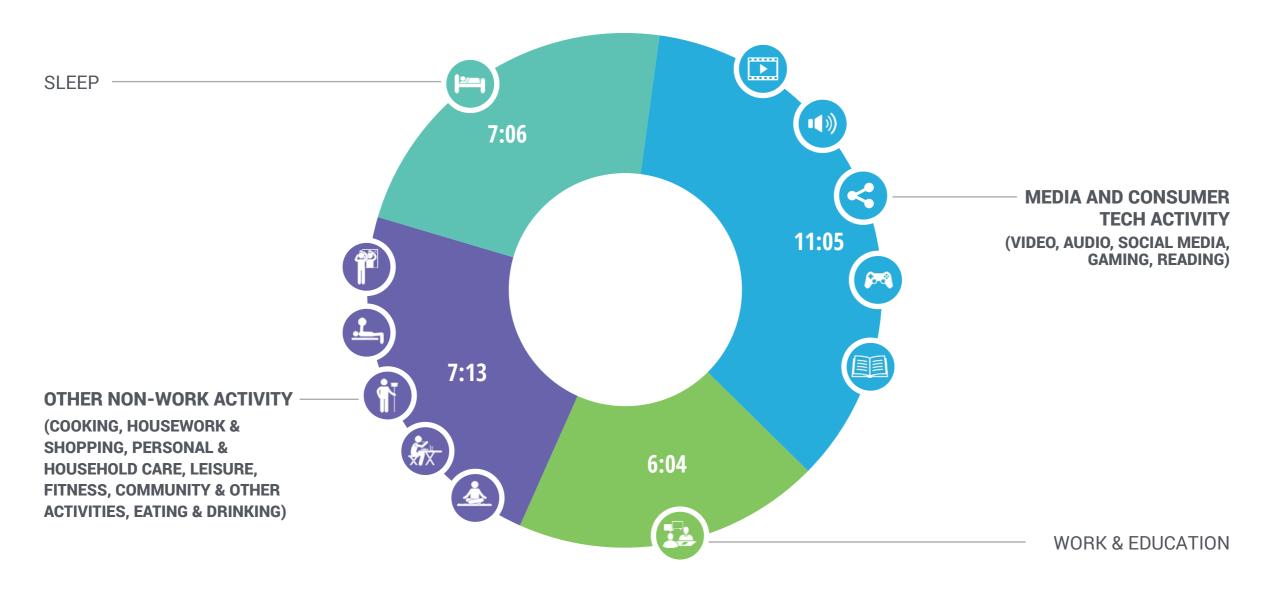


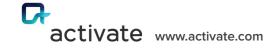


The total tech and media attention up for grabs is enormous: more than half the waking day is spent on tech and media

Average Employed Adult Daily Behavior, U.S., 2014, Hours: Minutes

TOTAL: 31 HOURS 28 MINUTES





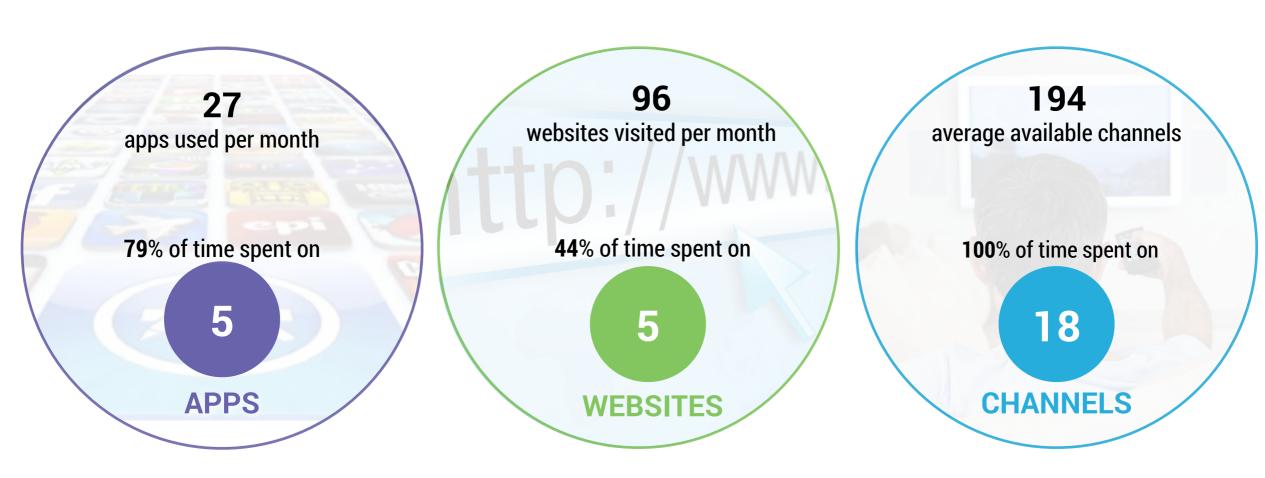
All of this attention is split up across relatively few apps, sites and channels

Actual Consumption for Apps, Websites, TV Channels, U.S., 2014

APP SHARE OF TIME SPENT

WEBSITE SHARE OF TIME SPENT

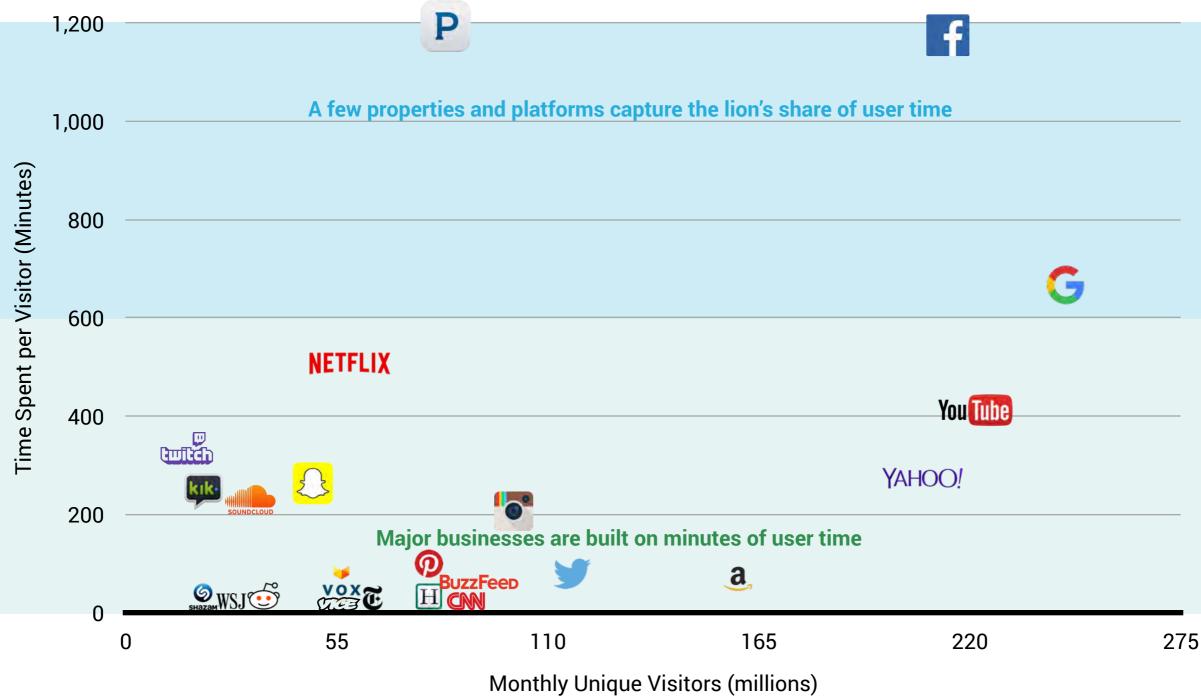
TV CHANNEL CONSUMPTION





We can find growth opportunities in people's online behavior: how many users visit the top websites and apps, and for how long?

MUVs vs. Minutes per Visitor per Month, U.S., January - September 2015



A billion dollar business can be built by capturing less than a minute of an average user's daily attention

Average Time per User (MUV) per Day, U.S., Valuation (in billions)









10 SECONDS \$1.8 B



36 SECONDS \$1.5 B

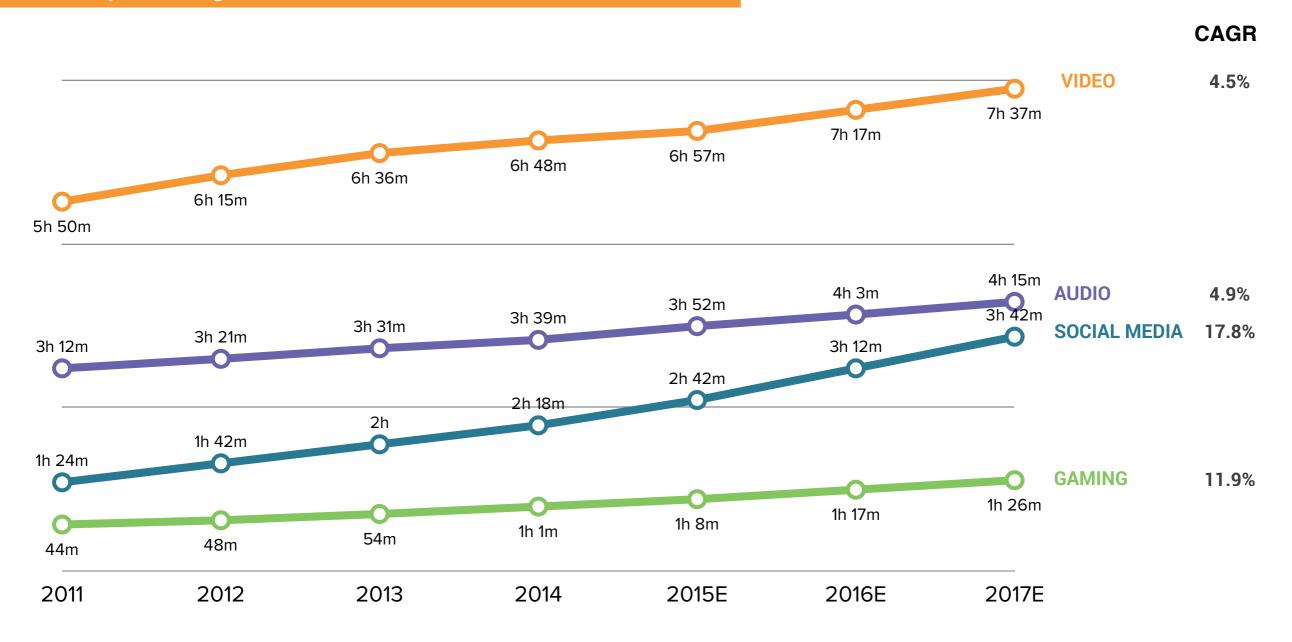


19 SECONDS \$1.0 B



Time spent on major digital activities like video, audio, social media and gaming will continue to increase

Time Spent Among 18+ Users, U.S., 2011 - 2017E, Hours: Minutes





These behaviors dominate people's attention around the world





Multitasking will continue to grow as new products and experiences expand the number of multitasking moments

Google Self-Driving Car





Microsoft HoloLens

Amazon Echo





Disney Playmation

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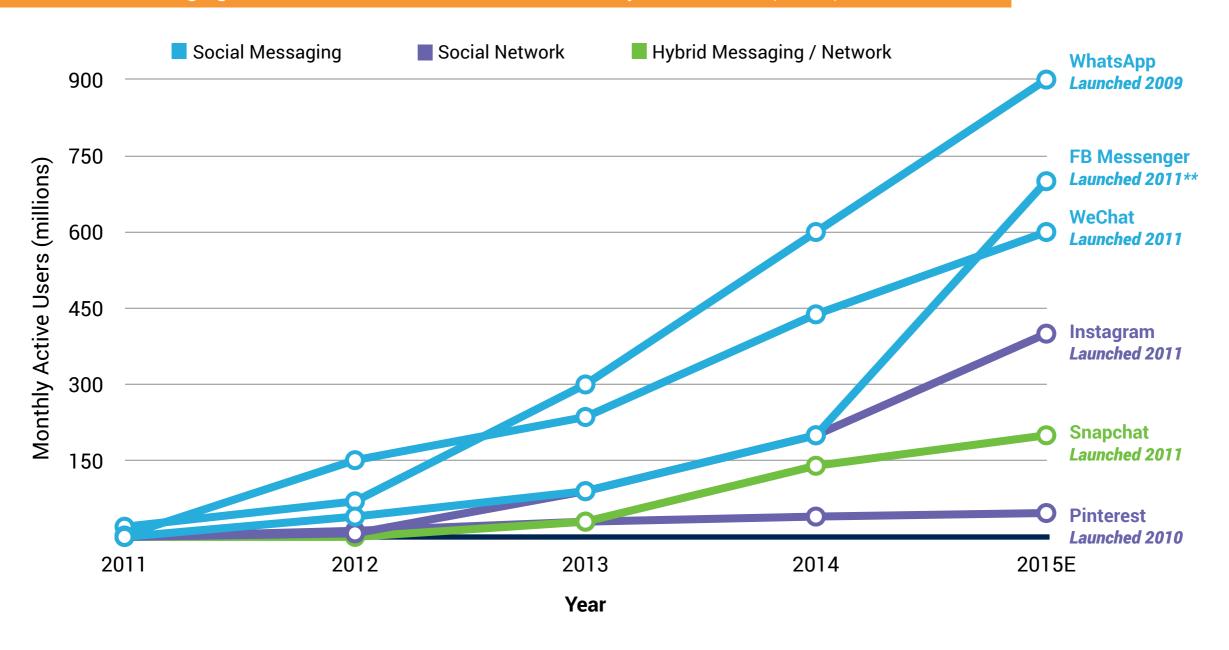
ONE SIMPLE WAY TO PREDICT WHAT TECH & MEDIA PLAYERS WILL DO NEXT TO COMPETE



14

Messaging has been the fastest-growing online behavior within the social landscape over the past five years, passing social networks

Growth of Messaging Platforms vs. Network Platforms, Monthly Active Users (MAUs), 2011 - 2015E*



^{*}Messaging defined as communicating primarily in real time with other contacts; social defined as broadcast sharing of status updates, images, videos, or other content. All data measured from Q2/Q3 of each year.

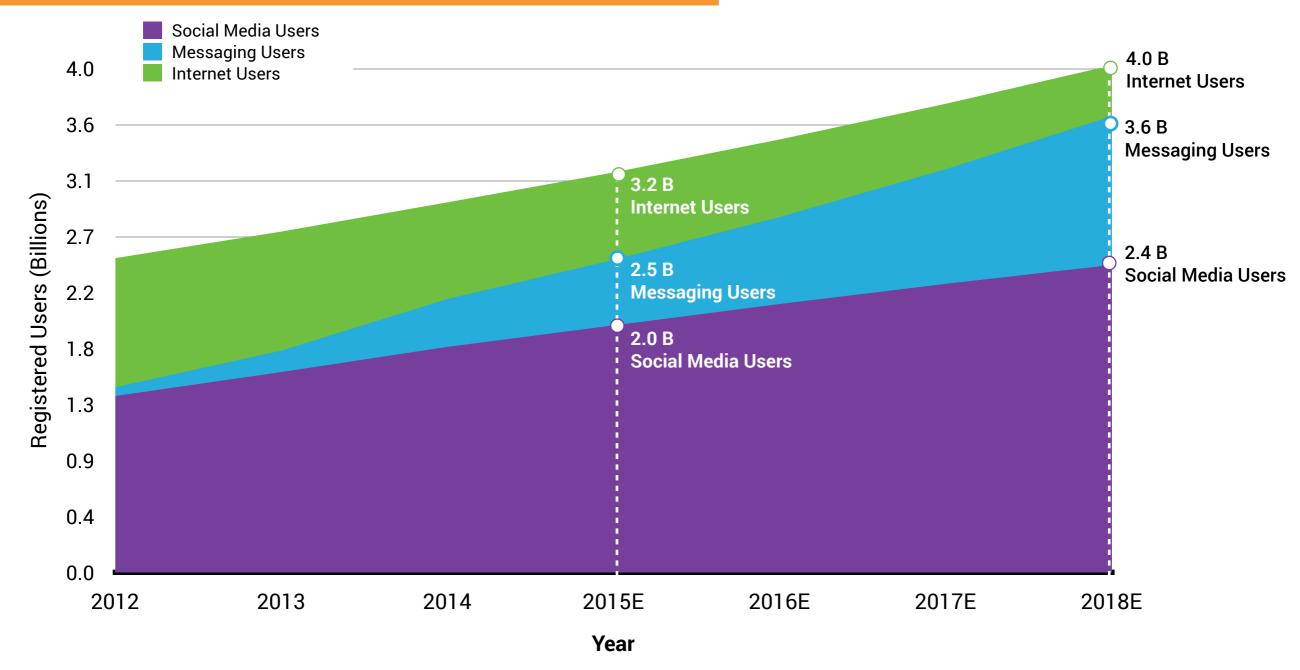
Sources: Business Insider, Fortune, Mashable, Instagram, AppAnnie, AdWeek, Quartz, Yahoo Finance, Experian, TechCrunch, Forbes, Tech in Asia, eMarketer, Compete, Activate analysis



^{**}Became standalone app in 2014

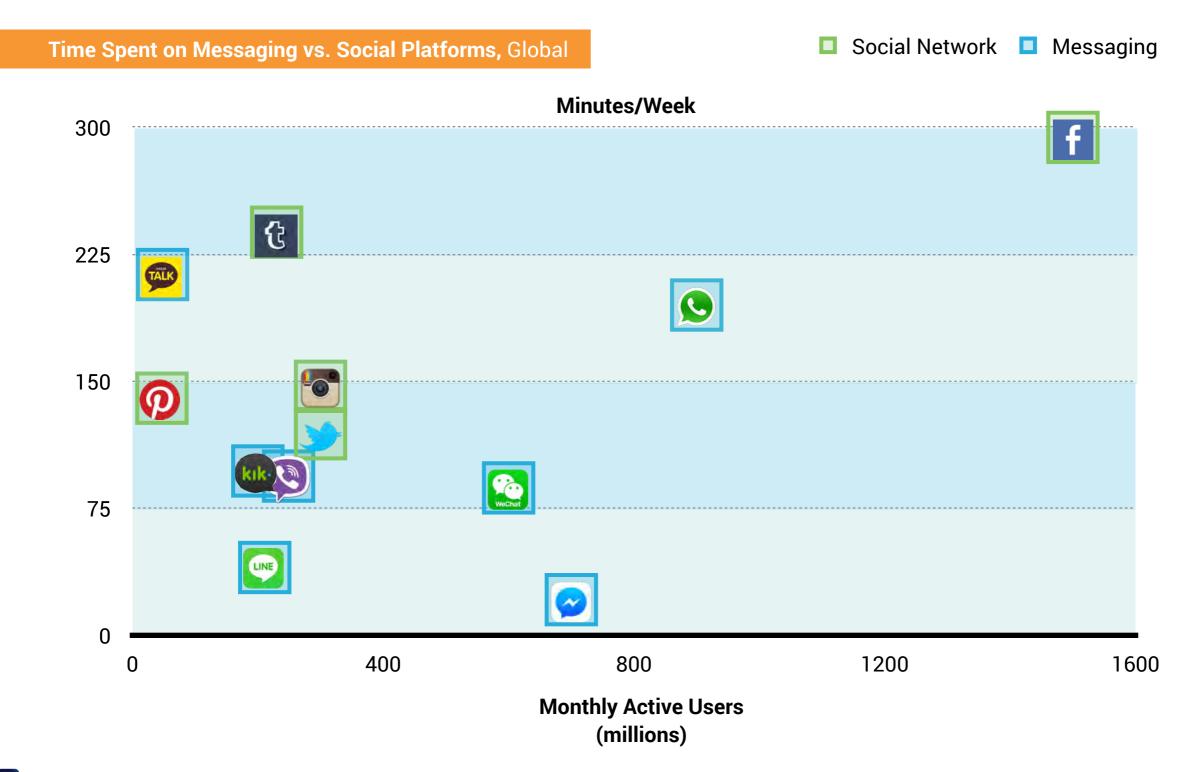
We forecast that messaging will add 1.1 Billion new users by 2018

Users of Messaging, Social Media, and Internet, Global, 2012 - 2018E





Some messaging platforms already rival social networks for time spent by users



Clear leaders are emerging in the messaging landscape; Facebook Messenger and WhatsApp are global, others dominate locally

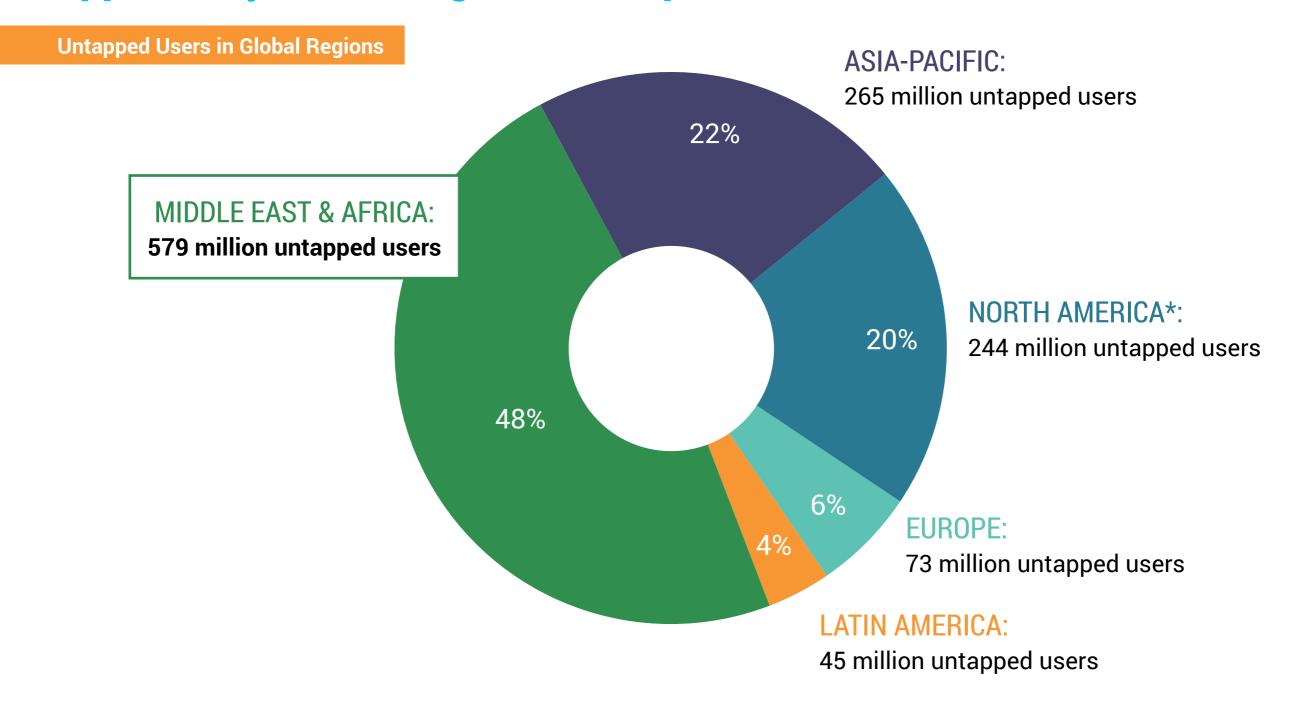
While founded in the U.S., both WhatsApp and Facebook
Messenger have attracted global audiences

Name	Monthly Active Users (in millions)		Geography of Dominant User Base
WhatsApp	900		Global
Facebook	700		Global
WeChat	600		China
QQ Mobile	~600	*	China
Gchat	>425	*	USA
iMessage	~400	**	USA
Viber	249		EMEA
LINE	211		Japan
Snapchat	200		USA & EMEA
Kik	200		EMEA
Telegram	85		EMEA
Tango	80		APAC
KakaoTalk	48		South Korea
Hike	35		India
Zalo	~18	*	Vietnam
Path Talk	10		USA
FireChat	< 5	*	EMEA & APAC
YikYak	4		USA
SOMA	< 2		Saudi Arabia
Jott	< 1		USA
Nimbuzz	N/A		India
Microsoft Send	N/A		USA
Vurb	N/A		USA

The third largest
messaging platform is
Chinese — WeChat
(and its predecessor
QQ Mobile) owned by
Tencent



Almost half the growth opportunity for messaging players is in the Middle East & Africa; North America presents a significant opportunity if messengers can displace SMS

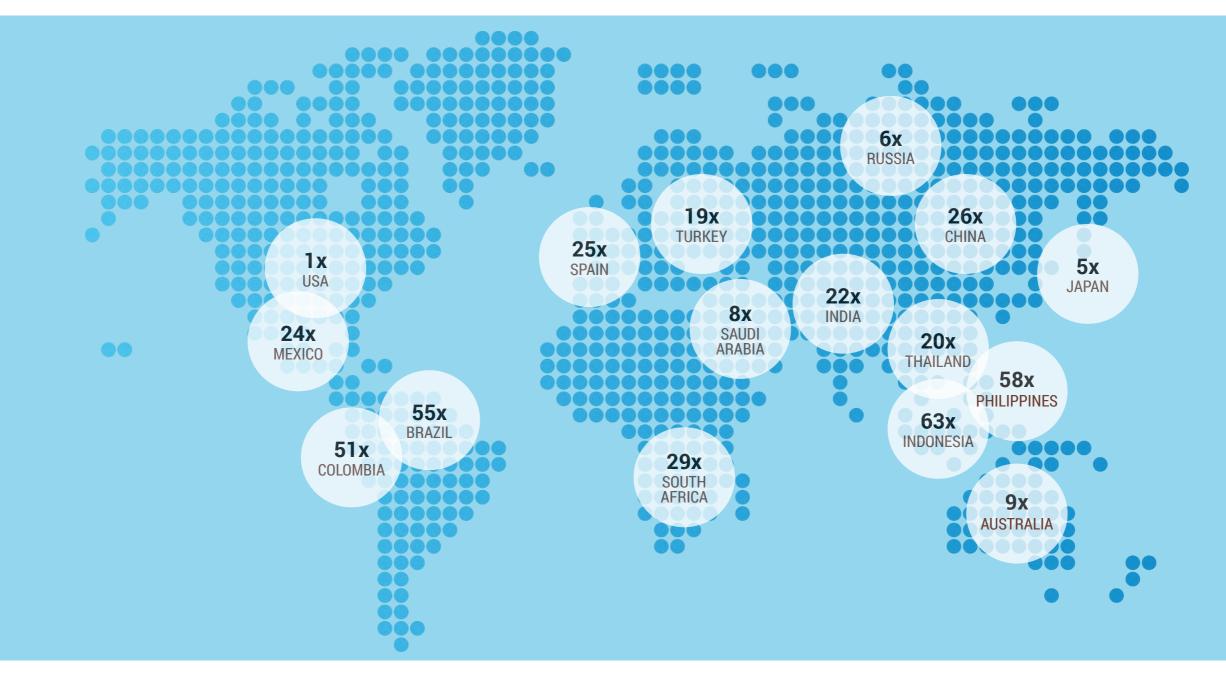




The messaging boom is about price—sending an SMS is up to 63x more expensive outside the U.S., while messaging apps are flat-fee or free

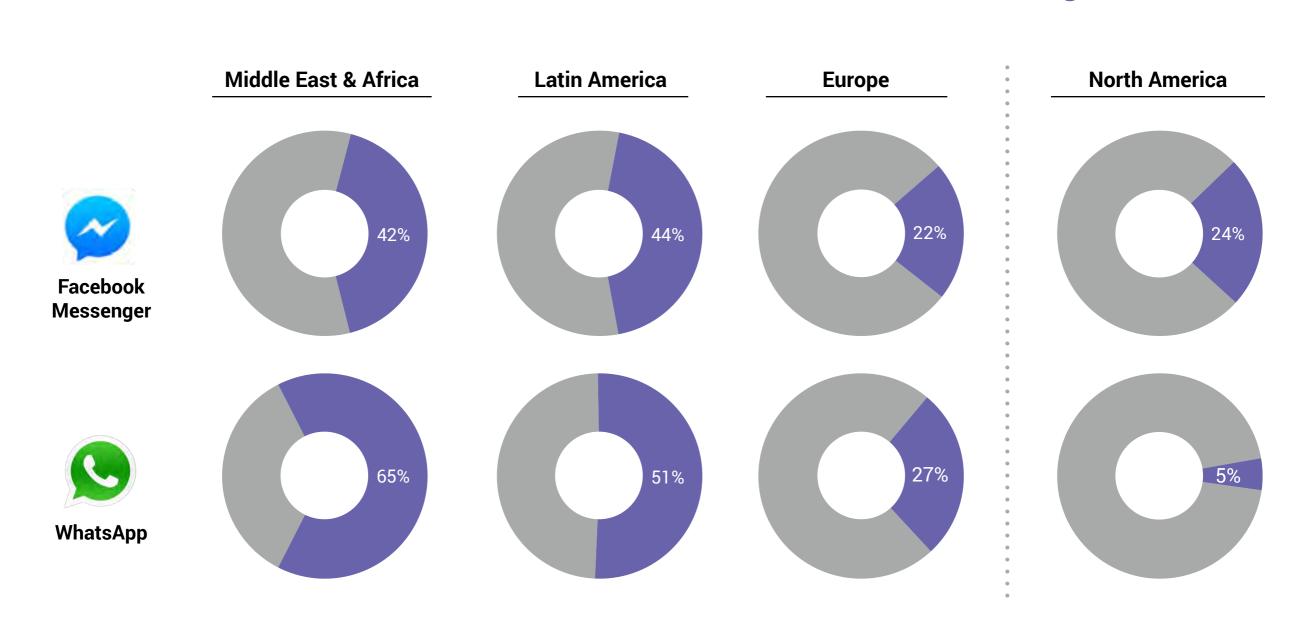
Comparative Cost of Sending SMS

Indexed Against United States SMS Costs
Normalized for Median Household Income & Purchasing Power Parity



Facebook's WhatsApp and Messenger are the only global players, leaving them in the best position to capitalize on messaging

Messaging App Regional Share of Smartphone Owners



Penetration Rate

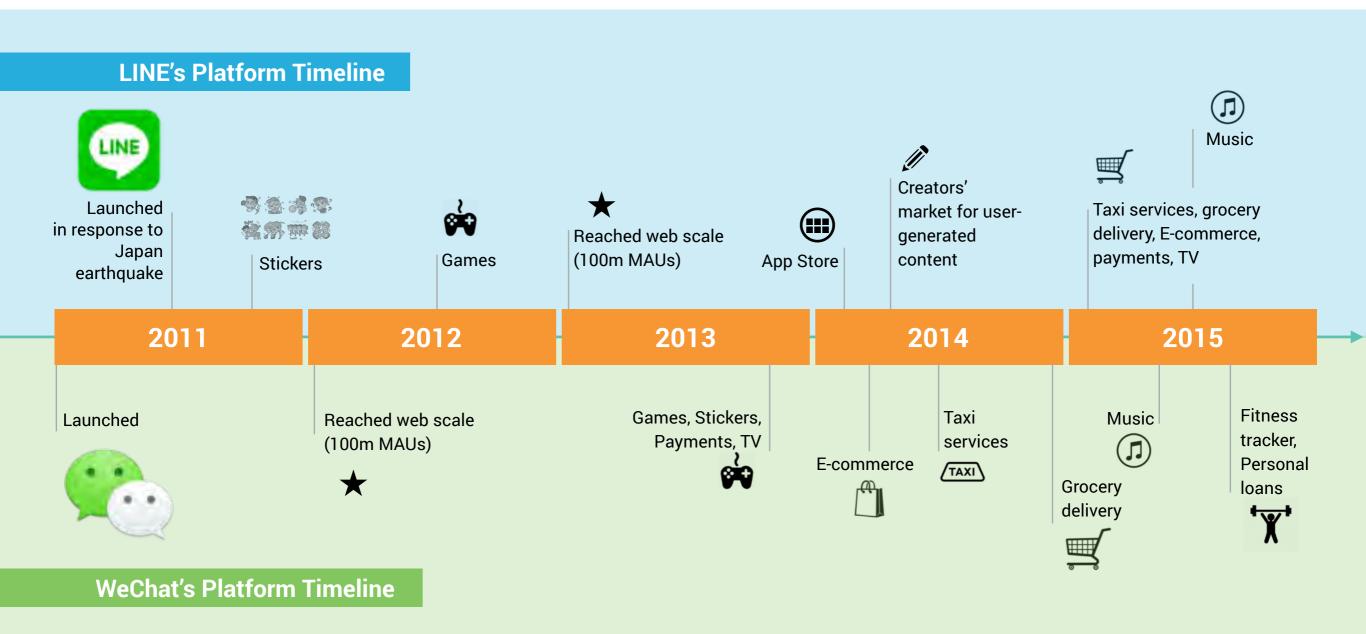
In Asia-Pacific, local messaging apps dominate in the largest countries, but in Southeast Asia global players are competing

Penetration by Country, Local vs. Global Messengers

Major local players	Country	Dominant Local (APAC) App		Facebook Messenger 😞	WhatsApp 🕓
	China	WeChat	0.65	0.04	0.03
	Japan	LINE	0.6	0.02	0
	South Korea	TÄLK	0.43	0.18	0.02
Southeast Asia: Competition from global players	Taiwan	LINE	0.48	0.34	0.1
	Thailand	LINE	0.54	0.46	0.12
	Vietnam	Zalo	0.4	0.5	0.07
	Philippines	LINE	0.09	0.52	0.1
	Malaysia	WeChat	0.31	0.49	0.64
	Indonesia	LINE	0.31	0.4	0.45



As major Asian messaging platforms reach scale, they have launched new first-party and third-party services as apps on top of messaging, capturing significant messaging revenues





Apps built on top of messaging enable users to solve broad problems; messaging becomes a hub for consuming content, playing games, and conducting transactions

LINE Example





LINE Music



LINE TV



LINE Payments



LINE Games





24 Sources: LINE.com

Facebook messenger has been focusing on building scale and is now starting to add platform layers and its first app features

facebook.

WHATSAPP ACQUISITION

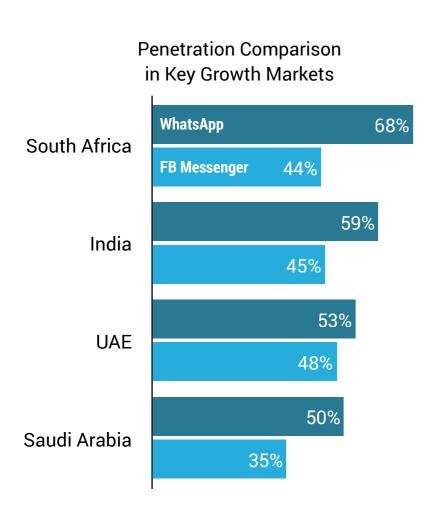
Access to High Growth Markets
February 2014

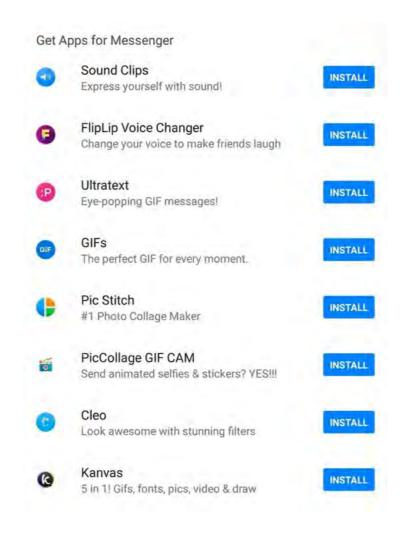
MESSENGER APP STORE

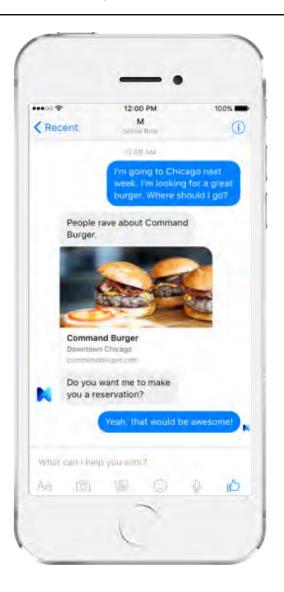
Apps for Audio, Photos, GIFs
August 2015

VIRTUAL ASSISTANT "M"

Artificial Intelligence
September 2015







Apple's Messages has the potential to gain significant market share, and Apple's platform control could support smarter apps



2015 YTD MARKET SHARE

Pre-Installed User Base, High Penetration in USA

SMS INTEGRATION

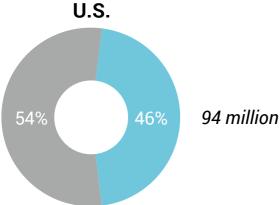
One Interface for Messages and SMS

iOS APP STORE

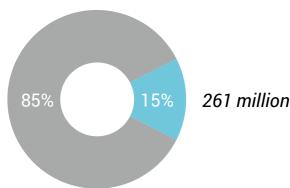
Apps Remain Separate from Messages

Unpenetrated %

Penetrated %

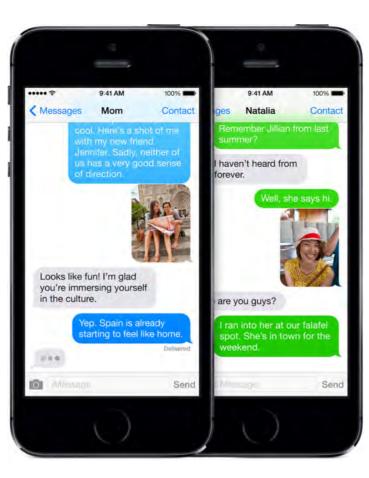


Non-U.S.



iMessage

SMS





While Snapchat is growing quickly, the company has not yet developed a consistent approach to expanding its platform while building a revenue model



SNAPCASH

Payments Service
November 2014

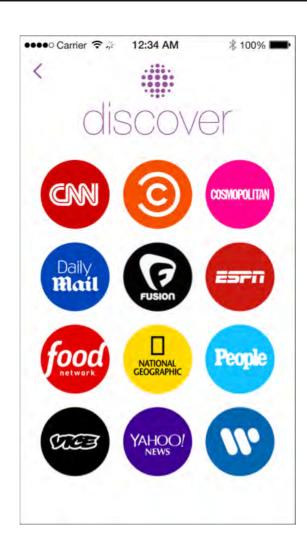
DISCOVER

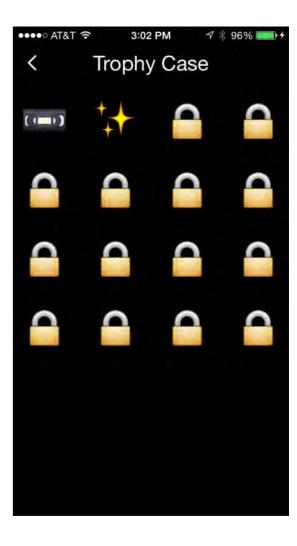
Paid Content Distribution
January 2015

TROPHY CASE

Gamification of User ActivitySeptember 2015







New entrant Vurb pulls search results from across third-party apps and integrates with messaging, minimizing the need for app switching

Vurb

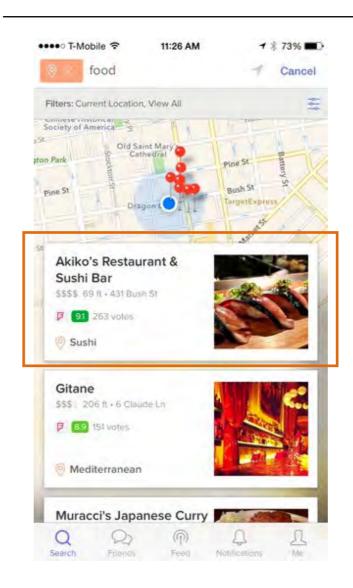
SEARCH

Mobile-Friendly Search Categories



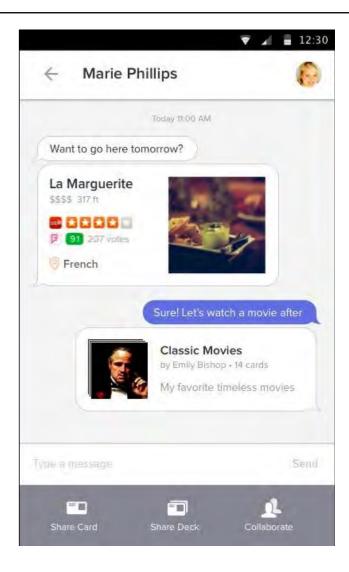
CONTEXTUAL RESULTS

Context from Other Apps Aggregated into Search Results



INTEGRATION WITH MESSAGING

Users Integrate Search Results into Chats
August 2015

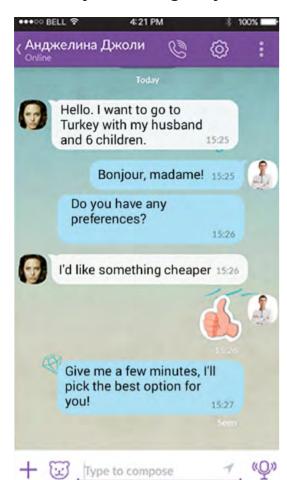


New consumer businesses are being built on messaging platforms — this will expand as messaging bots become more ubiquitous

Platform-Specific Messaging Businesses (Operate through At-Scale Messaging Services)

POCKETTOUR

Third-Party Travel Agency on Viber



TRAVEL

Travel agency built on top of Viber for easy booking and correspondence with agents

WeBank

First-Party Bank Built by WeChat



PERSONAL FINANCE

Online-only bank that operates outside the WeChat interface but uses WeChat login credentials for its accounts

Jobot

Third-Party Bot on WeChat



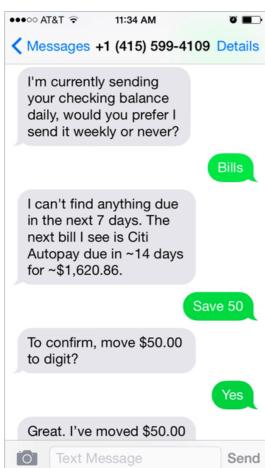
CAREER

Bot that helps WeChat users search for jobs based on Q&A style conversations

In the US, low cost means consumer businesses can leverage both SMS and proprietary messaging platforms like Apple iMessage

Platform-Agnostic Messaging Businesses (Operate Through SMS or iMessage)





PERSONAL FINANCE

Automated savings and daily updates on checking account balance, upcoming bills, and savings progress

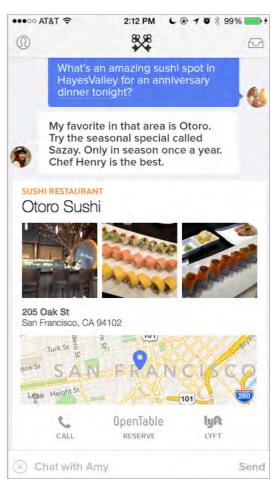




PERSONAL ASSISTANCE

Message-based personal assistance for shopping, errands





TRAVEL

Chat with locals while traveling for immediate, person-to-person recommendations

Enterprise is also starting to move to app-enabled messaging with bot integrations



1.1m Daily Active Users 300k Paying Users

MESSAGING & SEARCH



LAYER #1 - MESSAGING

Real-time messaging with co-workers; flexibility to chat in 'channels,' 'private groups,' or 'one-on-one'

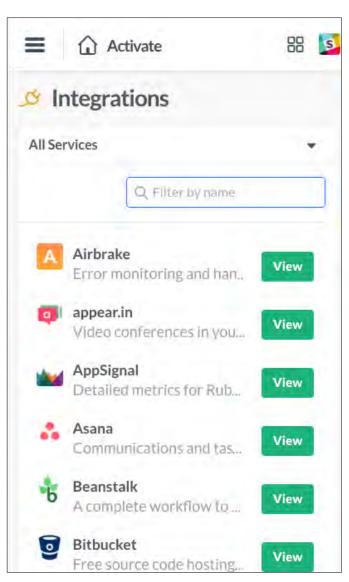
LAYER #2 - APPS & BOTS

Third-party integrations and automated bots function like an app store — this differentiates Slack from competition and is essential for adoption.

LAYER #3 - SEARCH

Enables users to sift through messages and files, over specific date ranges or from specific people

APPS & BOTS



What users do in native apps today, they will also do in messaging apps tomorrow – presenting an enormous revenue opportunity

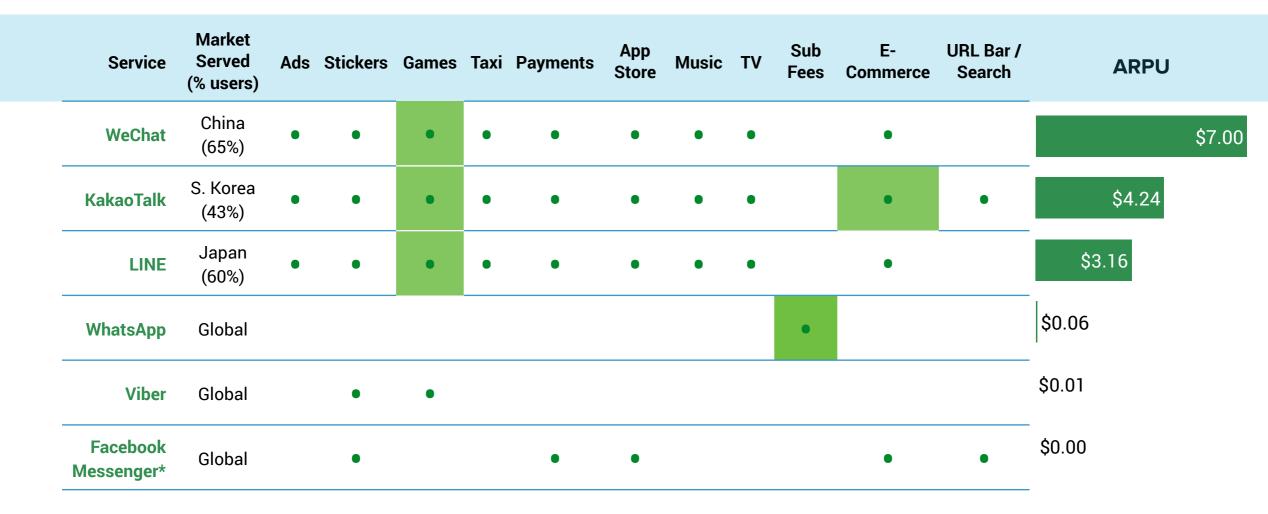
New & Potential Functions for Messaging

Function	Innovator	Feature	Launch Date	Revenue Opportunity
News	Snapchat	Discover	1/2015	Sponsored content Native ads
Shopping	LINE	LINE Shop	2/2015	Percentage of transaction
Mobile Web	Kik	Kik Browser	4/2015	Advertising
Productivity	Facebook Messenger	'M' Virtual Assistant	8/2015	Search ads
Games	XBOX Live	Live Social Gaming	9/2015	In-game purchases Advertising
Finance	WeChat	WeBank Loans	9/2015	Interest from loans
Education	TBD	TBD	TBD	Fees for courses
Sports	TBD	TBD	TBD	Fees for betting Paid fantasy leagues
Health & Fitness	TBD	TBD	TBD	Advertising
Business	TBD	TBD	TBD	Paid job posts



Asia-Pacific platforms demonstrate the money potential in messaging - and global players are just getting started

Platform Sophistication Compared to Annual ARPU, 2014







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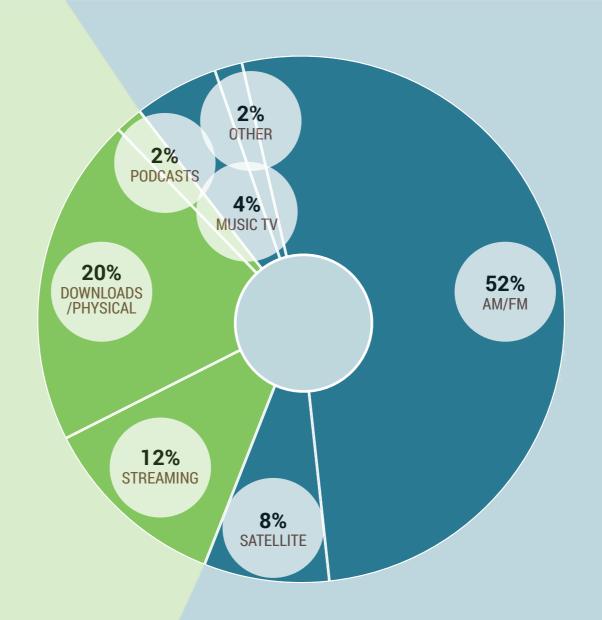
34

What's at stake in the audio market? Over four hours a day of listening time—and growing

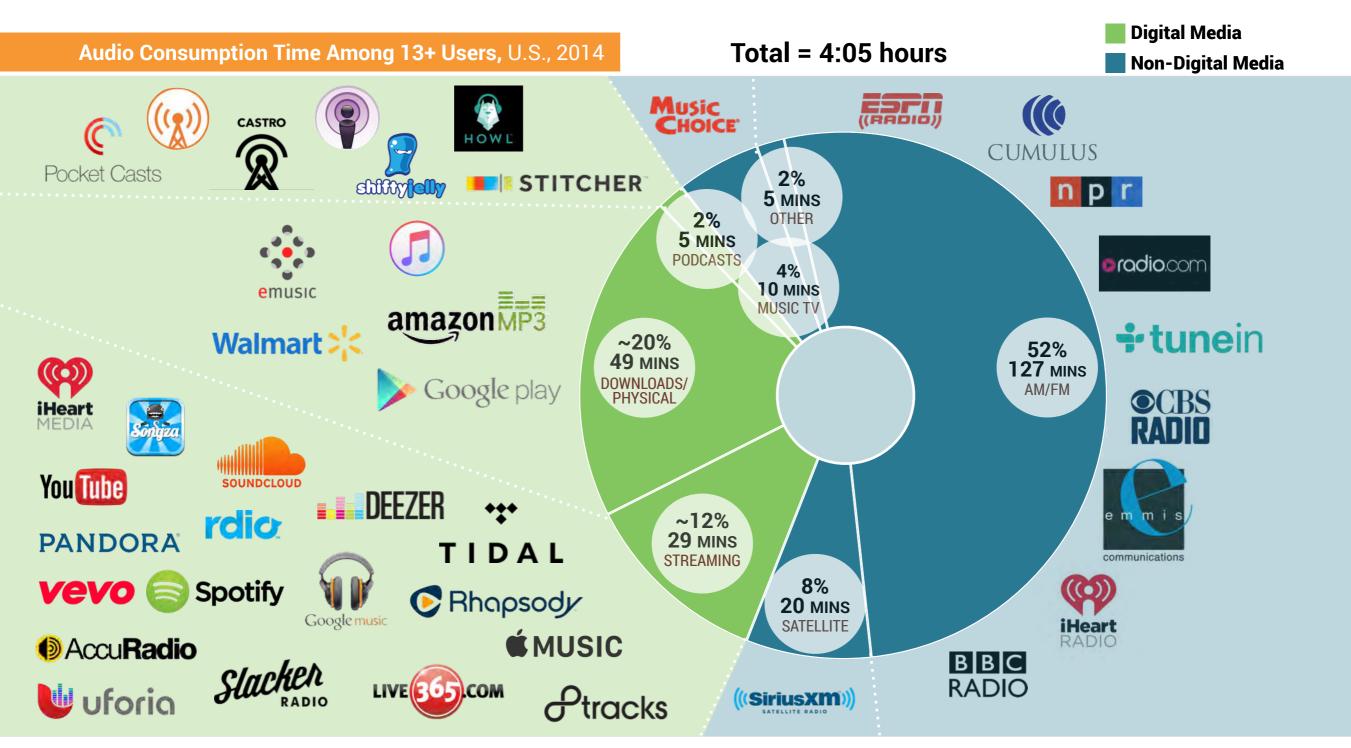
Audio Consumption Time Among 13+ Users, U.S., 2014

Total = 4:05 hours

Digital MediaNon-Digital Media



There's a proliferation of new digital players, but many crowded categories only represent a small fraction of overall listening



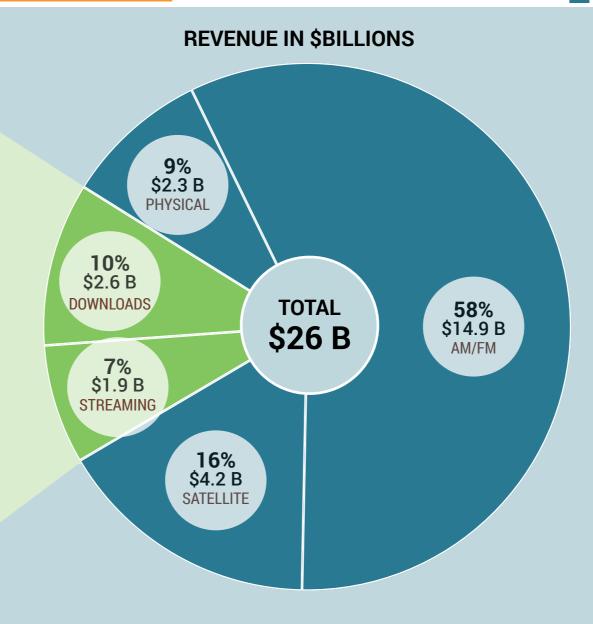
Expect growth to come from digital players claiming their fair share of the pie

Consumer and Advertising Spend on Music Listening, U.S., 2014

Digital MediaNon-Digital Media

DIGITAL takes up over a third of listening time, but less than a fifth of total revenue

TOTAL U.S. DIGITAL REVENUE \$4.5 B

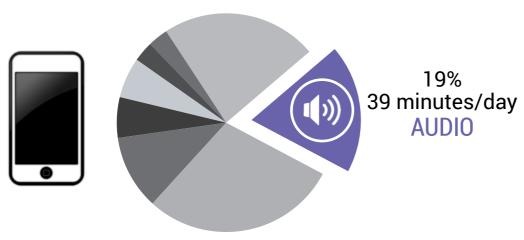


Consumers will spend more time on digital audio, driven by multitasking moments

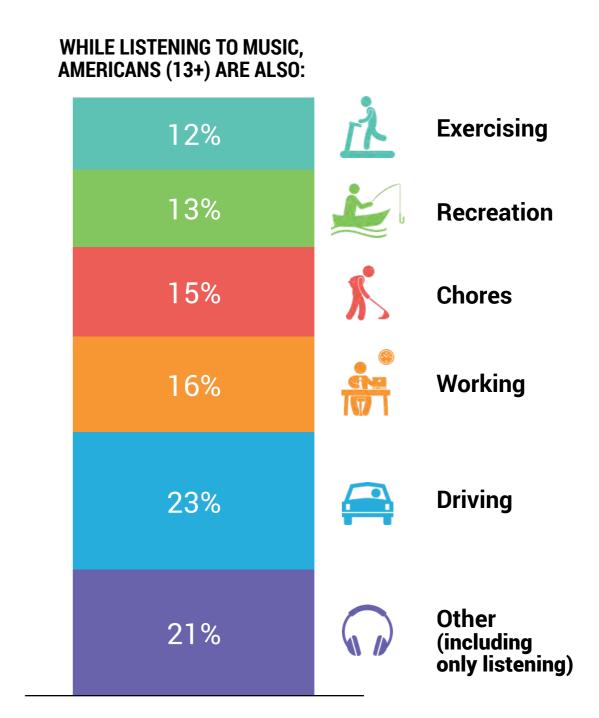
TYPICAL U.S. DAILY BEHAVIOR, AGES 13+ 2014



SHARE OF MOBILE APP TIME SPENT, June 2015



Total mobile app time: 3:25 hours/day

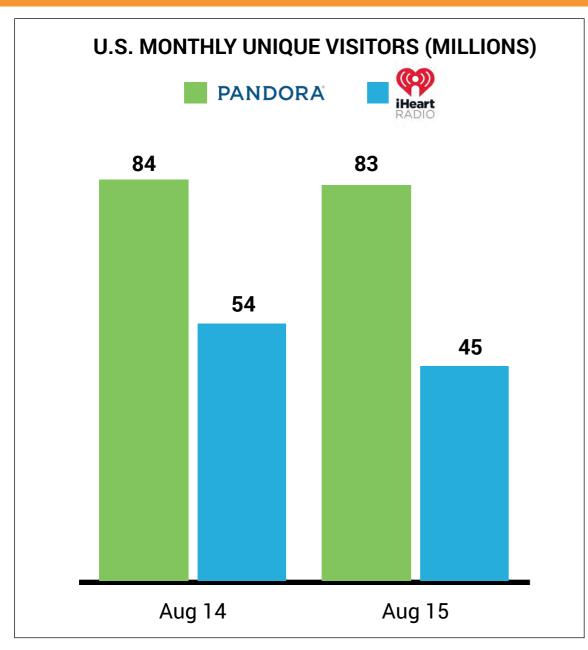


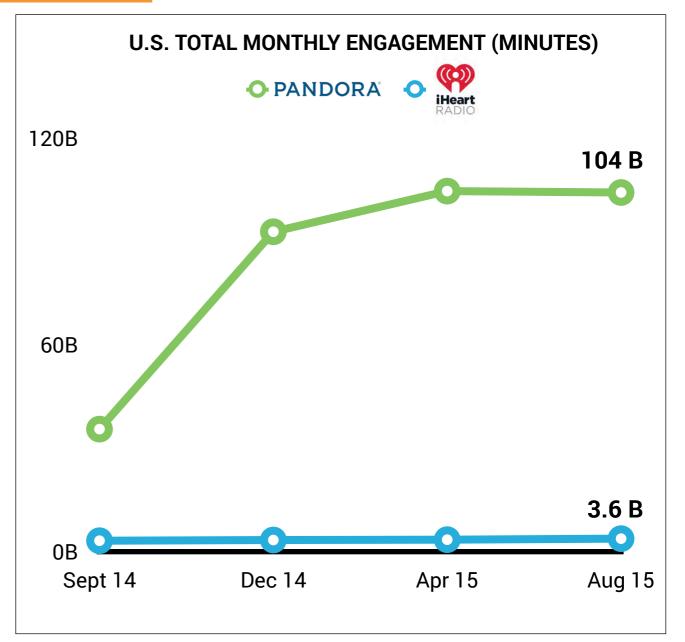
Today, young listeners spend more time listening through streaming, but AM/FM radio remains the largest overall

Streaming Services Daily Listening to Streaming Services vs. AM/FM by Age Group, U.S. 2014 AM/FM PERCENTAGE OF DAILY LISTENING TIME AGE 13-17 -55% 45% AGE 17-34 -35% 65% AGE 34-55 -17% 83% AGE 55+ 6% 94%

Legacy players have migrated audiences to digital streaming services, but inferior user experiences leave engagement lagging

Monthly Visitors vs. Total Digital Engagement, Pandora and iHeartRadio





40



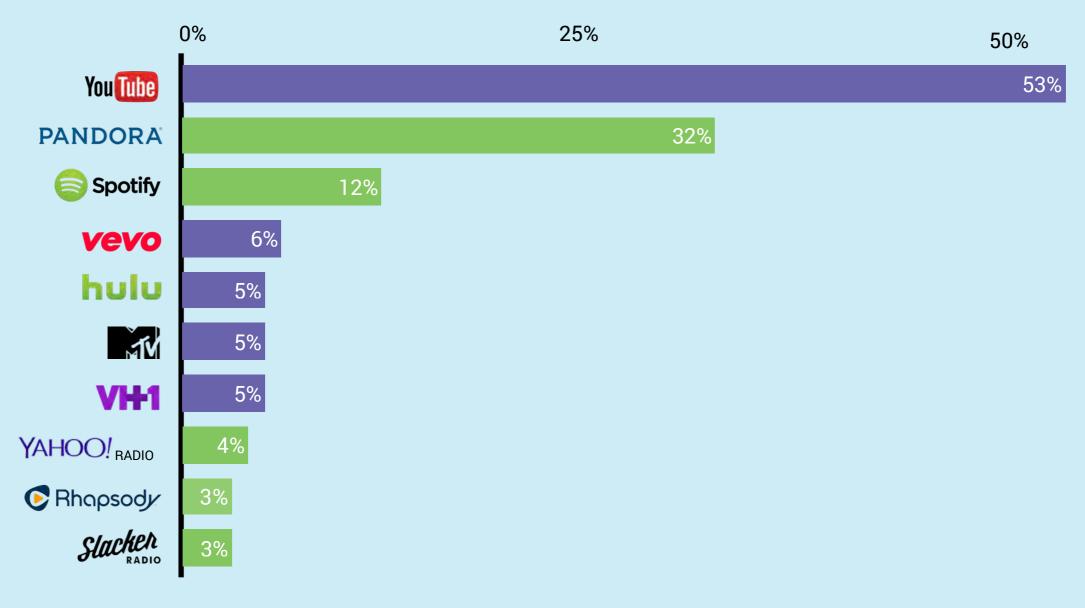
Sources: comScore, Activate analysis

If we isolate YouTube's audio usage, online music was dominated by three services last year — with different user experiences and monetization models

Music Sources Used, U.S., 2014



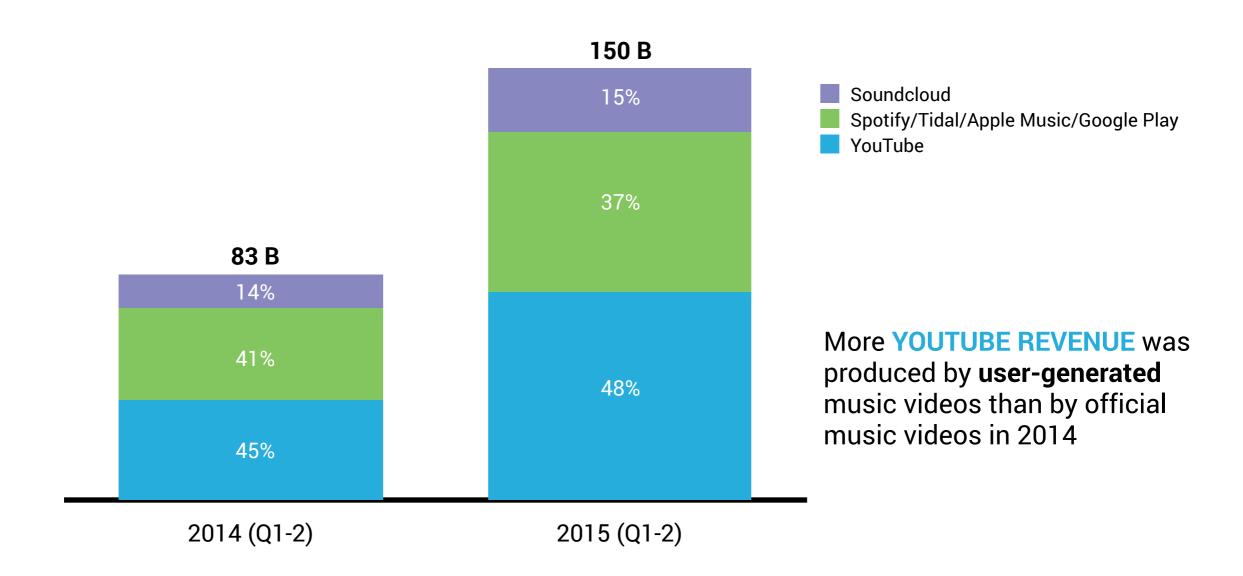
PERCENTAGE OF INTERNET ADULTS, PAST 3 MONTHS



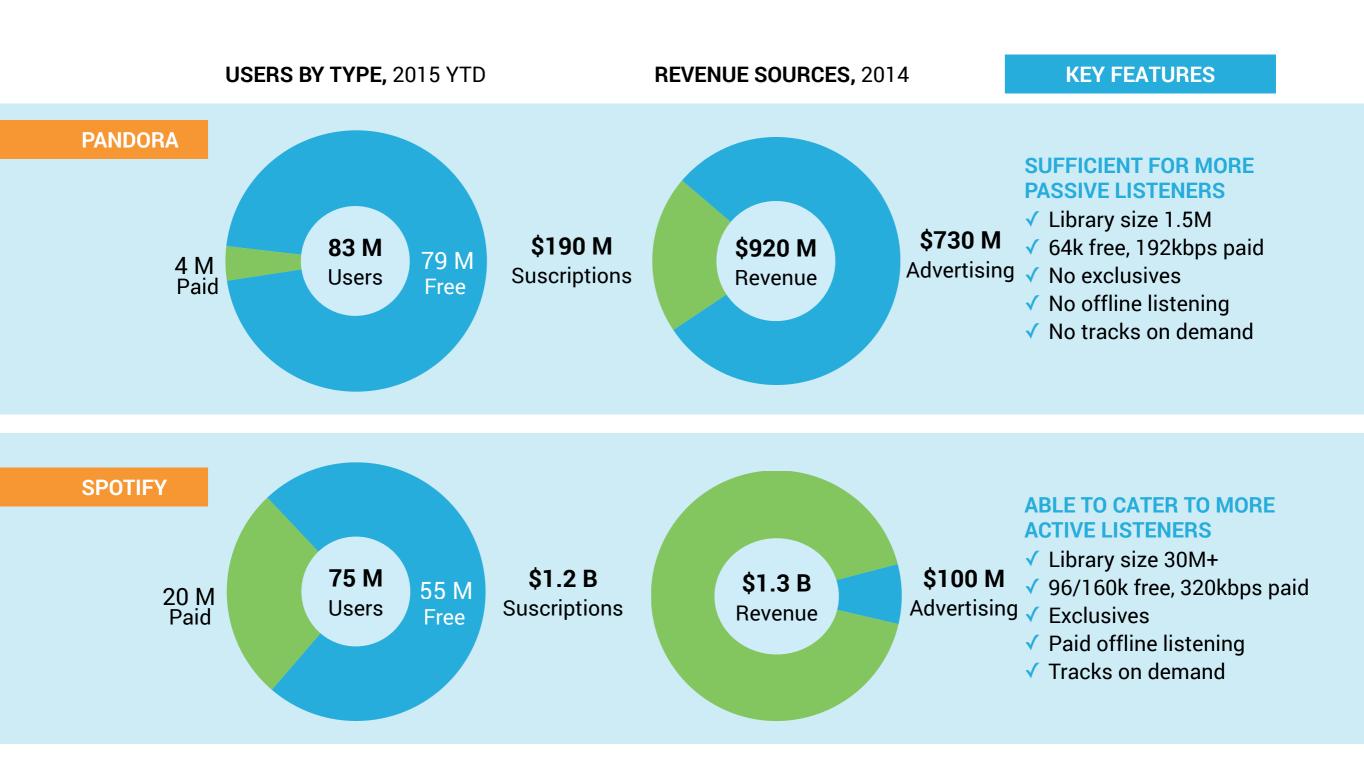
YouTube is even more dominant for on-demand streaming, representing over half of all on-demand streams

Total Streams by Service, Q1 - Q2, 2014 vs. 2015

BILLIONS OF STREAMS



Today, Spotify and Pandora are not in the same business: they cater to two different audiences, and have different monetization models



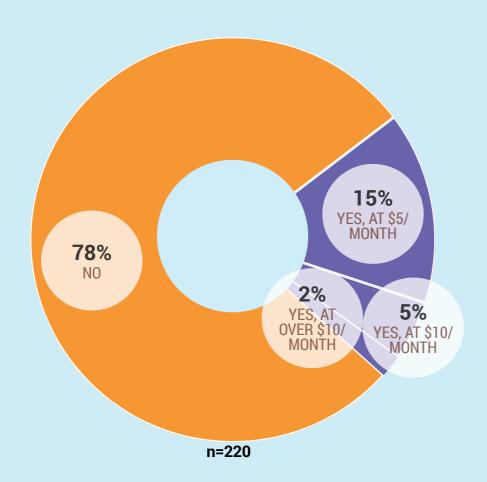


Subscriber loyalty will present a challenge to new services, but YouTube has a shot because music listeners are willing to pay

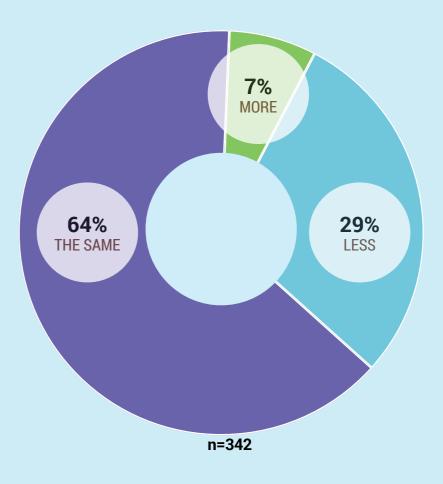
Consumer Preferences in the Digital Streaming Music Space

EXISTING STREAMING SUBSCRIBERS:

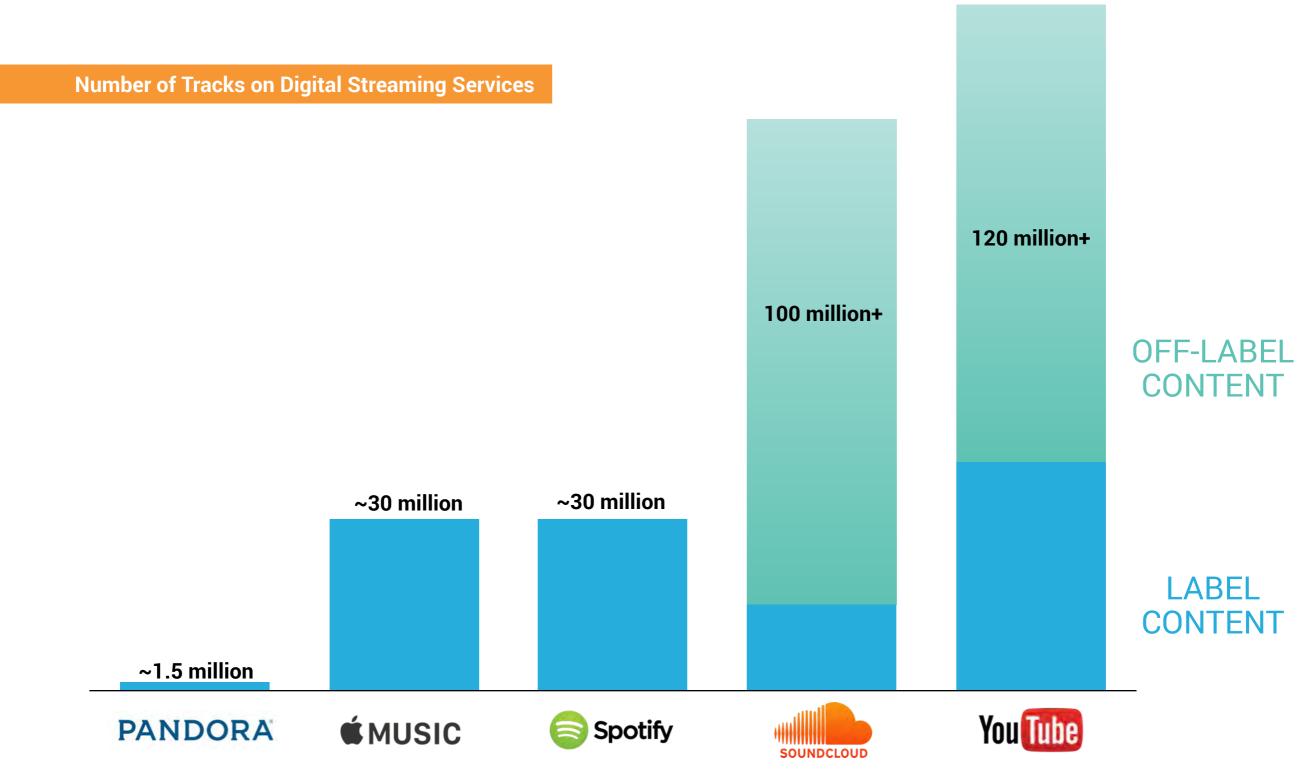
WILLINGNESS TO SWITCH TO ANOTHER SERVICE



POTENTIAL STREAMING SUBSCRIBERS: PRICE TO JOIN A YOUTUBE STREAMING SERVICE, COMPARED TO EXISTING SERVICES

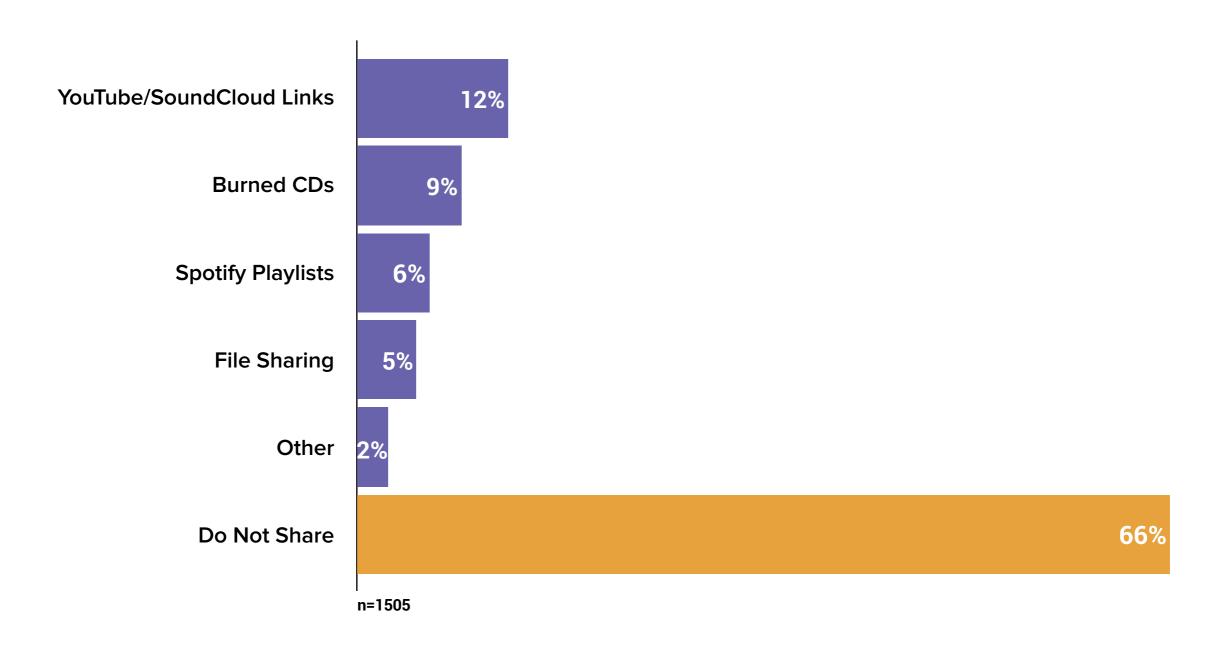


What could make a major new entrant successful? Original, unique songs as found on SoundCloud and YouTube will be a critical factor

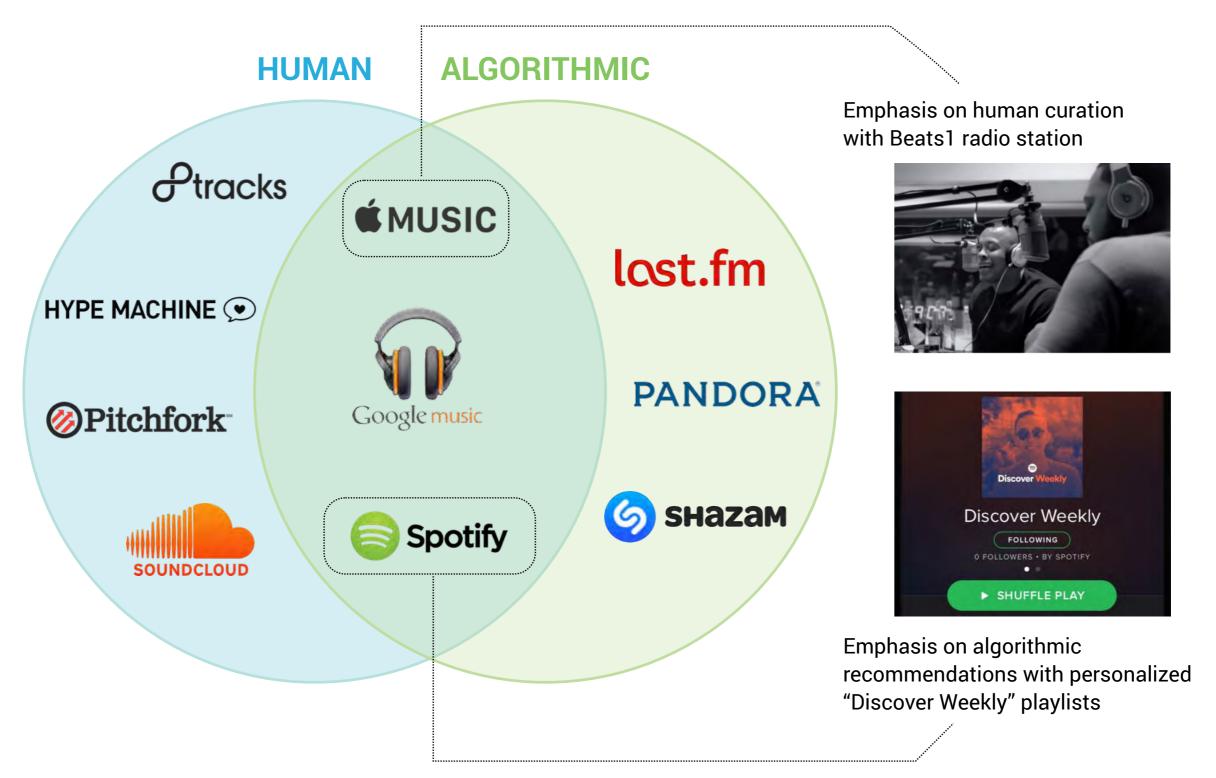


Today, most listeners don't share their listening activity on social networks, creating an opportunity for any player that can improve the sharing experience

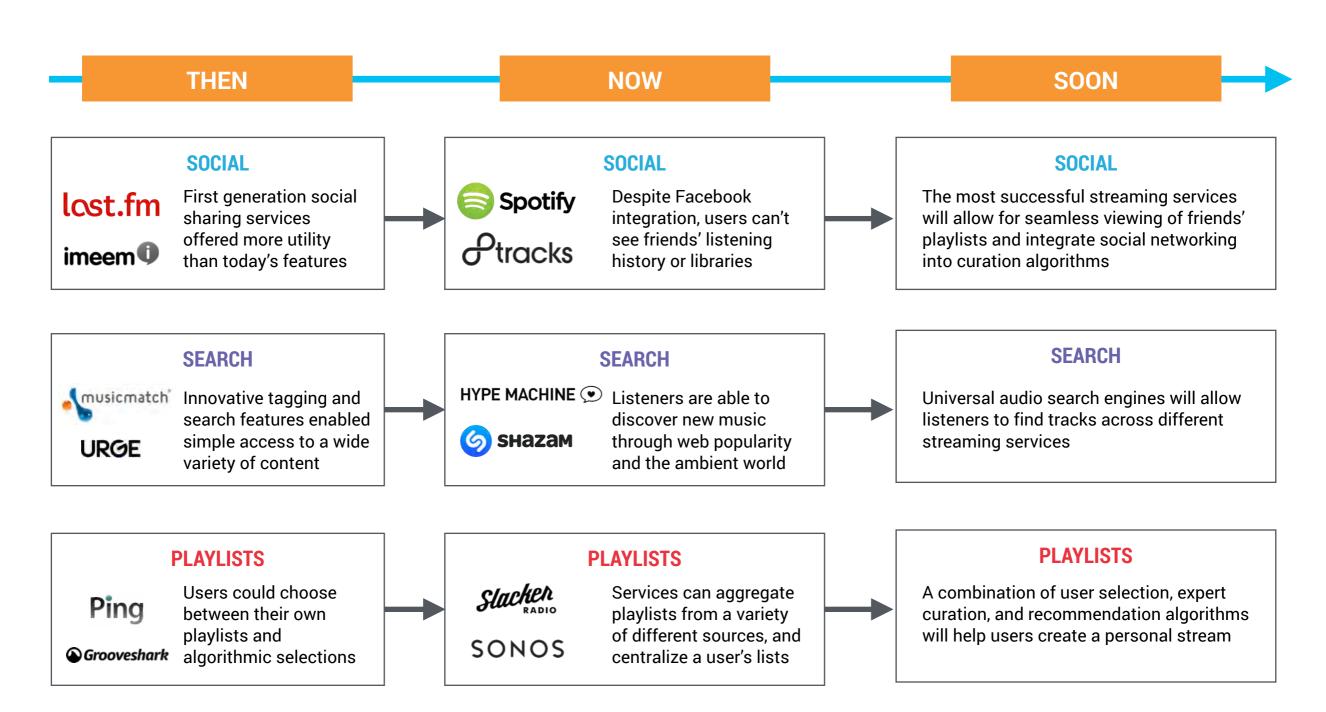
Audio Social Sharing Preferences



Another major area of differentiation will be smart curation that combines human and algorithmic methods



Some of the features that enable new players to succeed may revisit features from past generations of digital music services

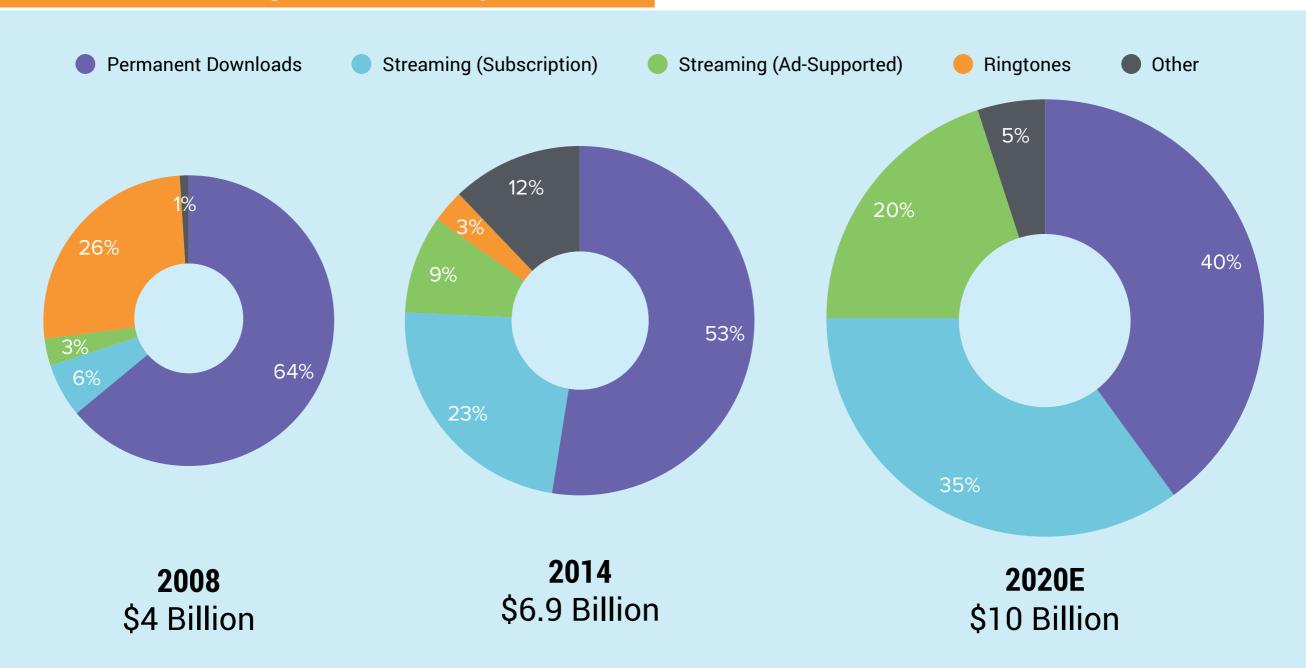


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Sources: Interviews, Activate analysis 48

By 2020, digital music revenues will be \$10 Billion globally, and streaming will be over half of that - growing at the expense of downloads

Activate Forecasts for Digital Music Revenue by Source, Global



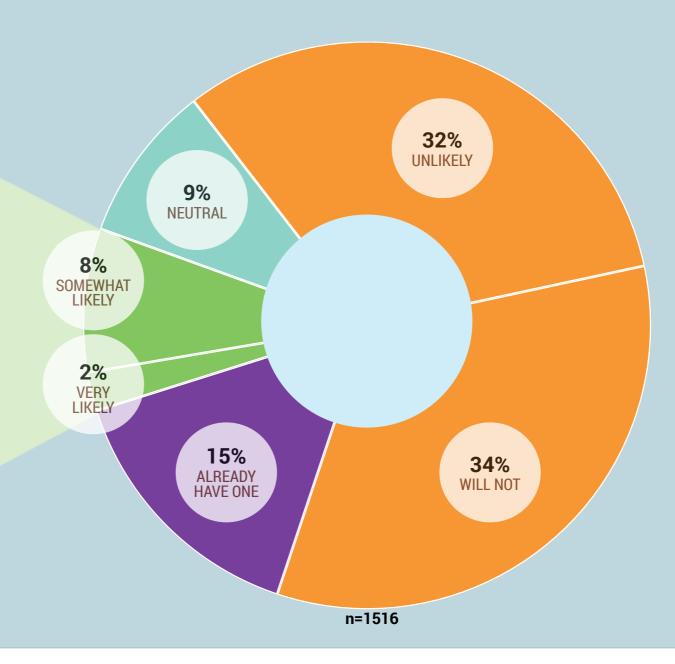
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Sources: IFPI, Activate forecast 49

There may be an upper bound to the number of consumers that are willing to pay for a subscription music service

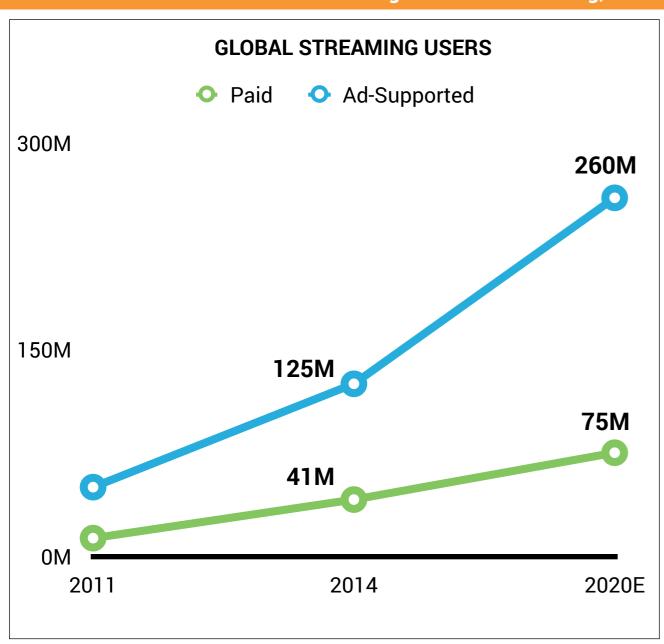
U.S. Consumer Likelihood of Purchasing Music Streaming Subscription in the Next 6 Months

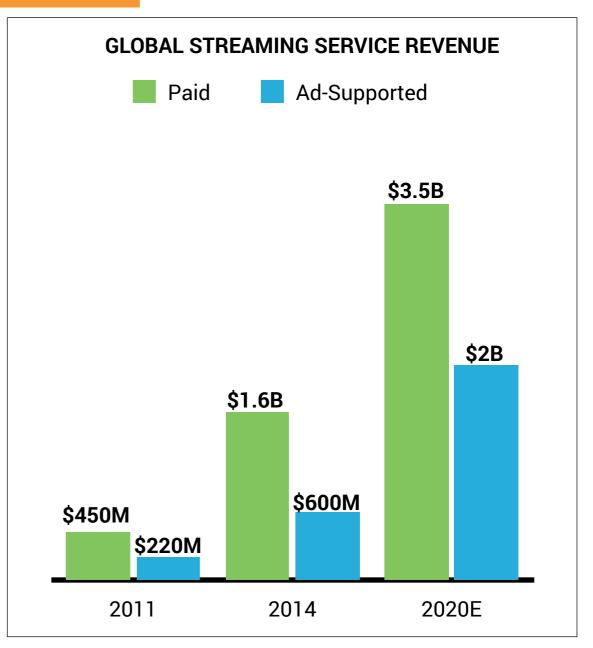
Only an additional
10% of consumers
are open to subscribing
to a streaming service



Most of user growth in digital streaming will be ad-supported, but paid users will account for a far greater proportion of the revenue

Annual User and Revenue Growth in Digital Music Streaming, Global, 2011 - 2020E







Sources: IFPI, Activate analysis 51

Beyond music, opportunities abound in non-music formats as listeners move from analog to digital

THEN

NOW

SOON



TALK

Linear consumption on AM/FM leads to long slots at specific daily times



TALK

Podcast consumption is exploding as non-live distribution lets users listen on demand



Increasing sophistication in podcast advertising networks will lead to higher investment due to desirable demographics

AUDIOBOOKS



Primarily consumed using analog methods like cassettes and CDs



AUDIOBOOKS

Companies like Audible experimenting with subscription-based models

AUDIOBOOKS

Digital distribution methods make audiobooks increasingly attractive for multi-tasked listening while commuting etc.



LIVE SPORTS

Games broadcasted primarily over AM/FM stations



LIVE SPORTS

TuneIn signing premium distribution deals with NFL, MLB Premier League, etc.

LIVE SPORTS

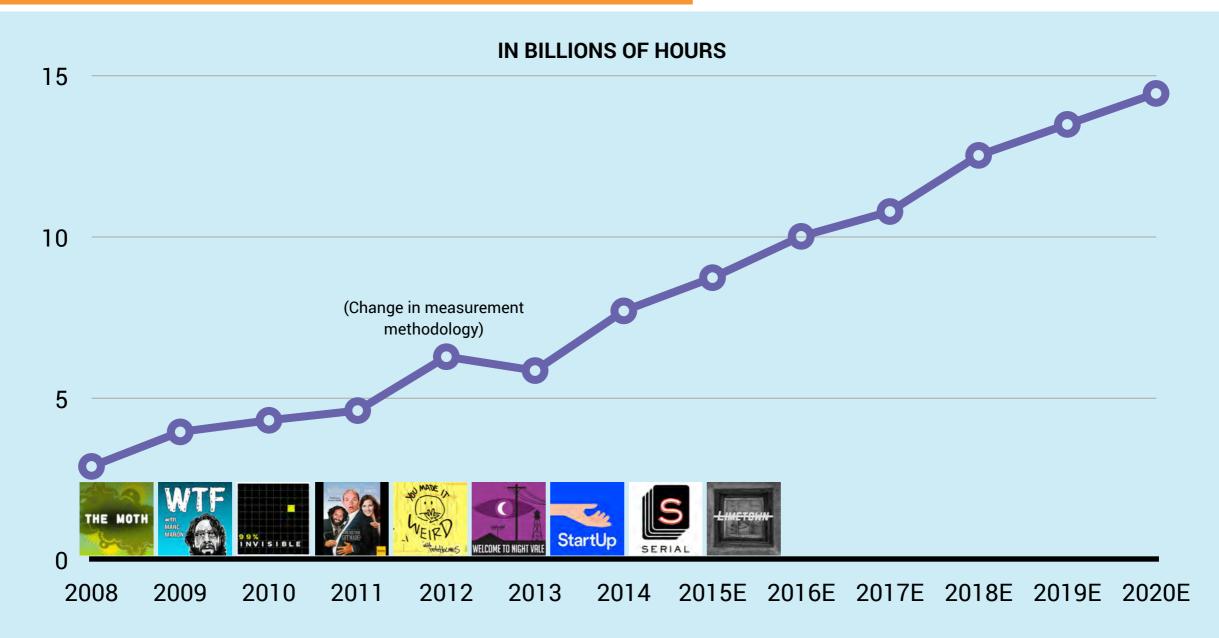
Increasing coverage of Wi-Fi and data networks will make digital distribution of live events more viable

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Sources: Activate analysis 52

It's more than just music: Podcast are having their breakout moment as consumption explodes will continue to grow steadily

Activate Projections: Total Podcast Listening Time, U.S., 2008 - 2020E



Podcast listeners are the elite of audio: they listen to more nonpodcast audio than average, and are an attractive demographic

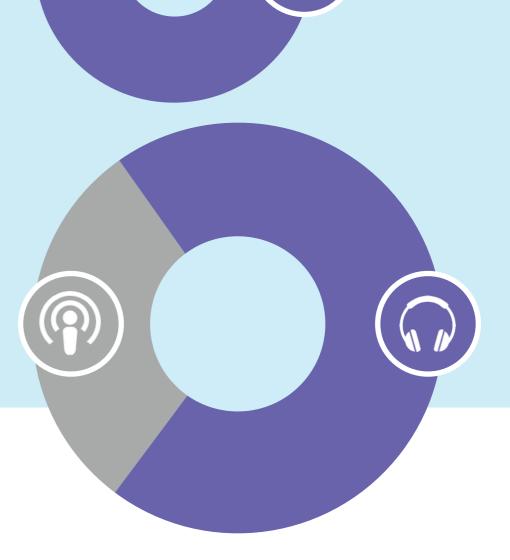
LISTENER DEMOGRAPHICS

	AVERAGE	PODCAST
Median Age	37	30
Age 18-34	0.3	0.67
Income Over \$50K	0.27	0.62
Bachelor's Degree?	0.3	0.58

AVERAGE
LISTENERS
4:05 hours/day

PODCAST LISTENERS 5:50 hours/day (4:19 non-

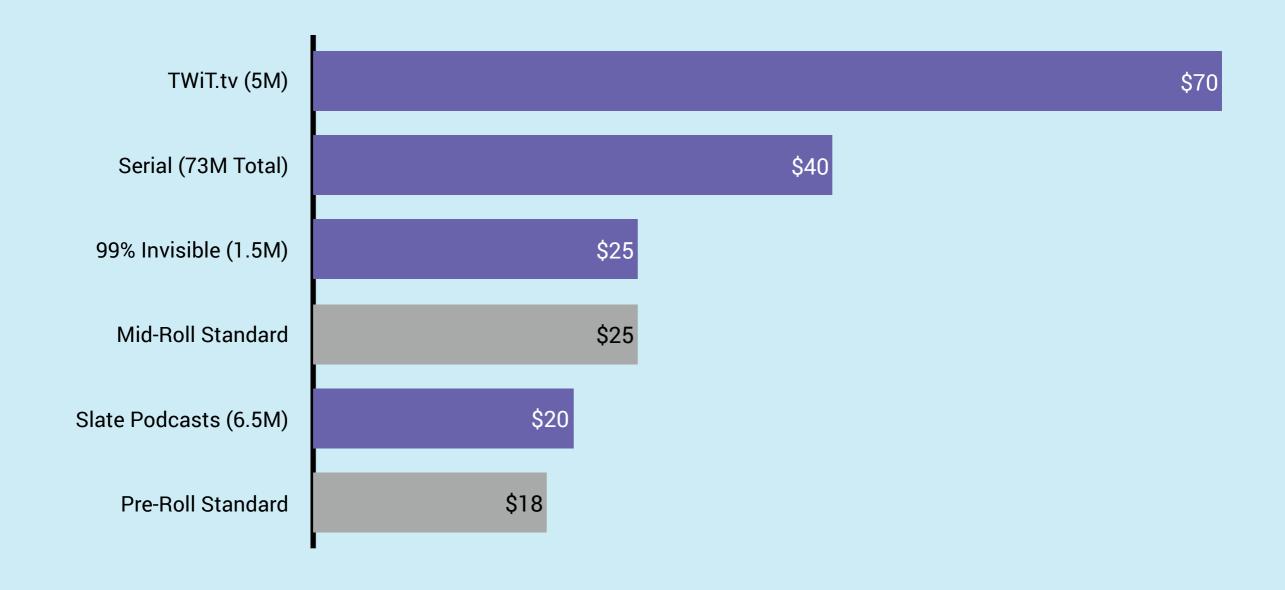
podcast)



Early successes are showing podcast publishers can generate premium advertising rates

Podcasting Monthly Downloads and CPM Rates

Publisher data
Industry average



There are enormous new opportunities in digital audio for adjacent, terrestrial and niche players

Digital listening minutes will increase



Players in adjacent markets (e.g. YouTube) will attempt to shift into pure audio



Podcasting becomes a web-scale, ad-supported industry; expect investment in podcasting advertising infrastructure and networks



High-engagement listening experiences may drive higher CPMs



Terrestrial players can tap growing digital audio ad dollars by migrating existing audiences to higher quality digital experiences



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THE LONG-AWAITED CORD CUTTING MOMENT IS STILL FAR OFF

THERE IS A "CABLE KILLER" COMING, BUT IT WON'T LOOK LIKE YOU EXPECT

E-SPORTS & WAGERING WILL CHANGE THE GAME IN GAMING

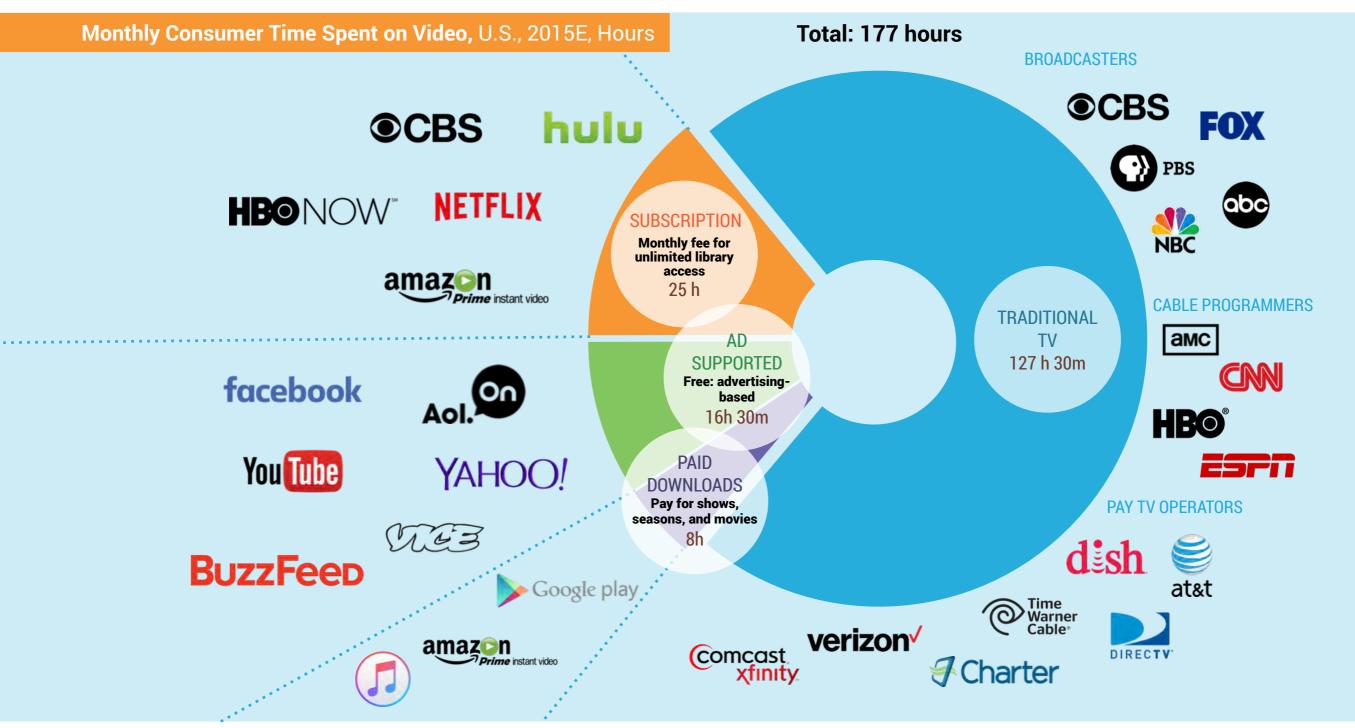
GOOD LUCK GETTING RICH IN THE APP STORE!

THESE COMPANIES ARE GRABBING ALL THE MONEY IN CONSUMER TECH & MEDIA

ONE SIMPLE WAY TO PREDICT WHAT TECH & MEDIA PLAYERS WILL DO NEXT TO COMPETE

57

An increasingly large number of players are competing for consumers' video time and attention, with traditional TV still capturing 72% of all viewing

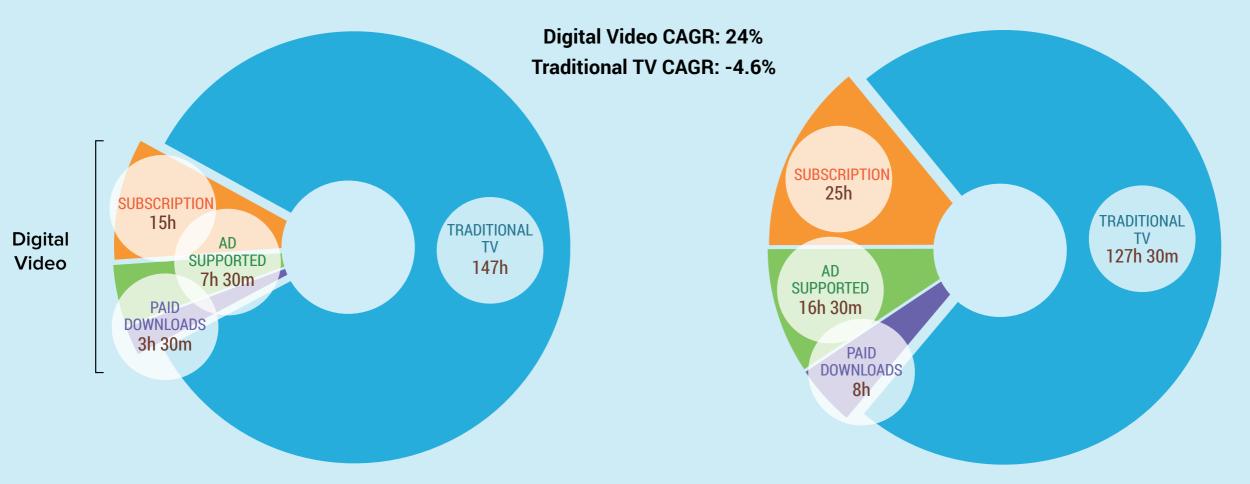


What's at stake in video? Nearly six hours a day of viewing time, making video the single most popular media activity

Monthly Consumer Time Spent on Video Among 2+ Users, U.S., 2012-2015E, Hours

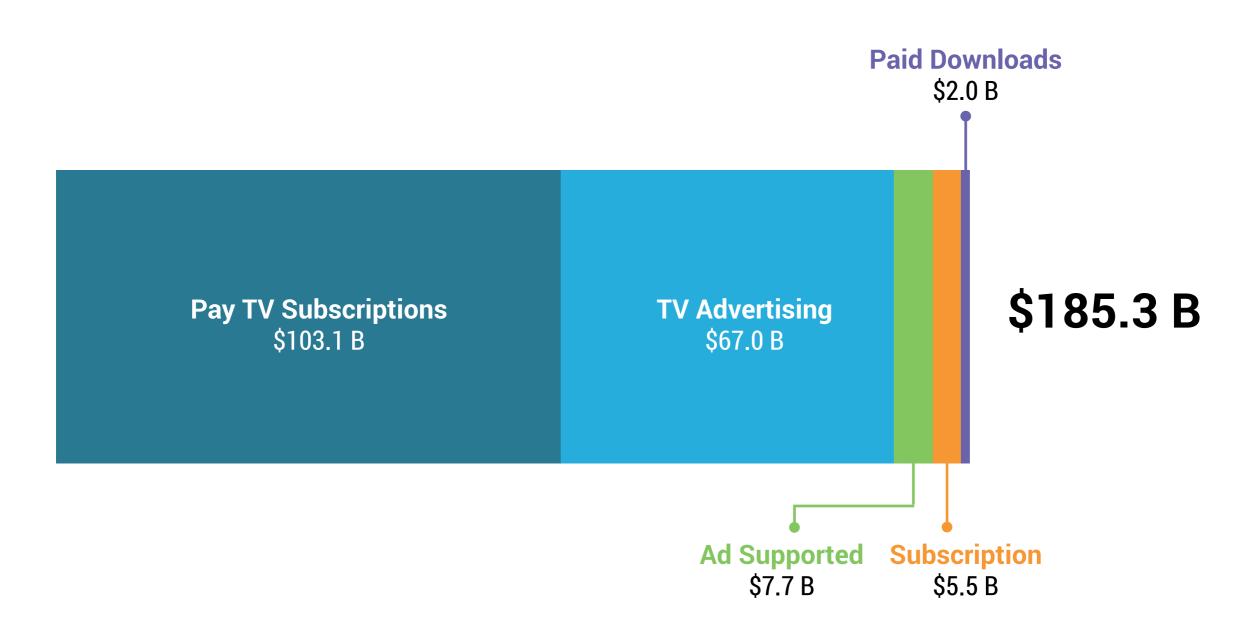
2012 2015E

Monthly Total: 173 hours Monthly Total: 177 hours



U.S. video revenues are enormous—\$185 Billion, and the largest share is still pay TV subscriptions

Revenues, U.S., 2015E, USD billions



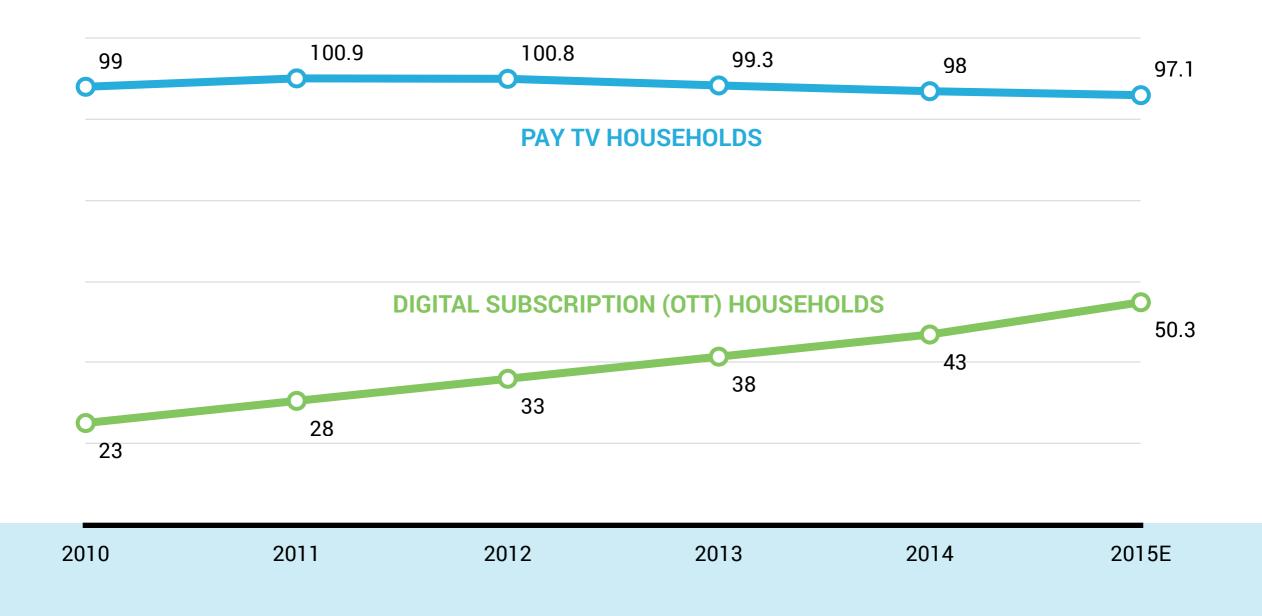


SO, IS IT TRUE THAT "THE FUTURE OF TV IS APPS"?

YES, BUT THAT PHRASE DOESN'T MEAN EVERYBODY WILL CUT THE CORD. IT MEANS THAT APPS WILL DEFINE THE EXPERIENCE, BUT WON'T DECIDE WHO GETS PAID FOR TV AND VIDEO.

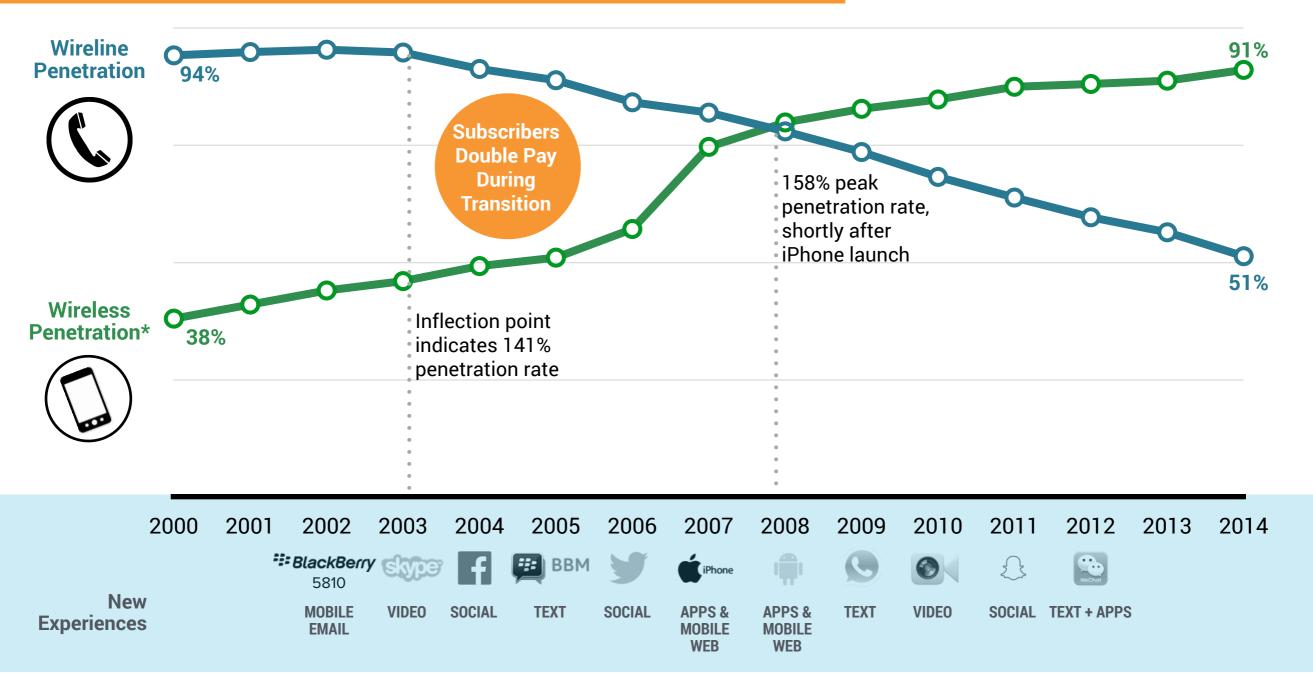
We appear to have hit "peak cable," with pay TV providers shedding subscribers while digital subscription (OTT) services gain ground

Households with Pay TV vs. Subscription OTT, U.S., 2010-2015E, Millions



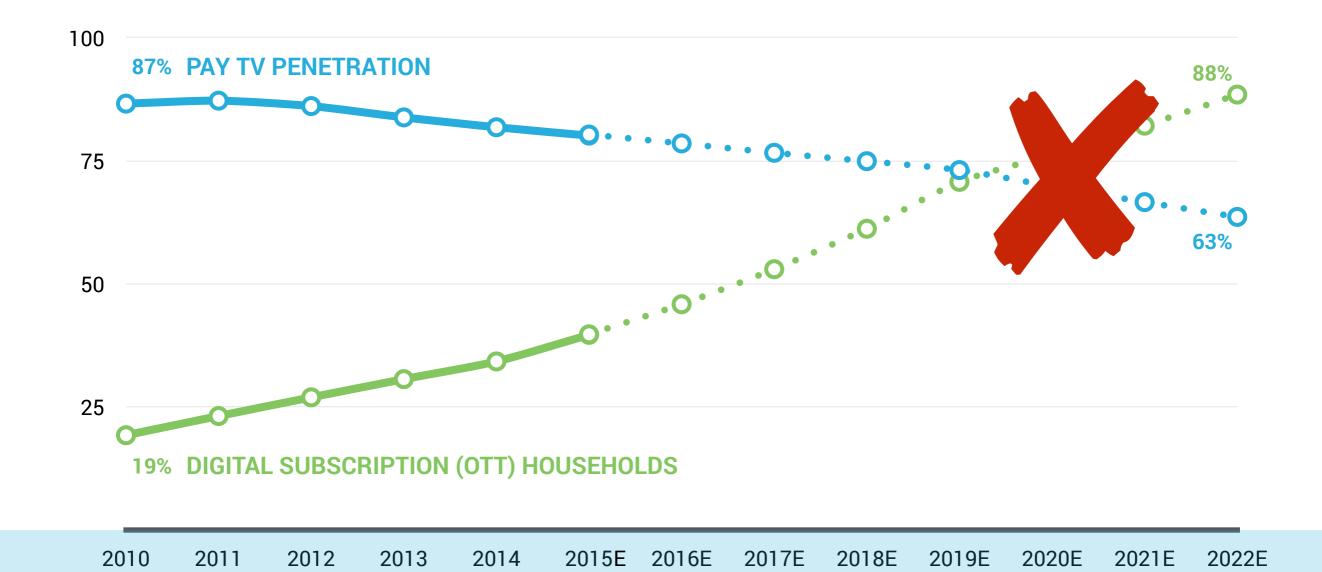
A major platform transition, such as cutting the cord for telephones, can take more than a decade to play out

Wireline vs. Wireless Household Penetration, U.S., 2000-2014, % of Households



If television cable cutting followed the same pattern as telephones, the crossover would happen in 2019—but this isn't likely

Extrapolated Pay TV and Subscription OTT Household Penetration Rates, U.S., 2010-2022E, % of Households





THE PAY TV TRANSITION IS DIFFERENT

CHANGES IN THE TV MARKET ARE NOT JUST A SIMPLE TECHNOLOGY TRANSITION. CORD CUTTING WON'T HAPPEN OVERNIGHT.

Four reasons why cord cutting on TV won't look like a typical tech transition



USERS:

People are still hooked on traditional TV and are consuming more video overall (Pay TV + OTT)



CONTENT:

A significant amount of popular content is still exclusive to pay TV (e.g. sports)



PRICING:

People can't cobble together the content they want for a lower price than a pay TV package



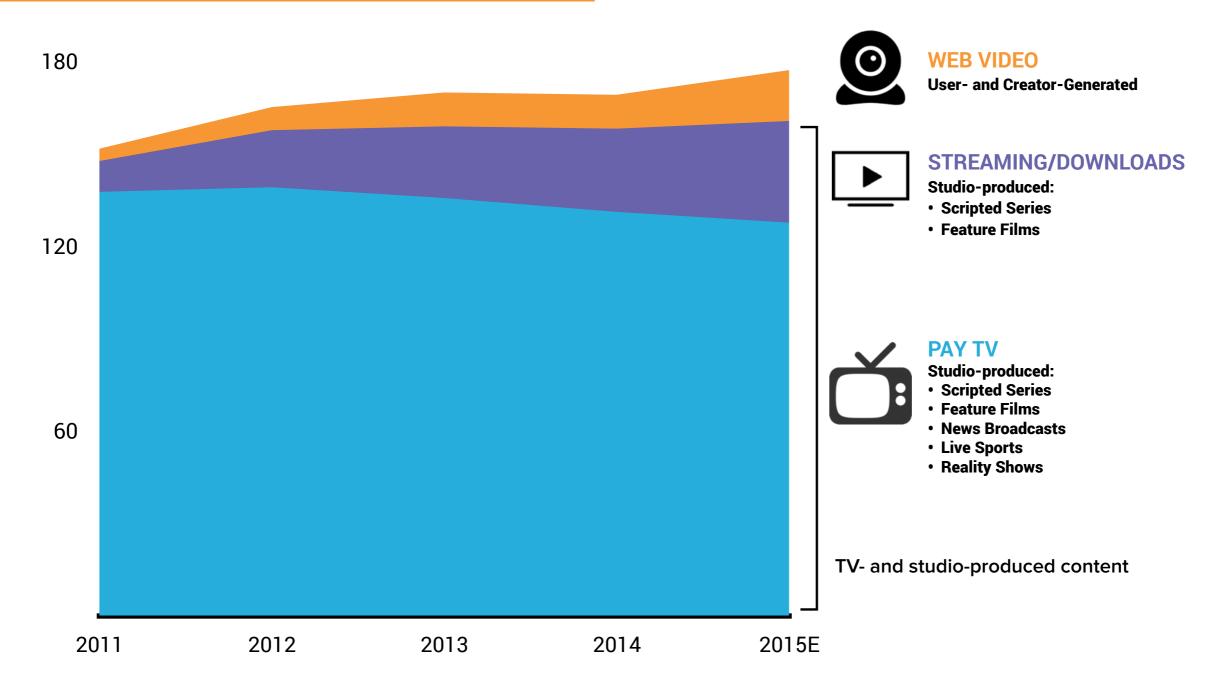
EXPERIENCE:

Today, traditional pay TV still wins for simplicity and reliability. Digital offers more power, control and discoverability, but also more complexity



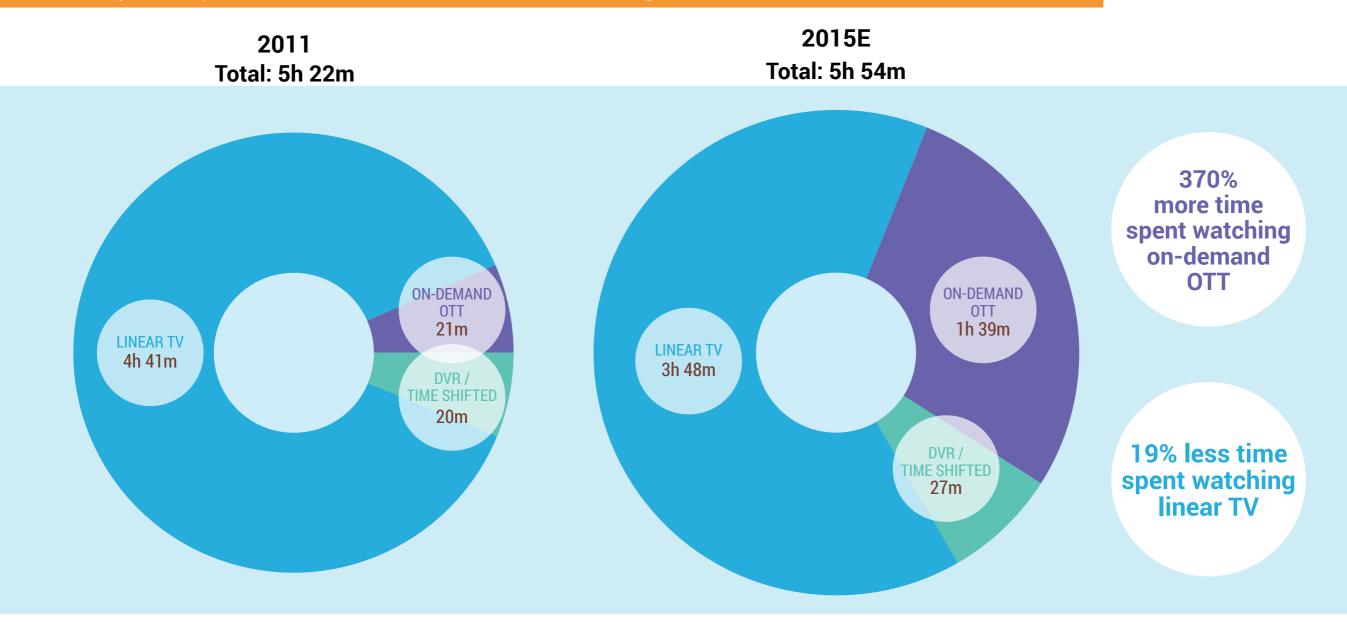
People are still spending most of their time with TV- and studioproduced content

Monthly Video Consumption, U.S., 2011-2015E, Hours



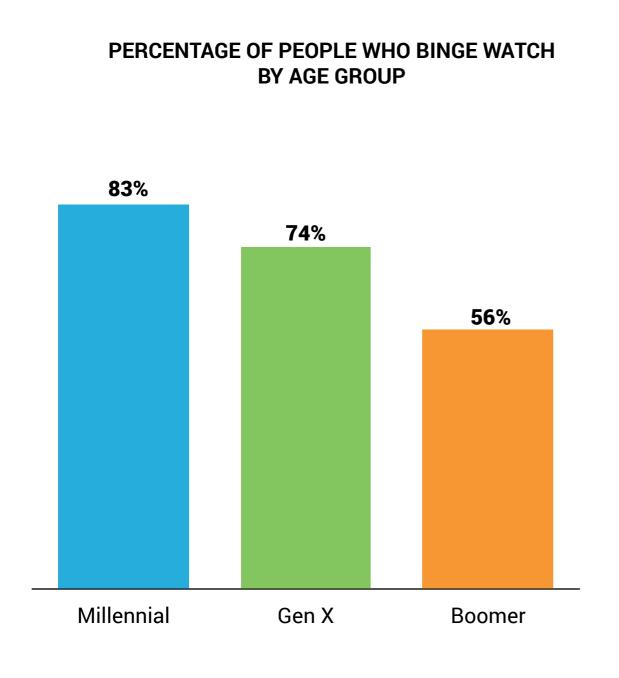
On-demand and time-shifted viewing is growing quickly, as viewers watch more and more TV on digital platforms

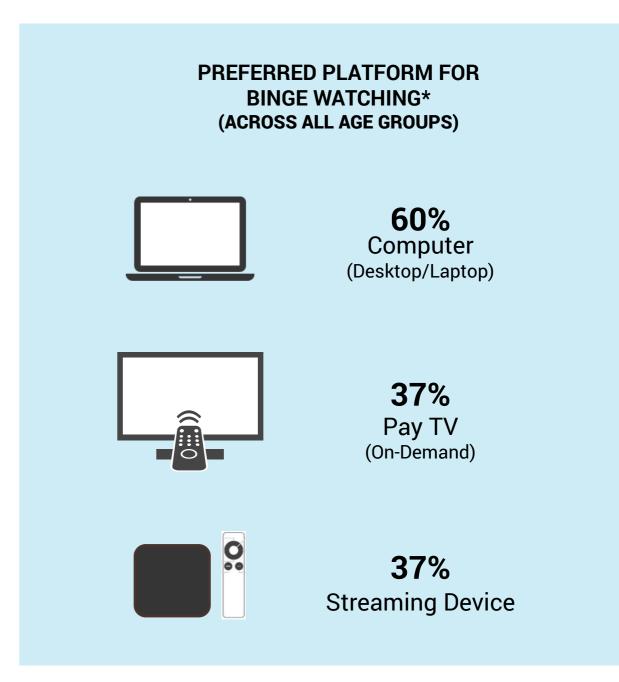
Daily Time Spent on Linear TV vs. Video On-Demand Among 2+ Users, U.S., 2011-2015E, Hours: Minutes





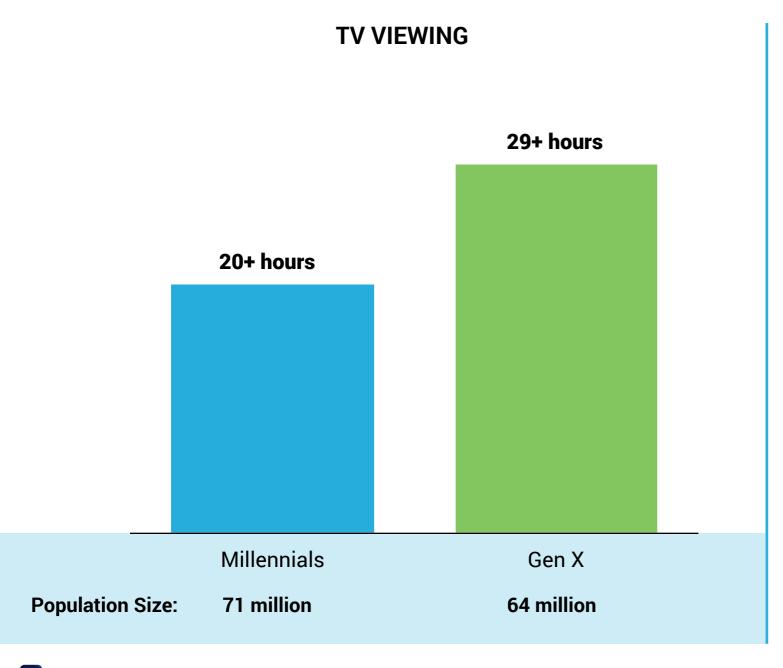
Most Americans now binge watch TV, and this behavior is amplifying time-shifted viewing





Millennials still watch more than 20 hours per week of television while consuming more video overall than any other group

Average Weekly Time, U.S., 2015E, Hours



ALL VIDEO VIEWING

Hours of video among Pay TV subscribers





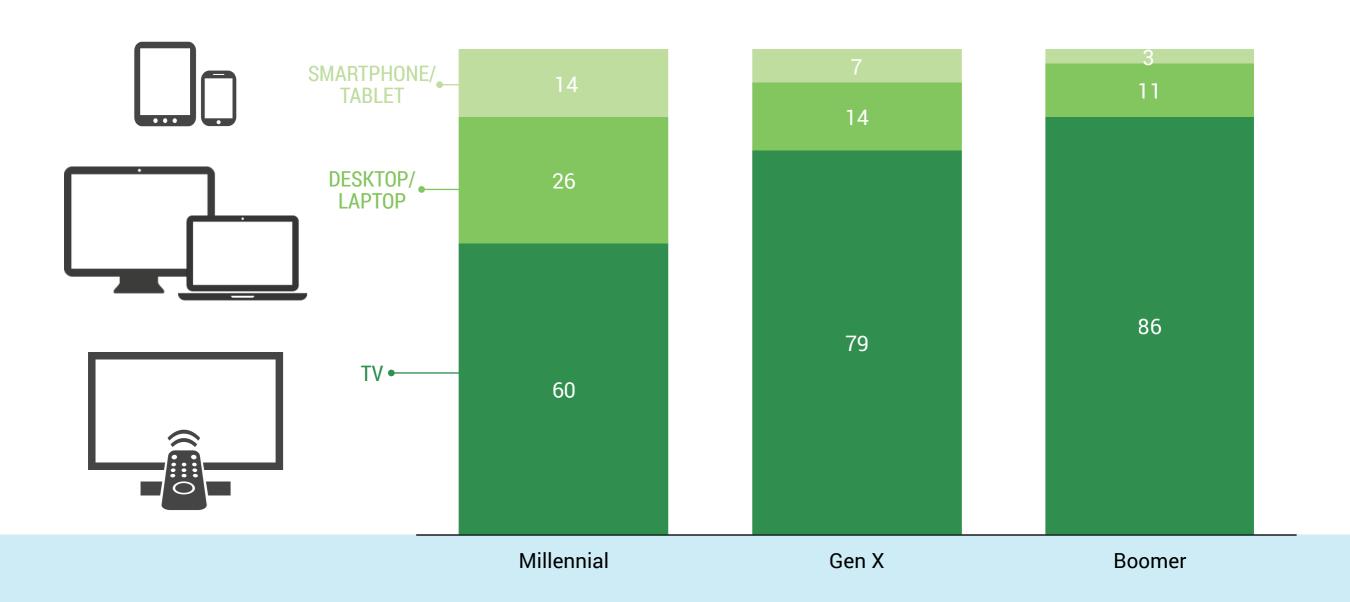
Hours of TV/video among cord cutters



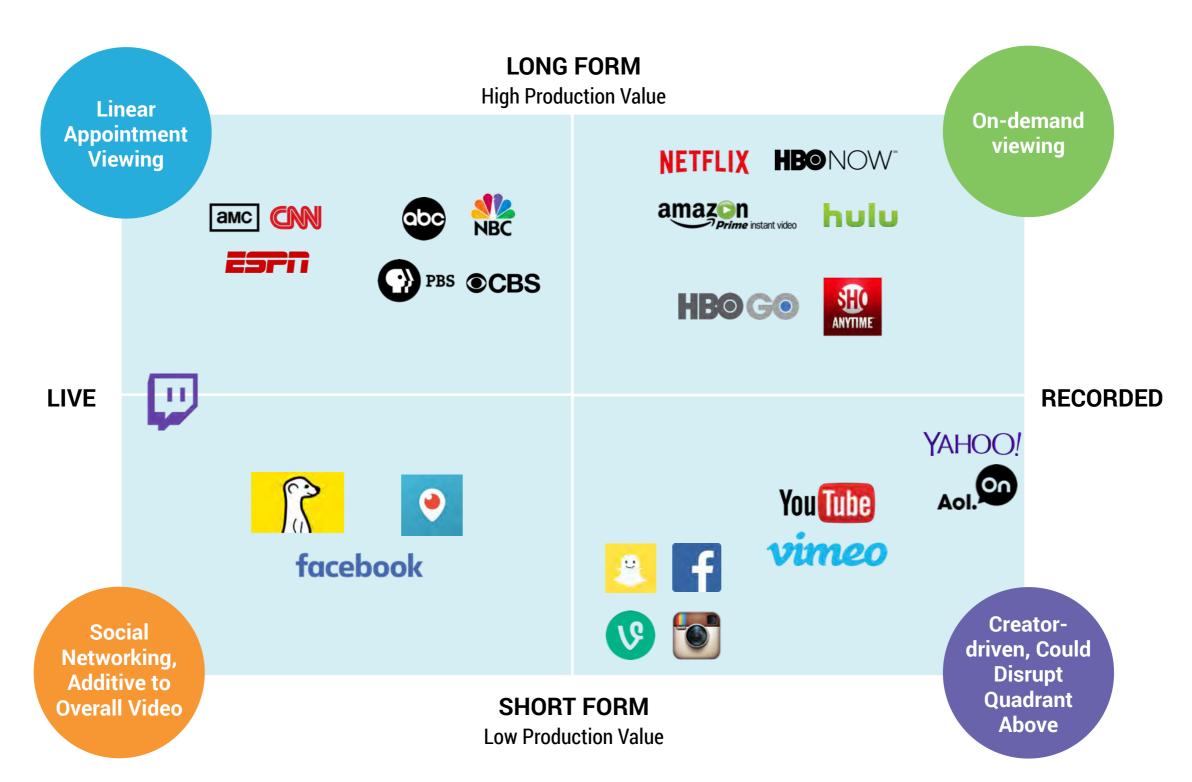


All adult age groups, including Millennials, like to watch high-quality video on large screens

Device Preferences for Watching TV Series, U.S., 2015E, Percent



Consumer behavior has moved beyond traditional appointment viewing and has created audiences for new kinds of content



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Source: Activate analysis 72

Pay TV still holds the reins on the ultimate appointment viewing: live sports, where synchronous viewership is the norm

PERCENTAGE OF LIVE GAMES*

- Fragmentation of rights among local and national networks makes it challenging to offer comprehensive sports packages at price points lower than Pay TV
- Sports networks are also subsidized by the bundle, which will limit in-market OTT offerings for the foreseeable future

	National Broadcast	National Pay	Local Pay**	Pay Channels Required	Live OTT?
NFL	0.95	0.05	-	4	Out of market
SNBA	3% + Finals	10% + Playoffs	0.87	5	Out of market
MAJOR LEAGUE BASEBALL	.05% + Finals	5% + Playoffs	0.94	5	Out of market
	Stanley Cup Only	7% + Playoffs	0.93	2	Out of market
NCAA	16% + Bowls	84% + Bowls/Playoff	_	2-7	N/A

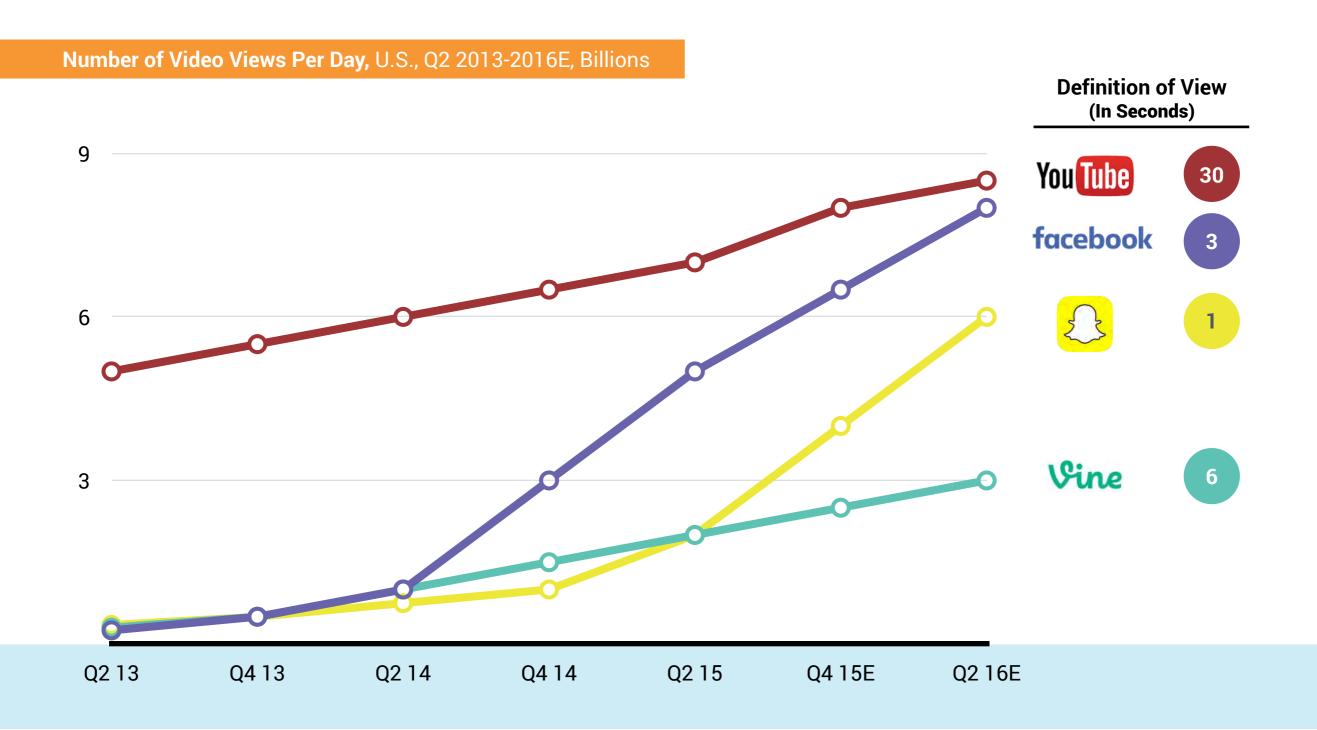


While some premium channels offer over the top subscriptions, much of the most popular cable programming is still exclusive to pay TV

		WIIME	Cable Programming		Sports
Current Season OTT Availability	HBO NOW [®]	100	Not Available		Not Available**
	GAME OF THRONES	HOMELAND	WALKING	AMERICAN PICKERS	SUNDRY NIGHT
	HARDS KNOCKS TRAINING CAMP WITH THE HOUSEN TEXANS	RAY Donovan	AMERICAN HORROR STORY	DUCK	HURSDA
	ballers	PENNY DREADFUL	GOLD-RUSH	PAWN	MONDAY NIGHT FOOTBALL
	SLICON	MASTERS OF	MR. ROBOT	Fargo	NCAA.
	VEEP	NURSE JACKIE	Kardashians.	LIBRARIANS	ECG HYN. CHAMPUNSHIP STRIKE



Web video distribution is booming, with some new entrants rivaling YouTube in video views, even though not all "views" are the same





Web video is driven by native creators producing short content that reaches a massive audience and grows overall video consumption

Vine

You Tube

Vine

You Tube

	Turbo	V 0100	V 010C	Tou Tubo		
			BUT THAT BACKFLIP			
	PewDiePie	Lele Pons	King Bach	KSI	Evan Tube HD	
GENRE	Gaming	Comedy	Comedy	Gaming	Reviews	
TOTAL VIEWS (BILLIONS)	10 B	7 B	3 B	2.4 B	1.6 B	
TOTAL FOLLOWERS (MILLIONS)	40 M	9.5 M	14 M	11 M	2 M	
MCN	MAKER.	FULLSCREEN	FULLSCREEN	POLARIS	MAKER _®	

You Tube

Digital media companies are investing in originals but haven't had a hit yet - they lag behind web creators and studio shows

Media Company

Content Distribution Strategies



Free, ad-supported video blending original content with 3rd party partners

- Available videos range from short news clips to full-length films
- Offering includes 12 originally produced TV series





On-demand streaming service for TV shows, movies, and webisodes

- · Screen has 26 channels, which includes original episodes of Community
- · Upcoming slate of original programming will bring total to 55 video series





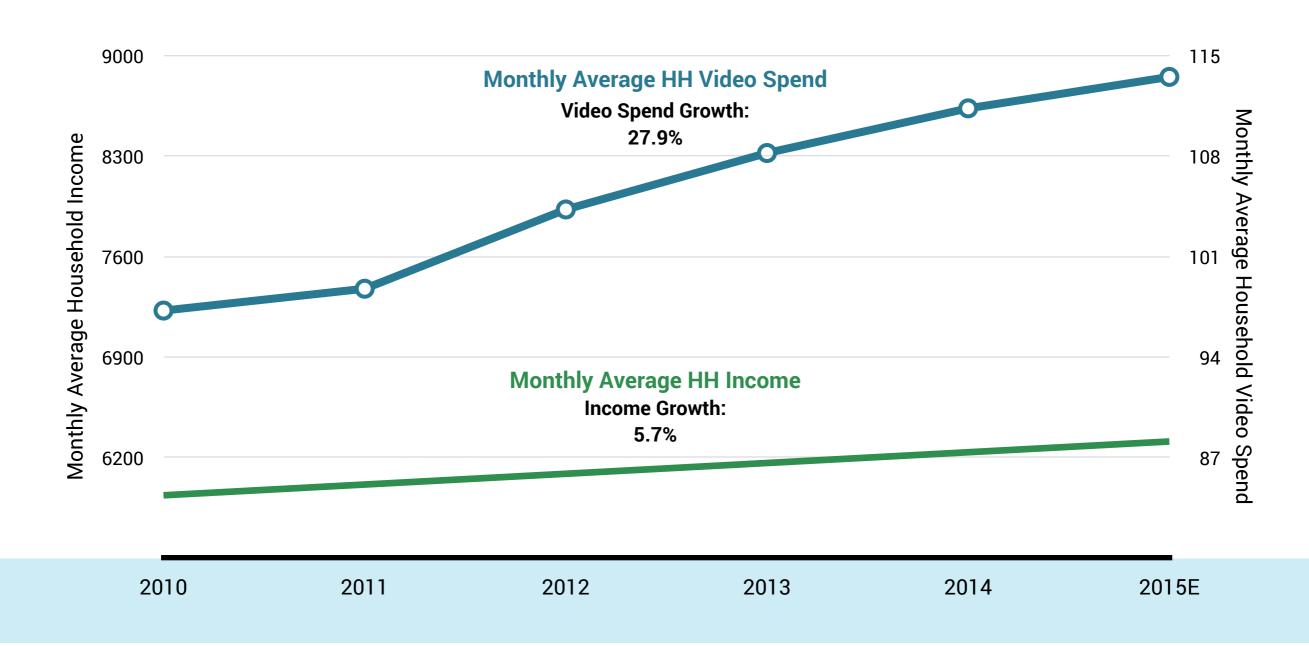
Widely distributed short-form original videos targeted at millennials

- · Library includes 10 original series and over 700 original short videos
- Distribution includes a YouTube Channel with 7.8M subscribers



Consumer spend on video is growing faster than income, which could put pressure on Pay TV pricing

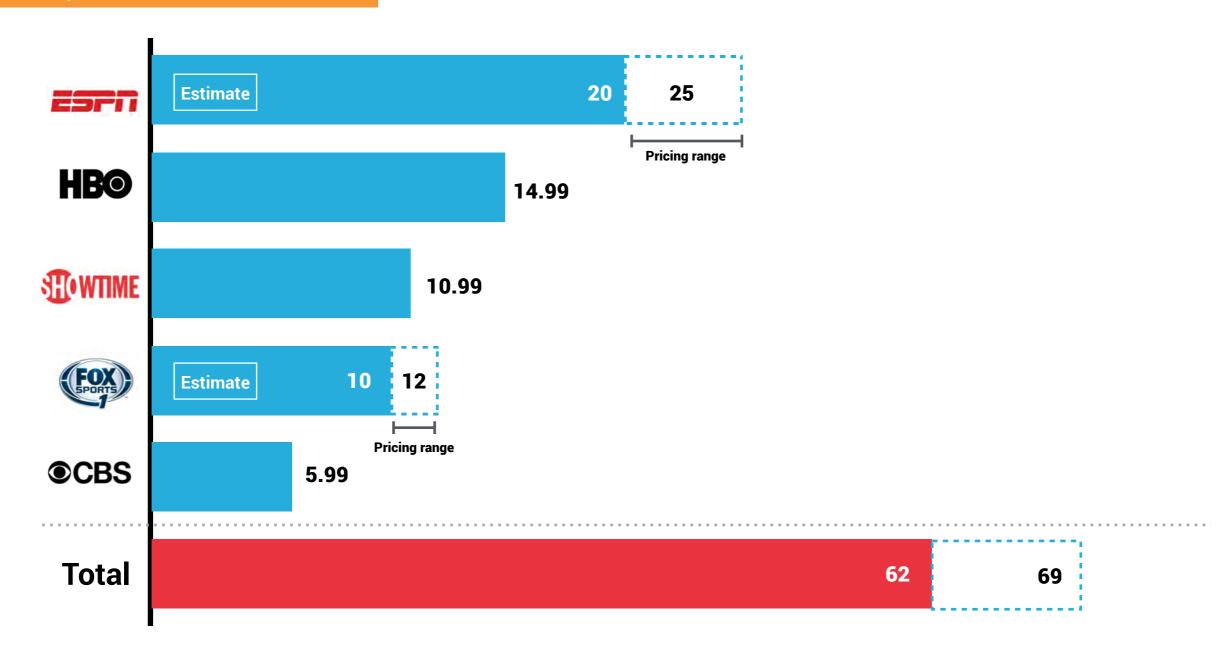
Average Video Spend vs. Income, U.S., 2012-2015E, USD





As more OTT services come online, the value of the bundle becomes more apparent

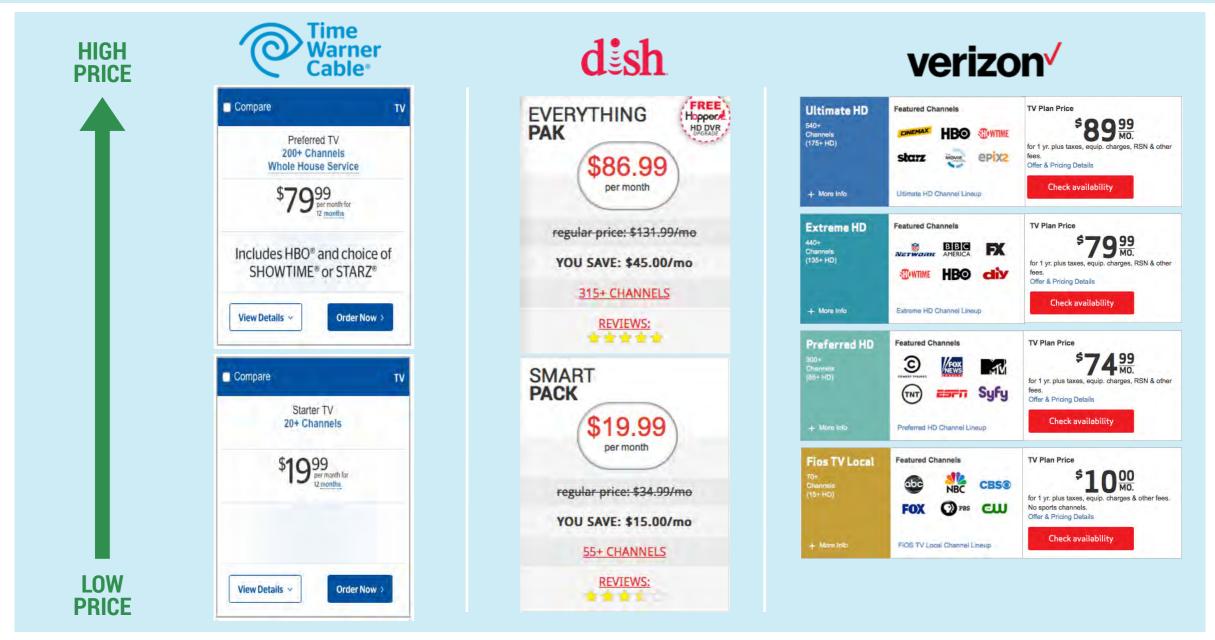
Monthly Prices of OTT Services, USD



Even if an OTT offering can be competitively priced, Pay TV operators have flexibility to vary pricing and packaging

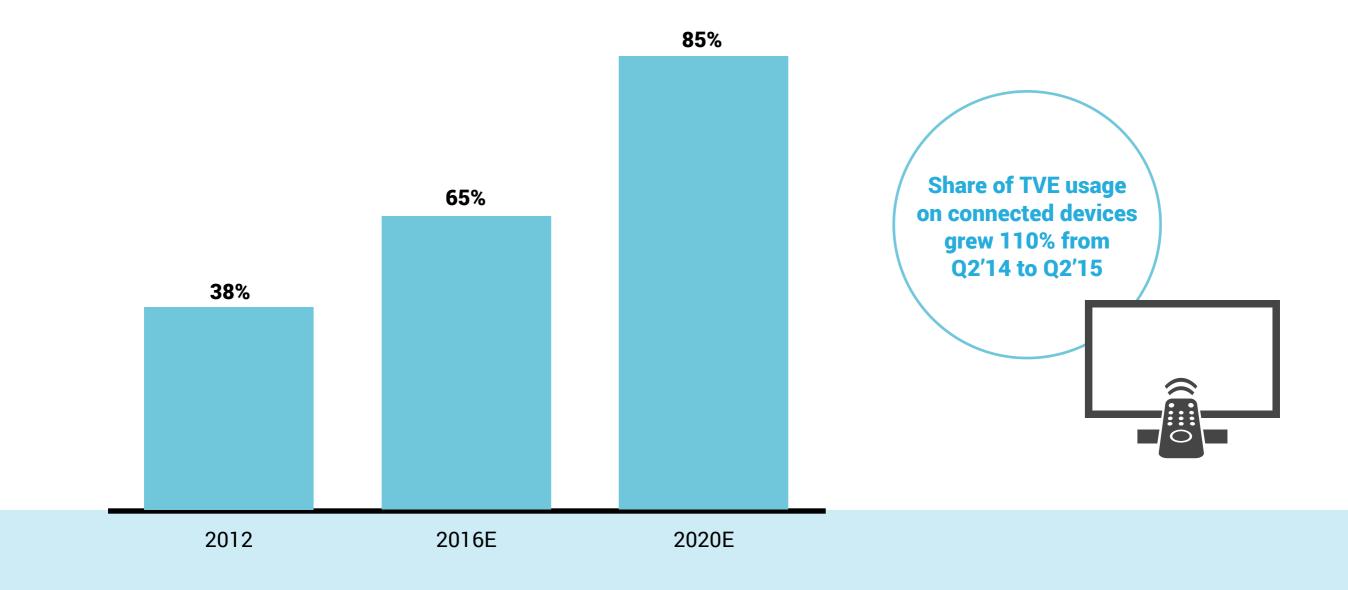
Video Pricing Examples from Select Providers, U.S., 2015E, USD

TRADITIONAL PAY TV



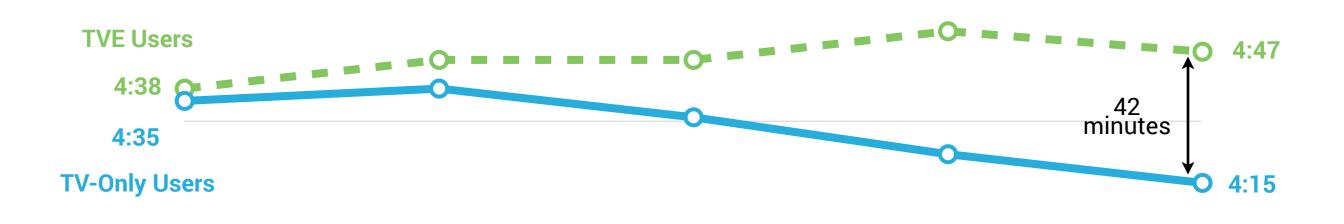
More streaming devices are enabling homes to view digital streaming as well as TV Everywhere on large screens

Internet-connected TV Penetration, U.S., 2012-2020E, % of Households



TV consumption holds steady, or even increases, in the 13% of households that use TV Everywhere, rather than seeing a decline

Daily Television Consumption Among TVE Users vs. TV-Only Users, Hours: Minutes



2011 2012 2013 2014 2015E



THIS IS PAY TV'S GAME TO LOSE

FOR A CONSUMER, BUILDING YOUR OWN CORD CUTTING BUNDLE IS EXPENSIVE AND INCOMPLETE. CABLE COMPANIES CAN MOUNT A STRONG DEFENSE. THEY'LL HAVE TO KEEP INNOVATING AND STAY NIMBLE, BUT THEY CAN SLOW DOWN THE THREAT OF CORD CUTTING.

What will it take for Pay TV to stay competitive against challengers?



An intuitive and user-friendly experience across platforms



Integrated search capabilities across video providers, regardless of source



Smarter discovery capability, modernizing the set top experience



A deep content library



Enhanced tools for time-shifted and offline viewing



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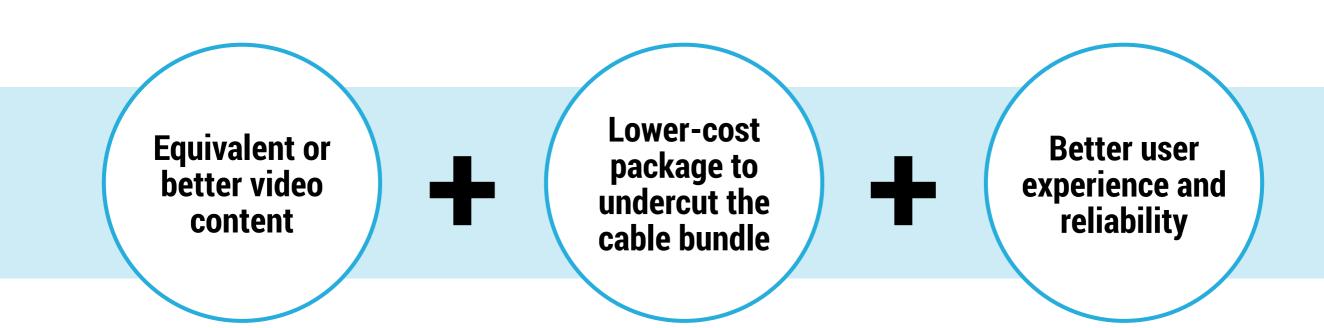
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85

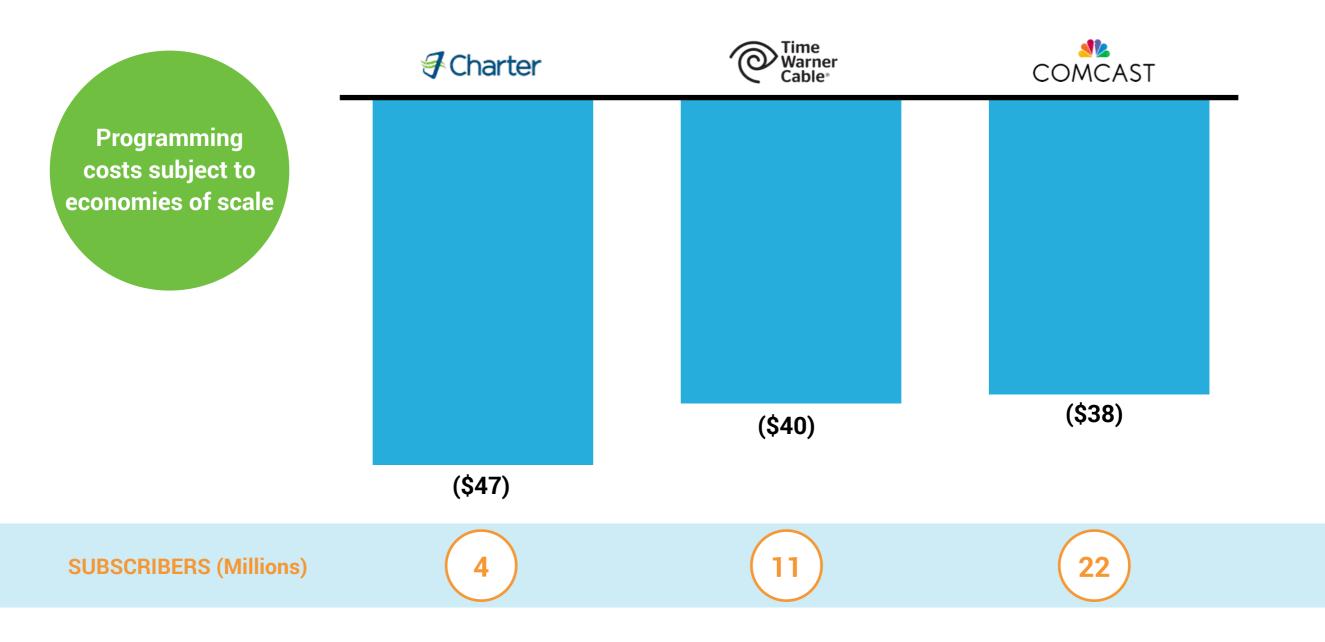
Cable Killer



FOR A NEW PLAYER TO CREATE A POTENTIAL 'CABLE KILLER', THEY WOULD HAVE TO START BY LICENSING TOP-TIER CONTENT

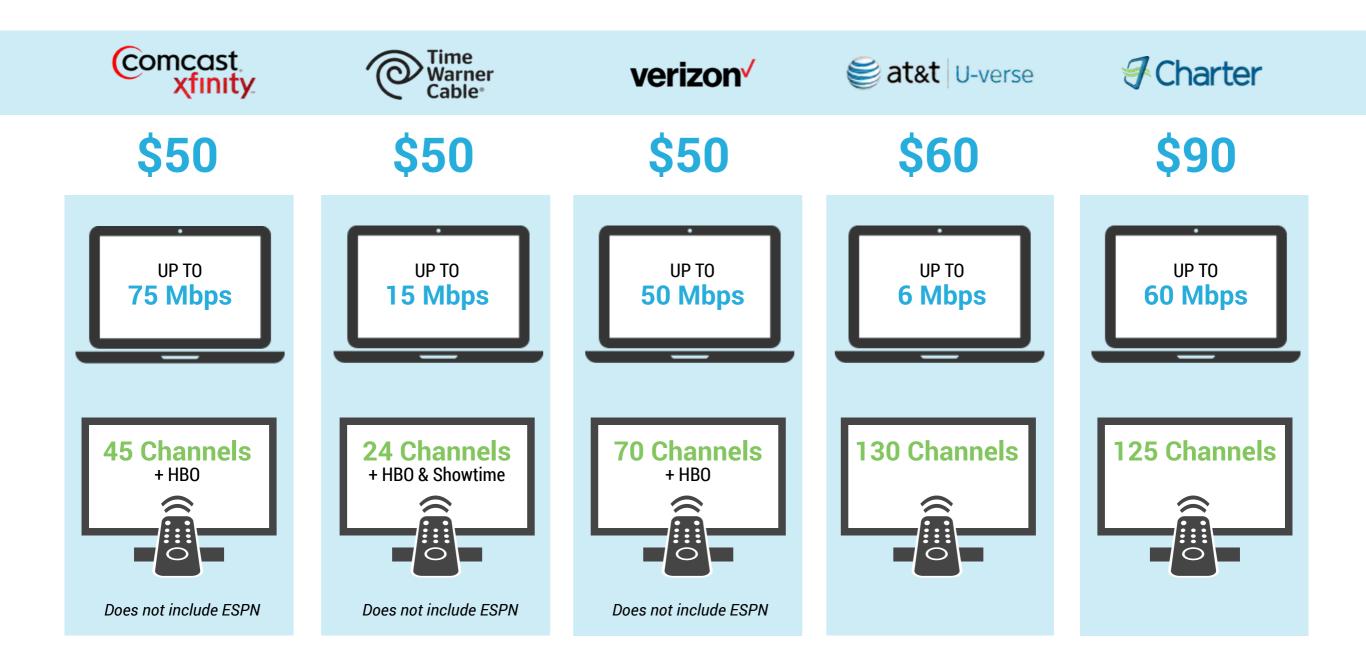
Today's cable operators have a huge advantage: the biggest players pay the lowest cost per subscriber for content; far lower than a new entrant could pay

Monthly Programming Costs per Subscriber for Cable Providers, U.S., 2014



A potential 'cable killer' cannot easily compete with cable's broadband bundling advantage

Pay TV + Broadband Bundles



A new entrant could create a better user interface, but would most likely need to *increase* the monthly cost for consumers – similar to the introduction of smart phones



Motorola RAZR (2007)



iPhone (2007)



DEVICE/VOICE/TEXT PER MONTH

UX Improvements

- Touchscreen capability
- App and multimedia integration
- · Improved device sensors
- Faster data connections



DEVICE/DATA/VOICE/TEXT PER MONTH

THE "CABLE KILLER" WON'T BE A LOW-PRICED COMPETITOR, IT WILL BE "SMART CABLE"

JUST AS SMARTPHONES FIRST DISRUPTED THE WIRELESS MARKET (AND INCREASED MONTHLY BILLS) BY CREATING A SUPERIOR HIGH END EXPERIENCE, SMART CABLE COULD TARGET THE MOST LUCRATIVE AND PROFITABLE CUSTOMERS.

What would a "cable killer" have to do to compete with a cable company's advantages?



Bundle for distribution. Players that have established a foothold with consumers by selling devices like smartphones or set-top boxes can offer content subscriptions on top



Bring your own broadband. Allow consumers to bring their own, or include with partner provider or new competitor



Better search and discovery. Search capabilities across video providers, regardless of source, uniting TV content and web videos



Seamless access. Integrated platform to access all types of video content - Digital Subscriptions, Web Video, TV Everywhere - across all devices



Simplicity and customer service. Easy choices with price transparency and customer-friendly policies to contrast with current cable frustrations



Premium pricing (that's worth it). Target the high end of the market, preserving margins while paying for higher content licensing costs - and integrating all other subscriptions for one monthly bill



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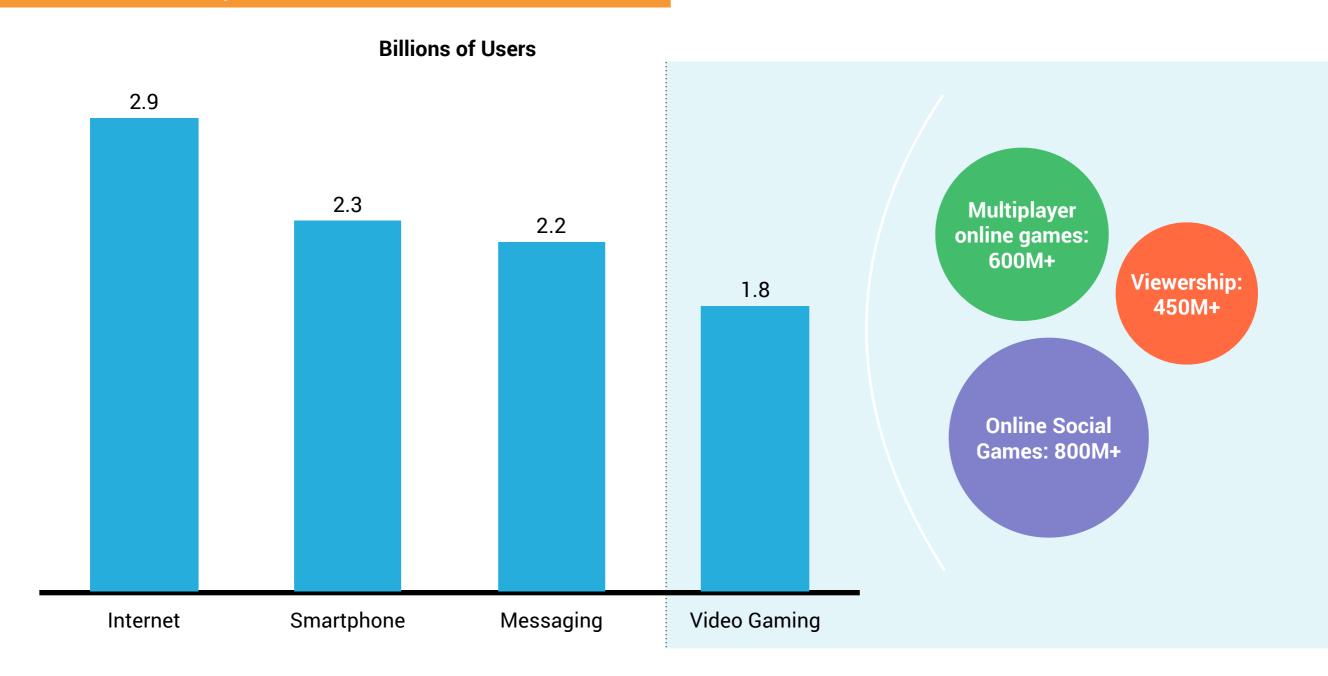
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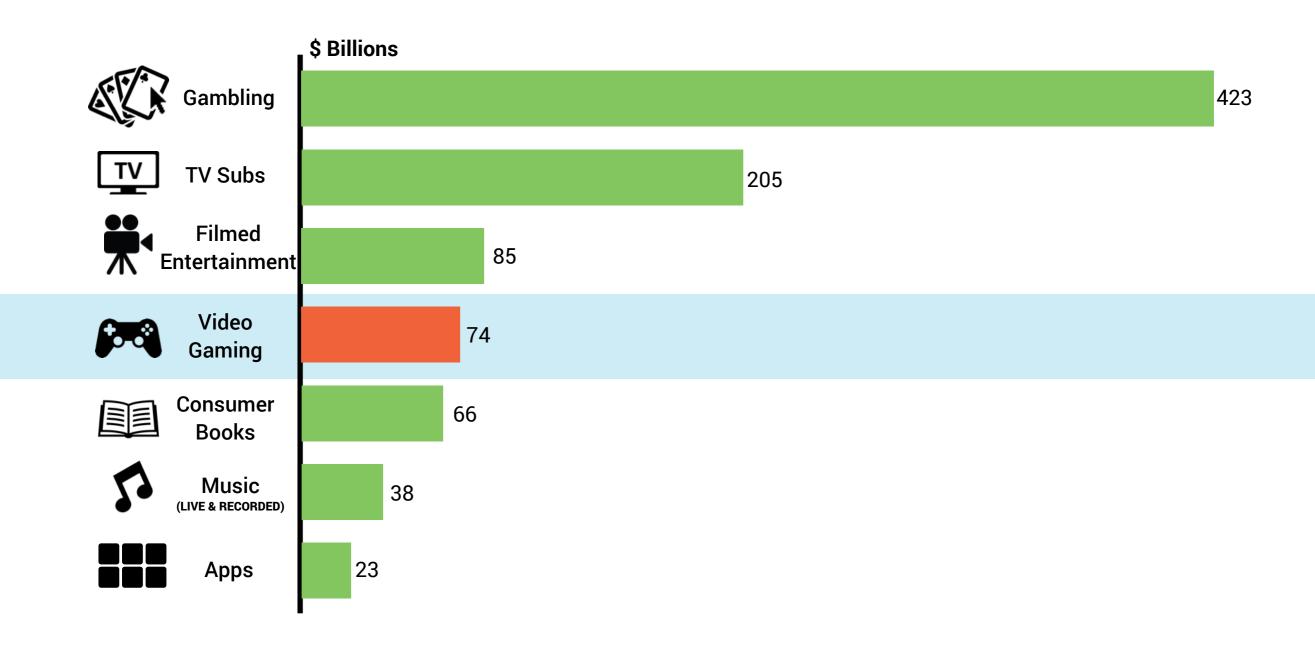
Video gaming is one of the most widespread consumer behaviors with ~2 Billion highly networked and connected users worldwide – and growing

Number of Users by Tech Platform, Global, 2014



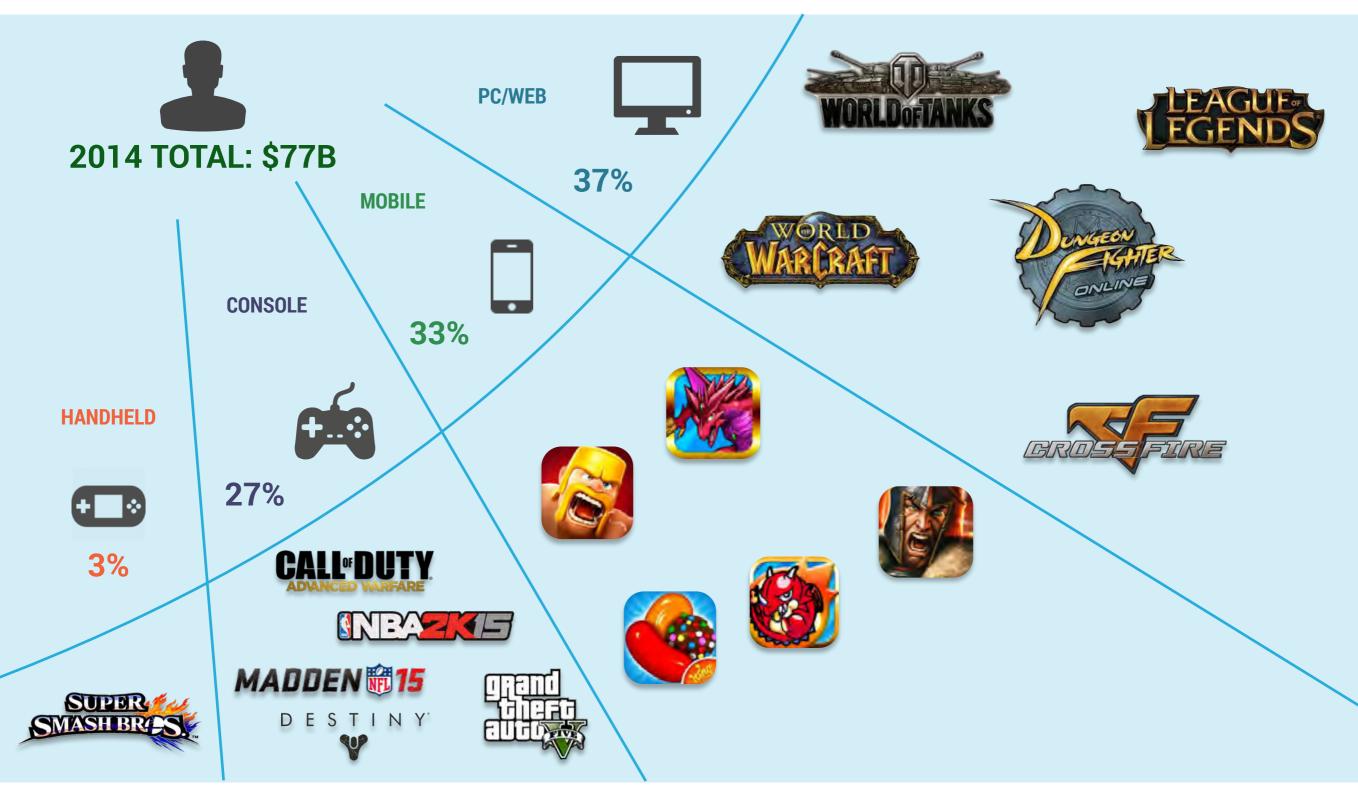
Global spend of \$74 Billion is likely to expand as video gaming broadens to include advertising and gambling streams

Consumer Spend on Major Entertainment Segments, Global, 2014





PC/Web is the leading video gaming platform by revenues, with mobile as a close second



The top games across PC/Web, Console and Handheld are increasingly multiplayer – mobile is the exception

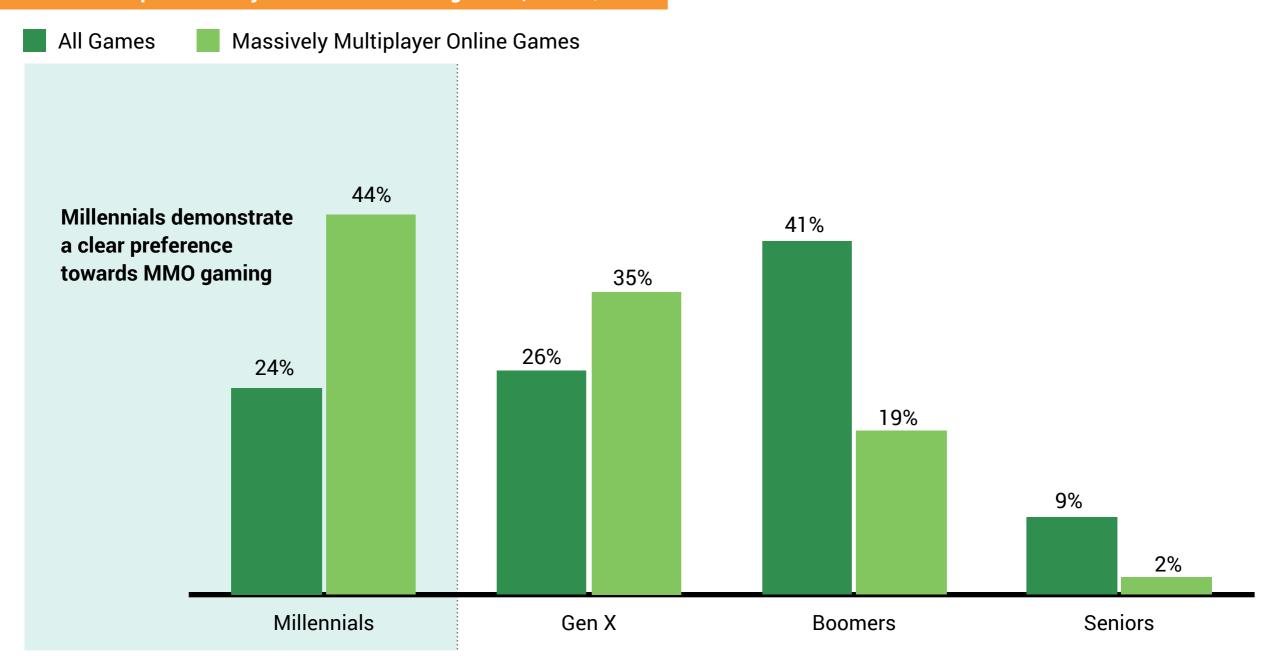
Most Popular Games by Platform

Online Multiplayer

PC	:/Web	Mobile	Console	Handheld
LEA	GUE ENDS	CLASHO	CALL [®] DUTY. ADVANCED WARFARE	SUPER SMASH BROS
WORLD	OFTANKS	Caldisa	FIFA 15	CERCLO ONESARUBY OLFRIGE
S D	OTA 2	PUZZLE © DRAGONS	DESTINY	MARIOKARI

The growth of multiplayer gaming will be driven by Millennials

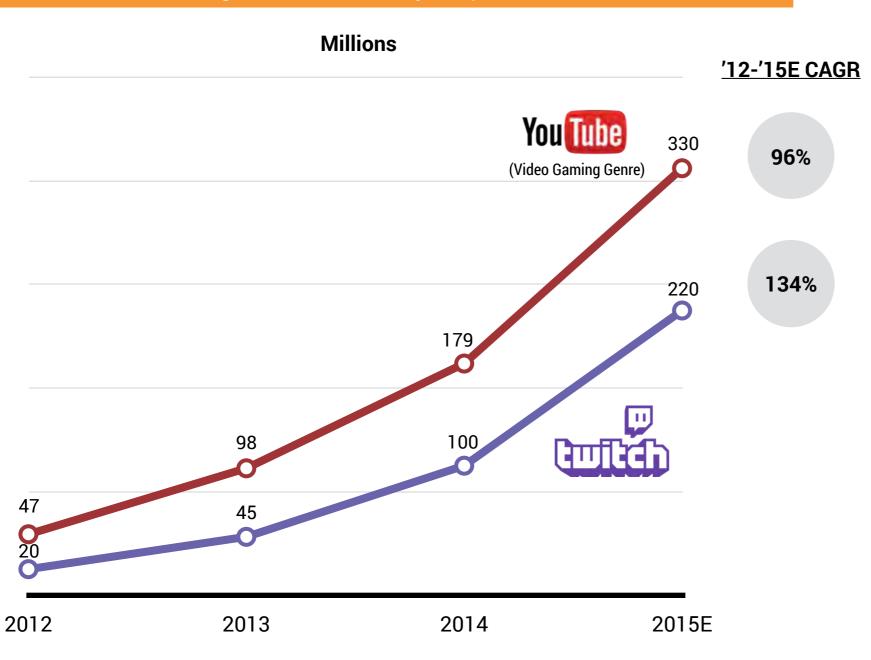
Consumer Spend on Major Entertainment Segments, Global, 2014





Video gaming has now broadened beyond individual players to include a wider spectator audience

YouTube Video Gaming and Twitch Monthly Unique Visitors, Global, 2012-2015E



Global viewership reached 450M+ in 2015

Gaming as video content includes:

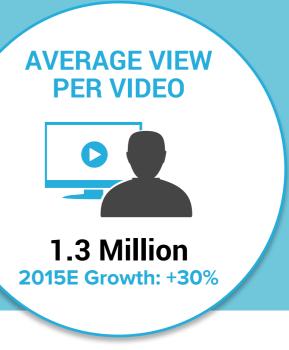
- Gameplay commentaries
- Professional gaming competitions
- Tutorials
- Video game trailers
- Walkthroughs

YouTube viewership for gaming channels demonstrates the massive consumer interest in video gaming

Metrics for the Top 15 You Willie Video Gaming Channels*



















PewDiePie

VanossGaming

elrubiusOMG

SkyDoesMinecraft

JuegaGerman



Organized multiplayer video game competitions are emerging as a formidable spectator sport: eSports

Examples of Major eSports Tournaments

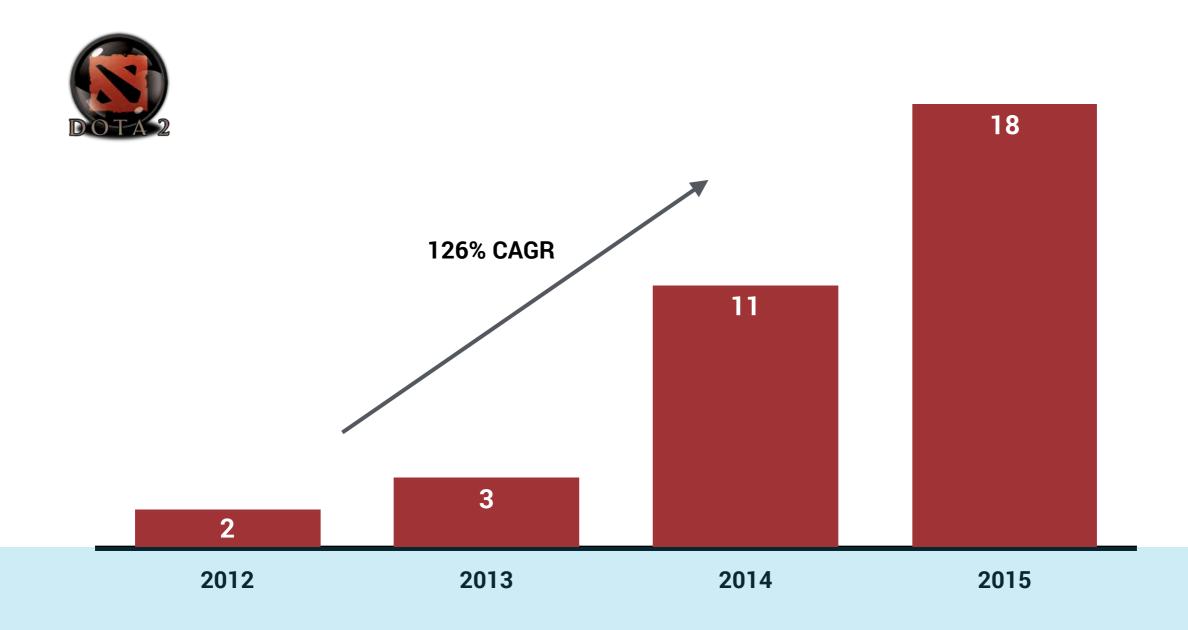


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activate www.activate.com Sources: Activate analysis

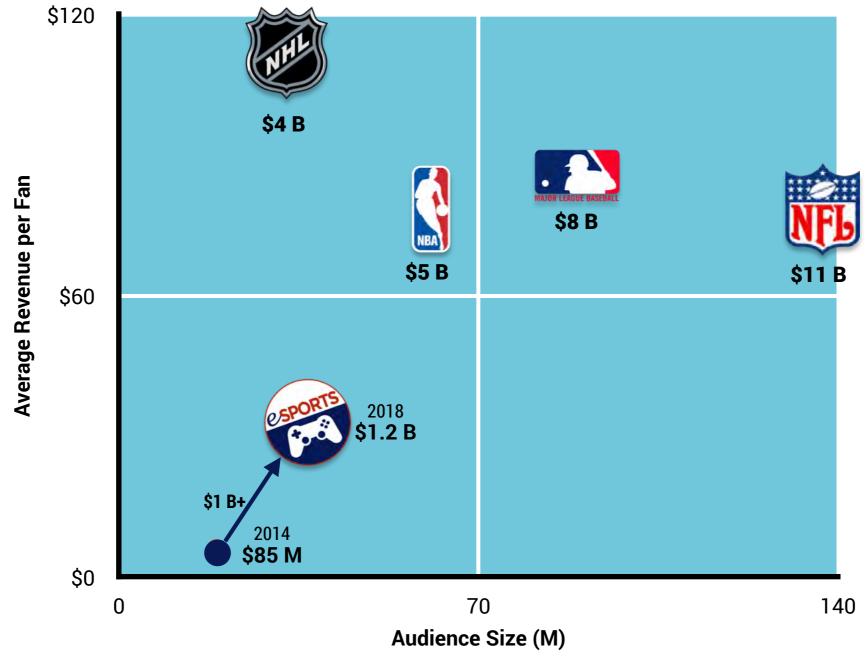
Growth in tournament prize pools - which are largely crowdfunded by fans - illustrates potential of eSports

Dota 2 Example: Growth in Tournament Prize Pool, \$M



If eSports organized as a league, our forecast indicates that it would become a \$1 Billion + business in the U.S. by 2018

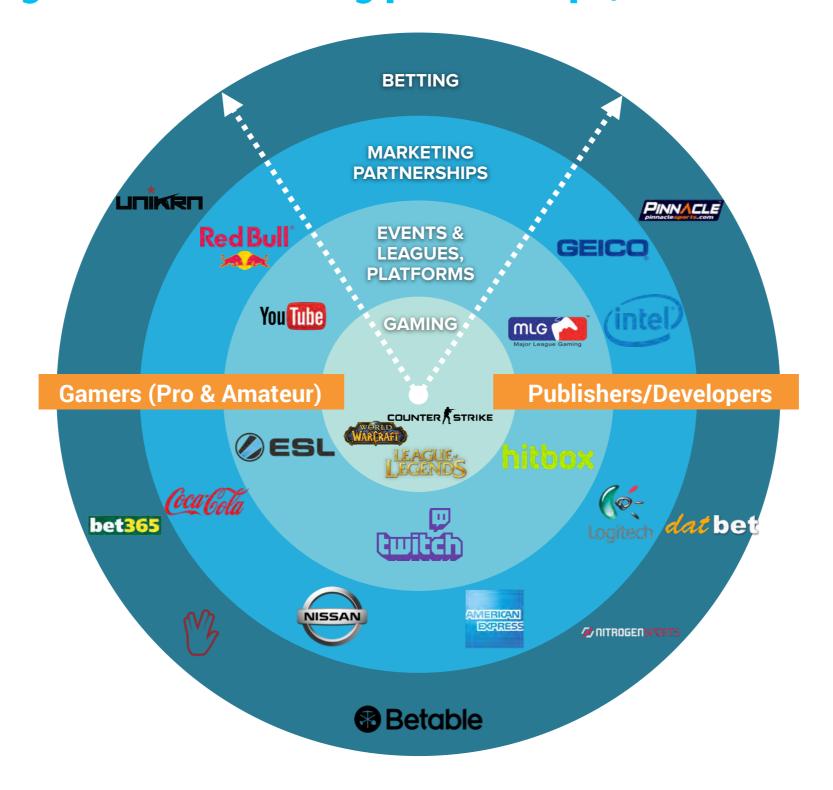
Activate Forecast for eSports, U.S., 2018E



eSports will be a \$4 Billion global business by 2018



As it grows, eSports will develop its own economy, extending from multiplayer games to marketing partnerships, and eventually betting



Real money wagering will become an integral part of the video gaming experience

WAGERING

Real-money betting layer into games and other digital entertainment experiences



New form of video game MONETIZATION (beyond ads, Freemium, Subscription)



SKILL-BASED - require players to make multiple decisions and use strategies (not games of chance)



SOCIAL - creates an environment of community and competition



First person and spectator mainly on online multiplayer games, eSPORTS EVENTS

Why? Millennials find skill-based wagering a compelling leisure activity - and are not interested in rudimentary gambling

		Ability to Deliver Low High		
Millennial Preferences	Description	Casino Gambling	Season Fantasy	Daily Fantasy
ACCESSIBLE	Easy access from any location and platform (e.g. PC, smartphone, tablet)			
EXPERIENTIAL	Interactive content consumption - cannot be consumed passively			
IMMEDIATE	Available any time, provides instant gratification			
PERSONALIZED	Content created or customized based on personal preferences			
SOCIAL	Peer-led, community-based participative experience			

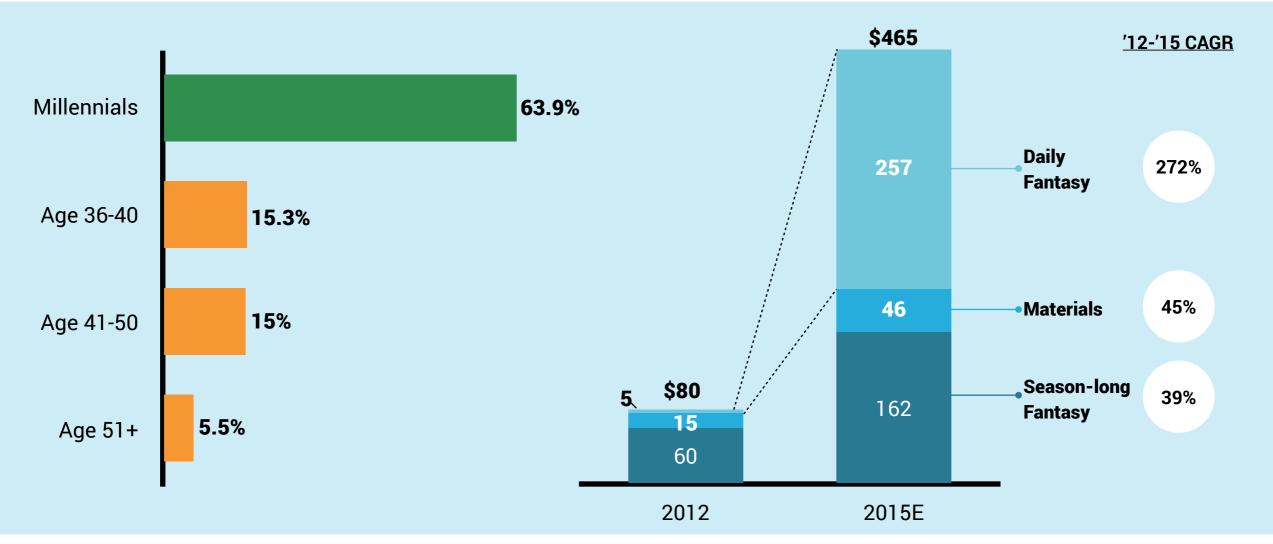
Low High

Ability to Deliver

Millennials' preference in skill-based wagering is demonstrated by their interest in daily fantasy sports



AVERAGE SPEND BREAKDOWN PER PLAYER*



Today, players pay to participate and fund prize pools for eSports tournaments, but can only win virtual goods/currency themselves



AQUIRE & CONTRIBUTE

PREDICT & EARN

BE REWARDED



Predictions are more fun when you've got some data to work with, so we're giving you the first three Qualifier regions to analyse before you make these predictions for Europe. You'll earn Compendium Points for every correct prediction you make.

IN A SINGLE GAME

MOST KILLS (ACROSS BOTH TEAMS)

4 pts

2

The Compendium is a one-time purchase for \$9.99:

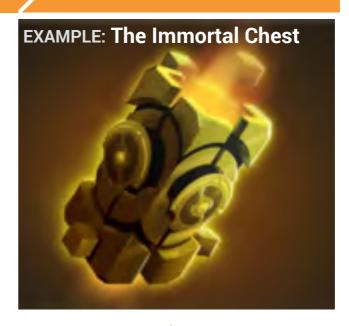
- 25% of purchase price gets added to the International Prize Pool
- In 2015, total contributions amounted over \$17M of the prize pool for Dota 2 eSports tournament

Purchase provides player stats and history, enabling purchasers to make predictions for Dota 2 tournament and qualifiers, e.g.:

- Player with most kills
- Largest critical hit
- Latest first blood

3

Correctly making predictions earns points



4

Points can be redeemed for rewards, but points remain virtual and rewards do not always pertain to player preferences

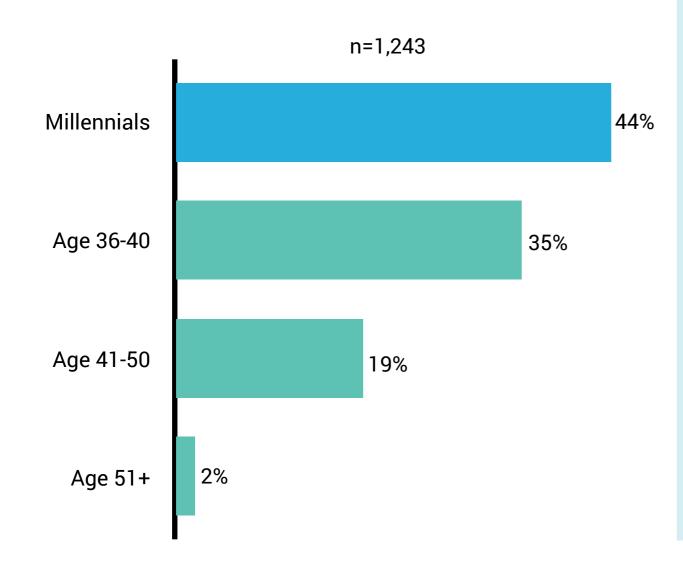
WAGERING ALTERNATIVE

Use real money for increased transparency and engagement

Allows players to pick and purchase items of preference

Millennials favor real money rewards for in-game competitions

Players of Massively Multiplayer Online Games by Age Segment







Early examples of real-money wagering are already taking place - but off platform

COUNTER STRIKE FIRST-PERSON EXAMPLE: HOW TO EARN REAL MONEY REWARDS USING FACET GAMING PLATFORM

REGISTER

PARTICIPATE

PLAY TO WIN

CLAIM REWARDS

- Enter game profile information
- Automatic verification of information
- Platform updates profile based on player statistics
- COLOT NO COL

- Join tournaments or ladder matches for free
- Join specific competitions based on skill level
- r · Platform automatically verifies results
 - Awards victory to winning player
- Winners collect FACEIT points
- Use points in FACEIT store to redeem prizes







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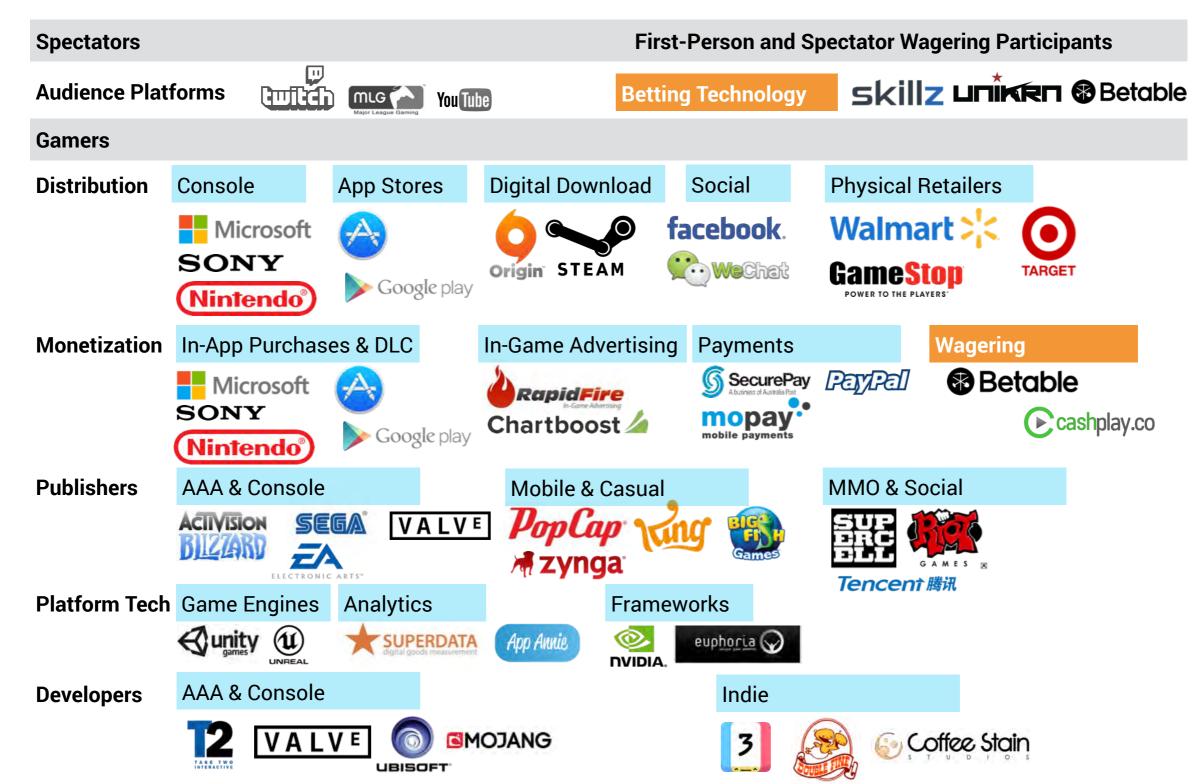
111

Top multiplayer online games with mass audiences will likely be the first to feature wagering

Examples of Popular MMO Games by Type

Massively Multiplayer Online Games Strategy Games Battle Arena First Person Shooter Role-Playing Game (MMOFPS) (MMORPG) (MOBA) COUNTER STRIKE TEAM FORTRESS 2 NOTA 2 LINEAGE

The \$80 Billion+ video gaming ecosystem will evolve to include tech that enables wagering as monetization of audiences



To capitalize on the growth potential, the industry will continue to integrate media, entertainment, and tech companies through...

...Mergers and Acquisitions Completed Examples (2015 YTD) TALENT



...Strategic Partnerships

Announced Examples (2015 YTD)



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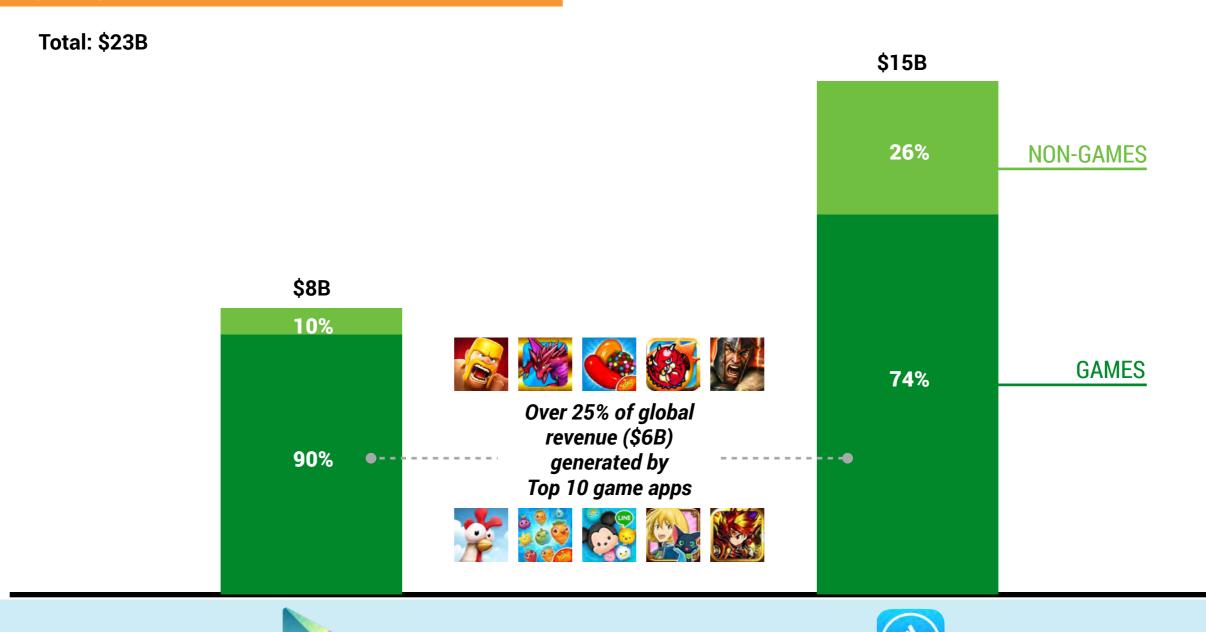
THESE COMPANIES ARE GRABBING ALL THE MONEY IN CONSUMER TECH & MEDIA
ONE SIMPLE WAY TO PREDICT WHAT TECH & MEDIA PLAYERS WILL DO NEXT TO COMPETE

115

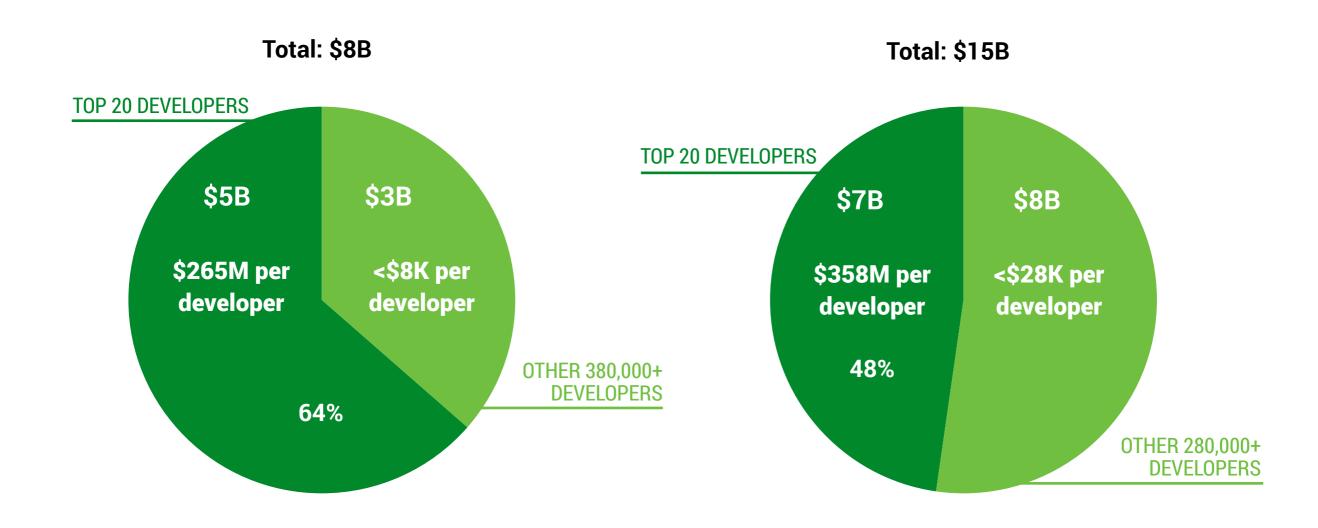
THE DREAM OF THE INDEPENDENT DEVELOPER BUILDING A BUSINESS IN THE APP STORE IS OVER

The top 10 games take 25% of the \$23 Billion in global app revenue

Google Play & iTunes App Store Revenues, Global, 2014



The number of developers on a platform doesn't matter if the top 20 publishers take most of the money



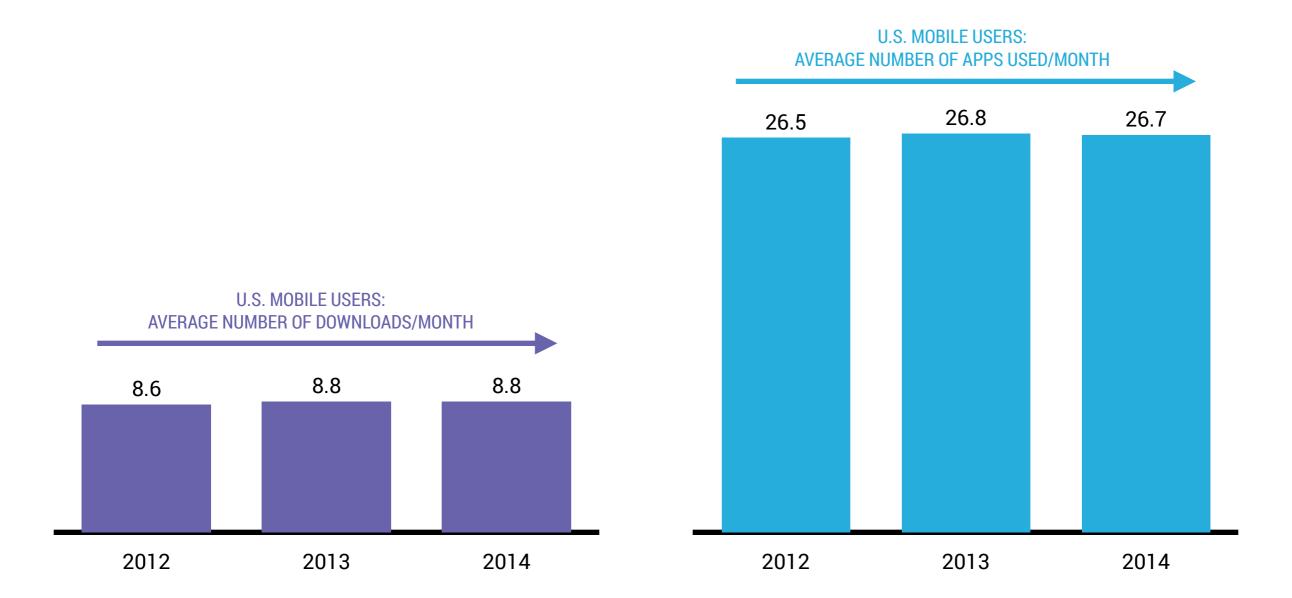




Despite massive number of available apps, users are downloading and using the same number of apps

Number of downloads remain unchanged...

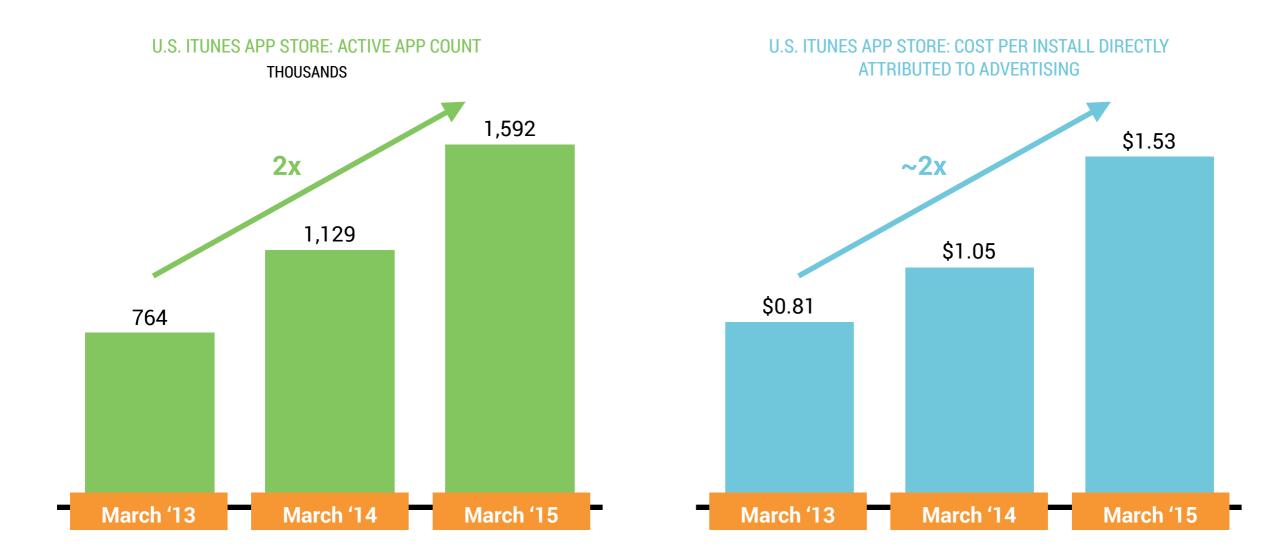
... as do the number of apps used



Discoverability continues to be a barrier to the long-tail as app count and cost per install increase concurrently

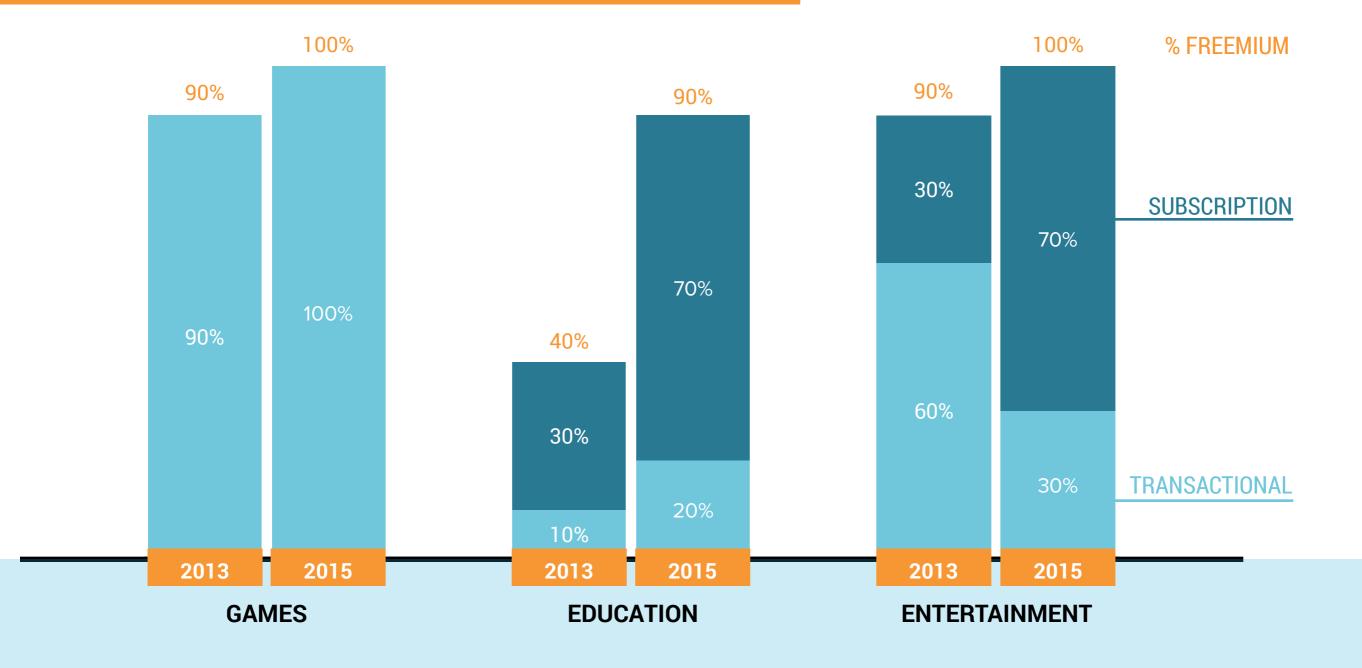
App count continues to grow exponentially...

...along with the cost to earn downloads



Freemium has become the prevalent business model for top grossing app categories, with subscription dominating except for games

Freemium Apps as % of Top 10 Grossing Apps at iTunes App Store, Global





The majority of top apps by unique visitors monetize outside of the app store

Top apps in iTunes App Store, U.S., June 2015

Rank	App Name	Unique Visitors (M)	Growth	Busine	ss Model
				Generates App	Store Revenue?
				YES	NO
1	Facebook	125.7	0.09		•
2	YouTube	98.9	0.18		•
3	Facebook Messenger	95.7	1.44		•
4	Google Search	81.1	0.16		•
5	Google Play Music	77.4	0.07	•	
6	Google Maps	76.5	0.19		•
7	Pandora Radio	74.2	0.08	•	
8	Gmail	67.9	0.13		•
9	Instagram	63.1	0.35		•
10	Apple Music*	49.7	0.22	•	
11	Apple Maps	49.3	0.17		•
12	Yahoo Stocks	46.4	0.1		•
13	Amazon Mobile	43.7	0.65		•
14	Twitter	41.3	0.19		•
15	Pinterest	40.8	0.66		•
16	The Weather Channel	35.8	0.17		•
17	Snapchat	34.1	0.29	•	
18	Google+	33.1	0.15		•
19	Netflix	32.8	0.18	•	
20	Weather Channel Widget	32	N/A		•

15 OF THE TOP 20 APPS

app store revenue

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122 Sources: comScore, Activate analysis

A new wave of companies are building businesses by using the app store for distribution and engagement, but not monetization











ate www.activate.com Sources: Activate analysis

THE AVERAGE AMERICAN SPENDS MORE TIME ON TECH & MEDIA THAN WORK OR SLEEP
MESSAGING WILL BLOW PAST SOCIAL NETWORKS AS THE DOMINANT MEDIA ACTIVITY
THE NEXT BIG WINNERS IN STREAMING AUDIO ARE ALREADY (QUIETLY) HERE
THE LONG-AWAITED CORD CUTTING MOMENT IS STILL FAR OFF
THERE IS A "CABLE KILLER" COMING, BUT IT WON'T LOOK LIKE YOU EXPECT
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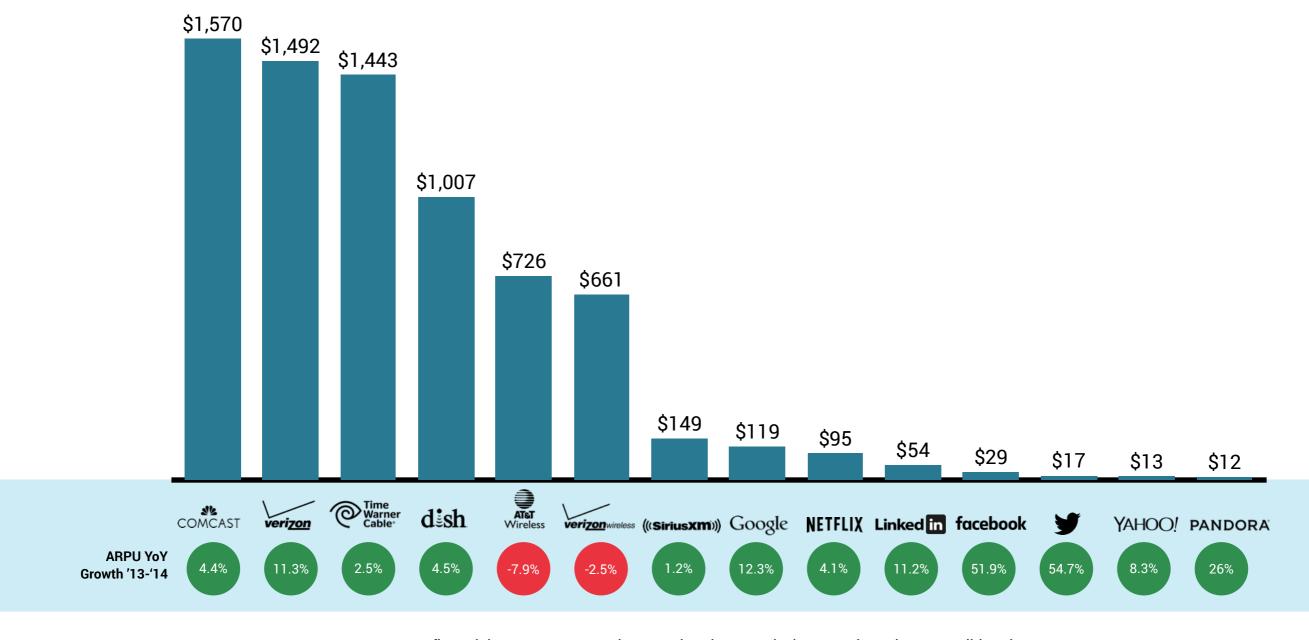
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Not surprisingly, the Pay TV providers continue to capture the highest average revenue per user in the U.S.

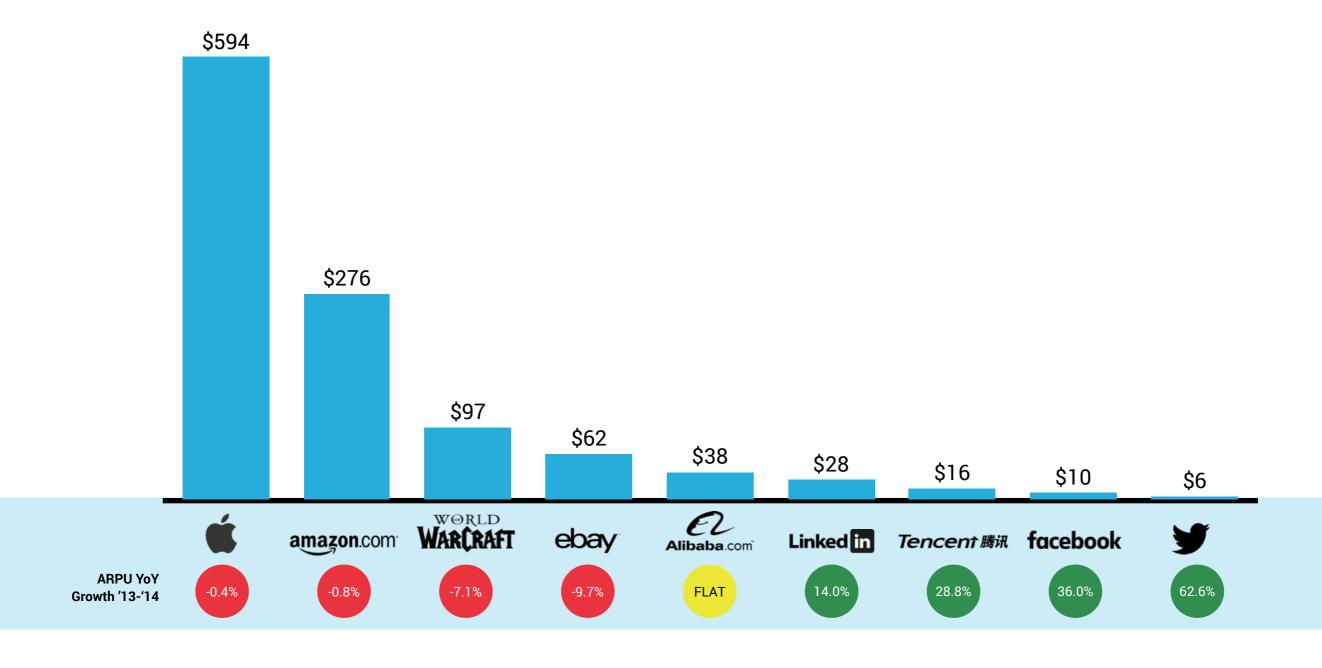
Annual ARPU: U.S., 2014





Globally, wide range of growth and average revenue per user across consumer tech and media companies

Annual ARPU: Global, 2014





THE AVERAGE AMERICAN SPENDS MORE TIME ON TECH & MEDIA THAN WORK OR SLEEP MESSAGING WILL BLOW PAST SOCIAL NETWORKS AS THE DOMINANT MEDIA ACTIVITY THE NEXT BIG WINNERS IN STREAMING AUDIO ARE ALREADY (QUIETLY) HERE THE LONG-AWAITED CORD CUTTING MOMENT IS STILL FAR OFF

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The Tech & Media world is evolving into an increasingly unified stack

	VIDEO				
ODICINAL CONTENT	GAMES				
ORIGINAL CONTENT	AUDIO				
	EDITORIAL				
	CONTENT DISTRIBUTION				
	AD TECH				
	MESSAGING				
	CONTENT TECH				
SERVICES	PAYMENTS & WAGERING				
	ENTERPRISE & STORAGE				
	OS & APP STORE				
	SEARCH & INTELLIGENT AGENTS				
	INTERNET OF THINGS				
PRODUCTS	MOBILE AND PERSONAL COMPUTING				
	GAMING AND STREAMING				
	COMMERCE / MARKETPLACE				
CHANNELS	DELIVERY / ON-DEMAND				
	CONNECTIVITY				

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_ Sources: Activate analysis 128

Not surprisingly, all of the major players are trying to solve many of the same problems and attempting to play in multiple layers

		U.S. BASED						ASIA	CHINA			
	amazon	É	COMCAST	DISNEP	facebook	Google	Microsoft [*]	YAHOO!	SAMSUNG SONY	Alibaba.com	Bai 益 百度	Tencent 腾讯
VIDEO	•	•	•	•	•	•		•	•	•	•	•
GAMES	•			•			•	•	•			•
AUDIO	•	•		•		•			•	•		•
EDITORIAL			•	•				•		•	•	•
CONTENT DISTRIBUTION	•	•	•	•	•	•	•	•	• •	•	•	•
AD TECH	•	•	•	•	•	•	•	•		•	•	•
MESSAGING		•			•	•	•	•		•	•	•
CONTENT TECH												
PAYMENTS AND WAGERING	•	•			•	•	•		•	•	•	•
ENTERPRISE & STORAGE	•	•				•	•		• •	•	•	•
OS & APP STORE	•	•				•	•		•	•	•	•
SEARCH & INTELLIGENT AGENTS						•	•	•		•	•	•
INTERNET OF THINGS	•	•		•	•	•	•		• •	•	•	•
MOBILE & DEVICES	•	•		•		•	•		• •			
GAMING & STREAMING	•	•	•	•		•	•		• •	•	•	•
COMMERCE / MARKETPLACE	•	•		•		•	•		• •	•	•	•
DELIVERY / ON-DEMAND	•					•				•	•	•
CONNECTIVITY			•			•						



Sources: Activate analysis

WE CAN ANTICIPATE THE NEXT STRATEGIC MOVES OF MAJOR CONSUMER TECH AND MEDIA PLAYERS BY IDENTIFYING THE LAYERS THEY'RE MISSING

Expect the next wave of M&A activity to be driven by larger players looking to fill in the gaps with the independent players

KEY INDEPENDENT PLAYERS IN EACH LAYER





Sources: Activate analysis 131

COMPANIES THAT CAN'T BUY THEIR WAY INTO A LAYER OF THE STACK WILL TRY TO "OVERLAY" IT

BIG PLAYERS MAY ATTEMPT TO ENTER NEW LAYERS BY USING THEIR MARKET STRENGTH IN ADJACENT LAYERS RATHER THAN THEIR DEEP POCKETS.

Major technology players and upstarts are already implementing an overlay strategy for fiercely competitive layers







Google Now, Apple Siri and Microsoft Cortana overlay other search and messaging layers by providing a user interface which bypasses competitors' services completely



Amazon Echo overlays Internet of Things products from other companies, forming an intermediary layer that lets Amazon retain control over the user experience of those devices



Slack's unified search doesn't just provide access to chat messages in Slack, but the contents of files in apps that are connected to Slack, overlaying productivity software in adjacent layers



Microsoft Office 365 is now available on every operating system, overlaying platforms like Android and iOS with an enterprise layer that Microsoft controls



Apple TV overlays the offerings of cable companies and over the top video providers by adding an interface which can search for content without regard for its source, putting control in Apple's hands

THANK YOU!



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Activate: We are the leading strategy consulting firm for technology, media, entertainment and information companies

Activate works with CEOs, senior management teams and principal investors to drive growth and position their companies to win in the dynamic tech and media ecosystem.

We help our clients develop strategies to grow their businesses and capture the opportunities from the innovation and invention reshaping these industries.



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Take advantage of innovation, platforms, businesses, content and technology.



Formulate strategies
and identify
opportunities to enable
tech and media
companies to create
new and engaging user
experiences, products
and services that
underpin new growth
businesses, revenue
streams and audiences.



Create new
businesses as 'virtual
startups' within large
companies. Leverage
content, technology
and experiences to
take advantage of the
native capabilities of
devices and
platforms.



structures and
strategies to grow
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and coverage model;
advertiser revenue
management; new
category and customer
development; consumer
and b-to-b marketing.



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expertise and track
record in enhancing
business
performance to help
strategic acquirers
and private equity
firms assess assets
and determine how to
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