TECH AND MEDIA OUTLOOK 2016

WSJD Live Conference

FINK AGAIN

October 20, 2015

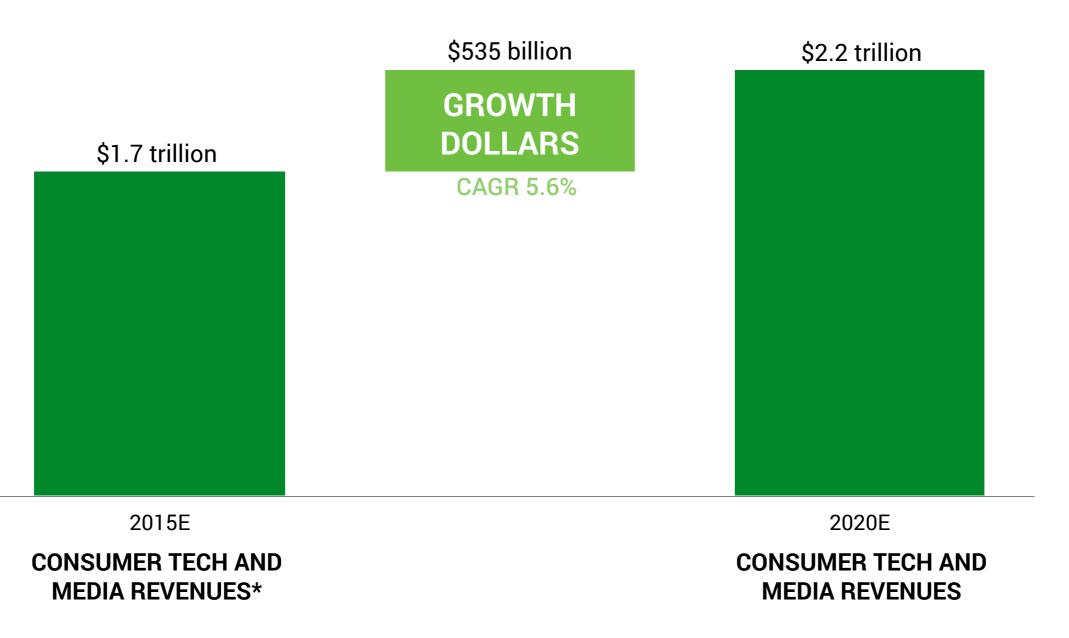
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Over the next five years, the consumer tech and media industry will grow by over \$500 Billion

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



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Sources: PwC, IFPI, eMarketer, IBIS, SuperData, NewZoo, IBIS, Activate analysis. CAGR based on values prior to rounding. *Consumer Tech and Media Revenues includes Radio, Recorded Music, Magazine Publishing, Newspaper Publishing, Video Games, Filmed Entertainment, Book Publishing, TV Subs and Licensee Fees, Internet Access, Digital advertising & Traditional advertising on these platforms

1

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

CAPTURING ATTENTION IS NOT A ZERO SUM GAME

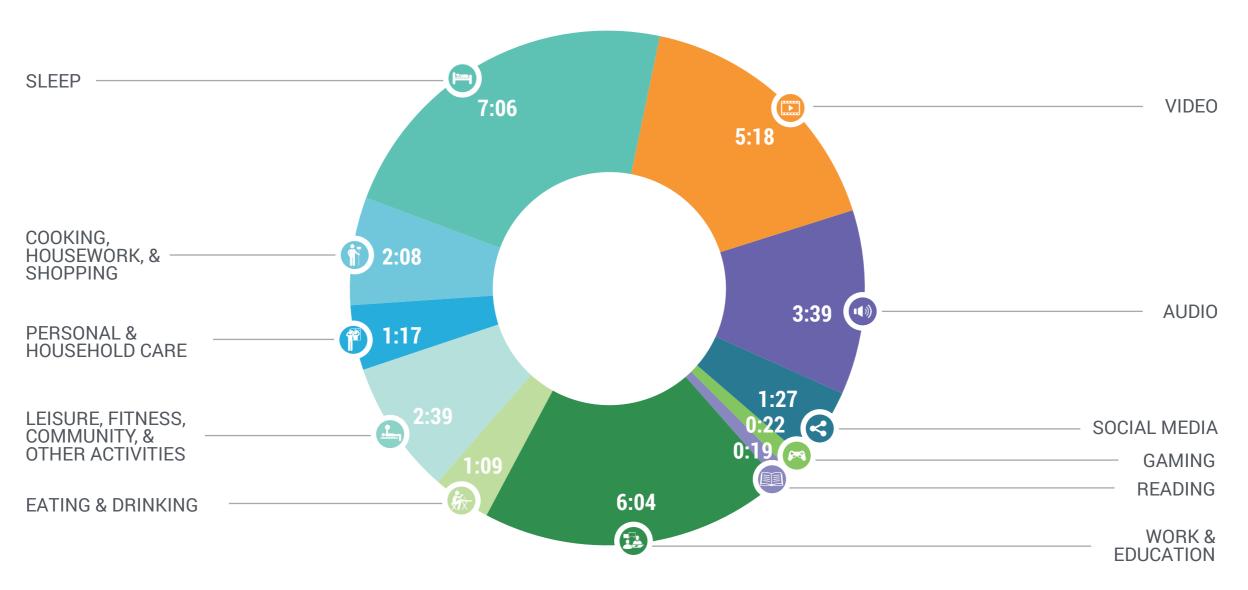


WE ANALYZED EVERY MINUTE IN AN AVERAGE AMERICAN ADULT'S DAY



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

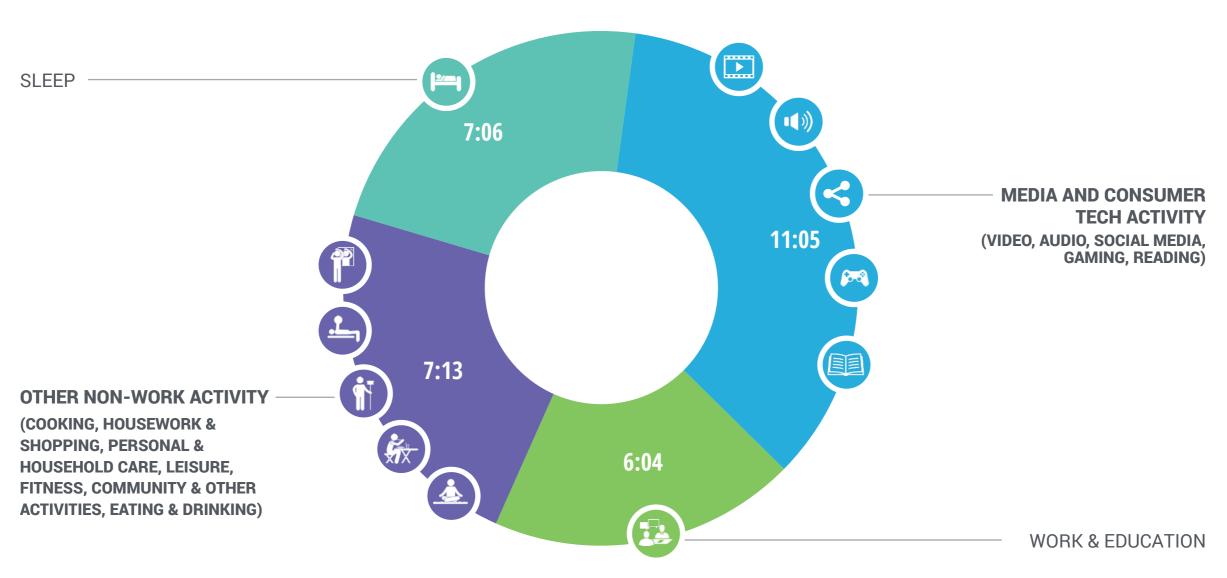


TOTAL: 31 HOURS 28 MINUTES

Sources: Bureau of Labor Statistics, The Telegraph, Edison Research, We Are Social, eMarketer, Nielsen, National Sleep Foundation, Deloitte, SNL Kagan, Sandvine, Ipsos, comScore, Global Web Index, OECD, Activate analysis. Behaviors averaged over 7 days. Related travel time is included within timing reported for daily activities.

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

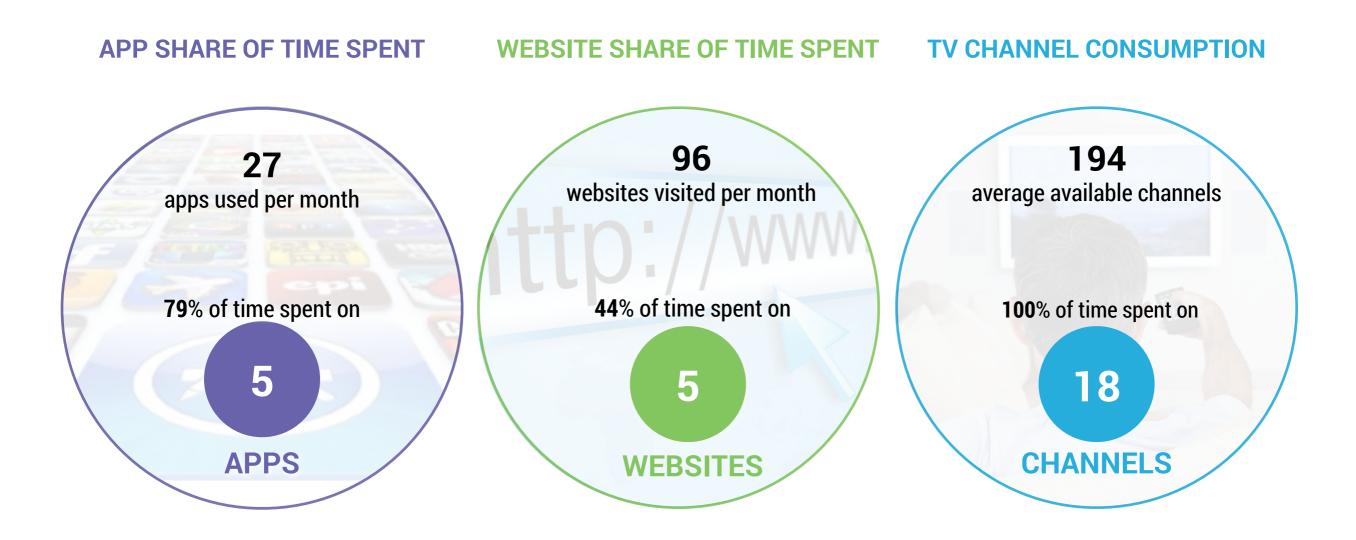


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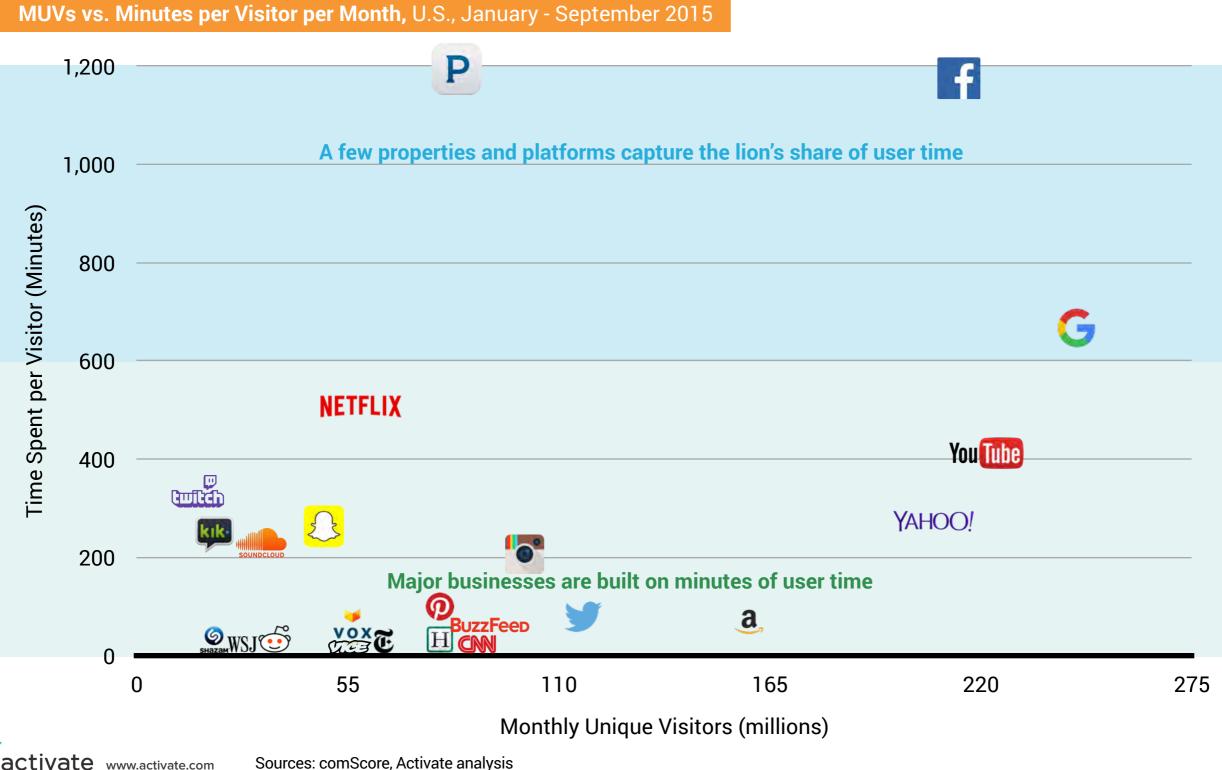
Sources: Bureau of Labor Statistics, The Telegraph, Edison Research, We Are Social, eMarketer, Nielsen, National Sleep Foundation, Deloitte, SNL Kagan, Sandvine, Ipsos, comScore, Global Web Index, OECD, Activate analysis. Behaviors averaged over 7 days. Related travel time is included within timing reported for daily activities.

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

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



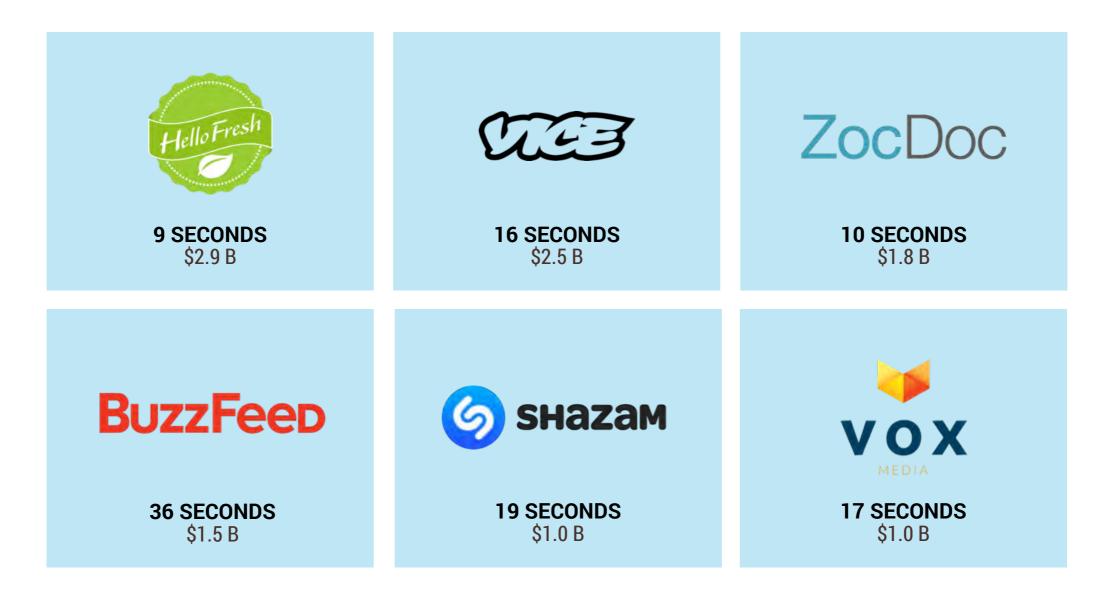
We can find growth opportunities in people's online behavior: how many users visit the top websites and apps, and for how long?



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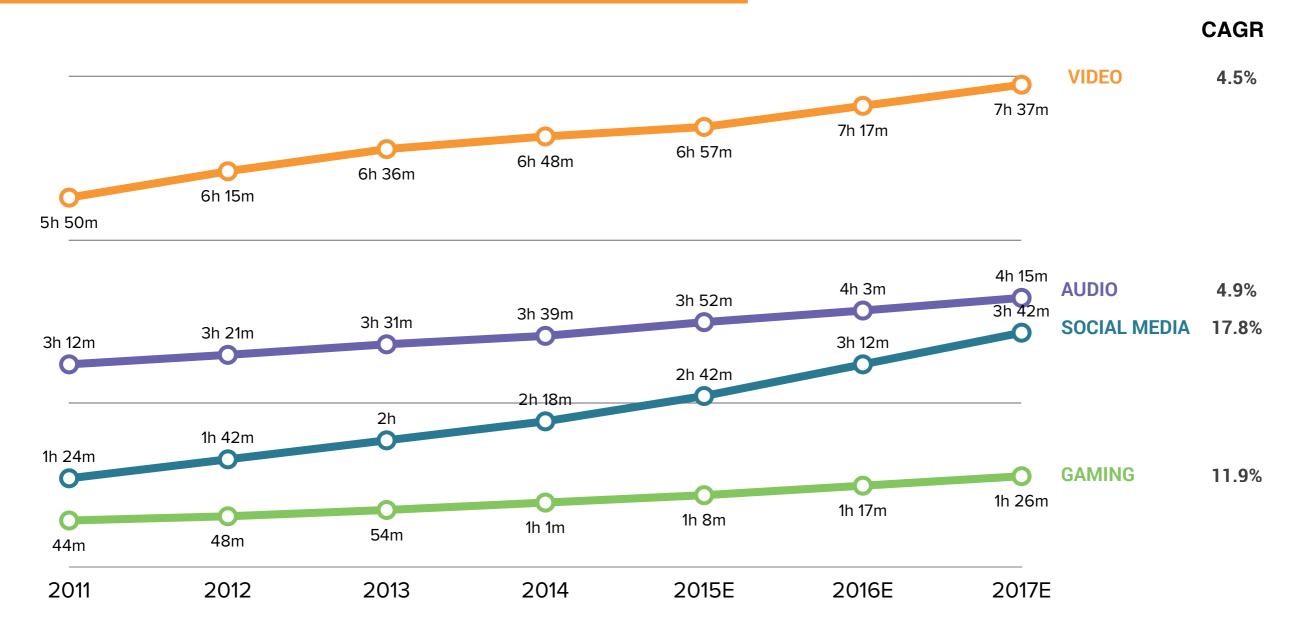
A billion dollar business can be built by capturing less than a minute of an average user's daily attention

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



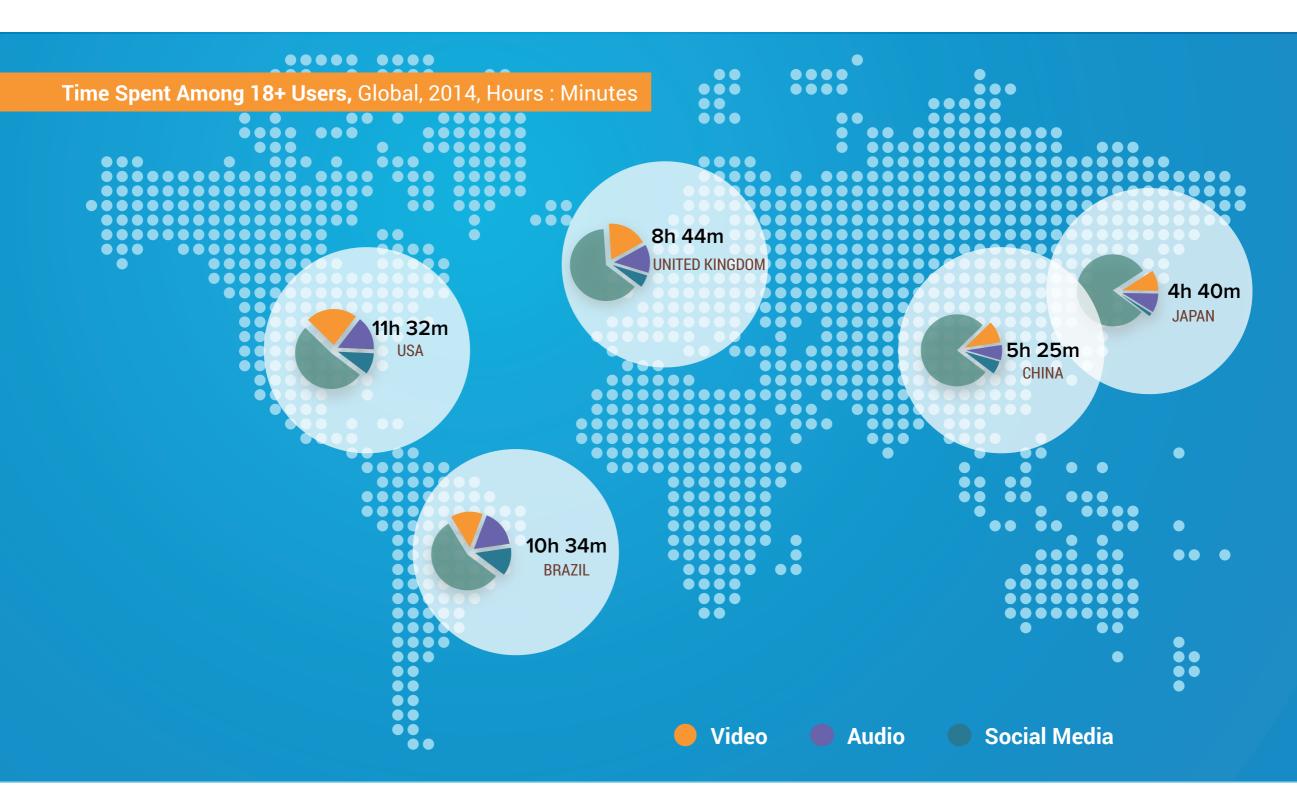
Time spent on major digital activities like video, audio, social media and gaming will continue to increase

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



Sources: Edison, We Are Social, eMarketer, Nielsen, Deloitte, SNL Kagan, Sandvine, Ipsos, comScore, Global Web Index, Pew Research Center, Flurry Insights, Informate, NetMarketShare, Statcounter, Activate analysis. Time spent may be double counted (e.g. YouTube for both video and audio).

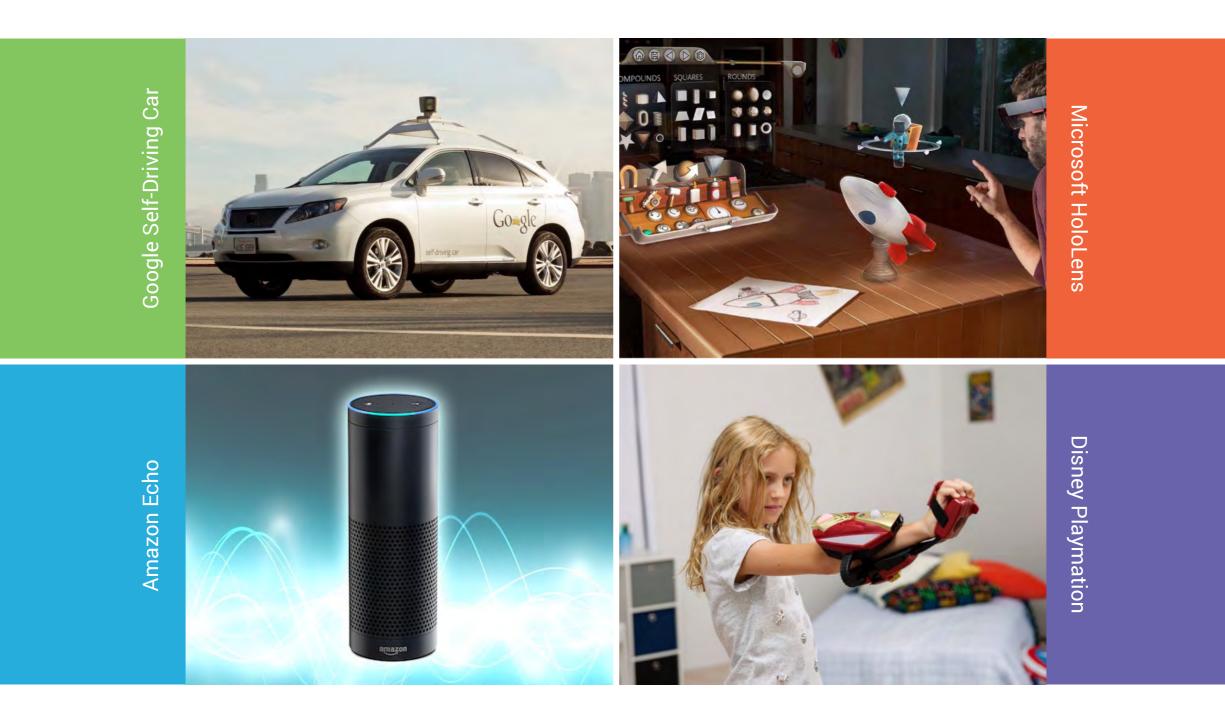
These behaviors dominate people's attention around the world



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Sources: Edison, eMarketer, Nielsen, Sandvine, US Media Consulting, Cisco, Experientia, Media UK, Global Web Index, Secom, Ofcom, GroupM, Activate analysis

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



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

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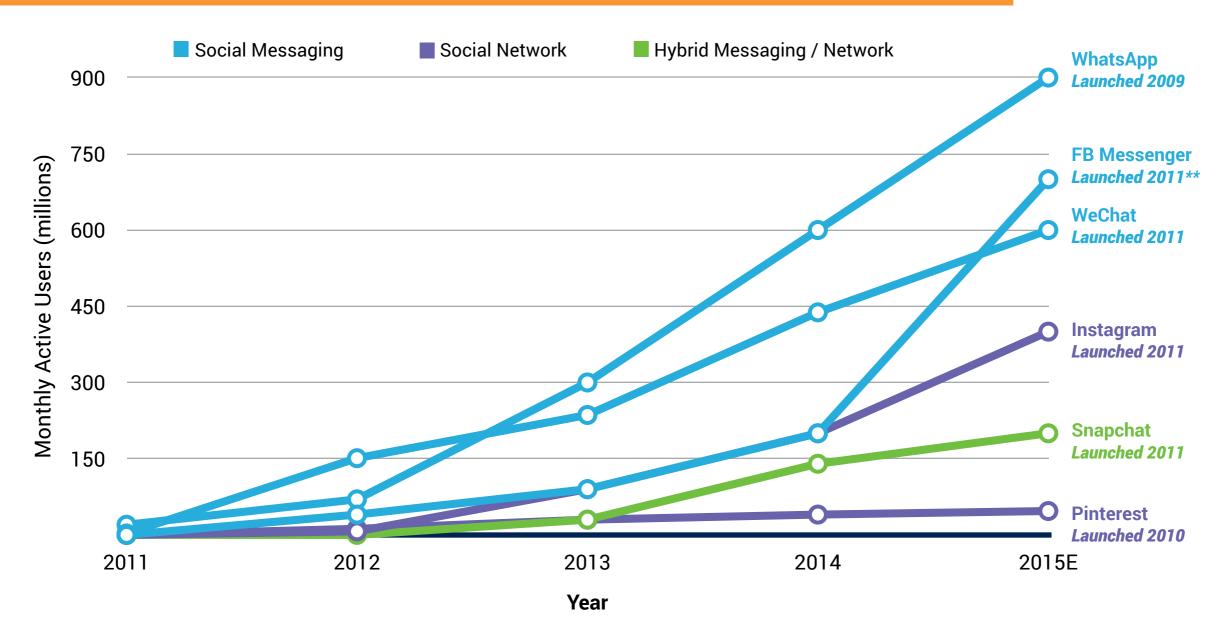
GOOD LUCK GETTING RICH IN THE APP STORE!

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

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

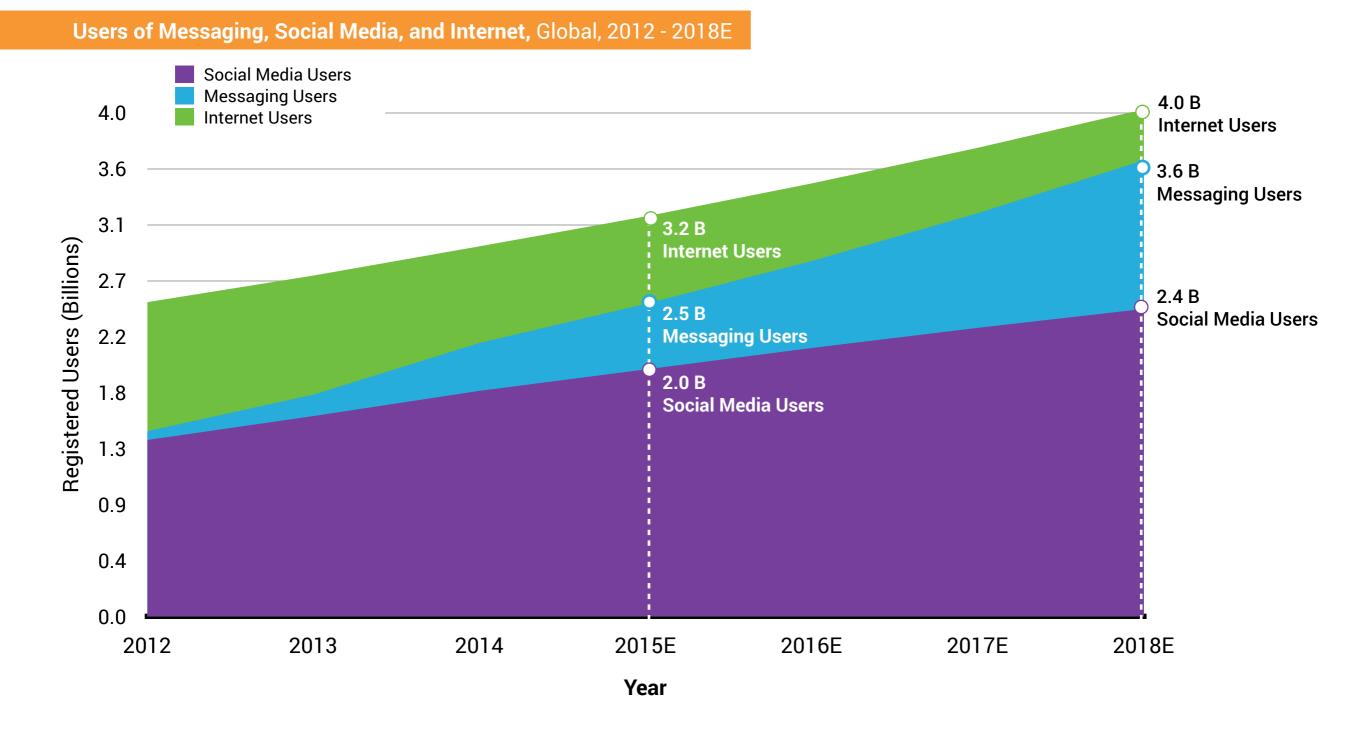
Growth of Messaging Platforms vs. Network Platforms, Monthly Active Users (MAUs), 2011 - 2015E*



*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. **Became standalone app in 2014

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

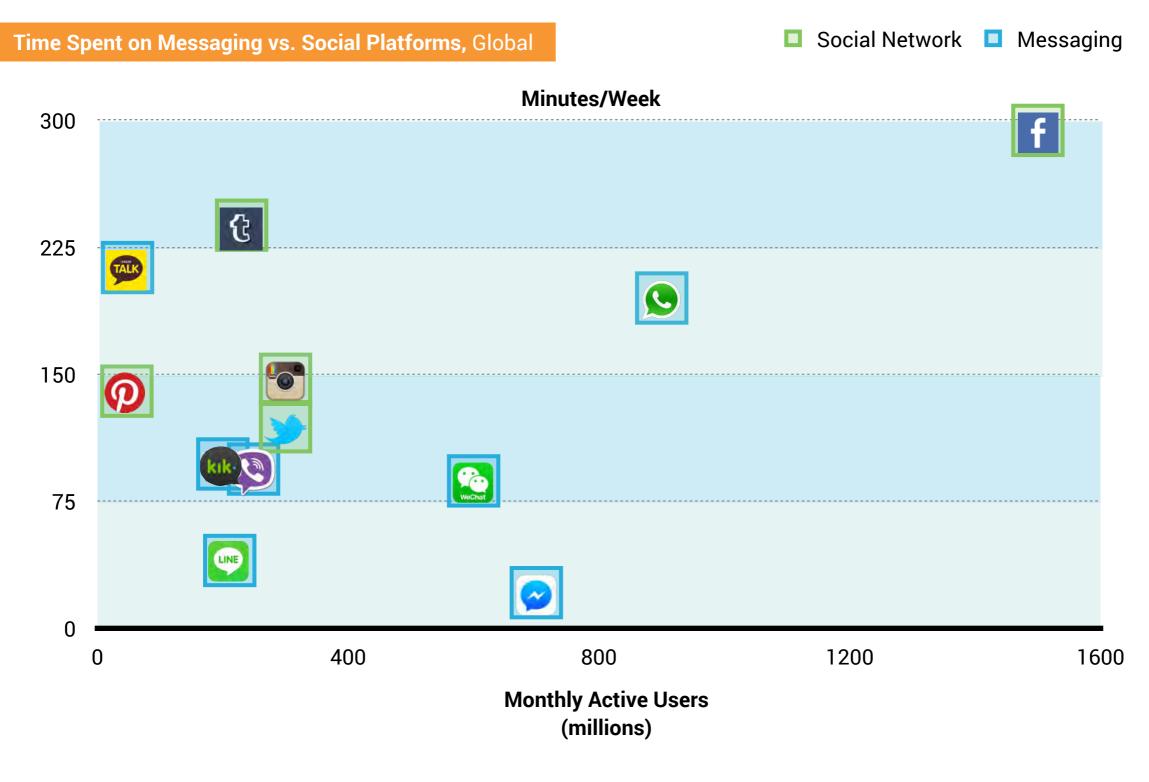
We forecast that messaging will add 1.1 Billion new users by 2018



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Sources: Activate forecast, GlobalWebIndex, eMarketer, ITO, Activate analysis. Note: Number of monthly active users is lower than number of registered users

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

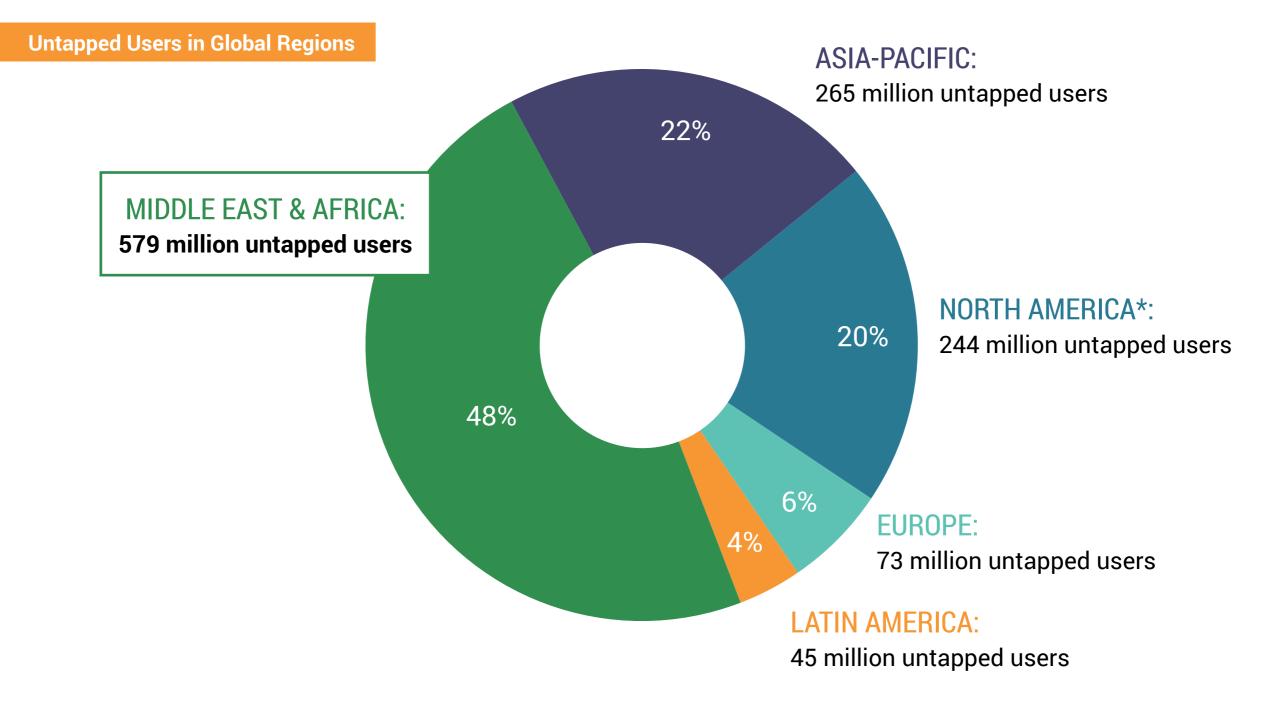
While founded in the U.S., both WhatsApp and Facebook Messenger have attracted global audiences

	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	The third largest messaging platf Chinese – WeCh (and its predeced QQ Mobile) owne	rd largest
	Viber	249	EMEA		-
	LINE	211	Japan		
	Snapchat	200	USA & EMEA		•
-	Kik	200	EMEA		
	Telegram	85	EMEA	Tencen	t
	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		

*Indicates estimates; ** Estimate based on number of iPhones sold

activate www.activate.com Sources: AppAnnie, AdWeek, Quartz, Yahoo Finance, Experian, TechCrunch, Forbes, Tech in Asia, VentureBeat, Kakao, LINE, Viber, Activate analysis

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

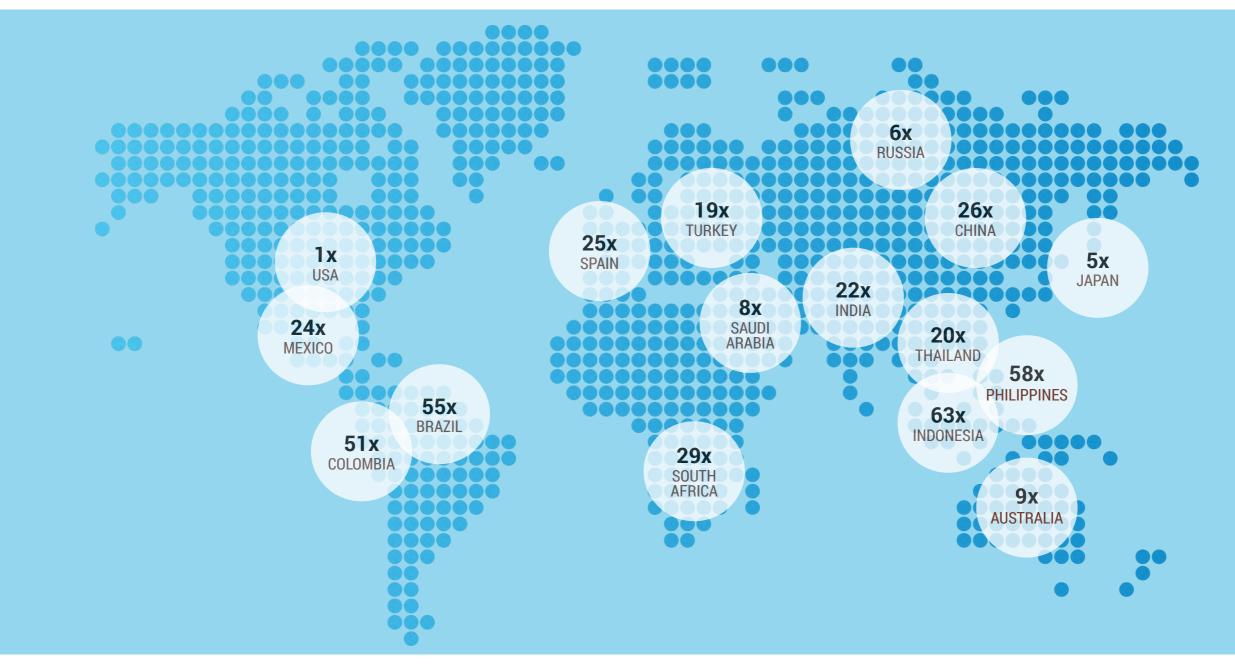


* Includes Mexico Sources: LINE Payment map, Twilio, U.S. Census Bureau, Forbes, Gallup, Colombia Reports, nations.org, Activate analysis. Based on current and potential penetration of smartphones and messaging

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

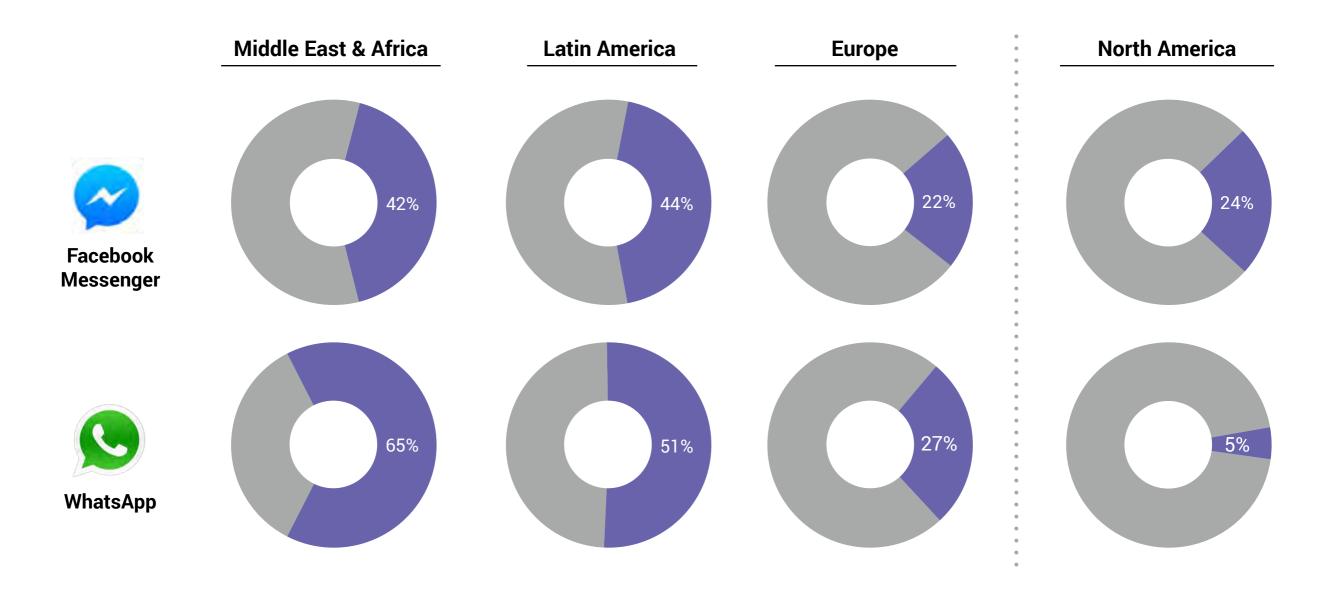


Sources: Gallup, Twilio, U.S. Census Bureau, Forbes, Colombia Reports, World Bank, Activate analysis. Median household income accounts for purchasing power parity, and proportional cost of sending SMS is also based on relative percentage of median household income.

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

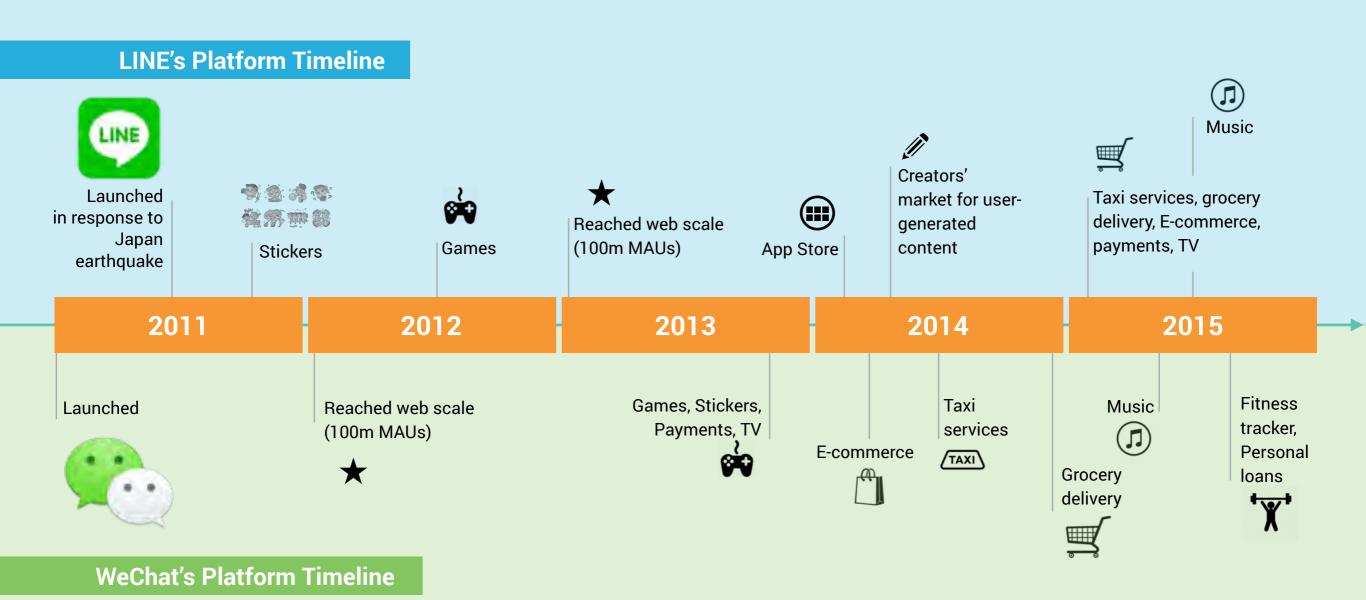
Penetration Rate



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

Penetration by Co	untry, Local vs. Globa	al Messengers	5		
	Country	Dominant	t Local (APAC) App	Facebook Messenger 🔗	WhatsApp 🕓
Major local	China	WeChat	0.65	0.04	0.03
players	Japan		0.6	0.02	0
	South Korea	TÄLK	0.43	0.18	0.02
	Taiwan		0.48	0.34	0.1
	Thailand	LINE	0.54	0.46	0.12
Southeast Asia: Competition from	Vietnam	Zalo	0.4	0.5	0.07
global players	Philippines	LINE	0.09	0.52	0.1
	Malaysia	WeChat	0.31	0.49	0.64
	Indonesia		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 TV



LINE Payments





LINE Games



LINE Pokopang





NEW

LINE Bubble

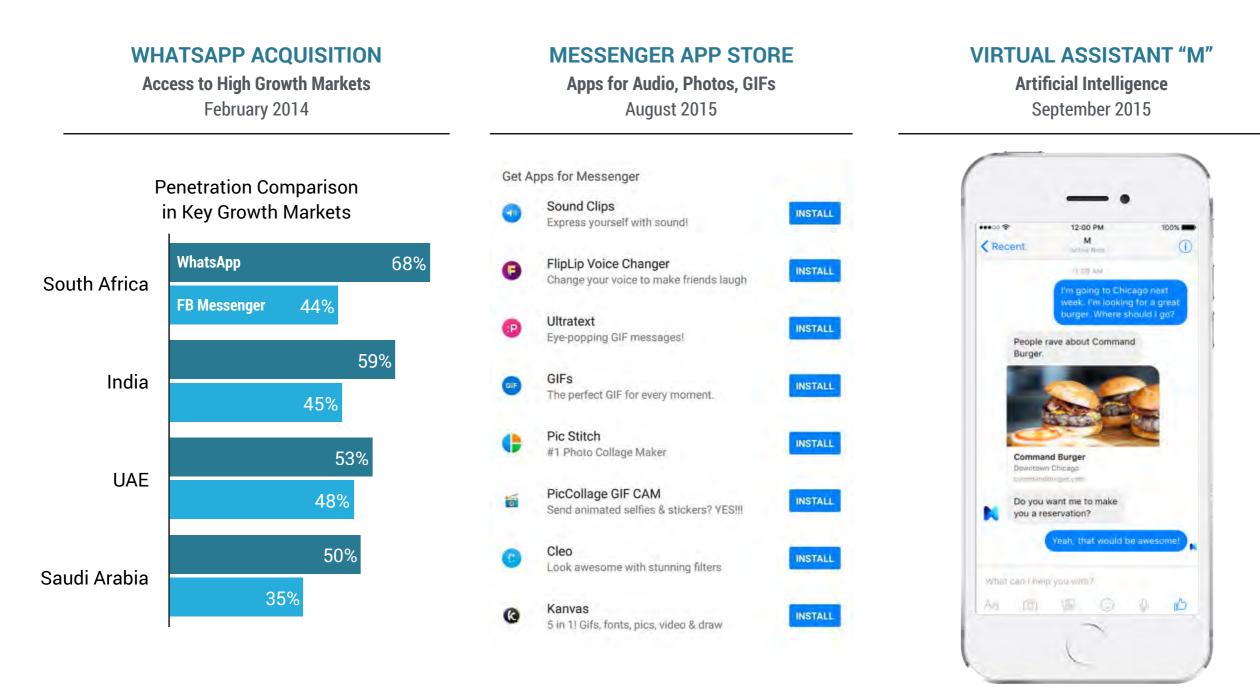


LINE WindRunner

LINE | Love Coffee

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

facebook.

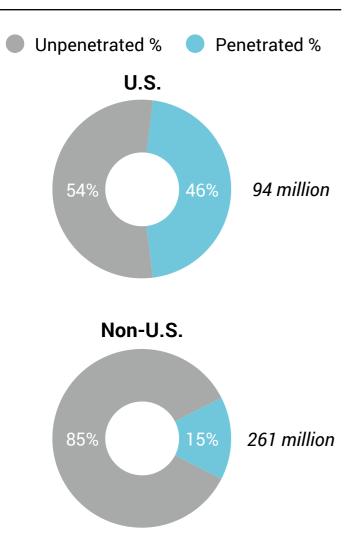


Apple's Messages has the potential to gain significant market share, and Apple's platform control could support smarter apps



2015 YTD MARKET SHARE

Pre-Installed User Base, High Penetration in USA



SMS INTEGRATION One Interface for Messages and SMS

SMS

iMessage

9:41 AM 100% 9:41 AM (Mess Mom Contac Natalia Contac haven't heard from Vell she savs Looks like fun! I'm glad you're immersing yourself in the culture. are you guys? nto her at our falafel Send Send

iOS APP STORE

Apps Remain Separate from Messages



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



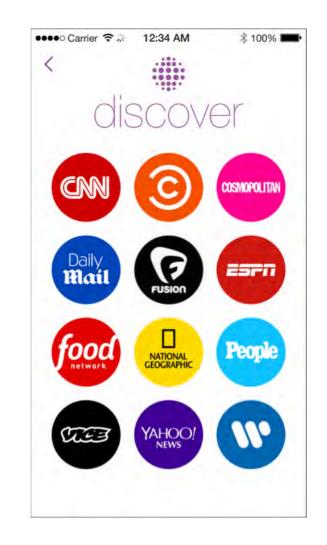
SNAPCASH

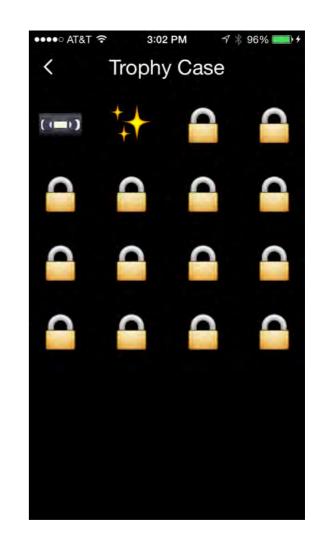
Payments Service November 2014 DISCOVER Paid Content Distribution January 2015

TROPHY CASE

Gamification of User Activity September 2015







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

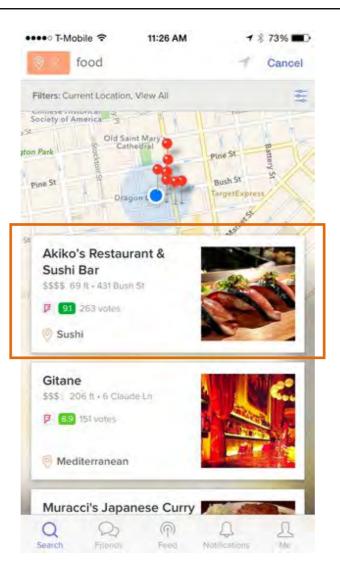
SEARCH

Mobile-Friendly Search Categories



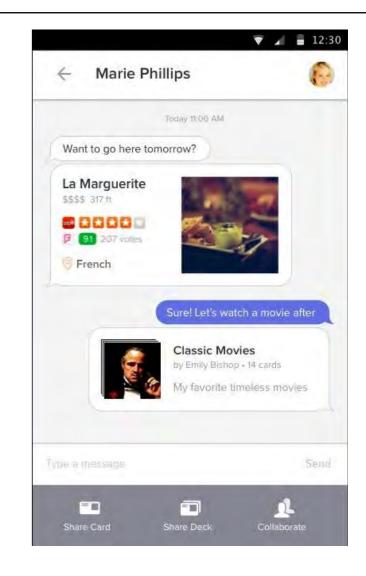
CONTEXTUAL RESULTS

Context from Other Apps Aggregated into Search Results



INTEGRATION WITH MESSAGING

Users Integrate Search Results into Chats August 2015

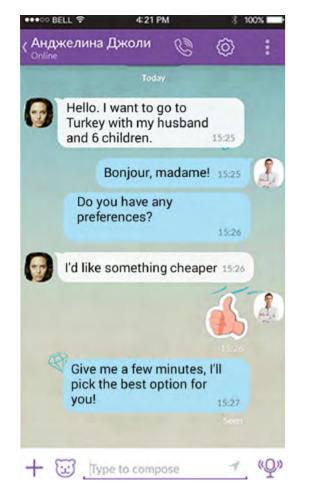


New consumer businesses are being built on messaging platforms – this will expand as messaging bots become more ubiquitous

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

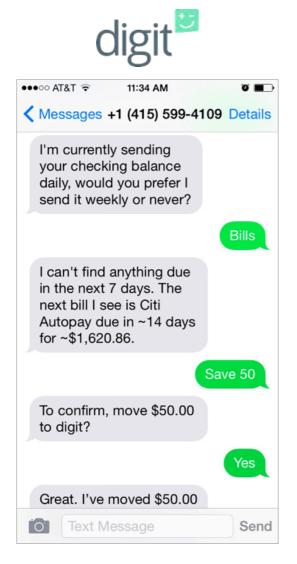


CAREER

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)



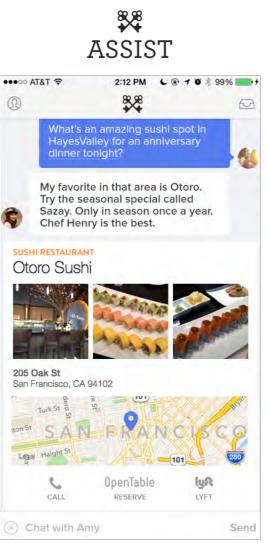
PERSONAL FINANCE

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

	·	
····· ?	9:41 AM	100%
Q Progress repo	ort	× Close
MESSAGE	5	FILES
6 matches for "Prog	gress report" in Mess	sages
mark Great! mark Everyone discuss later or liz Will do, that		nd be ready to
Q imp	ortant f i	rom:jessi

MESSAGING & SEARCH

*slack

1.1m Daily Active Users 300k Paying Users

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

≡	Activate	88 5
🦉 Ir	ntegrations	
All Ser	rvices	•
	Q Filter by name	
A	Airbrake Error monitoring and han	View
Q	appear.in Video conferences in you	View
-	AppSignal Detailed metrics for Rub	View
*	Asana Communications and tas	View
в	Beanstalk A complete workflow to	View
0	Bitbucket Free source code hosting	View

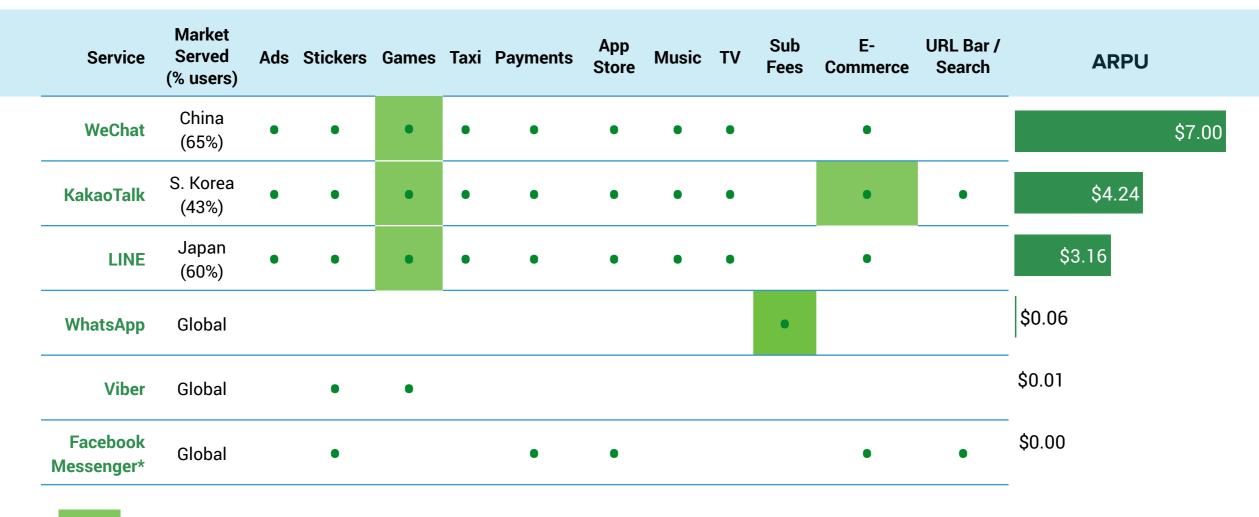
What users do in native apps today, they will also do in messaging apps tomorrow – presenting an enormous revenue opportunity

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

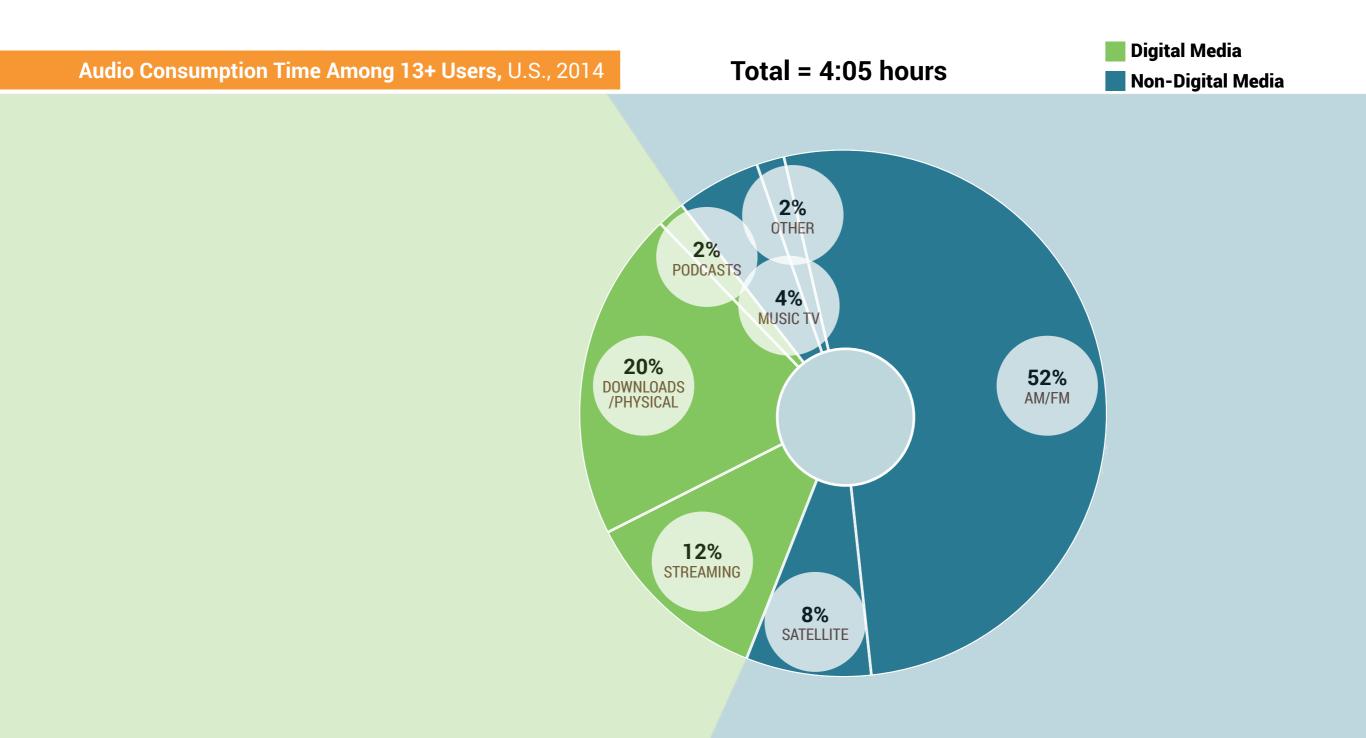


= Main Revenue Driver

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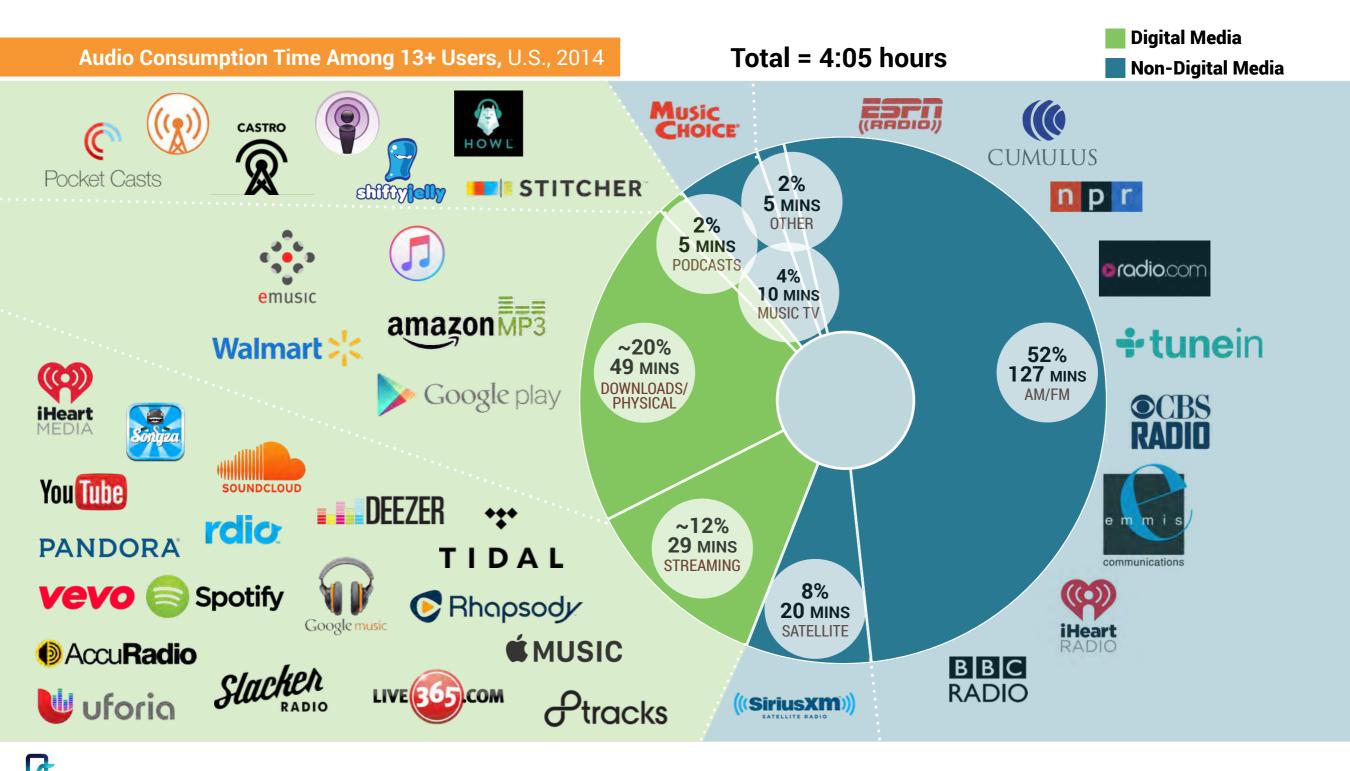


What's at stake in the audio market? Over four hours a day of listening time—and growing



activate www.activate.com Sources: Edison Research / Triton Digital, Activate analysis. AM/FM includes radio content consumed over digital platforms.

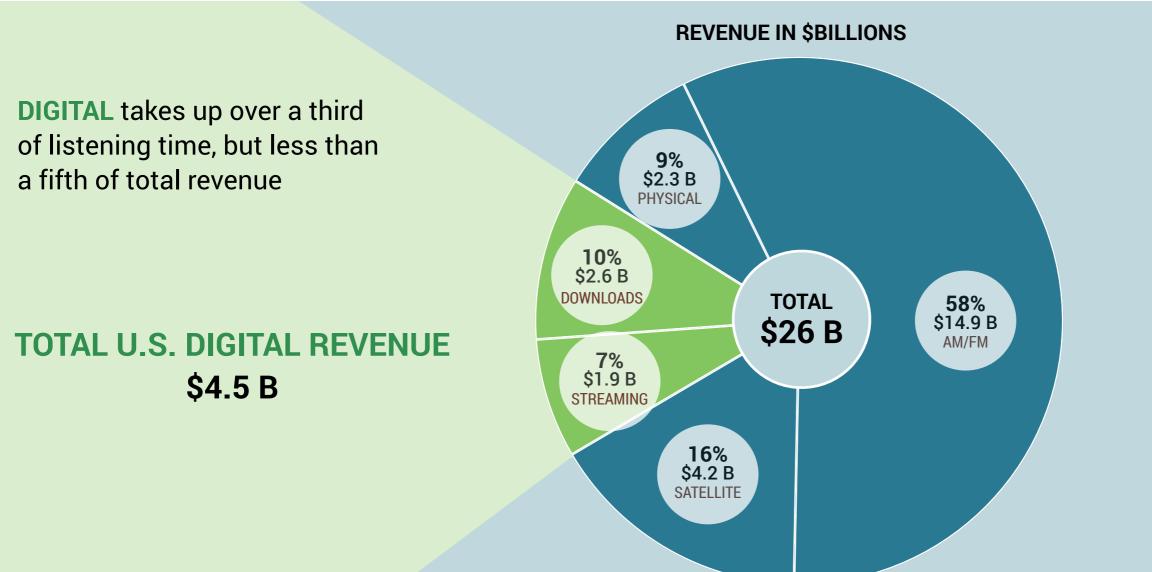
There's a proliferation of new digital players, but many crowded categories only represent a small fraction of overall listening



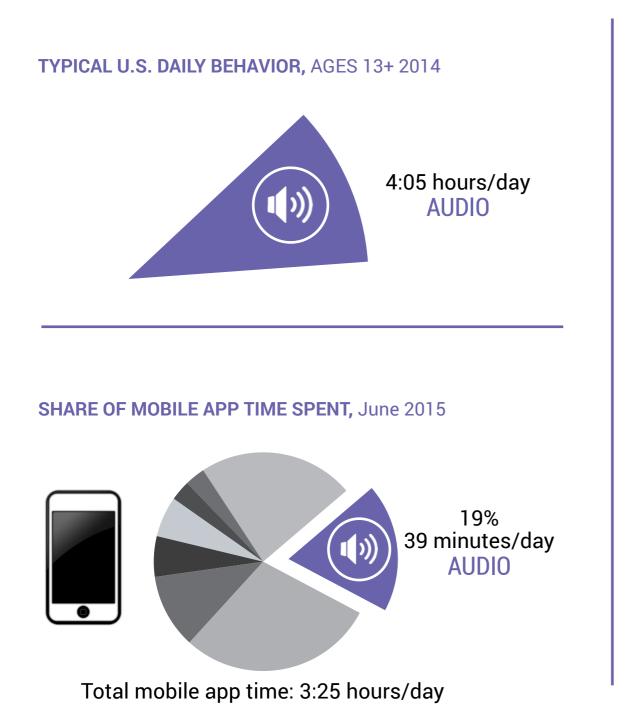
Expect growth to come from digital players claiming their fair share of the pie

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

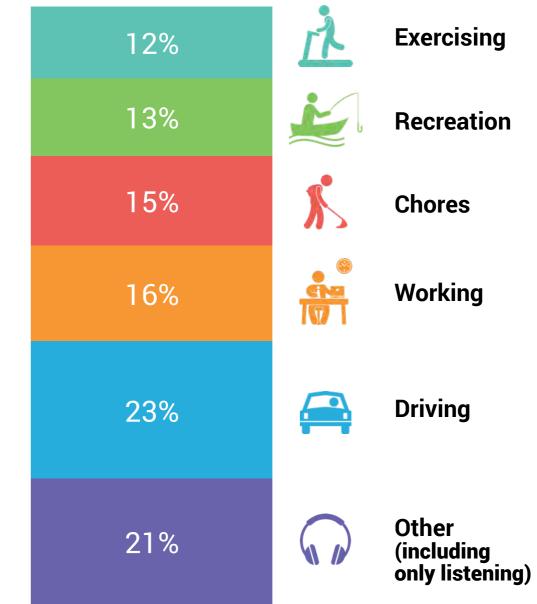




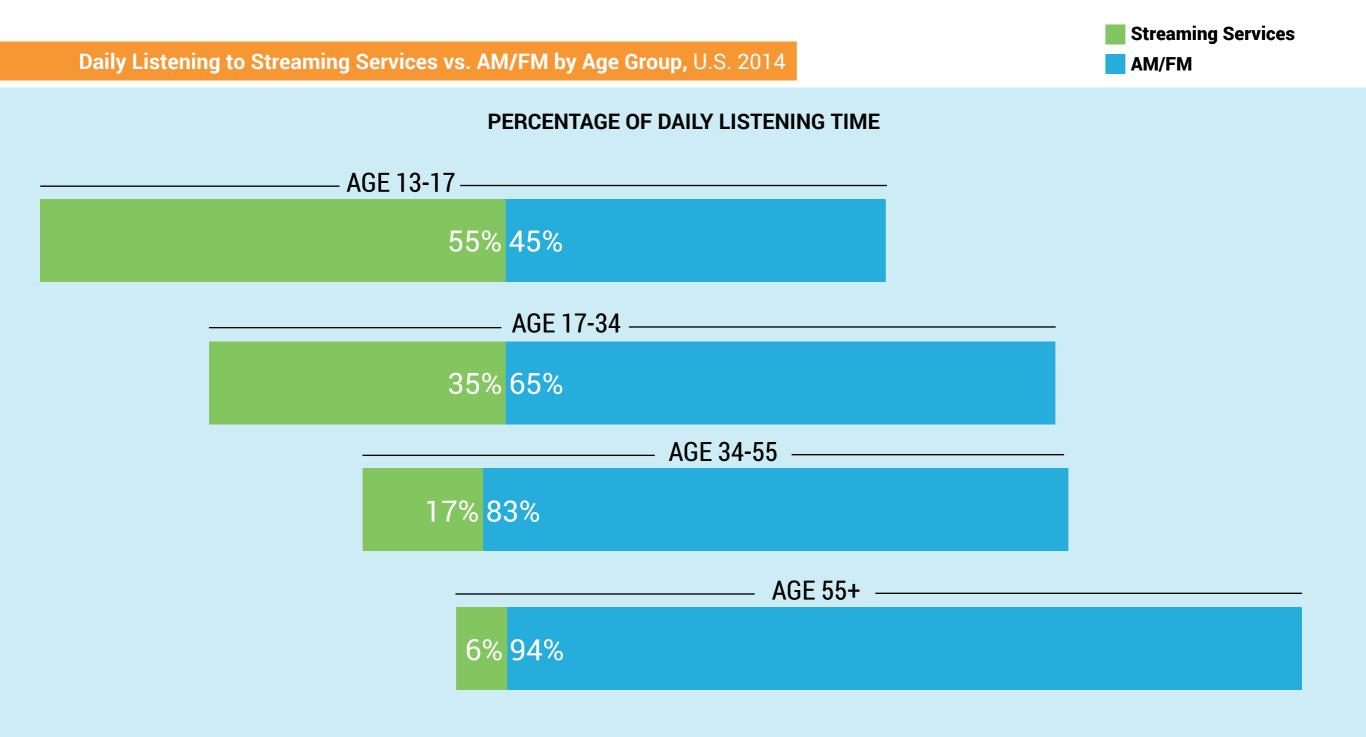
Consumers will spend more time on digital audio, driven by multitasking moments



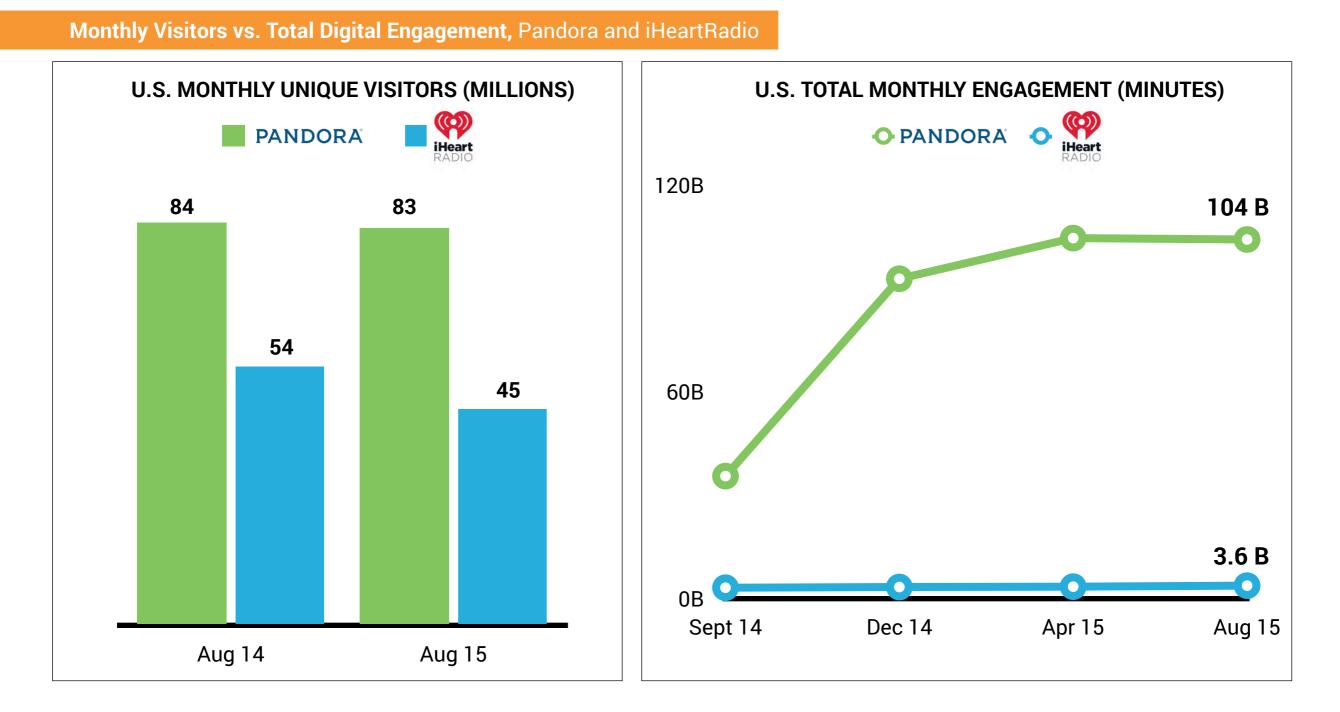
WHILE LISTENING TO MUSIC, Americans (13+) are also:



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

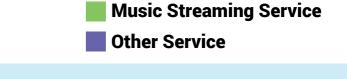


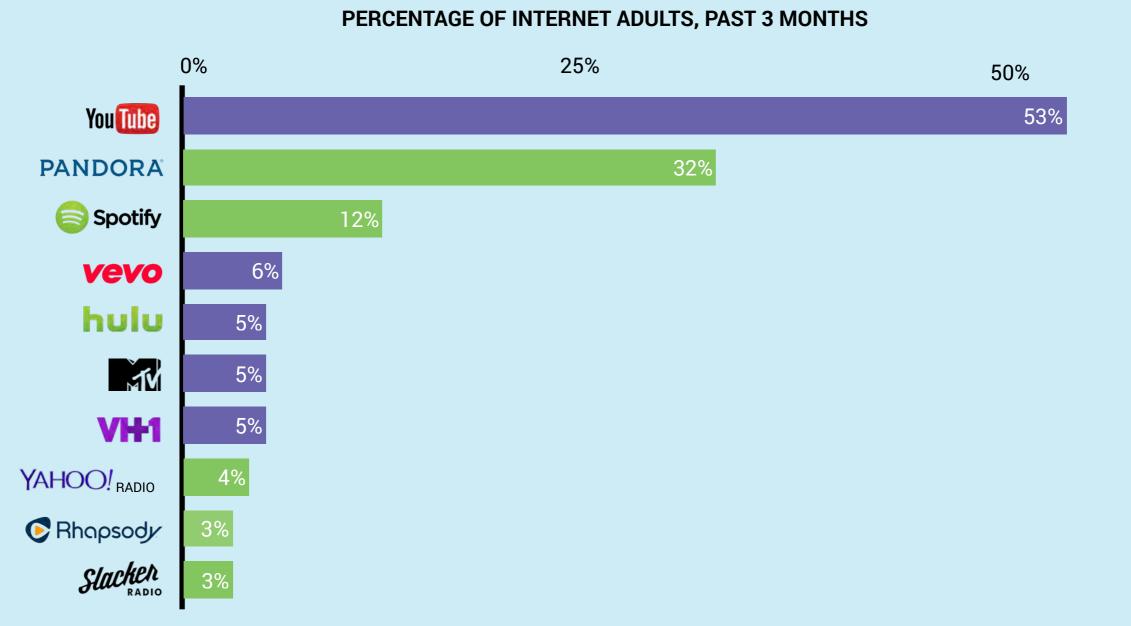
Legacy players have migrated audiences to digital streaming services, but inferior user experiences leave engagement lagging



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

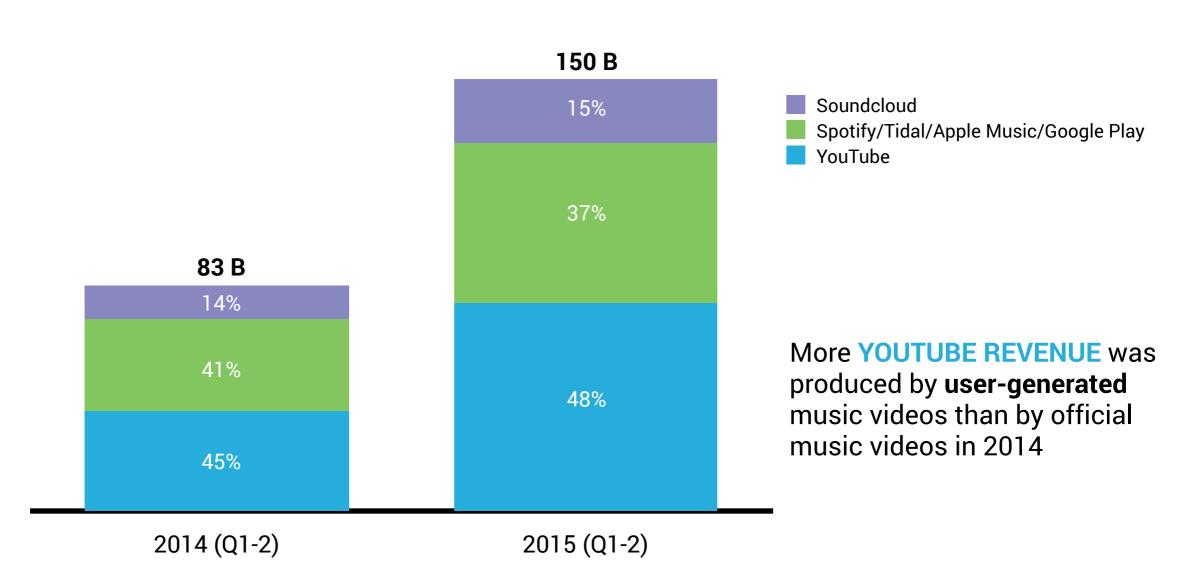
Music Sources Used, U.S., 2014





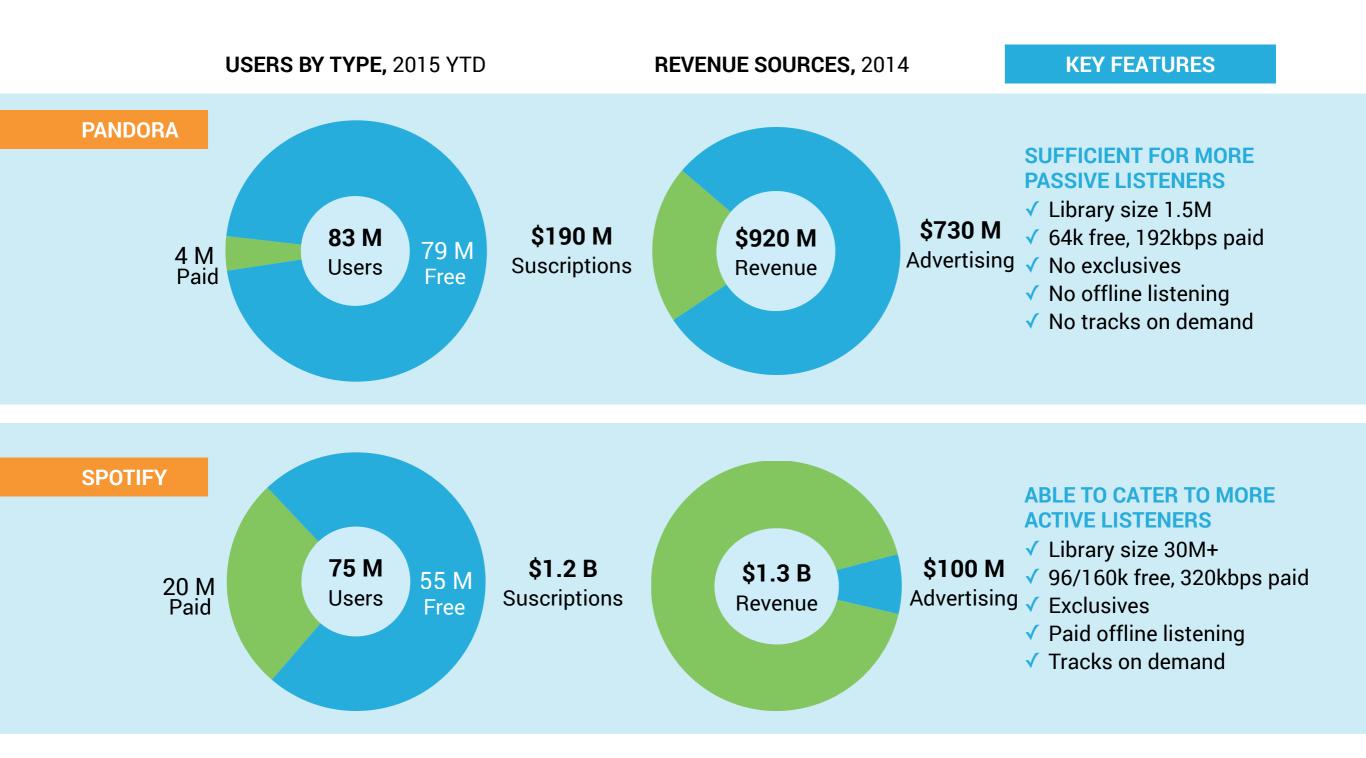
YouTube is even more dominant for on-demand streaming, representing over half of all on-demand streams

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

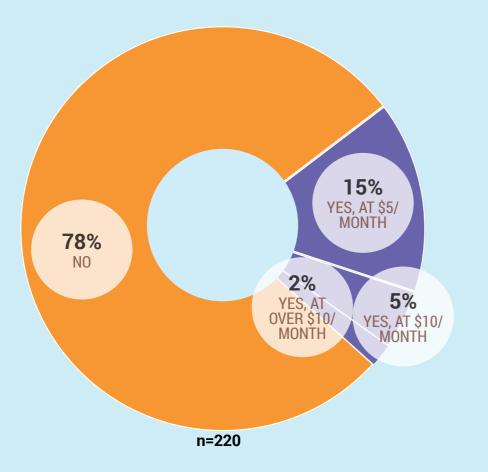


Sources: Spotify, Pandora, Activate analysis. Spotify available in 50+ countries; Pandora available only in United States, Australia, New Zealand

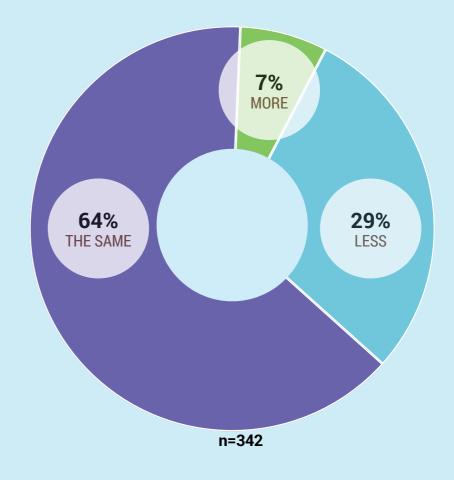
Subscriber loyalty will present a challenge to new services, but YouTube has a shot because music listeners are willing to pay

Consumer Preferences in the Digital Streaming Music Space

EXISTING STREAMING SUBSCRIBERS: WILLINGNESS TO SWITCH TO ANOTHER SERVICE

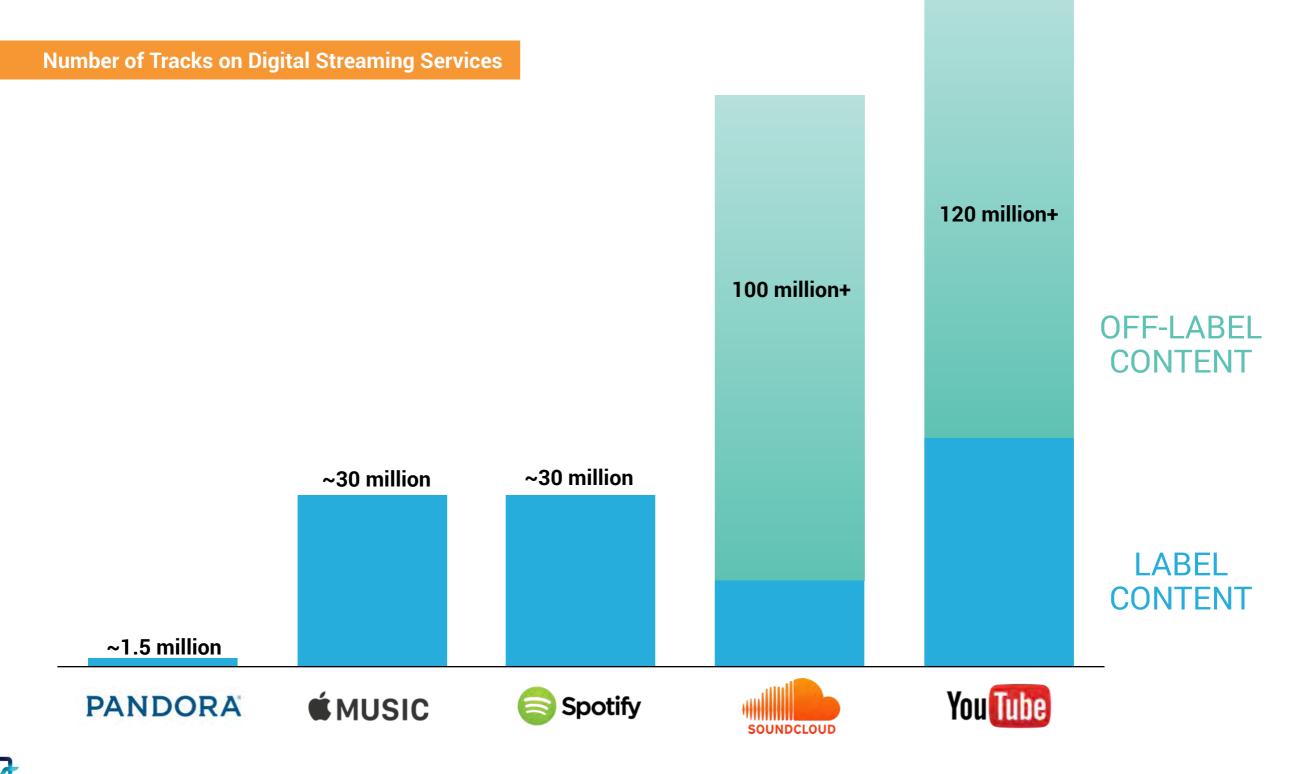


POTENTIAL STREAMING SUBSCRIBERS: PRICE TO JOIN A YOUTUBE STREAMING SERVICE, COMPARED TO EXISTING SERVICES



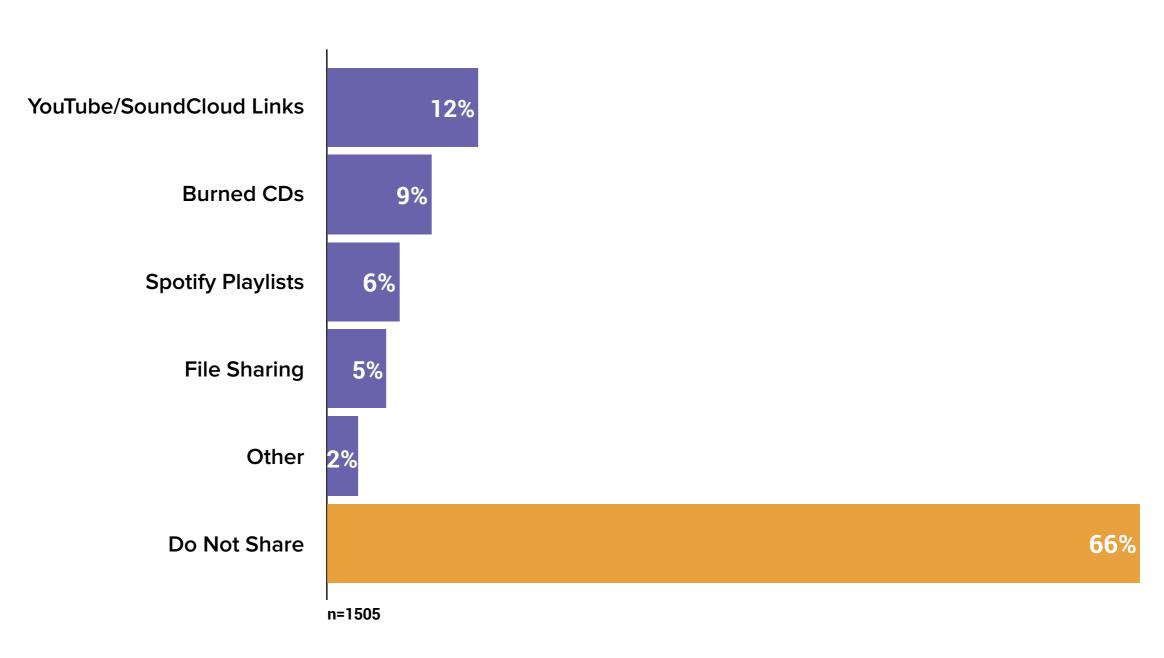
Sources: Activate survey of adults 18+, October 2015, Activate analysis. Excludes consumers who are unlikely to or will not subscribe to a music streaming service in the next 12 months

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

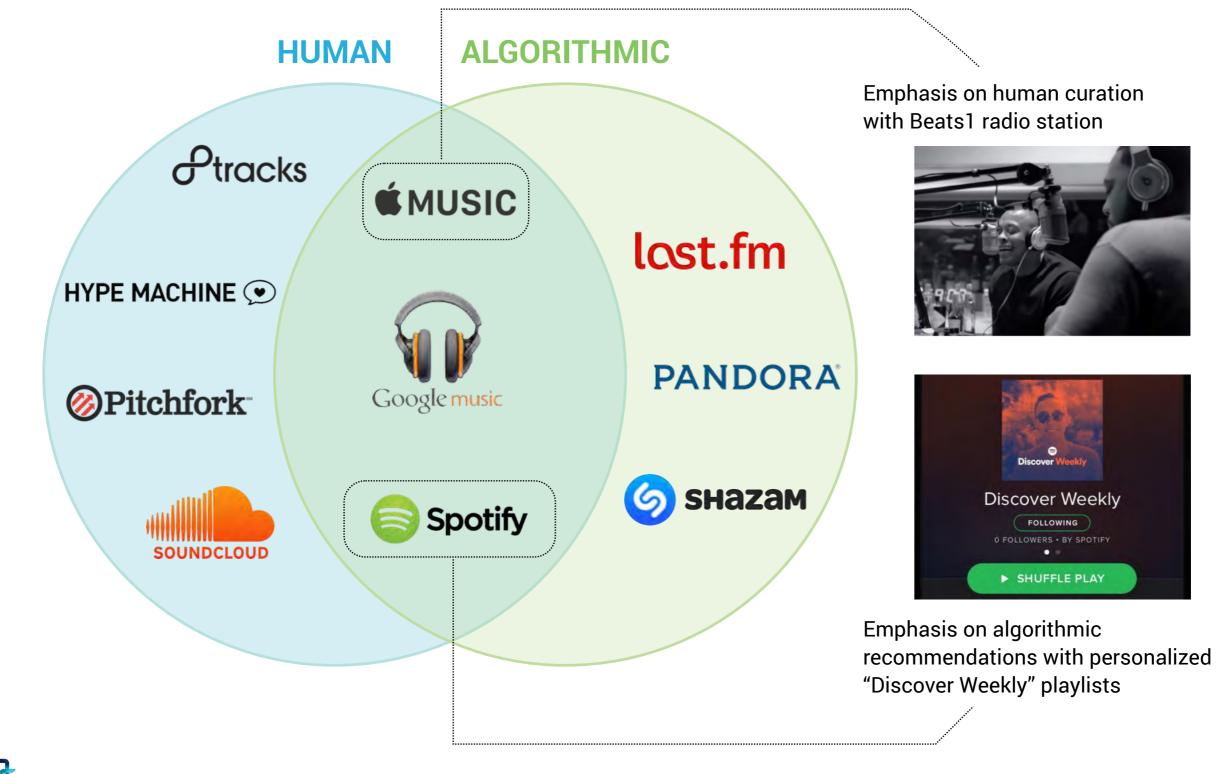


Today, most listeners don't share their listening activity on social networks, creating an opportunity for any player that can improve the sharing experience

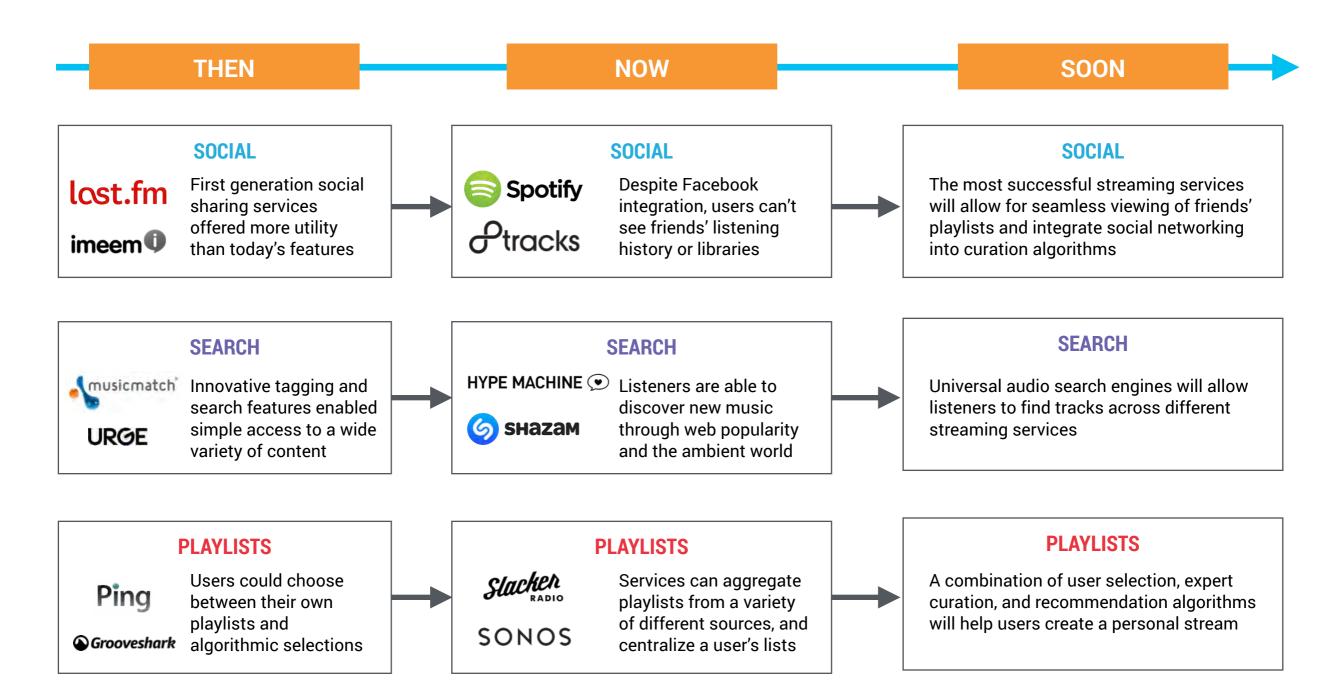
Audio Social Sharing Preferences



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

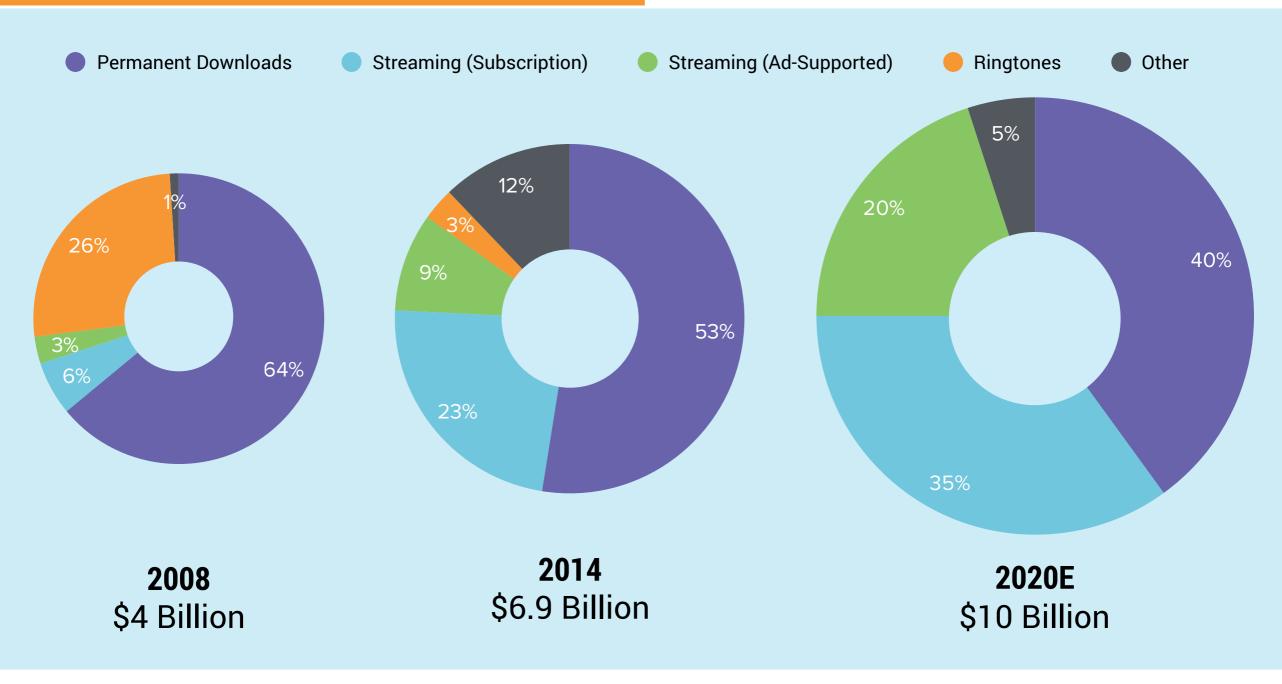


Some of the features that enable new players to succeed may revisit features from past generations of digital music services



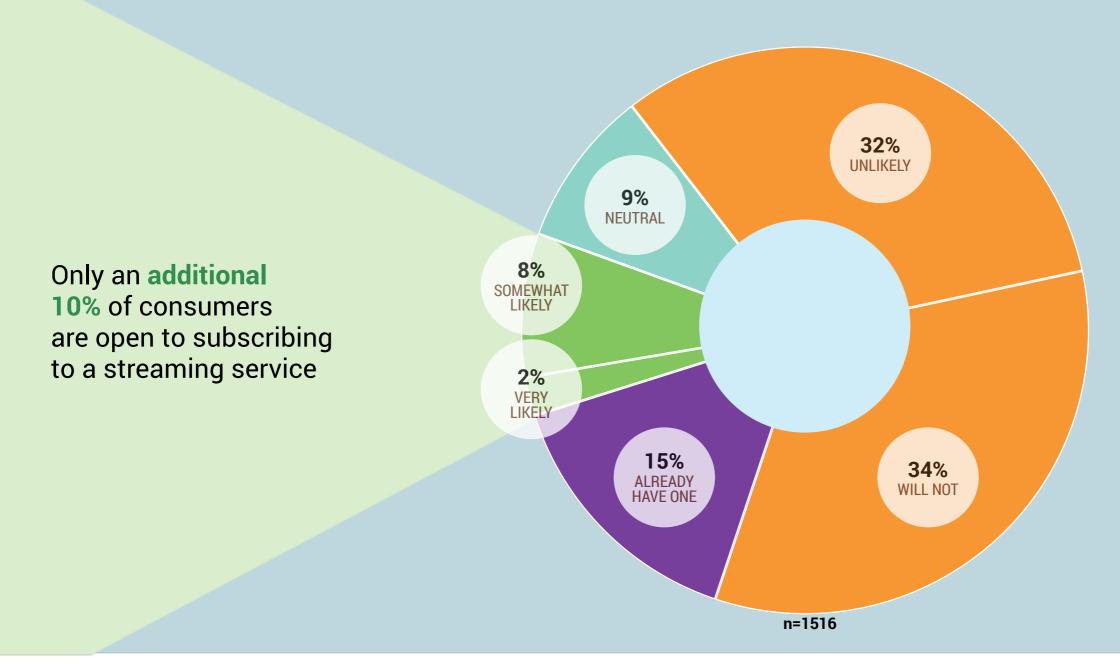
By 2020, digital music revenues will be \$10 Billion globally, and streaming will be over half of that - growing at the expense of downloads



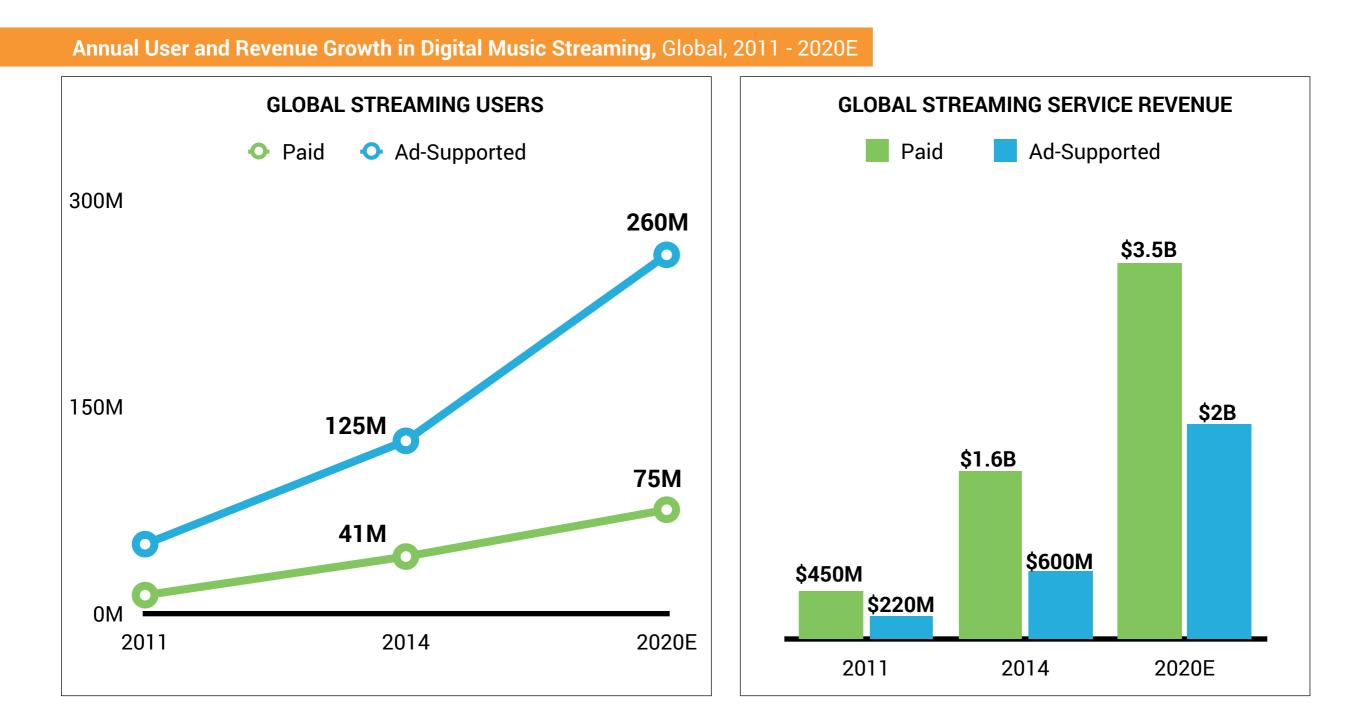


There may be an upper bound to the number of consumers that are willing to pay for a subscription music service

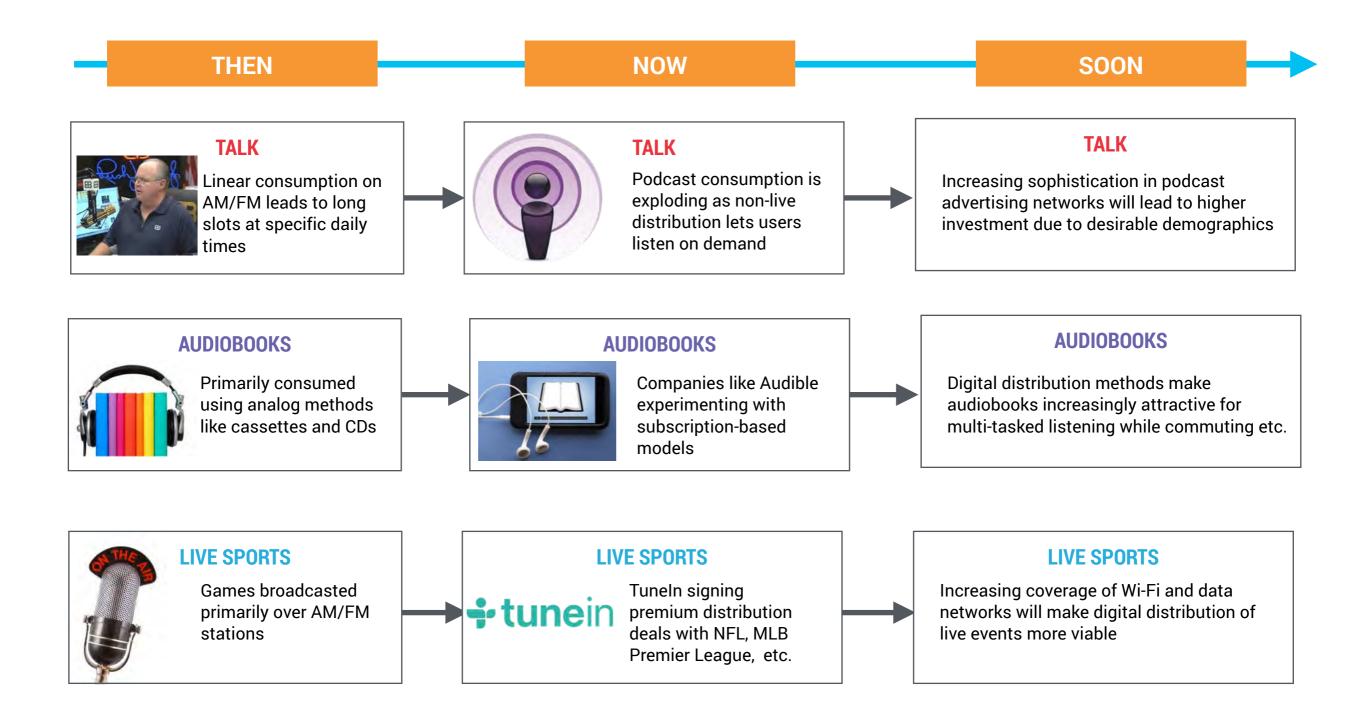
U.S. Consumer Likelihood of Purchasing Music Streaming Subscription in the Next 6 Months



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

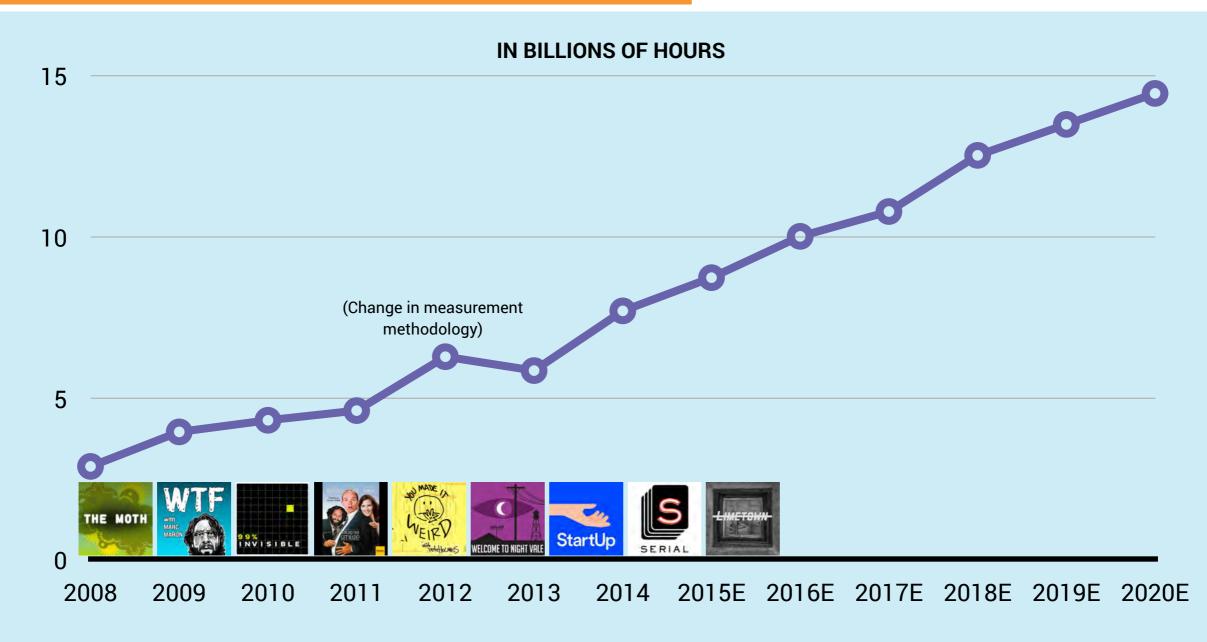


Beyond music, opportunities abound in non-music formats as listeners move from analog to digital

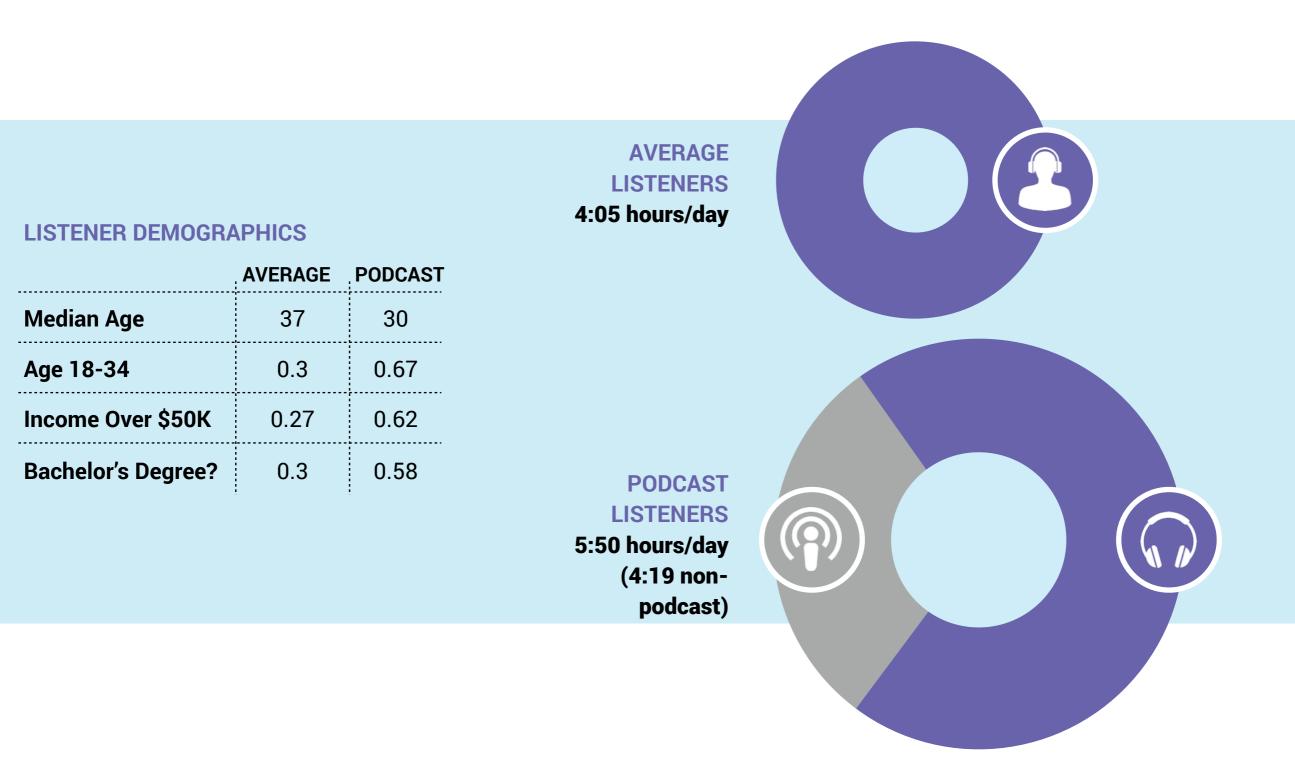


It's more than just music: Podcast are having their breakout moment as consumption explodes will continue to grow steadily

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



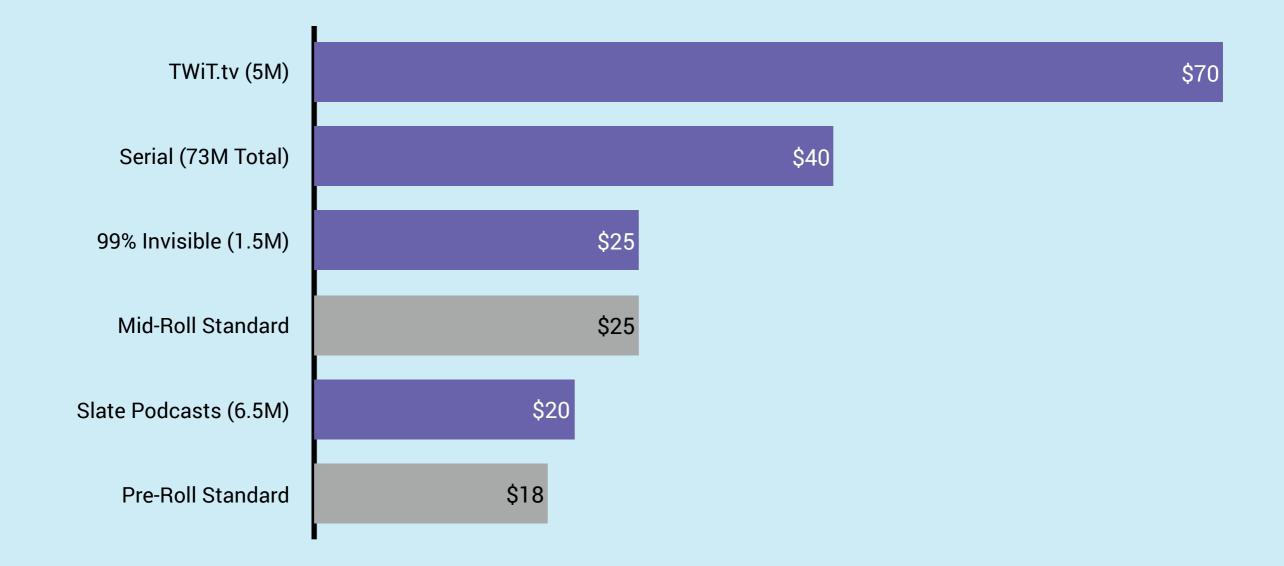
Podcast listeners are the elite of audio: they listen to more nonpodcast audio than average, and are an attractive demographic



Early successes are showing podcast publishers can generate premium advertising rates







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





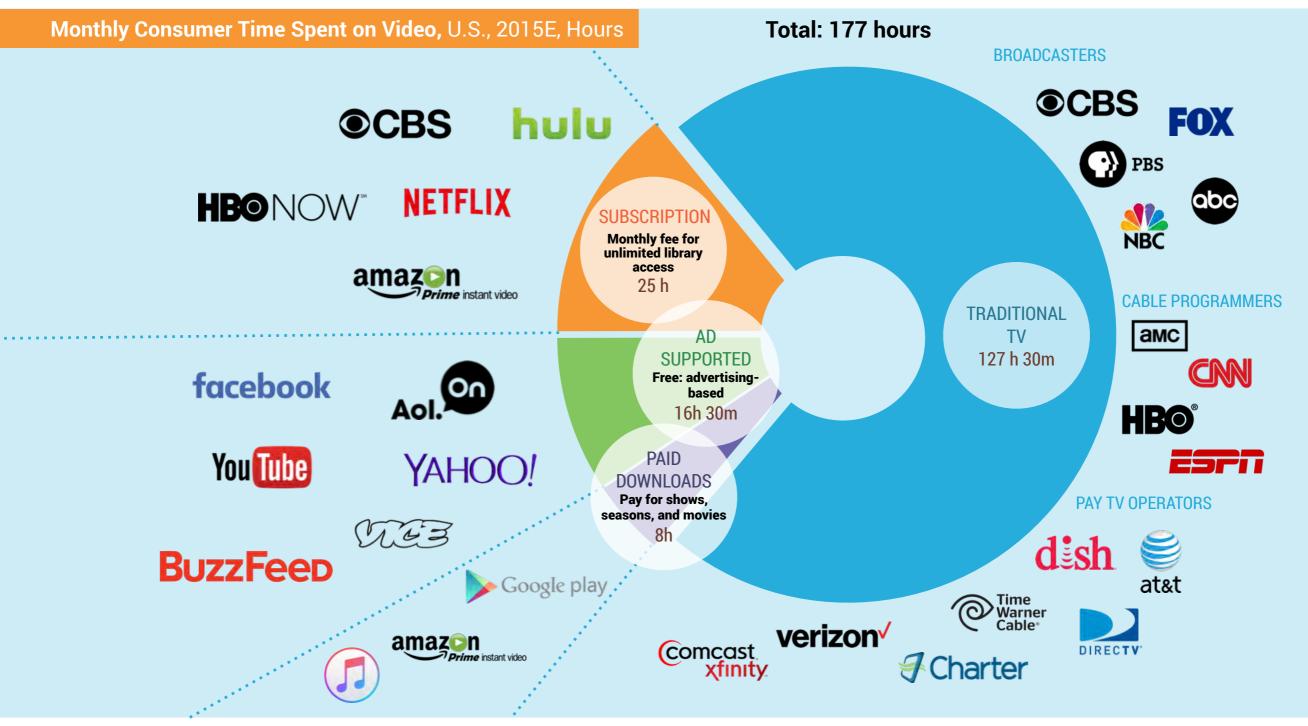




THE AVERAGE AMERICAN SPENDS MORE TIME ON TECH & MEDIA THAN WORK OR SLEEP MESSAGING WILL BLOW PAST SOCIAL NETWORKS AS THE DOMINANT MEDIA ACTIVITY THE NEXT BIG WINNERS IN STREAMING AUDIO ARE ALREADY (QUIETLY) HERE THE LONG-AWAITED CORD CUTTING MOMENT IS STILL FAR OFF THERE IS A "CABLE KILLER" COMING, BUT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

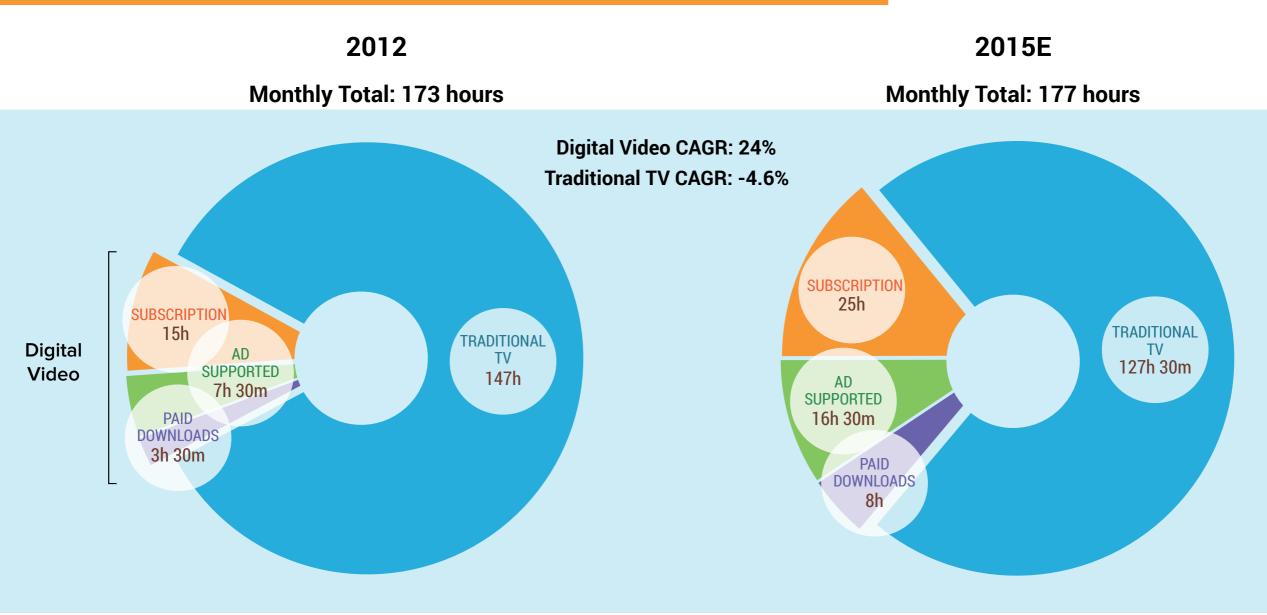
ONE SIMPLE WAY TO PREDICT WHAT TECH & MEDIA PLAYERS WILL DO NEXT TO COMPETE

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



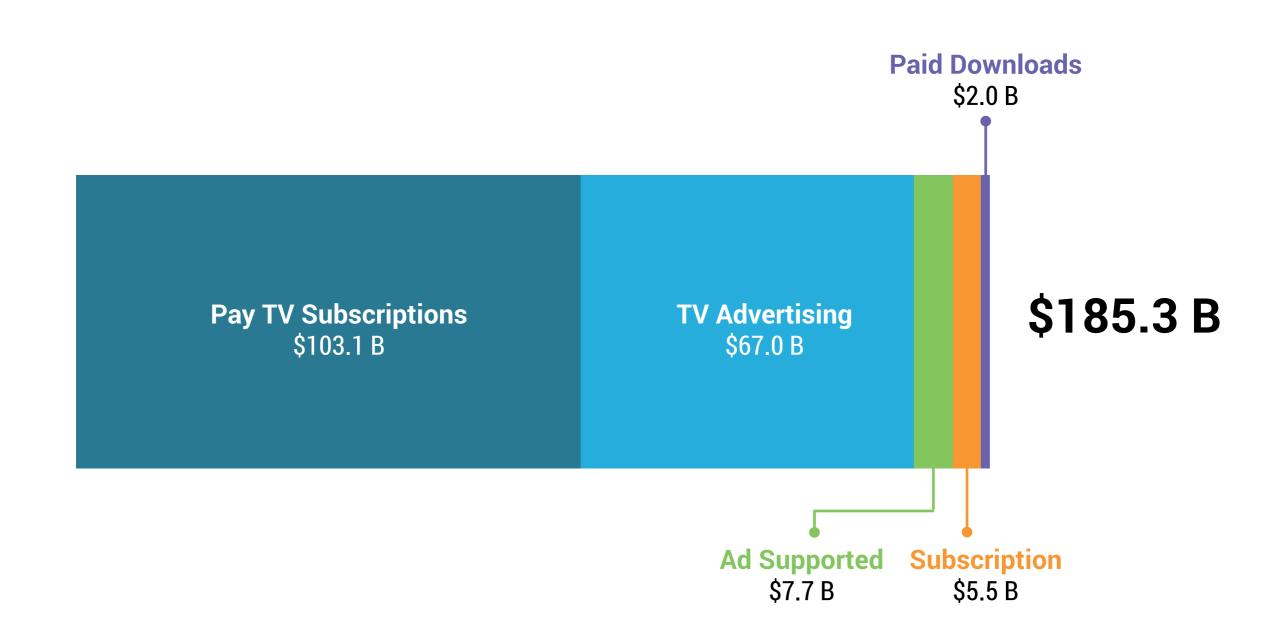
What's at stake in video? Nearly six hours a day of viewing time, making video the single most popular media activity

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



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

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



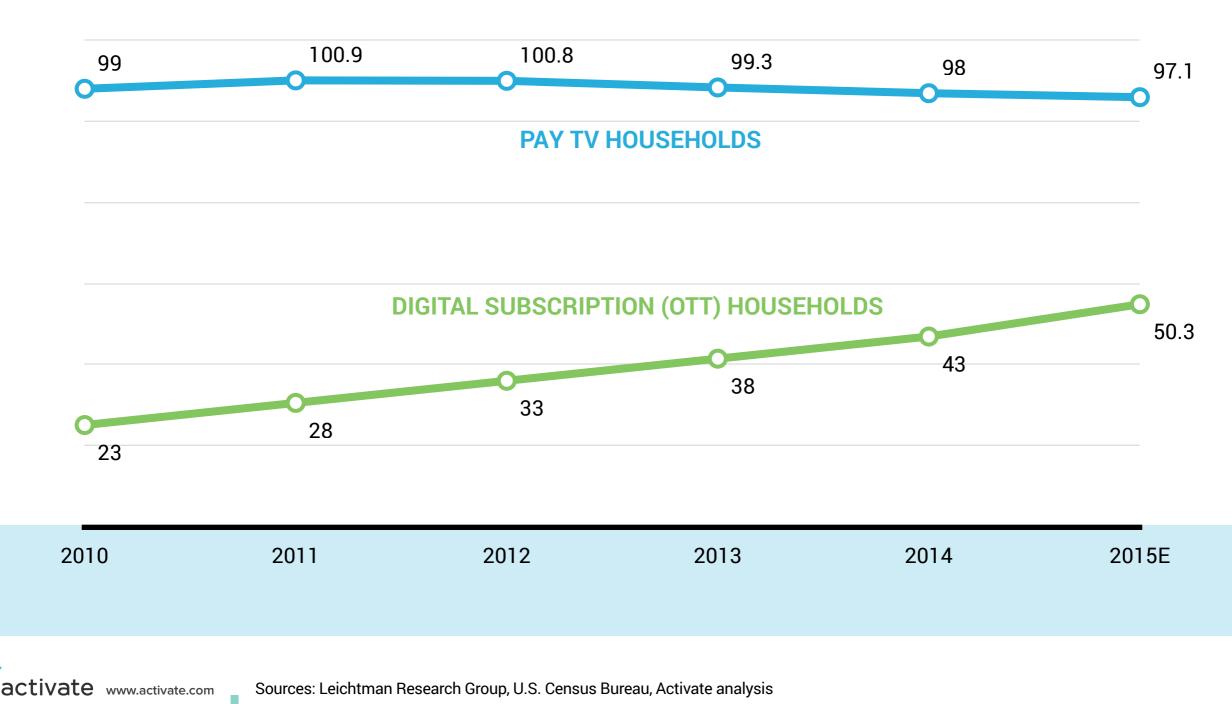
SO, IS IT TRUE THAT "THE FUTURE OF TV IS APPS"?

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.



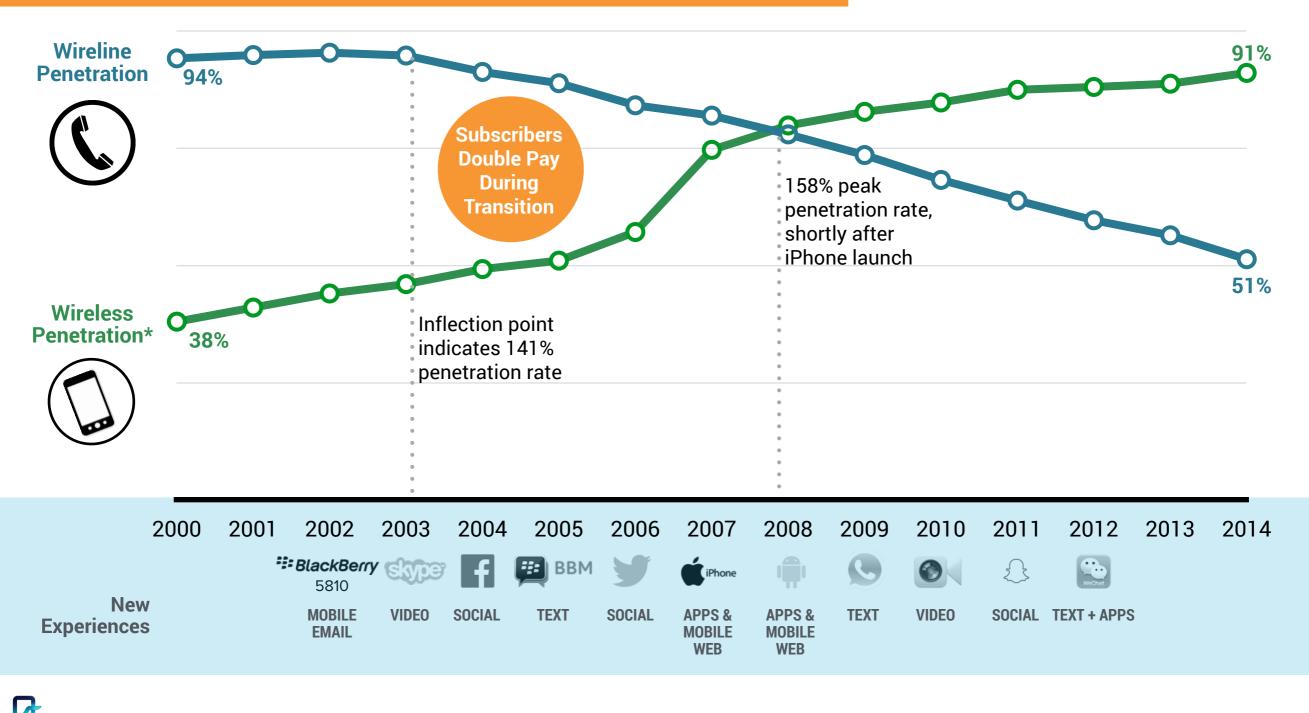
We appear to have hit "peak cable," with pay TV providers shedding subscribers while digital subscription (OTT) services gain ground

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



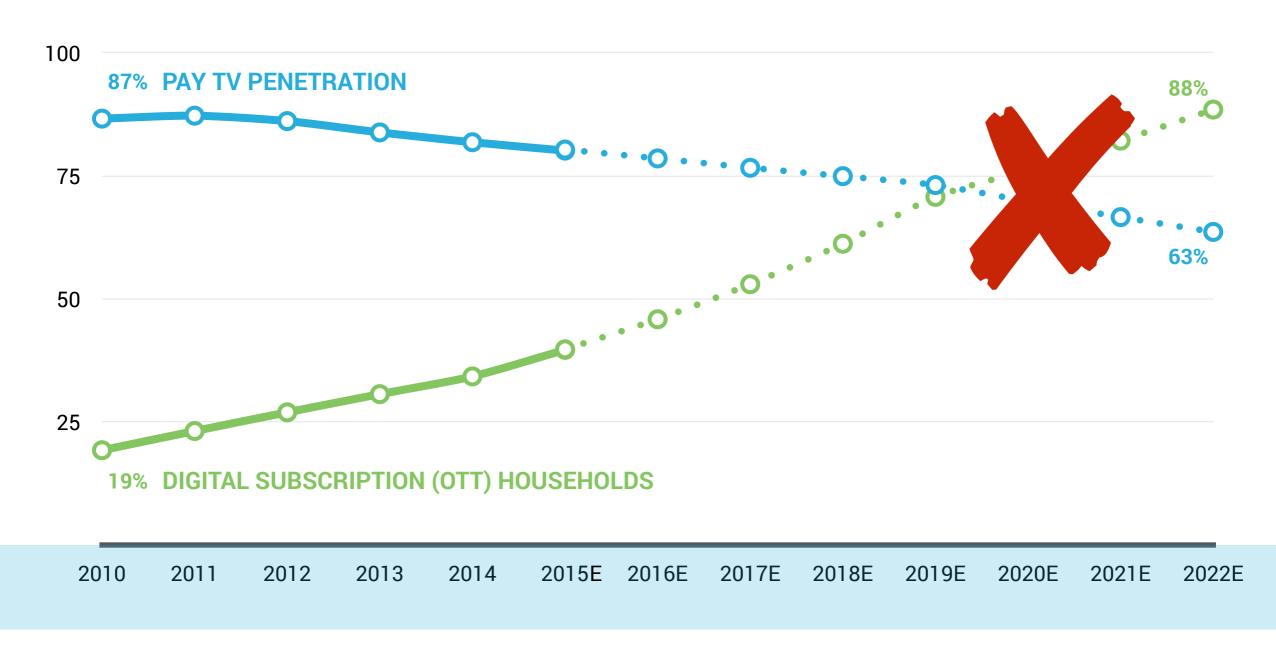
A major platform transition, such as cutting the cord for telephones, can take more than a decade to play out

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

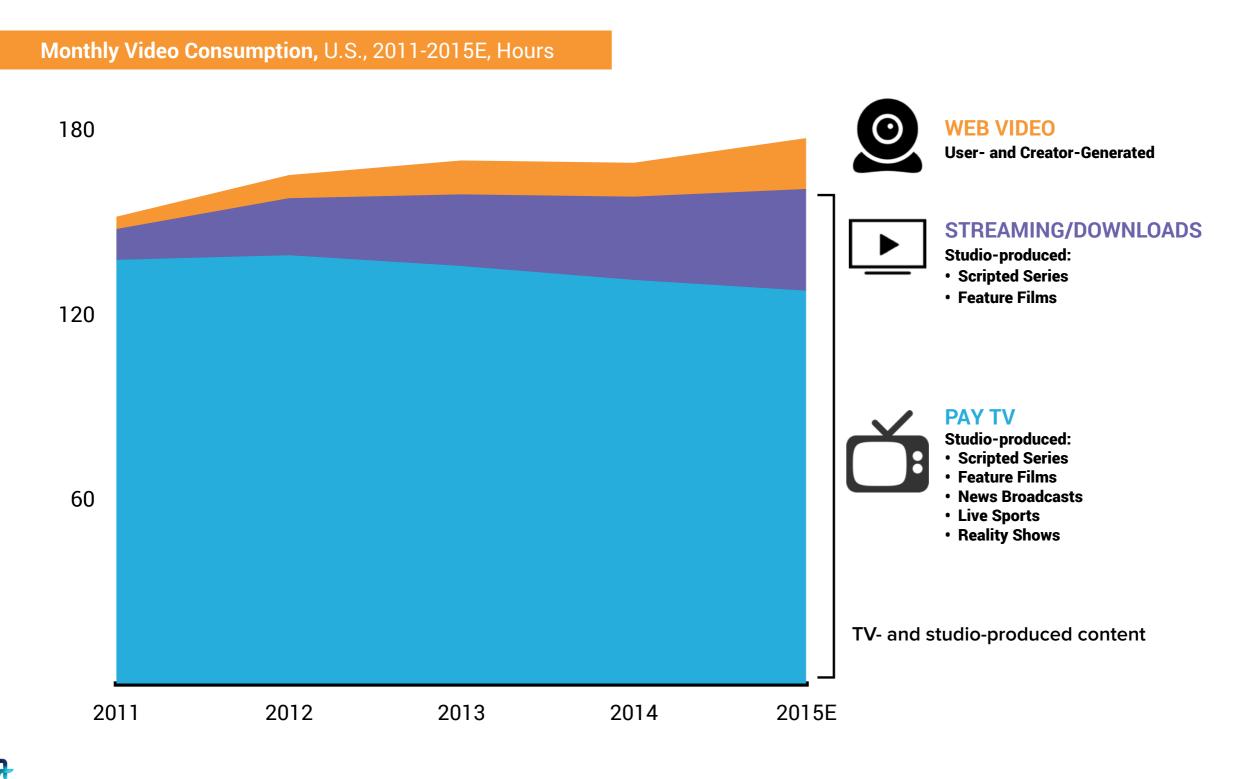


EXPERIENCE:

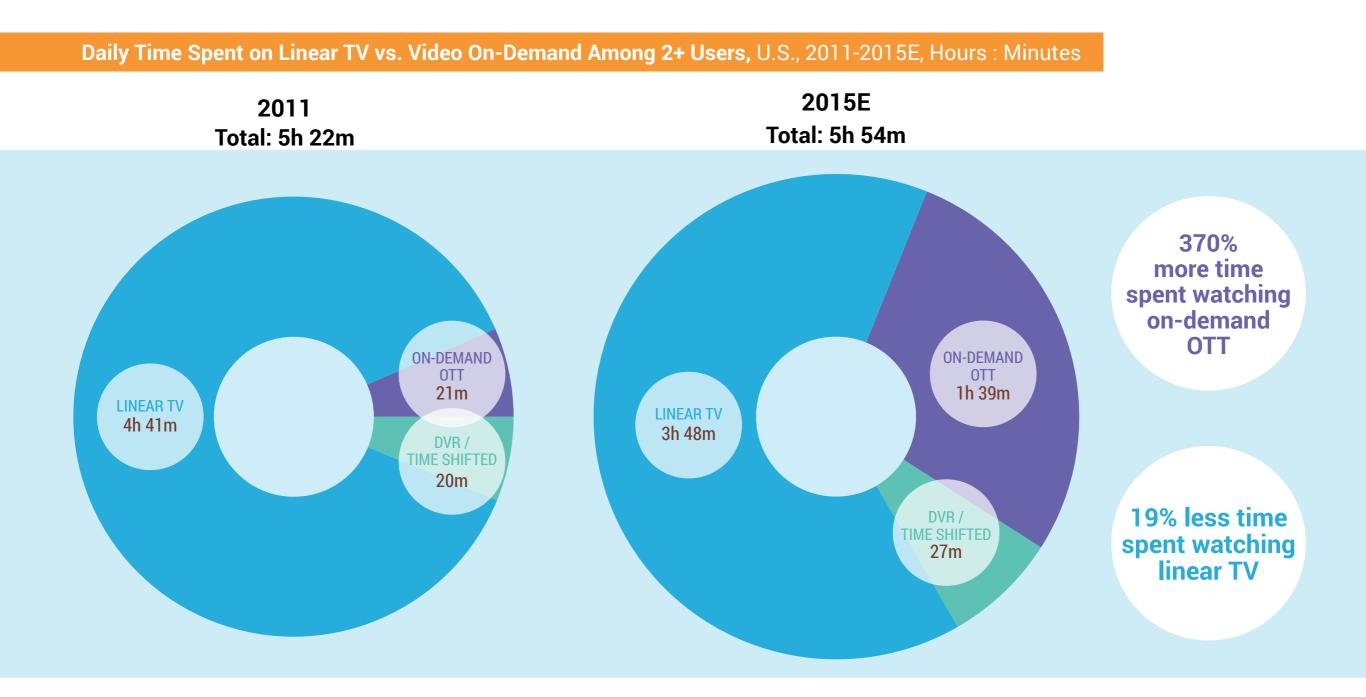
Today, traditional pay TV still wins for simplicity and reliability. Digital offers more power, control and discoverability, but also more complexity



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



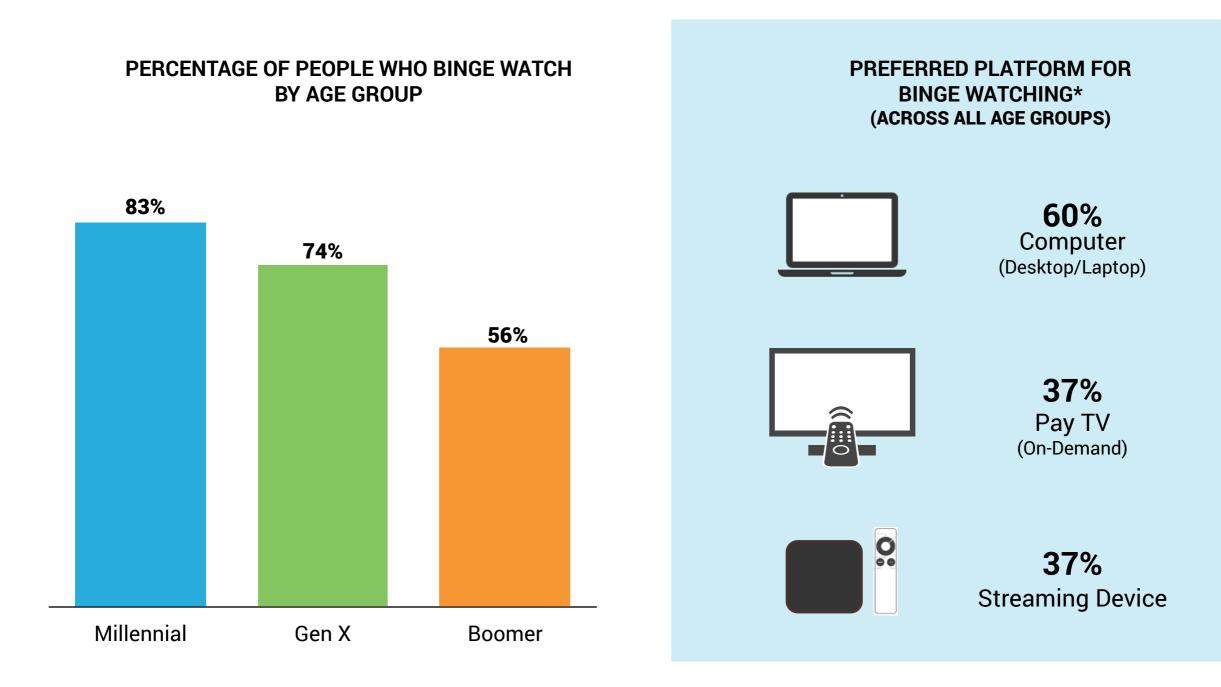
On-demand and time-shifted viewing is growing quickly, as viewers watch more and more TV on digital platforms





Sources: Nielsen's 2015 Total Audience Report and 2011 Cross-Platform Report, Sandvine, WSJ, Financial Times, The Guardian, Automated Insights, Activate analysis. Video on-demand includes multimedia devices, video watched on PC, video watched on mobile. Average of all age brackets 2+.

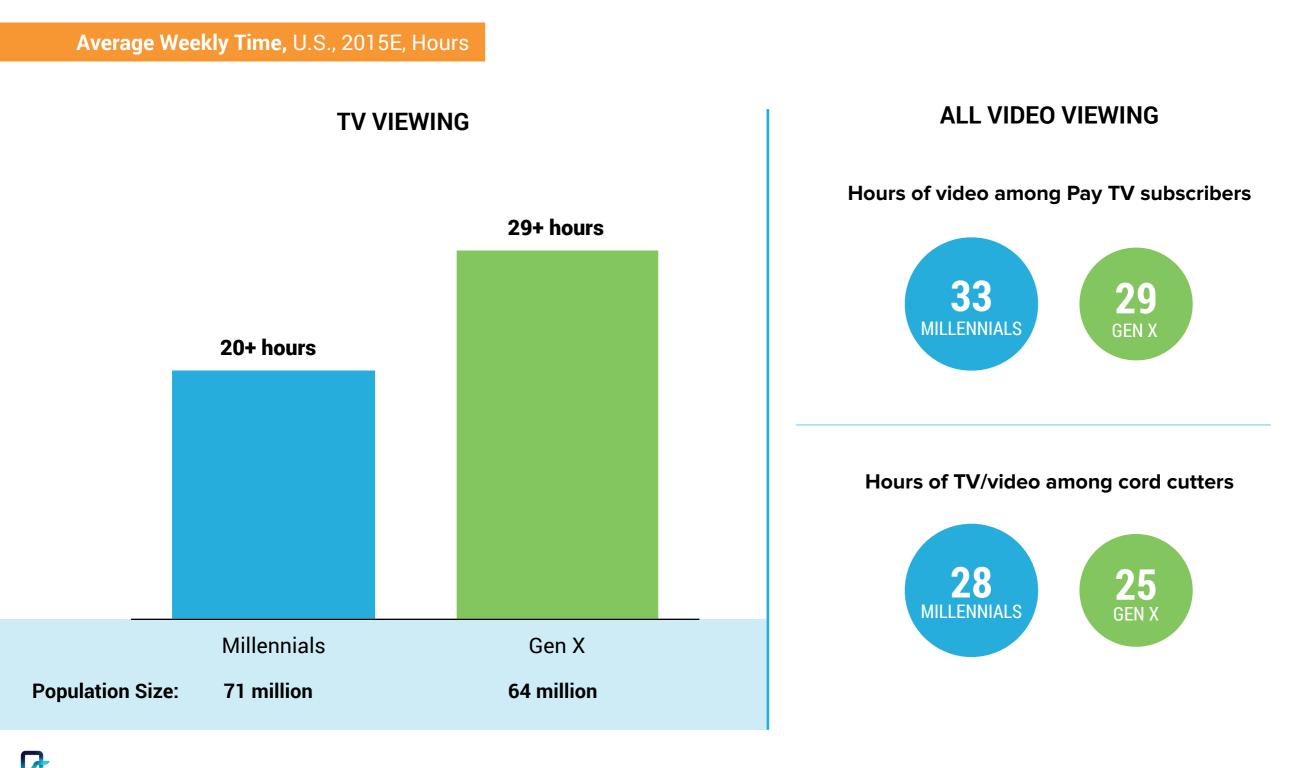
Most Americans now binge watch TV, and this behavior is amplifying time-shifted viewing





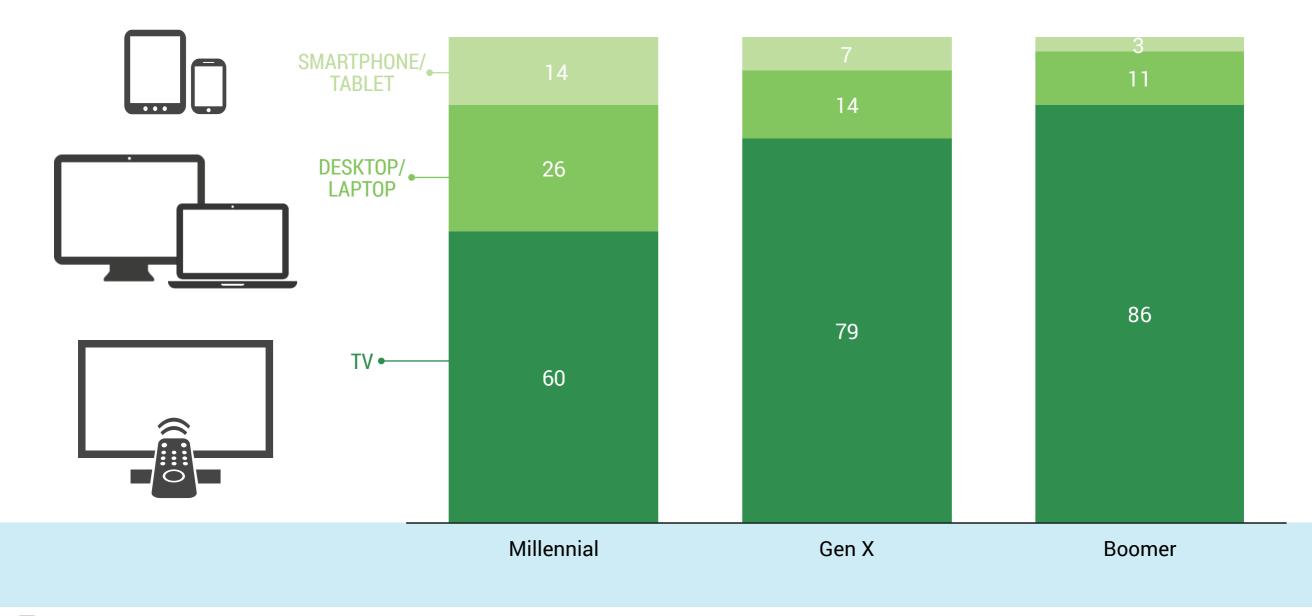
Sources: Conviva, Deloitte, Activate analysis. Adds to more than 100% due to multiple preferred platforms. *"Binge watching" defined as viewing three or more TV episodes in one sitting.

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

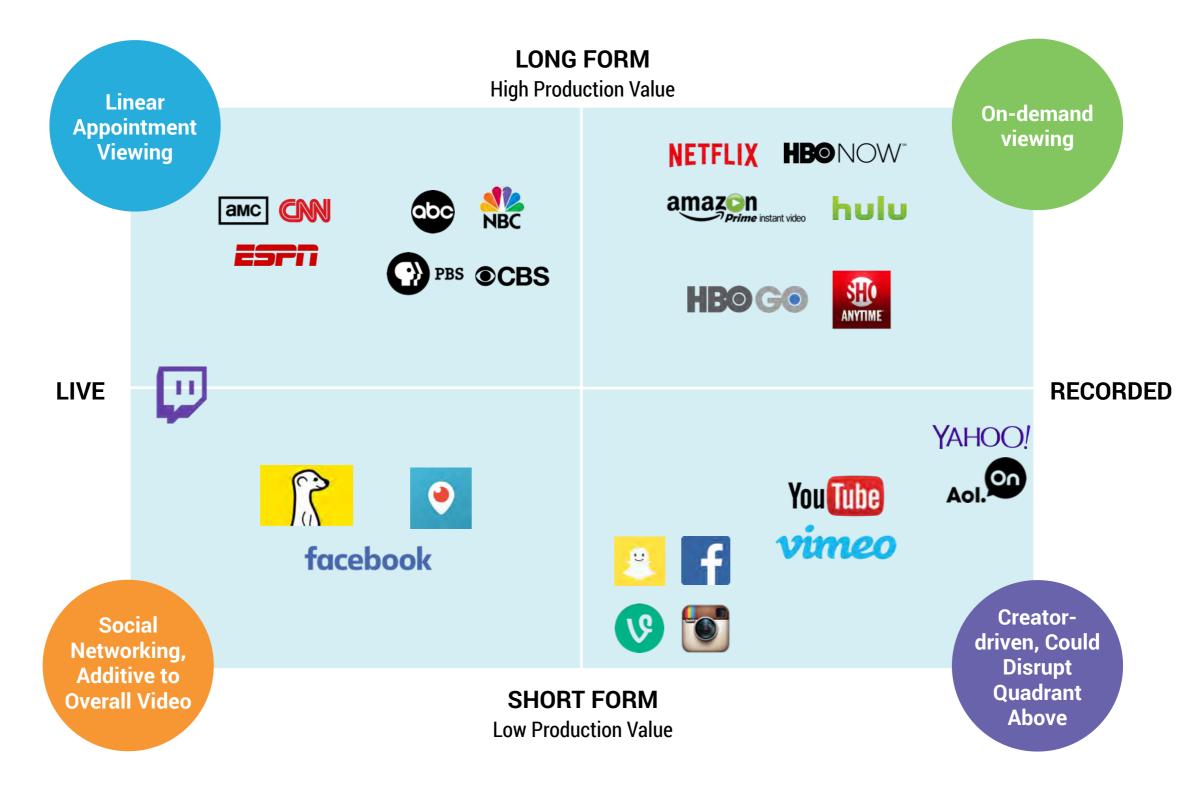


All adult age groups, including Millennials, like to watch high-quality video on large screens

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



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

•	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

*Percentages refer to regular season games only

**Most markets; some smaller markets have select games on broadcast

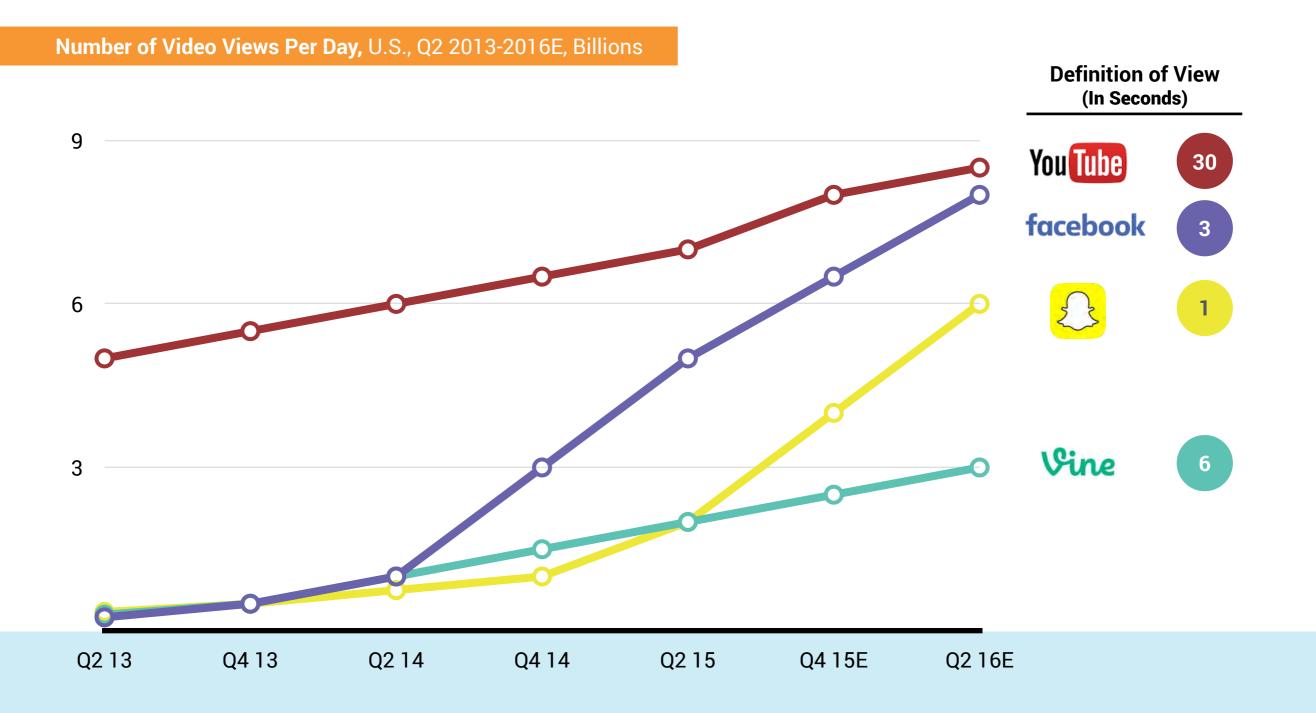
Sources: Deadspin, NBA, NFL, MLB, NHL, ESPN, Activate analysis. NCAA refers to football only; live post season games not available OTT (authenticated only).

activate www.activate.com

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

	HBO®	H •WTIME	Cable Programming		Sports	
Current Season OTT Availability	HBO NOW [®]		Not Available		Not Available**	
	GAME OF THRONES	HOMELAND		AMERICAN PICKERS		
	HARDS KROCEKS TRAINING CAMP WITH THE NOUSTON TERAMS	RAY Donovan	American Horror Story	DUCK	HURSDA NIGHT	
	ballers	PENNY DREADFUL	GOLD-RISH	PAYN	MONDAY NIGHT FOOTBALL	
	SILICON VALLEY	MASTERS OF	MR. ROBOT	Forgo	NCAA.	
	VEEP	NURSE JACKIE	Kardashians.	LIBRARIANS	BORT CLAMPIONSKIP SKIELS	

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



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





BuzzFeed

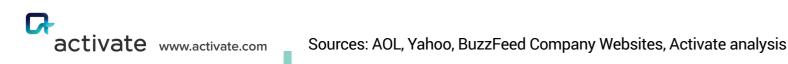
On-demand streaming service for TV shows, movies, and webisodes

- 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

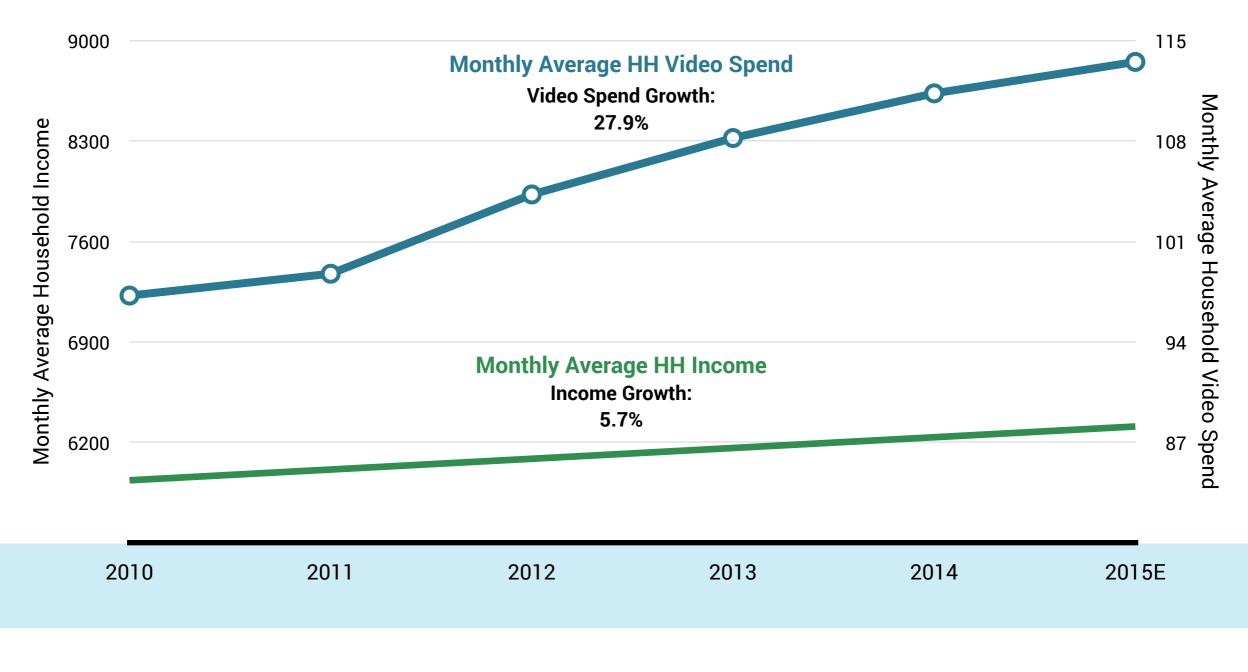
- Library includes 10 original series and over 700 original short videos
- Distribution includes a YouTube Channel with 7.8M subscribers





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

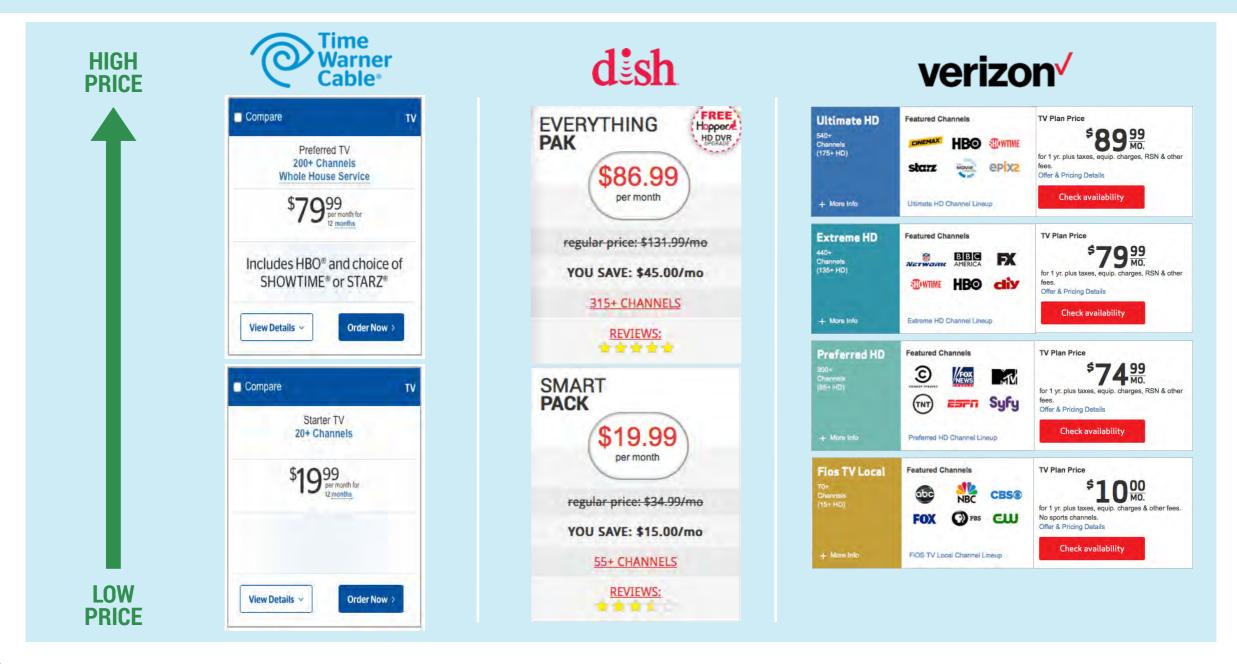


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Even if an OTT offering can be competitively priced, Pay TV operators have flexibility to vary pricing and packaging

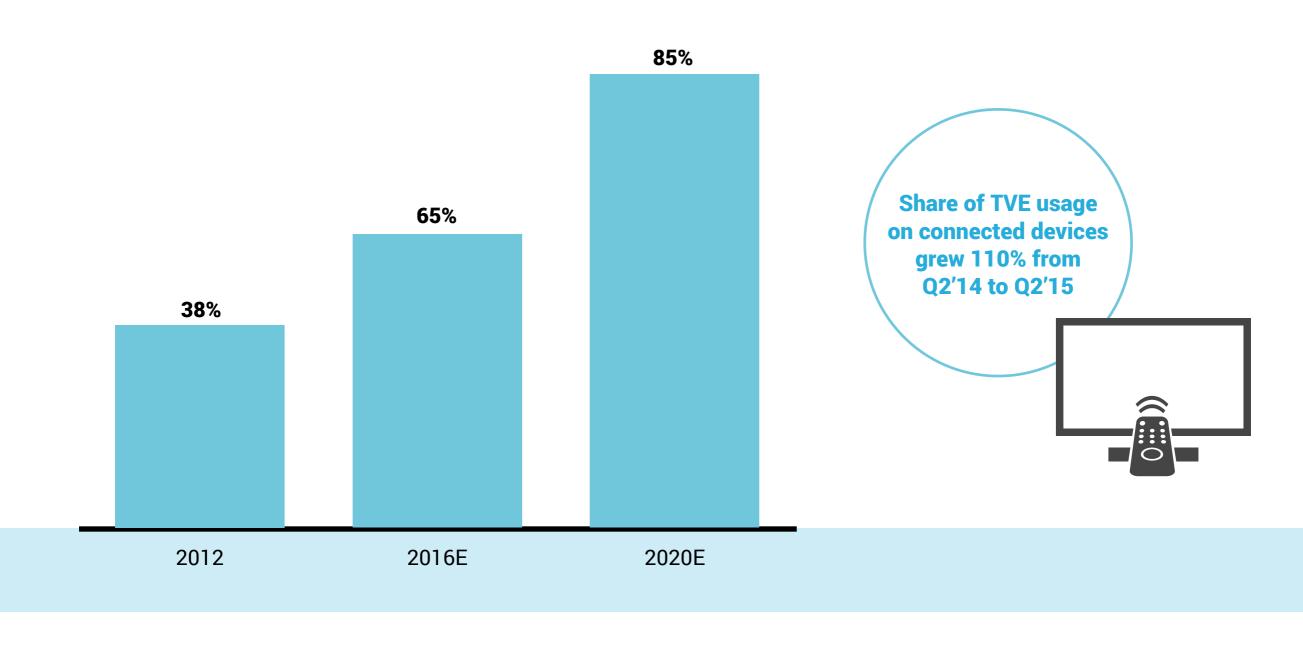
Video Pricing Examples from Select Providers, U.S., 2015E, USD

TRADITIONAL PAY TV



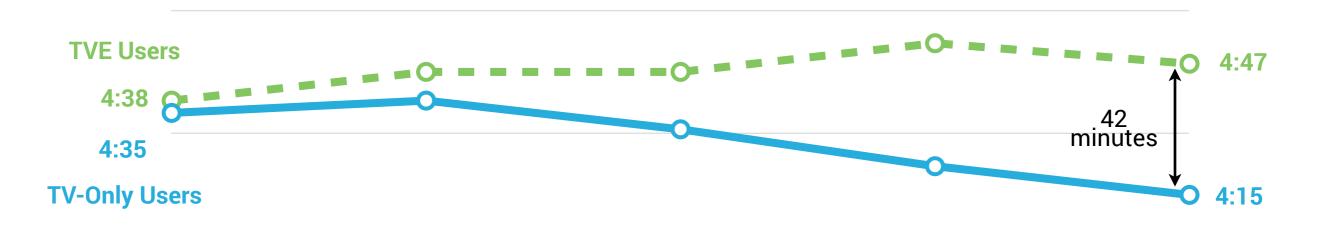
More streaming devices are enabling homes to view digital streaming as well as TV Everywhere on large screens

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
activate www.activate.com	Sources: Adobe Digital Index, eMarket	er, comScore, Nielsen, Viacom, Acti	vate analysis	

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

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

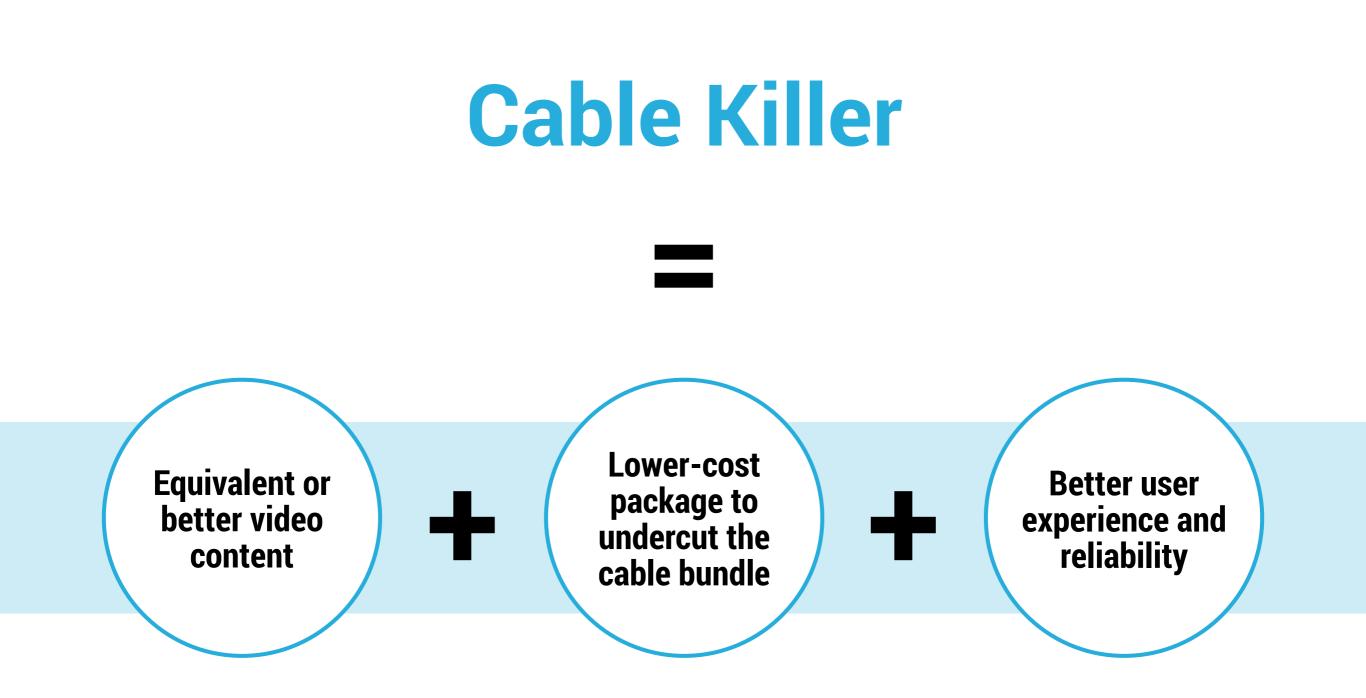
THERE IS A "CABLE KILLER" COMING, BUT IT WON'T LOOK LIKE YOU EXPECT

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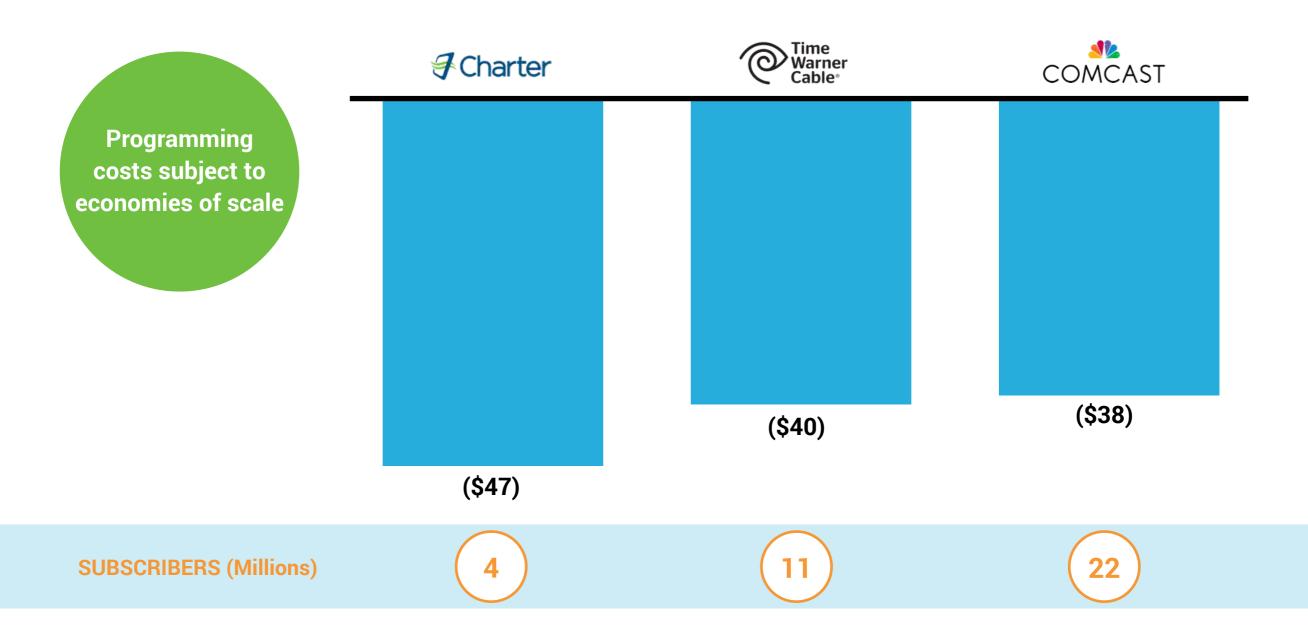


FOR A NEW PLAYER TO CREATE A POTENTIAL 'CABLE KILLER', THEY WOULD HAVE TO START BY LICENSING TOP-TIER CONTENT



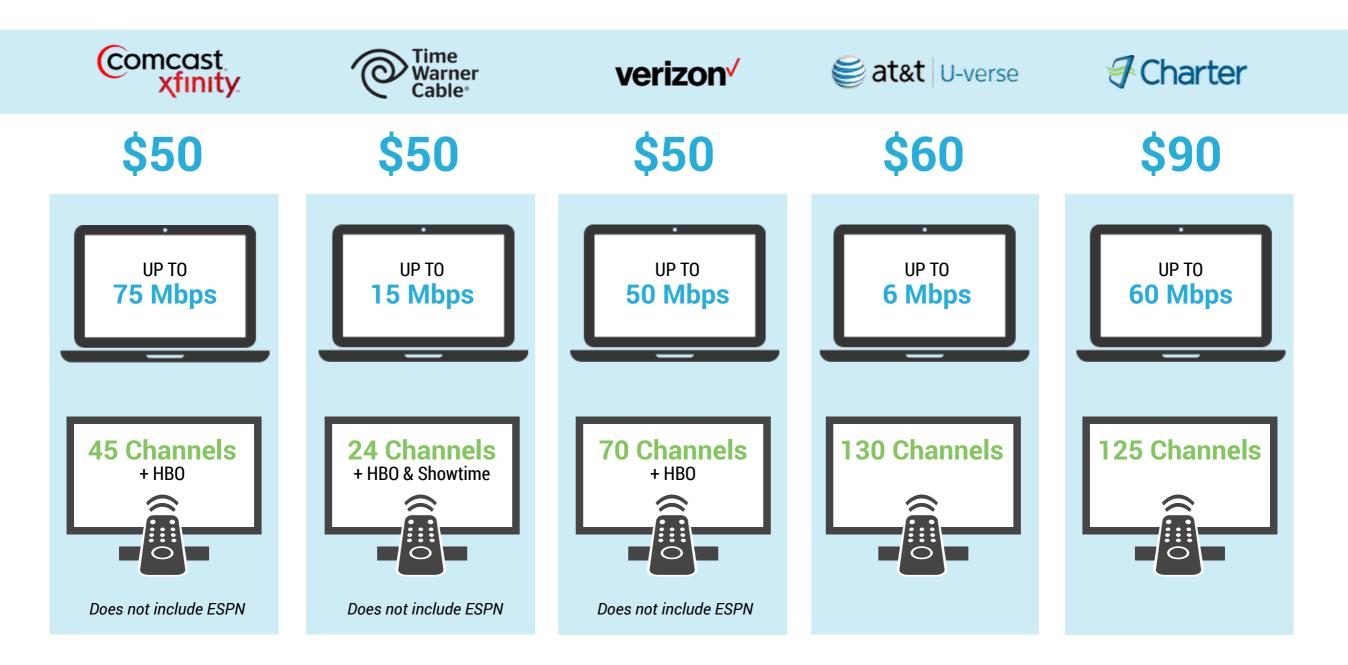
Today's cable operators have a huge advantage: the biggest players pay the lowest cost per subscriber for content; far lower than a new entrant could pay

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

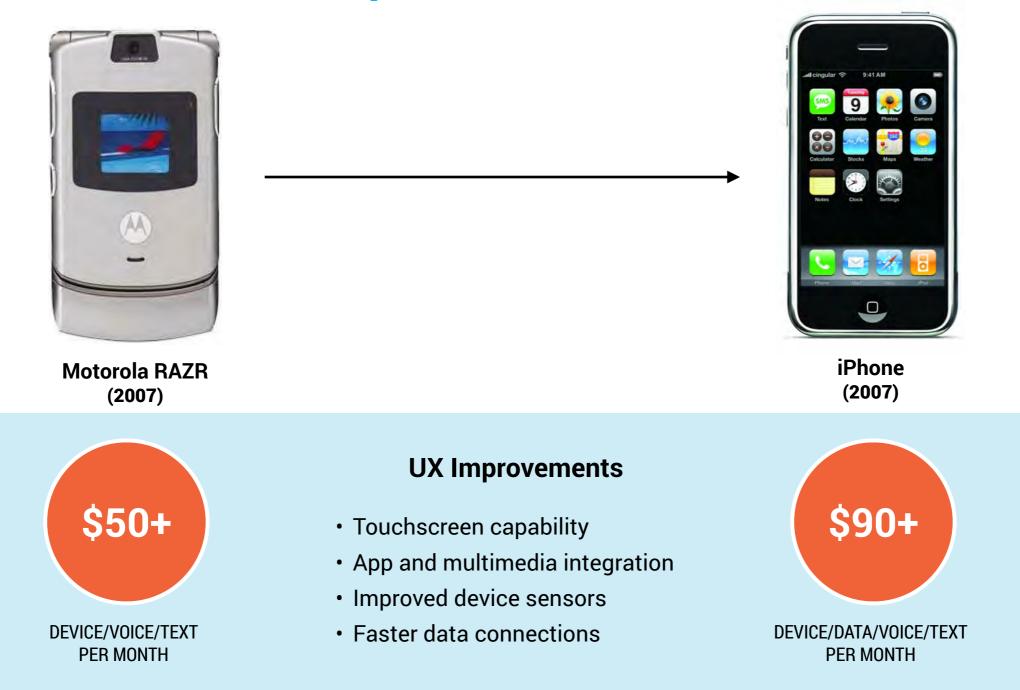


A potential 'cable killer' cannot easily compete with cable's broadband bundling advantage

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



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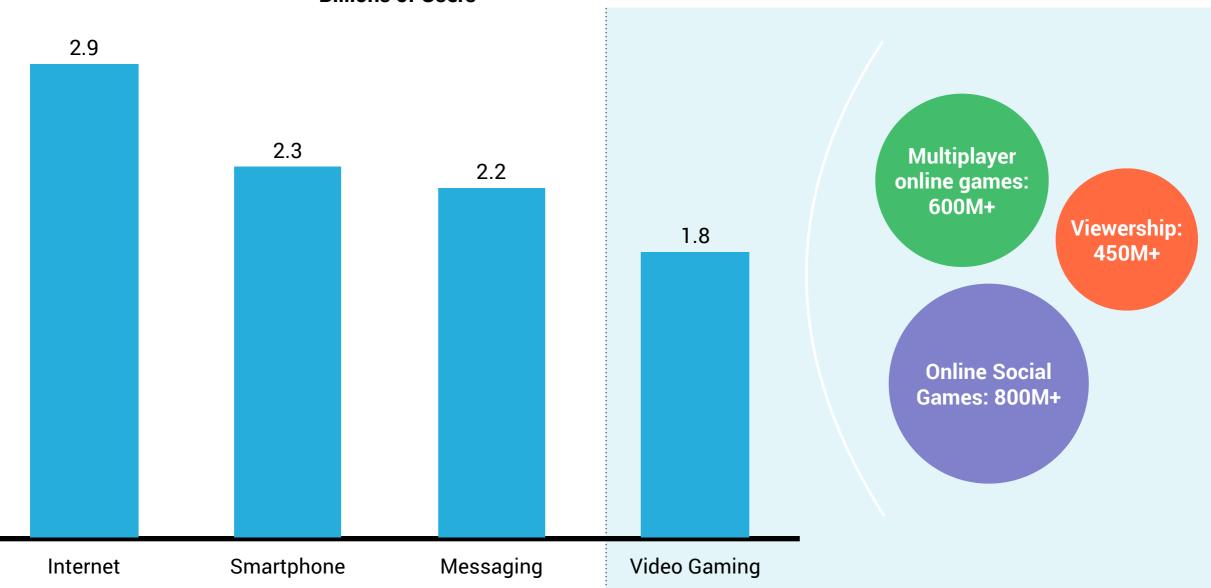
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Video gaming is one of the most widespread consumer behaviors with ~2 Billion highly networked and connected users worldwide – and growing

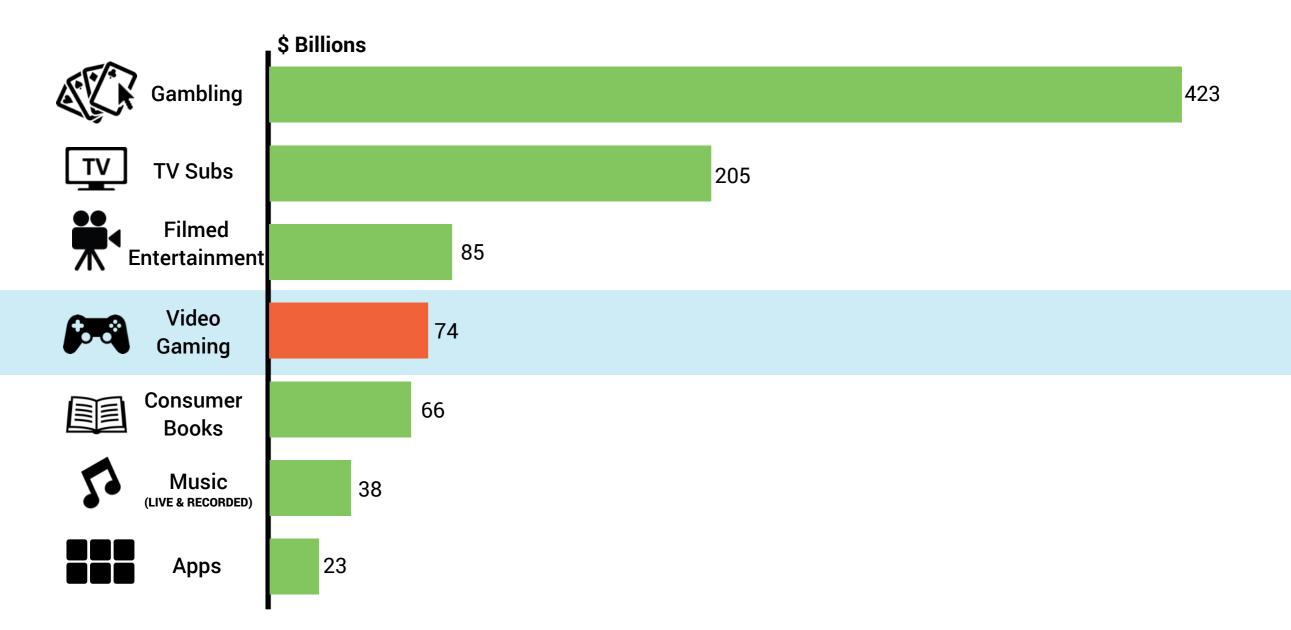
Number of Users by Tech Platform, Global, 2014



Billions of Users

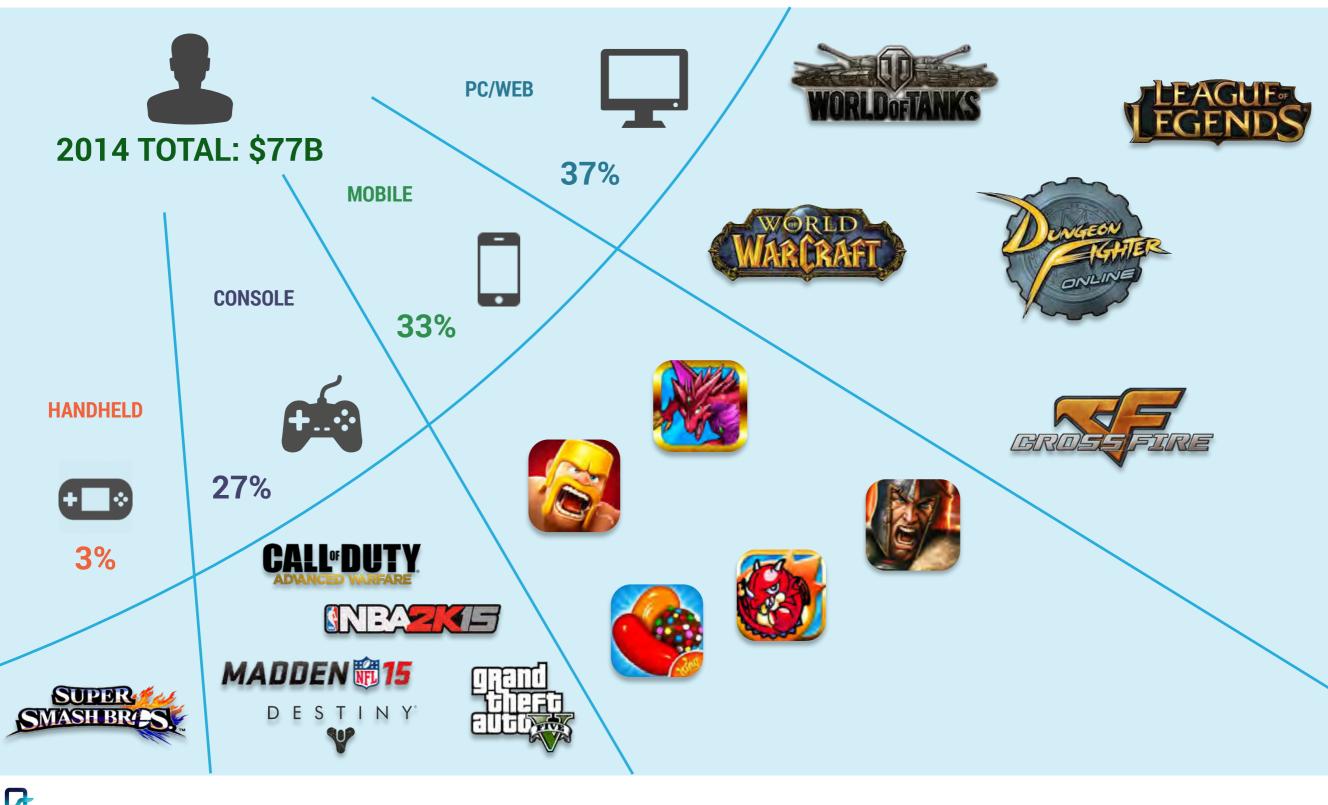
Global spend of \$74 Billion is likely to expand as video gaming broadens to include advertising and gambling streams

Consumer Spend on Major Entertainment Segments, Global, 2014



Sources: IBISWorld, IFPI, McKinsey & Company, Morgan Stanley, NewZoo, PwC, SuperData Research, Activate analysis. Filmed entertainment includes all ancillary revenue; apps comprise Apple and Google Play and include gaming apps

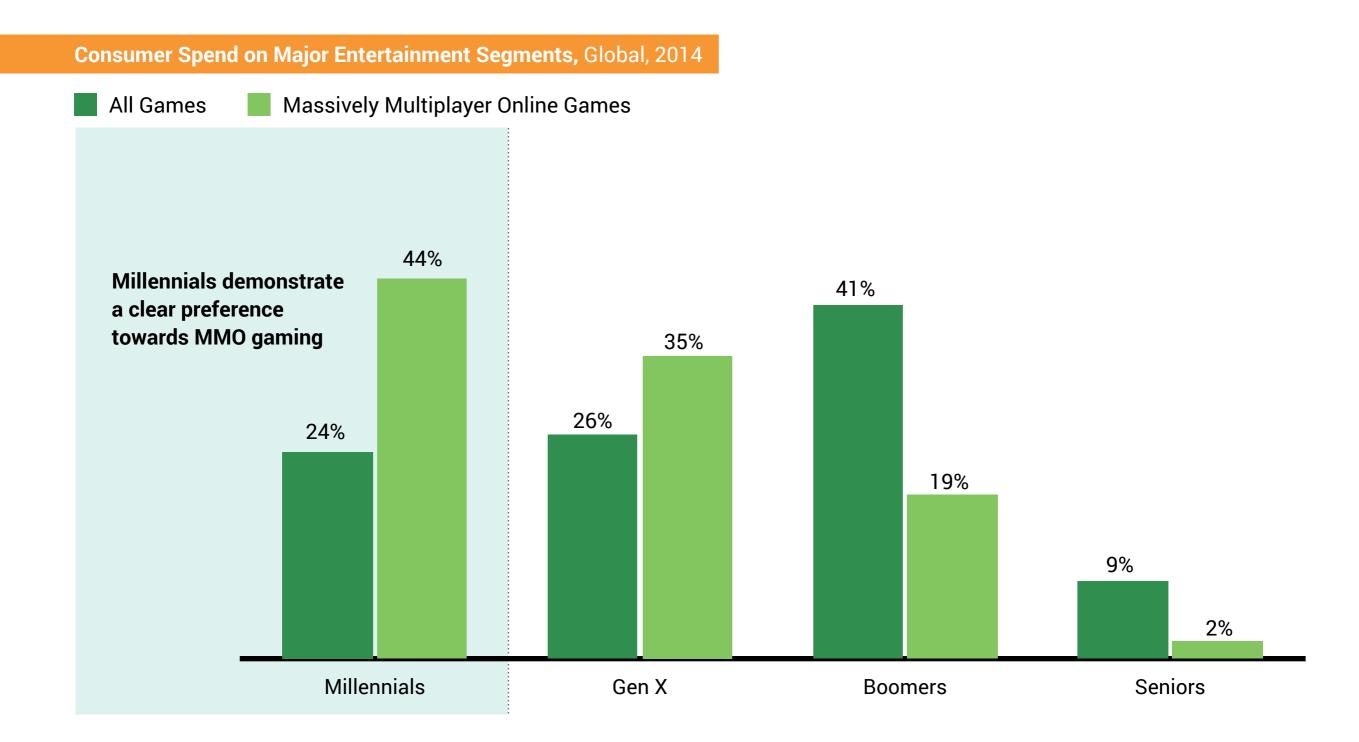
PC/Web is the leading video gaming platform by revenues, with mobile as a close second



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

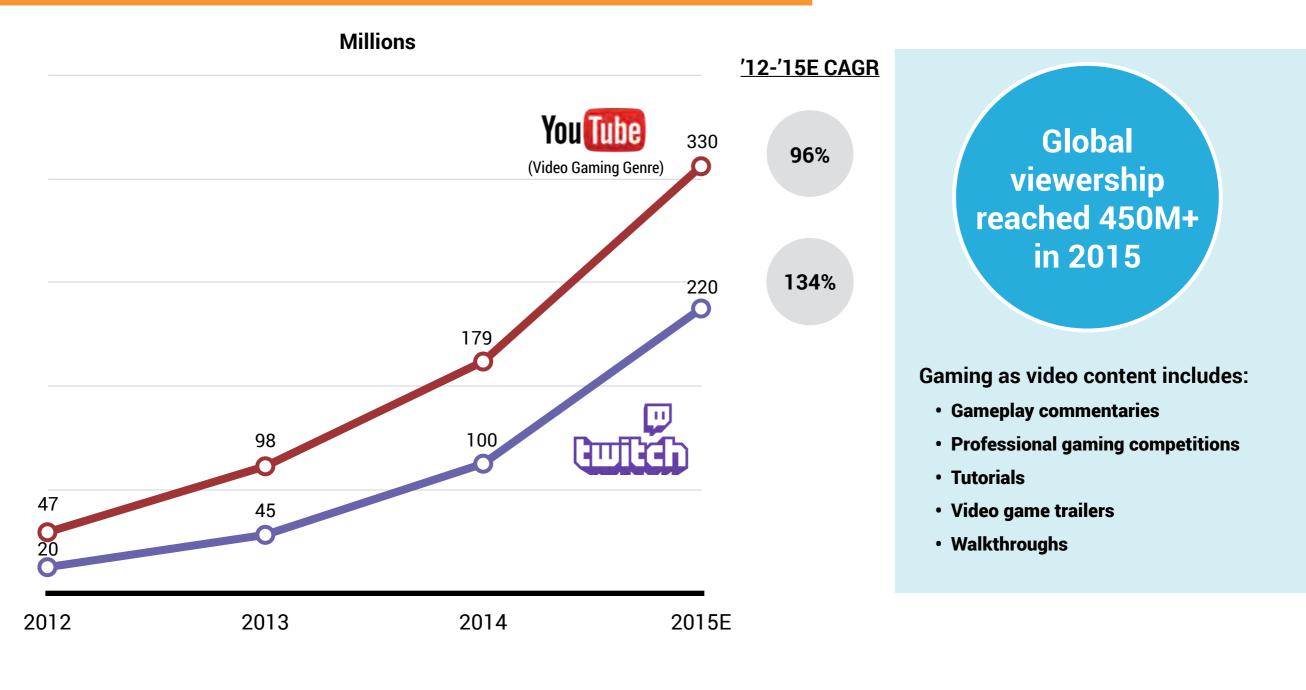
Most Popular Games by Platform	n		Online Multiplayer
PC/Web	Mobile	Console	Handheld
LEAGUE: LEGENDS	CLASSIC	CALL" DUTY. Advanced warfare	SUPER SMASH BROS
WORLDOFTANKS	CERCIS	FIFA 15	CONSTRUCT CONSTRUCTION CONSTRUCTION CONSTRUCTION
NDOTA 2	PUZZLE & DRAGONS	DESTINY°	MARIOKAR

The growth of multiplayer gaming will be driven by Millennials



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



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

Metrics for the Top 15 You Dideo Gaming Channels* **SUBSCRIBERS AVERAGE VIEW VIDEO VIEWS** 165 Million PER VIDEO (~11M PER CHANNEL) 2015E Growth: +20% **47 Billion** (~3B+ PER CHANNEL) 1.3 Million 2015E Growth: +40% 2015E Growth: +30% Top 5 FALLENLEY **Channels: PewDiePie** VanossGaming elrubiusOMG **SkyDoesMinecraft** JuegaGerman

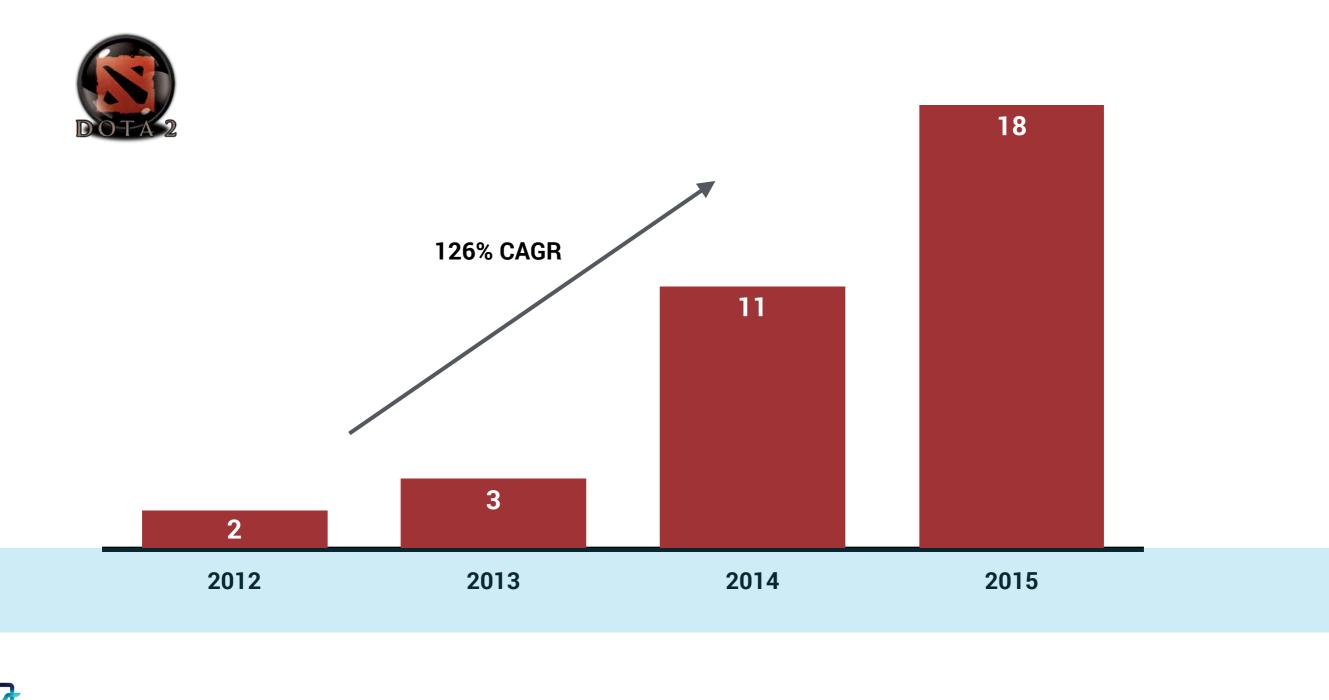
Organized multiplayer video game competitions are emerging as a formidable spectator sport: eSports

Examples of Major eSports Tournaments



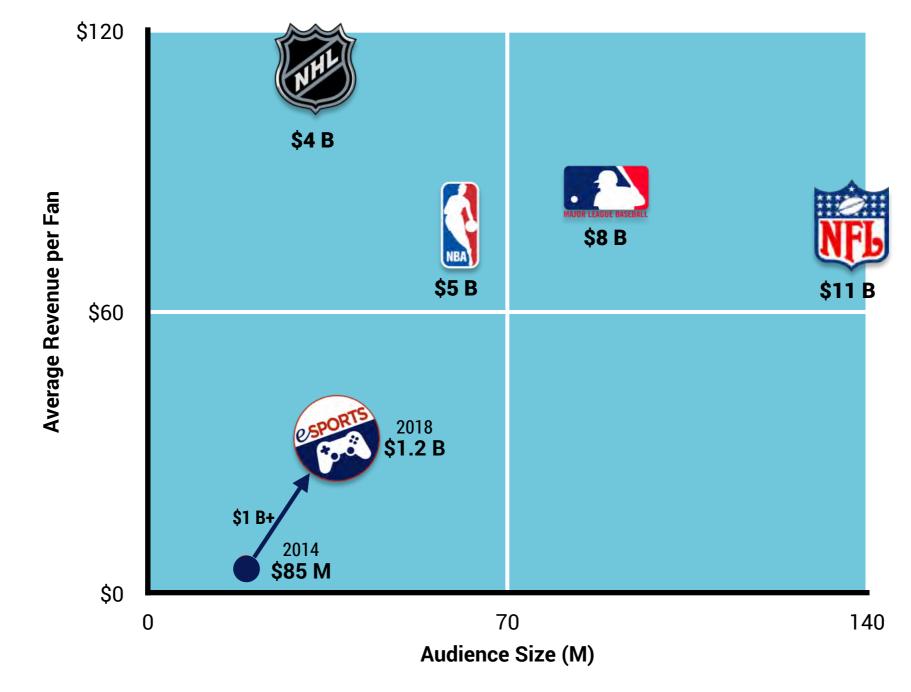
Growth in tournament prize pools - which are largely crowdfunded by fans - illustrates potential of eSports

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

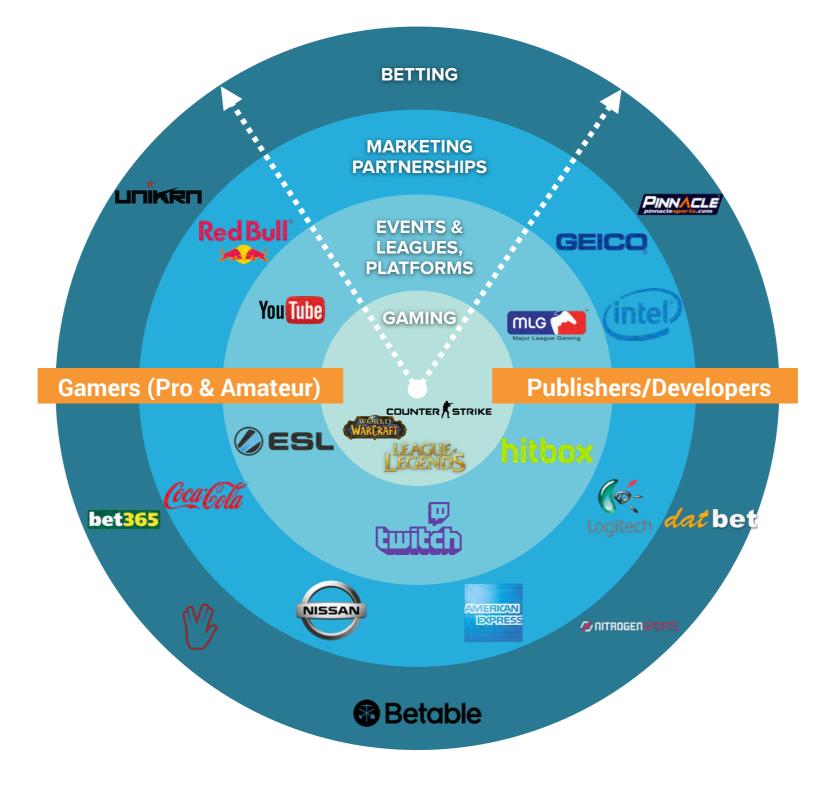
Activate Forecast for eSports, U.S., 2018E



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

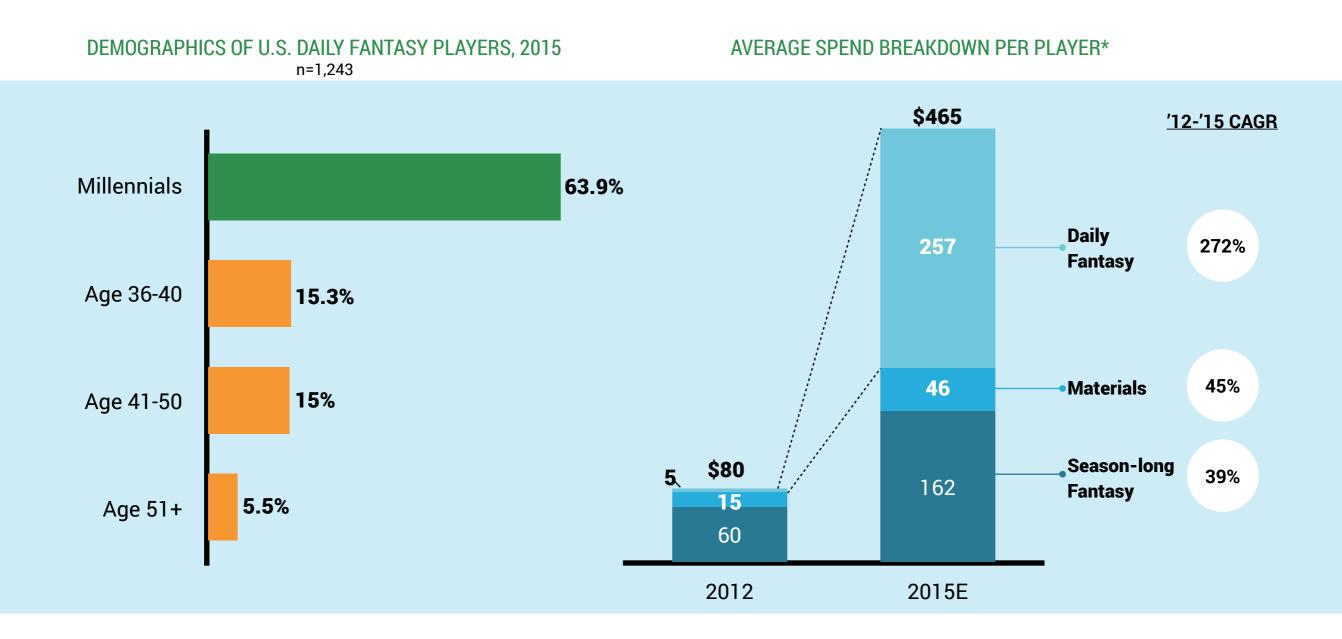
First person and spectator mainly on online multiplayer games, eSPORTS EVENTS



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

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

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



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



AQUIRE & CONTRIBUTE



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

PREDICT & EARN

QUALIFIER PREDICTIONS

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 p

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

Correctly making predictions earns points

3

BE REWARDED

EXAMPLE: The Immortal Chest



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

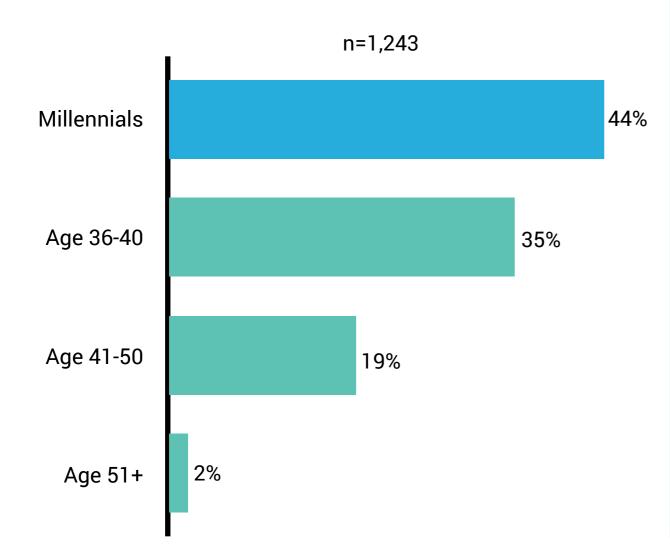
WAGERING ALTERNATIVE

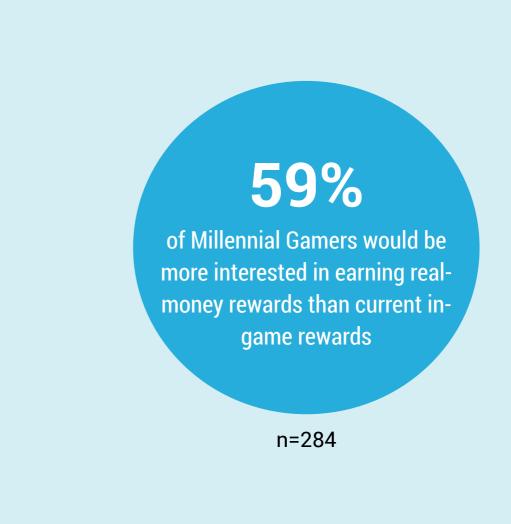
Use real money for increased transparency and engagement

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 FACEST GAMING PLATFORM

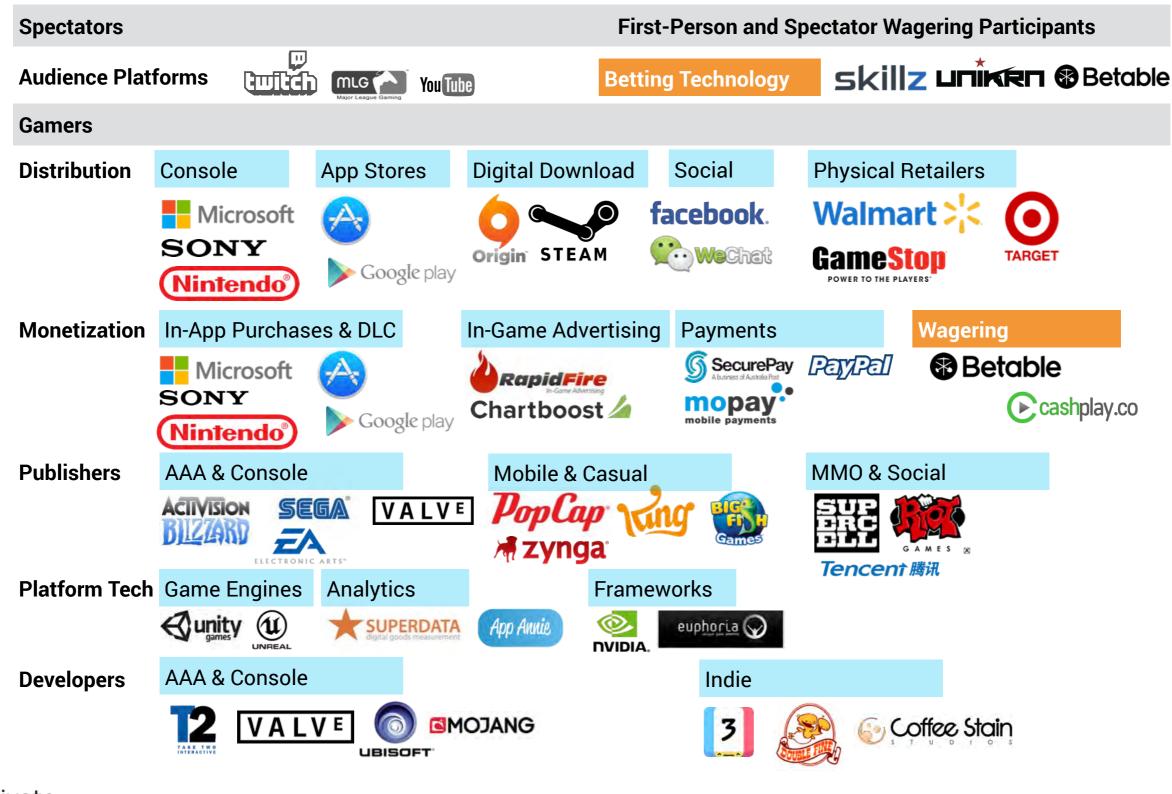
REGISTER	PARTICIPATE	PLAY TO WIN	CLAIM REWARDS
 Enter game profile information Automatic verification of information 	 Join tournaments or ladder matches for free Join specific competitions based on skill level 	 Platform automatically verifies results Awards victory to winning player 	 Winners collect FACEIT points Use points in FACEIT store to redeem prizes
 Platform updates profile based on player statistics 	TOURNALL	PLCCUT @	
Constant Const	TBD		

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

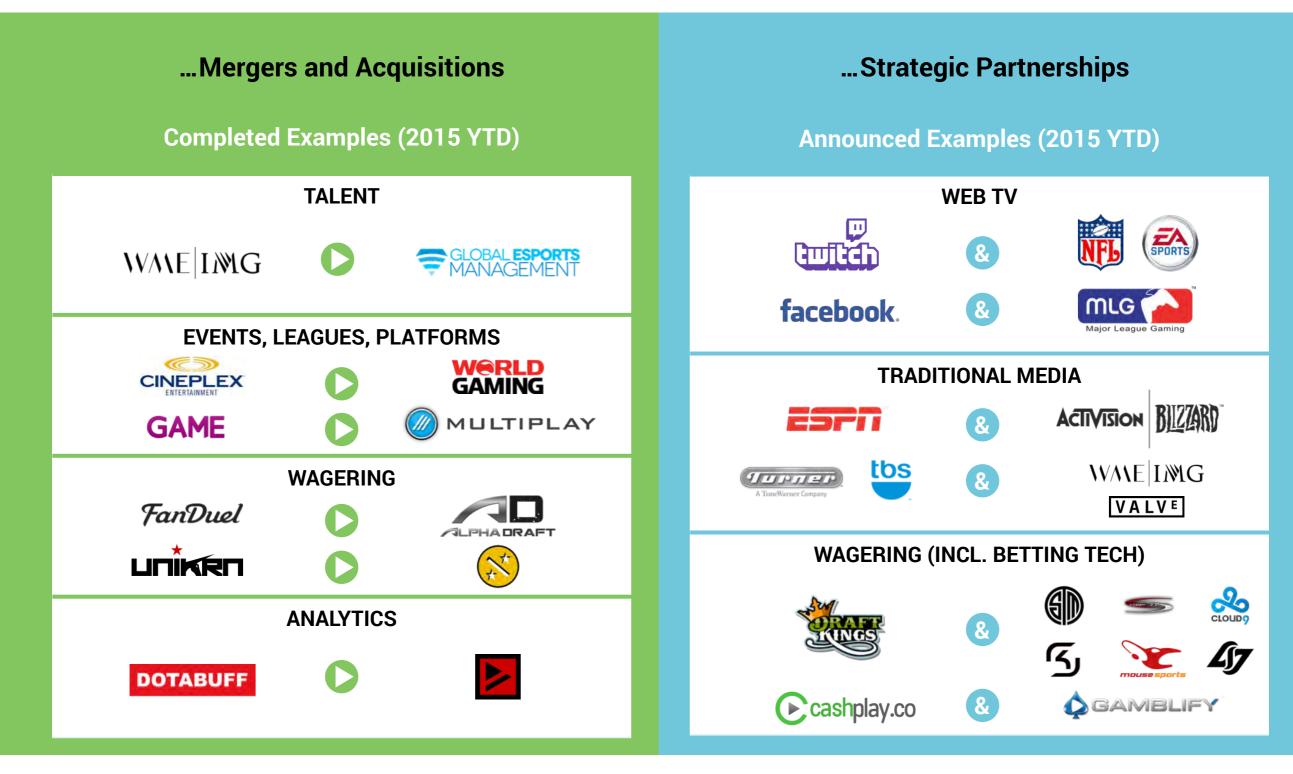
Examples of Popular MMO Games by Type

Massively Multiplayer Online Games									
Battle Arena (MOBA)	First Person Shooter (MMOFPS)	Role-Playing Game (MMORPG)	Strategy Games						
LEAGUE - LEGENDS		WARCRAFT	CLASSO						
DOTA 2	TEAM FORTRESS 2	HEROES OF WARCRAFT	BEACH						
OF THE STORM	CALL [®] DUTY. Advanced warfare	LINEEAGE)	STAR						
BATTLEGROUND OF THE GODS	DESTINY [°]	A REALM REBORN	GAME OF WAR						

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...



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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



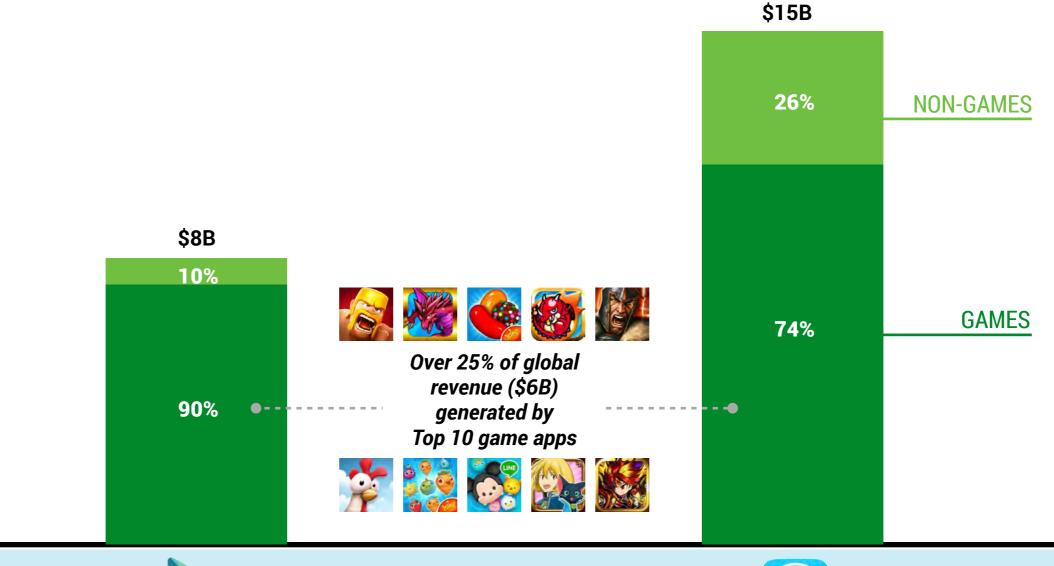
THE DREAM OF THE INDEPENDENT DEVELOPER BUILDING A BUSINESS IN THE APP STORE IS OVER



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

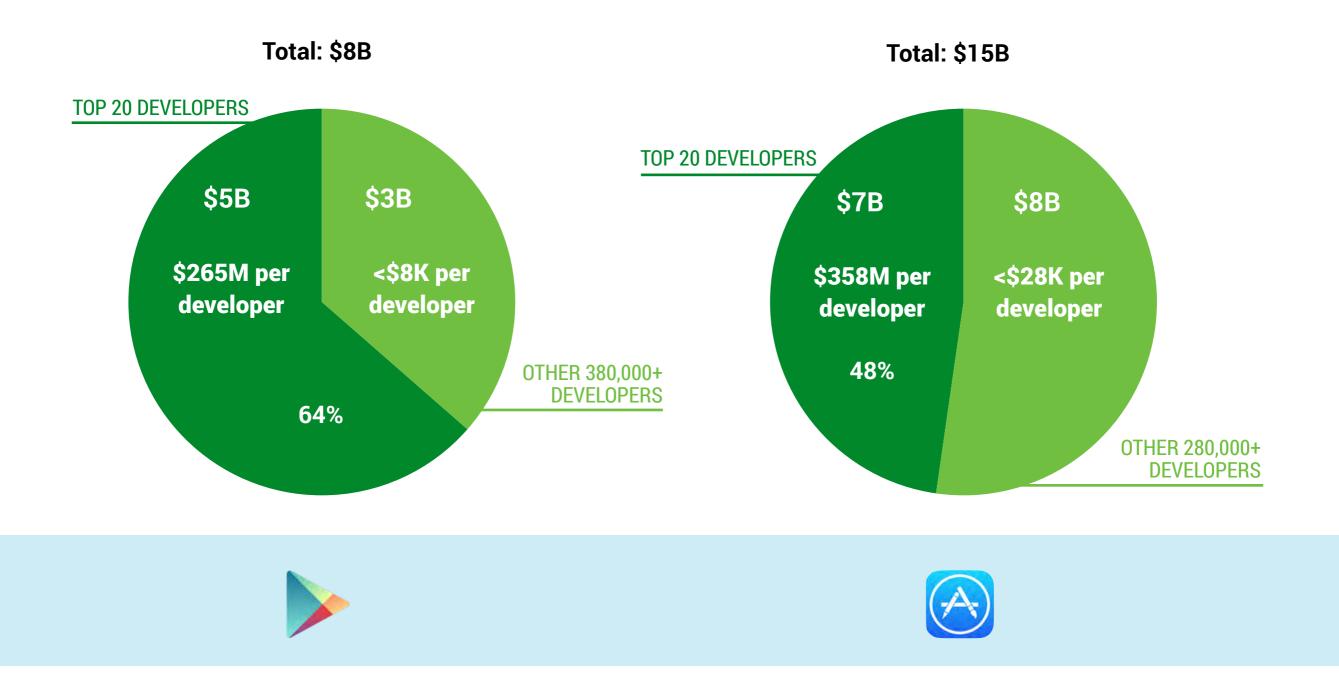
Google Play & iTunes App Store Revenues, Global, 2014

Total: \$23B





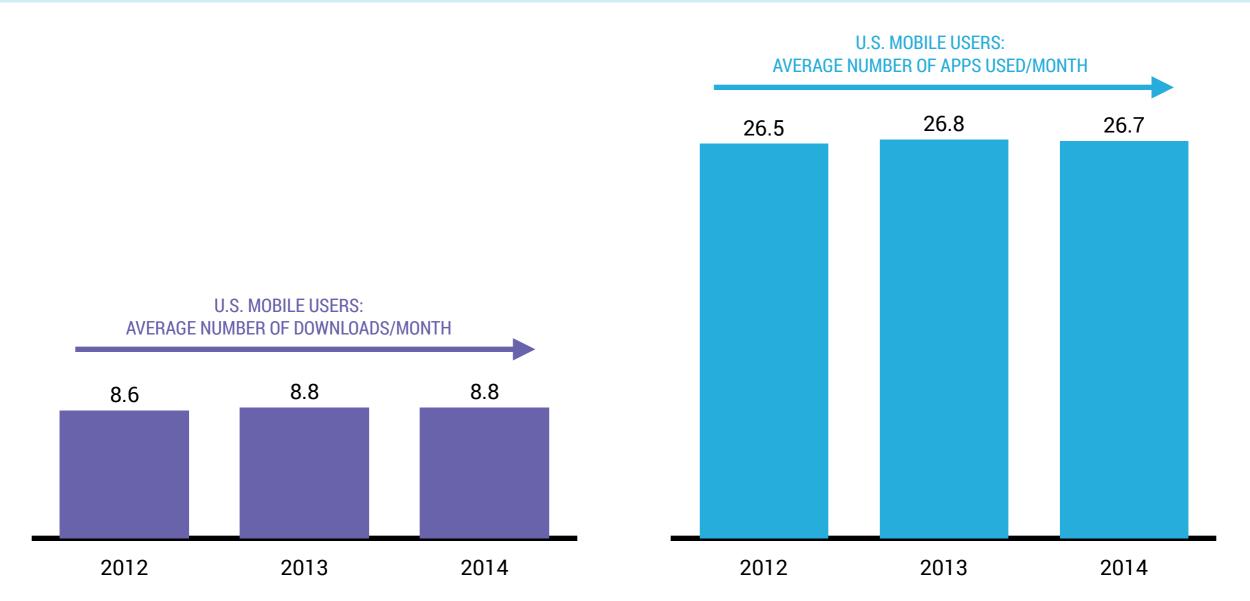
The number of developers on a platform doesn't matter if the top 20 publishers take most of the money



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

Number of downloads remain unchanged...

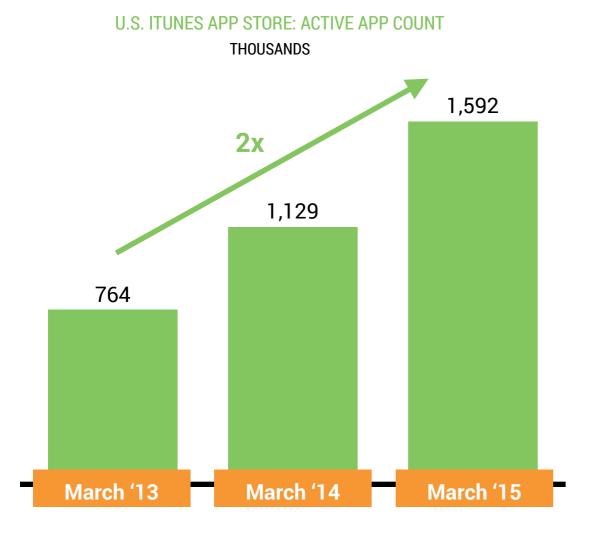
... as do the number of apps used

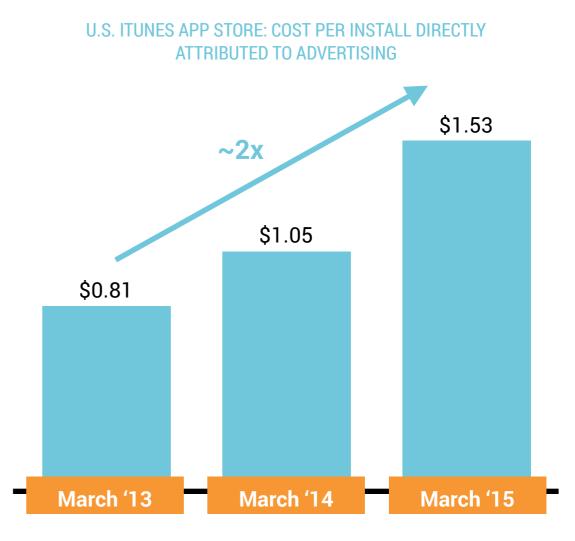


Discoverability continues to be a barrier to the long-tail as app count and cost per install increase concurrently

App count continues to grow exponentially...

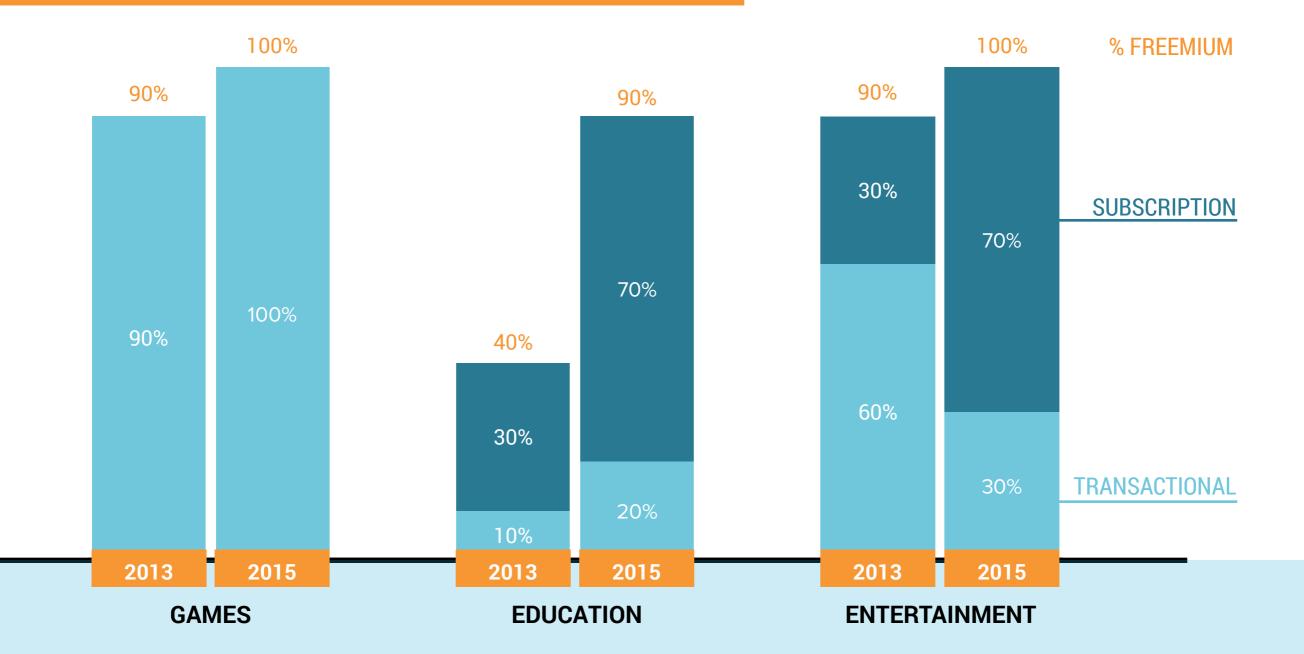
...along with the cost to earn downloads





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

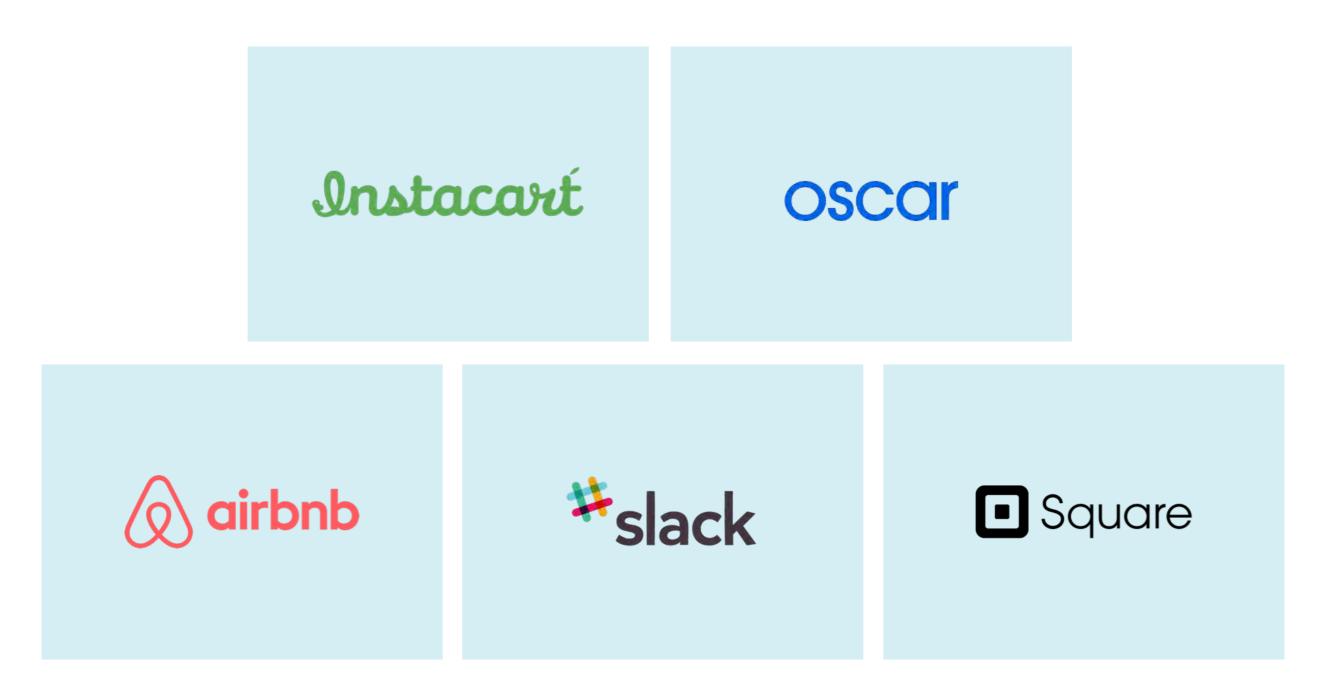


The majority of top apps by unique visitors monetize outside of the app store

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

Rank	App Name	Unique Visitors (M)	Growth	Busines	s 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		•	• 15 OF THE TOP 20 APPS
12	Yahoo Stocks	46.4	0.1		•	do not generate any app store revenue
13	Amazon Mobile	43.7	0.65		•	app store revenue
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		•	

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



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!**

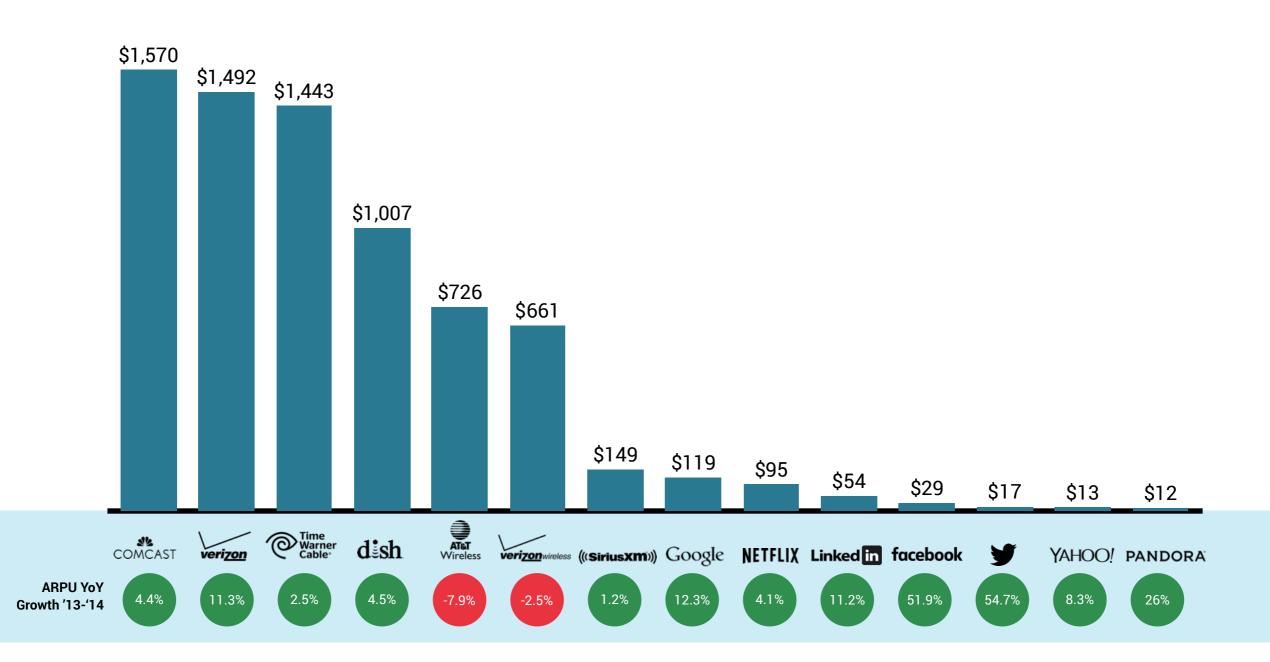
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Not surprisingly, the Pay TV providers continue to capture the highest average revenue per user in the U.S.

Annual ARPU: U.S., 2014

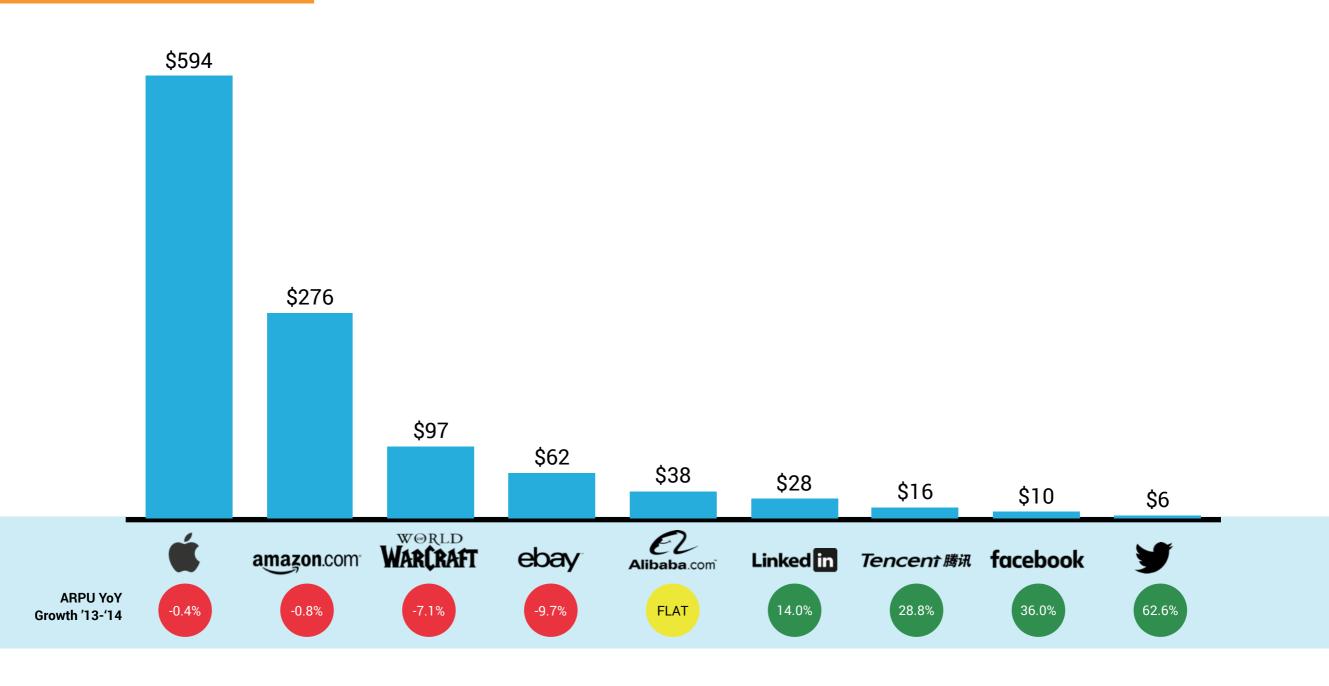
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Sources: Company financials, comScore, eMarketer, and Activate analysis. ARPU based on consolidated US revenues except: Comcast ARPU is based on Residential & Business Services and advertising within the Cable Communications division. Verizon Wired based of Consumer ARPU, and Wireless based off retail post-paid ARPU. TWC includes Subscription Revenue for Residential & Businesses services along with advertising, AT&T Wireless based on post-paid services. Netflix is streaming revenues only.

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

Annual ARPU: Global, 2014



Sources: Company financials, comScore, and eMarketer, Activate analysis. ARPU based on consolidated global revenues except: Apple ARPU is for equipment sales (excludes accessories and apps), Amazon excludes services.

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

	VIDEO			
	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			
	CONNECTIVITY			

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	SK COMCAST	Disnep	facebook	Google	Microsoft	YAHOO!	SAMSUNG SONY	E Alibaba.com	Bai 举 百度	Tencent 腾讯
VIDEO	•	٠	٠	٠	•	٠		٠	٠	٠	٠	•
GAMES	•			•			•	•	٠			•
AUDIO	•	•		•		•			٠	•		•
EDITORIAL			•	•				•		•	•	•
CONTENT DISTRIBUTION	•	•	•	•	•	•	•	•	• •	•	•	•
AD TECH	•	•	•	•	•	•	•	•		•	•	•
MESSAGING		•			•	•	•	•		•	•	•
CONTENT TECH												
PAYMENTS AND WAGERING	•	•			•	•	•		•	•	•	•
ENTERPRISE & STORAGE	•	٠				٠	•		• •	٠	•	•
OS & APP STORE	•	•				٠	•		•	•	٠	•
SEARCH & INTELLIGENT AGENTS						٠	•	٠		٠	٠	•
INTERNET OF THINGS	•	٠		•	•	٠	•		• •	٠	٠	•
MOBILE & DEVICES	•	٠		•		٠	•		• •			
GAMING & STREAMING	•	•	•	•		٠	•		• •	٠	٠	•
COMMERCE / MARKETPLACE	•	•		•		•	•		• •	•	•	•
DELIVERY / ON-DEMAND	•					•				•	•	•
CONNECTIVITY			•			•						

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

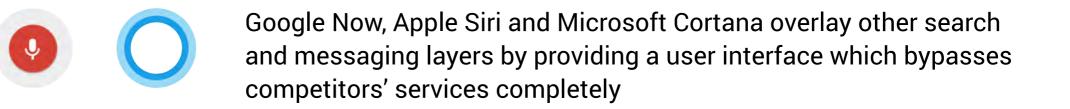
VIDEO	
GAMES	Arkadium Ring.com Nintendo 💿 💵 🖉 👔 T2 🕅 Zynga 🖉
AUDIO	Slate CAROLLA Gimlet® 💮 тwit Scribd. 🚛 🕰 Ф»Mixcloud Isandcamp 🌀 sнаzам
EDITORIAL	POLITICO G Mashable vox media Orudge Report MODE MEDIA Purch DUNDIN WORTHY Medium
CONTENT DISTRIBUTION	
AD TECH	rubiçon DataXu Collective 👂 Tube Mogul 💡 🗙 Ad 🕥 videology 🗞 Ad Rolls 🗞 appnexus TURN 📠 Teads acxiem.
MESSAGING	🔼 snapchat 🕲 Viber Targo, kik 🐵 BLOK! Yik Yak
CONTENT TECH	brightcove AUTOMATTIC 🦃 SQUARESPACE
PAYMENTS & WAGERING	stripe 🖇 DWOLLA 🛛 📶 🖧 bikwik 7 TransferWise 🐨 PAY iZettle adyen coinbase 🏵 Betable skillz
ENTERPRISE & STORAGE	*slack 😵 Dropbox 💠 + a b e a u Qlik 🥘 informatica box 20 birst Hubsoot GitHub
OS & APP STORE	Limited
SEARCH & INTELLIGENT AGENTS	Limited
INTERNET OF THINGS	JAWBONE 🖷 fitbit 🞌 Withings 🏟 proteus: Valen 🤅 LL JIDO MISFIT
MOBILE & DEVICES	Limited
GAMING & STREAMING	ROKU SUTESHOT FOVE
COMMERCE / MARKETPLACE	Etsy MASTY GM Boxed deliv POSHMARK O curbside ship Vistoprint getty mages shutterstock Bankrate yelps 🛞
DELIVERY / ON-DEMAND	Postmates thumbtack @ TaskRabbit Elance Blue Postmates thumbtack @ TaskRabbit Elance Blue Postmates
CONNECTIVITY	

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



amazon echo 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 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.

GROWTH STRATEGY	DIGITAL STRATEGY	NEW BUSINESSES AND PRODUCTS	PRICING	SALES AND MARKETING EFFECTIVENESS	STRATEGIC DUE DILIGENCE
Define overall strategic plans and roadmaps for growth. Identify and exploit new opportunities.	Formulate strategies and identify opportunities to enable tech and media companies to create	Create new businesses as 'virtual startups' within large companies. Leverage content, technology	Develop new pricing structures and strategies to grow revenues from consumers and b-to-b	Position the sales force to grow revenue: organization, incentives and coverage model; advertiser revenue	Bring industry expertise and track record in enhancing business performance to help
Take advantage of innovation, platforms, businesses, content and technology.	new and engaging user experiences, products and services that underpin new growth businesses, revenue streams and audiences.	and experiences to take advantage of the native capabilities of devices and platforms.	customers. Activate's areas of expertise include: advertising, subscription, packages and fees, ticketing, payments, e-commerce, and products.	management; new category and customer development; consumer and b-to-b marketing.	strategic acquirers and private equity firms assess assets and determine how to create value.



CREATED BY Michael J. Wolf Michele Anderson Anil Dash Michelle Forrest Seref Turkmenoglu Sri Narasimhan **Anthony Aguila Ellis Bowen Stephanie Newman Elana Wenger Sam Adams Christopher Meyer**

NEW YORK

156 Fifth Avenue, Penthouse New York, NY 10010 212 316 4444

SAN FRANCISCO

2 Bryant Street, Suite 100 San Francisco, CA 94105 415 385 3725

www.activate.com

