

STATE OF DIGITAL MEDIA

MAY 2019



Meet the Senior LUMA Team

Terence Kawaja



Brian Andersen



Mark Greenbaum



Dick Filippini



Conor McKenna



Gayle Meyers



Founder & CEO

Terry leads strategy, banking and content for LUMA.

He's also head comedy writer and performer.

Partner

Brian is LUMA's marketing technology guru.

He excels at coaching both little league baseball and big league clients.

Partner

Mark runs M&A strategy and execution for LUMA.

He's never met a term sheet he couldn't improve.

Partner

Dick leads LUMA's mobile and gaming banking coverage.

You can find him holding court every February in Barcelona.

Vice President

Conor manages the execution of both deals and content.

Think of him as the glue that ties it all together.

CMO

Gayle runs LUMA's marketing, events, and partnerships.

Think of her as top of the LUMA funnel.



2018

CHANGE



At our Digital Media Summit in 2018, we characterized the state of digital media with one word: “CHANGE.” With new regulations coming into effect, major digital media executives moving on, and evolving consumer expectations altering business models, change was indeed in the air.

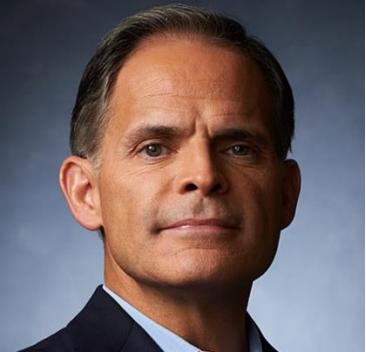


2019

MORE CHANGE



And this year has been more of the same!



Digital Media is Facing Several New Challenges

Data Breaches



Data Regulation



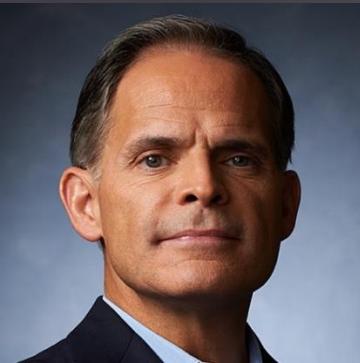
Platform Abuse

The New York Times
*A Genocide Incited on Facebook,
With Posts From Myanmar's Military*

Anti-Trust

THE WALL STREET JOURNAL.
Google Is Fined \$5 Billion by EU in Android Antitrust Case
Decision marks the European Union's biggest-ever antitrust fine and sharpest rebuke to Silicon Valley

By Sam Schechner And Douglas MacMillan
Updated July 18, 2018 8:09 p.m. ET



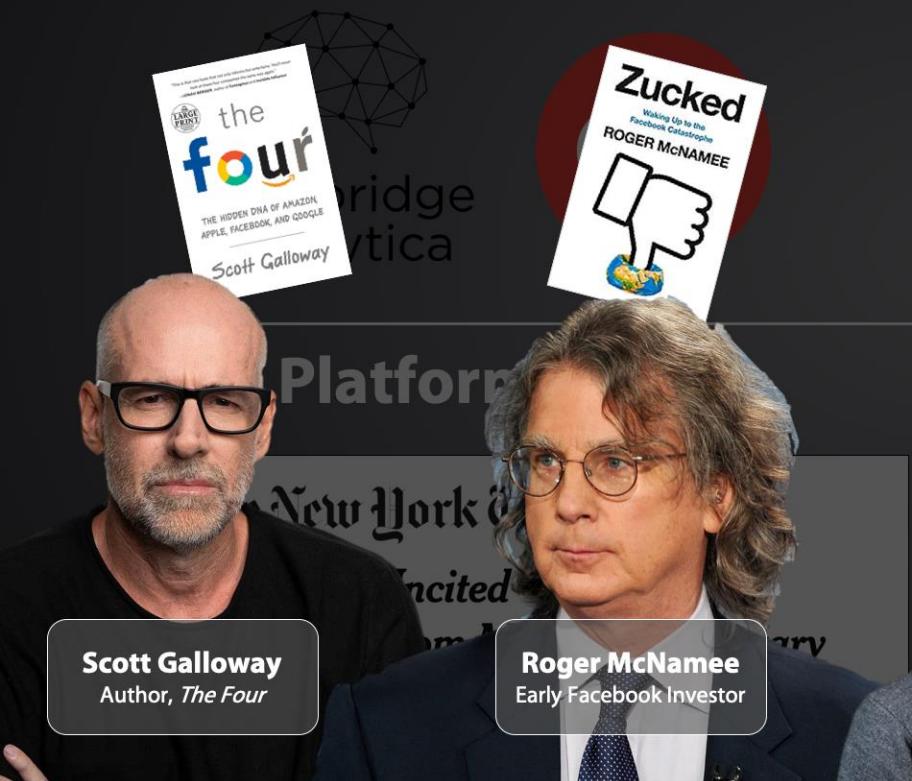
Digital media faced a new set of challenges this past year from the major data breaches, to increased regulations, platform abuse and anti-trust fines. These issues will leave a lasting effect on the industry and have already reshaped the landscape as we know it.

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Digital Media is facing Several New Challenges Data Privacy Fake News Fake Regulation

TECH-LASH!



These challenges have resulted in a full blown tech-lash. It started several years ago when Scott Galloway came out calling for a break-up of the Big Four (Google, Facebook, Amazon and Apple) which, at the time, seemed heretical. Now, that same call has been echoed by an early Facebook investor, Roger McNamee, and Facebook Co-Founder Chris Hughes. It's gone so far as to become a stump speech for 2020 Presidential candidate Elizabeth Warren, calling for the break up of big tech.

Challenge: Tech Issues All Painted with Same Brush

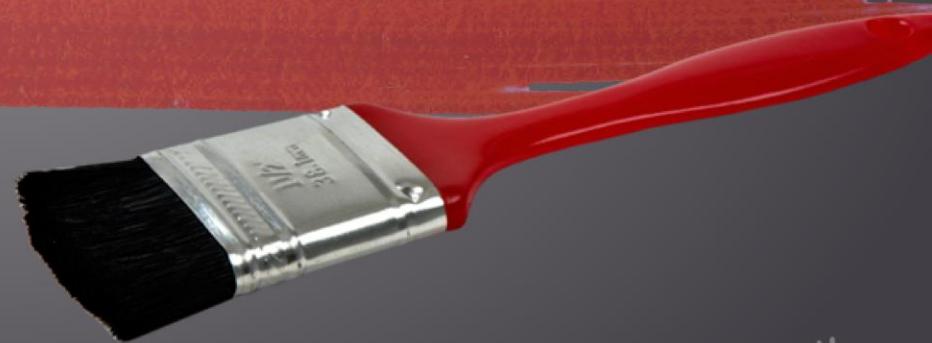
Data
Breaches

Platform
Abuse

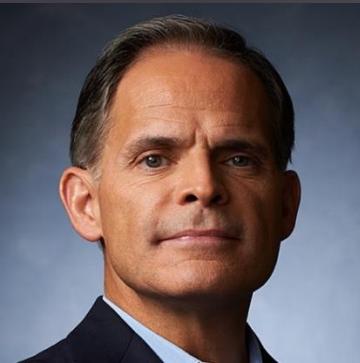
Political
Interference

Anti-Trust

Anonymous
Targeting



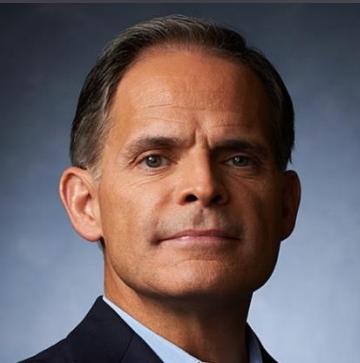
The challenge, however, is that these tech issues are all being painted with the same brush, thus grouping all digital media challenges under a similar level of severity.



Reality: Data & Privacy Issues Vary in Severity



Data Breaches	Platform Abuse	Anonymous Targeting
Political Interference	Anti-Trust	



The reality is there is a big difference between these issues. On one side, there are material issues such as data breaches, political interference and anti-trust that need to be addressed and regulation seems like the best way to do it. On the other, there are concerns around anonymous data collection / targeting. While it's important to give consumers transparency around what data is shared and allow for opt-outs, the use cases and implications of these practices are not as nefarious as those on the left.

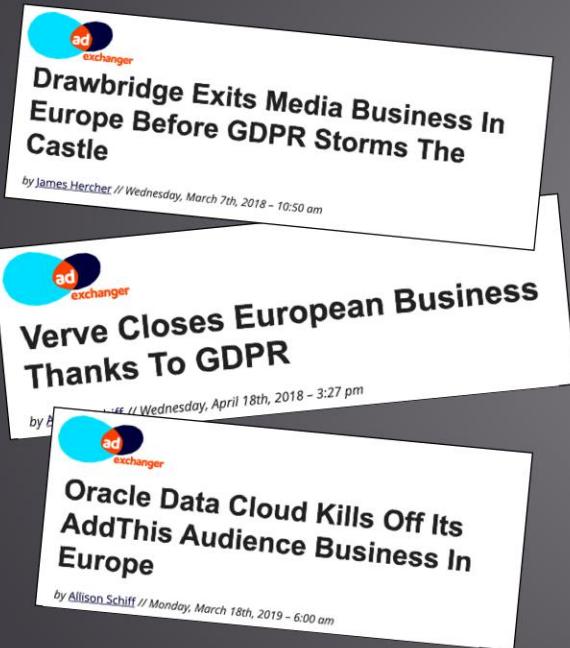
GDPR Came Into Effect One Year Ago



At this time last year, GDPR came into effect in Europe and there was a lot of uncertainty around how it would effect the digital landscape.



The Overt Impacts Have Been Fairly Limited



91 Fines

Levied Under GDPR

OPT-IN



OPT-OUT



<2%

Consumers Have Opted-Out

Source: Prohaska Consulting, DLA Piper



Since its implementation, the direct effects of GDPR have been limited. We've seen some companies simply close down their European businesses. There have been about 91 fines levied, but most have been fairly insignificant. Most importantly, consumer opt-outs have been pretty low. According to one study conducted with Prohaska Consulting, publishers saw less than a 2% opt-out rate in the first 6 months since the new regulation came into effect.



But the Underlying Impacts are More Worrisome

Increased Regulation



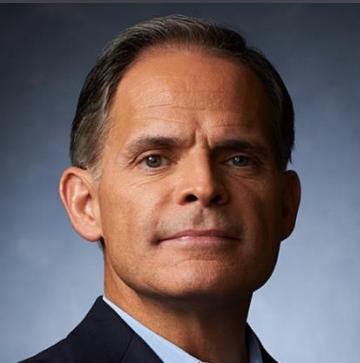
Tightening Data Availability



Strengthening Walled Gardens



But the underlying impacts of GDPR (and more data scrutiny in general) are more worrisome. We've seen increased regulation in the US, specifically with the California Consumer Protection Act (CCPA) coming into effect and a tightening of data availability by the major tech providers. We believe that these impacts will ultimately strengthen the walled gardens as they start to build their walls higher.



Walled Gardens Increase Data Controls



Google CEO Sundar Pichai: 'Our mission is to protect your privacy'

By Liam Tung | December 11, 2018 — 11:09 GMT (03:09 PST) | Topic: CIO



Google Sharply Limits DoubleClick ID Use, Citing GDPR

by Alison Weissbrot // Friday, April 27th, 2018 – 1:51 pm

THE WALL STREET JOURNAL.
Google Prepares to Launch New Privacy Tools to Limit Cookies

Chrome users will get more information on what cookies are tracking them and how to block them
By Patience Haggan and Rob Copeland
May 6, 2019 10:11 a.m. ET



A Privacy-Focused Vision for Social Networking

MARK ZUCKERBERG — WEDNESDAY, MARCH 6, 2019



Facebook will cut off access to third party data for ad targeting

Taylor Hatmaker @taylorhatmaker / 1 year ago

The New York Times

Facebook Set to Create Privacy Positions as Part of F.T.C. Settlement

By Cecilia Kang May 1, 2019

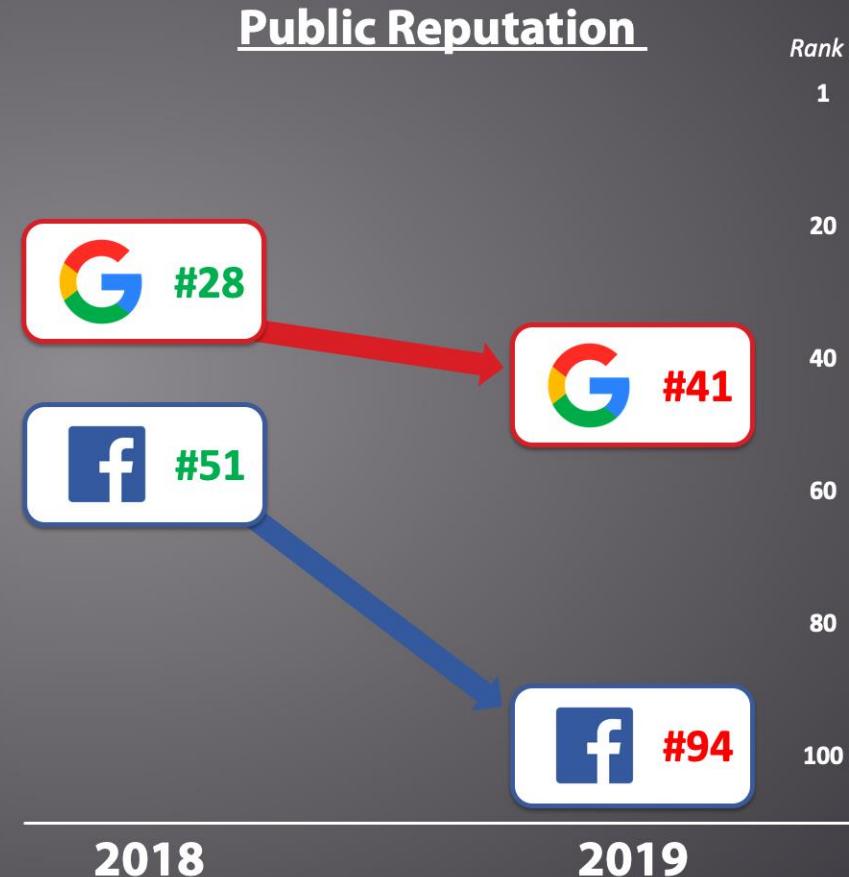
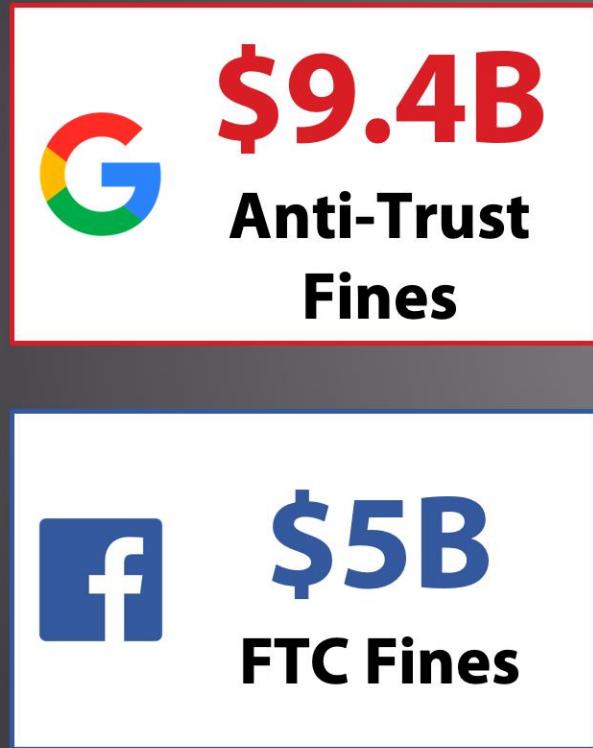


Google and Facebook have both already implemented measures to pull data back from third-party sources. While this is being done under the guise of privacy, these pullbacks actually give them more control over the data and limits other ecosystem players, strengthening their hands.

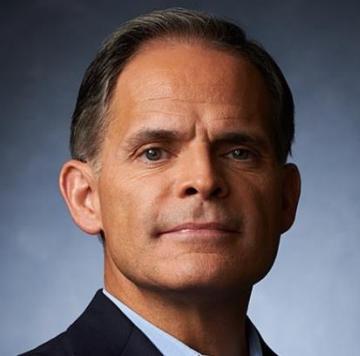


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Duopoly Hit With Fines and Consumer Pushback

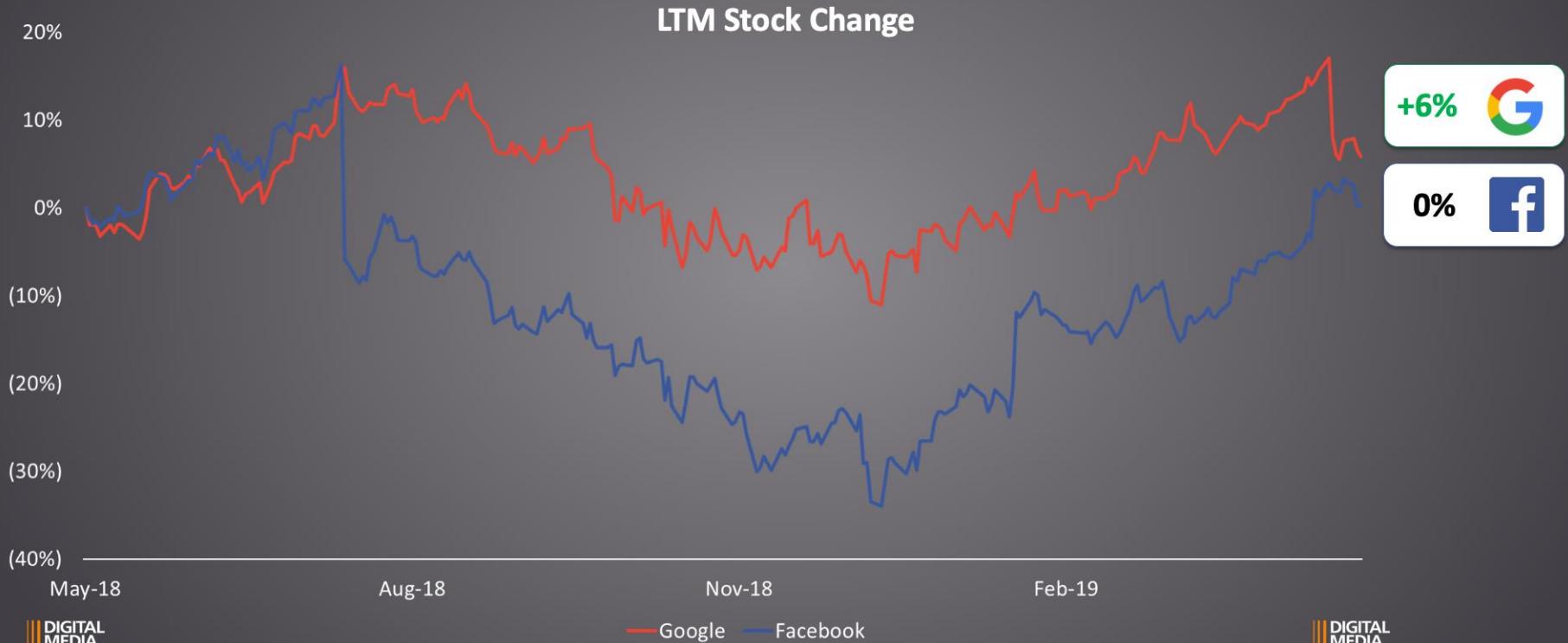


Source: The Harris Poll Reputation Quotient, 2019

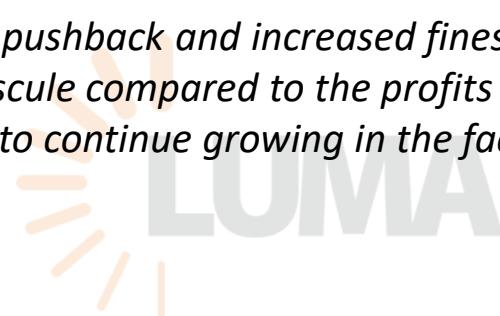


Over the last year, both Google and Facebook have been hit with hefty fines, totaling nearly \$15B between the two companies, over data / privacy and anti-trust issues. Consumers are also starting to look negatively on these companies, resulting in a decline in public reputation.

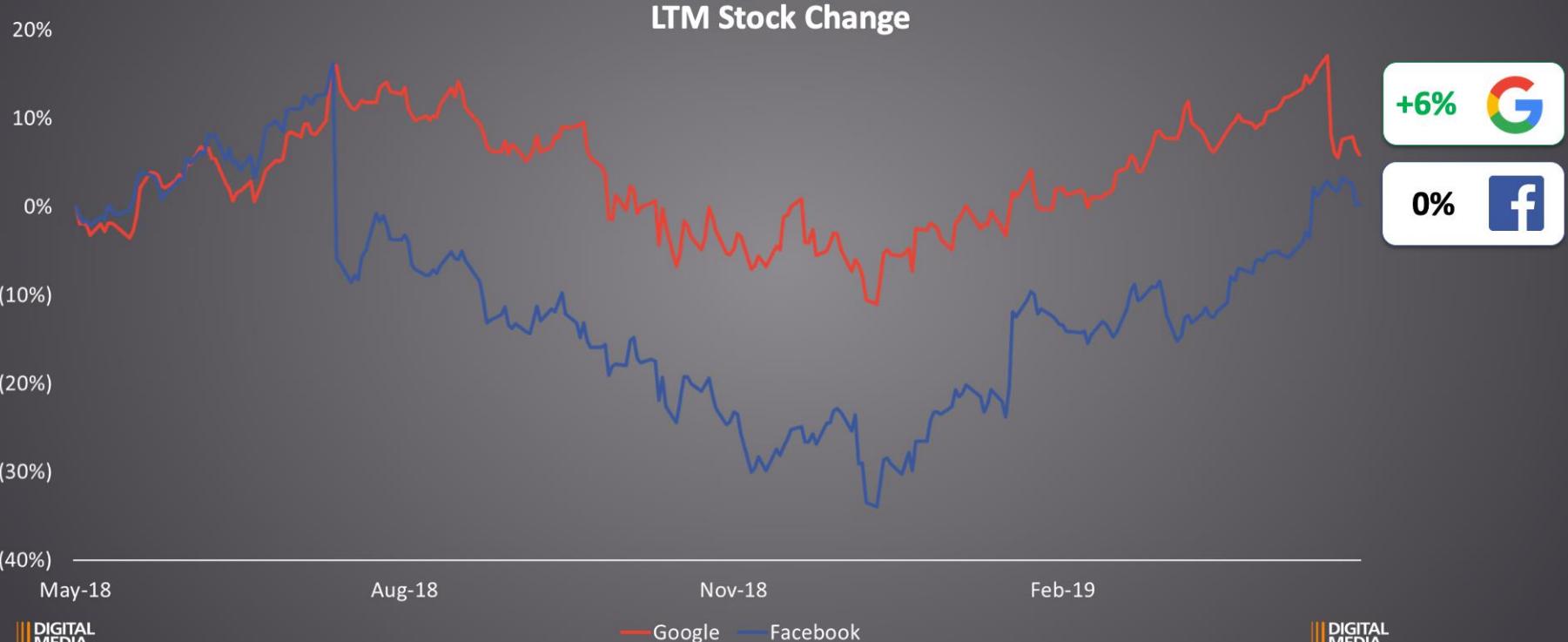
Although Investors Haven't Seemed to Care



Despite the public pushback and increased fines, investors have not seemed to care. The fines are minuscule compared to the profits Google and Facebook generate, and they've been able to continue growing in the face of declining public sentiment.



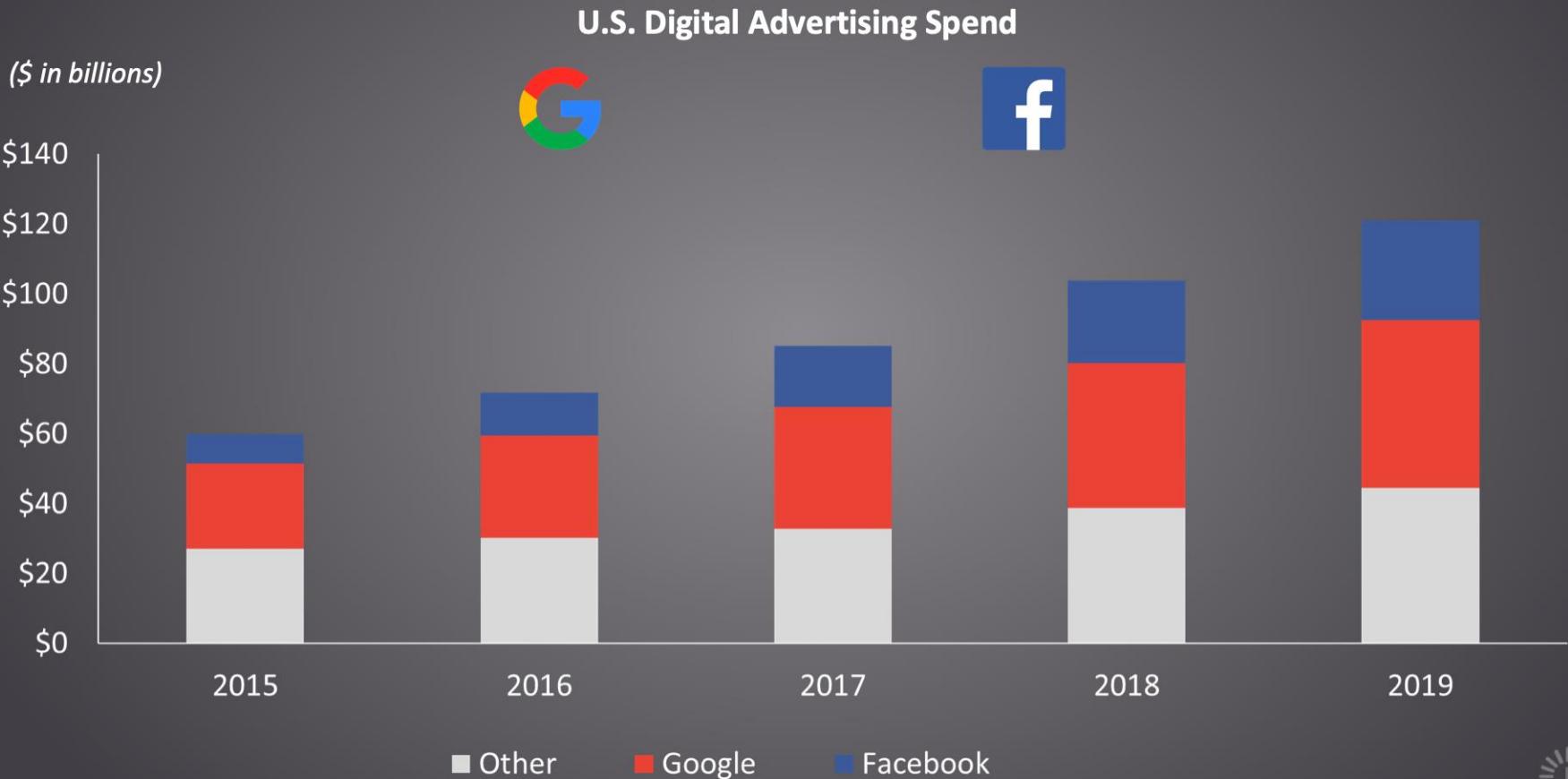
Although ~~Investors~~ Haven't Seemed to Care Advertisers



So perhaps it's not investors who haven't seemed to care, but rather advertisers, who have continued to pump more dollars into these platforms.



Ad Spend Continues to Grow



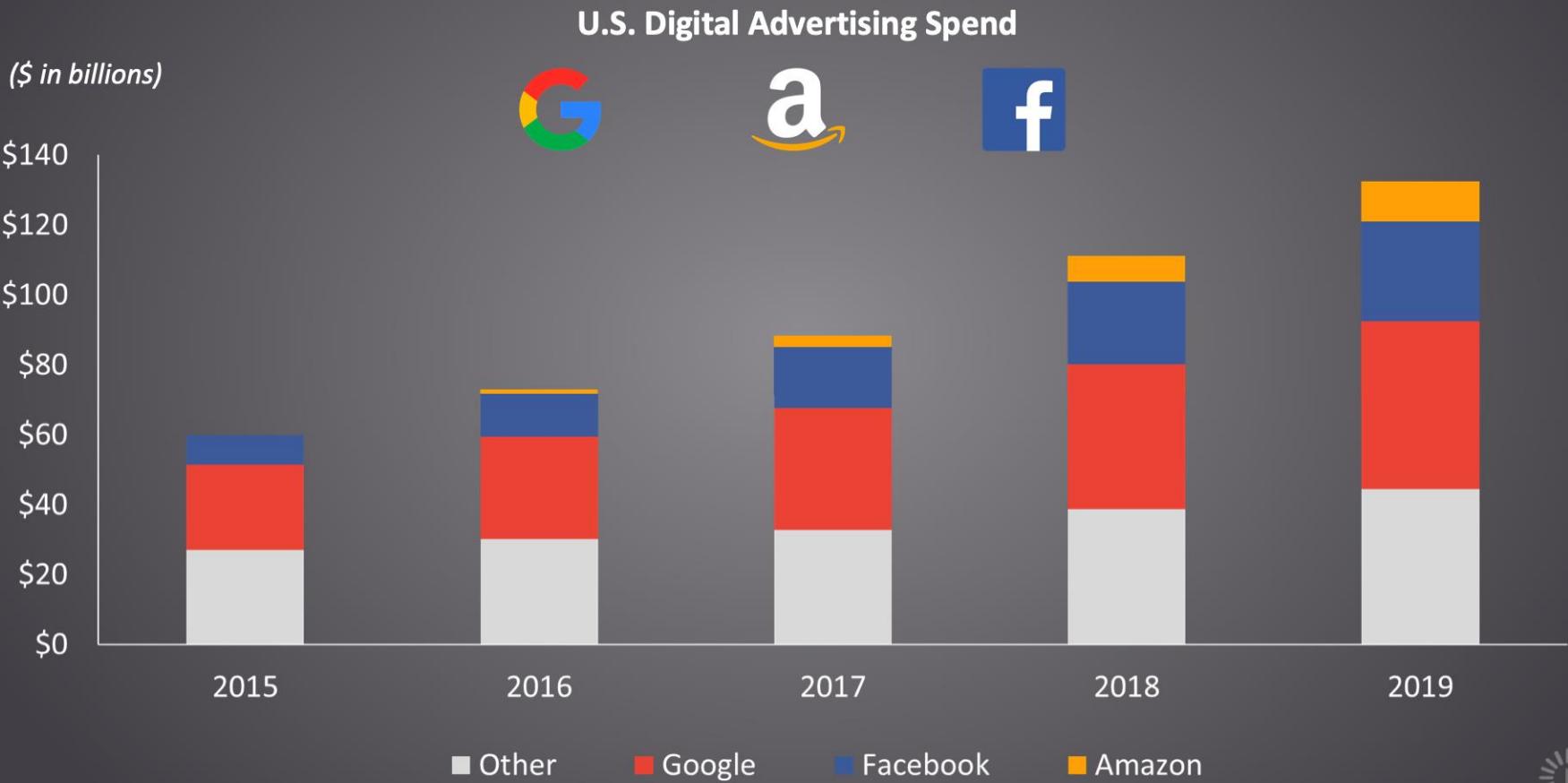
Source: eMarketer



With this, the Duopoly continues its dominance over the advertising ecosystem, garnering most of the digital ad spend in the United States.



Amazon is Becoming a True Contender



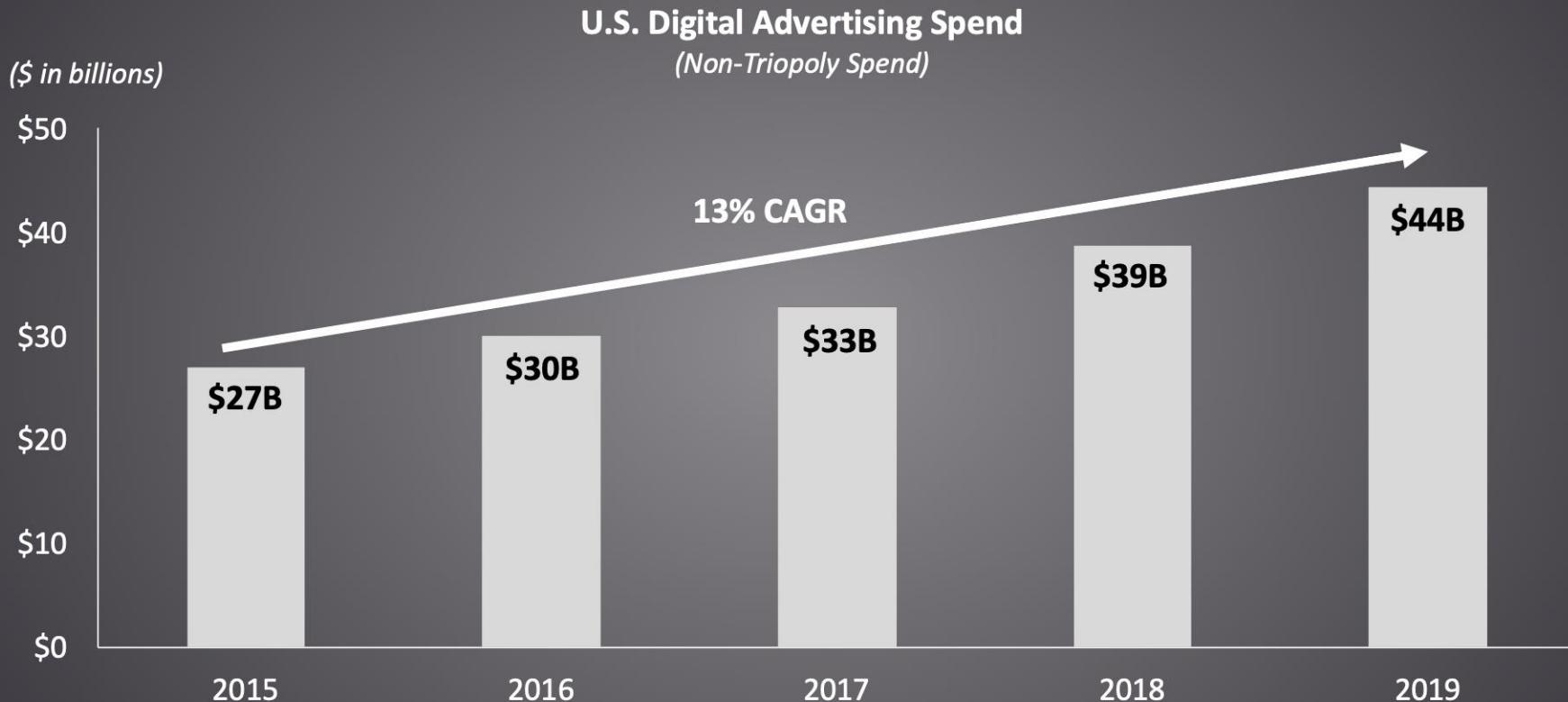
Source: eMarketer



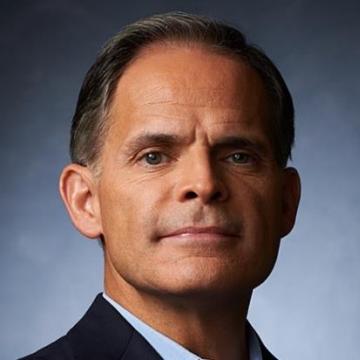
Or should we say the Triopoly continues to dominate. Over the last year, Amazon has made its presence known as a true contender in the digital advertising space, garnering over \$7 billion in ad spend in 2018.



Still A Massive Market Outside of the Triopoly



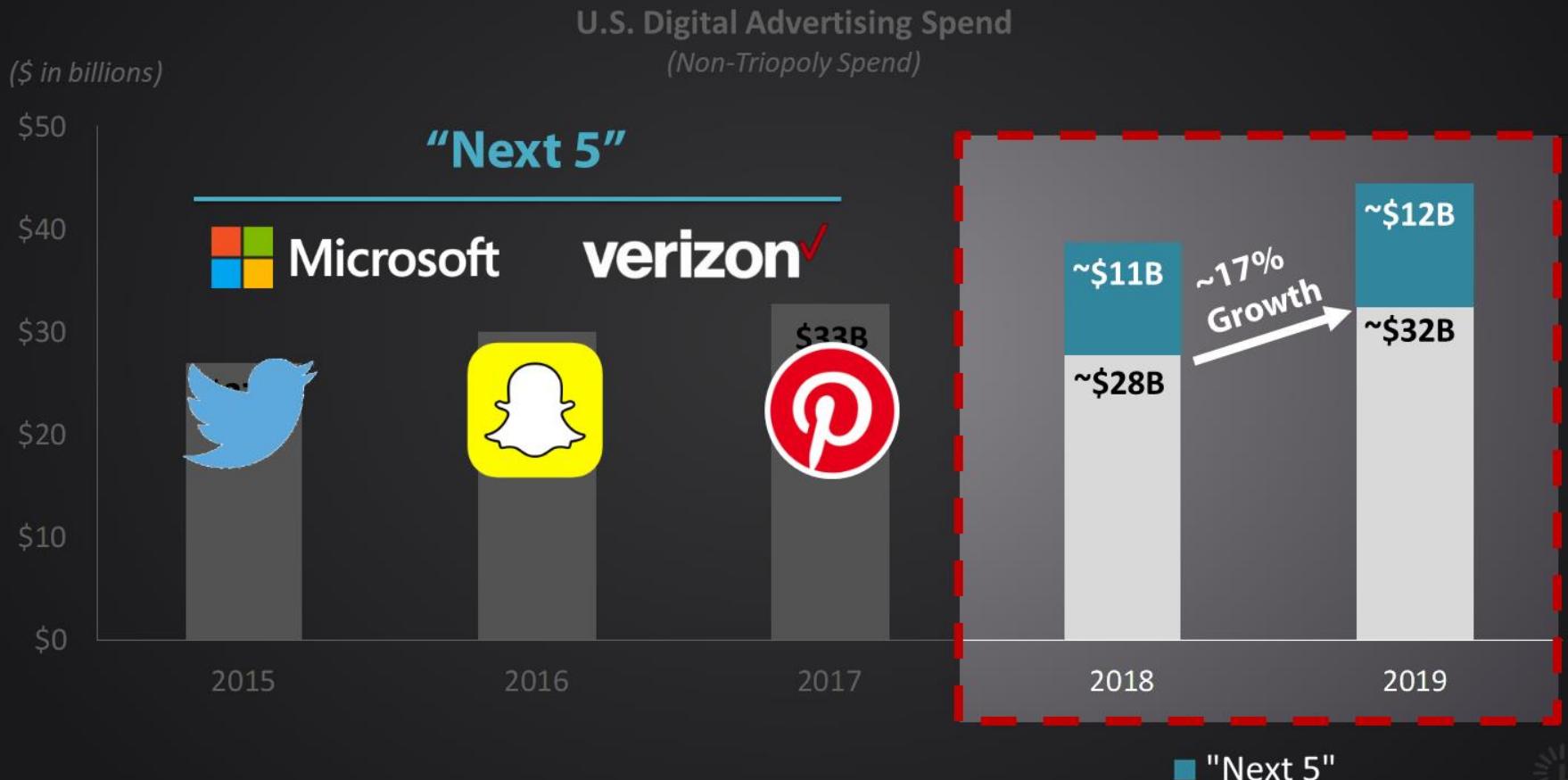
Source: eMarketer



Let's not forget that the non-Triopoly digital ad spend is still a massive and growing market, which offers a lot of opportunity for independent Ad Tech players to succeed, despite the Triopoly's grip on the space.

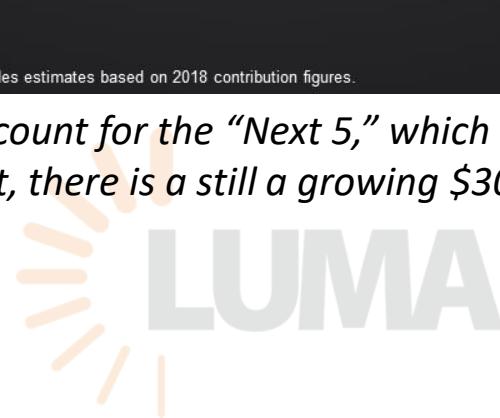
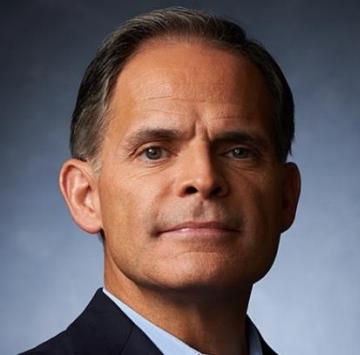


Though the “Next 5” Do Take a Good Chunk



Source: eMarketer, Thomson Reuters, Company filings. Figures for "Next 5" companies includes estimates based on 2018 contribution figures.

Even when you account for the “Next 5,” which includes Microsoft, Verizon, Twitter, Snap and Pinterest, there is still a growing \$30 billion market up for grabs.



Led by Programmatic, Video & Mobile



PROGRAMMATIC

82%

Of Digital Display
Ad Spend

30%

Growth



VIDEO

48%

Of Digital Display
Ad Spend

36%

Growth



MOBILE

65%

Of Digital Ad Spend

33%

Growth

Source: eMarketer; IAB / PwC 2019



What's behind this growth? Programmatic, Video and Mobile. Programmatic now accounts for 82% of digital display ad spend and is still growing. Video accounts for just under half of all digital display ad spend and is the fastest growing display channel. Lastly, mobile accounts for two thirds of all digital ad spend.



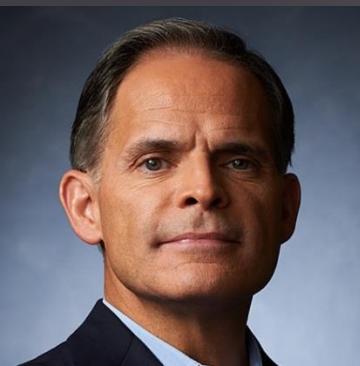
Programmatic Built On the Back of 3rd Party Data



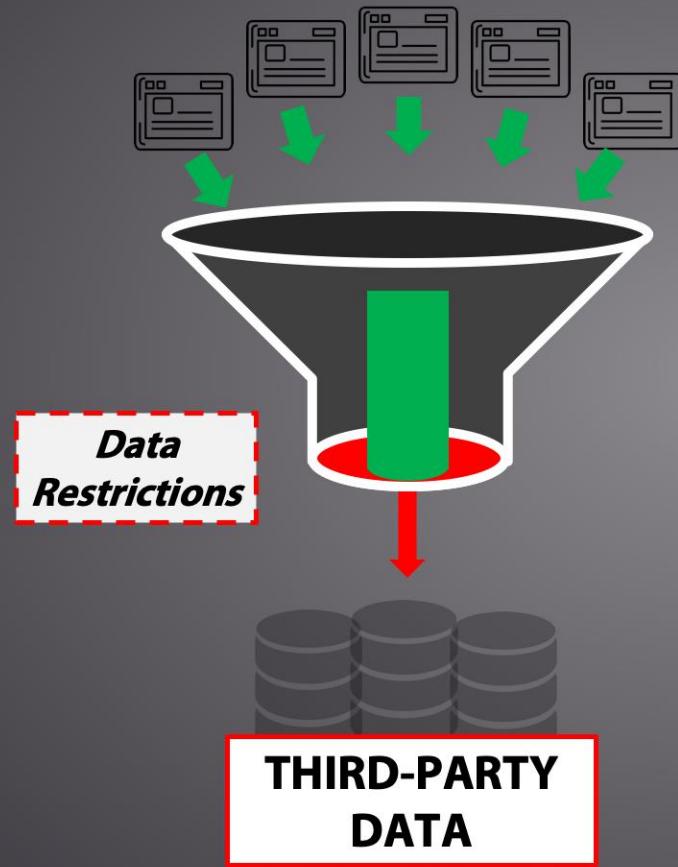
3rd Party Data



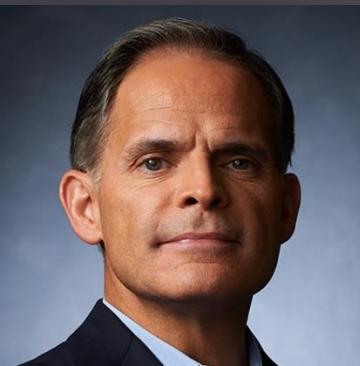
As noted, programmatic advertising has become pervasive in digital advertising. Yet programmatic was built on the back of third-party data.



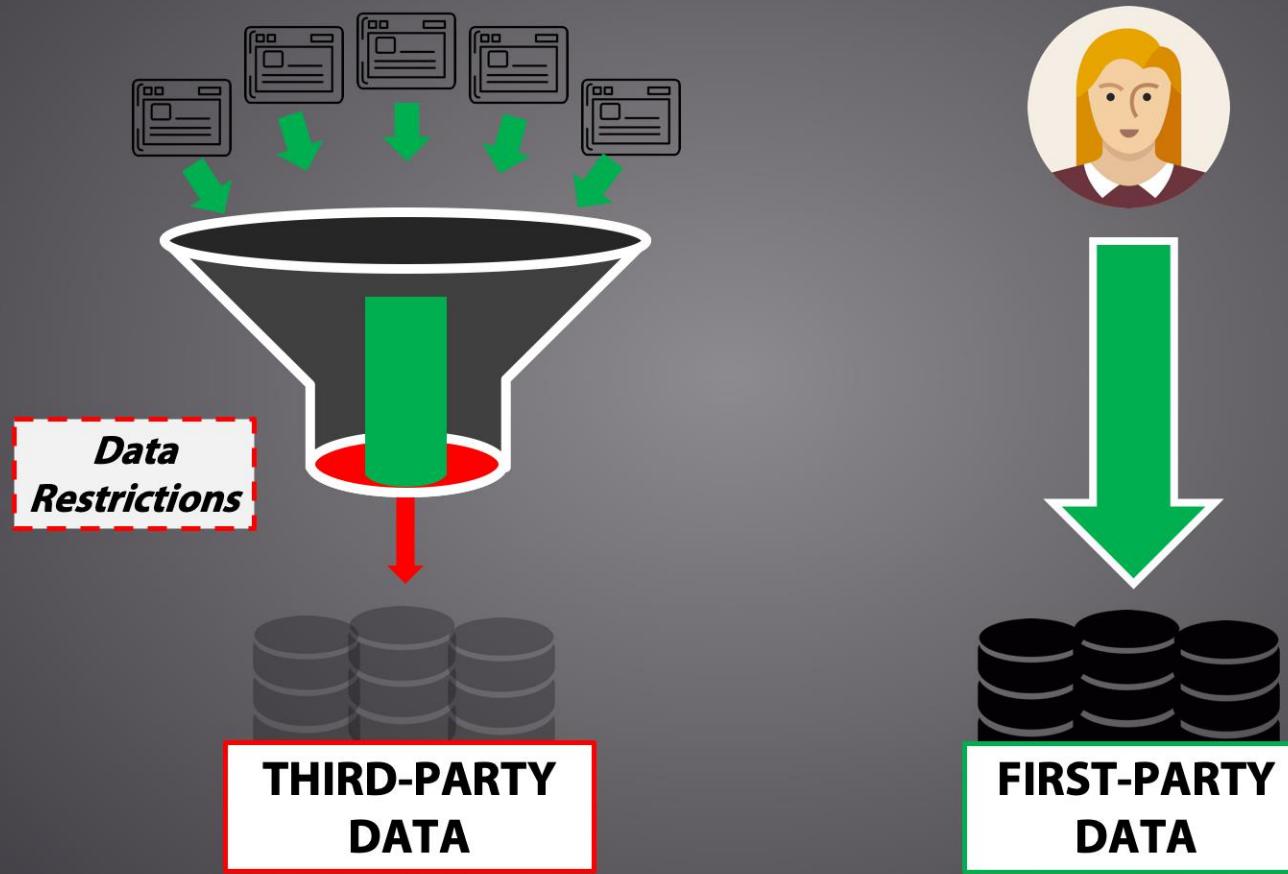
But, Now Third-Party Data is Constricting



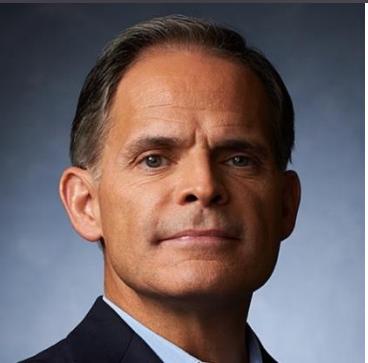
Now, we are seeing a constriction of third-party data availability due to data restrictions as a consequence of increased scrutiny and regulation.



Increasing the Need For First-Party Data



The result of this is an increased emphasis and need for first-party data. This is something we've been calling for for some time. So, while the data restrictions are challenging in the near term, we believe the focus on first party data will be beneficial in the longer term.



Data-Driven M&A Activity Persists



\$0.85 Bn



salesforce

\$0.8 Bn



\$1.6 Bn



arm

\$0.6 Bn



\$1.0 Bn

(\$225MM
investment)



Adobe

\$4.8 Bn



\$2.0 Bn

(\$400MM
investment)



SAP

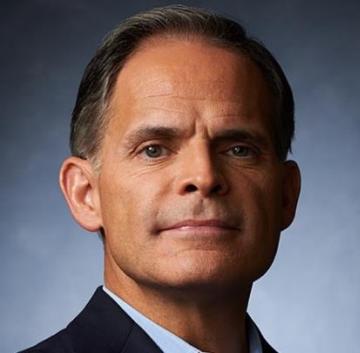
\$8.0 Bn

qualtrics

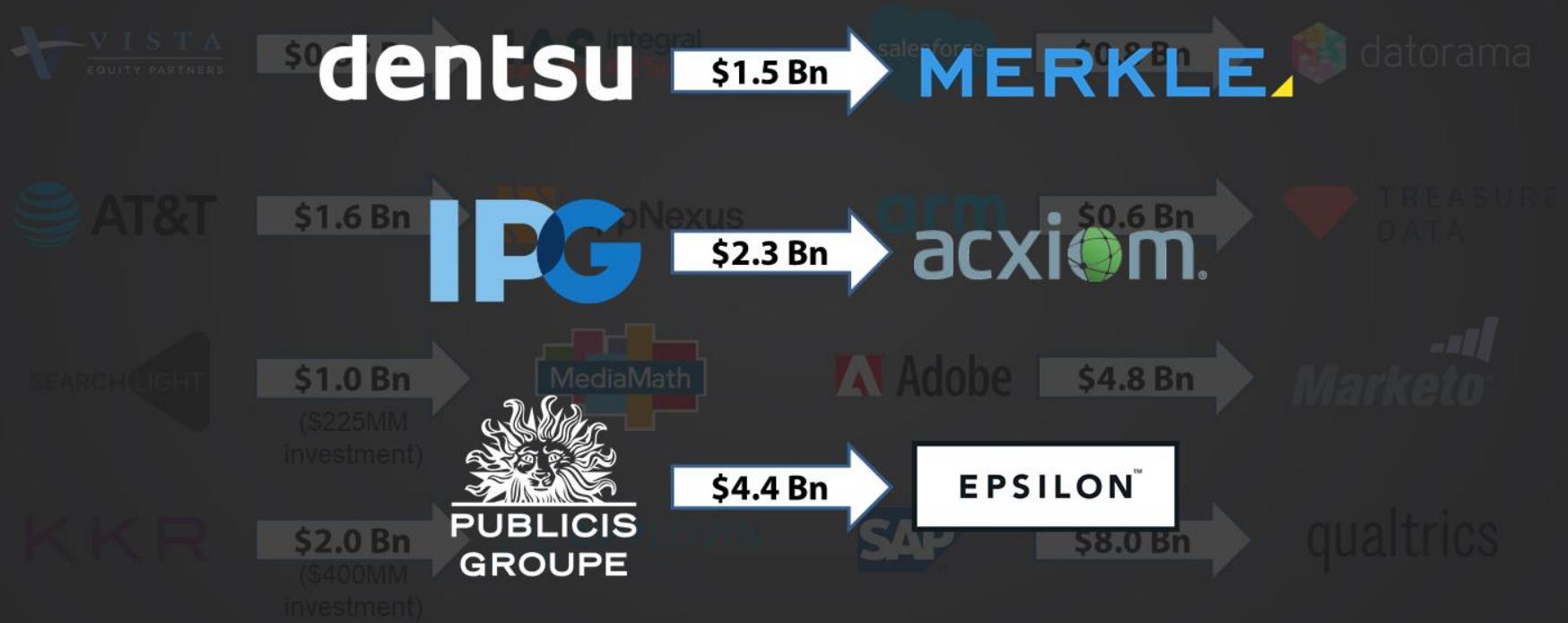
Source: Pitchbook, Company filings



Many thought this scrutiny would have a negative effect on M&A surrounding consumer data. Instead, we saw an increase in data-driven M&A. In what we dubbed the "Summer of Data," there were a few billion dollar acquisitions just after GDPR went into effect, and the large acquisitions have continued since.



Even the Agencies Have Gotten into the Game



Source: Pitchbook, Company filings

We have even seen agencies emerge as data marketing services acquirers, totaling \$8 billion in transactions. This began with Dentsu Aegis acquiring Merkle several years ago, and now within the past year Acxiom and Epsilon have both been acquired by IPG and Publicis, respectively.



Agencies Have Been Under Pressure for Some Time

Circa 2015

Back to **Mad Men**

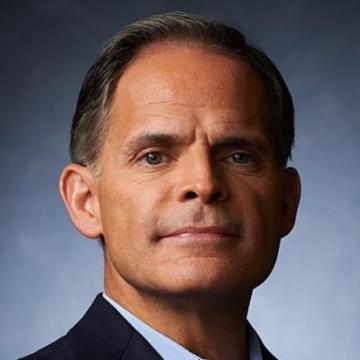
What the Future Holds
for Ad Agencies



Digital Brief
004



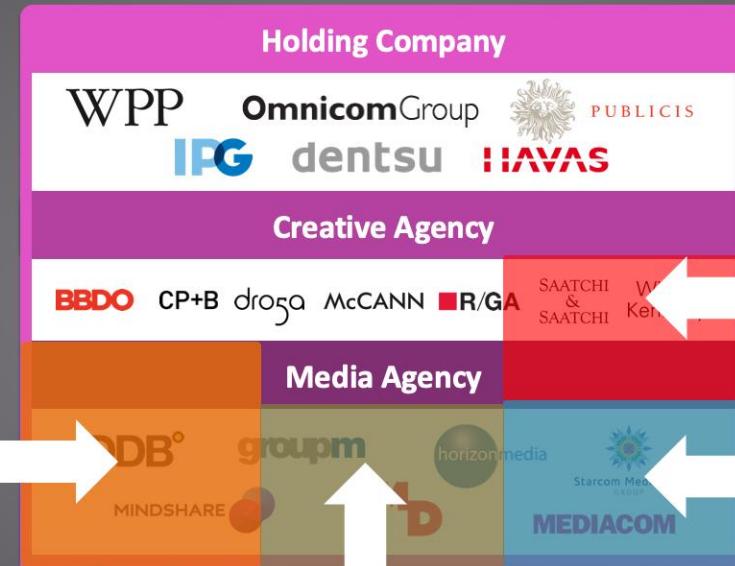
Looking back to 2015, we published a Digital Brief titled “Back to Mad Men,” in which we spoke about the future of ad agencies.



Circa 2015

Encroachment From All Sides

Marketers



In this, we highlighted the challenges facing agencies as they were being encroached from all sides from – Data Marketers to Technology companies – and even insourcing directly from Marketers.

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Circa 2015

Our Prognostications...4 Years Later

1. Hold Co Mergers Won't Work

2. Tech Acquisitions Will Fail

3. Acquire Data Businesses

4. Acquire Tech Services

5. Strategy & Systems Integrator

The conclusions we came to four years ago surrounding the future of agencies were the following: 1) Holding company mergers wouldn't work, 2) Tech acquisitions would fail, 3) Agencies should acquire data businesses, 4) Agencies should acquire tech services, and 5) Address the need for a strategy & systems integrator. Let's see how our predictions held up.



Our Prognostications...4 Years Later

1. Hold Co Mergers Won't Work

2. Tech Acquisitions Will Fail

3. Acquire Data Businesses

4. Acquire Tech Services

5. Strategy & Systems Integrator



1) Correct. No additional Hold Co mergers were attempted. 2) Correct. Agencies have generally been poor acquirers of tech. 3) Correct. \$8 billion in deal value surrounding data businesses. 4) Wrong (for now). We haven't seen much activity in this space, but Sir Martin Sorrell's S4 Capital might change that. 5) Yet to be seen. The challenge is that to provide this solution, ad agencies would need the correct business model, talent, and, most importantly, marketers' trust.



Marketers' Challenge: Siloed Data



It is clear that the industry recognizes the need for data to be successful, but marketers' are still dealing with the challenges that stem from siloed data.



Enter The Customer Data Platform

Collects



Unifies & Models



Segments



Syndicates



3RD PARTY DATA



Enter the Customer Data Platform (CDP). One of the most talked about technologies right now is the CDP. This platform allows for the collection, unification, segmentation and, ultimately, activation of various first- and third-party data sources.



CDPs Continue to Attract Significant Funding

~\$600M

Invested Since 2017



BLUECORE



bouncex



mparticle



Segment

ACTIONIQ

sessionm

TEALIUM

& amperity

ZAIUS



smarterHQ



Simon

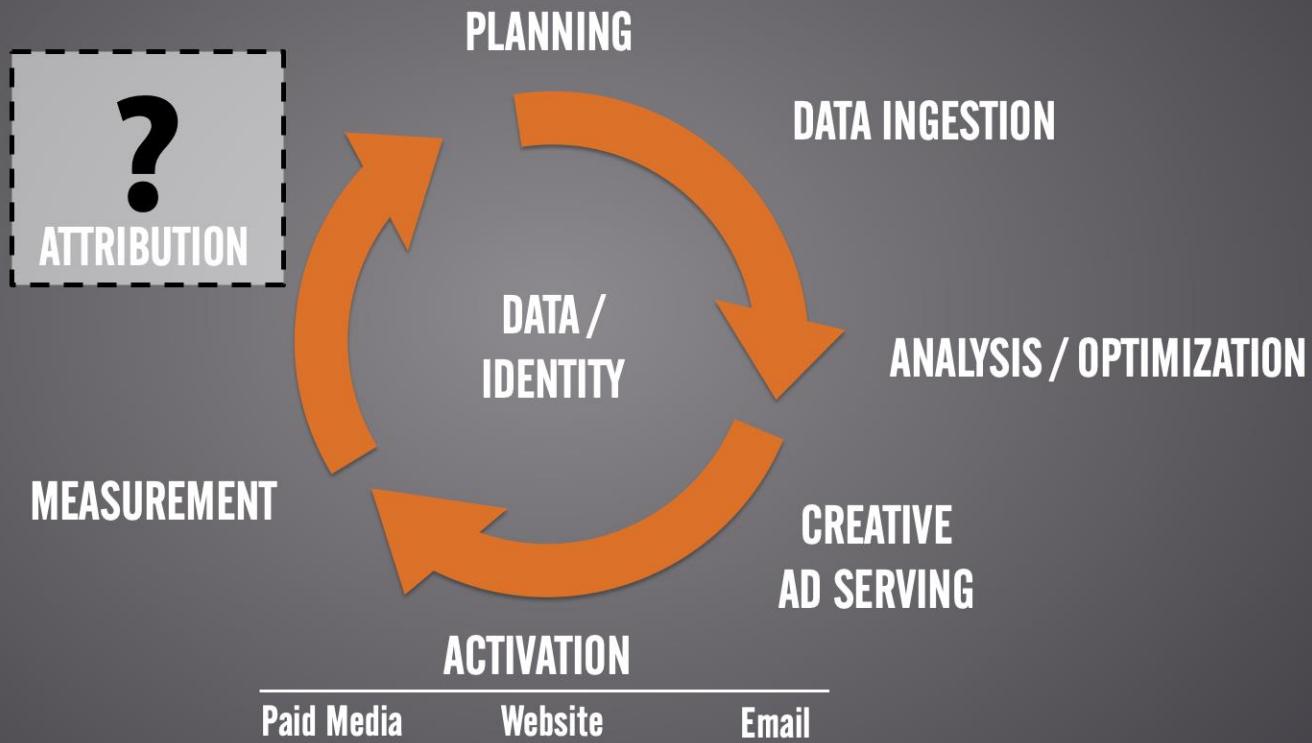
Amplero



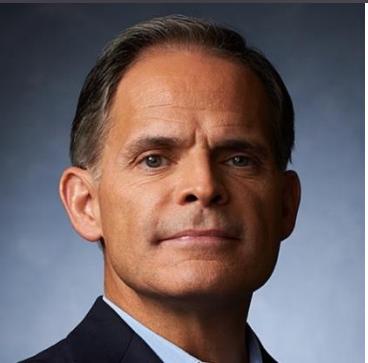
Beyond the market chatter, investors are betting with their wallets. The category has raised approximately \$600 million in venture capital over the past two and half years and continues to gain momentum.



The End Goal: Holistic Marketing Solutions



What's the end goal of leveraging all this data and technology? To attain holistic marketing solutions that tie together planning, targeting, activation, measurement and attribution in one closed loop tied together with data/identity. While there has been significant progress on many parts of this, the weakest aspect of the loop is attribution.



Amazon Has Closed The Loop

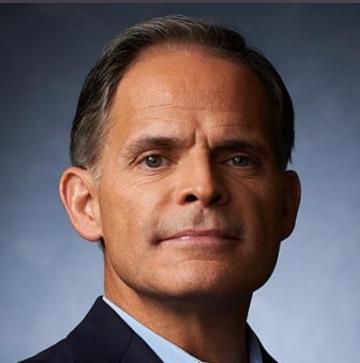


Closed Loop Advertising

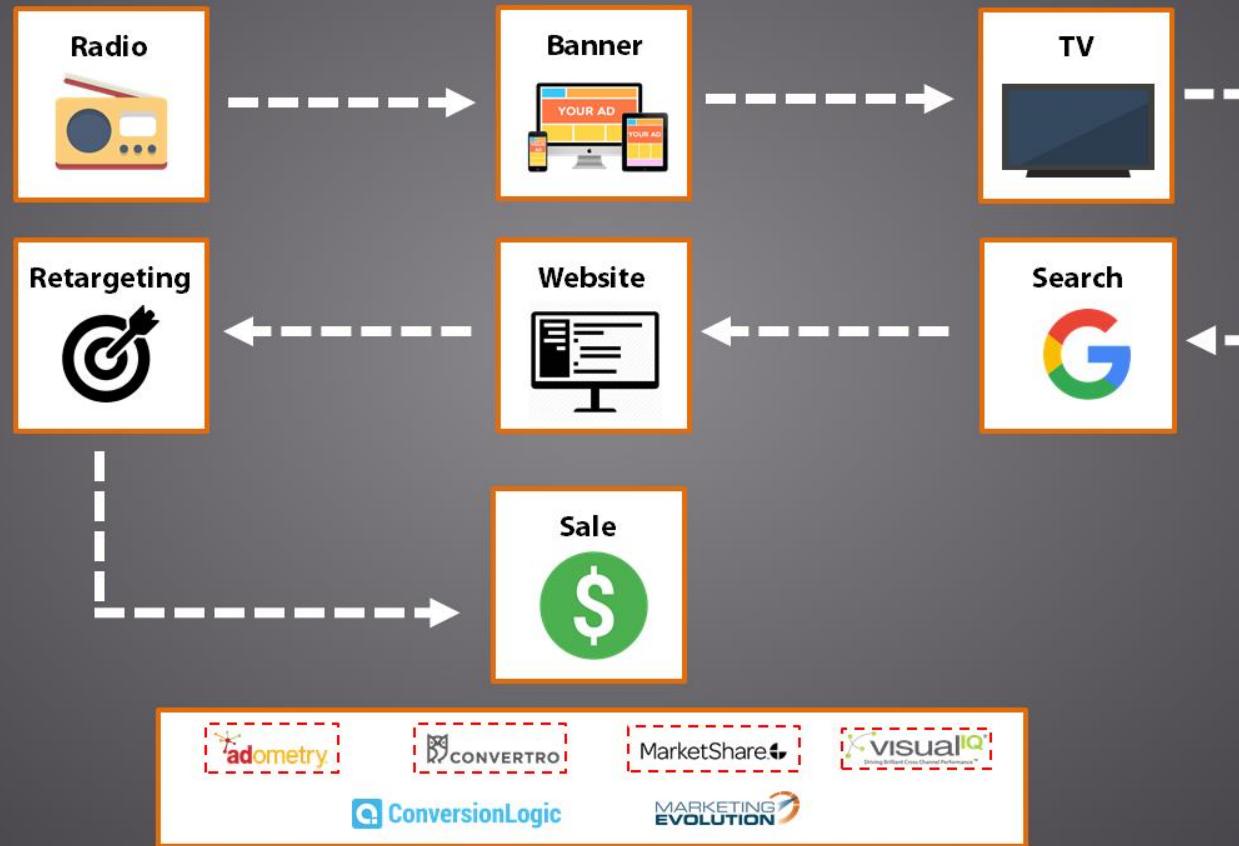
amazon advertising



Amazon has successfully closed the loop within its own stack. Amazon started at the bottom of the funnel in shopping, but has continued to move up. It began with moving into intent by improving search capabilities to such an extent that over half of all shoppers search on Amazon first. Now, as Amazon has improved its advertising business, they've moved up to awareness as well, successfully closing the loop on advertising.



Multi-Touch Attribution Needed in Open Ecosystem



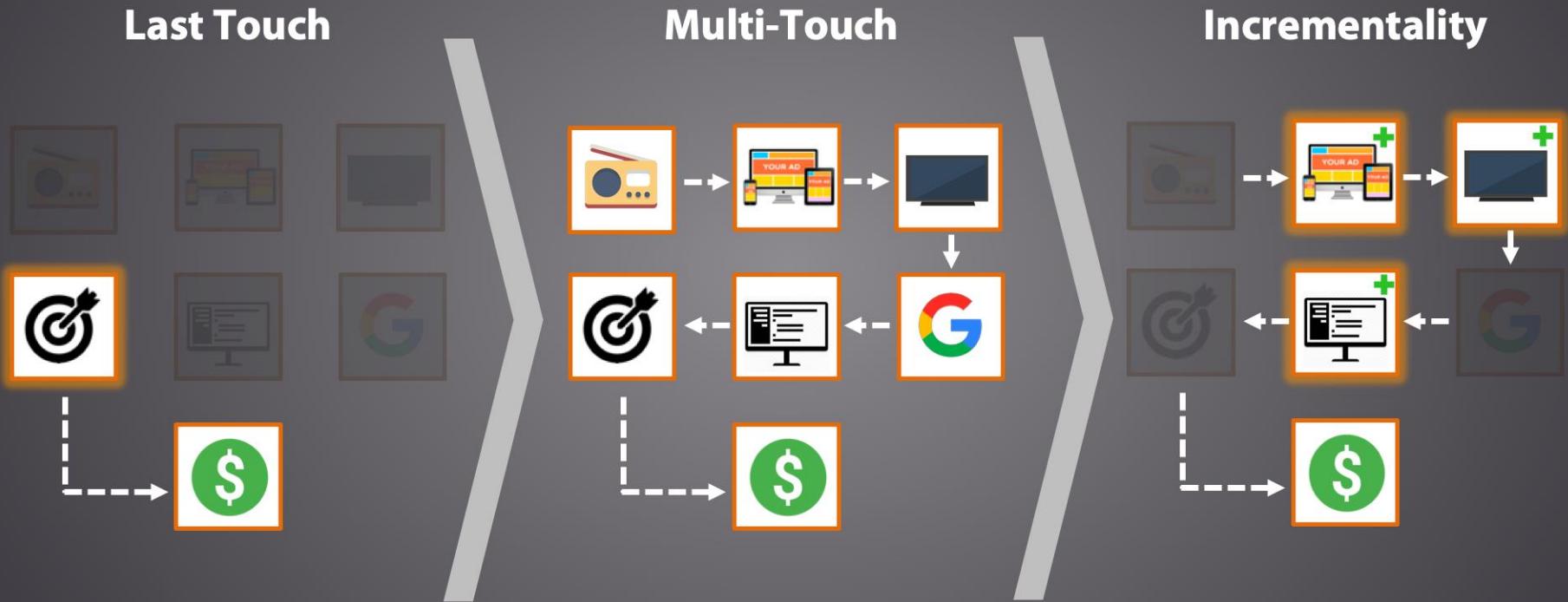
How do you successfully close the loop in an open ecosystem? The first step is to focus on multi-touch attribution. It's not enough to measure each channel individually, they need to be viewed collectively.



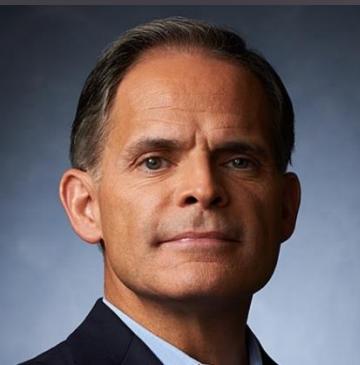
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True Attribution Focuses on Incrementality



Not only do we need to move from last touch to multi-touch attribution, but the next step is focusing on incrementality. Even once all the touchpoints are known, it's crucial to know which touchpoints truly drove conversion and which were just noise. This is a very challenging problem to solve, but has begun to garner increased attention.



What Should Brands be Focusing On?



Forest for the Trees

Parsing the Real Trends in Marketing



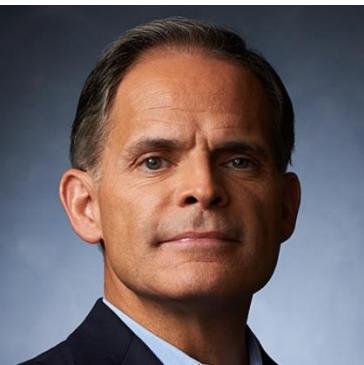
As of late, we have been talking to marketers around this notion of "Forest for the Trees," which highlights which trends brands should be focusing on.



FOLLOW THE CONSUMER



We suggest a good methodology is to follow the consumer. There is a lot to be learned by following and understanding what the consumer is doing.



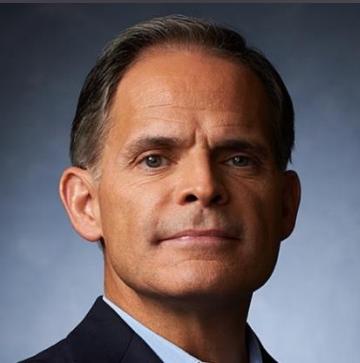
Consumers Driving Innovation



**Direct-to-Consumer
(D2C)**



**Convergent TV
(CTV)**

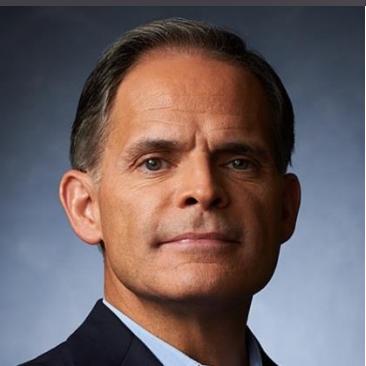
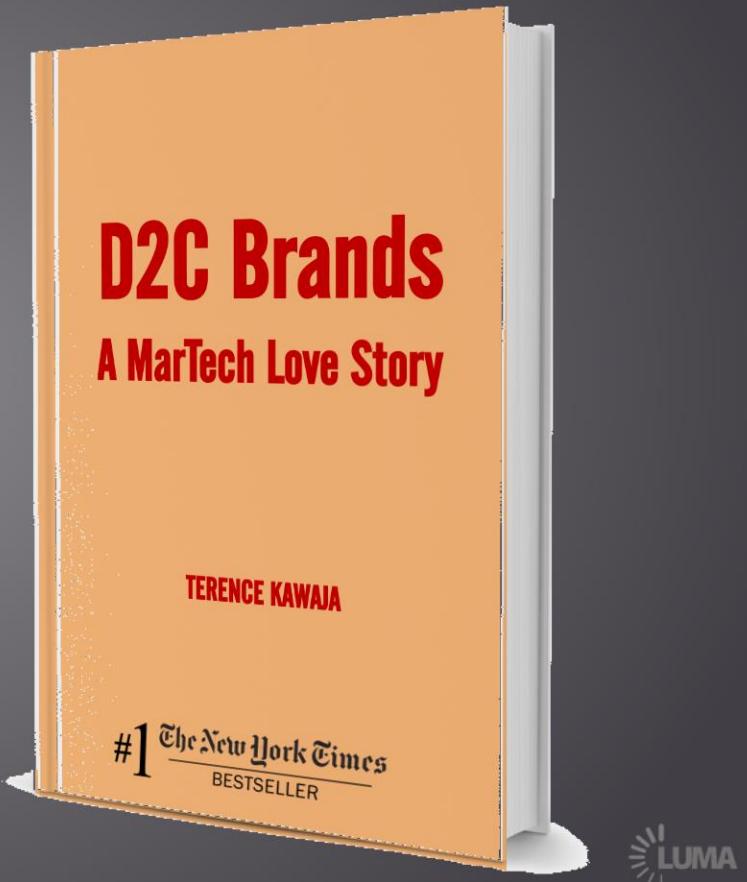
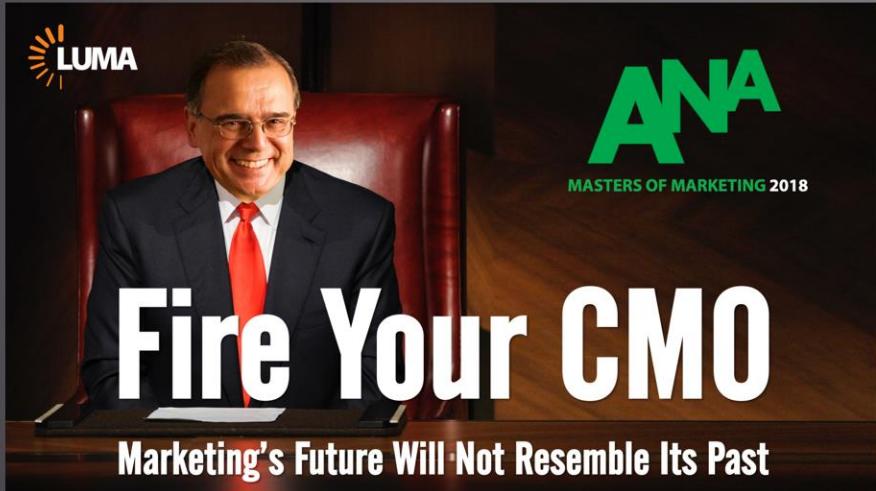


The two biggest consumer-led trends that Marketers should be focused on are: Direct-to-Consumer (D2C) and Convergent TV (CTV).

We'll start by digging into D2C.



How We're Talking About D2C



We came out with a presentation last year titled "Fire Your CMO," which focused on the rise of D2C brands and what lessons marketers should take from this. While suggesting that companies fire their CMO was a good way to wake up the room, the real story is that these D2C brands have done an excellent job at leveraging marketing technology. The D2C phenomenon could also be described as "A MarTech Love Story."

D2C Rapidly Taking Significant Market Share

CATEGORY	RAZORS	SHOES	MATTRESSES
D2C BRAND MARKET SHARE	12%	15%	20%
ILLUSTRATIVE COMPANIES	DOLLAR SHAVE CLUB HARRY'S	allbirds M . G E M I	Casper TUFT&NEEDLE
CATEGORY INCUMBENTS	Gillette	adidas	Sealy

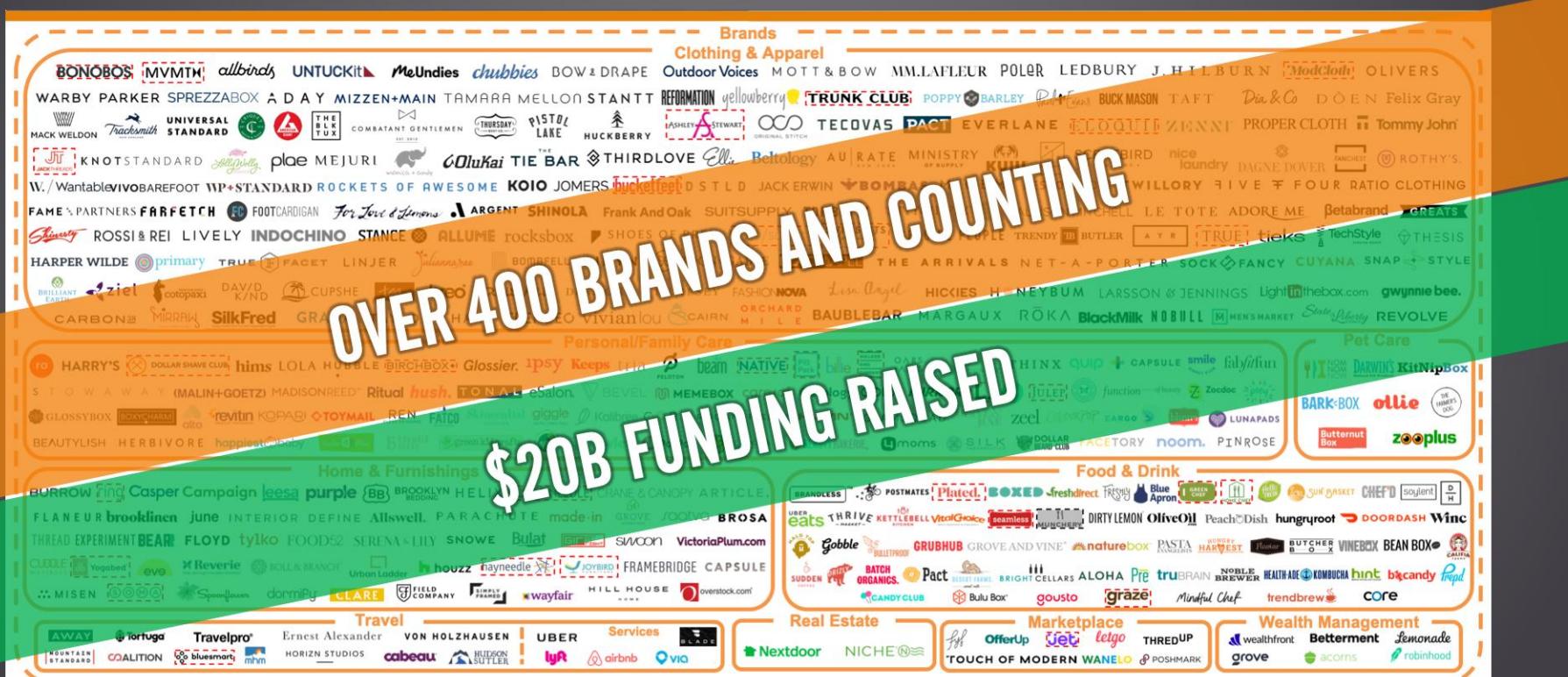
Source: Fox Business, IAB, Axios



We've seen relatively young startups with minimal funding garner double-digit market shares against category incumbents who have been building brand equity, sometimes for decades.



D2C Brands Are Rapidly Proliferating



Source: Pitchbook

And it's rapidly proliferating. We have accounted for over 400 brands, which span across nearly all verticals and have attracted \$20 billion in funding in a short amount of time.



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The DNA of D2C Brands



- 1) Digital native; mobile-centric**
- 2) Focus on product design / UX**
- 3) Disintermediation (agencies, retailers, etc.)**
- 4) Identity-focused customer relationship**
- 5) Performance-oriented media spend**
- 6) Content marketing for brand storytelling**
- 7) Growth-focused marketing talent**



What makes these D2C brands different? Here are our DNA traits of D2C. They are: 1) digital native, mobile-centric, 2) focus on product design, 3) disintermediate the middlemen, 4) use identity-focused CRM, 5) have a performance-oriented approach to marketing, 6) place emphasis on content marketing to tell their story, and 7) deploy marketing professionals with different talents than traditional brand marketers.

Marketers Taking Notes from D2C Brands



D2C PLAYBOOK



Take Control of Data



Focus on Innovation to Launch
D2C Brands



Make Venture Investments in
D2C Startups



Make Strategic Acquisitions



Marketers are now taking notice and learning from D2C brands in order to compete. Incumbent brands are cognizant of the direct brand phenomenon and are taking steps to participate in the opportunity such as taking control of their data, launching D2C brands, investing into D2C startups and making strategic D2C acquisitions.



Incumbent Brands Acquiring Into D2C

Walmart 

amazon 

Unilever 

Edgewell™
PERSONAL CARE


NORDSTROM

MOVADO

Albertsons 

Kroger 

P&G 

\$10B

Total Value

~5x

Average Rev Multiple

jet 

DOLLAR SHAVE CLUB 

BONOBOS

HARRY'S

MVMT 

NATIVE

ring

ELOQUII

graze

TRUNK CLUB

Plated.

Pill Pack 

HOME CHEF 

WALKER
AND
COMPANY

Source: Pitchbook



The most prevalent aspect of the D2C playbook has been strategic M&A! With the recent announcement of Edgewell acquiring Harry's for \$1.4 billion, we have now seen \$10 billion in deals with incumbent brands acquiring into D2C. With an average revenue multiple of 5x, these companies are garnering valuations well beyond traditional competitors.



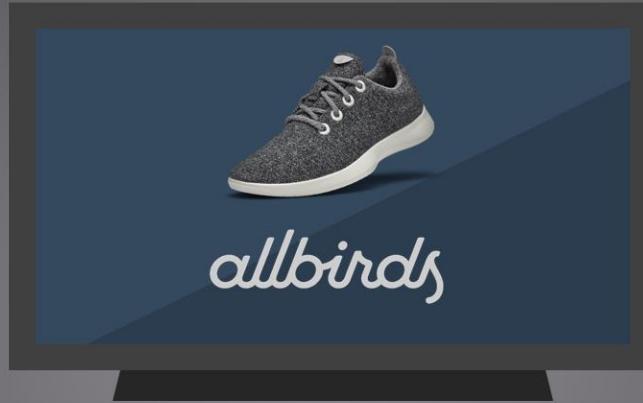
Applying Data-Driven Tech to Traditional Channels



While these brands started their journey on the digital channel, heavily relying on social media to market to the consumer, we are now seeing the need for D2C brands to move beyond digital to achieve scale. So far, we've seen forward integration into physical retail and the utilization of audio/voice and Out-of-Home (OOH) as new advertising channels.



Applying Data-Driven Tech to Traditional Channels



DIGIDAY

Pivot to traditional: Direct-to-consumer brands sour on Facebook ads

JUNE 7, 2018 by [Ilyse Liffreing](#)

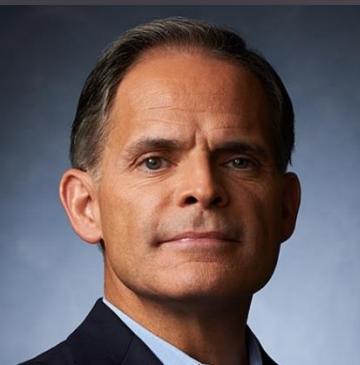


Why DTC Brands Are Flocking To Television

by James Hercher // Monday, April 29th, 2019 - 5:19 am



Beyond those channels, we feel that TV will provide the most significant opportunity for the continued growth of D2C brands, especially as television capabilities continue to evolve.



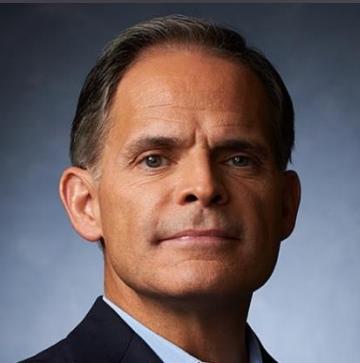
Consumers Driving Innovation



**Direct-to-Consumer
(D2C)**



**Convergent TV
(CTV)**



This brings us to Convergent TV.



The Conundrum of TV's Future

Forbes

As Television Gets More Digital,
TV Advertising Needs To Follow
Suit

10,348 views | Mar 1, 2018, 09:32am

**BUSINESS
INSIDER**

Cord Cutting Is Real: Pay TV Loses Subscribers For The
Second Straight Quarter

Jay Yarow Nov. 17, 2010, 1:01 PM



**Internet TV and The Death of Cable TV,
really**

Jon Orlin @jonorlin / 8 years ago

MARTECH TODAY

Traditional TV rolls with the times, remains a
viable entertainment channel to both viewers
and advertisers

Robin Kurzer on June 22, 2018 at 9:17 am

CMO
by Adobe

TV Advertising Isn't Dead—It's Evolving

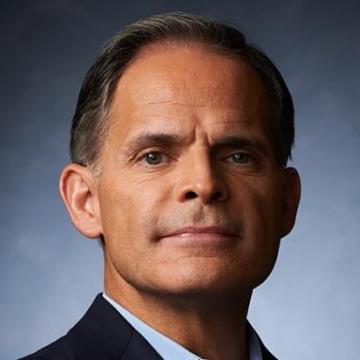
SmartBrief

Here's why TV is still the most powerful ad medium

Daniel Gulick · August 28, 2018

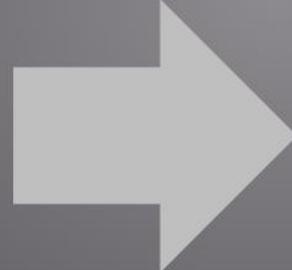
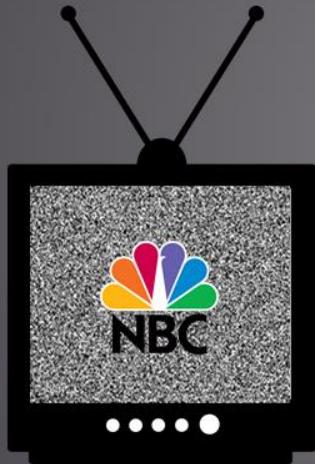


For years we have been hearing that TV is dead or dying and that it needs to fundamentally change. But the reality is that the TV upfronts continue to get stronger and the business of TV is still powerful. So how do we make sense of this conundrum? We believe it is a natural gestation of TV's evolution that needs to work its way through to the end.



Consumers Have Fully Converged

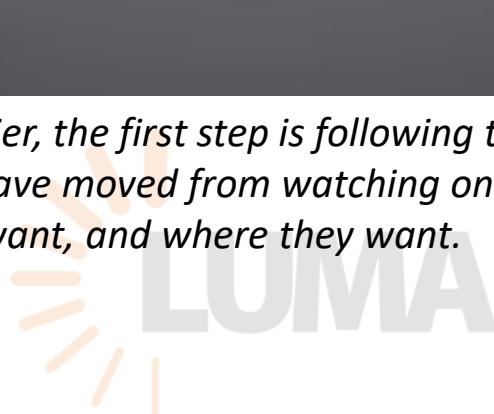
One Screen
Watch what's on



Multiple Screens / Options
Watch what you want, when you want, where you want



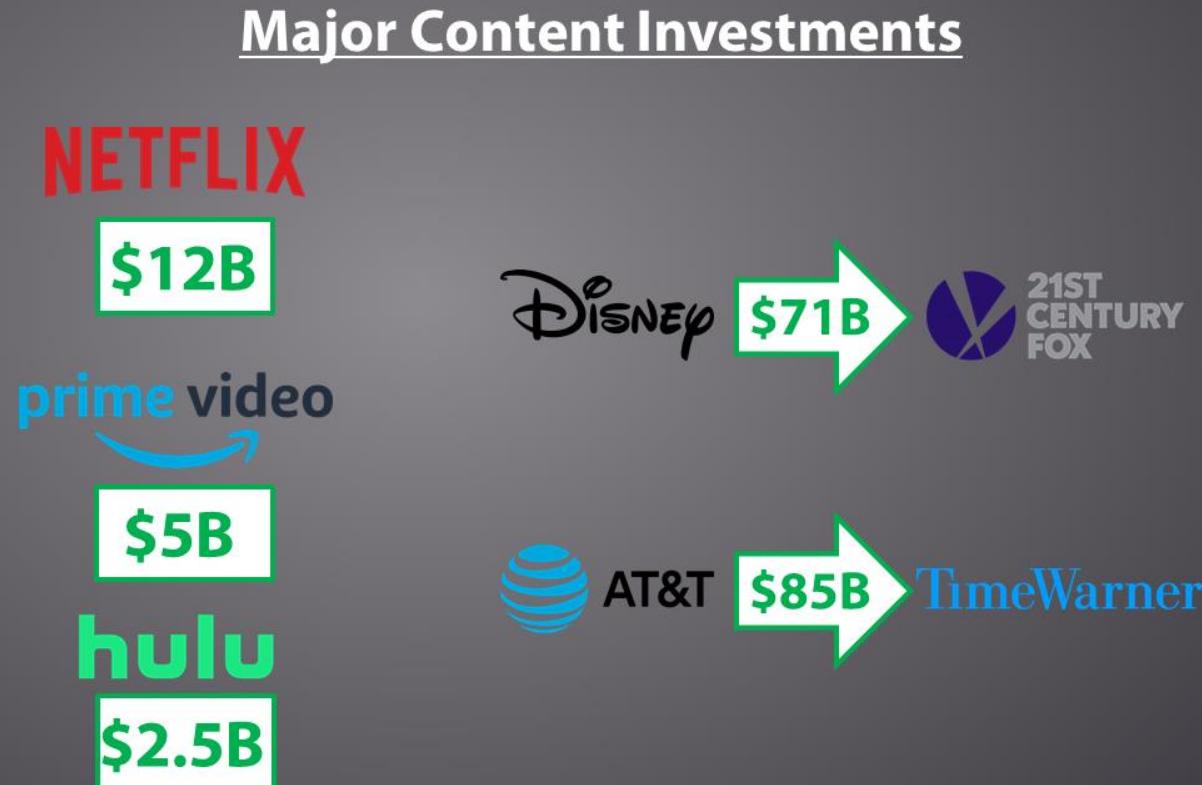
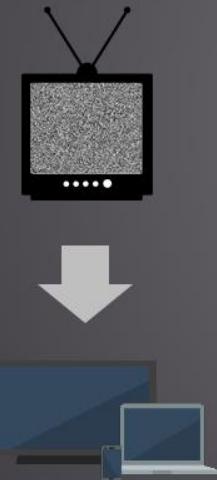
As mentioned earlier, the first step is following the consumer, and consumers have fully converged. They have moved from watching on one screen, to now watching what they want, when they want, and where they want.



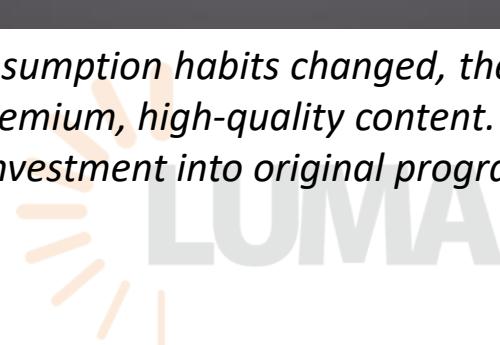
Consumption Led To Investment in Quality Content

1

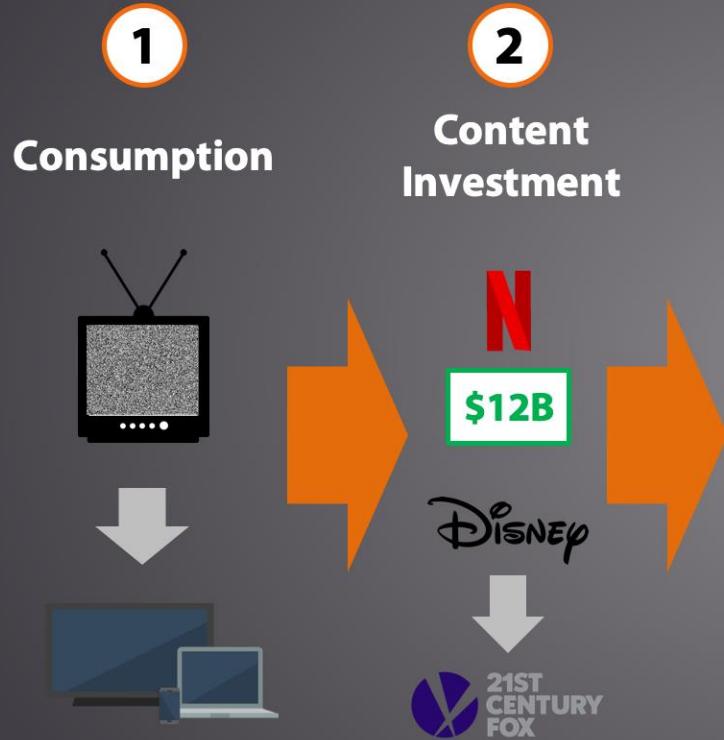
Consumption



As consumers' consumption habits changed, the next phase in this gestation was investment into premium, high-quality content. We have seen this come to fruition through internal investment into original programming, and also through major M&A transactions.



Now We're Seeing Technology Investment



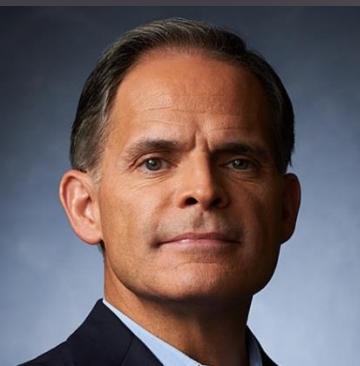
Strategics Focused on CTV Tech



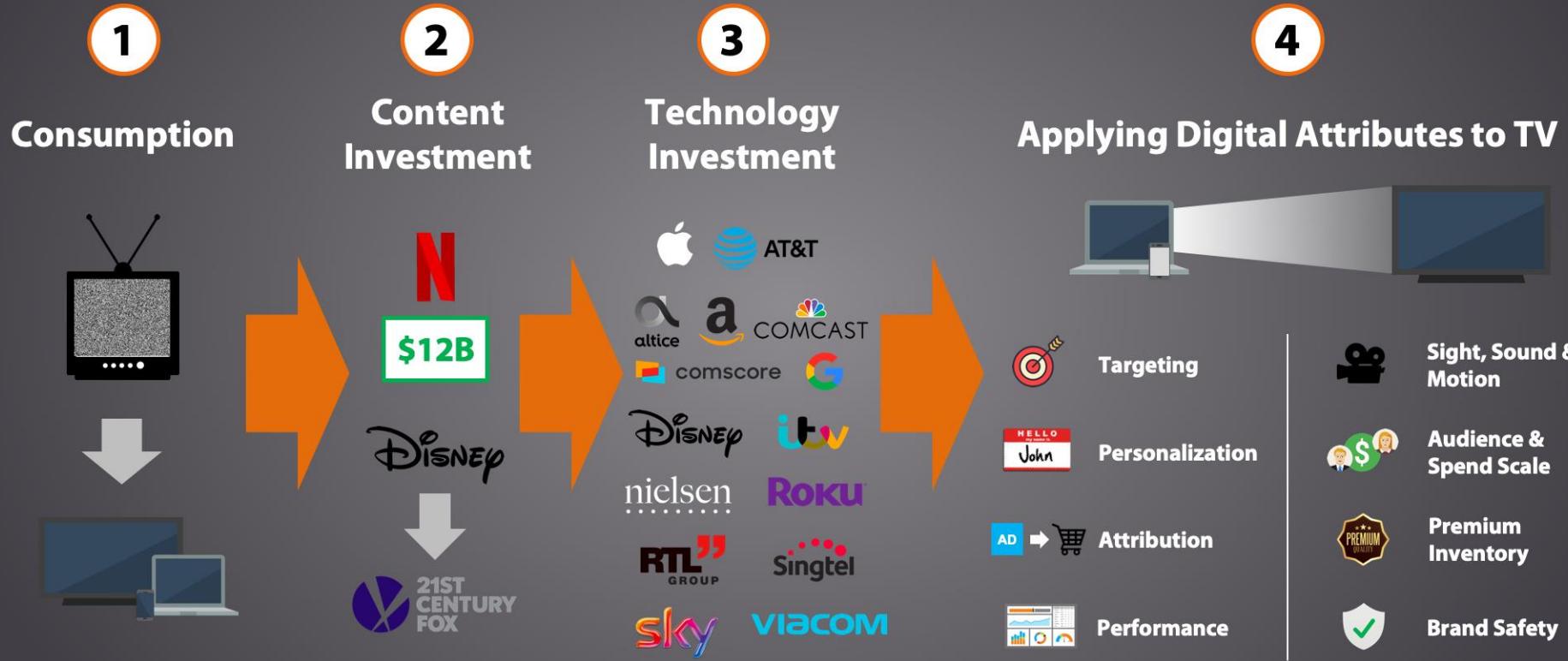
OVER \$3B IN M&A DEALS



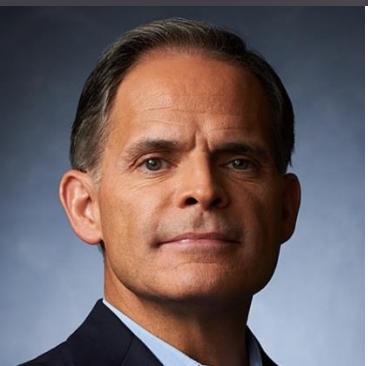
The third component involves technology investment to support the evolution of television advertising capabilities. We have seen strategics invest in their own CTV technologies and acquire assets in order to bolster their existing tech stack.



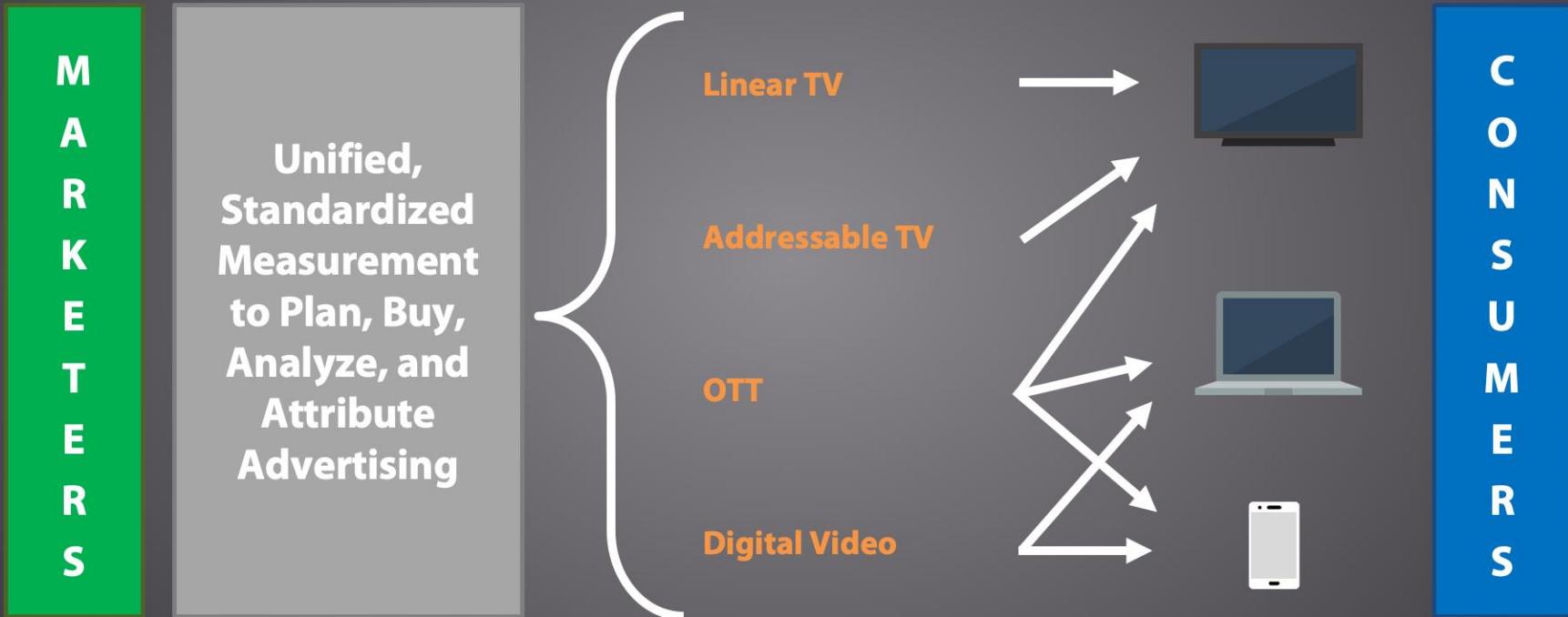
Next Up: Advertising Adoption



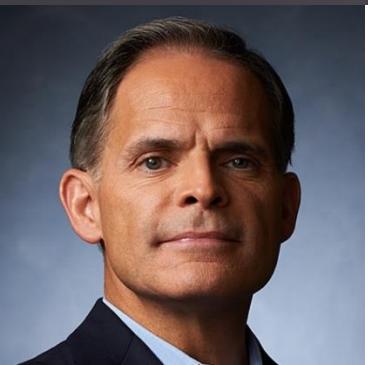
The first three phases of this gestation has set us up for the next and final phase: advertising adoption. This adoption phase will bring the digital attributes of targeting, personalization, attribution and performance to TV's sight, sound and motion format, audience and ad spend scale, premium inventory, and brand safety.



Complexity Has Kept Ad Adoption at Bay



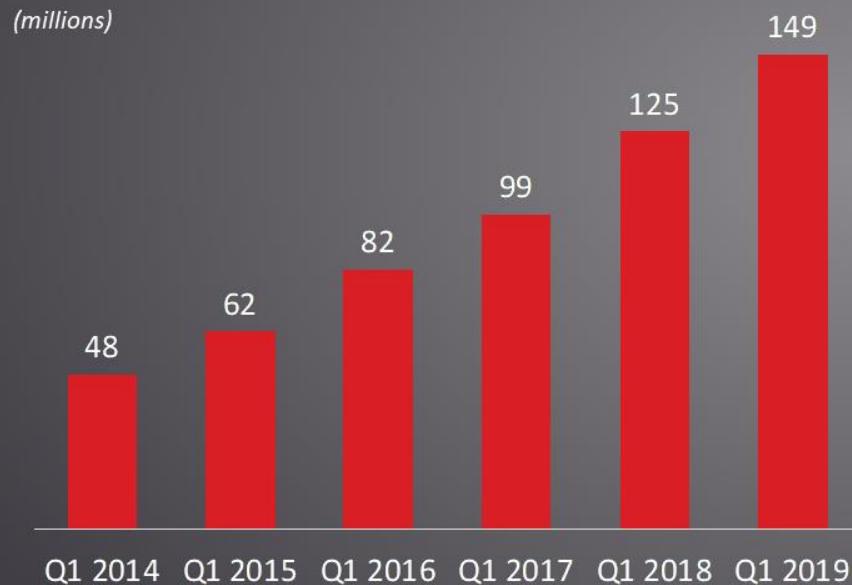
Complexities around figuring out how to unify a buy across all forms of video, whether it may be linear, addressable, OTT or digital, remains a challenge. For a holistic perspective on channel spend, marketers need a unified, standardized way of being able to plan and buy TV media.



Meanwhile, Streaming Wars In Full Force

NETFLIX

USER GROWTH



MARKET CAP GROWTH



Source: Company filings, Thomson Reuters, market data as of 5/10/2019.



Meanwhile, the streaming wars are in full force. Category leader Netflix has continued to dominate, growing 45% over the past 5 years and hitting nearly 150 million users earlier this year.

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Meanwhile, Streaming Wars In Full Force

NETFLIX



USER GROWTH

(millions)

125
149

(\$ in billions)
\$200
\$180

MarketWatch

Netflix at risk of losing 8.7 million subscribers to Disney+, survey finds

Published: Apr 25, 2019 2:59 p.m. ET

Q1 2014 Q1 2015 Q1 2016 Q1 2017 Q1 2018 Q1 2019

(millions)

SATP GROWTH

\$60
\$40
\$20
\$0

Ja



Source: Company filings, Thomson Reuters, market data as of 5/10/2019.

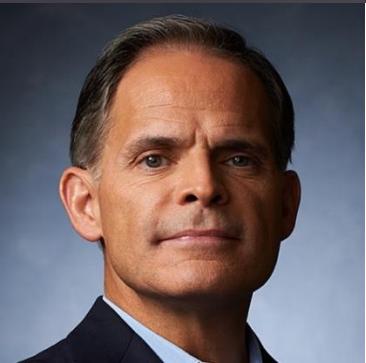


But new competition has come to the forefront. Most notably, Disney announced earlier this year their own streaming service, Disney+, which will combine both owned and acquired assets to compete in the streaming wars. Additionally, Apple has announced a new streaming service, while traditional competitors Comcast NBCUniversal and AT&T have also announced upcoming proprietary streaming services. Let the games begin!

SVOD & AVOD: Balancing the Scales



A lot of attention has been given to the subscription video on demand (SVOD) services, thus tilting the scales decidedly in their favor. But we are seeing advertising video on demand (AVOD) services work to balance the scales.

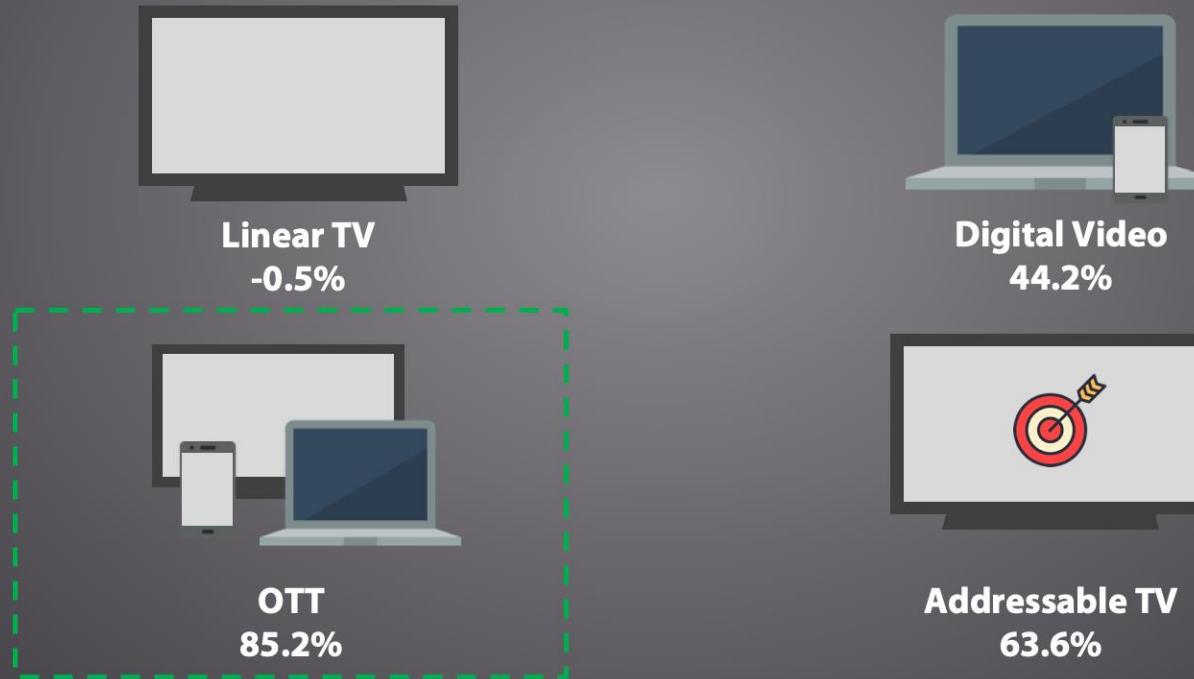


LUMA



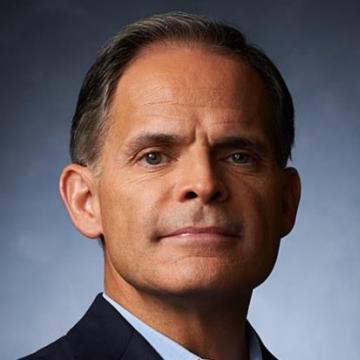
OTT & Addressable TV at Inflection Point Growth

Ad Spend Growth by Format
(2018-2020)

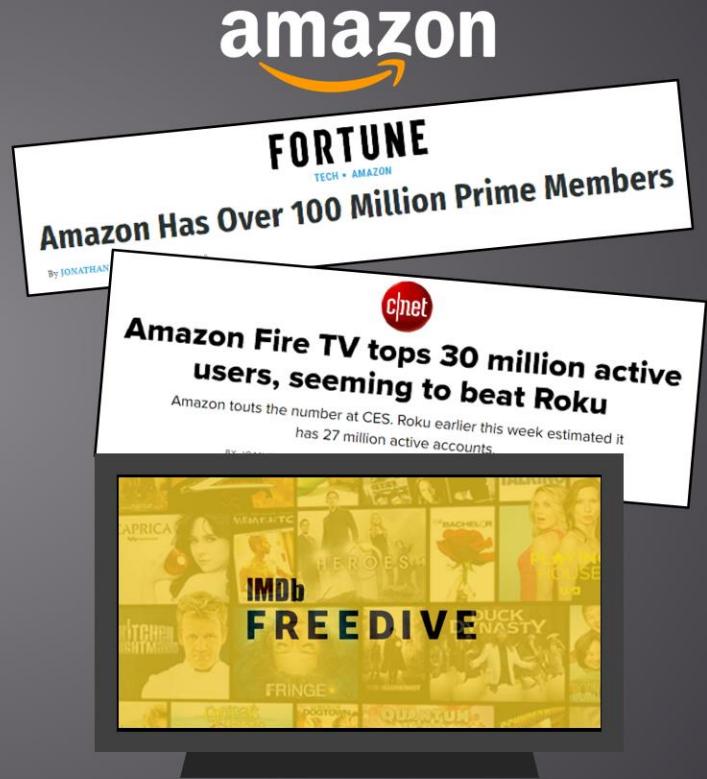
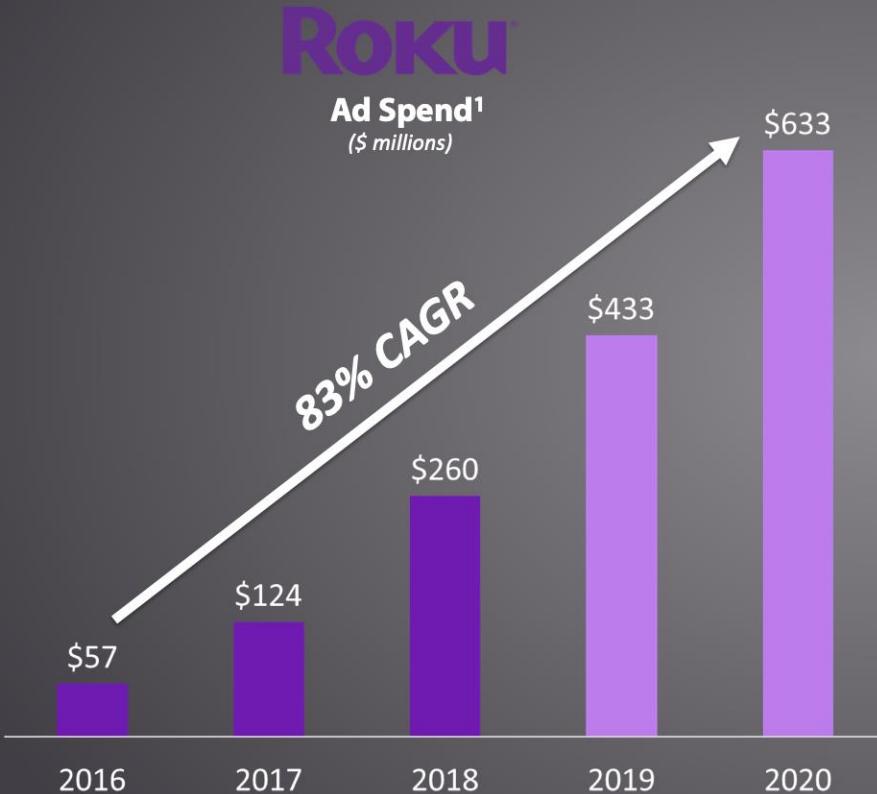


Source: Magna, eMarketer

OTT TV offers a huge opportunity in advertising as ad spend across the channel is forecasted to grow 85% over the next few years.



Roku & Amazon Leading AVOD Adoption



Sources: (1) eMarketer



Much of this growth can be attributed to players such as Roku and Amazon. Roku leads the way in AVOD adoption, with \$633 million in ad spend expected next year. Additionally, Amazon has gotten into the AVOD space as well with the recent announcement of IMDb Freedive, and a built-in audience of 100 million Amazon Prime members.

Traditional TV Acquiring Their Way In

VIACOM

\$340MM

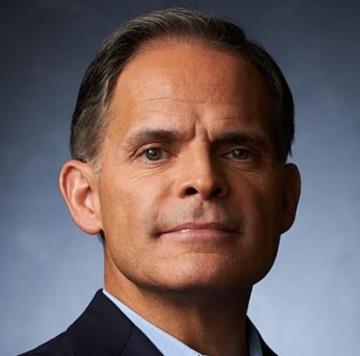
PLUTO TV

altice

\$200MM

cheddar

Source: Pitchbook, Company Filings



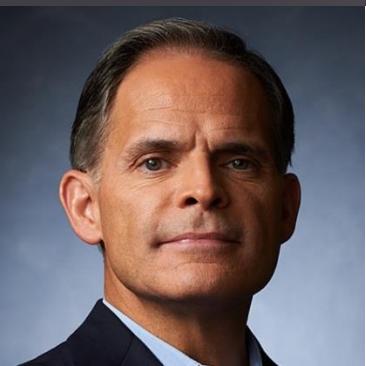
Traditional TV players are acquiring their way in, most notably with Viacom's acquisition of PlutoTV and Altice's acquisition of Cheddar.



SVOD & AVOD: Balancing the Scales



With both organic and inorganic growth, AVOD will continue to work to balance the scales and offers a huge opportunity in TV advertising's future moving forward.



Digital Publishing Facing Continued Challenges

Layoffs



Write-Downs



Fire Sales



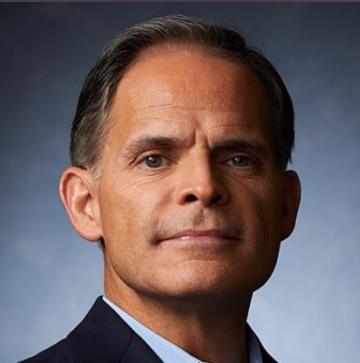
Billionaires' New Charity Case



Philanthropy



Speaking of publishers, digital publishers on the print media side have seen better days as that ecosystem continues to face a number of challenges. From major layoffs, to write-downs and fire sales, and even exits via billionaire philanthropy, these issues have cast a dark cloud across the digital publishing landscape.



But There Are Bright Spots



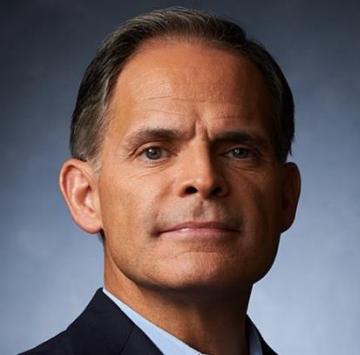
~12MM Monthly Unique Visitors
100% Revenue Growth

The New York Times

~3.5MM Digital Only Subs
15% LTM Digital Rev. Growth



Sources: INMA, Company filings



But there are bright spots! Axios continues to impress as they double revenue year-over-year and attract 12 million monthly unique visitors. And The New York Times is pushing forward after transitioning from primarily advertising to a growing digital subscription business with 3.5 million subscribers and 15% digital revenue growth. We look forward to seeing continued success from these industry leaders.

Emerging Technologies



Audio
& Voice



Artificial
Intelligence

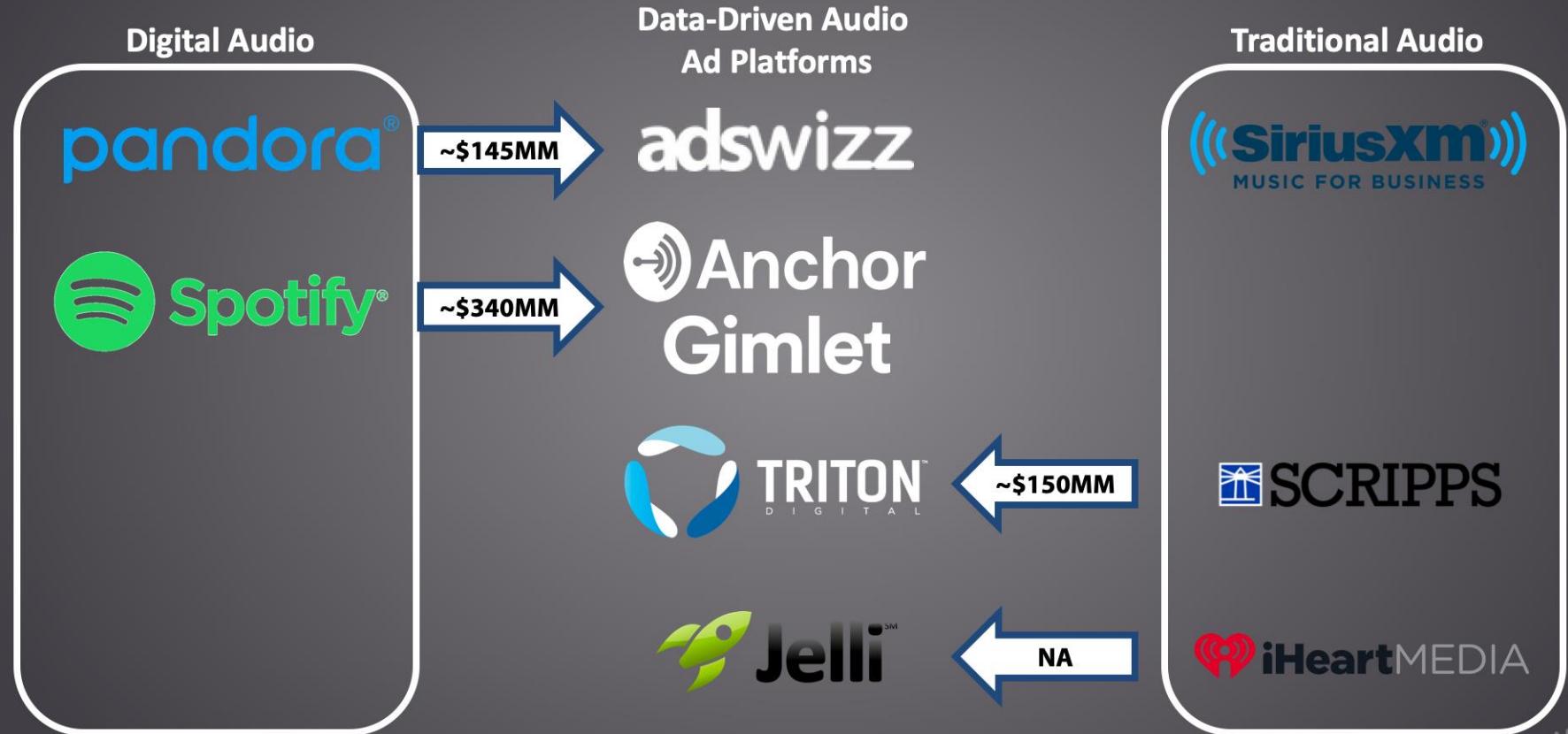


Looking ahead, it's important not to get distracted by shiny new objects and to focus on the emerging technologies that will have an impact within digital media moving forward, which we see as Audio/Voice and AI.

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The logo consists of the word "LUMA" in a large, bold, grey sans-serif font. To the left of the "L", there are several thin, orange, curved lines of varying lengths radiating outwards, resembling a stylized sunburst or a series of reflections.

Audio Becoming More Data-Driven



Source: WARC Data Global Ad Trends, April 2019 – Podcasts

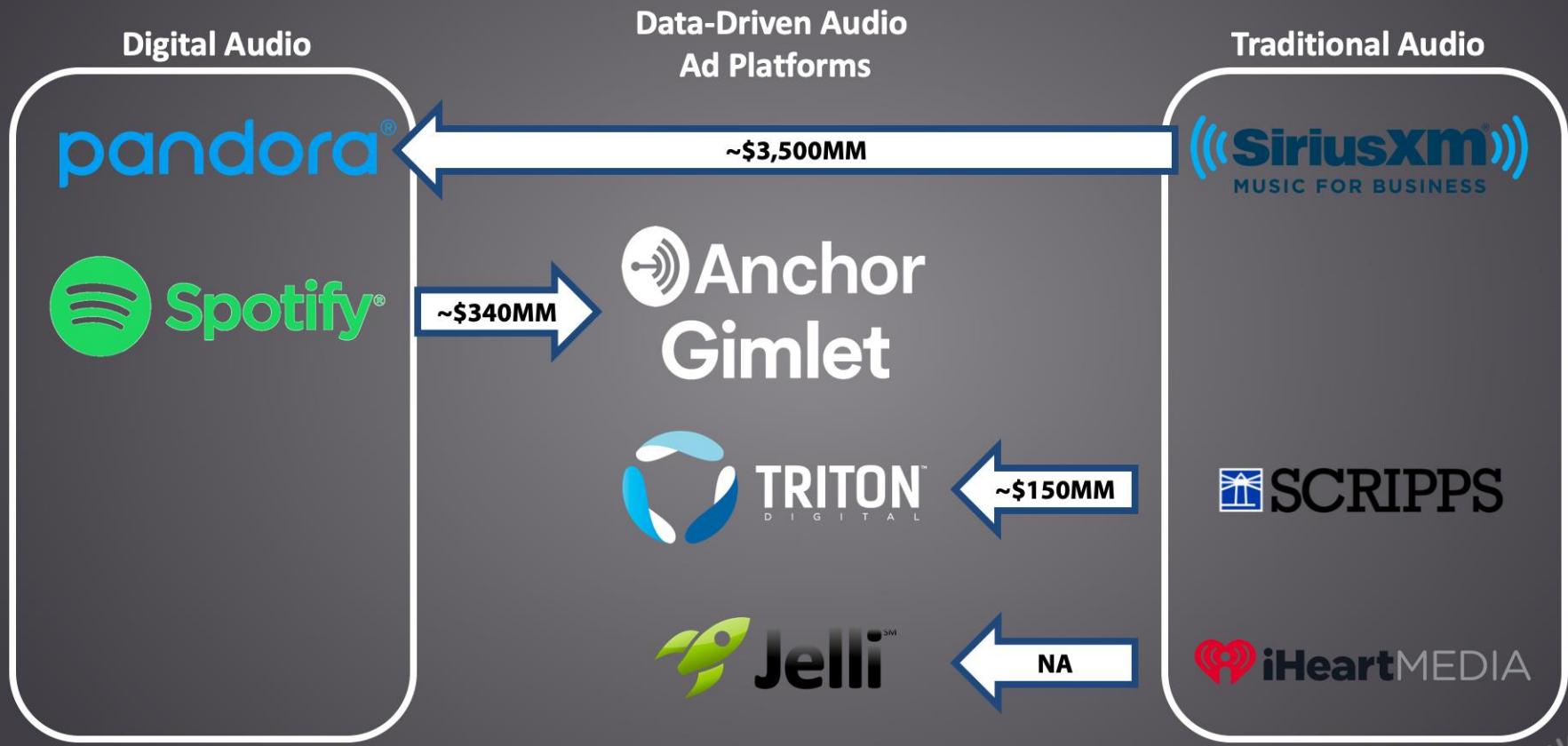
M&A activity around data-driven audio has ramped up in the past year, with players from both traditional audio and digital audio making significant investments into a data-driven audio future.



LUMA



And M&A is Blurring the Lines



Source: WARC Data Global Ad Trends, April 2019 – Podcasts

And these investments are even blurring the lines between digital and traditional audio players.



Rapid Podcast Growth Leading to Investment

Projected Podcast Advertising Spend: 2018 and 2022

in \$ millions



Acquisition
~\$340MM



Venture financing
~\$100MM*



~\$440MM in Podcast
investment since early 2018



Source: Pitchbook, Crunchbase, Company filings, Anchor, WARC Data Global Ad Trends, April 2019 – Podcasts; Note: * Denotes Venture Financing



This activity can be mostly attributed to the growth of podcasts as an advertising channel. Although still nascent from a size perspective, podcast advertising spend is expected to grow ~26% over the next several years. This is all despite the fact that Apple currently dominates the podcast market, accounting for over half of all podcast listening.



Smart Speakers Offer Huge Potential for Marketers



**Installed in 55% of US
Households by 2020**

Source: Juniper Research

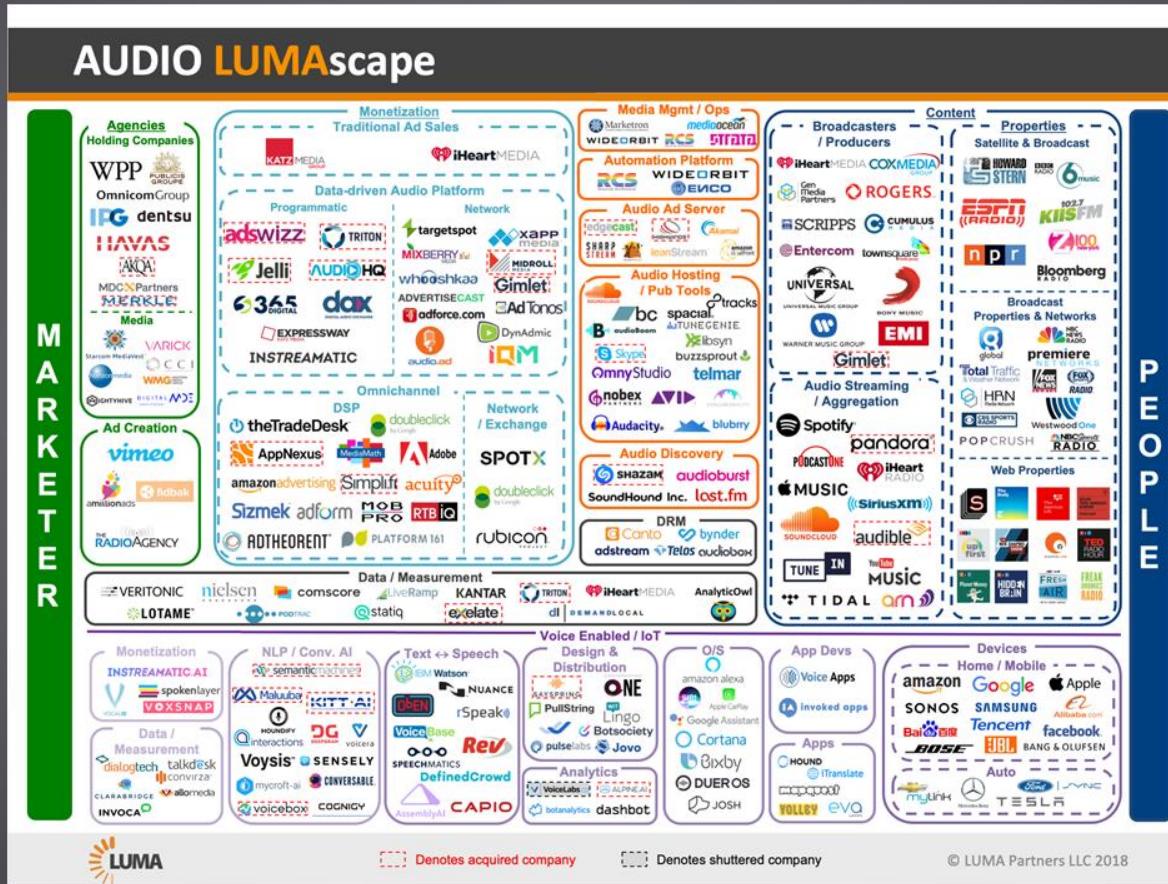


And smart speakers continue to infiltrate homes all across the US, and will be installed in over half of all US households by next year. We suggest keeping a close eye on how voice will be utilized by marketers moving forward, as it has huge potential to capture intent from consumers.

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Introducing the Audio LUMAscape



Because we see tremendous potential in this space, we are excited to announce the addition of the Audio LUMAscape to our collection. I can be separately downloaded here: <https://lumapartners.com/content/lumascapes/audio-lumandscape/>

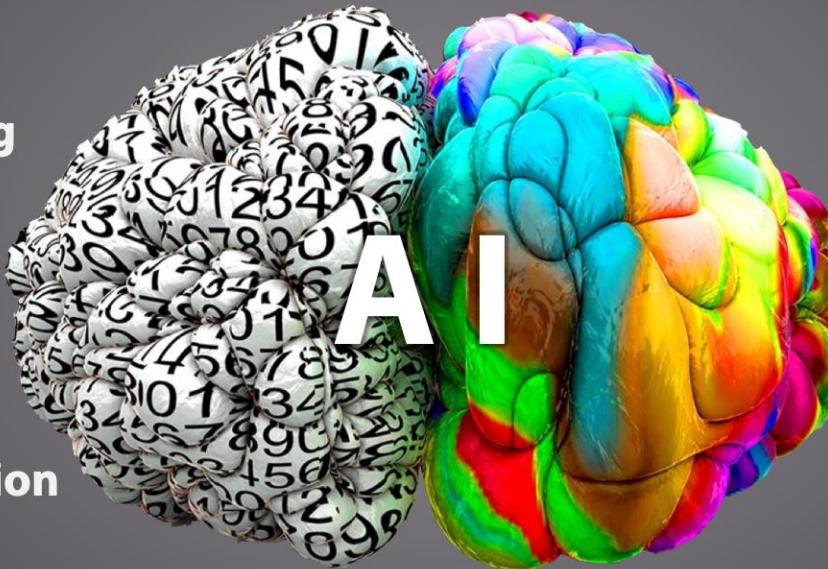


LUMA

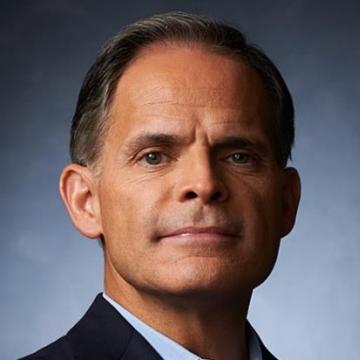


AI Will Be the Intel Inside

Propensity Modeling
Predictive Analytics
Media Buying
Ad Targeting
Lead Scoring
Dynamic Pricing
Marketing Automation



Ad Copy Generation
Automated Content
Content Curation
Chat Bots
Voice Search
Web Personalization



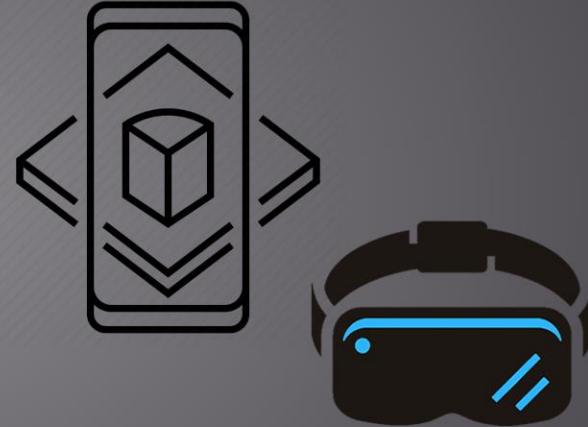
We liken AI's application to "Intel Inside" and believe it will play a huge role in marketing as the underlying technology for many applications. We are used to AI performing a lot of the left-brain capabilities such as propensity modeling and predictive analytics, but what we are excited about are the right-brain capabilities AI has to offer.



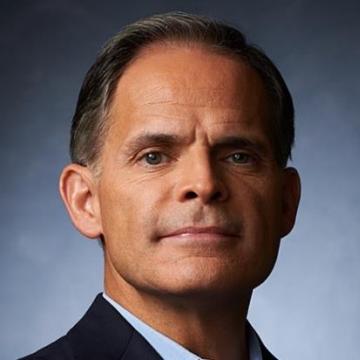
Shiny New Objects, Mostly Still Distraction



Blockchain



AR / VR

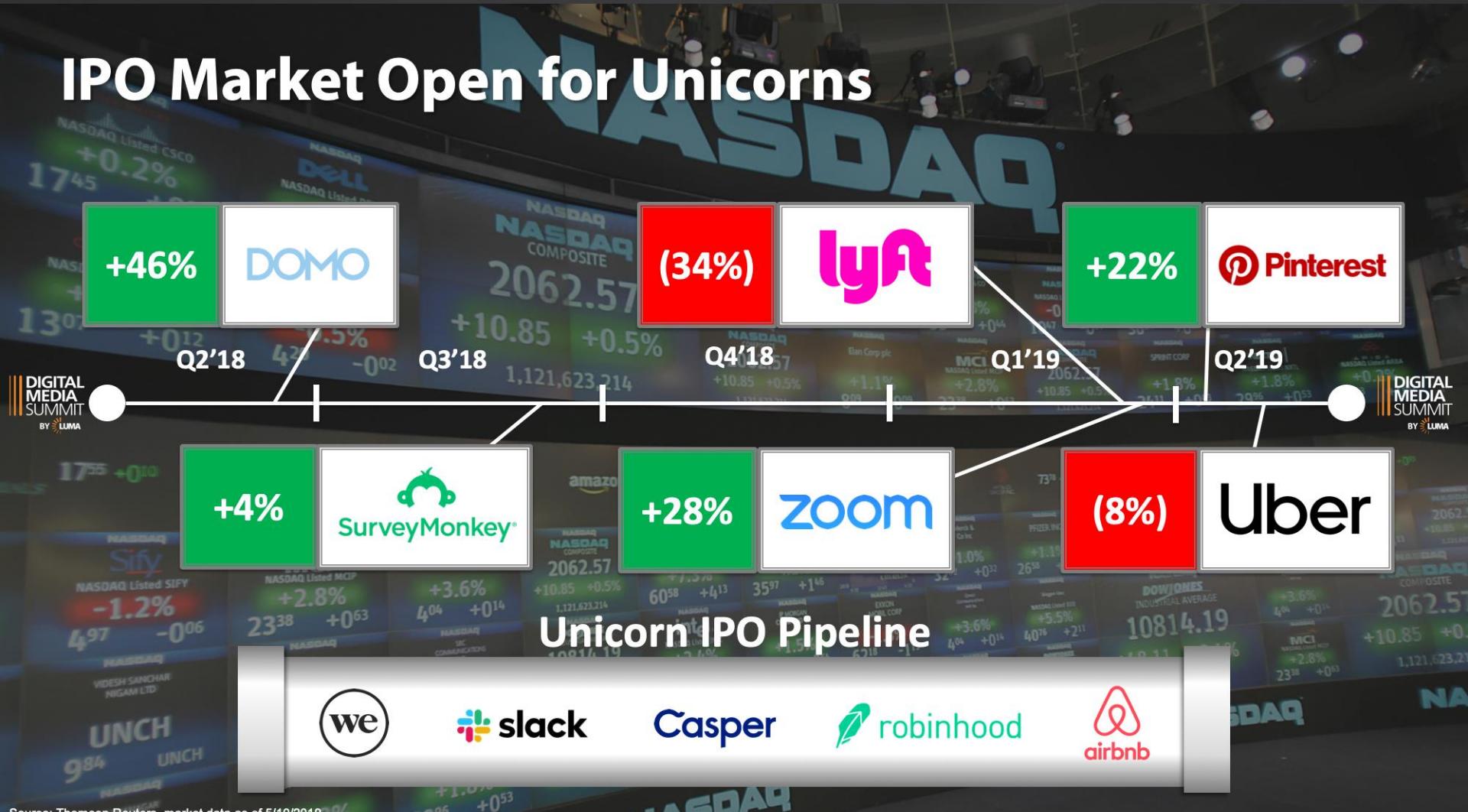


A few trends we suggest putting the hold button on are Blockchain and AR/VR. Although Blockchain is cutting-edge technology with huge potential, we haven't seen the application to marketing yet and it is unclear how that will unfold. Same with AR/VR, where we don't see a lot of scale application for advertising and marketing in the future.

State of the Market



IPO Market Open for Unicorns



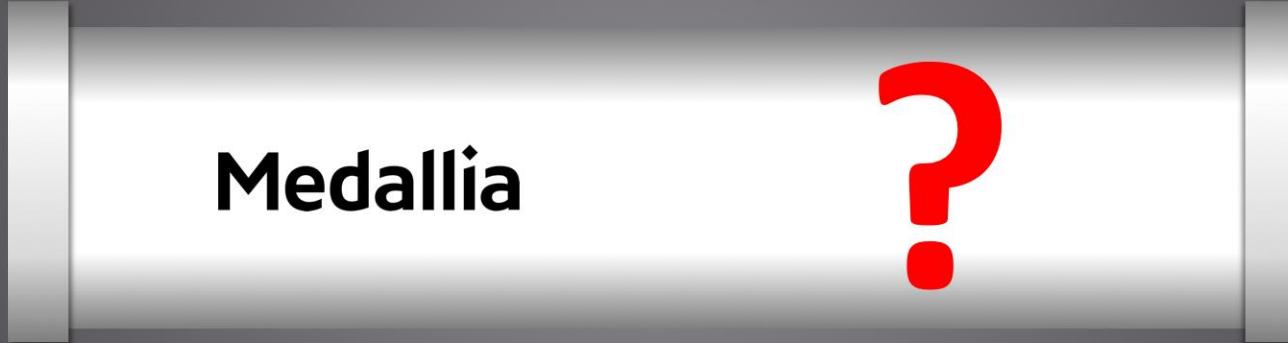
Source: Thomson Reuters, market data as of 5/10/2019



Starting with the IPO market. In 2018, we saw a few scaled MarTech IPOs in Domo and SurveyMonkey that have traded pretty well in the after market. 2019 has looked more like 1999 with the stampede of highly valued, often unprofitable Unicorns finally coming to market. While post-IPO trading results have been mixed, the pipeline remains full across the broader tech sector.

Not So Much for Ad Tech & MarTech

IPO Pipeline



Source: Pitchbook, Company Filings



BUT, in Ad Tech and MarTech, the IPO pipeline remains much more sparse, with only Customer Experience player Medallia planning a listing in 2019.



Strong LTM Stock Performance Across the Board



Source: Thomson Reuters, market data as of 5/10/2019. Analysis includes adjustments to exclude estimated impact of acquisitions greater than \$30 billion in enterprise value.



It was a decent year for tech overall (NASDAQ +9%), and look – unprecedented – our top two areas of focus: MarTech and Ad Tech were #1 and #2 in the charts last year, each up almost 100% since our last DMS.

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Strong LTM Stock Performance Across the Board



While MarTech saw strong performance from almost all players, Ad Tech was driven almost entirely by The Trade Desk which hit \$10 billion in market value last week. Excluding TTD, the market cap-weighted Ad Tech sector was only up 4%.



LUMA

Strong LTM Stock Performance Across the Board



Source: Thomson Reuters, market data as of 5/10/2019. Analysis includes adjustments to exclude estimated impact of acquisitions greater than \$30 billion in enterprise value.

And the rumors of the demise of traditional TV may have been a bit exaggerated as the sector was up 30% last year, mostly on the strong performance of Disney.



LUMA

Strong LTM Stock Performance Across the Board



Source: Thomson Reuters, market data as of 5/10/2019. Analysis includes adjustments to exclude estimated impact of acquisitions greater than \$30 billion in enterprise value.

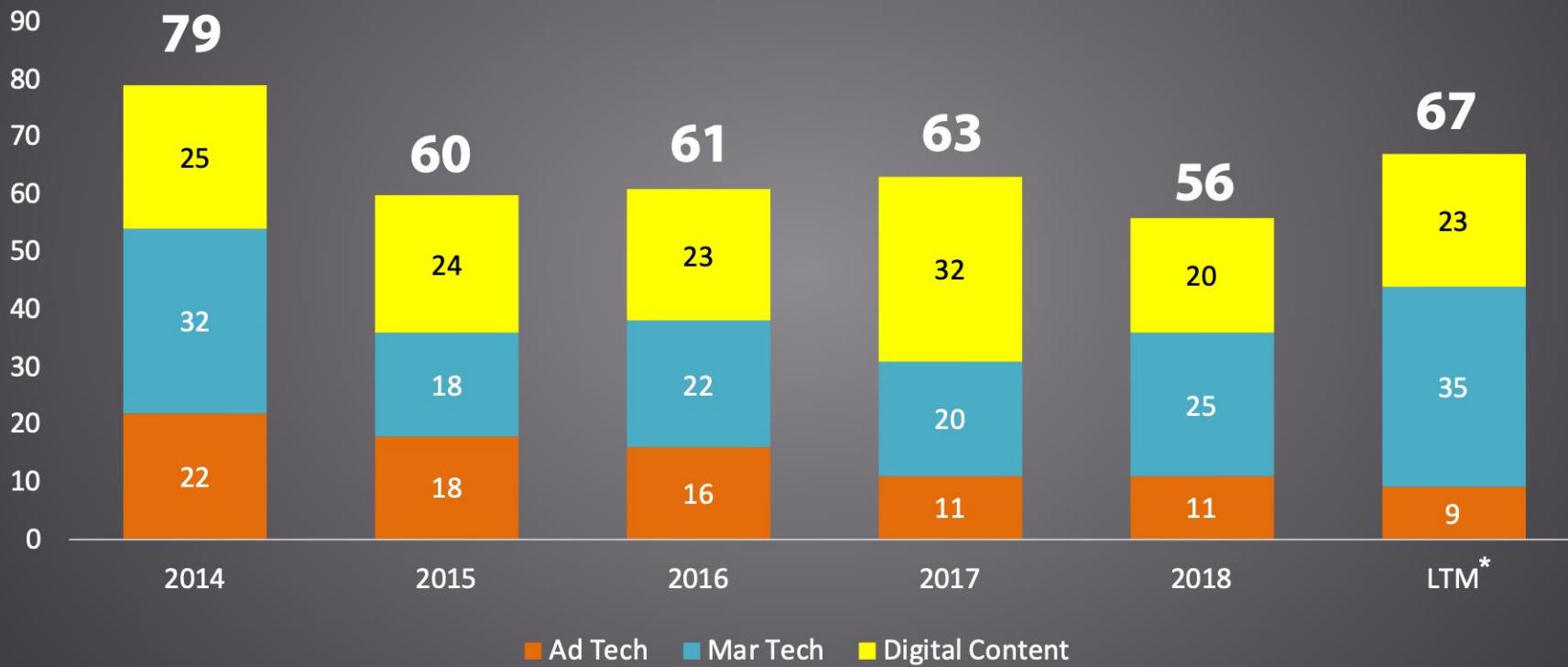
The huge market cap sectors (Telcos, Digital Giants, and Marketing Clouds) all pretty much tracked to market, while the Agencies continued to struggle.



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M&A Remains the Primary Source of Scaled Exits

Transactions Over \$50M



■ Ad Tech ■ Mar Tech ■ Digital Content

*LTM as of DMS 2019; Source: LUMA

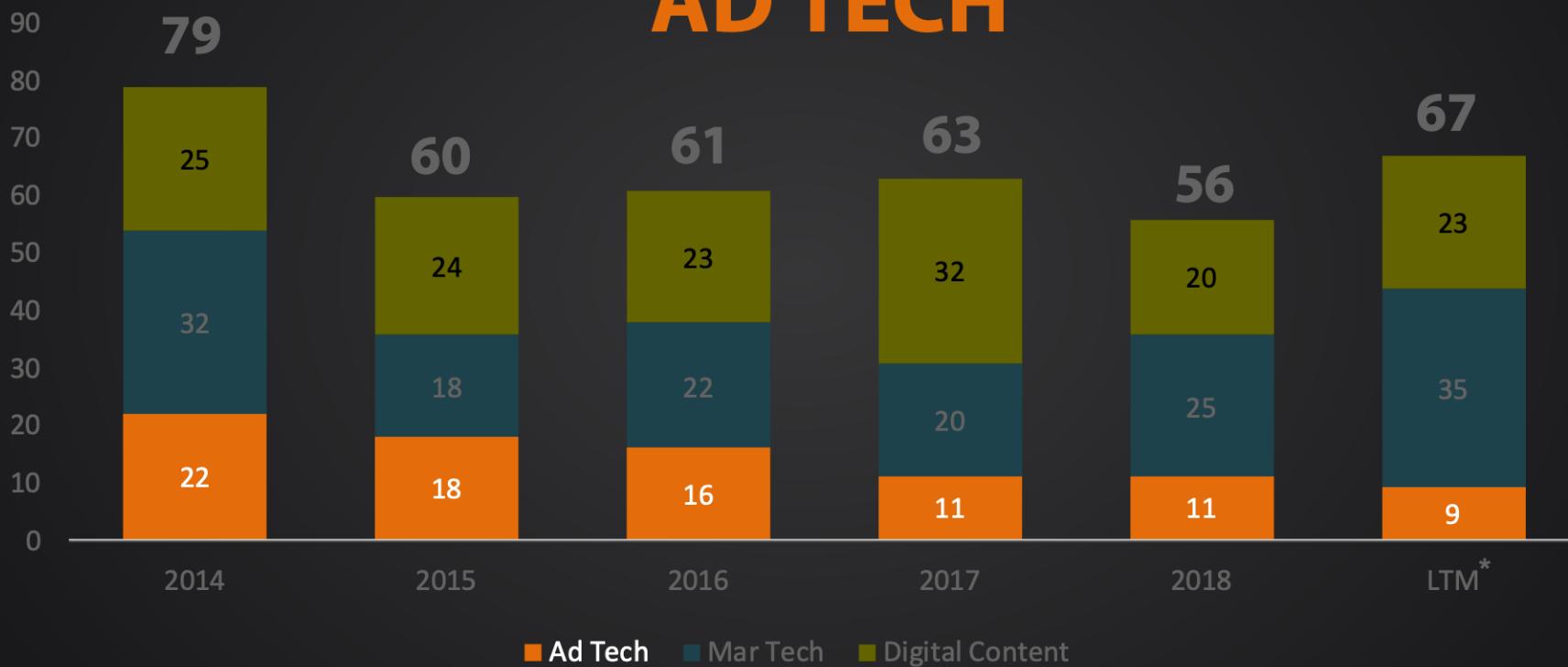


M&A continues to be the primary source of scaled exits across Ad Tech, MarTech, and Digital Content with over 65 deals in the last year compared to only a handful of IPOs.



M&A Remains the Primary Source of Scaled Exits

AD TECH



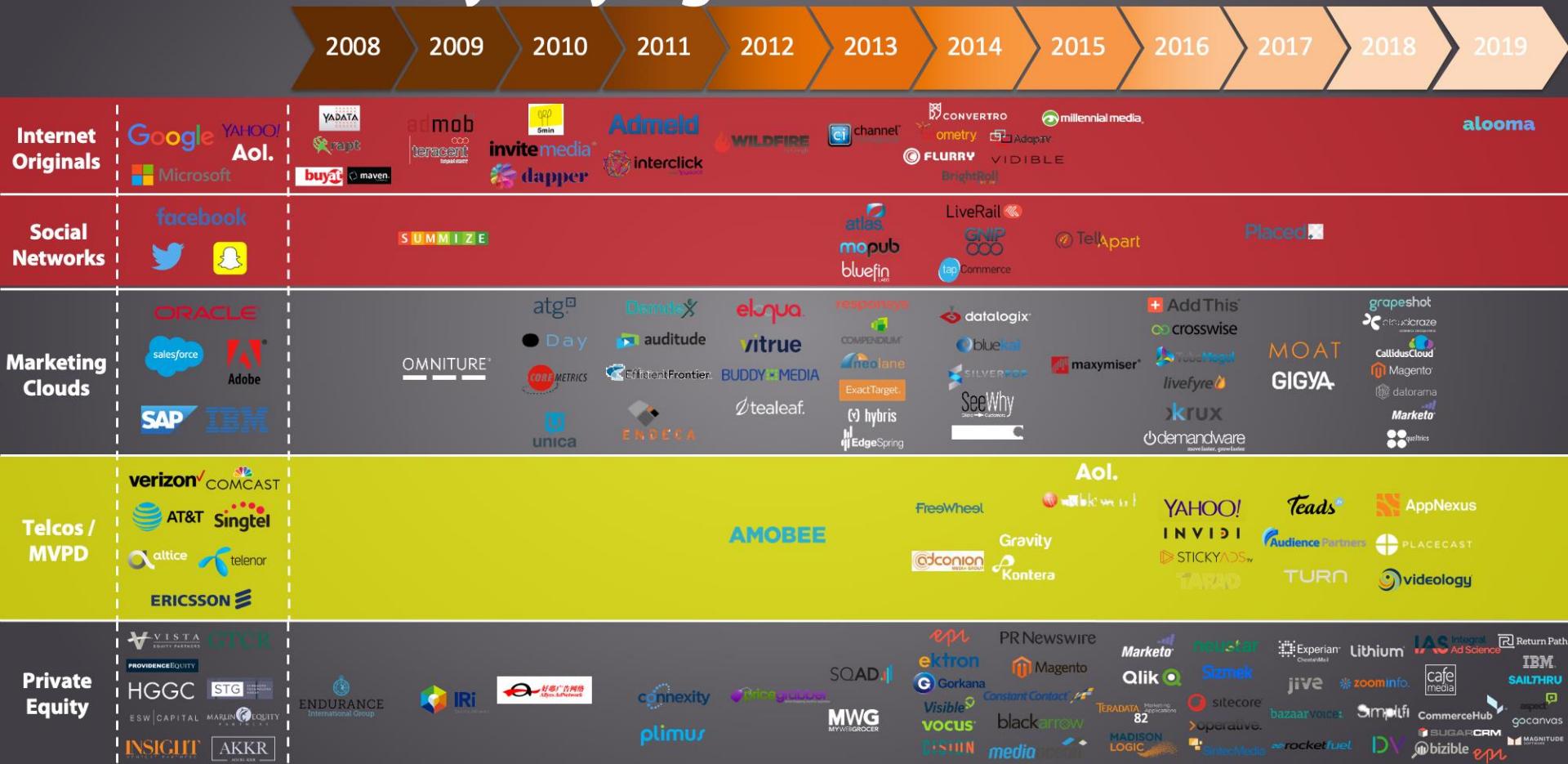
*LTM as of DMS 2019; Source: LUMA



Ad Tech has seen decreasing M&A activity over the last 5 years. To understand this trend, we looked at who has been buying in the sector.



Who's Actually Buying Ad Tech?



Historically, Internet Originals and Social Networks were the most active buyers of Ad Tech. However, as these players have built out their stacks and have increasingly attracted increased regulatory oversight, that activity has slowed to a trickle. Telcos have been modestly active, but with mixed results.



Casualties of Challenging Ad Tech Environment

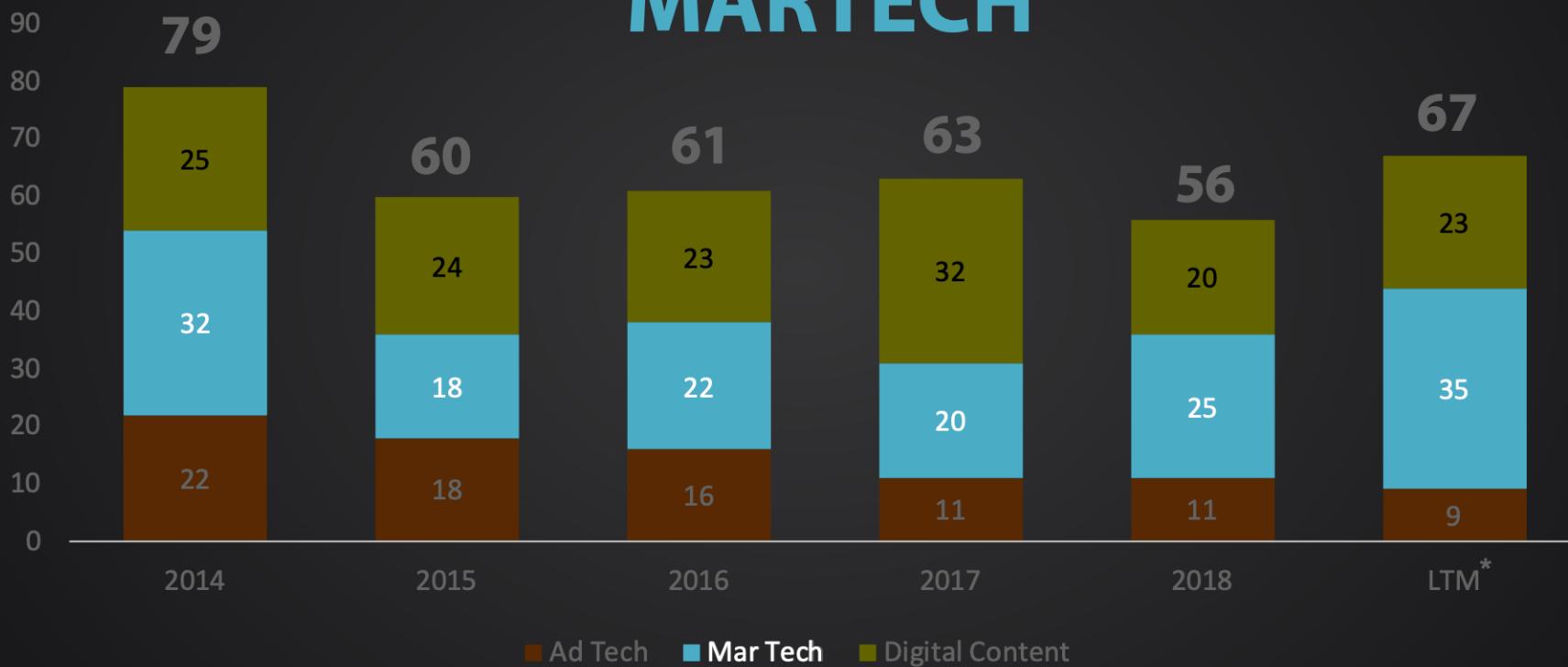


Which has resulted in a supply/demand imbalance among sellers and buyers in Ad Tech. For some time, we've predicted there will be blood and, sure enough, the last year saw a number of bankruptcies of high profile Ad Tech companies in the last year.



M&A Remains the Primary Source of Scaled Exits

MARTECH

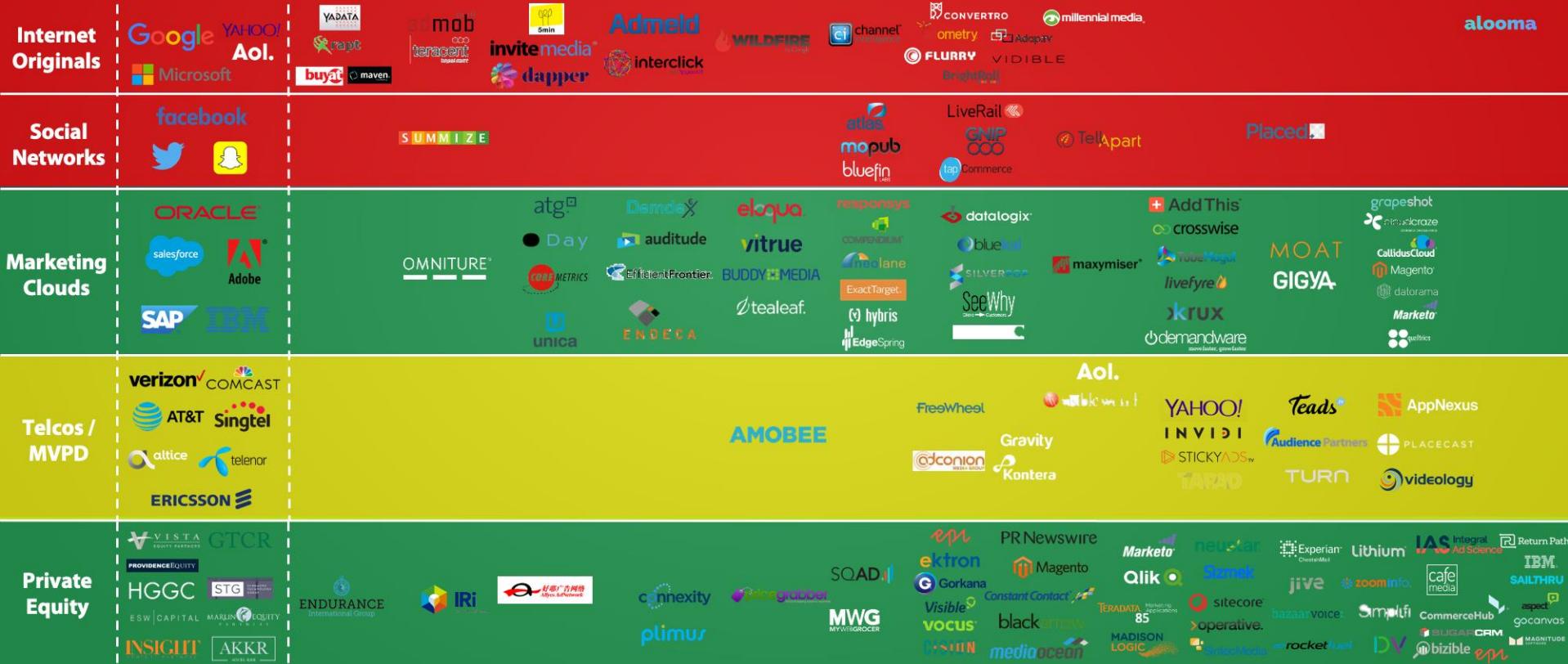


In MarTech we see a different story: The number of scaled exits has increased significantly over the last few years.



Who's Actually Buying Ad Tech & MarTech?

2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019



Why? Again, let's review that buyer universe. MarTech continues to enjoy robust strategic interest. Among the Marketing Clouds we see a handful of well capitalized, high multiple players actively competing to enhance their product offerings, often through M&A. And increasingly, Private Equity has emerged as the number 1 buyer in the category.



The New PE Playbook: Strategic vs. Financial

Financial
Rationale

Strategic
Rationale

	 FP FRANCISCO PARTNERS	 SIRIS Capital Group, LLC	 THL Thomas H. Lee Partners	 PROVIDENCE EQUITY	 IEQT	 VISTA EQUITY PARTNERS	 VISTA EQUITY PARTNERS	 GTCR
EV / LTM Revenue	1.8x	2.5x	3.8x		~4.0x - ~6.0x		7.5x	9.5x
EV / LTM EBITDA	14.6x	12.7x	12.4x	NA	NA	NA	NM	23.2x
Deal Value	\$3,292M	\$1,864M	\$6,880M	\$300M	\$1,100M	\$850M	\$1,800M	\$1,050M

Source: Pitchbook; Public Company Filings; Company Announcements



And Private Equity has not just been bargain hunting. Increasingly, we've seen private equity buyers stretch beyond lower multiple, cash flow-driven deals and look strategically at opportunities, often competing with and out-bidding strategic buyers.



Key Valuation Drivers

	Ad Tech	MarTech
1. Growth	—	✓
2. Operating Leverage	✗	✓
3. Predictability	✗	✓



Focusing on the three primary drivers of value (Growth, Operating Leverage and Predictability), clearly Ad Tech is struggling while MarTech has them in spades.



Key Valuation Drivers

	Ad Tech	MarTech
1. Growth	—	✓
2. Operating Leverage	✗	✓
3. Predictability	✗	✓
4. STRATEGIC VALUE	X-FACTOR	



That said, as we speak with strategic buyers, that strategic value component remains the “X-Factor” so we do expect to see a number of strategic exits for those differentiated companies in the space.





LUMA CORPORATE PARTNERS



The mission of the LUMA Corporate Partners program is to provide education, insights and market development to all constituents of the digital ecosystem. LUMA's Corporate Partners are comprised of leading media, marketing and technology companies for whom LUMA's leadership team provides strategic advice on the latest industry trends and a fresh perspective to aid in making critical growth decisions. LUMA's proprietary insights, research, content and events initiatives afford personalized guidance and education at leadership off-sites, teach-ins and customer events. If LUMA can help your organization sort through this complicated and dynamic sector, contact Gayle Meyers, CMO at Gayle@lumapartners.com.