

State of OTT

An in-depth look at today's over-the-top content consumption and device usage

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Agenda

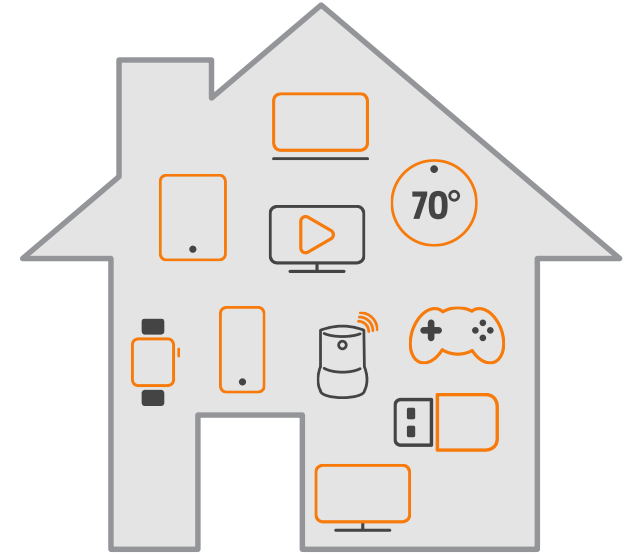
- OTT Market Overview
- Living Room Devices
- Household Viewing Segments
- OTT Content Providers
- Key Takeaways and Q & A

About this analysis

- **comScore's definition, aligned with the IAB definition, for over-the-top (OTT) is:**
 - Any video streamed on “a device that can connect to a TV, or functionality within the TV itself, to facilitate the delivery of Internet-based video content, such as Roku, Apple TV, Smart TVs, game consoles, etc.”
- **This presentation leverages unique comScore data sources :**
 - **comScore OTT Intelligence™** measures over-the-top streaming content consumption across OTT devices.
 - **comScore Connected Home™** delivers insight into the usage of all internet- or router-connected devices in the home – including IoT.
 - The foundation of these two data sources is the **comScore Total Home Panel™**, a breakthrough, single-source measurement solution that measures consumer behavior across home network-connected devices.

About this analysis

- **Total Home Panel** methodology and information:
 - Single-Source Behavioral
 - Measures ~8,000 Homes and ~100,000 Devices Monthly
 - Geographically Distributed in the U.S.
 - Weighted to U.S. homes with Wi-Fi (94M homes)
- **OTT Intelligence™** measures consumption across 70 OTT services which account for the overwhelming majority of OTT usage
- **When publishing or using information from this presentation**, please be sure to cite comScore as sourced at the bottom of each slide



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Key Takeaways

1

OTT streaming is a mainstream behavior that has grown significantly

2

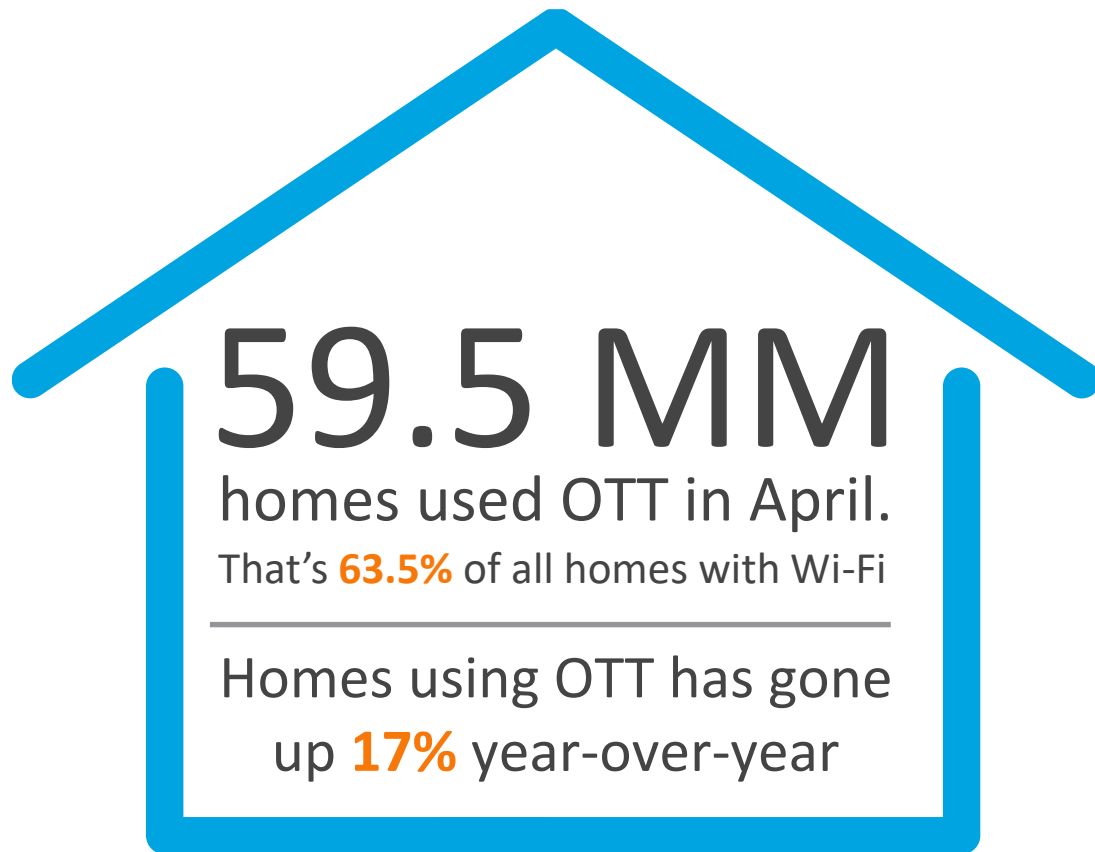
There is still opportunity for OTT streaming growth, especially among certain segments

3

Consumption of OTT services is concentrated, but with a long tail

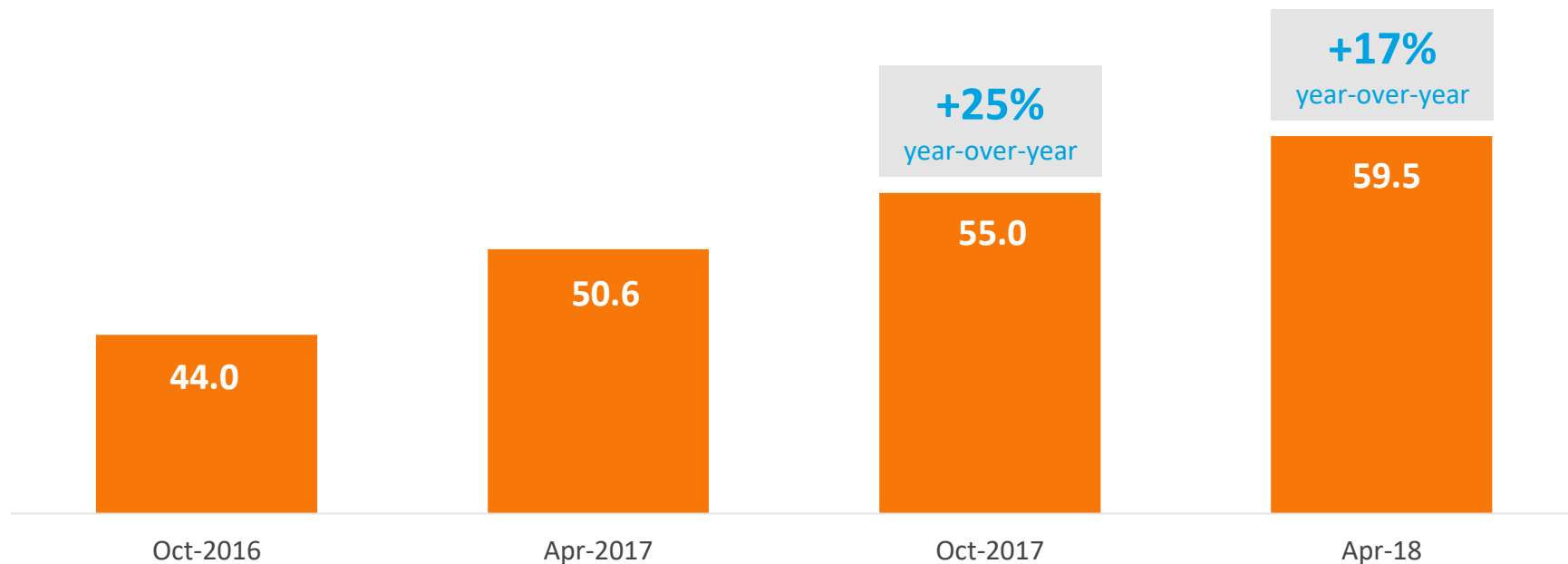
OTT Market Overview

OTT viewing has become a mainstream media behavior in the U.S.

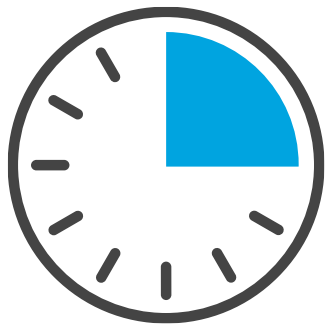


The OTT market is steadily growing, with 8.8M more OTT viewing households coming online over the past year – a 17% increase

Total OTT Households (Millions)



Audiences are spending a significant amount of time with OTT



These 59.5MM homes viewed, on average,

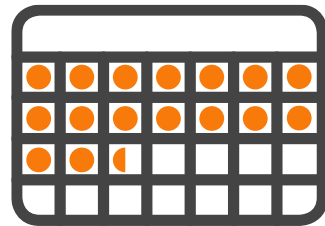
54 Hours

of OTT content in April 2018...

(+4.4 hours per household year-over-year)

...this was spread across

16.4 average viewing days

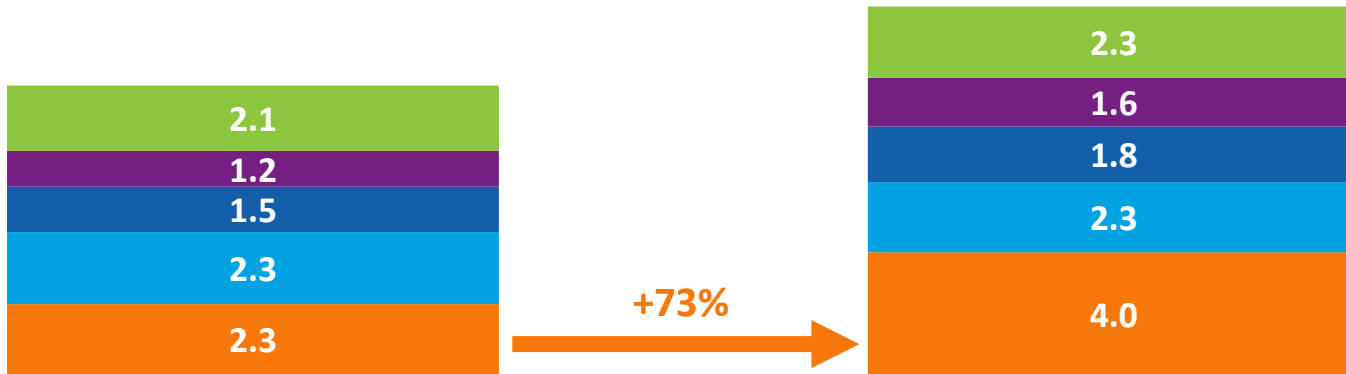


Total time spent streaming OTT is up **28%** year-over-year

Computers used to equal streaming devices in data use – now, data use by streaming devices is up 73 percent

Total Gigabytes of Data Received in All U.S. Wi-Fi Homes (Billions)

Streaming Box/Stick Computer Gaming Console Smart TV All Other (Including Mobile)



April 2017

April 2018

102 gigabytes
per household

+26%

129 gigabytes
per household

Living Room Devices

Adoption of OTT devices is still on the rise and viewers are doing more with the devices they have

Year-over-Year Change April 2017 to April 2018

+4%

Homes with an OTT Device

+6%

Average Number of OTT
Devices per Home (2.54 to 2.7)

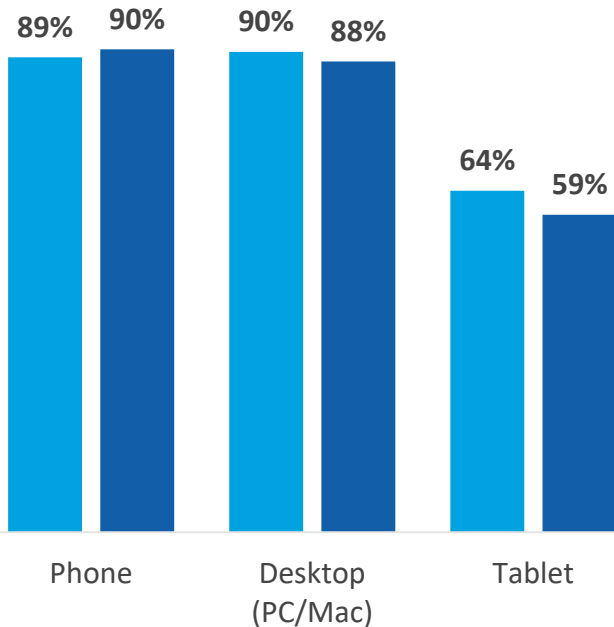
+17%

Homes streaming OTT content

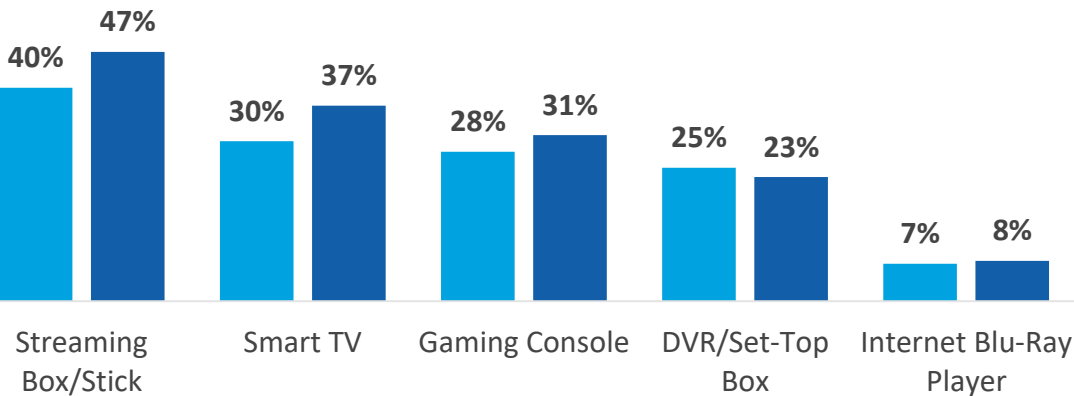
While traditional digital devices are still the most prevalent, most OTT devices are showing significant growth

Household Reach Among U.S. Wi-Fi Households

■ April 2017 ■ April 2018



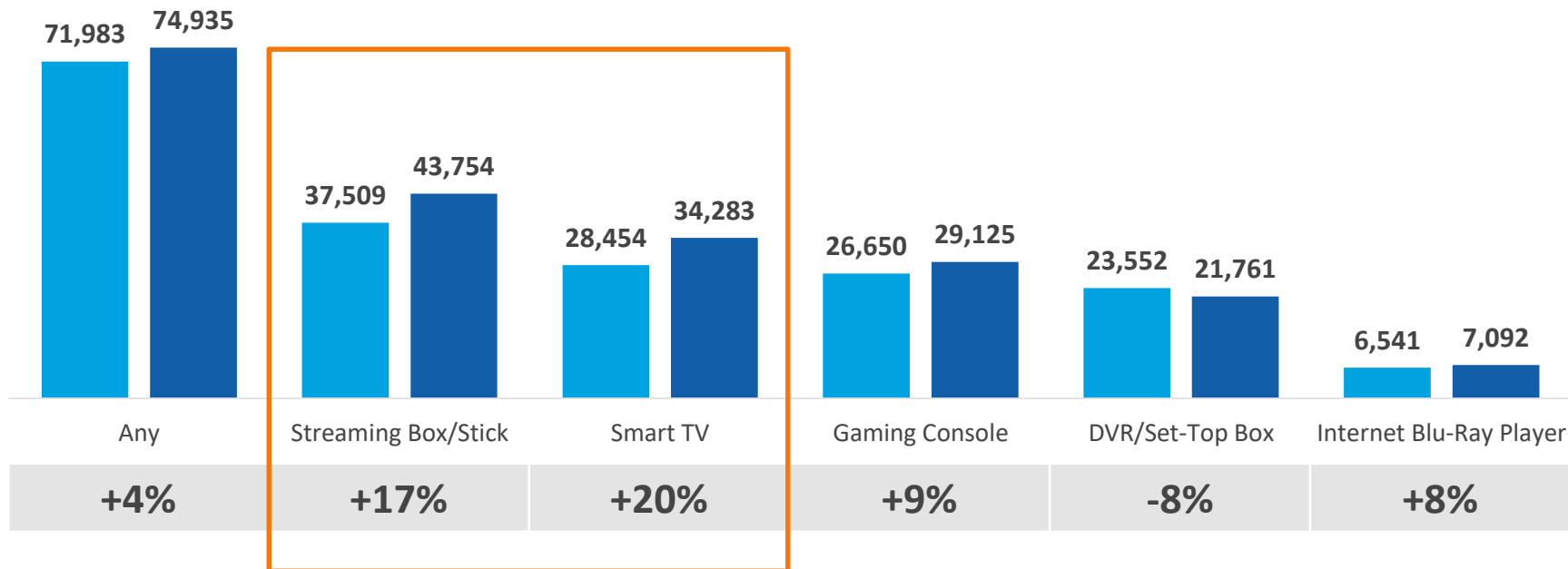
80% of homes have at least one of these OTT devices



Penetration of OTT devices in Wi-Fi households is up with streaming boxes/sticks and smart TVs leading the way

Total Wi-Fi Households (000) with OTT Devices

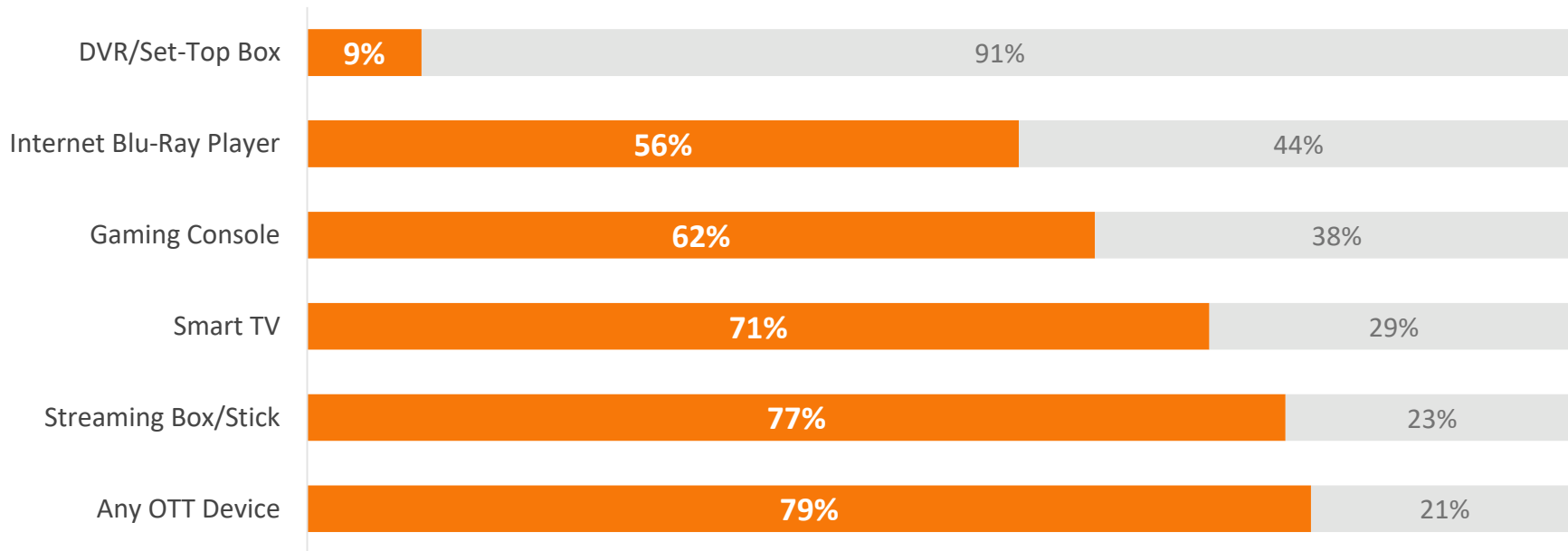
■ April 2017 ■ April 2018



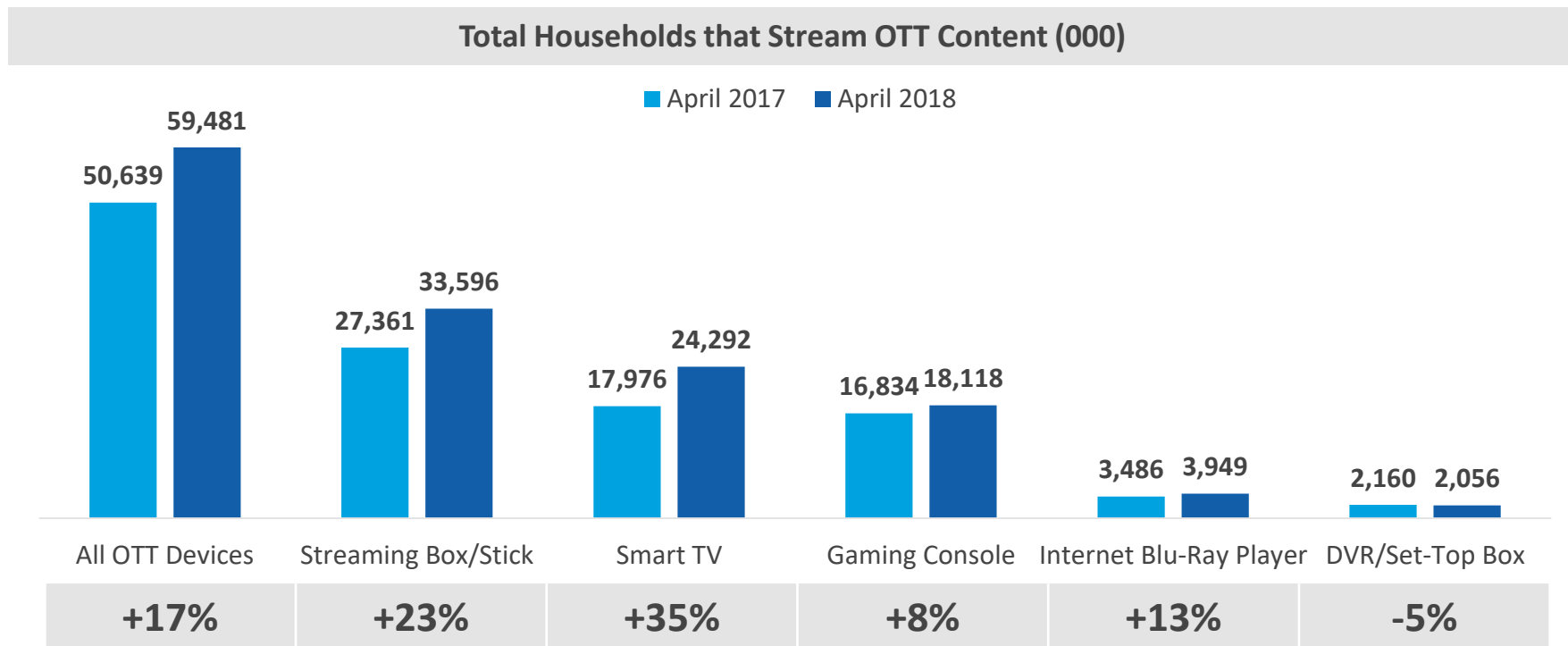
While the majority of homes with OTT devices stream OTT content, there is opportunity in the 21% who do not

Percent of Homes that Stream OTT Content on Each Device Type

■ % Streaming ■ % Not Streaming

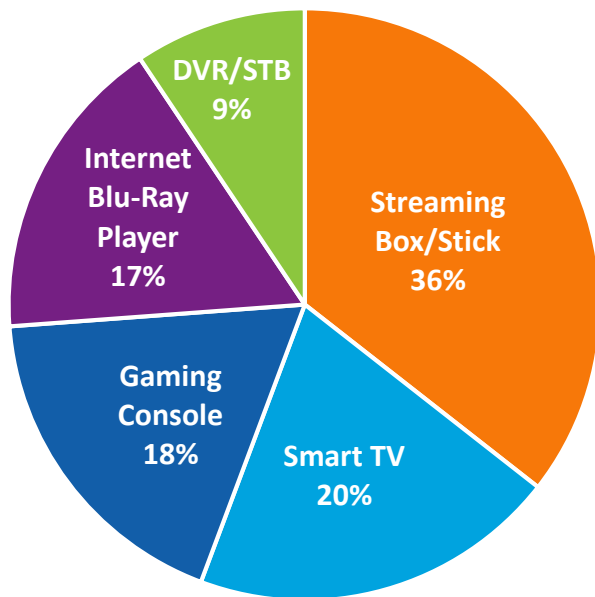


The amount of homes that stream content is up across the board on nearly every type of OTT device



In addition to being the most popular OTT device, streaming boxes/sticks also dominate time spent streaming by OTT households

Percent of Total OTT Viewing Hours by Device Type (April 2018)

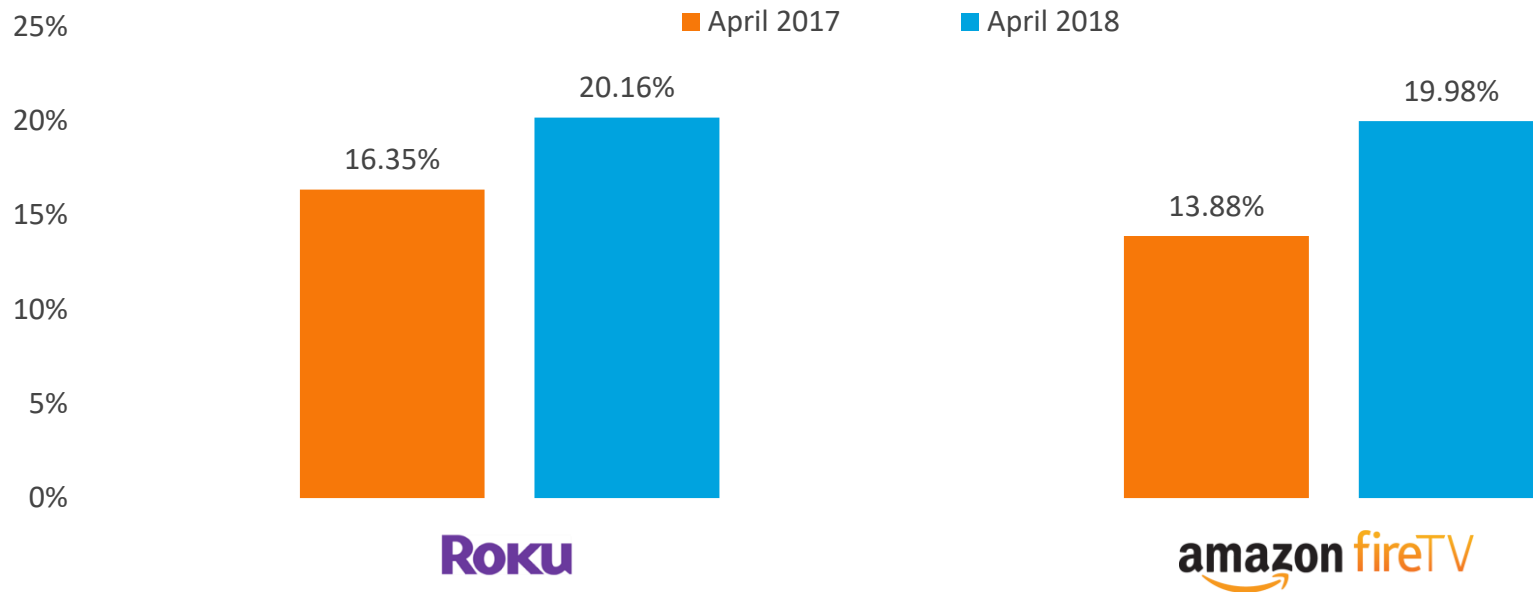


OTT Streaming Households by Platform (April 2018)

Platform	Viewing Hours per Household	Households
Streaming Box/Stick	53	33.6 MM
Smart TV	30	24.3 MM
Gaming Console	27	18.1 MM
Internet Blu-Ray Player	25	3.9 MM
DVR/Set-Top Box	14	2.1 MM

Streaming box and stick devices are still driving the OTT category forward, with Roku and Amazon drawing closer to even this year

Select TV Streaming Boxes/Sticks: Penetration of U.S. Wi-Fi Households



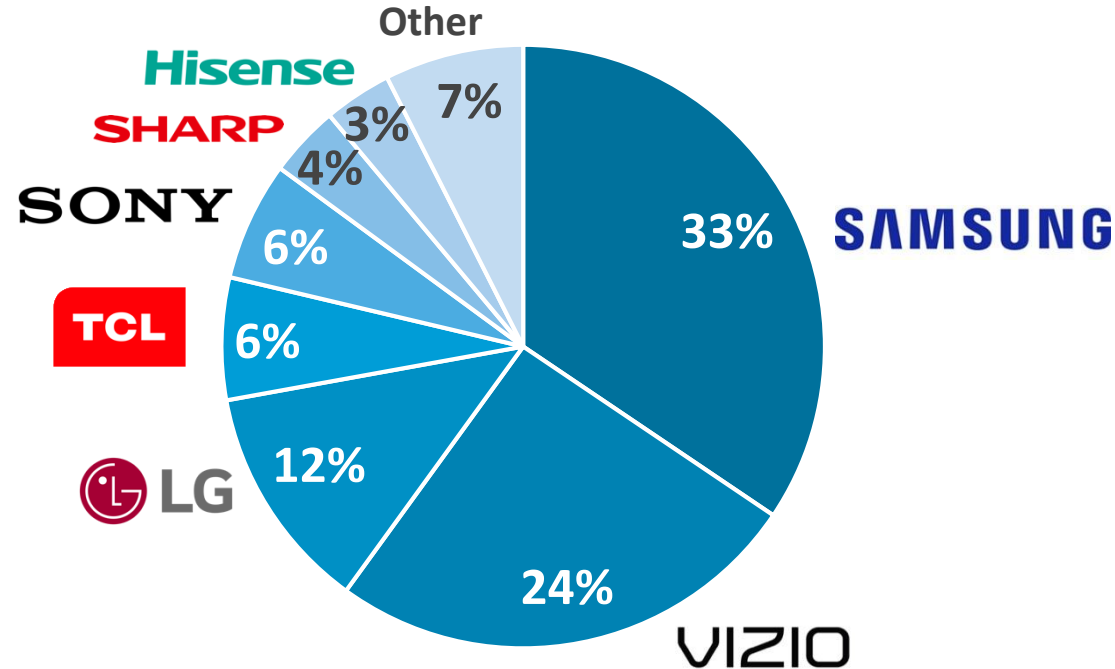
Roku

amazon fireTV

**Note: Roku OS is also
used on 13% of smart TVs**

The smart TV market is led by Samsung and Vizio, each accounting for a large piece of the pie

Share (%) of Smart TVs by OEM in U.S. Wi-Fi Households



Household Viewing Segments

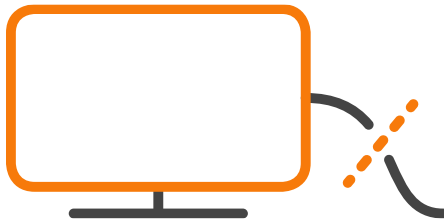
Definitions: Cordless, cord-cutters and cord-nevers



CORDLESS

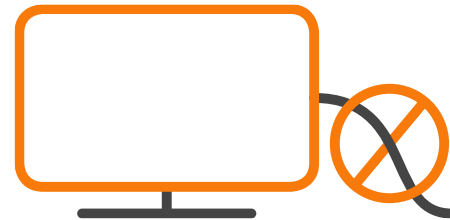
Has no traditional
pay-TV service
(cable/satellite)

Cordless = cord-cutters + cord-nevers



CORD-CUTTERS

Has had a traditional
pay-TV (cable/satellite)
subscription in the past
five years

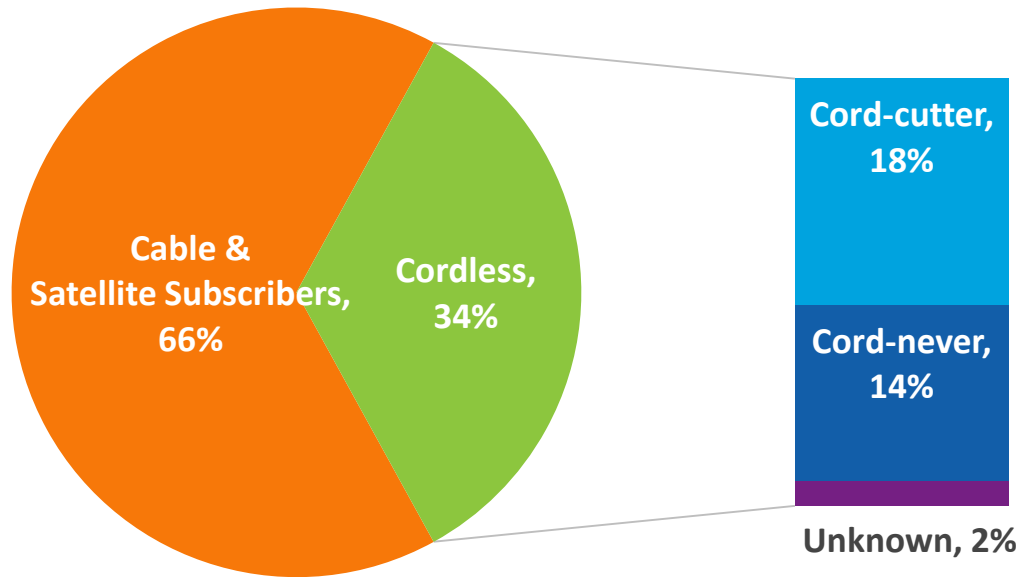


CORD-NEVERS

Has not had a traditional
pay-TV (cable/satellite)
subscription in the past
five years

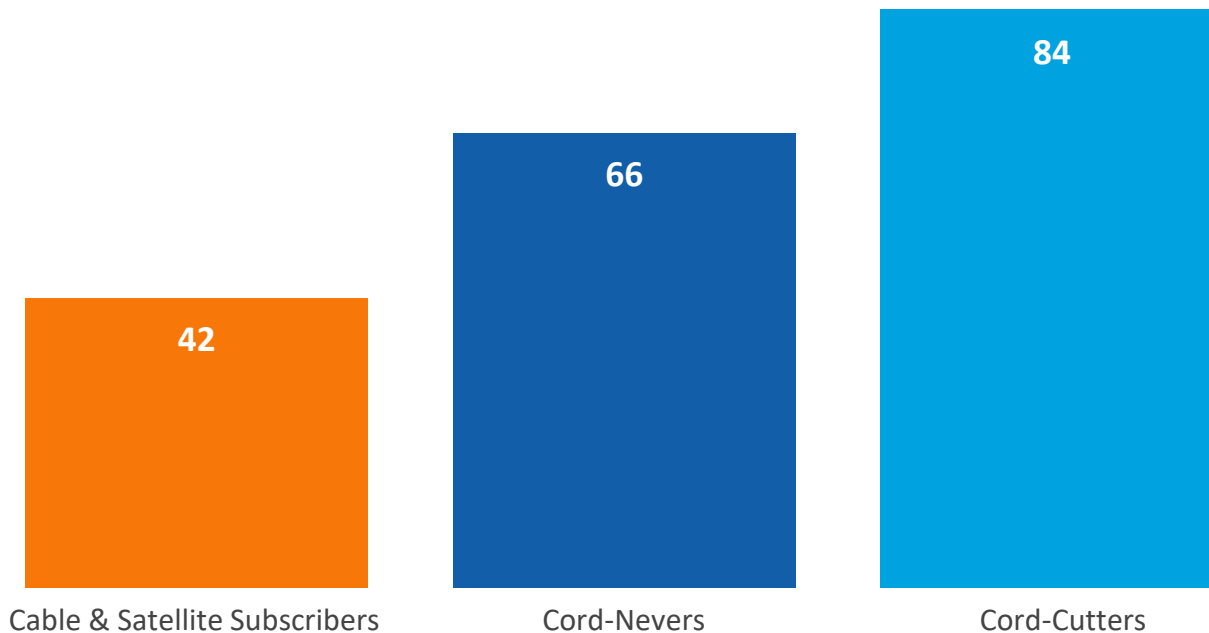
More than one-third of the OTT streaming audience is cordless and doesn't subscribe to pay-TV; those cordless households can be further broken down to “cord-cutters” and “cord-nevers”

OTT Streaming Households by TV Service Type



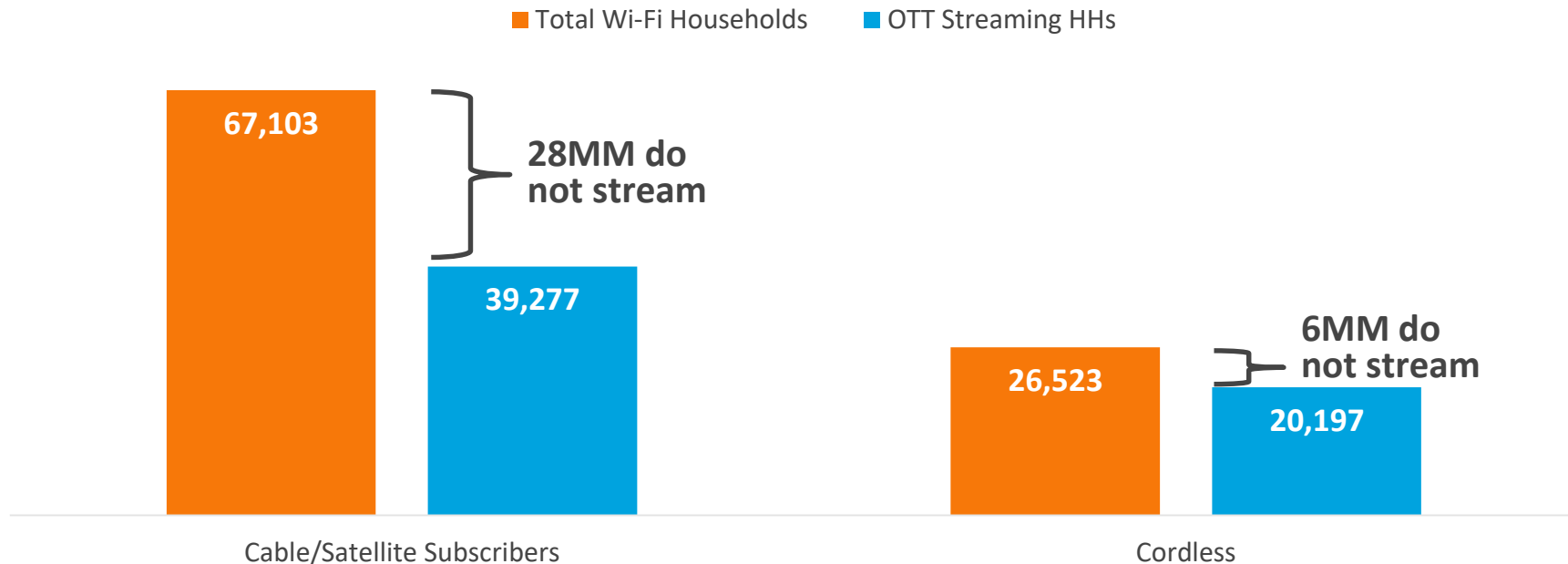
Cord-cutters are significantly more engaged with OTT streaming than cord-nevers

Average OTT Viewing Hours per OTT Streaming Household by TV Service Type



Cable and satellite subscribers who do not yet stream OTT pose a major growth opportunity

Total Wi-Fi Households vs. OTT Streaming Households (000)



Heavy streamers stream 13 times as much as light streamers

Definitions:

HEAVY STREAMERS

The top **20%** of OTT households based on duration.

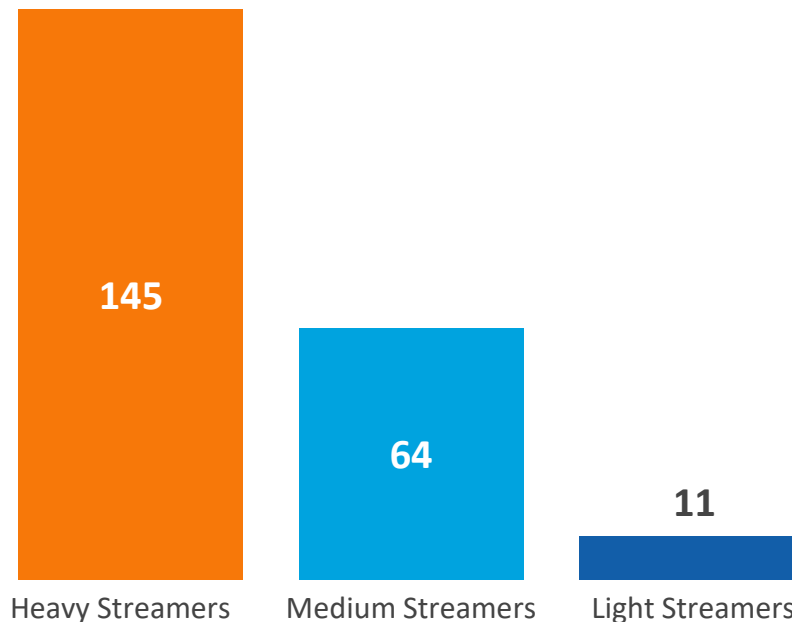
MEDIUM STREAMERS

The next **30%** of OTT households based on duration.

LIGHT STREAMERS

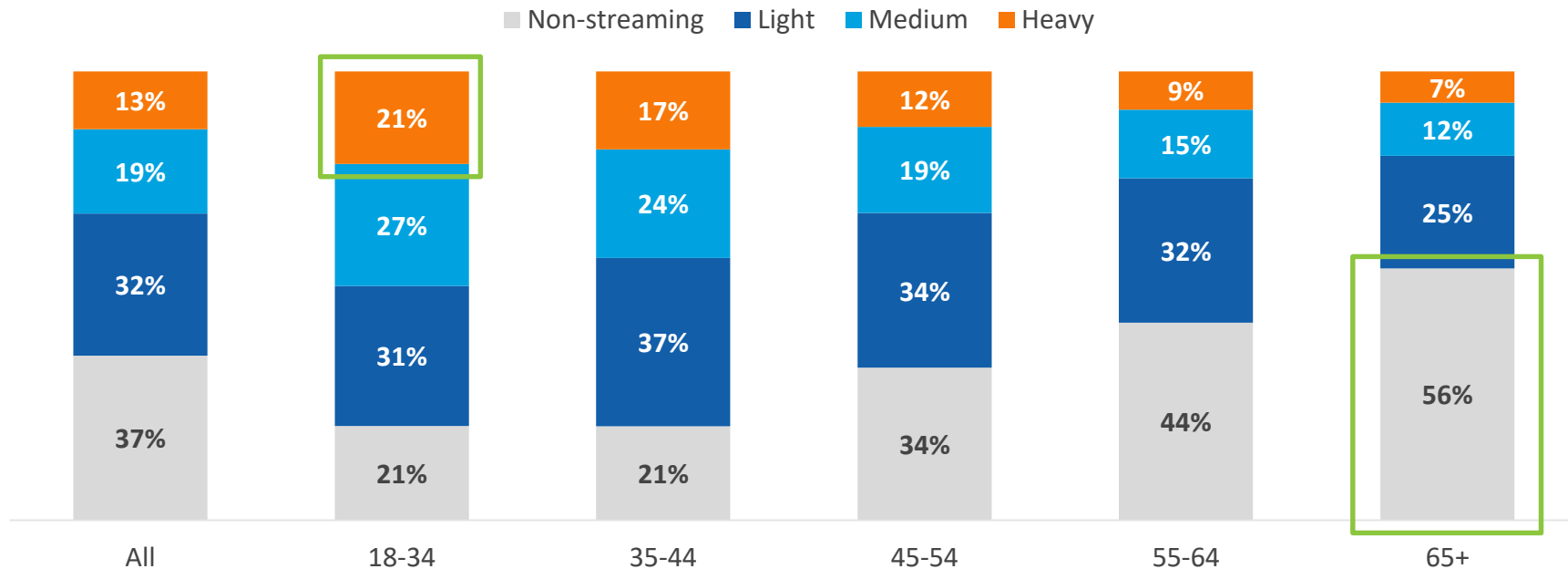
The bottom **50%** of OTT households based on duration.

Average OTT Viewing Hours per OTT Streaming Household



As expected, heavy streamers are more likely to be young, while seniors are more likely to not stream at all

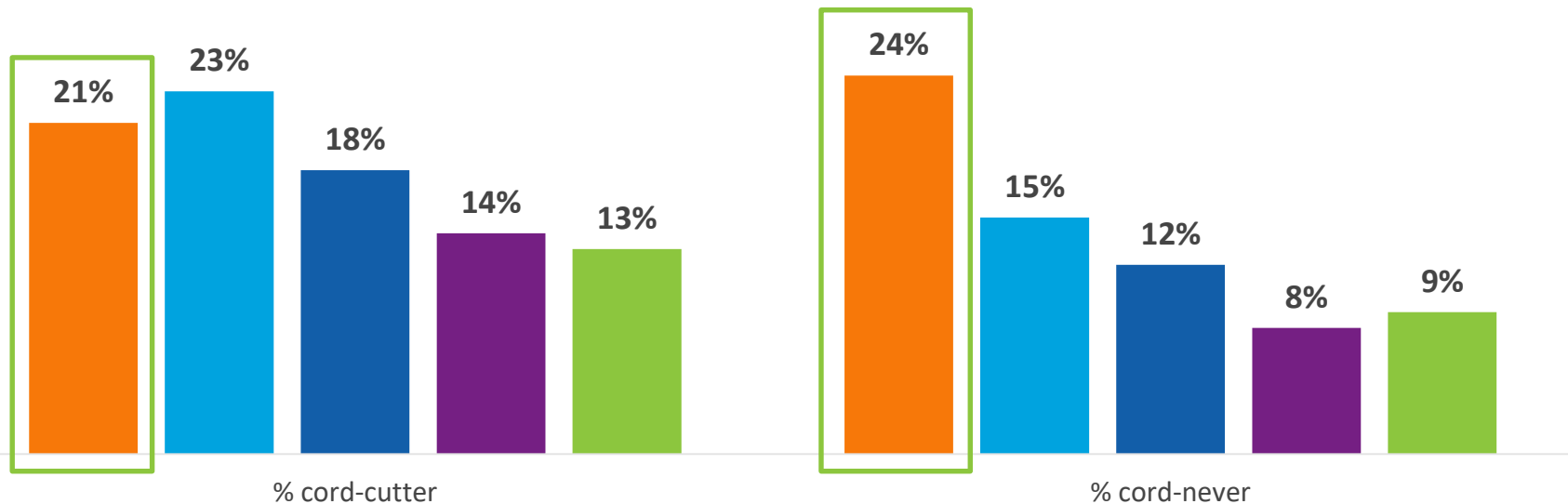
Distribution of Heavy/Light/Non-Streamer by Head of Household Age



Homes with younger heads of household are more likely to be cord-nevers than cord-cutters

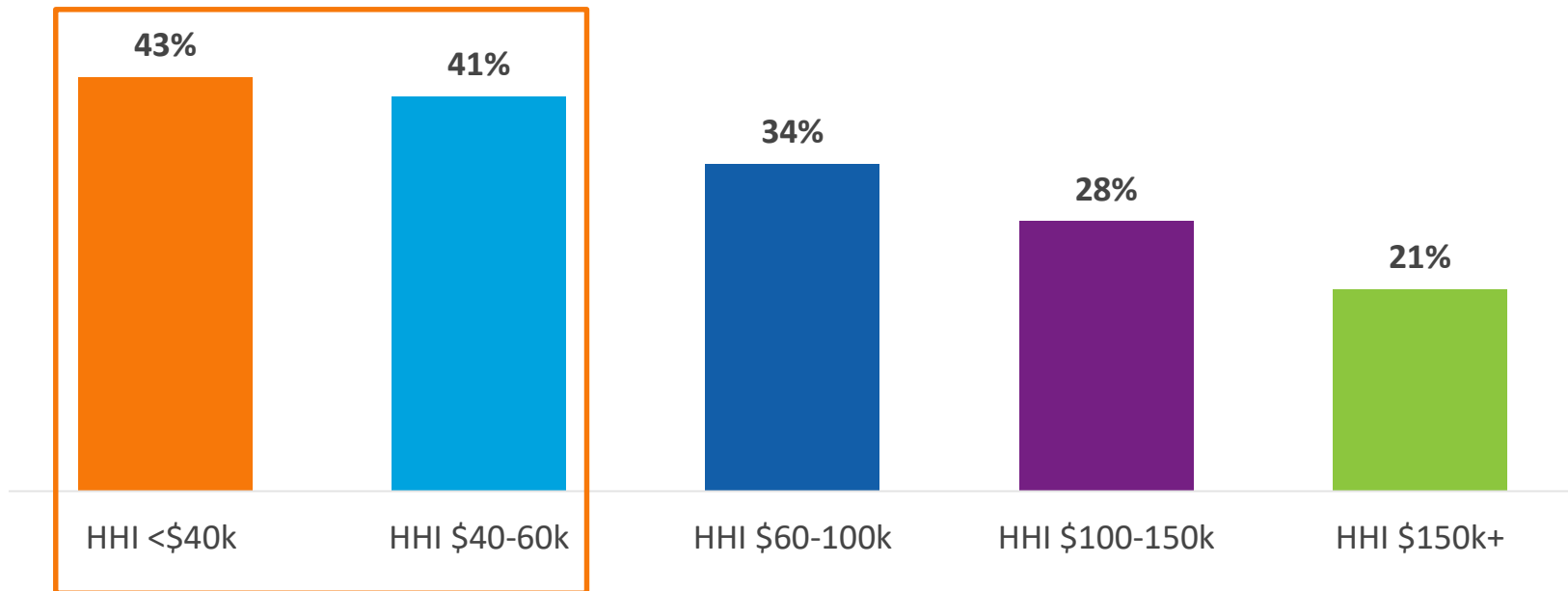
Viewing Segments by Head of Household Age

18-34 35-44 45-54 55-64 Age 65+



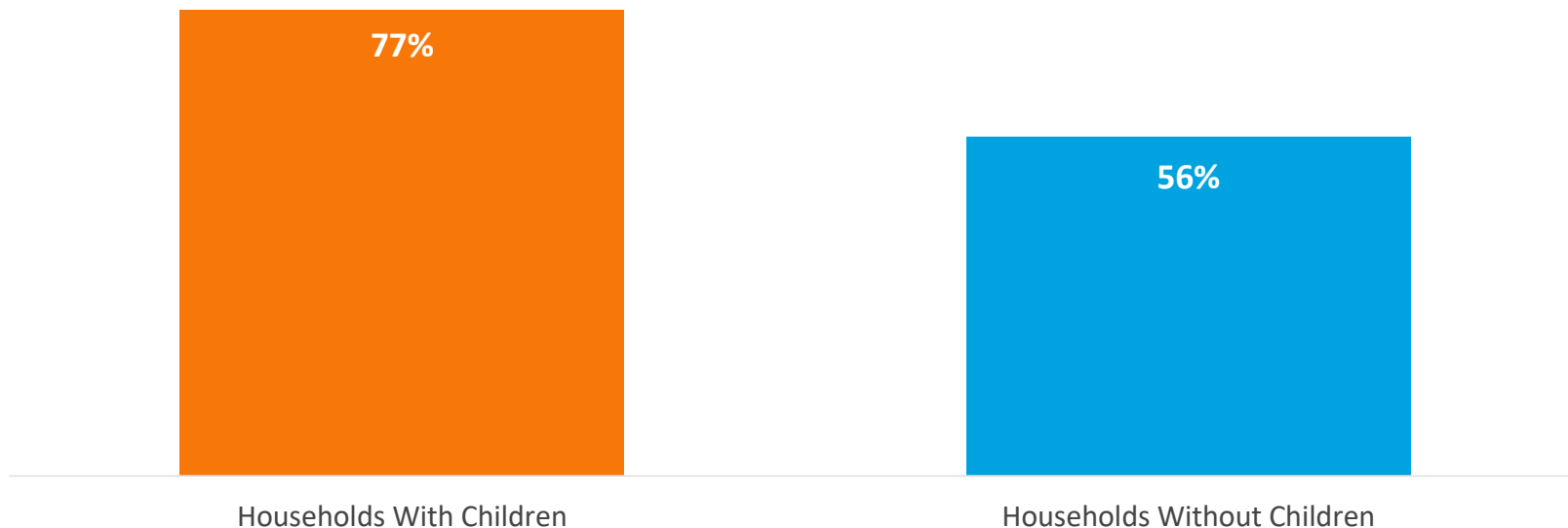
Lower-income households are twice as likely to be cordless than those with higher-income

Percent of Viewing Segment that is “Cordless”



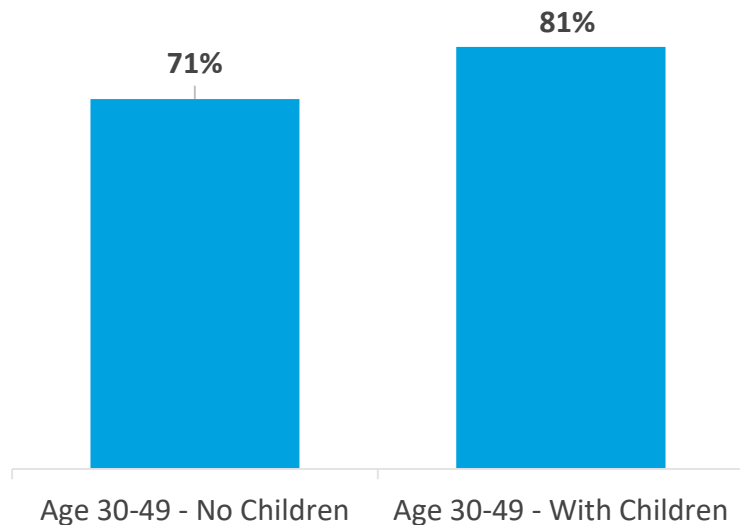
Homes with children are more likely to stream OTT content

Percent of Segment Streaming OTT

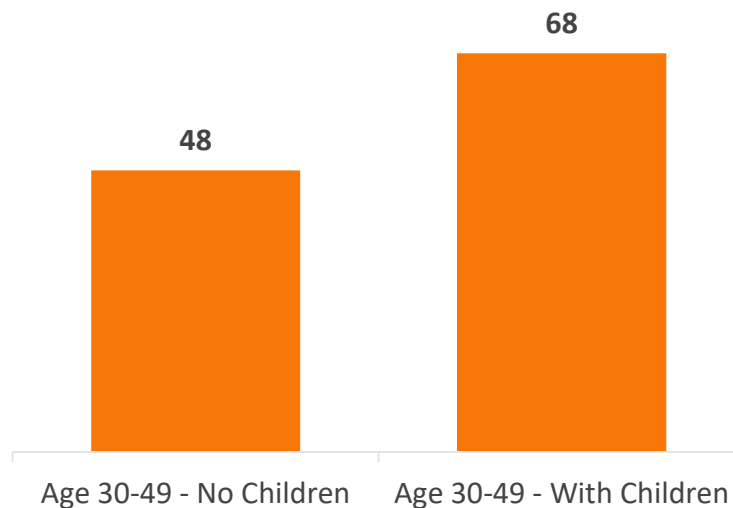


Presence of children in households with same head of household age increases streaming adoption and engagement

Percent of Segment Streaming OTT



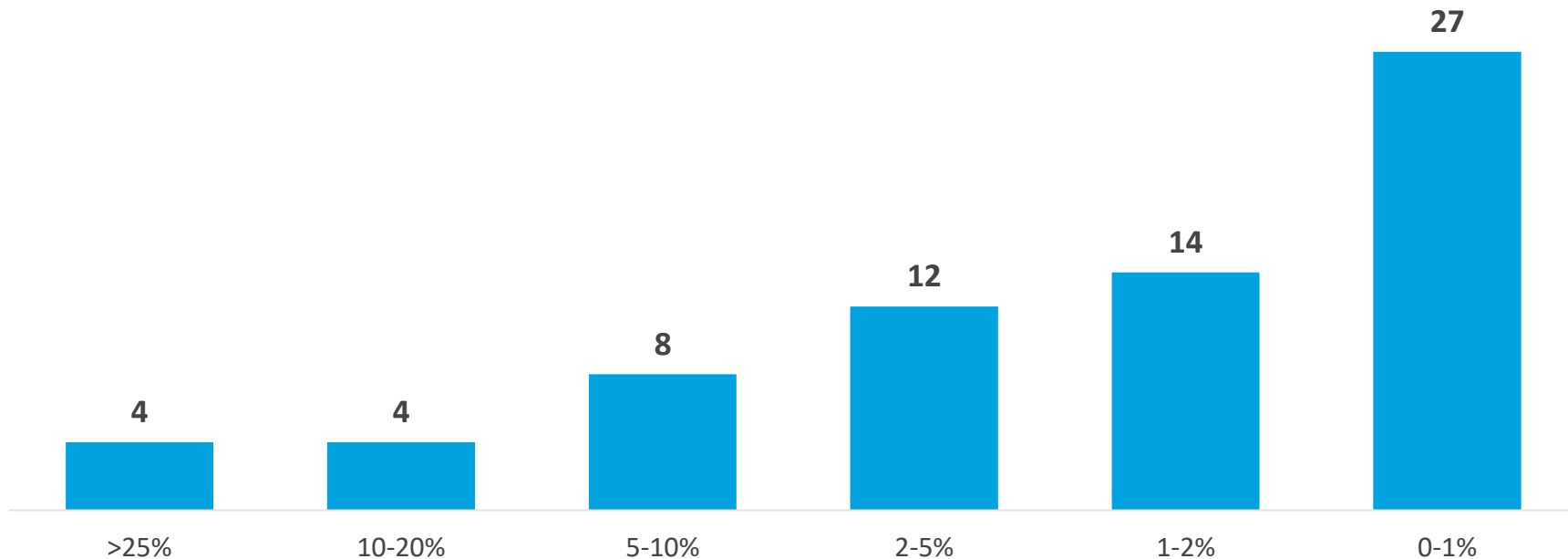
Hours per OTT Streaming Household



OTT Content Providers

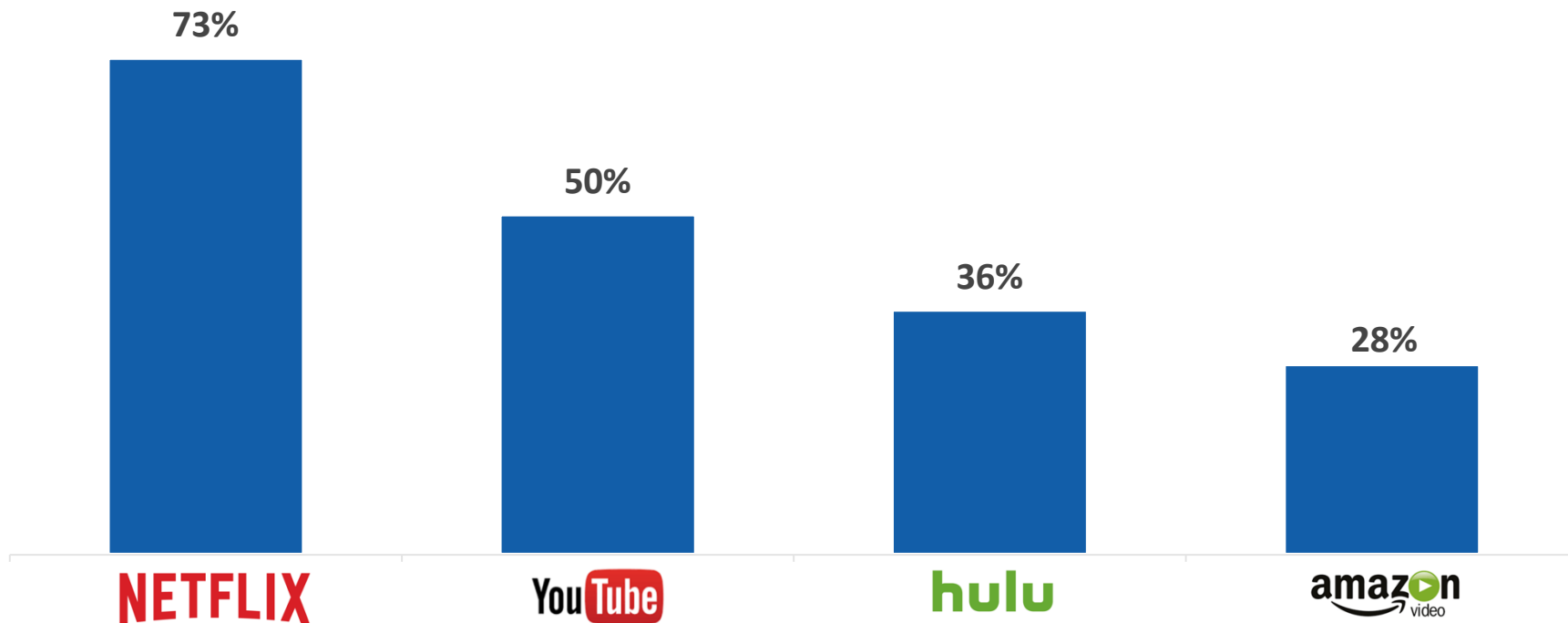
OTT streaming is a long-tail situation, with a few high-reach apps and many low-reach services

Number of Apps by Percent Reach of OTT Streaming Households



The four major OTT streaming services have significant penetration into all OTT households

Percent Reach of Total OTT Streaming Households

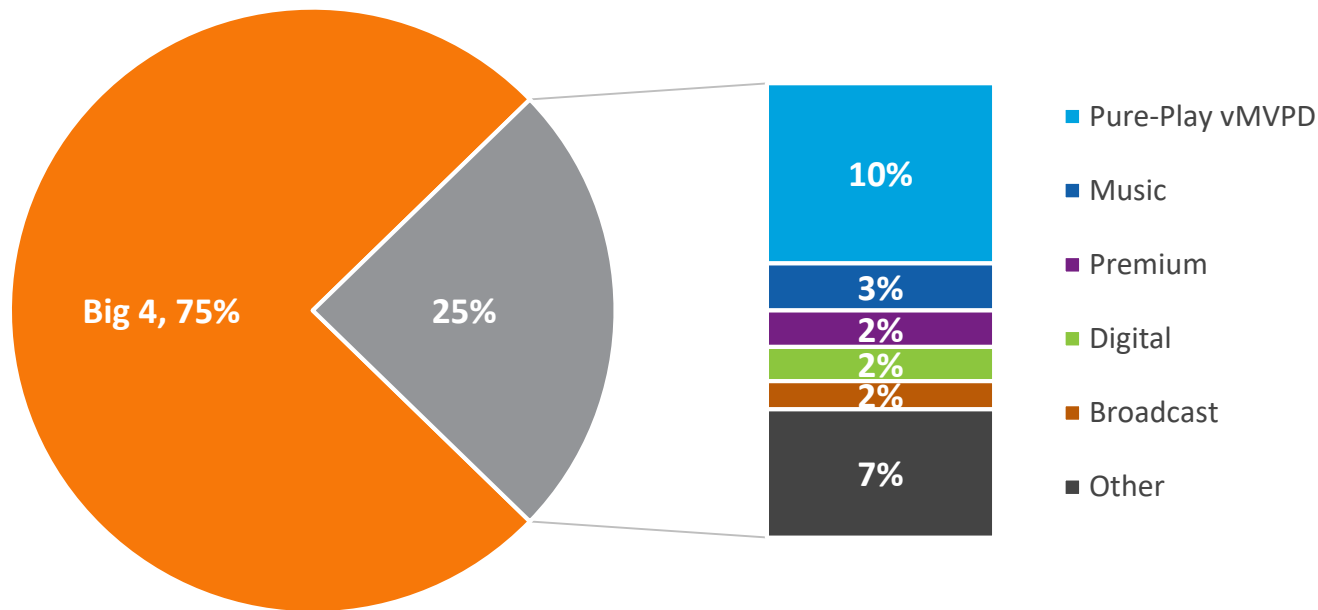


Hulu and YouTube have the highest percentage of cordless viewers and the highest time spent

	% CORDLESS	TOTAL OTT VIEWING HOURS	VIEWING DAYS
NETFLIX	37%	62	18.6
You Tube	41%	78	19.8
amazon video	37%	70	19.8
hulu	49%	86	21.6

Time spent streaming OTT is mainly spent on the big four, with pure-play virtual MVPDs next

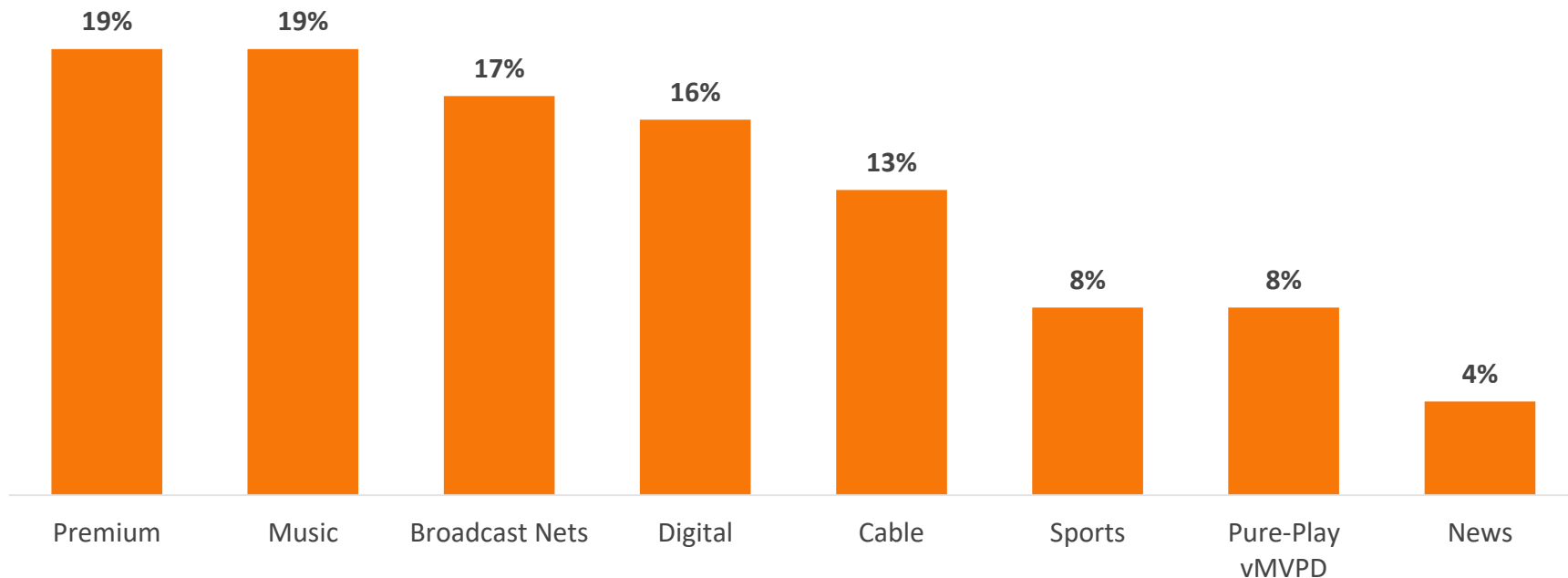
Percent of OTT Streaming Time Spent



MVPD = Multichannel video (live TV) programming distributor (cable/satellite companies). A virtual MVPD is one that distributes content through the Internet. Examples are Sling, DirecTV Now, and PlayStation Vue.

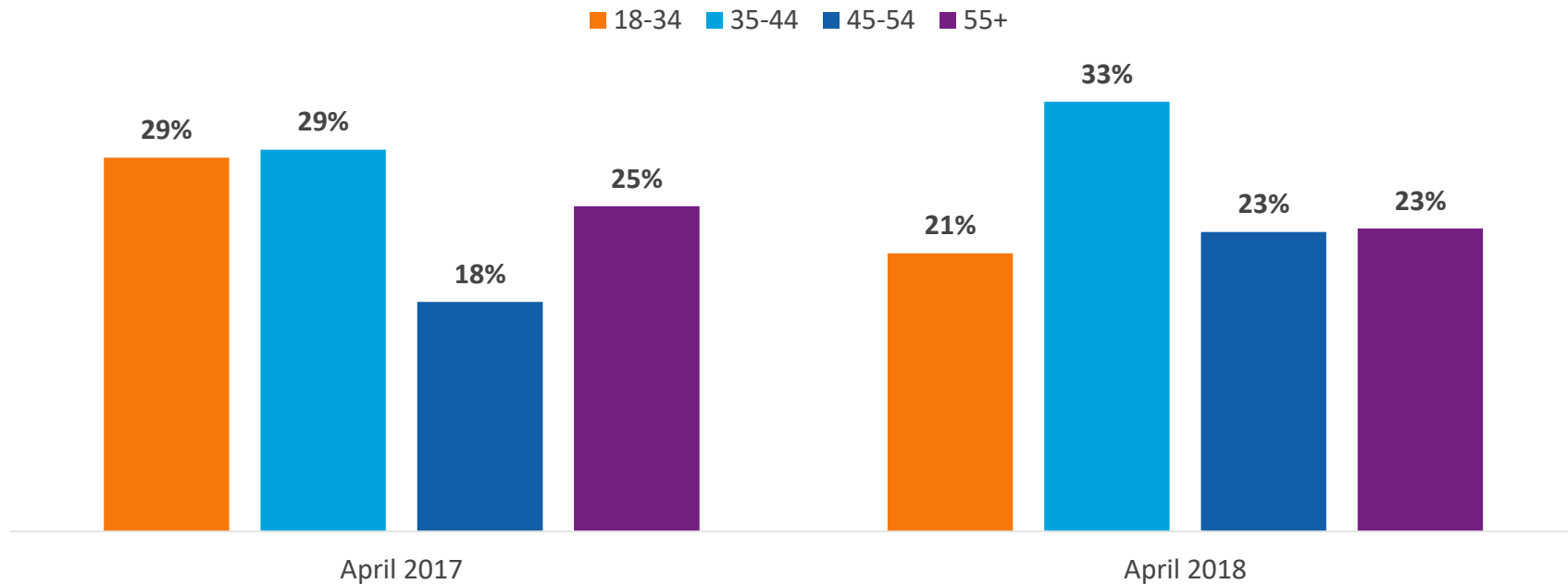
Outside of the Big Four services, the most popular categories are Premium Channels, Music Streaming, and Broadcast Networks

Percent Reach (of OTT Streaming HHs) of Various Genres – Three-Month Average (Feb. – April 2018)



More homes with older heads of household are using virtual MVPD services, indicating a potential expansion in generational adoption

Percent Composition by Head of Household Age for Pure-Play Virtual MVPD Users



The use of pure-play virtual MVPD services on OTT is on the rise

Pure-Play Virtual MVPDs - Year-over-Year Growth



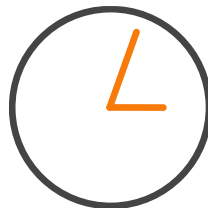
+58%

Number of Households



+53%

Hours Spent Viewing



49%

Of time spent by OTT HHs
with a vMVPD service is
with the vMVPD



Almost
All

vMVPD viewing is on
streaming boxes/sticks

Key Takeaways

Key Takeaways

1

OTT streaming is a mainstream behavior that has grown significantly

- **59.5 million homes**, up 17% year-over-year - nearly 2/3 of U.S. homes with a Wi-Fi connection
- Households average **54 hours per month of streaming** on 16.4 days
- A **year-over-year increase of 26% in home data usage** is driven by OTT streaming
- Households headed by persons under 35 are **more likely to be cord-nevers than cord-cutters**

2

There is still opportunity for OTT streaming growth, especially among certain segments

- **20% of U.S. homes** with Wi-Fi do not have an OTT device
- Of households that do have an OTT device, **21% are not actively streaming**
- **The segments with the most opportunity for growth** are cable and satellite subscribers, households with a head of household age 55+, and younger households without children

3

Consumption of OTT services is concentrated, but with a long tail

- Netflix, YouTube, Amazon, and Hulu are the “big 4” services and comprise **75% of time spent streaming OTT**
- **Pure-play virtual MVPDs account for 10% of time on OTT streaming** and have grown significantly in the past year
- Broadcast, cable, and premium network apps each reach **more than 10% of OTT streamers**

comScore Total Home Panel™

Capture device usage and content consumption across the connected home.



OTT Intelligence™

Measures over-the-top streaming content consumption across OTT devices.



Connected Home™

Delivers insight into the usage of all internet- or router-connected devices in the home – including IoT.



Custom Reports & Raw Data Feed

Provides unparalleled access to the complete Total Home Panel dataset for custom analyses.

To learn more, visit: [comScore.com/TotalHome](https://comscore.com/TotalHome)

Thank You!

For more information, please email
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Appendix

Definitions of Key Terms

- **Cordless:** A home that has no traditional pay-TV service (cable/satellite)
- **Cord-cutter:** A home that has had a traditional pay-TV (cable/satellite) subscription in the past five years.
- **Cord-never:** A home that has not had a traditional pay-TV (cable/satellite) subscription in the past five years.
- **Computer:** All PC and Mac computers, including desktops and laptops. Excludes tablets and smartphones.
- **Heavy streamers:** The top 20 percent of OTT households based on duration.
- **Light streamers:** The bottom 50 percent of OTT households based on duration.
- **Medium streamers:** The next 30 percent of OTT households (after heavy streamers) based on duration.
- **MVPD:** Multichannel video (live TV) programming distributor (cable/satellite companies).
- **Over-the-top (OTT):** Any video streamed on a device that can connect to a TV, or functionality within the TV itself, to facilitate the delivery of Internet-based video content, such as Roku, Apple TV, Smart TVs, game consoles, etc.
- **OTT streaming households:** Homes with OTT devices that stream content on those devices.
- **OTT services/apps:** Any app or service that provides content via OTT and bypasses traditional distribution (e.g. Netflix, Hulu, etc.).
- **Smart TV:** An internet-connected television on which users can stream OTT content.
- **Streaming box/stick:** Refers to devices that connect to a TV for the purpose of streaming video (e.g. Roku, Amazon Fire TV, Apple TV, and Chromecast).
- **Virtual MVPD:** An MVPD that distributes content through the Internet (e.g. Sling TV, DirecTV Now, and PlayStation Vue).
- **Wi-fi homes:** Refers to the 94 million U.S. homes that have wireless internet.

OTT Services Included – April 2018

1.	ABC	21.	Fox Now	39.	Netflix	59.	Tubi TV
2.	ABC News	22.	Fox Sports Go	40.	NFL Mobile	60.	Twitch
3.	ACORN.TV	23.	Fubo.tv	41.	NHL	61.	USA Network
4.	Amazon Video	24.	FXNow	42.	Pandora Radio	62.	VEVO
5.	AMC Mobile	25.	Hallmark Channel	43.	PBS	63.	VRV: Anime, game videos & more
6.	Apple TV iTunes		Everywhere	44.	PBS KIDS Video		VUDU Movies and TV
7.	Bravo Now	26.	HBO Go/Now	45.	Philo	64.	Watch TNT
8.	Cartoon Network Video	27.	HGTV	46.	Playstation Vue	65.	WatchESPN
9.	CBS All Access	28.	Hulu	47.	Pluto.TV	66.	WWE
10.	CBS News	29.	iFood.tv	48.	Showtime	67.	XBox Movies & TV
11.	CNN Go	30.	iHeartRadio	49.	Showtime Anytime	68.	Xumo
12.	Crackle	31.	Mixer	50.	Sling	69.	YouTube
13.	Crunchyroll	32.	MLB.tv	51.	Spectrum TV	70.	
14.	CWTV	33.	MLG.tv	52.	Spotify		
15.	Dailymotion	34.	NBA App	53.	Starz		
16.	DirecTV Now	35.	NBC	54.	Syfy Now		
17.	Disney Now	36.	NBC News	55.	TBS		
18.	DIY Network	37.	NBC Sports	56.	The Roku Channel		
19.	Food Network	38.	NCAA March Madness Live	57.	The Vidmark Channel		
20.	FOX News			58.	Travel Channel		