



# Webinar Goals

- **Understand** how connected products and services are evolving to offer consumers more value in 2020.
- Get up to speed about innovations in technologies and services foundational to connected living.
- Hear about device manufacturer and service provider strategies for generating new revenue through valueadded services.
- **Learn** about initiatives from market leaders to grow their base of connected product users.
- Gain insights into new channels being explored to reach new connected living market segments.



# **Speakers**



Jennifer Kent
Senior Director
Parks Associates



Patrice Samuels
Senior Analyst
Parks Associates



**Brad Russell**Research Director **Parks Associates** 



Kristen Hanich Senior Analyst Parks Associates



#### **Webcast Recording Playback**

Parks Associates invites you to view and listen to the webcast recording.

#### Click link to view recording:

https://register.gotowebinar.com/recording/551208672048750091



# Agenda

Introduction
Enabling the Connected Lifestyle
Value Beyond Connectivity

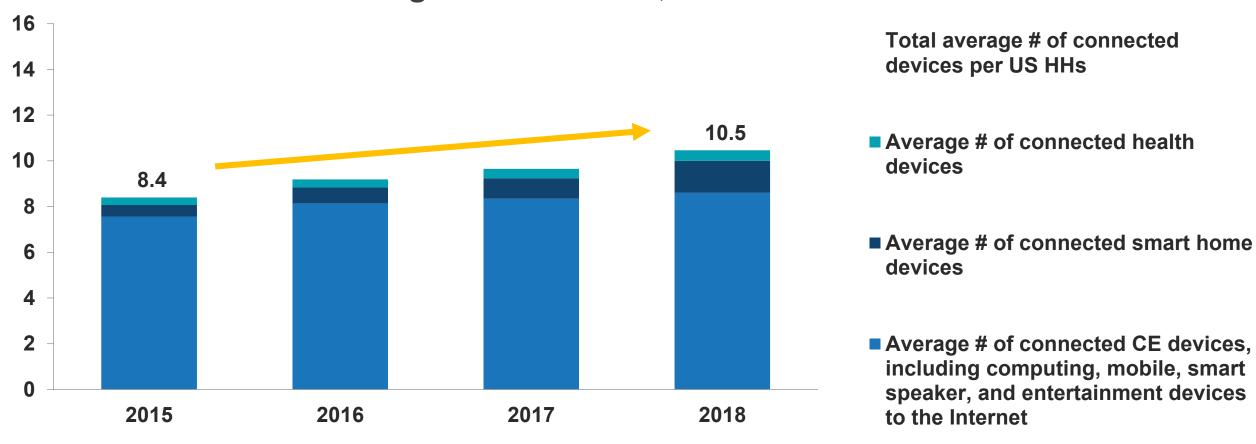
- Connected Home
- CE Devices and Entertainment

**Analyst Q&A** 



## **Connected Devices in the Home**

# Total Average Number of Connected Devices Per US BB HH (2015 - 2018) Among All US BB HHs, Outliers Excluded





# Layers of Value in Connected Products

#### **Information**

- View status of device remotely
- Billing insights
- Product and behavioral insights

#### Convenience

- Remote control
- Integrated control
- Automation/routines
- Access to content across connected devices

## **Cost Savings**

- Energy savings
- Insurance premium discounts
- Cord cutting

## Lifestyle Enhancements

- Personal and family safety
- Personal and property security
- Health and wellness
- Personalized entertainment
- Cloud gaming



# **Looking for Growth in Connected Living**

# **Connected Living Enablers**

- Broadband and Mobile
- AI, Personal Assistants, and UI Innovation
- Cloud and Edge Computing
- Technical Support Services
- Privacy and Data Security Measures

# **Looking for Growth**

- Value-Added Services
- Expanding the Base
- Exploring New Channels



# Enabling the Connected Lifestyle

Presented by Patrice Samuels Senior Analyst





## **Broadband and Mobile Trends**

#### **State of Market**

- 88% of all US households have broadband
- 96% use a mobile service
- 75% own a smartphone
- Broadband is 4th utility in the home
- 29% growth in global household broadband access in past 5 years



#### **Outlook**

- Fiber network development
- Universal standards for access and speed
- Gigabit speed roll-out
- 5G networks emerge



## Al, Personal Assistants, and Ul Innovation

#### **Artificial Intelligence**

- Improves product value
- Drives product adoption

#### **Natural Language Processing**

Drives smart speaker adoption

#### **Smart Speaker Adoption**

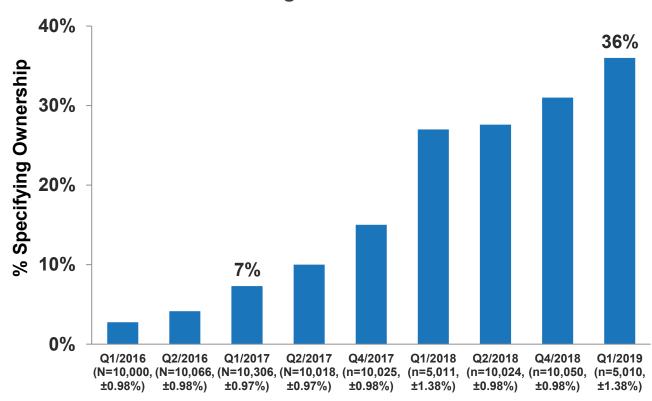
7% in 2017 to 36% in 2019

#### **Smart Speaker Use Cases**

- Listening to music
- Requesting information

# Smart Speakers with Voice Assistant Ownership (2016-2019)

**Among All US BB HHs** 





# AI, Personal Assistants, and UI Innovation

#### **Smart Home Al Applications**

- Home Security
  - Video Analytics
    - Distinguish among causes of motion
    - Track objects
  - Audio Analytics
    - Identify glass breaking, dogs barking, doors and windows opening, banging, alarms, screaming
  - Overall benefits
    - Facilitates more intelligent alerts
    - Reduces false alerts

- Digital Health
  - Monitoring
    - Health behavior
    - Vital signs
  - Long-term benefit
    - Creates predictive models for illness detection and progression





# **Data Privacy and Security**

#### **Data Security or Privacy Breach**

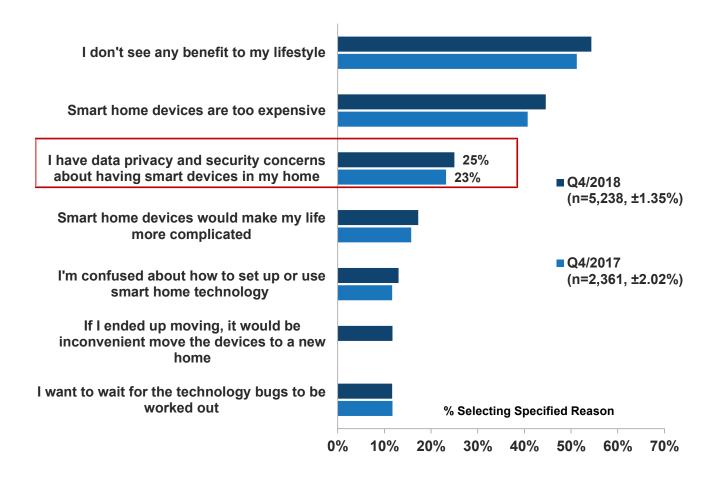
- Risks increase with connected device adoption
- Consumers concerns increasing
  - 23% in 2017
  - 25% in 2018

# Data Security and Privacy Solutions

- ISP network solutions
- Blockchain

#### **Smart Home Devices: Purchase Inhibitors (2017-2018)**

Among US BB HHs Not Owning And Not Intending to Buy Any Smart Home Device





# Technical Support

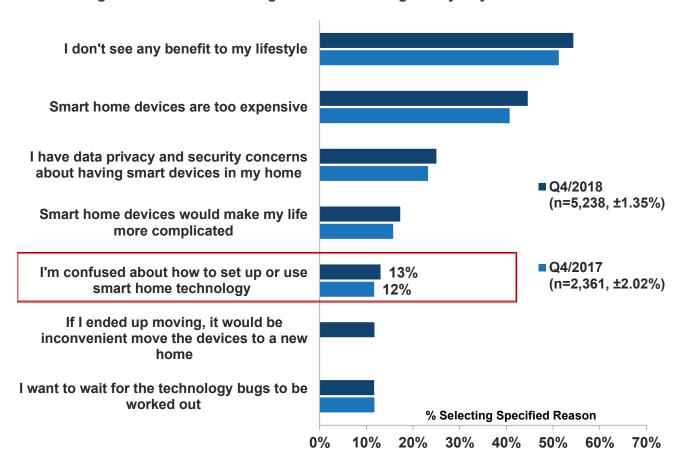
#### Technical support needs evolve

Support services can drive product adoption.

- Setup and installation services
  - Setup is a barrier for 13% of smart home non-owners and non-purchase intenders
- Purchase consultation services
  - 30% of smart home devices owners find services appealing
- Post-Setup Services
  - Loss of wireless connectivity is the leading problem affecting device owners

#### **Smart Home Devices: Purchase Inhibitors (2017-2018)**

Among US BB HHs Not Owning And Not Intending to Buy Any Smart Home Device





# **Cloud and Edge Computing**

#### **Cloud Processing**

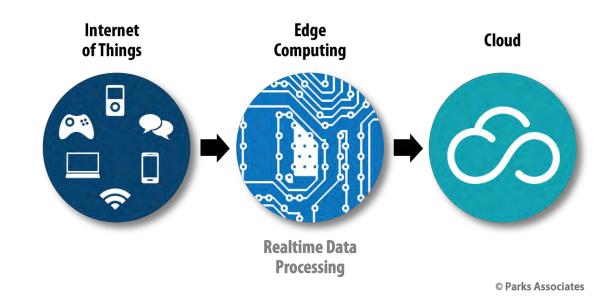
- Enables advanced data analytics
- Reduces hardware cost
- Facilitates over-the-air product updates

#### **Edge Processing**

- Lowers latency
- Helps maintain privacy and security
- Reduces dependence of bandwidth

#### **Hybrid Edge-Cloud Processing**

Aims to provide best of both worlds





# Value Beyond Connectivity: Smart Home Services

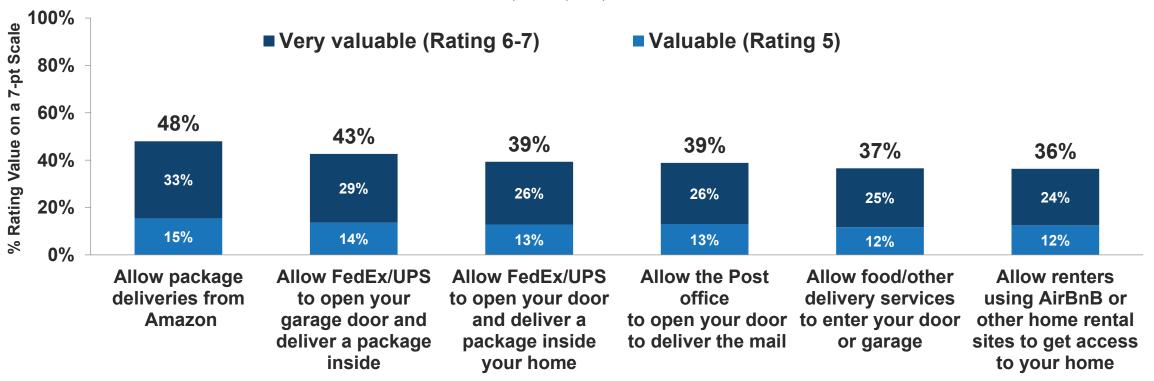




# Access Control + In-home Delivery Services

#### Value of In-Home Delivery Services (Q4/18)

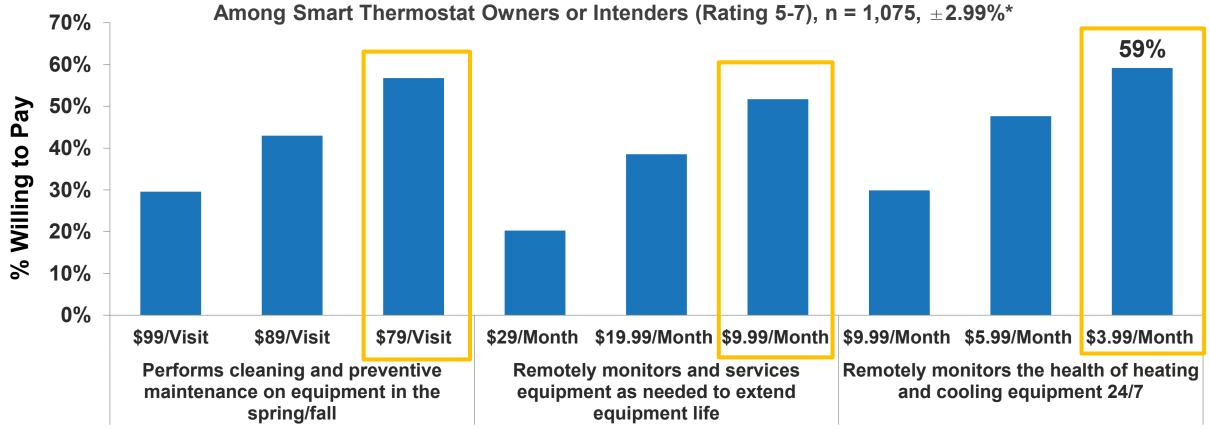
Among Consumers in U.S. BB HHs Who Own or Intend to Buy (Rating 5-7) a Smart Door Lock, Garage Door opener, or Video Doorbell, n =  $1,058, \pm 3.01\%$ 





## **Smart Thermostat + Maintenance Service**

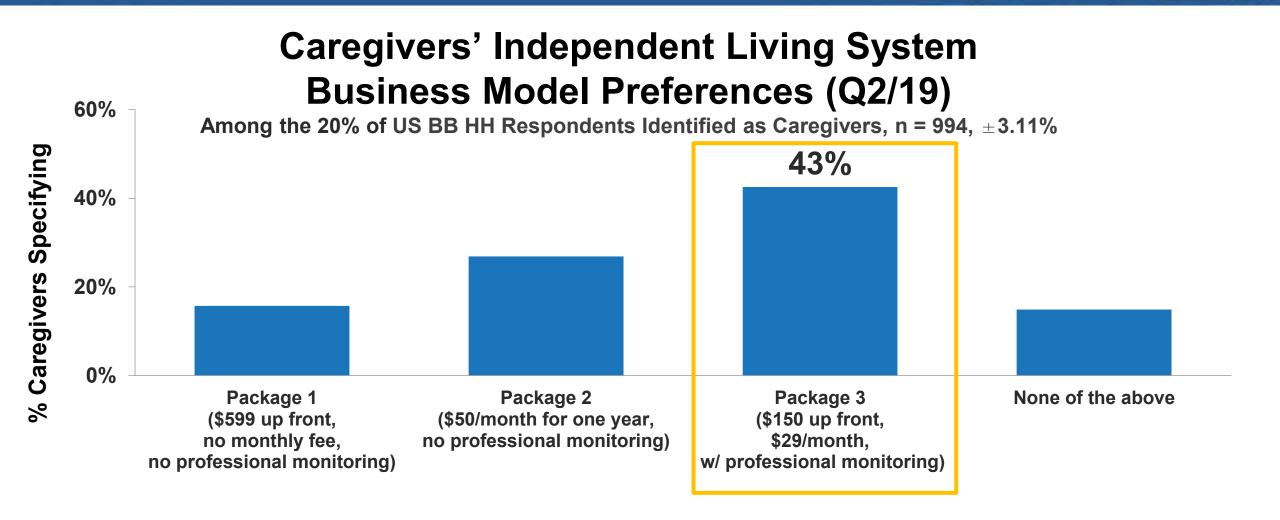
### Smart Thermostat: Willingness to Pay for Dealer Services (Q4/18)



\*Least fill logic used



# Smart Home System + Independent Living

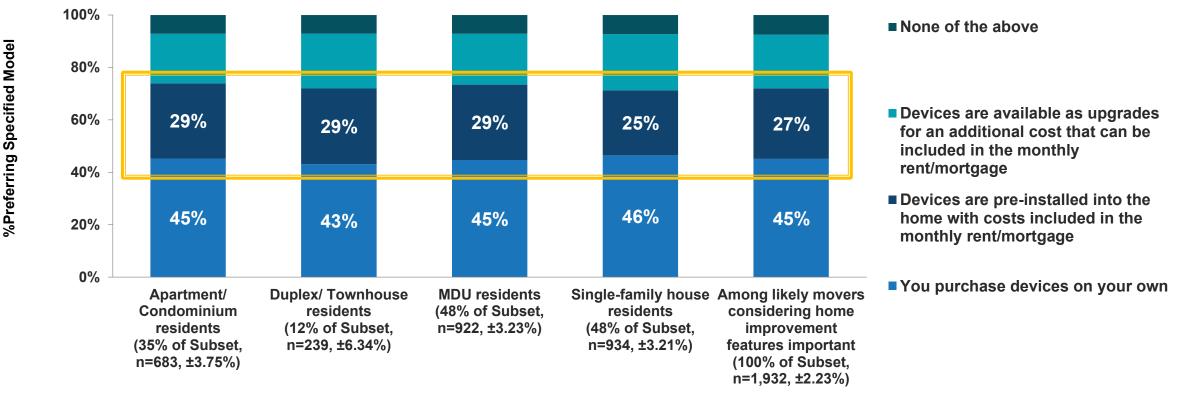




## Housing Channel – Preference for Pre-Installed

# Preferred Approach to Acquiring Smart Home Devices by Residence Segments (Q4/18)

Among Likely Movers Who Value the Home Improvement Features Important by Specific Groups

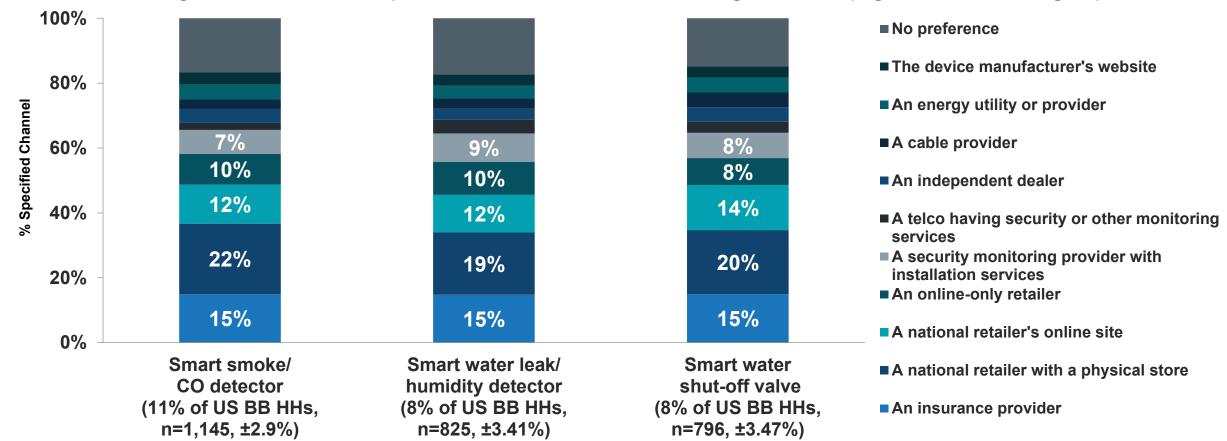




# **Insurance Channel – Safety Devices**

#### Smart Smoke/Water Device: Preferred Purchase Channel (Q2/19)

Among US BB HHs That are Specified Smart Smoke/Water Device High Intenders (High Intenders = Rating 6-7)

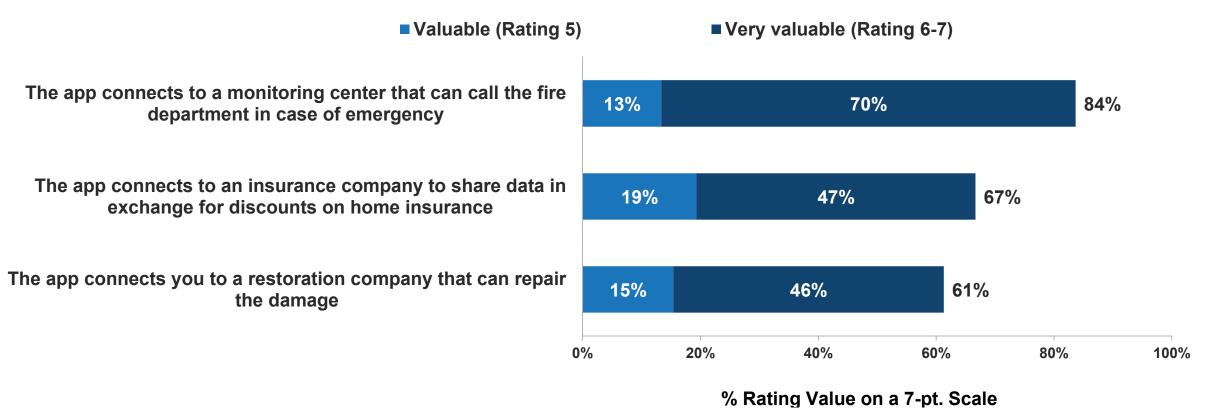




# Insurance – Monitoring Services

#### Appeal of Additional Services for Smart Smoke/CO Detectors (Q4/18)

Among Smart Smoke/CO Detector Owners or Intenders (Rating 5-7), n = 1,041,  $\pm$ 3.04%\*



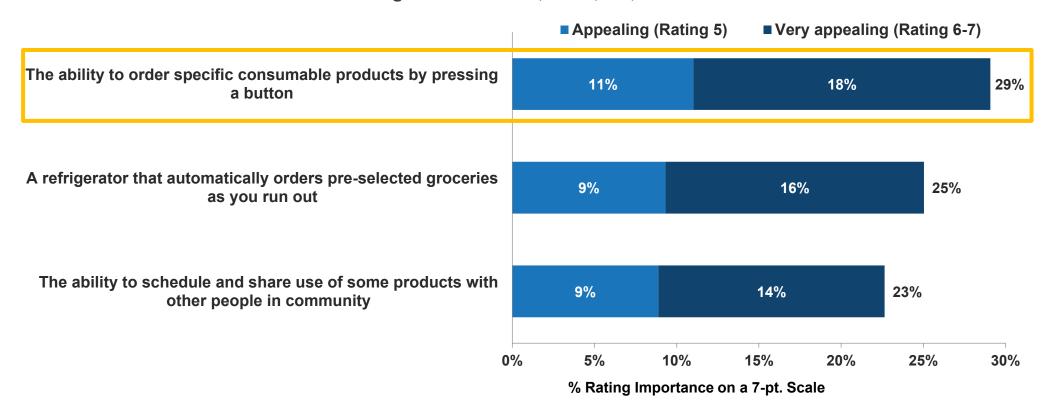
\*Least fill logic used



## **Supply Replenishment Services**

#### **Appeal of Automated Smart Home Product Scenarios (Q2/19)**

Among All US BB HHs, N = 5,000,  $\pm 1.39\%$ 



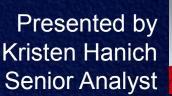
"ST2985. How appealing are the following scenarios that smart home products can enable?" | Asked of a Subgroup of 5,000 US BB HHs| Source: American Broadband Households and Their Technologies Q2 2019 | N = 10,003, ±0.98% | © 2019 Parks Associates

# Consumable **Products**

- Clothes detergent
- Dryer sheets, softeners
- Dish detergent
- Water filters
- Air filters
- Batteries
- Light bulbs
- Paper products
- Pet food
- Bottled water
- Coffee, tea
- Garbage bags, lawn bags



# Value Beyond Connectivity: CE Devices and Entertainment



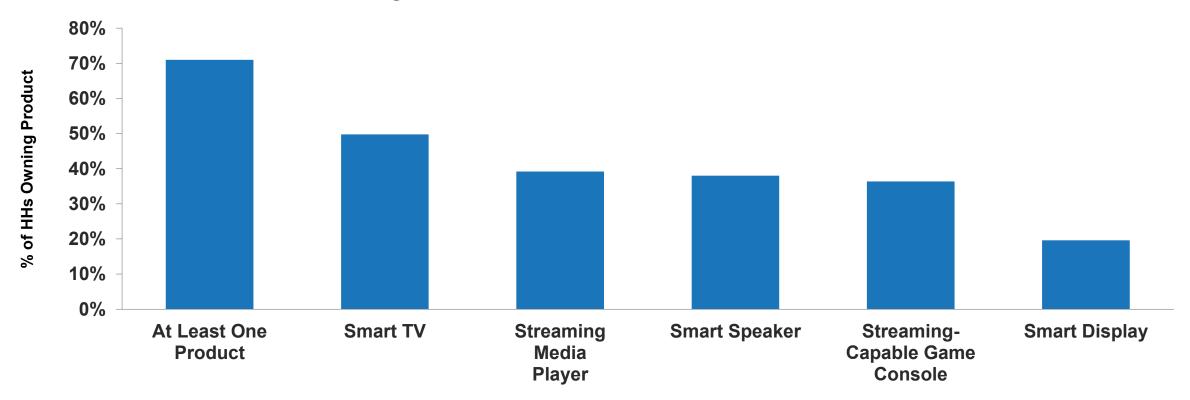




# Most HHs own OTT-capable products

#### **Adoption of OTT Entertainment Products (Q3/19)**

Among US Broadband Households, N = 10,059,  $\pm$ 0.98%



"CT2005. How many of each of the following products are in use by anyone in your household?" "Q2405. How many of each of the following smart speakers with voice assistants do you own?" | Q2406. How many of each of the following smart displays with voice assistants do you own?" | Source: American Broadband Households and Their Technologies Q3 2019 | N=10,059, ±0.98% | © 2019 Parks Associates

# PARKS Services and Advertising









amazonadvertising

# **Roku TV**

The **Roku** Channel

Premium Channel Subscriptions

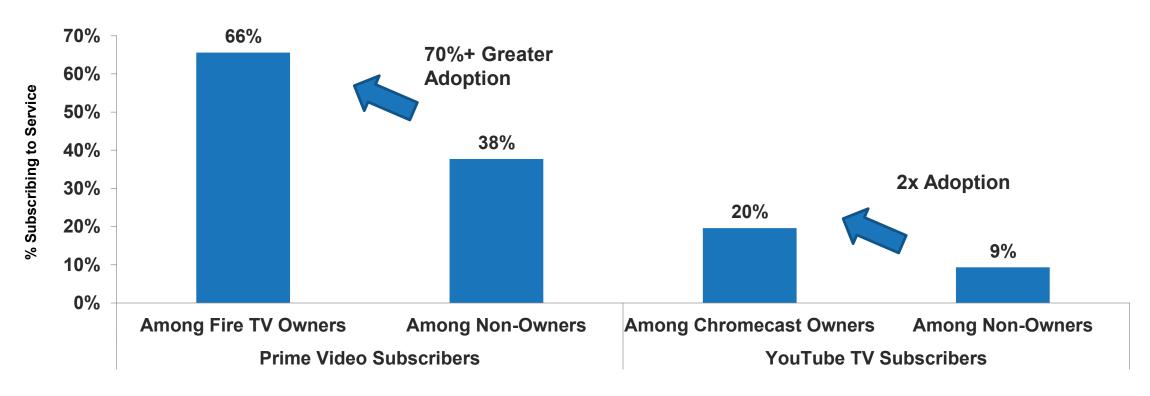
**Roku Advertising** 



# Consumers like ecosystems

#### **Use of Same-Company Services (Q3/19)**

Among Product Owners and Non-Owners, n = 5,028, ±1.38%

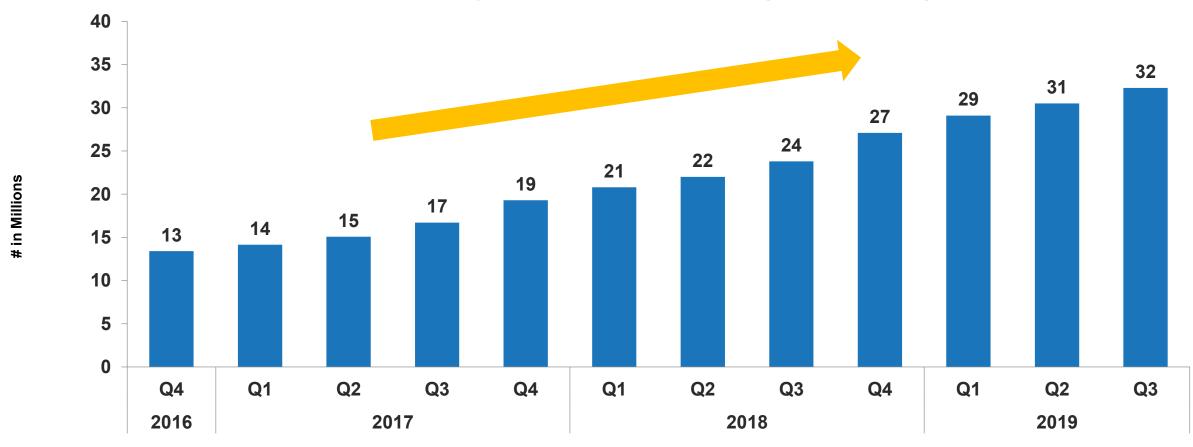


"DM6005. To which of the following video services does your household subscribe?" "CT2090. How many of the following types of streaming media players does your household use?" | Source: American Broadband Households and Their Technologies Q3 2019 | N=10,056, ±0.98% | © 2019 Parks Associates



# Next-gen platforms growing steadily

#### **Roku Monthly Active Accounts (2016-2019)**



Source: Roku SEC Filings, 10-Q and 10-K Reports, Analyst Estimates | © 2019 Parks Associates



# More eyeballs (& ears) is a top priority

Apple Music & Apple TV Apps originally only on Apple devices



Now on Echo & Google Home/ Nest, Samsung TVs, Roku SMPs & Smart TVs, Fire TV Platform

Google and
Amazon did not
support each
others' services on
their platforms



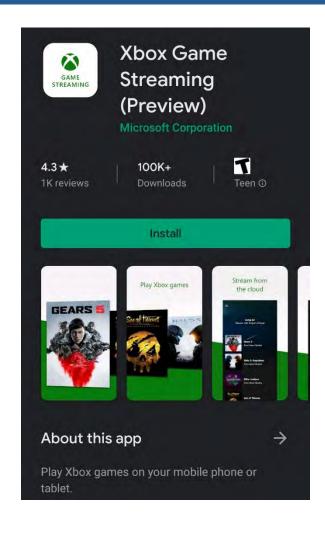
Now Prime Video is Chromecastcompatible, YouTube & YouTube TV apps available on Fire TV platform



# Gaming transcends devices













# Join Parks Associates at Upcoming Events



Future of Video: OTT, Pay TV, and Digital Media December 9-11, 2019 Marina del Rey, CA



CONNECTIONS™: The Premier **Connected Home Conference** May 19-21, 2020 San Francisco, CA



CONNECTIONS™ Summit at CES: CONNECTIONS **Consumer IoT and Smart Home** 

January 7, 2020 Las Vegas, NV



**Connected Health Summit: Independent Living & Wellness** September 1-3, 2020 San Diego, CA



**Smart Energy Summit: Engaging the Consumer** 

February 17-19, 2020 Austin, TX



**CONNECTIONS™** Europe: Strategies For the Smart Home and Consumer IoT November 2020

Amsterdam, The Netherlands





# CONNECTIONS SUMMIT

January 7, 2020 Las Vegas, NV

**Smart Home Business Models and Strategies** 

#CES2019

@CONN\_Summit



PARKS ASSOCIATES



# Agenda: 7 January 2020



**Privacy and Security: Protecting Consumers** 10:00 AM

11:00 AM **Disruption in Home Security: Smart Home Convergence** 

12:15 PM **Independent Living and Wellness: Smart Home Tech** 

Home Networks: Wi-Fi, 5G, and Mesh 1:15 PM

**Energy Management Solutions: Smart Home Crossover** 2:00 PM

3:15 PM **Installation and Support: Next-Gen Smart Home Services** 

Distribution: Builders, Broadband, Security, Retail, and Insurance 4:15 PM

**Networking Reception** 5:30 PM

#### **Sponsors**

**Program Guide** 



**Event** 

















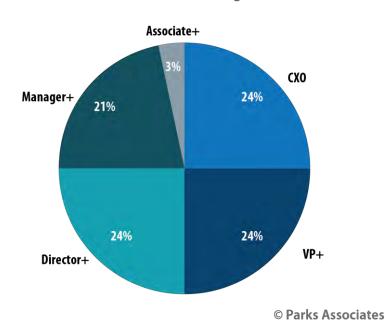
# **Attendee Demographics**



Parks Associates research analysts present consumer and industry research and moderate interactive discussions with IoT industry leaders on trends and crossover opportunities among these ecosystems, including insights on voice, connected cars, machine learning, AI, and security.

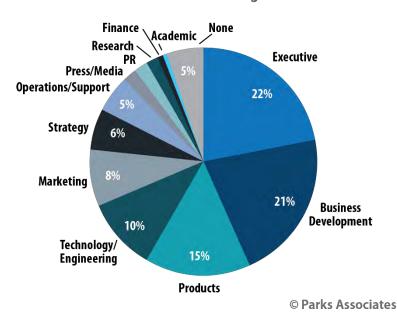
#### **Attendee Title Levels**

CONNECTIONS™ Summit 2019 Registered Attendees



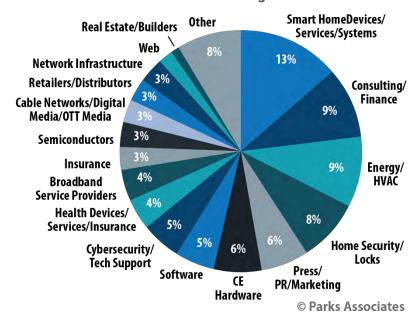
#### **Attendee Title Function**

CONNECTIONS™ Summit 2019 Registered Attendees



#### **Attendee Industry**

**CONNECTIONS™ Summit 2019 Registered Attendees** 









# Thank You



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