

# Understanding the Customer behind the Data

#### Smart Efficiency Requires Smart Data: Using Data to Better Serve Customers

**Midwest Energy Efficiency Alliance** February 20, 2019

Omar Siddiqui Senior Technical Executive



# Integrated Energy Network

Customers at the center



Flexible generation, storage and loads to balance distributed variable generation

Physical connections with secure data and communications

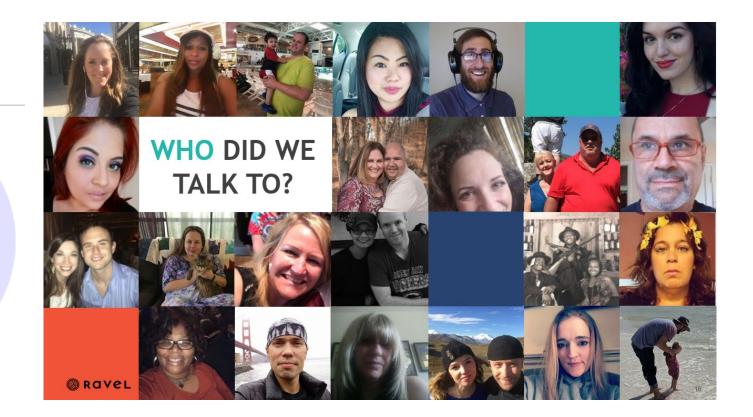
# Integration to Provide Reliable, Safe, Affordable, Cleaner Energy and Expanded Customer Choice

#### What do customers tell us they care about?

**Meaningful Insights** 

What people care about and find valuable

Data utilities have (consumption + other data)



#### EPRI surveyed a consumer panel on smart homes, and asked...



## "If your home could talk, what would you want it to tell you?"





www.epri.com

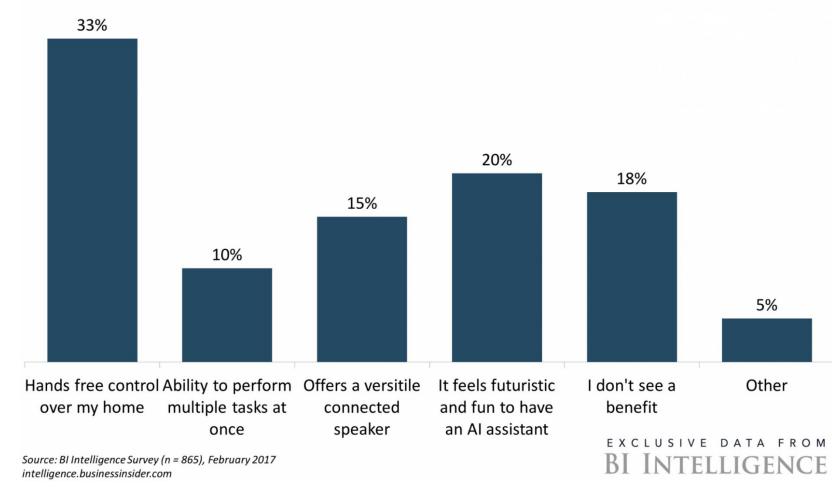
## "If your home could talk, what would you want it to tell you?"





#### Smart Home Voice Assistant

**Top Perceived Benefits of Smart Home Voice Assistants** US Consumers

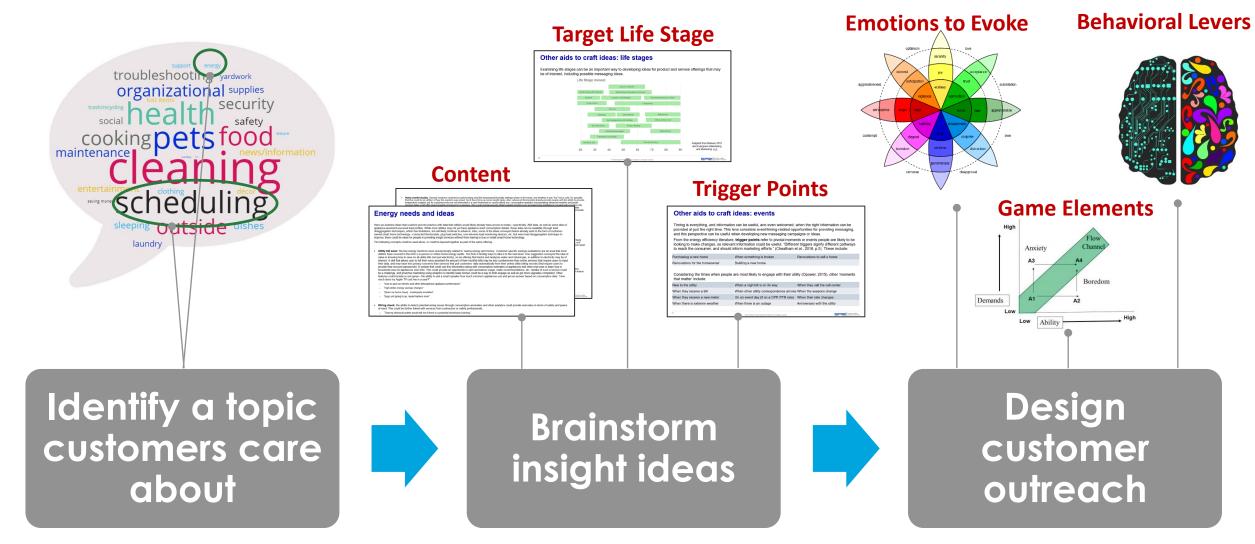




- Voice assistants have gained traction as the hub of the smart home
- Amazon Echo Dot was the highest seller during "Prime Day"
- Behind wireless speakers lies a whole ecosystem



## Shaping customer-centric content



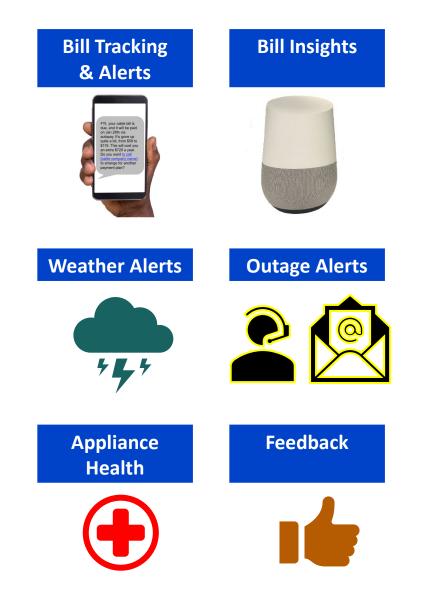


www.epri.com

## Key takeaways from customer panel on smart homes

- Top topics: cleaning, pets, health, scheduling, food
- Energy not a priority
- Focus on relevant areas
  - Scheduling, security, troubleshooting, maintenance, etc.
- Brainstorm based on customergenerated ideas
- Test value to customers

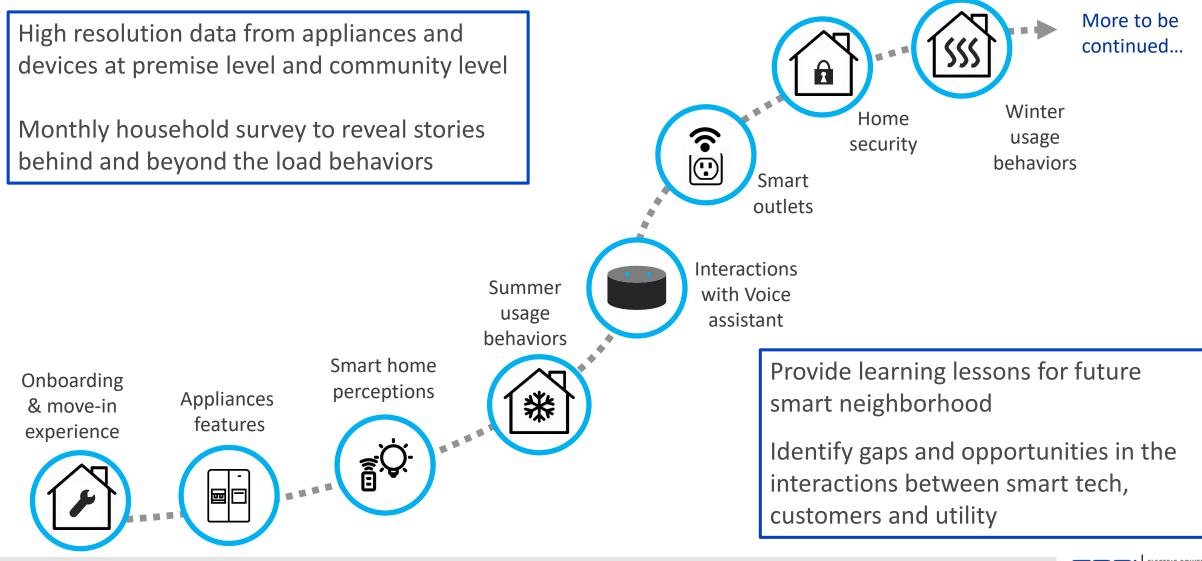
www.epri.com





#### **Customers & Smart Homes**

#### Understand customer interactions with smart homes as an ongoing journey





## **Core Functions of Connected Home Ecosystems**

	1
	Optimization
-	City

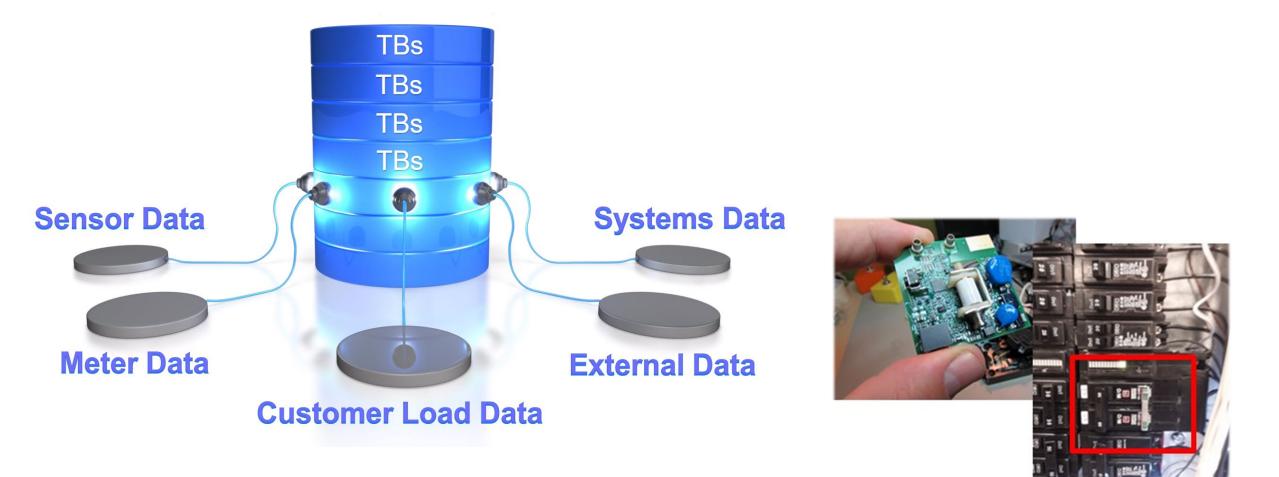




<b>Optimization</b> Use of data and customer inputs to provide autonomous programming and response targeted for a specific need	Orchestration Coordinated programming and response of end-use loads with a premise	<b>Aggregation</b> Grouping of end-use loads, typically of the same end-use to respond to particular utility controlled signals
<b>Examples –</b> Whisker Labs and Nest Labs	<b>Examples</b> – Amazon Alexa, Google Home, Apple HomePod, Samsung SmartThings	<b>Examples</b> – EnergyHub, AutoGrid.



#### **Sources of Customer Data**



#### Energy Management Circuit Breaker

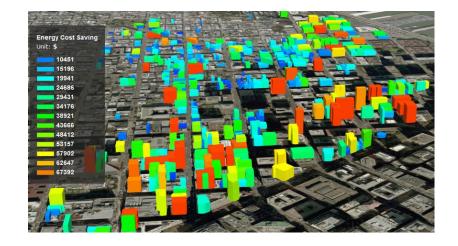


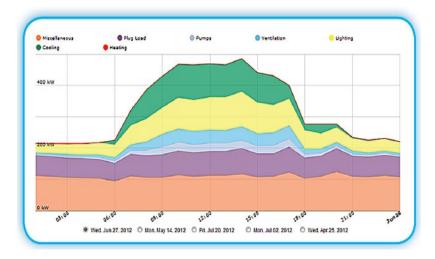
11

# Leveraging AMI data analytics for customer services

- Targeted customer offerings using analytics of AMI and building data
- Applications for energy efficiency, DR and electrification
- Existing AMI analytics products have not yet scaled to commercial and residential programs

Retroficiency





ING

FIRSTFUEL

ENERGY ANALYTICS

www.epri.com

XeroHome™





#### Together...Shaping the Future of Electricity



