

embedded **VISION** SUMMIT 2018

Intelligent Consumer Robots powering the Smart Home



Mario E. Munich, PhD – SVP Technology

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iRobot is the global home robot leader. We bring over 25 years of advanced robotics experience into helping people find smarter ways to clean and accomplish more in their daily lives.



Roomba



Braava

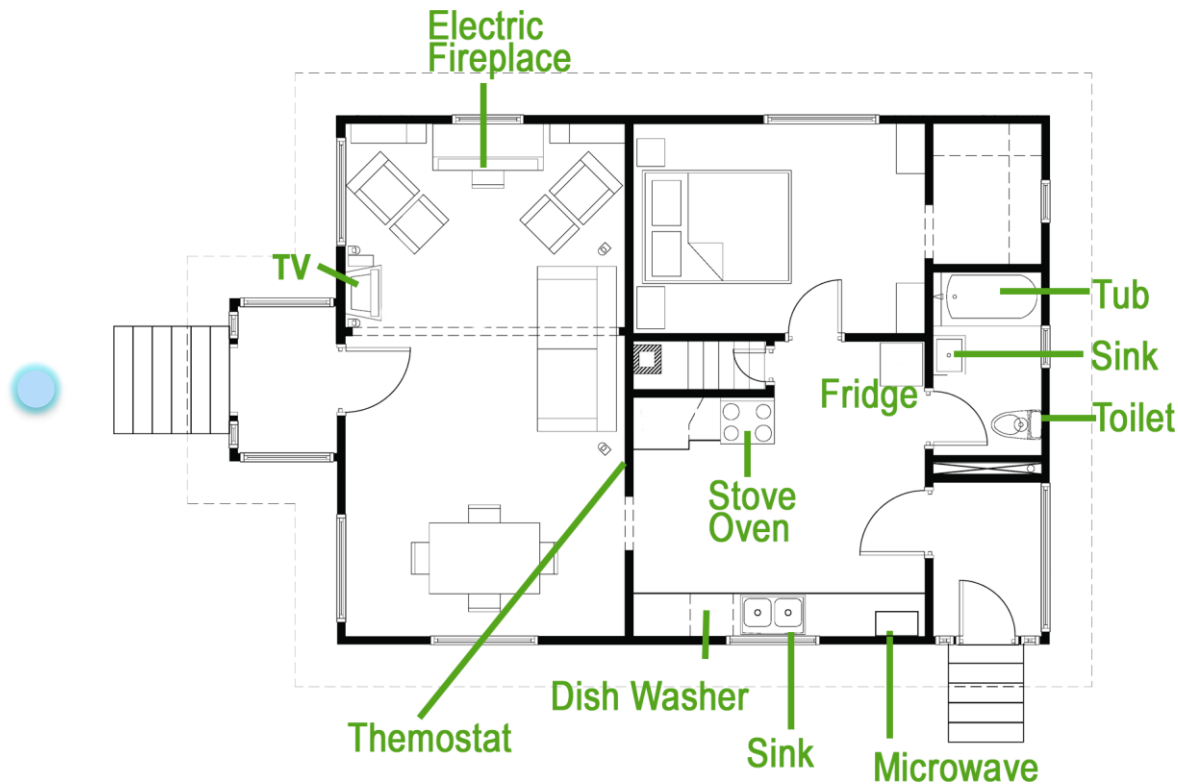


More than 20M robots sold.



A Vision of Robots and the Smart Home.

Understanding User Behavior (Spatial and Temporal)



Good Morning.



Morning Routine.



Home Alone.





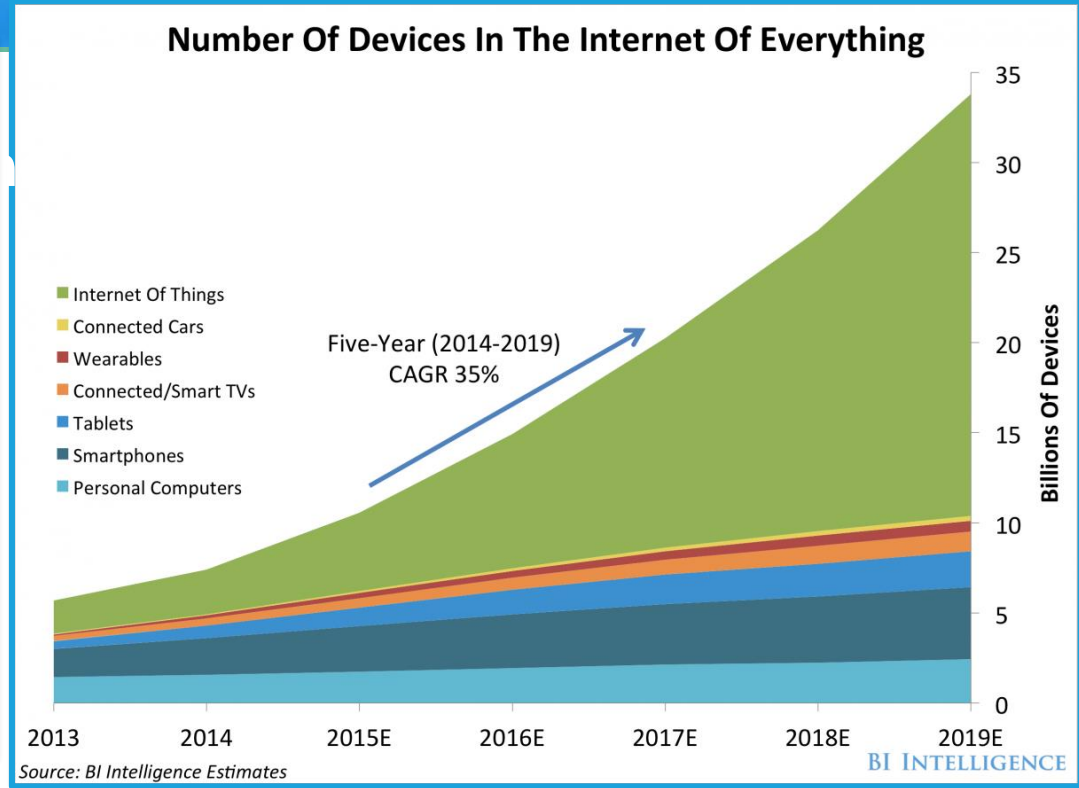
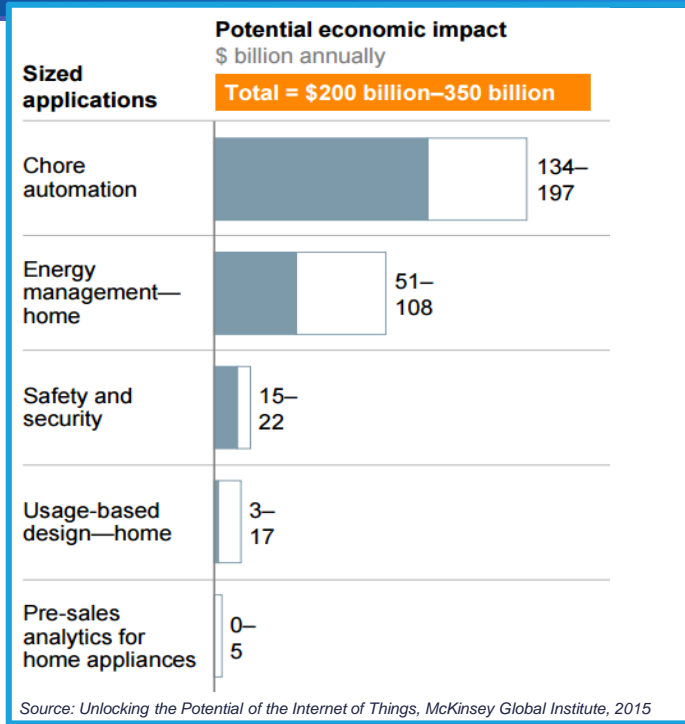
The **Smart Connected Home** is forecast to be a \$200+ billion market by 2025.*

Providing for **increased comfort, security, & efficiency**, leveraging 100s of connected devices & sensors installed in the smart home.

**Unlocking the Potential of the Internet of Things, McKinsey Global Institute, 2015*



Internet of Things and the Smart Home Market



Connected Devices → Smart Home?

Necessary but not Sufficient.

Usability Challenges

Unconnected Status Quo



*is this better?
more usable?*

Connected Devices



83% of
connected device
owners have
trouble using
them

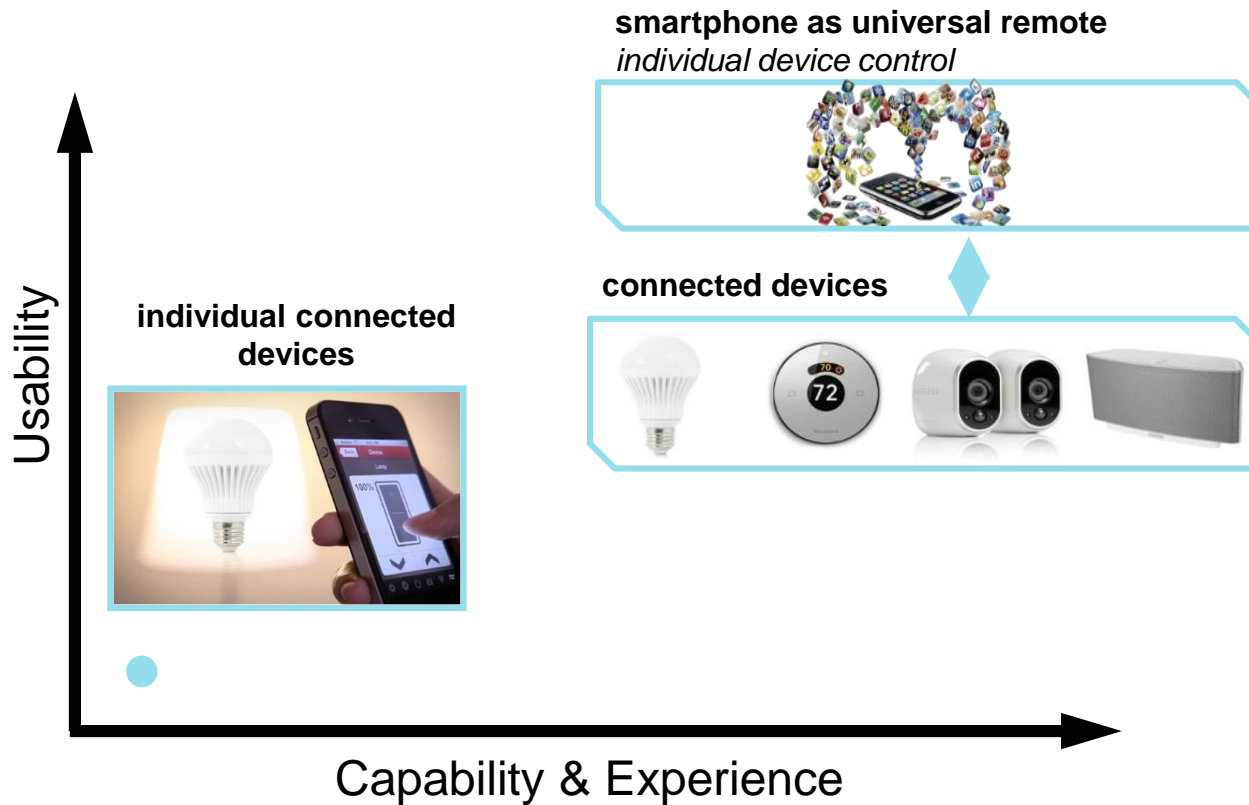
33% claim
ease-of-use
top priority

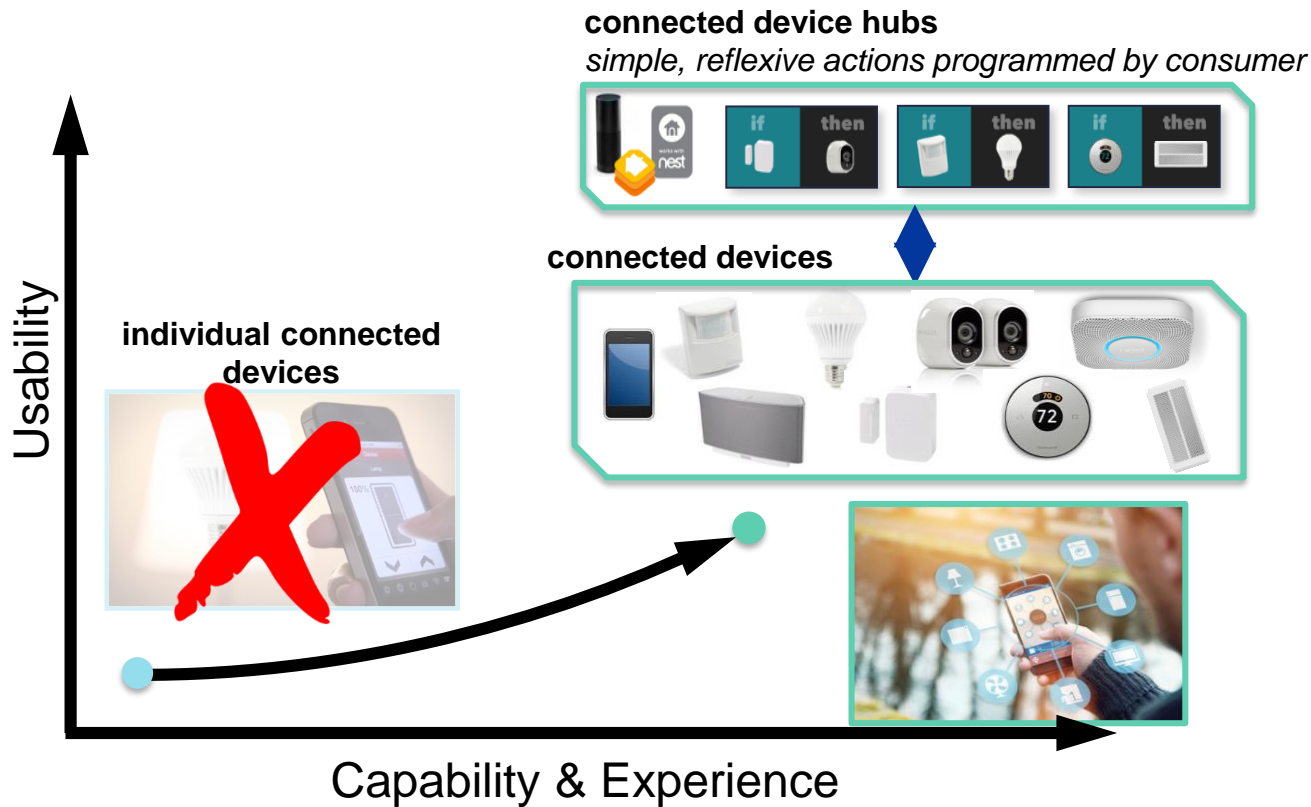
24%
too complicated
to use

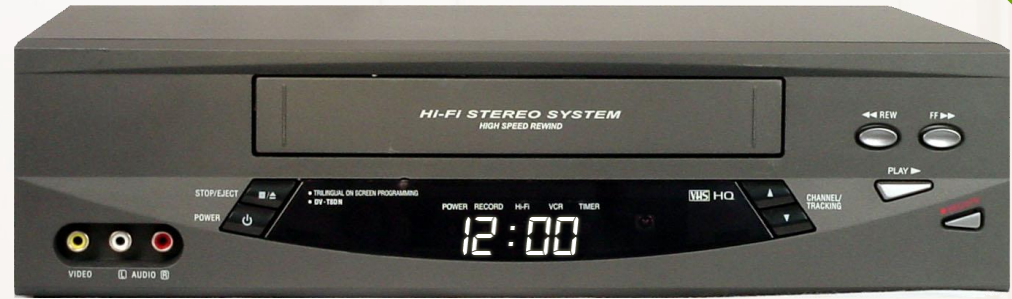
21%
don't work
as promised

Source: Engaging the Digital
Consumers In The New Connected
World, Accenture, 2015

Usability is a Barrier to Adoption and Market Growth.





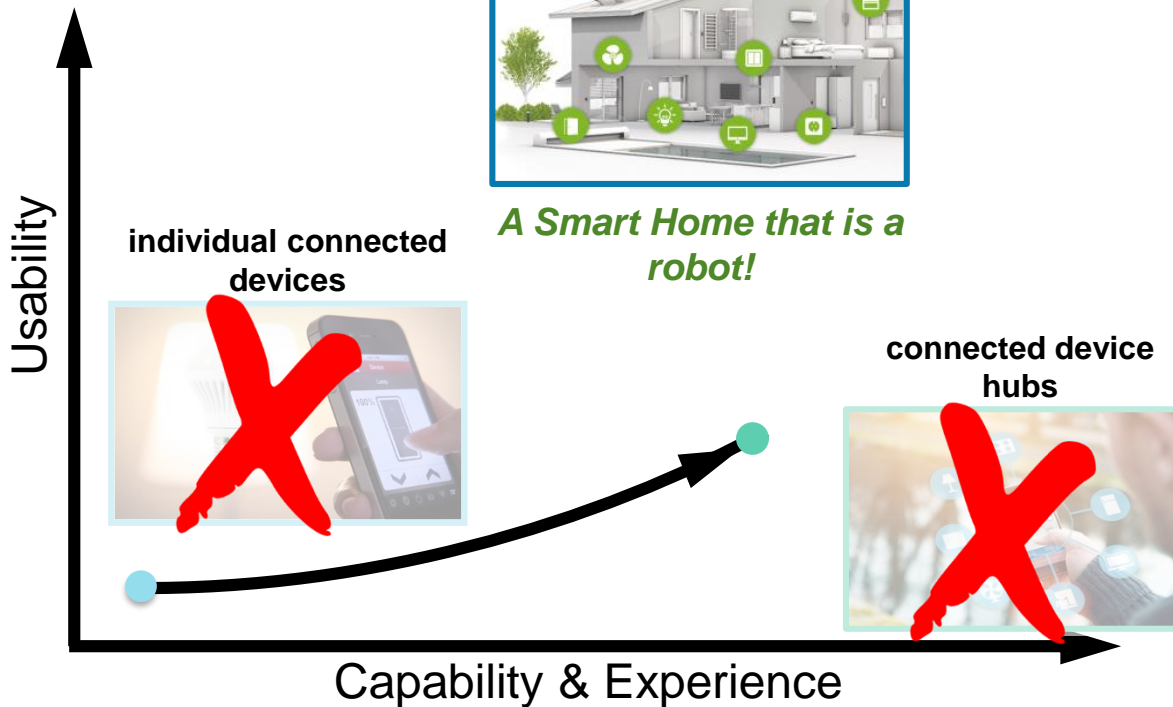


Consumers don't have a great history of managing complexity...

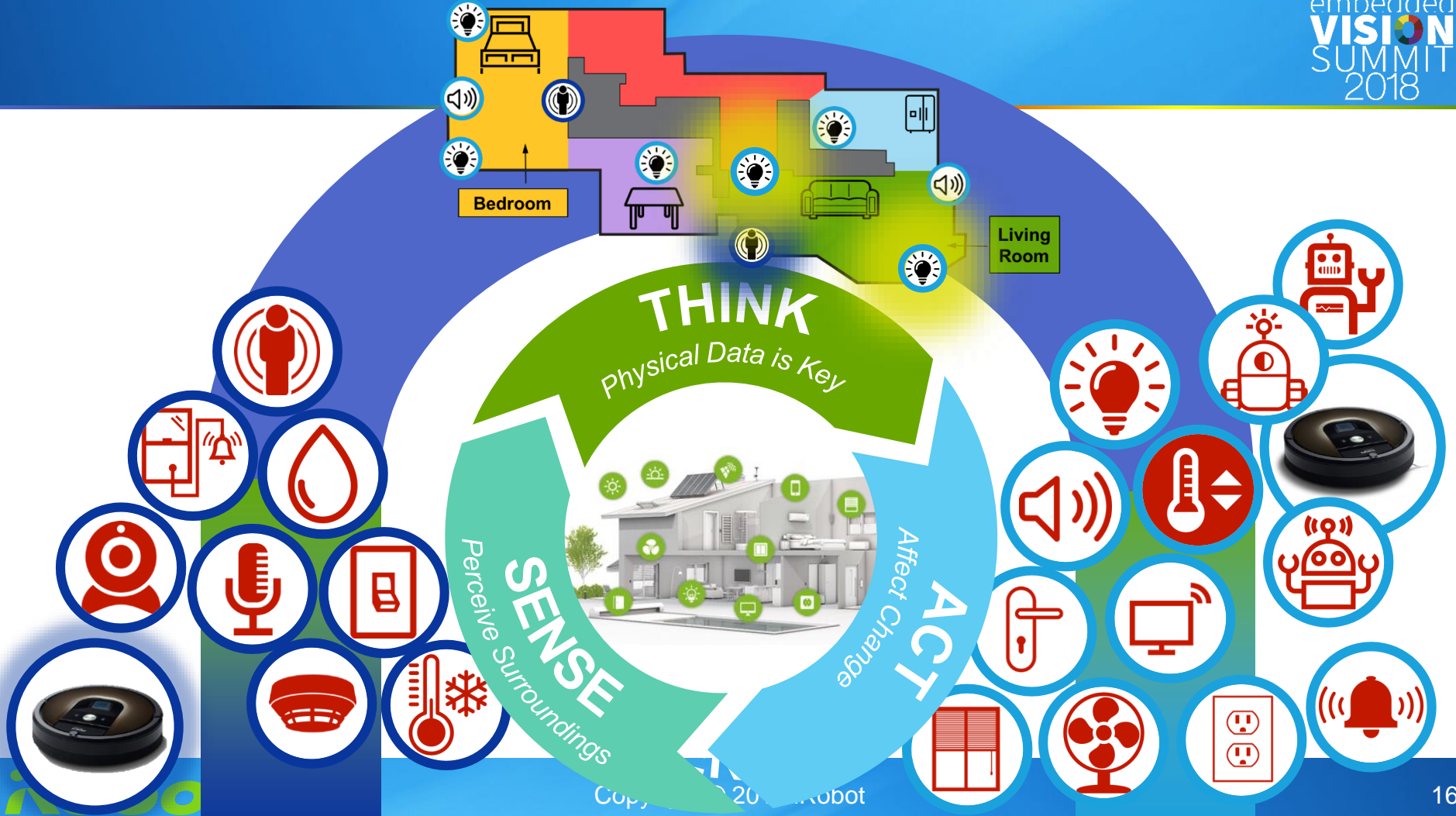
A home that just does the right thing...



A Smart Home that is a robot!





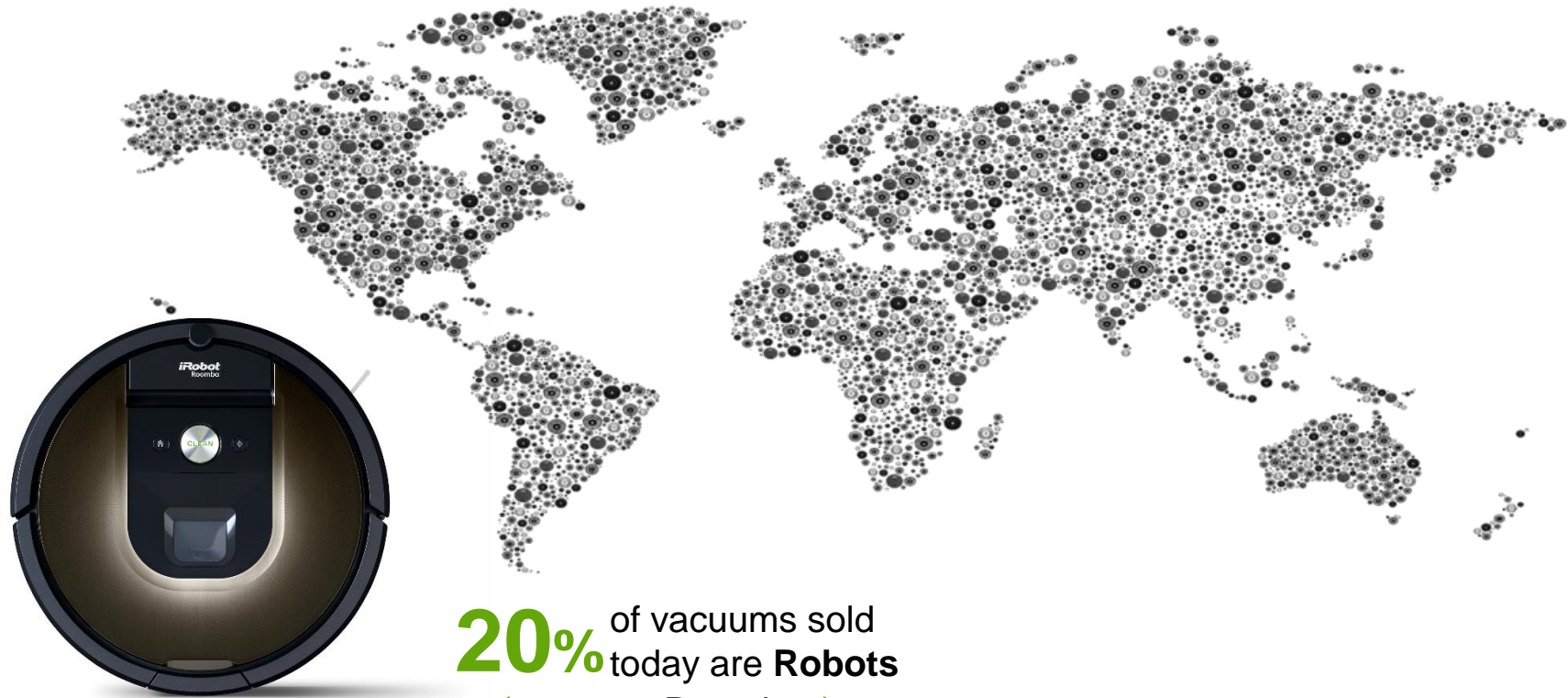




Roomba State-of-the-Art Mapping & Navigation
Mapped > 3 BILLION sqft of home in 2016.



Over 20 Million robots sold



20% of vacuums sold
today are **Robots**
(most are Roombas)

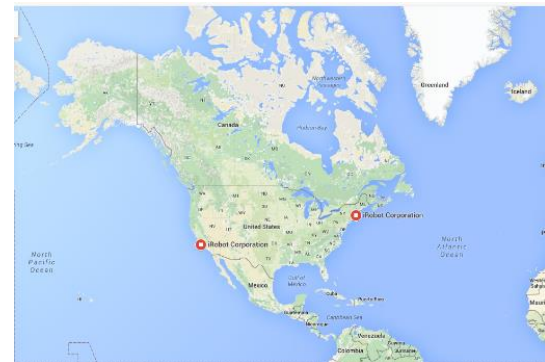


Physical Data is Key to a Usable Smart Home
...and the solution is at our fingertips.



We are Hiring!!!

- Looking for **Engineers** and **PhDs** interested in **Robotics** and **Vision**
- Pasadena, CA and Bedford, MA
- Contact:
mmunich@irobot.com



- Unlocking the Potential of the Internet of Things, McKinsey Global Institute, 2015
- The Internet of Everything: 2015, BI Intelligence, Dec 30, 2014
- Engaging the Digital Consumers In The New Connected World, Accenture, 2015