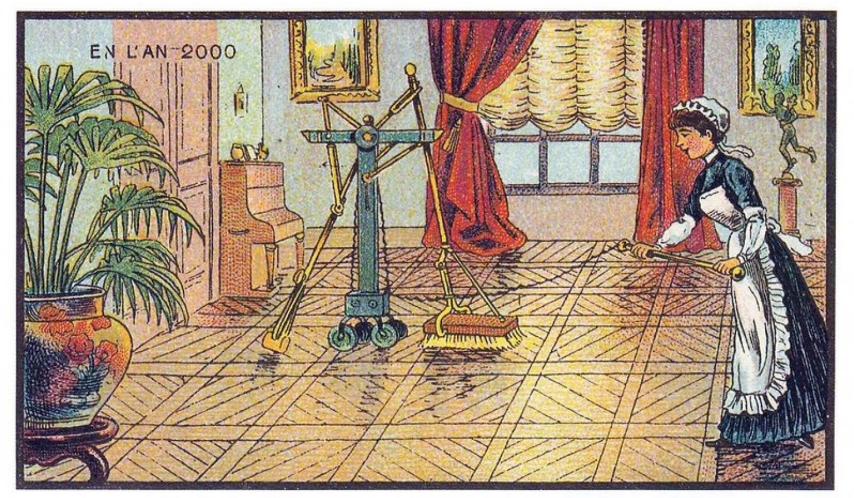


- 1. Hvor er teknologien på vej hen?
- 2. Hvad kan vi lære af bygningen?
- 3. Hvordan bliver hjemmet smart?



Electric Scrubbing

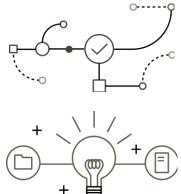














# **Understand**

Like humans do

## Reason

to extract ideas

### Learn

From past results

### Interact

In a natural way



### **Personality Portrait**

24378 words analyzed: Very Strong Analysis

### Summary

You are a bit critical and excitable.

You are adventurous: you are eager to experience new things. You are authority-challenging: you prefer to challenge authority and traditional values to help bring about positive changes. And you are self-controlled: you have control over your desires, which are not particularly intense.

You are motivated to seek out experiences that provide a strong feeling of efficiency.

You are relatively unconcerned with both tradition and taking pleasure in life. You care more about making your own path than following what others have done. And you prefer activities with a purpose greater than just personal enjoyment.

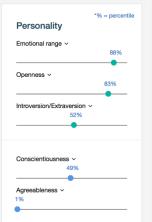
How did we get this?

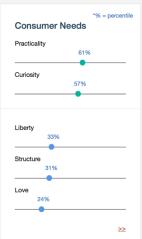
#### You are likely to

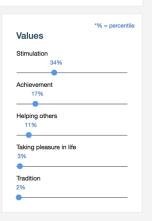
- be sensitive to ownership cost when buying automobiles
- A have experience playing music
- like historical movies

#### You are unlikely to

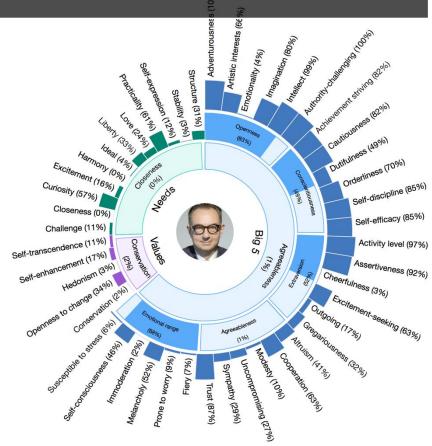
- be influenced by social media during product purchases
- x prefer style when buying clothes
- be influenced by brand name when making product purchases





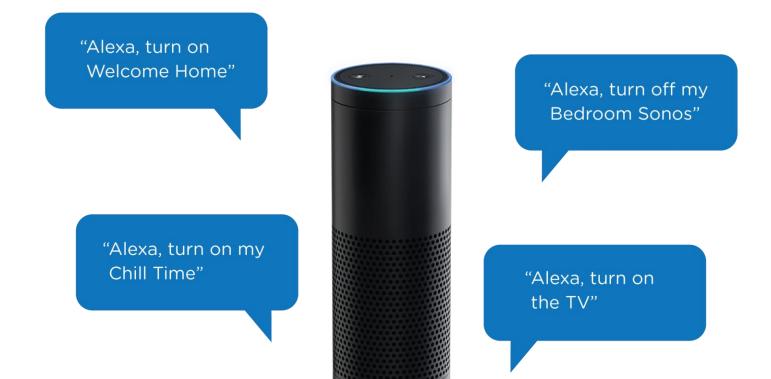


# Watson Personality Insights











I SEE YOU

# A collision of Chinese manufacturing, globalization, and consumer ignorance could ruin the internet for everyone







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By 2025, buildings will be the #1 consumer of energy

Up to 50% of energy and water in buildings are often wasted

Real estate is the 2<sup>nd</sup> largest expense on the income statement

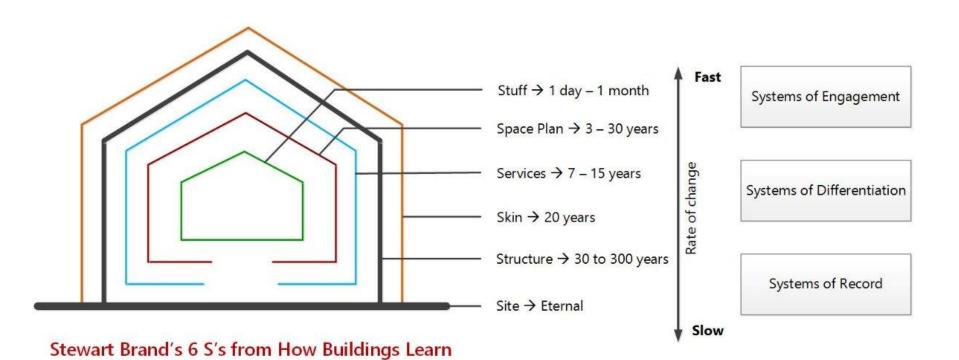


Energy usage reduced by up to 40% and maintenance cost 10-30%

91% occupancy achieved by higher building usage in smarter buildings

Employee productivity increased up to 18% on average

65% of occupants willing to help make their workplace more environmentally responsible.



# The Cognitive Building

LEVEL 3

PEOPLE CENTRIC

LEVEL2

ASSET CENTRIC

LEVEL 1

FACILITIES CENTRIC

Ambient intelligence, productivity, happiness

Signage, security, assets, services, processes

Power, water, air, data

### **CUSTOMER NEEDS**

Adapt to me

Find what I need

Ease of access

Space utilization

FM productivity

**Energy management** 

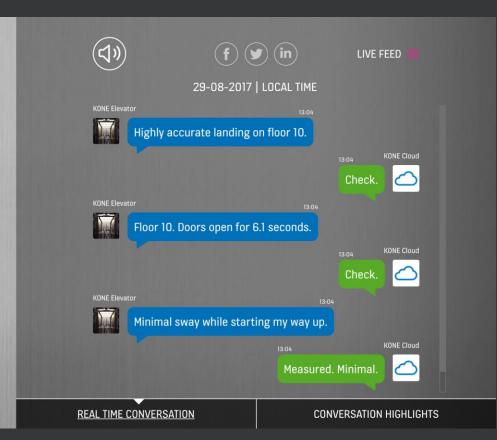
Structure management



< CHINA NETHERLANDS >

# COPENHAGEN, DENMARK









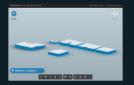
### COGNITIVE BUILDING TOUCHPOINTS

# The Composable Building

Cognitive analytics for deep insights to unlock new cost savings.

Customizable IoT

**platform** that provides simple integration and high scalability



Navigate a campus via Watson speech



Manage and find your assets in 3D



Understand energy flow and diagnose anomalies with cognitive analytics



Easily monitor and maintain assets before they fail



Understand temperature, comfort and occupancy in buildings and data centers

INTERACT

REASON

LEARN

INTEGRATE







Plug-and-play instrumentation with IoT devices



Vibration Data with IoT Sensors



Electricity with IoT Meter



Occupancy with PIR



Proximity with BLE



Desk Comfort Sensors



Rapid modelling with laser scanner



**Big Data and Analytics** 

Cloud

Mobile

Networking

Security Servers

Virtualization

Innovation

News & Analysis

Videos

Slideshows

Blogs

White Papers & Webcasts

Sponsored Content

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Home > Innovation

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### If These Walls Could Speak: IBM, Harman Powering Cognitive Rooms

By: Chris Preimesberger | April 19, 2017









f in G (0) comments

In a meeting in which a question is asked and no one knows the answer, just ask the room itself, because it will dig up the answer for everybody within a few seconds.



The day is now here when people can gather inside a conference room for a meeting and not have to worry when someone asks a question to which no one knows the answer.

All someone will have to do is ask the room itself, because it will dig up the answer for everybody within a few seconds. The adage "if these walls could speak," is coming true in the most literal sense.

This is exactly what IBM Watson and several of its partners have done with its new Voice-Enabled Cognitive Rooms, starting with the first use case at Thomas Jefferson University Hospital in Philadelphia that was

announced April 19. Patients there now interact with in-room speakers that are connected to the IBM Watson IoT Platform and can easily control their in-room subsystems (windows, lights, temperature settings) without having to physically perform any manual tasks or try to figure out new systems.

For conference rooms, IBM's cognitive intelligence apps are embedded into Harman microphone soundbars and alarm clocks with other form factors being developed, so that users can interact by using natural language. Consumers can simply ask questions or issue commands with their voice when in a room. These requests are then sent to the Watson cloud and Watson IoT services, which work with Harman's technology to allow people to obtain information or other kinds of help in getting tasks done.

#### Further reading

AT&T to Fight DOJ Opposition to Time Warner Merger

Volvo, Uber Will Provide Thousands of Autonomous Cars

Order Up a Videoconference, and the Room Does It

For example, now when an employee enters a conference room, he or she can start a video conference, launch a presentation and do other tasks using voice only. In the future, these tasks will be executed automatically based on what the system has learned about the employee based on previous meetings. Thus, the system gets smarter about the person and



### Editor's Choice



By: Pedro Hernandez I November 22, 2017









Microsoft's Cloud Rolls Out Red Carpet for VMware Workloads f in G

Dome9 Unveils Magellan









30-06-2016

### ISS Turns to IBM Watson IoT to put the 'Human Touch' into buildings

Global leader in facility services taps insight from sensors and devices to create better, happier buildings.

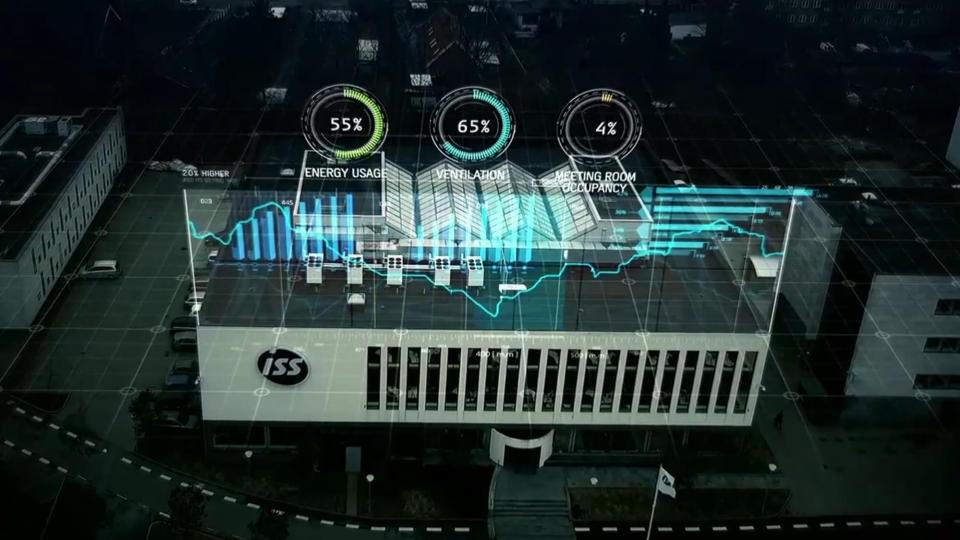
ISS, a leading global provider of facility services, has signed a commercial agreement with IBM to use the power of Watson IoT to transform the management of over 25,000 buildings around the world.

Headquarted in Copenhagen, ISS is one of the world's largest private employers with over half a million staff managing everything from concierge to cleaning, catering to technical maintenance for thousands of high profile clients including Rolls-Royce, Nordea, Novartis, and Royal Air Force in the UK.

Through the new agreement, ISS will tap IBM's Watson IoT platform, consulting and advanced facilities management technologies to transform the services it provides to building owners and users around the world with the goal of making buildings more personalized, intuitive and user-friendly,

Working with IBM, ISS will integrate and analyse data from millions of devices and sensors embedded into buildings including doors, windows, chairs, meeting rooms, dispensers and air conditioning systems. Data will be uploaded onto IBM's Watson IoT cloud platform and cognitive computing technologies will learn from this data helping ISS optimise its services as well as furthering its understanding of how people use buildings, thereby creating new opportunities for innovation.





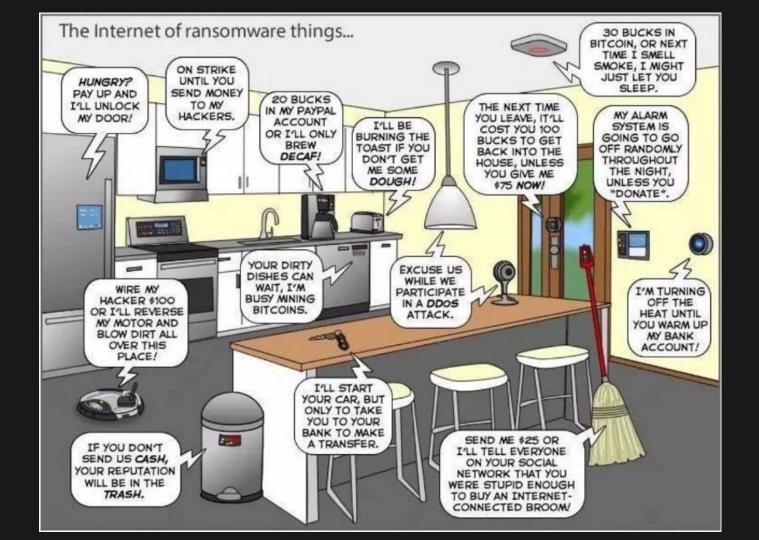








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Follow

0

### 

@internetofshit

whatever, put a chip in it. say hello: internetofshit@gmail.com

In your stuff

& facebook.com/internetofshit

Joined July 2015

Tweet to

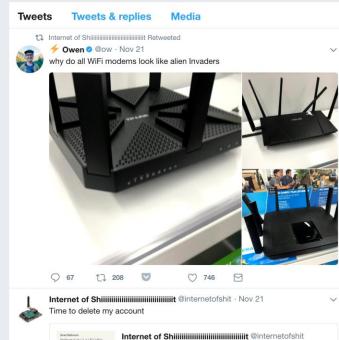
Message

### 2 124 Followers you know



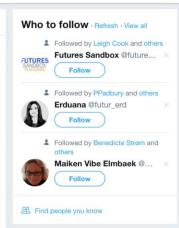
### 1,023 Photos and videos

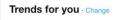




on line

Ycombinator would like to give you cash to put your toilet





### #kv17

@HoffmannAnja is Tweeting about this

#### #ÅretsLeder17

@nicolaj\_com, @danmark50 and 1 more are Tweeting about this

### #shipping

1,594 Tweets

@HoffmannAnja is Tweeting about this

### #dkforsk

@HumanomicsMap and @HoffmannAnia are



- Ikke-sammenhængende produkter
- Gigantiske problemer med sikkerhed
- Ofte afhængighed af smartphones
- Få standarder
- Forskelligartet design

Men... kan vi gøre det rigtigt, og i fællesskab definere standarder, vil den digitale bolig

- Være en sammenhængende oplevelse
- Tænke foran og forstå os
- Skabe sundhed og godt miljø
- Være bæredygtig

Kim Escherich escherich@dk.ibm.com +45 2880 4733 internetofthings.dk

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@kescherich | @danmark50



/in/escherich

