THE INTERNET OF THINGS

THE PAST, THE PRESENT, AND THE FUTURE

In a 1999 presentation, Procter & Gamble employee **Kevin Ashton** used the phrase **"Internet of Things"** to link RIFD technology to the Internet.

15 years after it was first coined, the term has come to describe a future where everything is interconnected. In 2014, the Internet of Things may finally be ready for its big debut.

CURRENT IoT TECHNOLOGY

NEST THERMOSTAT
Monitors your schedule and programs itself to maximize both comfort and energy efficiency

PROTEUS DIGITAL HEART SENSOR
This ingestible sensor monitors physiologic and behavioral medical metrics

SMART BELLY TRASH CAN
Collects data in real time to alert trash collectors when it needs to be emptied

GOOGLE GLASS
Perhaps the most famous IoT device, this puts advanced smartphone functionality in a headset

TIMELINE

1800s

The first electronic communication devices are created, including the telegraph, fax machine, and radio

1926

Nikola Tesla envisions a wirelessly interconnected world

"When wireless is perfectly applied the whole earth will be converted into a huge brain."

1989

Tim Berners-Lee proposed the **World Wide Web**

1990

The first connected devices are created – a toaster and drink machine

MID 1990s

The **rise of the Internet** and more experimental devices

- 1993 *Trojan Room Coffee Pot*
- 1998 *inTouch Project*
- 1998 *Mark Weiser's Stock Market Water Fountain*

1999

Kevin Ashton coins **'Internet of Things'** and founds the **MIT Auto-ID Center**

2000

LG announces plans for the first Internet refrigerator

2002

Ambient Orb is released, which displays Dow Jones, personal finance, and weather information based on Internet data

2005

The United Nations first mentions IoT in a published **International Telecommunications Union** report

A new dimension has been added to the world of information and communication...from anytime, anyplace connectivity for anyone, we will now have connectivity for anything. Connections will multiply and create an entirely new dynamic network of networks – an Internet of Things.

2008

IPSO alliance launches to promote the use of Internet Protocol (IP) in connected devices

2011

Internet Protocol version 6 (IPv6) launches, which allows around 340 undecillion IP addresses (340,282,366,920,938,463,463,374,607,431,768,211,456)

"We could assign an IPV6 address to every atom on the surface of the earth, and still have enough addresses left to do another 100+ earths."

2013

Intel launches 'Internet of Things Solutions Group'

2013 IoT ARTICLES

- WIRED MAY — *Welcome to the Programmable World*
- VENTURE BEAT NOV — *Here's Why 2014 Will be the Year of the Internet of Things*
- QUARTZ DEC — *How The Internet of Things Will Replace the Web*
- CLICKZ DEC — *5 Ways The Internet of Things Will Disrupt Business in 2014*
- CNBC DEC — *Internet 2014: Rise of the Things*

2014 AND BEYOND

At the end of 2012, there were around **8.7 billion connected objects** in the world. As the trend grows, Cisco expects that number to reach over 50 billion by 2020. While a fully connected world – with self-driving cars, grocery-buying fridges, and endlessly quantifiable personal gadgets – may seem like a dream for the now, the Internet of Things may bring it here sooner than you think.

SOURCES

kevinjashton.com | wired.com | qz.com | clickz.com | cnbc.com | nest.com | proteusdigitalhealth.com | bigbelly.com | google.com | postscapes.com | inventors.about.com | ogu.edu.tr | mit.edu | beststuff.com | ambientdevices.com | iut.int | zdnet.com | cisco.com