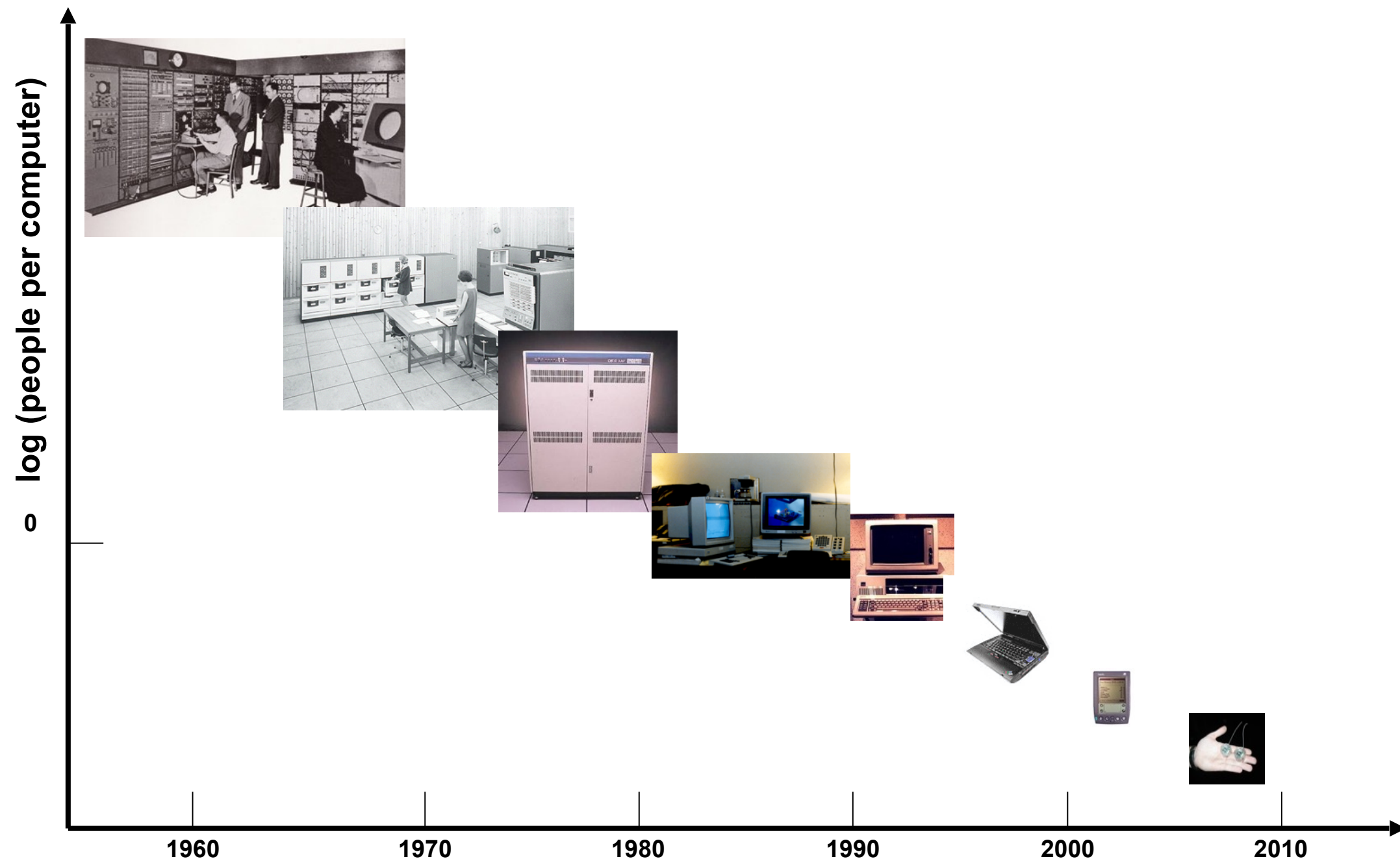
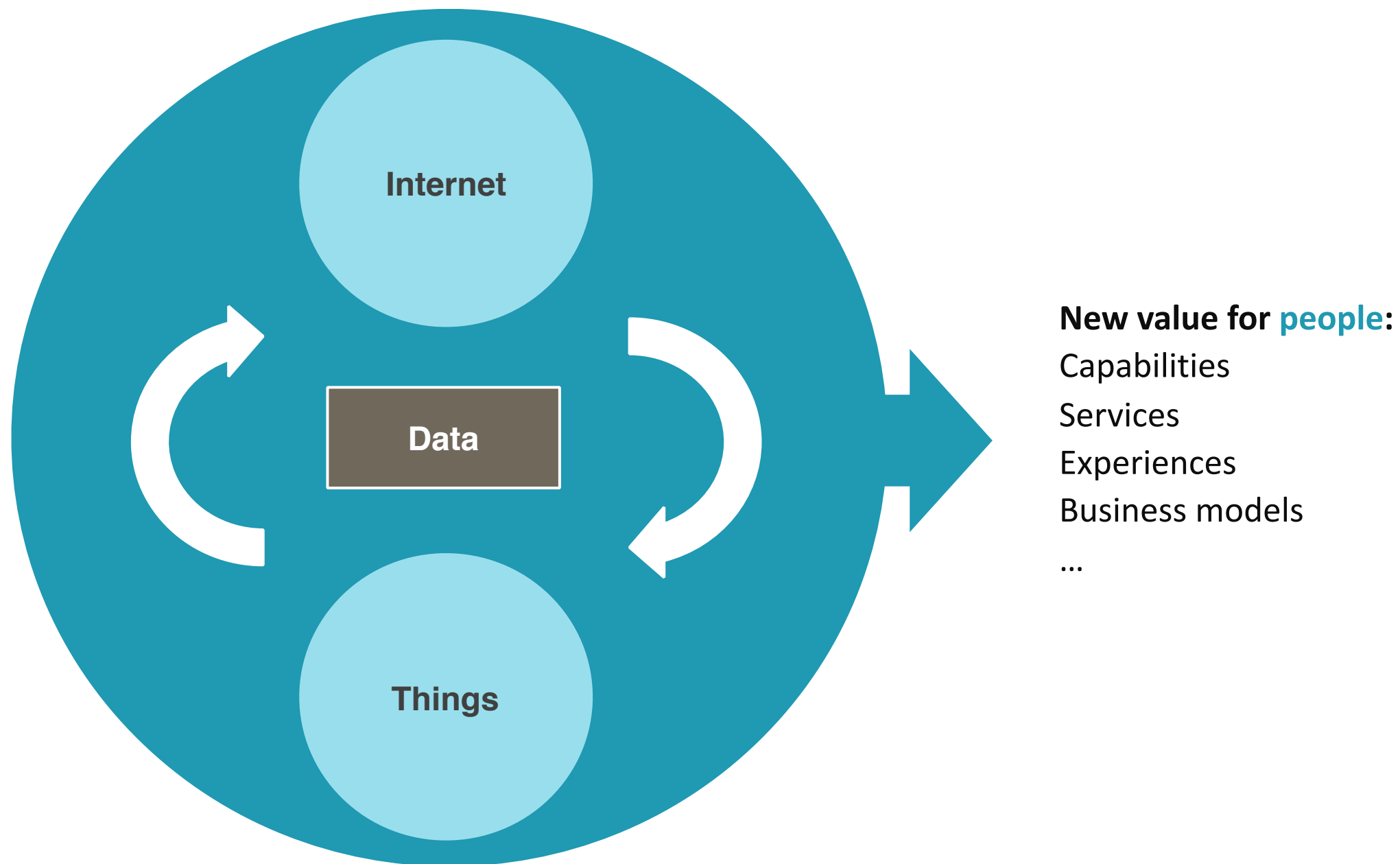


Visione



Definizione di IoT



Storia

“Machine to Machine” (M2M)
(~1970s +)



Internet of Things Beginnings



Carnegie Mellon Internet
Coke Machine (1982, 1990)



Internet Toaster
(1990)

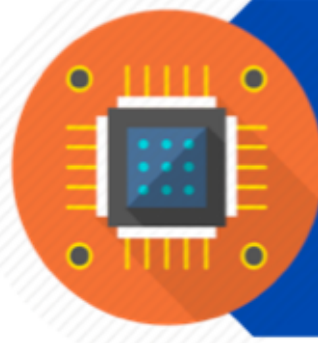


Trojan Room Coffee
Pot
(first webcam)
(1991)

Sviluppo



**UBIQUITOUS
CONNECTIVITY**



**COMPUTING
ECONOMICS**



**ADVANCES IN
DATA
ANALYTICS**



**WIDESPREAD
ADOPTION OF IP**

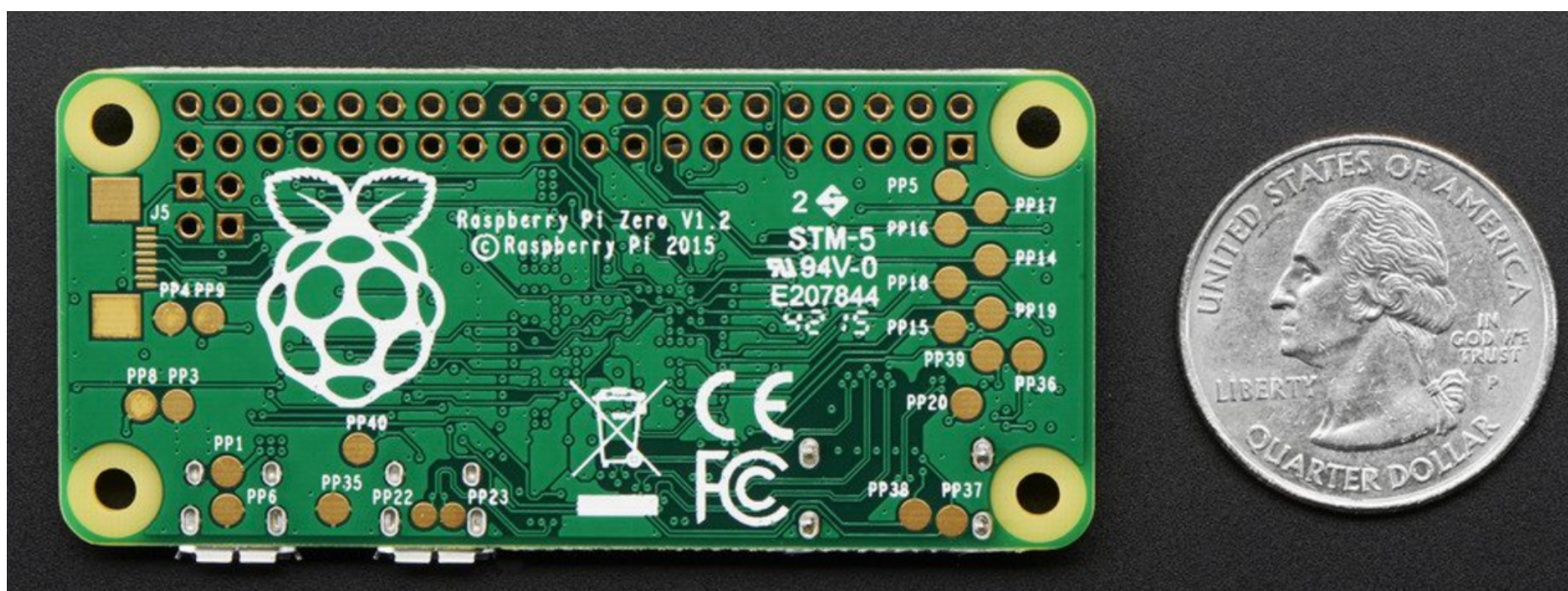


MINIATURIZATION



**RISE OF CLOUD
COMPUTING**

Raspberry Pi Zero



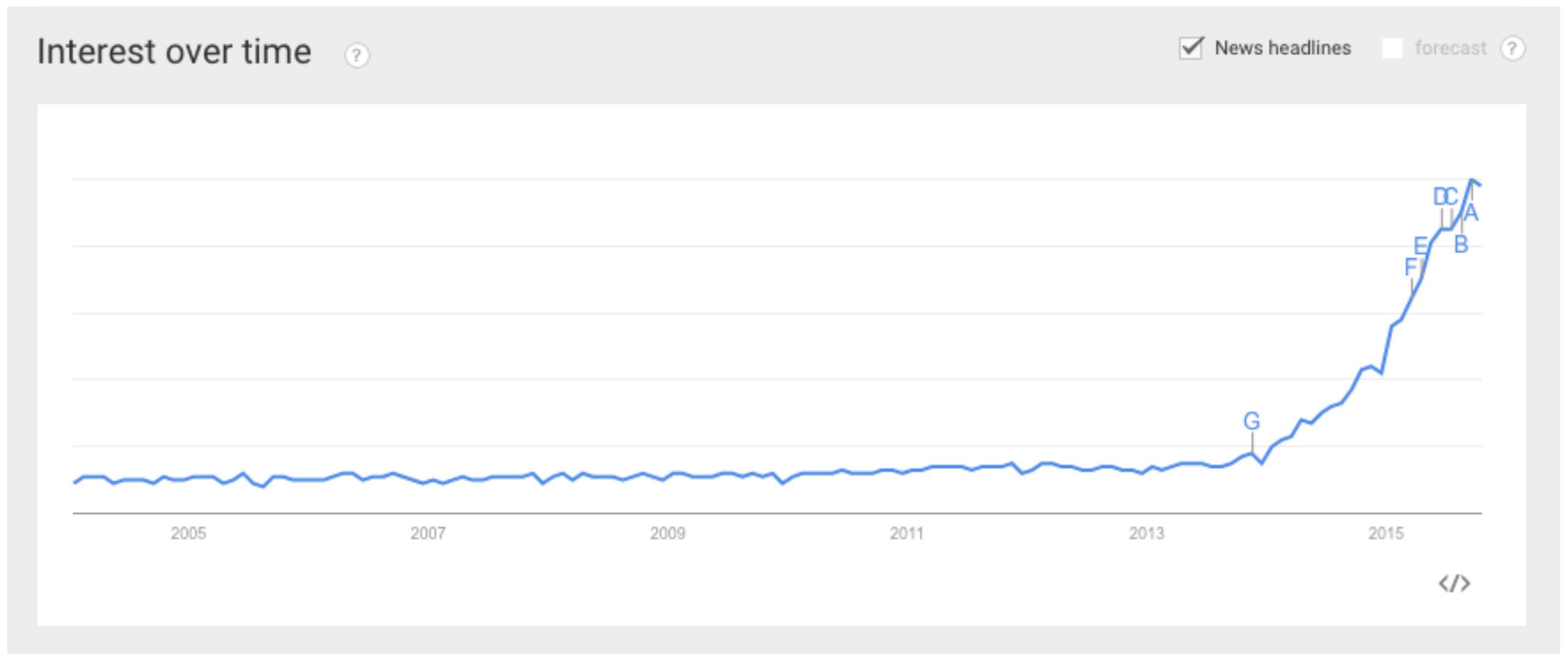
Olivetti M24



Manufacturer	Olivetti
Type	Personal computer
Release date	1983; 33 years ago
Discontinued	1987
Operating system	MS-DOS
CPU	Intel 8086 @ 8MHz
Memory	640 kB
Successor	Olivetti M240

- A Broadcom BCM2835 application processor
 - 1GHz ARM11 core (40% faster than Raspberry Pi 1)
- 512MB of LPDDR2 SDRAM
- A micro-SD card slot
- A mini-HDMI socket for 1080p60 video output
- Micro-USB sockets for data and power
- An unpopulated 40-pin GPIO header
 - Identical pinout to Model A+/B+/2B
- An unpopulated composite video header
- Our smallest ever form factor, at 65mm x 30mm x 5mm

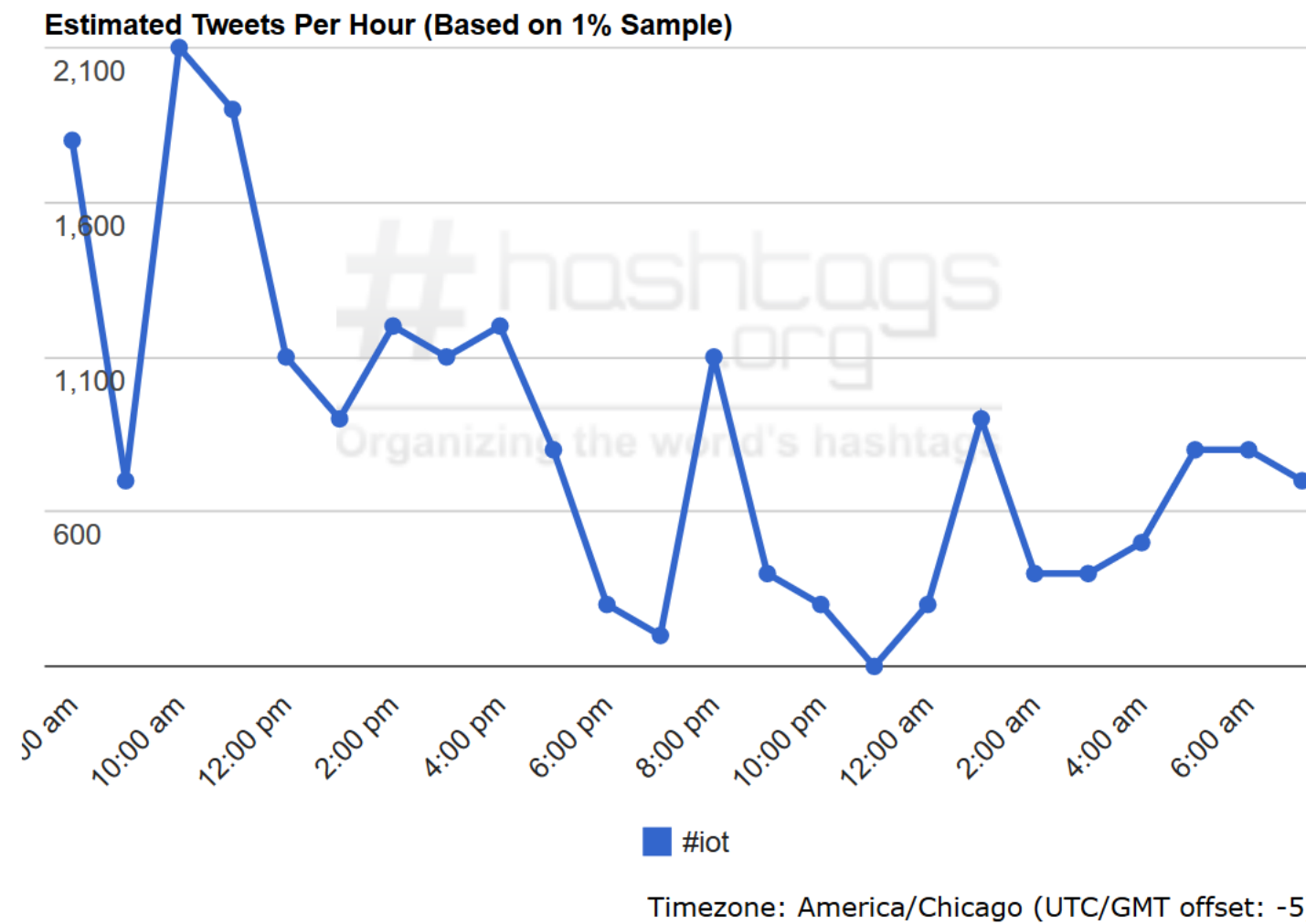
Google Trends for IoT



Twitter #IoT

#iot 24-Hour Trend Graph

[Upgrade Analytics](#)



Google News for IoT

Google's IoT platform to launch this month

Shilpa Phadnis, TNN | May 1, 2015, 12.41 AM IST

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ship.io/Mobile-Dev-Builds

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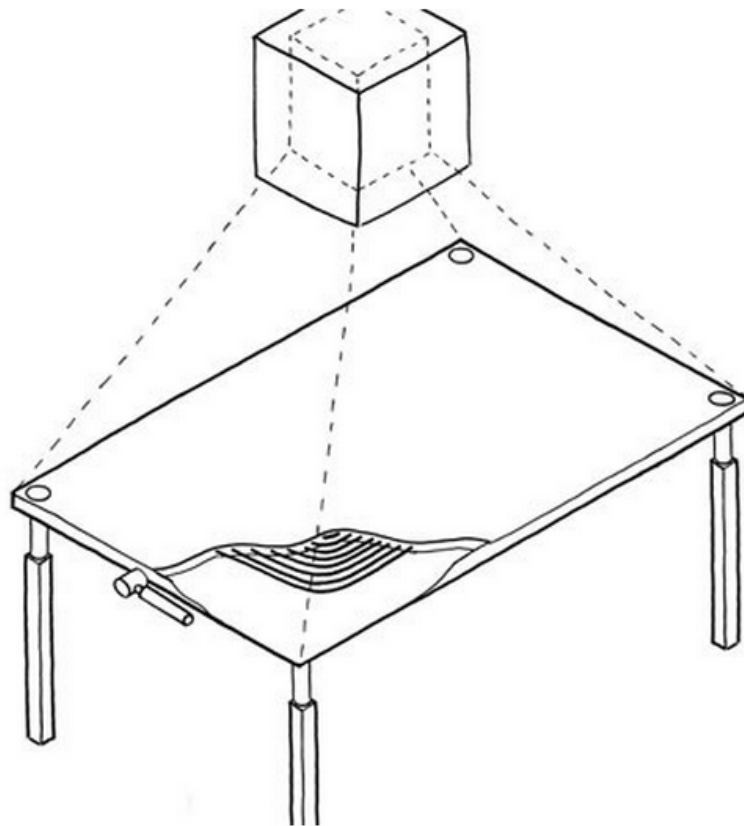


BENGALURU: Search giant Google will unveil a first-of-its-kind internet-of-things (IoT) platform in May, a move that could give a fillip to home automation efforts.

The platform will initially focus on connected kitchens, hooking up things like refrigerators, washing machines and toasters to talk to your phone and with each other.

Google News for IoT

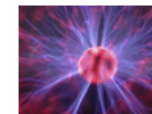
IKEA's Internet of Things plans imagine the networked kitchen



A camera and projector is positioned above the table and induction coils underneath the table surface. Networked together, they allow the system to recognize objects and their movement and to project a display. *Credit: IKEA*

IKEA is hoping new 'intuitive and unobtrusive' technology will augment the kitchens of the future.

RELATED



How wireless power and wireless charging works



Why is Apple avoiding wireless charging?



Review: Galaxy S6 and S6 Edge lead the Android pack

on IDG Answers ➔

How to remove TouchWiz from my smartphone Samsung Note 3?



Next-Generation Firewalls
for
DUMMIES

Learn to:
• Understand how firewalls work
• Identify security vulnerabilities and the solutions
• Implement effective application and network controls

by Lawrence C. Miller, CISP

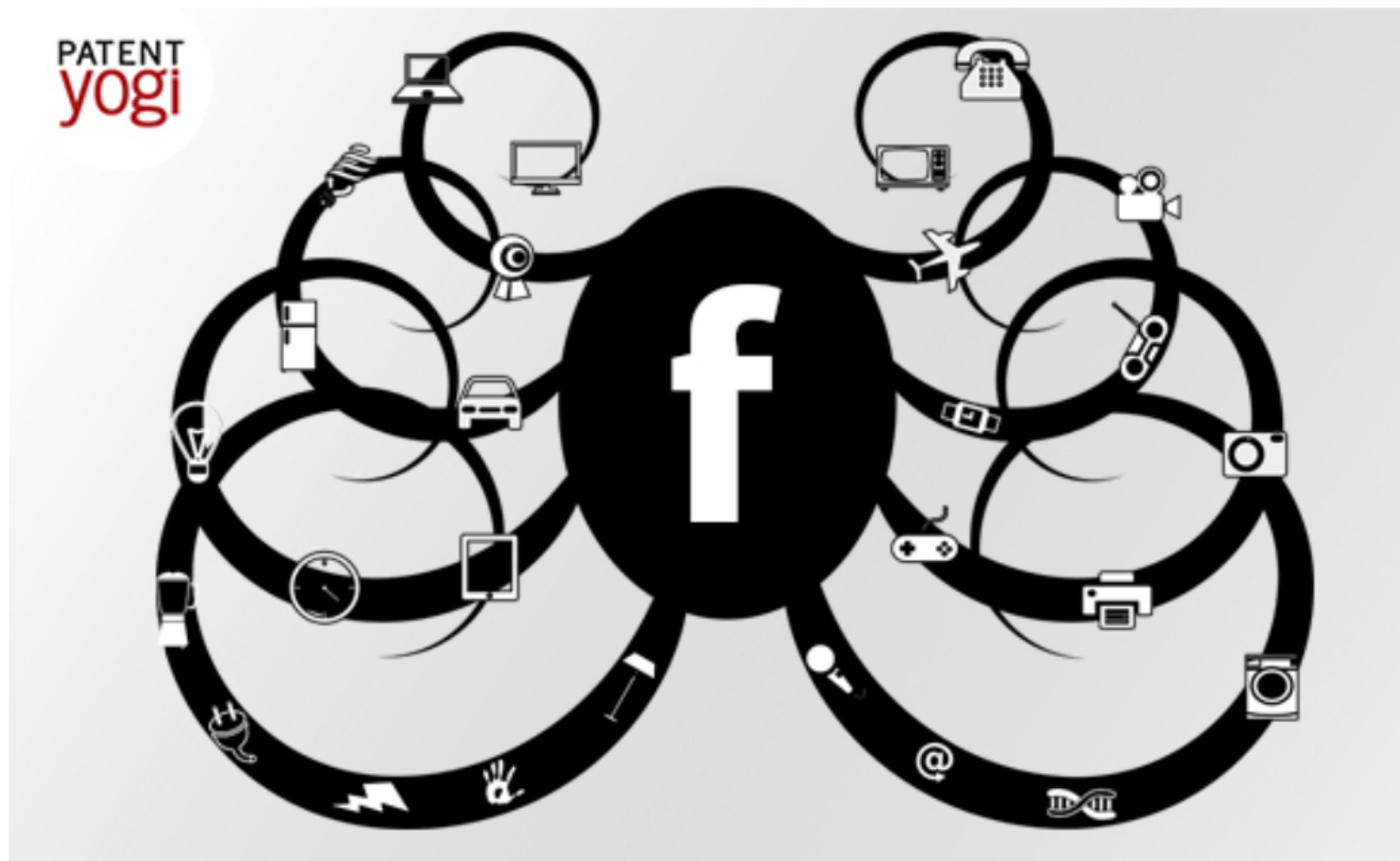
Next-Generation Firewalls

Download Your FREE eBook Today!

Google News for IoT

Facebook wants to be IoT command center

Patent Number – US 20160080389



Cosa e' IoT ?

Internet + **Things** + Data

Things

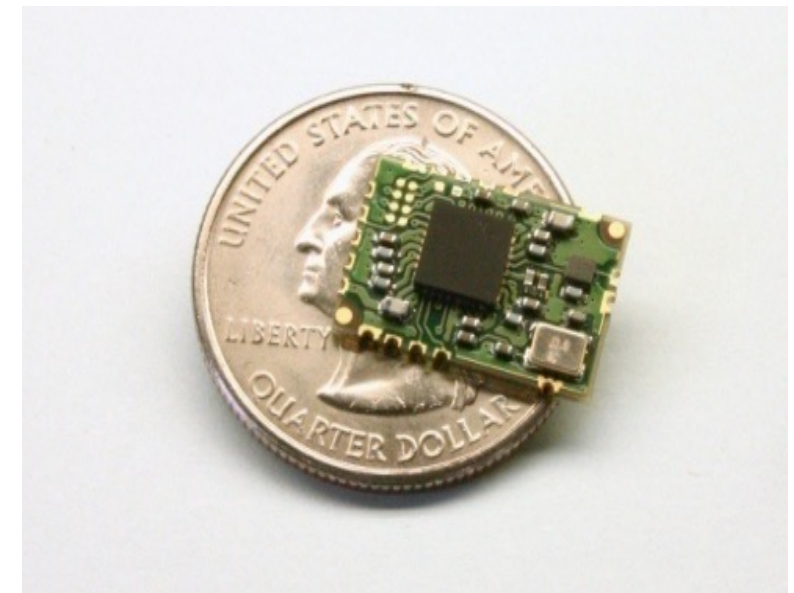
I nodi sono **limitati** in termini di:

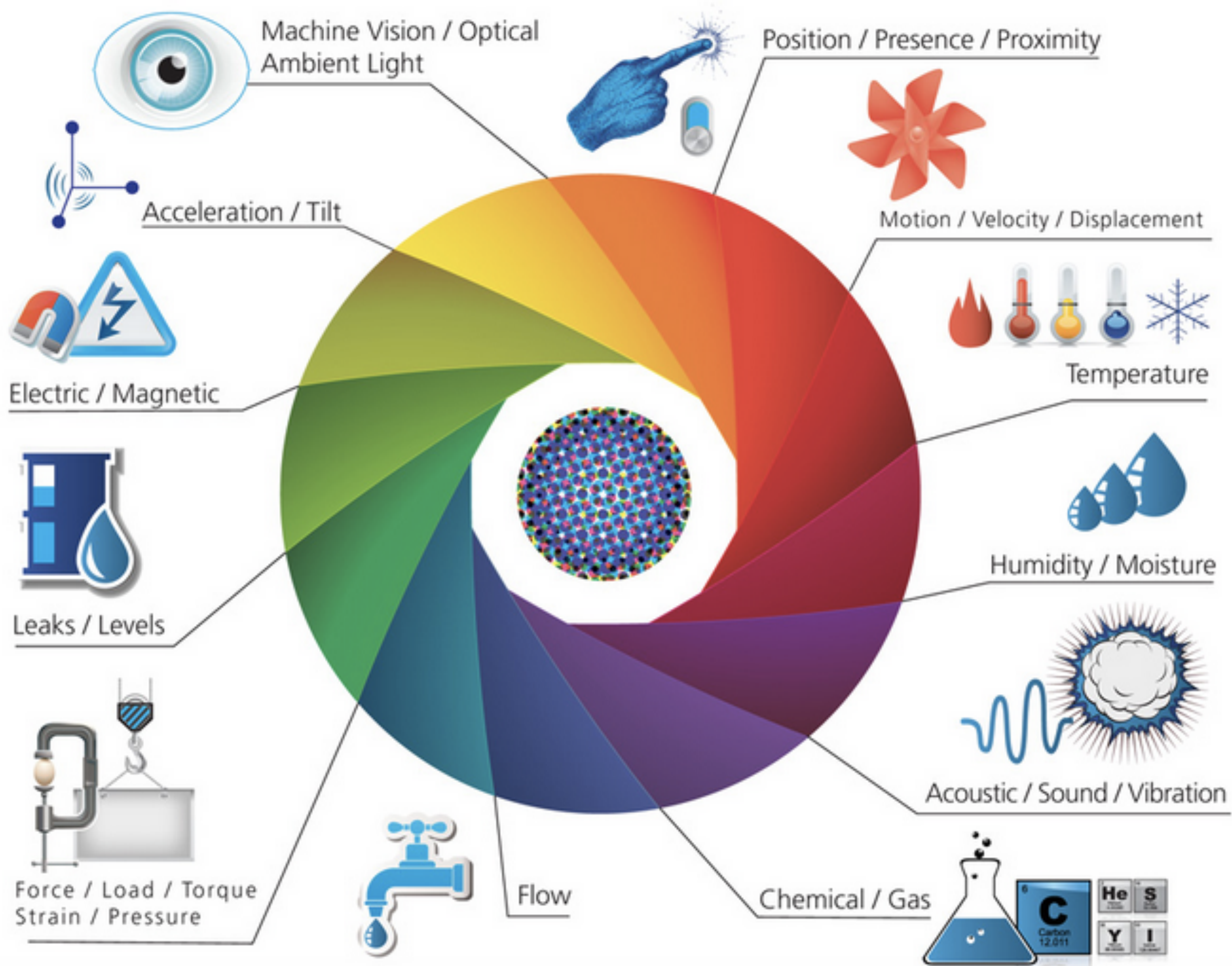
Dimensione

Potenza CPU

Memoria (kilobytes)

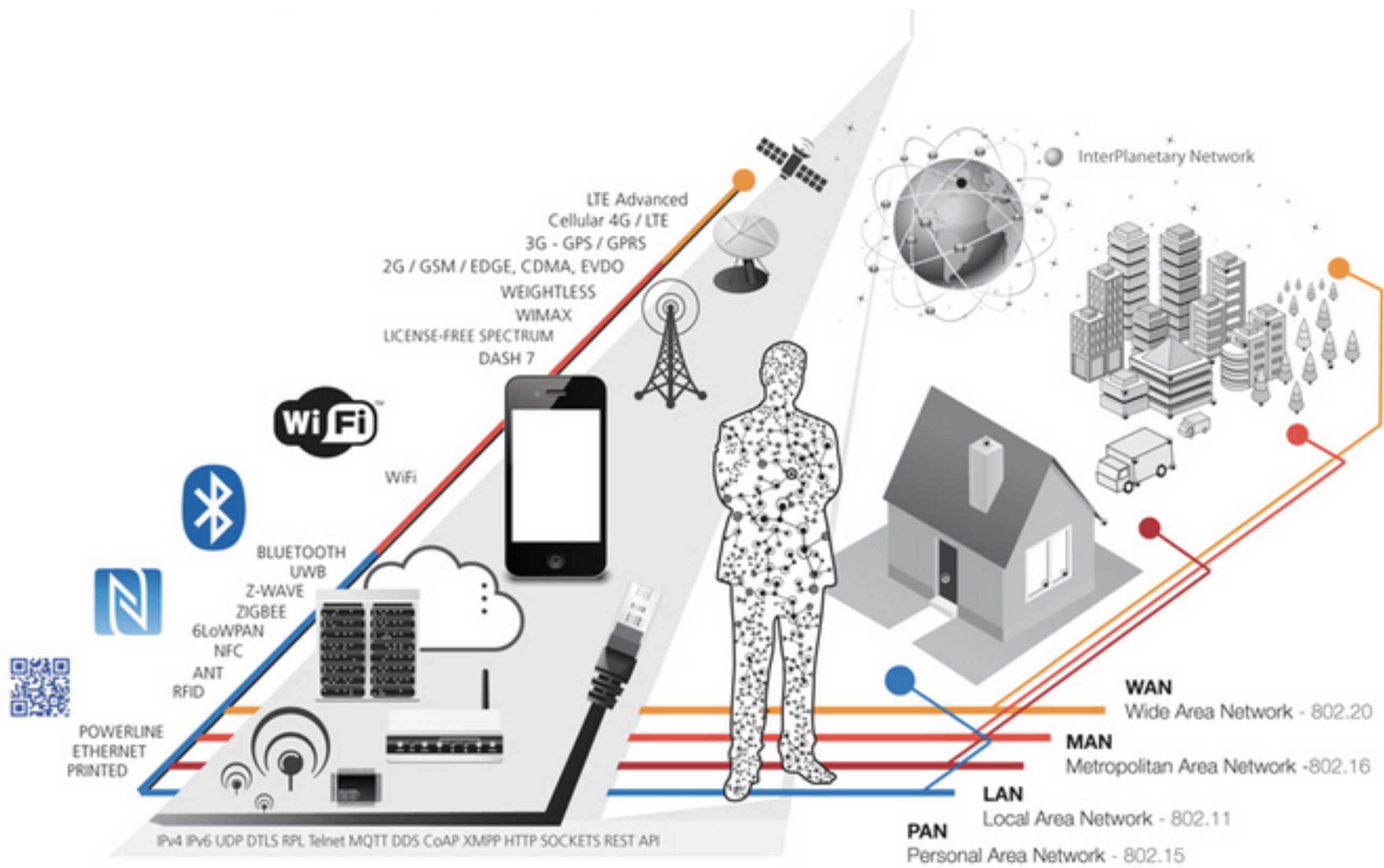
Velocità (250 KB/s)



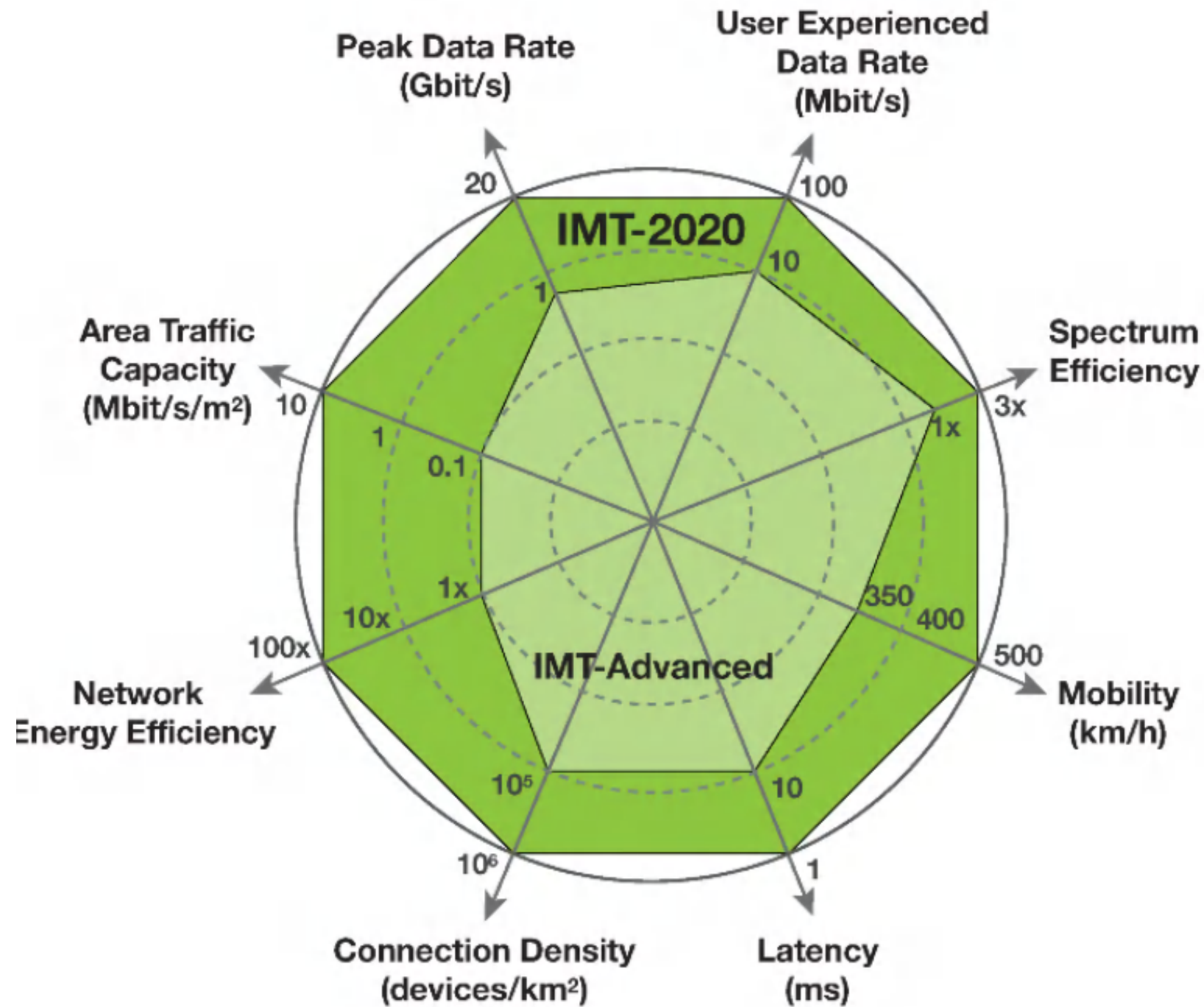


What is IoT ?



Internet + Things + Data



Tecnologie



Connected Devices



In 2014 nearly **2 billion** connected devices will be shipped

This number will grow to nearly **8 billion** devices for the year 2020

**Not including mobile phones*

Home (Consumer)

3,745.71 (Devices millions)

Transport (Mobility)

392.72 (Devices millions)

Body (Health)

360.03 (Devices millions)

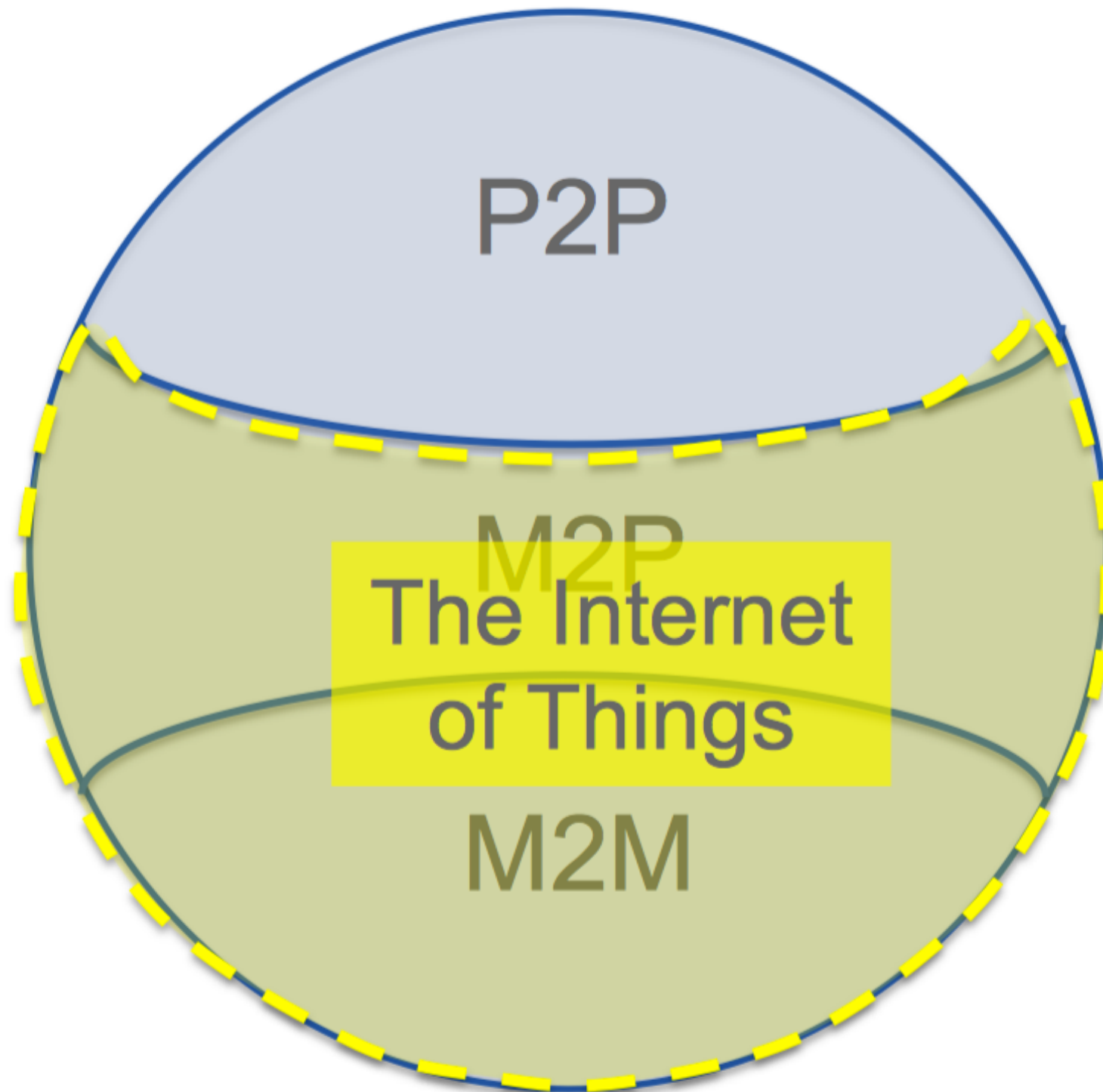
Buildings (Infrastructure)

1,726.59 (Devices millions)

Cities (Industry)

1,524.70 (Devices millions)

P2P, M2P e M2M



Esempi

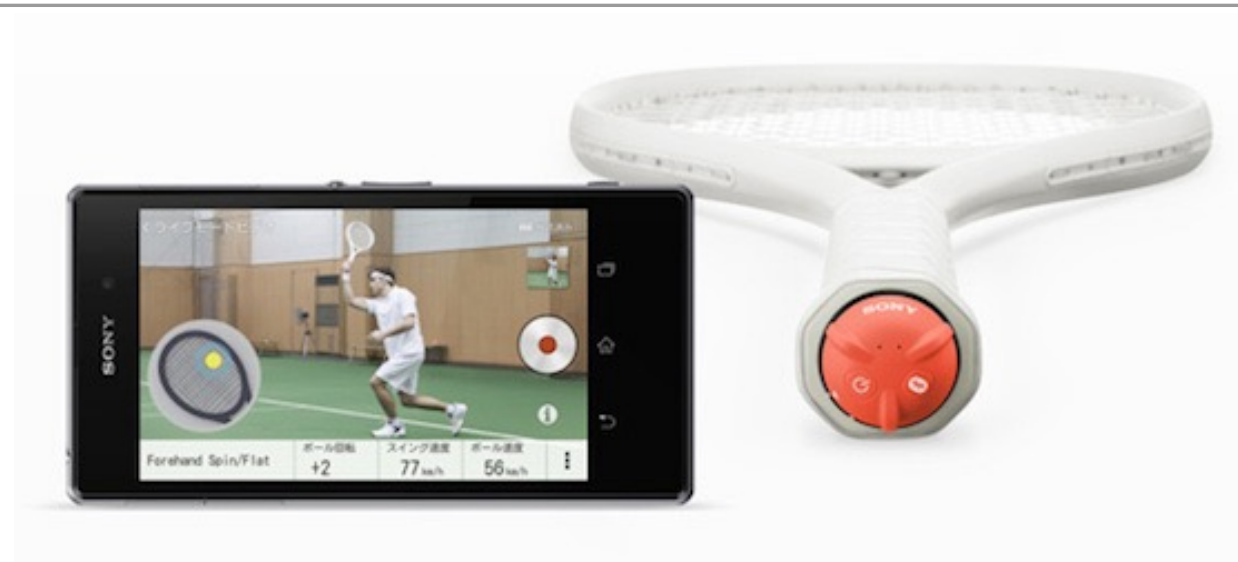
ambient™

Ambient Umbrella

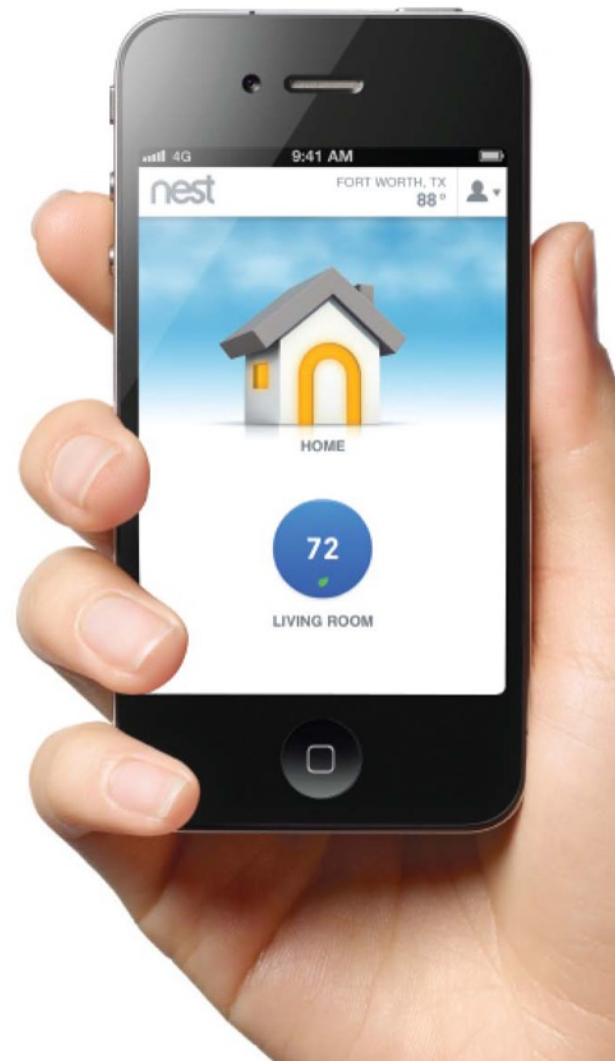
Glowing intelligence
lets you know that there's
rain in today's forecast.



Esempi



Esempi



Esempi

MyVessyl Cup

It can hold 13 ounces of liquid.
The battery takes 60 minutes to
fully charge and will last for 5-7
days. Also has wire-free charging.

<https://www.myvessyl.com/>



Egg Minder

THE SMART EGG TRAY



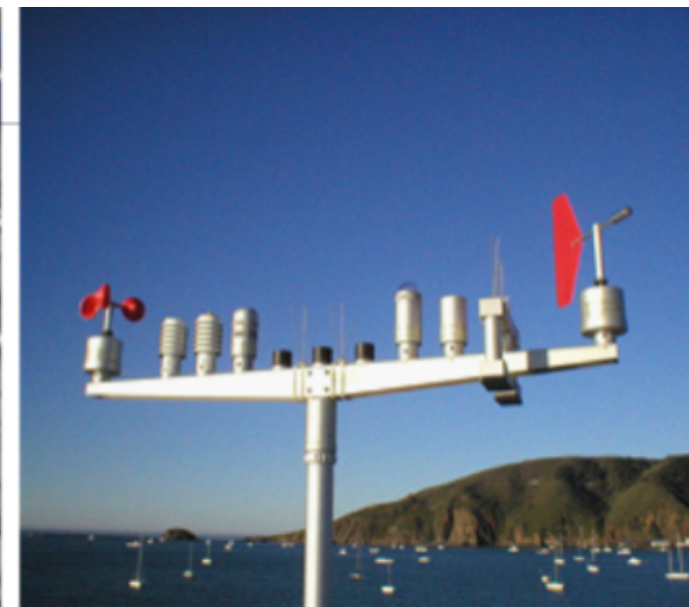
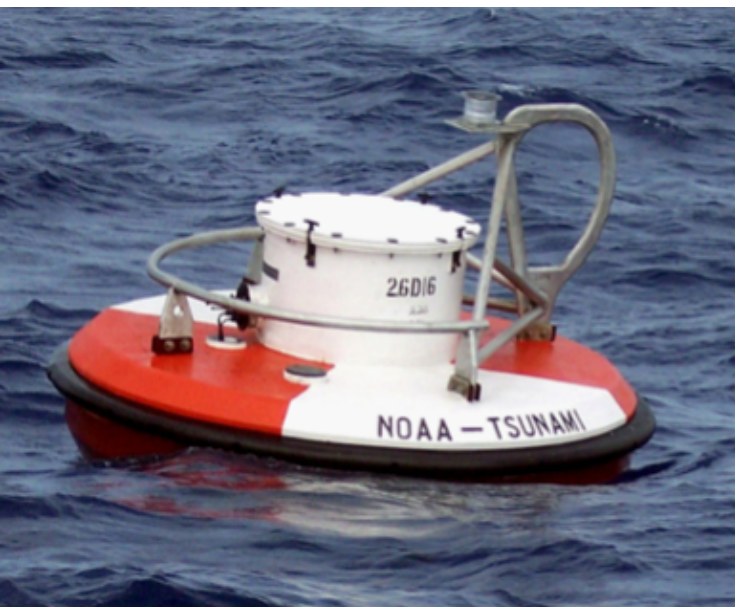
Esempi



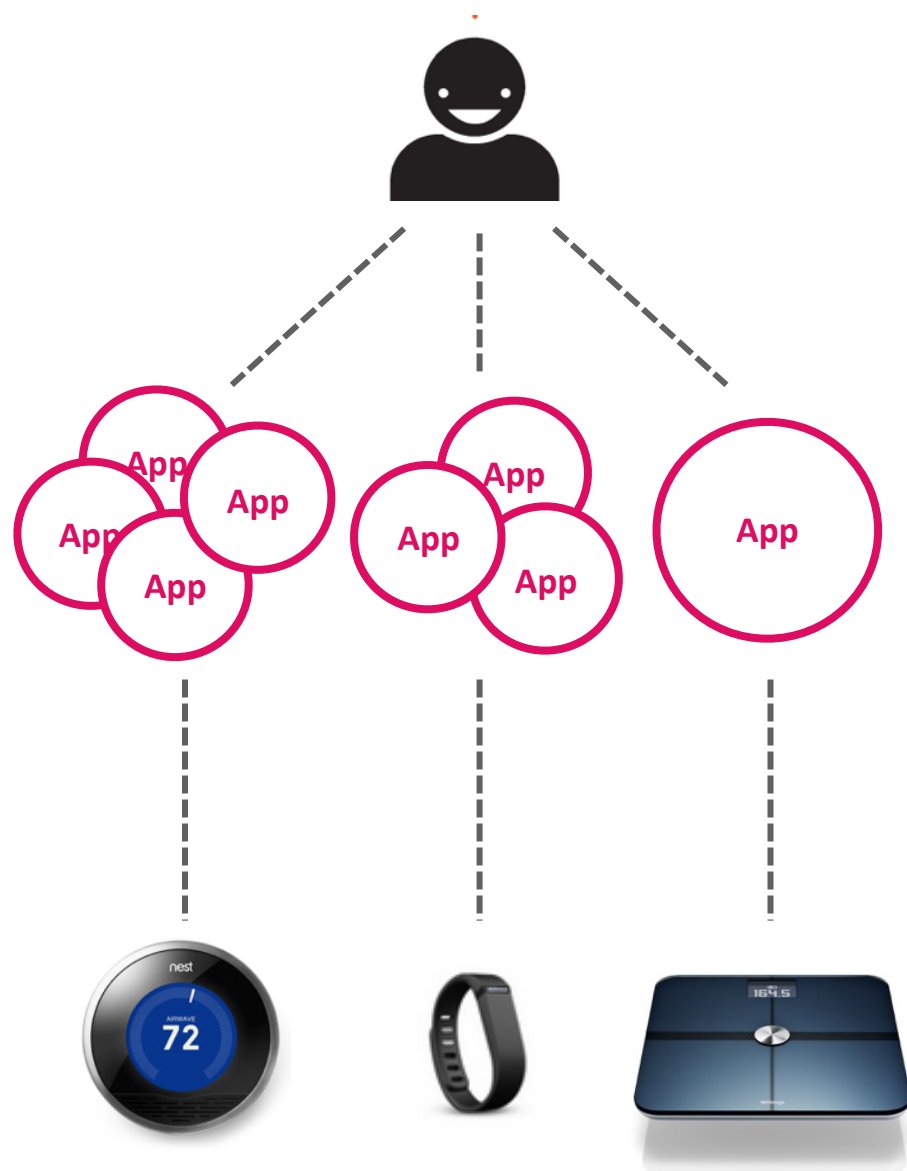
Esempi



Esempi

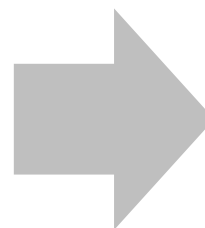


Esempi



Today: **Intranets of Things**

Connected devices



Tomorrow: **Internet of Things**

Interconnected devices

These **things** are starting to talk to each other and develop their own intelligence. Imagine a scenario where.....

This is communicated to your **alarm clock**, which allows you 5 extra minutes of sleep.



...your **meeting** was pushed back 45 minutes.



...your **car** knows it will need gas to make it to the train station. Fill-ups usually take 5 minutes.



...there was an accident on your **driving route** causing a 15 minute detour.



...your **train** is running 20 minutes behind schedule.



And signals your **car** to start in 5 minutes to melt the ice accumulated in overnight snow storms.



And signals your **coffee maker** to turn on 5 minutes late as well.

IoT e privacy

Apple Watch knows a heart attack when it sees one

BY [EVAN KILLHAM](#) • 4:45 PM, MARCH 14, 2016



NEWS



IoT e privacy

ALGORITHM
AUDIT: PENDULUM



DURATION: 15 S

FITBIT

◎ STEPCOUNT: 71

◎ DISTANCE: 0.05KM

◎ CALORIES: 2

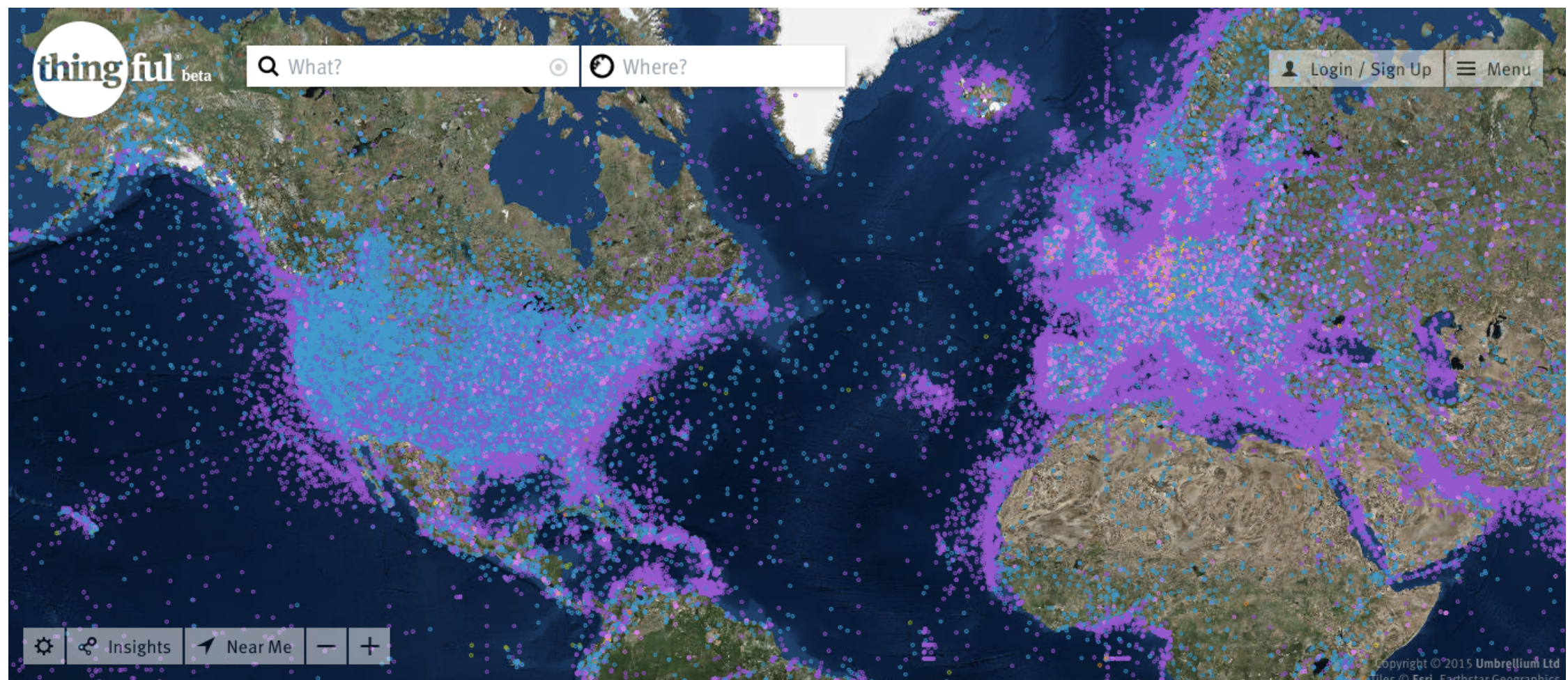
JAWBONE

◎ STEPCOUNT: 51

◎ DISTANCE: 0.04KM

◎ CALORIES: 4

IoT e sviluppo



IoT e sviluppo



Grazie!