Getting to know the Internet of Things

BRIAN SUDA

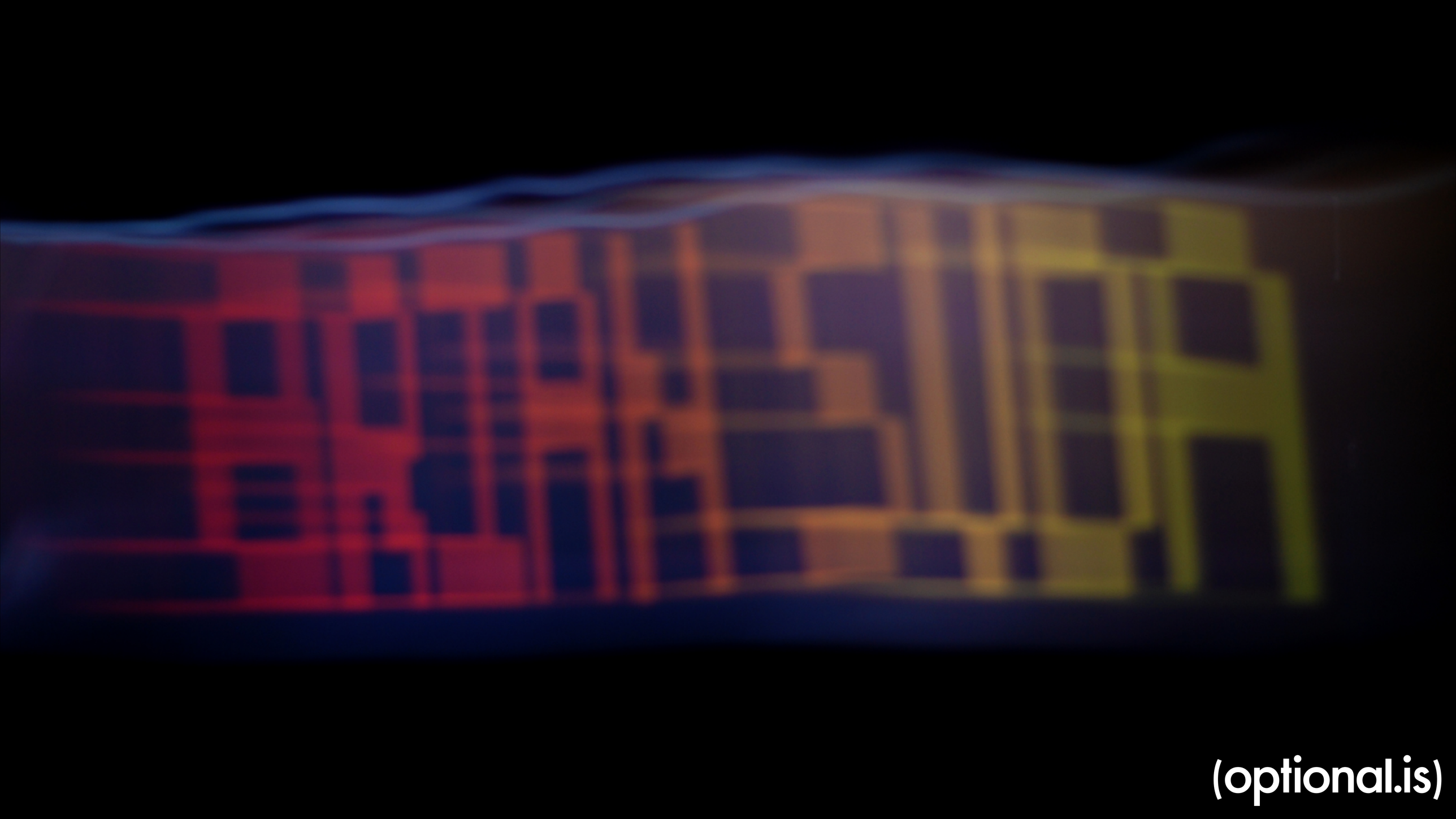
(optional.is)

The term “Internet of Things” was coined by Kevin Ashton executive director of the Auto-ID Center:

"I could be wrong, but I'm fairly sure the phrase "Internet of Things" started life as the title of a presentation I made at Procter & Gamble (P&G) in 1999. Linking the new idea of RFID in P&G's supply chain to the then-red-hot topic of the Internet was more than just a good way to get executive attention. It summed up an important insight which is still often misunderstood."

http://postscapes.com/internet-of-things-history

(optional.is)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Spimes: Happy Birthday

http://optional.is/required/tag/spimes/

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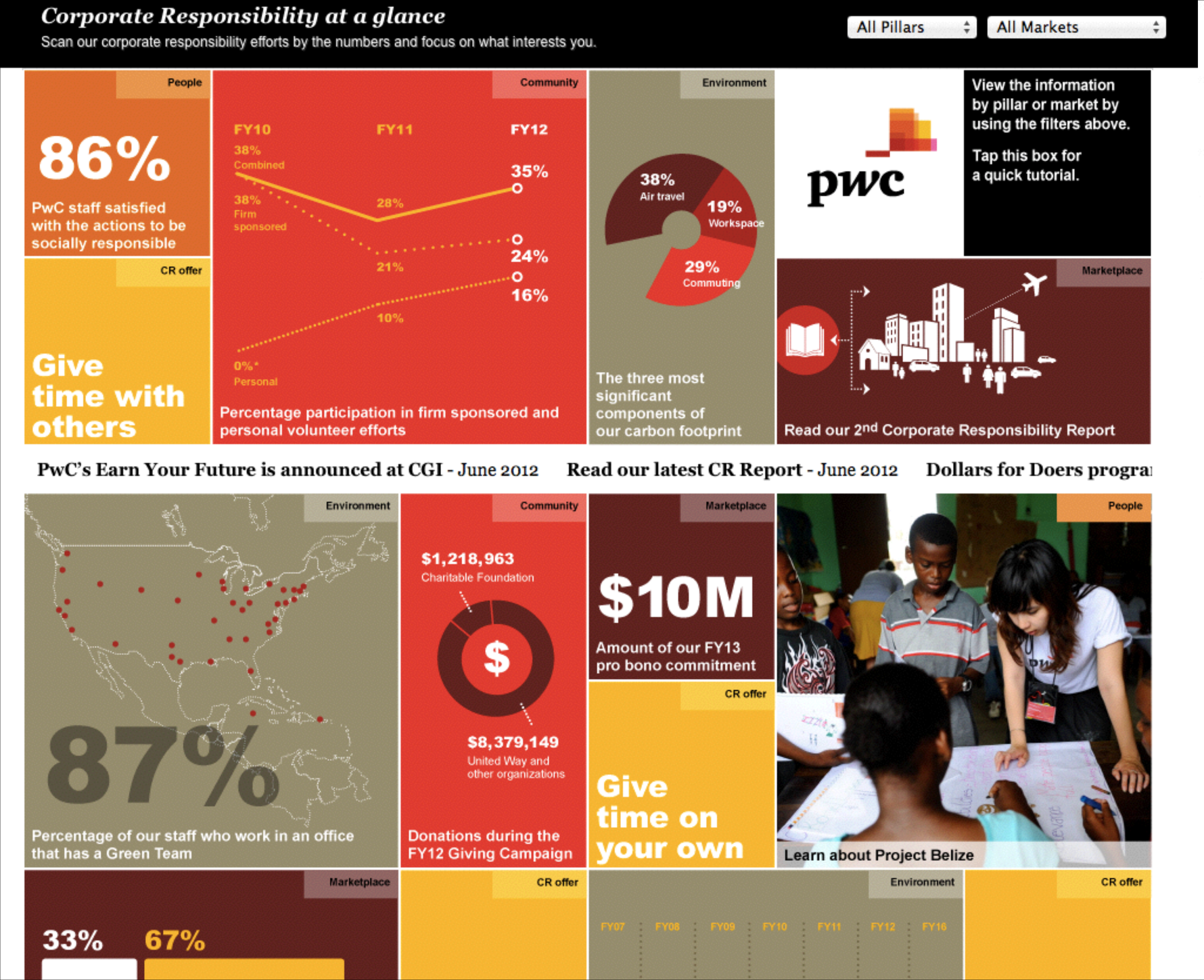

Corporate Responsibility at a glance
Scan our corporate responsibility efforts by the numbers and focus on what interests you.
All Pillars
All Markets
People
86%
PwC staff satisfied with the actions to be socially responsible
CR offer
Give time with others
Community
FY10
FY11
FY12
38% Combined
38% Firm sponsored
0%* Personal
28%
21%
10%
35%
24%
16%
Percentage participation in firm sponsored and personal volunteer efforts
Environment
38% Air travel
19% Workspace
29% Commuting
The three most significant components of our carbon footprint
pwc
View the information by pillar or market by using the filters above.
Tap this box for a quick tutorial.
Marketplace
Read our 2nd Corporate Responsibility Report
PwC's Earn Your Future is announced at CGI - June 2012
Read our latest CR Report - June 2012
Dollars for Doers progra
Environment
87%
Percentage of our staff who work in an office that has a Green Team
Community
$1,218,963
Charitable Foundation
$
$8,379,149
United Way and other organizations
Donations during the FY12 Giving Campaign
Marketplace
$10M
Amount of our FY13 pro bono commitment
CR offer
Give time on your own
People
Learn about Project Belize
Marketplace
33%
67%
CR offer
Environment
FY07
FY08
FY09
FY10
FY11
FY12
FY16
CR offer

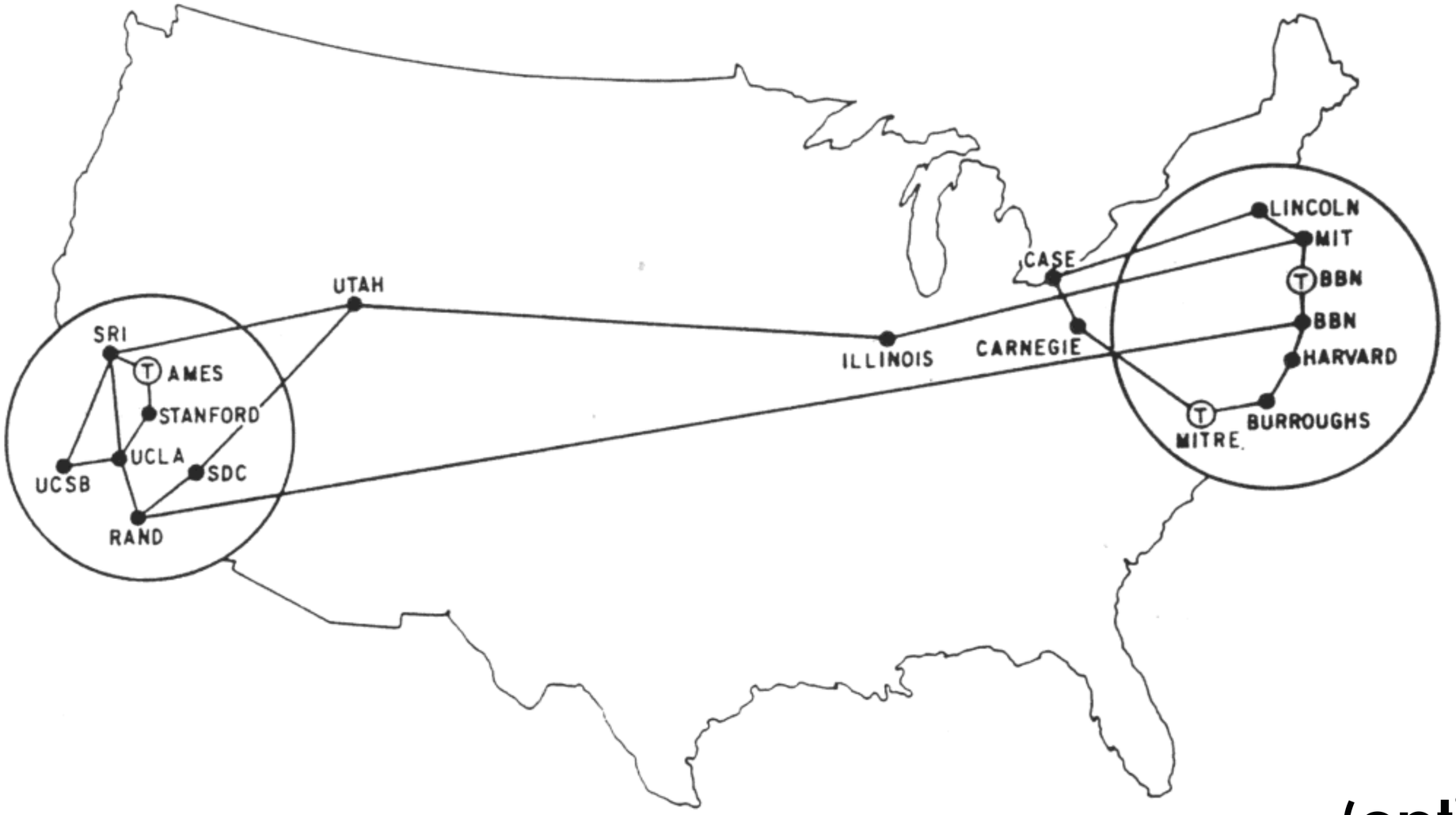
LIVING ROOM

PHILIPS
I WANT / JE VEUX
hue
PERSONAL WIRELESS LIGHTING

Quick History Lesson

(optional.is)

The first message on the ARPANET was sent by UCLA student programmer Charley Kline, at 10:30 pm on 29 October 1969, from Boelter Hall 3420.



MAP 4 September 1971

(optional.is)

ATM, first IoT?

The first modern ATM was an IBM 2984 at Lloyd Bank, Brentwood High Street, Essex, England in December 1972.

(optional.is)

A horse by another name is still a horse

Smart Sensors
Smart Dust
Connected Devices
Smart Devices
Ambient Devices
Calm Devices

Ubiquitous Computing
Wearable Technology
Portable Computers
Tablets, Phablets
Pads, Pods
Boards, Slates

(optional.is)

Getting Started

(optional.is)

WeMo

IFTTT

Recipe

if this then that

Trigger

Action

IFTTT is pronounced like “Lift” without the “L.”

DIY in 3 Parts

Internet, Hardware, Software

(optional.is)

Internet is easy

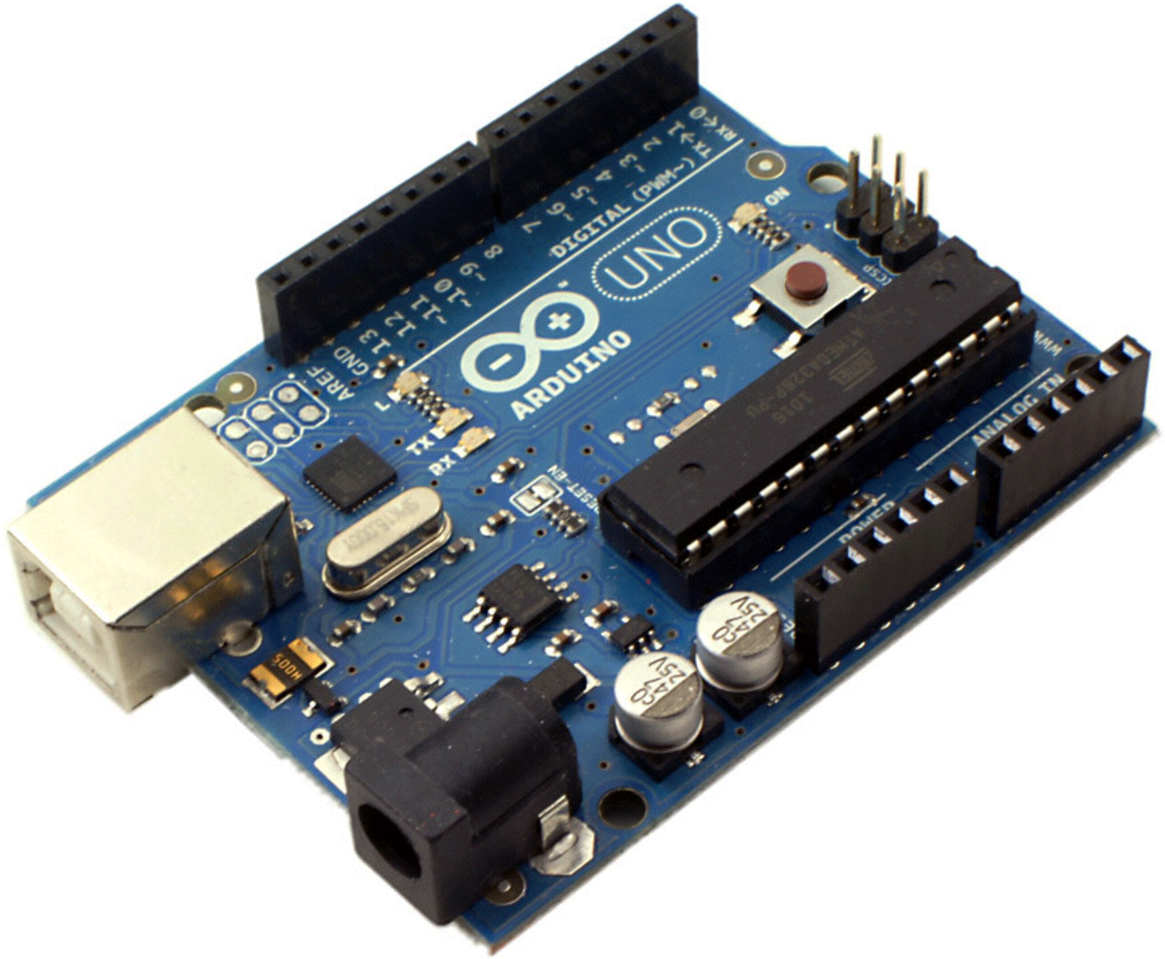
(optional.is)

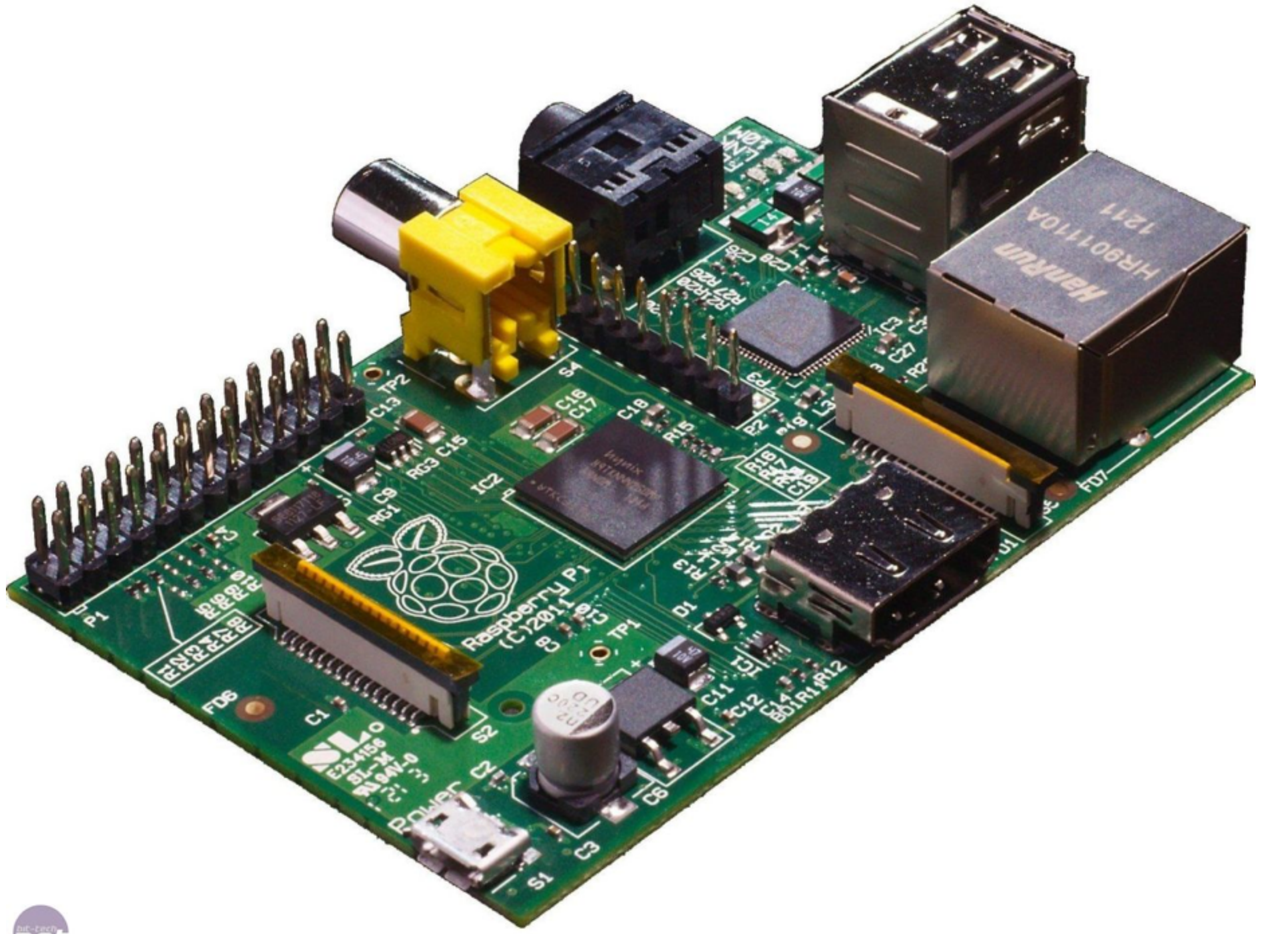
Hardware

Buy or Build?

(optional.is)

Arduino/Raspberry Pi





(optional.is)

Sights & Sounds

Sensors, wifi, cellular, bluetooth, RFID

(optional.is)

Software

Clouds are optional

(optional.is)

Big Brain & Little Brain

(optional.is)

Scott Jenson

http://jenson.org

Smart Toaster

People just love to make fun of Smart Toaster. My favorite was the tweet, “I don’t think my smart toaster needs apps”.

You can’t evaluate tomorrow’s concepts by yesterday’s tasks! Of course a smart toaster doesn’t need apps. A horse doesn’t need wheels either. We just need to look at what smart means in a more nuanced way. … If I can unpack what it means to be smart, so that even a lowly toaster starts to make sense, we’ll be thinking about the IoT in a much broader context.

1. Discovery

(optional.is)

2. Control

1. Discovery

(optional.is)

3. Coördination

2. Control

1. Discovery

(optional.is)

3 Categories of devices

http://archive.dconstruct.org/2012/beyondmobile

https://vimeo.com/61862454

(optional.is)

1. Bears

(optional.is)

2. Bats

1. Bears

(optional.is)

3. Bees

2. Bats

1. Bears

(optional.is)

Examples

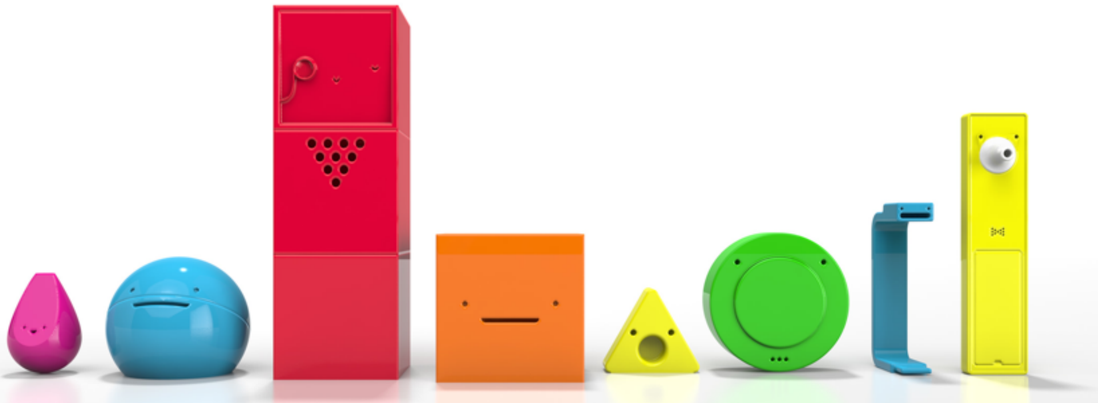
(optional.is)

http://littleprinter.com

http://www.thetileapp.com

https://nest.com

Sammy Screamer
Motion Alarm



http://bleepbleeps.com

Hello
birdi

http://www.getbirdi.com

https://sen.se/store/mother/

http://bounceimaging.com

Worries

(optional.is)

Sorry... we're
CLOSED

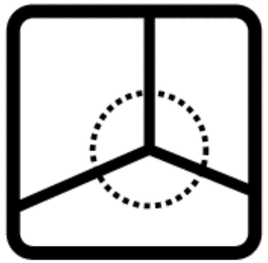
Everyware iconography

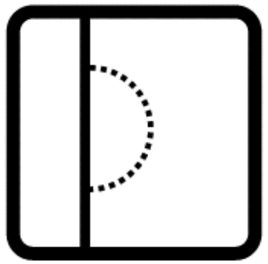
"information processing dissolving in behavior"

"network dead zone"

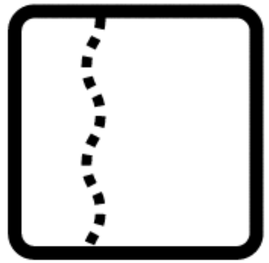
"media surface"

"augmented-reality information is available in this location"



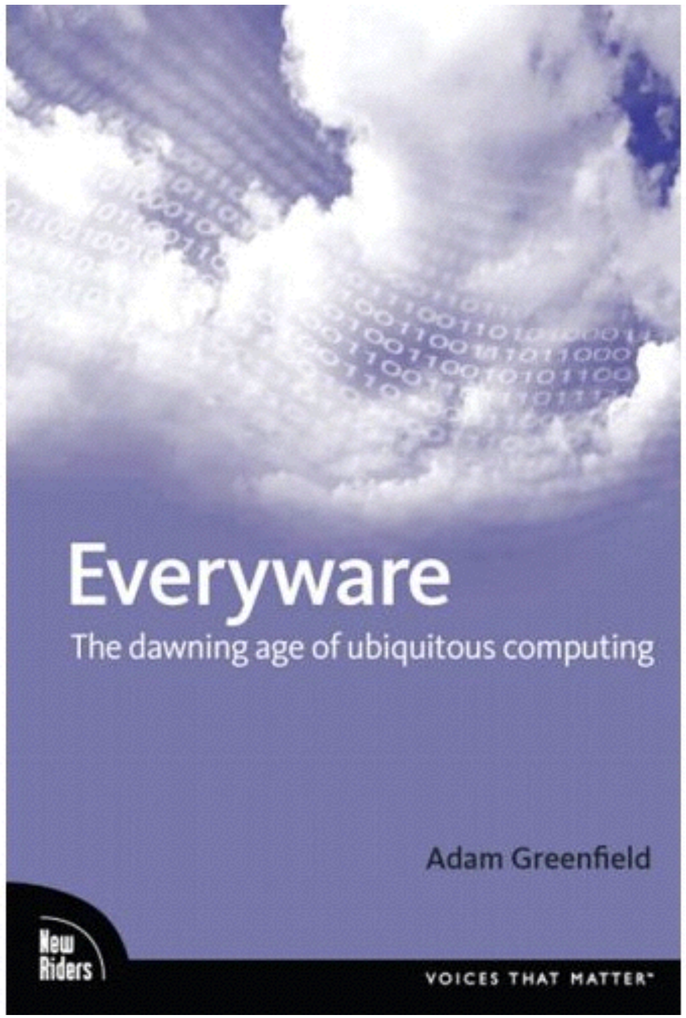


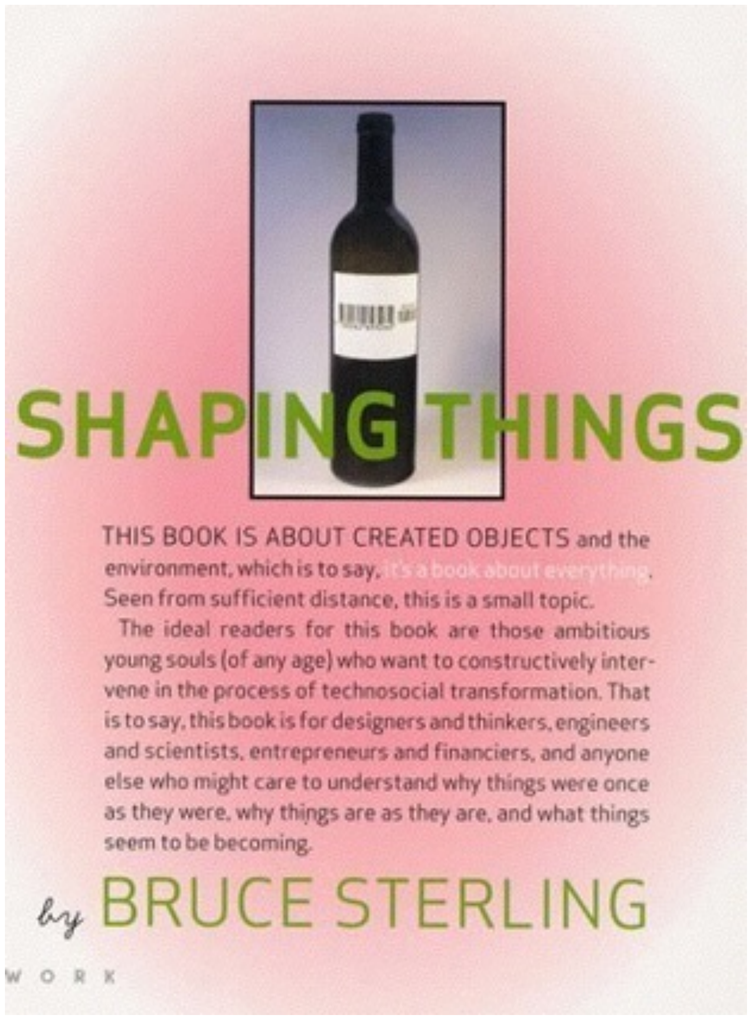
"warning: sensor field"



"this object has invisible qualities"

Book Recommendations





Thanks

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868.0795

(optional.is)