



Open IS Real.

23 Maggio 2014 – Eclipse Day Florence

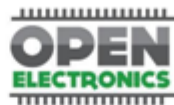
me



Founder



Blogger and Editor



Core Member



Program Design Fellow



Chairmanships



International Branches



Contributor

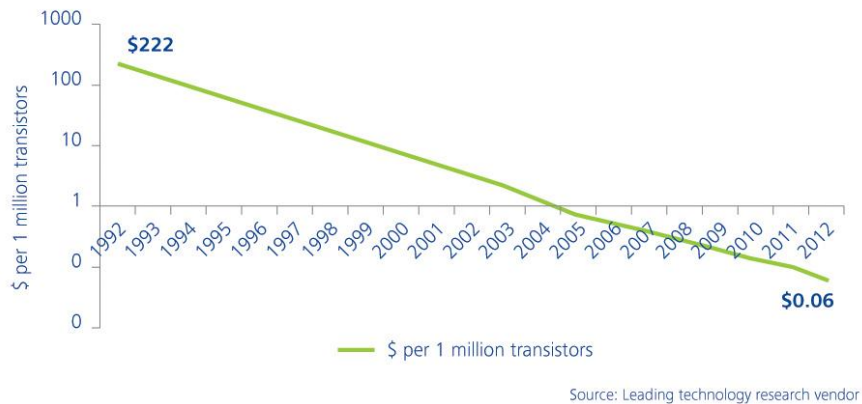


“The core technology components are continuing to improve in price/performance at accelerating rates and this exponential pace will not slow down in the foreseeable future.”

John Hagel

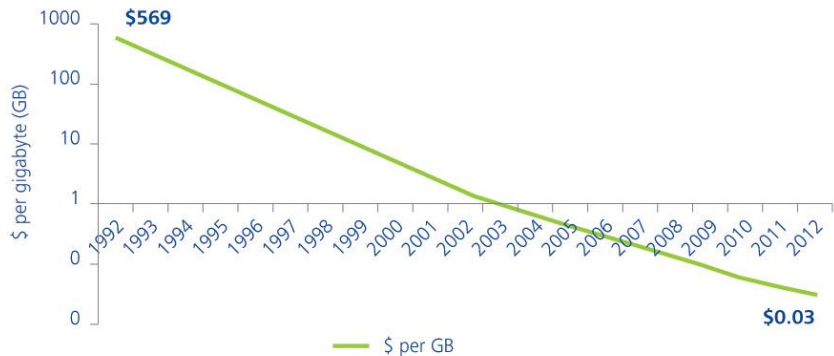


Figure 1. Computing cost-performance (1992–2012)



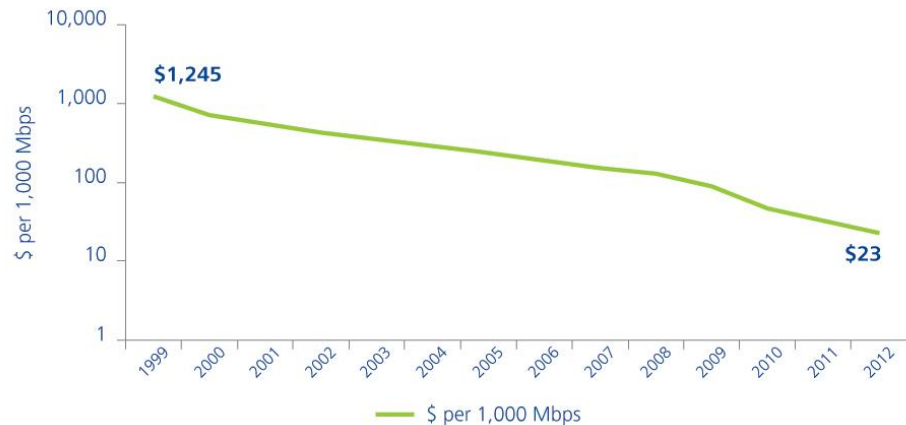
Graphic: Deloitte University Press | DUPress.com

Figure 2. Storage cost-performance (1992–2012)



Graphic: Deloitte University Press | DUPress.com

Figure 3. Bandwidth cost-performance (1999–2012)



Graphic: Deloitte University Press | DUPress.com

Componentization

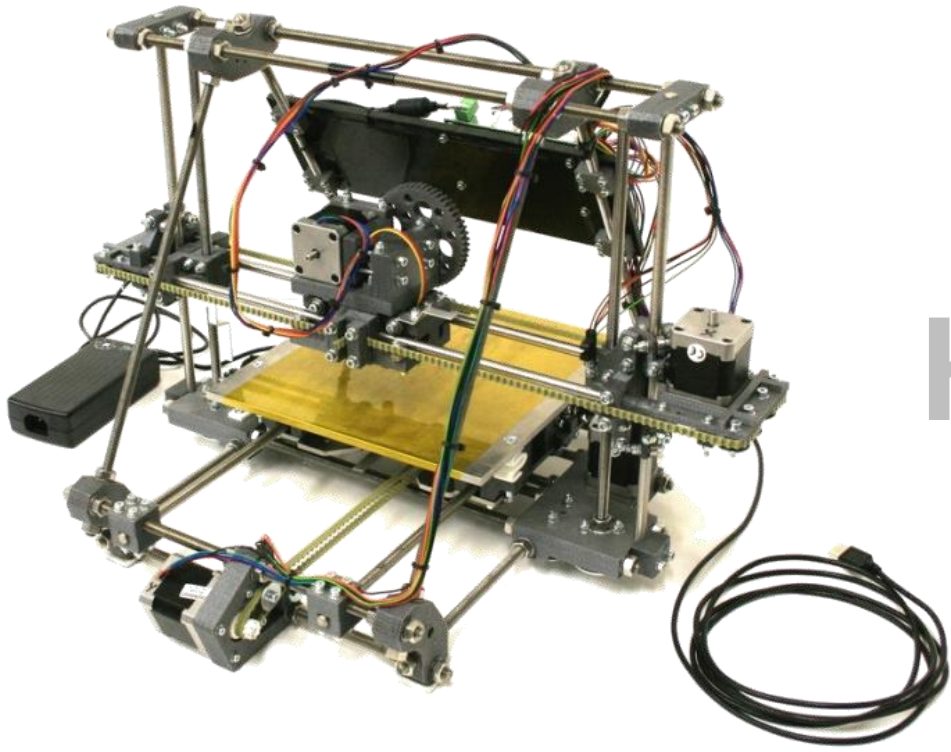
* breaking down into cost competitive and interchangeable pieces.





Marc Andreessen

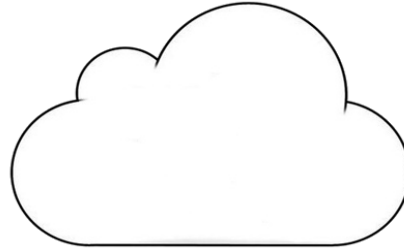
“Software
is eating
the world”



Hardware?



Open &
Free
platforms



Everything
As a Service



Ultra
Pervasive
computing



Large social
interactions &
collaboration

Costs go down



Global Cooperation

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2006

2007

2008

2009

2010

2011

2012

RepRap Family Tree

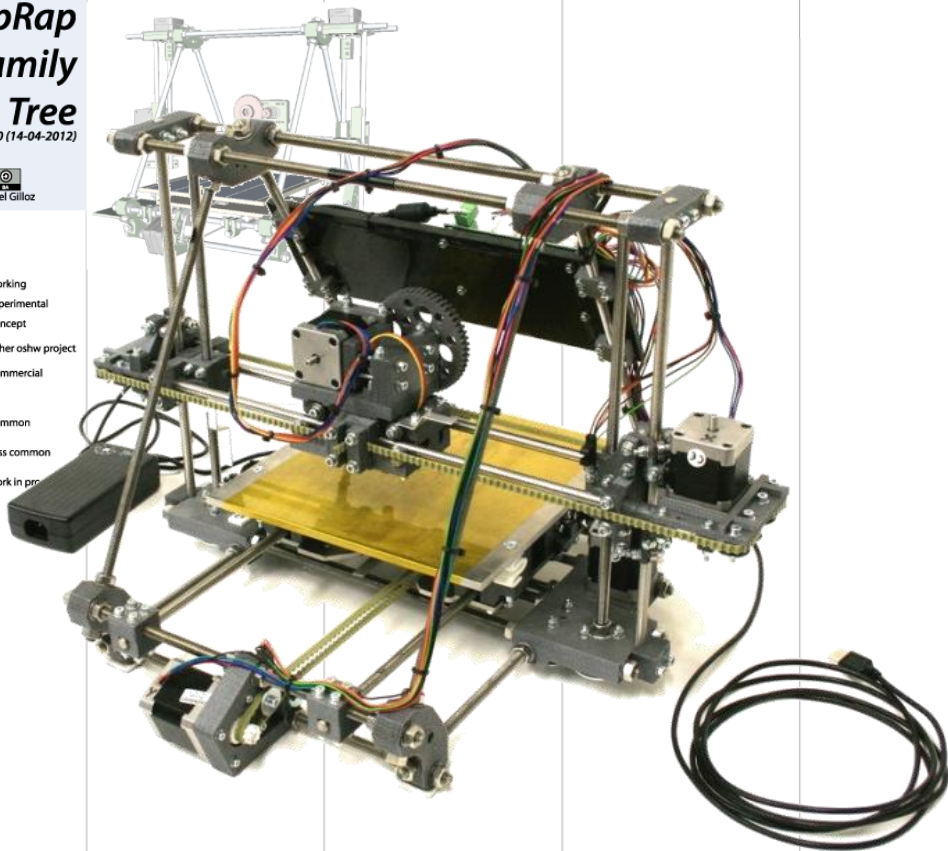
v4.0 (14-04-2012)



Emmanuel Gilloz

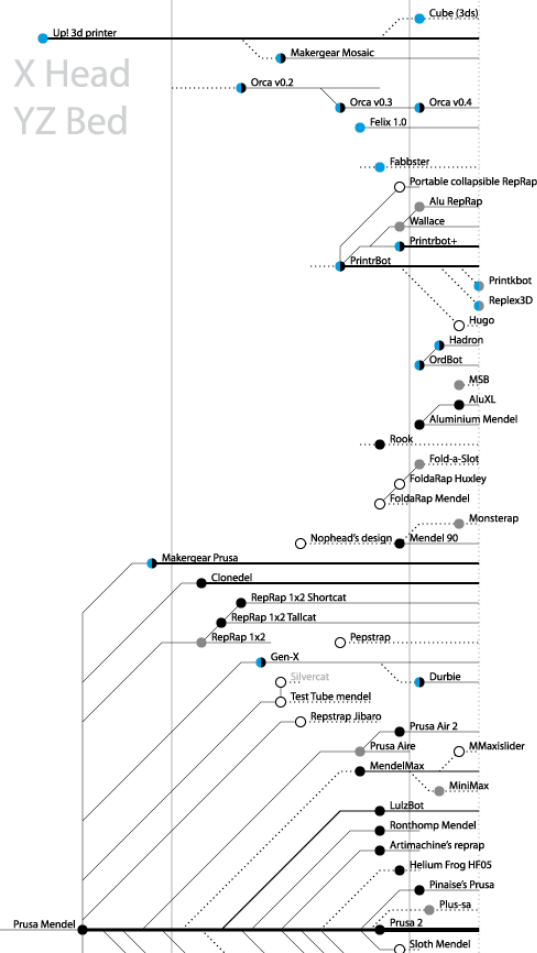
- Working
- Experimental
- Concept
- Other oshw project
- Commercial

- Common
- - - Less common
- ⋯ Work in progress



CARTESIAN

X Head YZ Bed



2006

2007

2008

2009

2010

2011

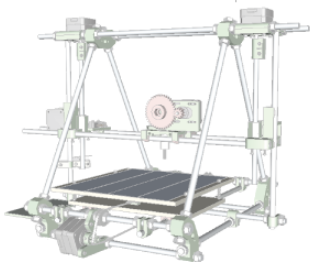
2012

RepRap Family Tree

v4.0 (14-04-2012)



Emmanuel Gilloz

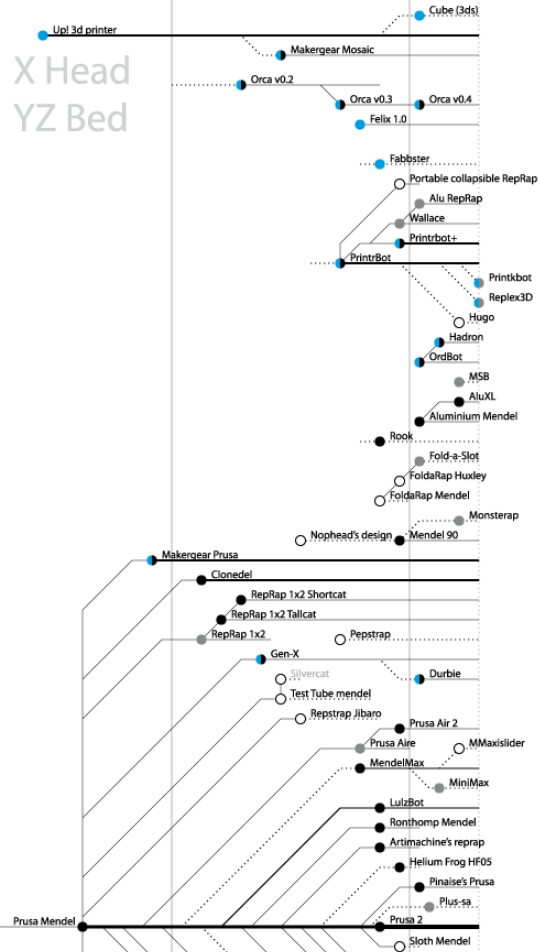


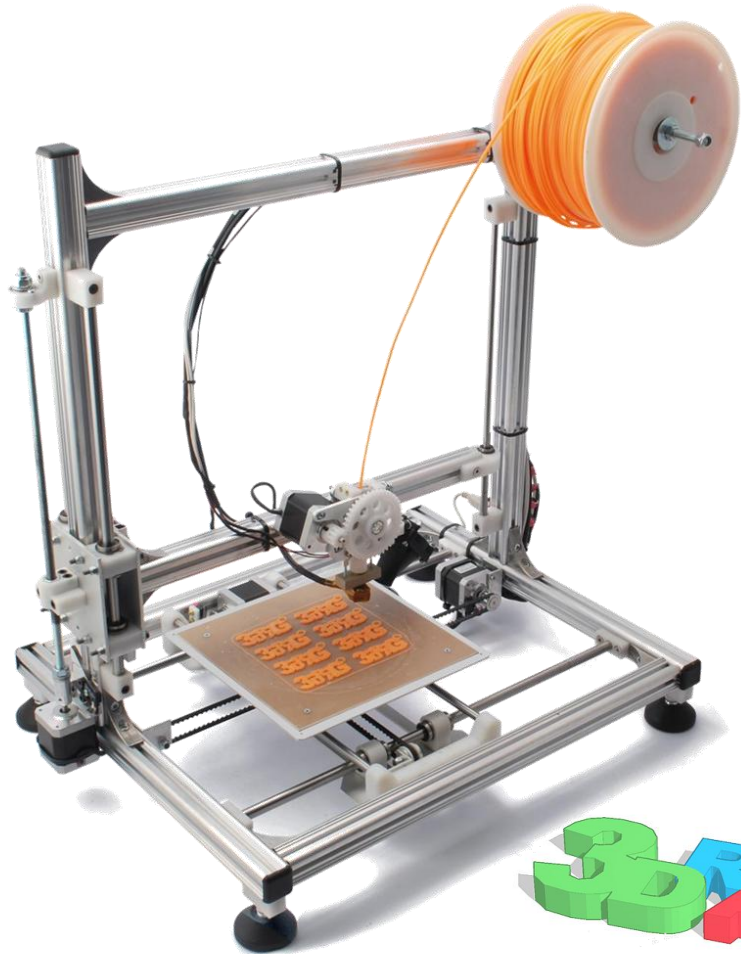
- Working
- Experimental
- Concept
- Other oshw project
- Commercial

- Common
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- ⋯ Work in progress

CARTESIAN

X Head YZ Bed

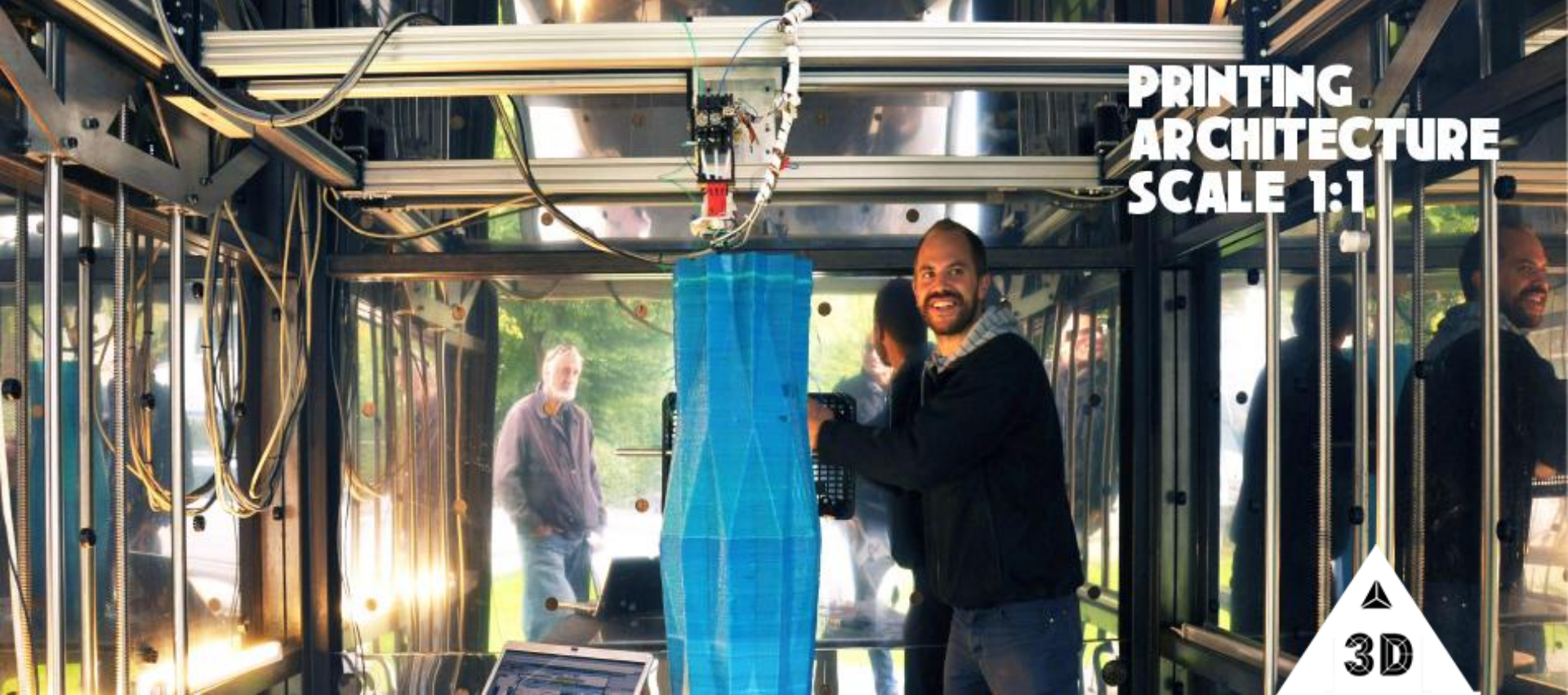




+10k

- Rep Rap based
- Open Source
- Created in Gallarate





**PRINTING
ARCHITECTURE
SCALE 1:1**

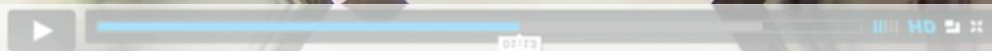
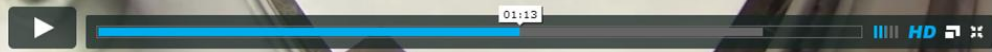


3D

**PRINT
CANAL
HOUSE**

**KAMER
MAKER**

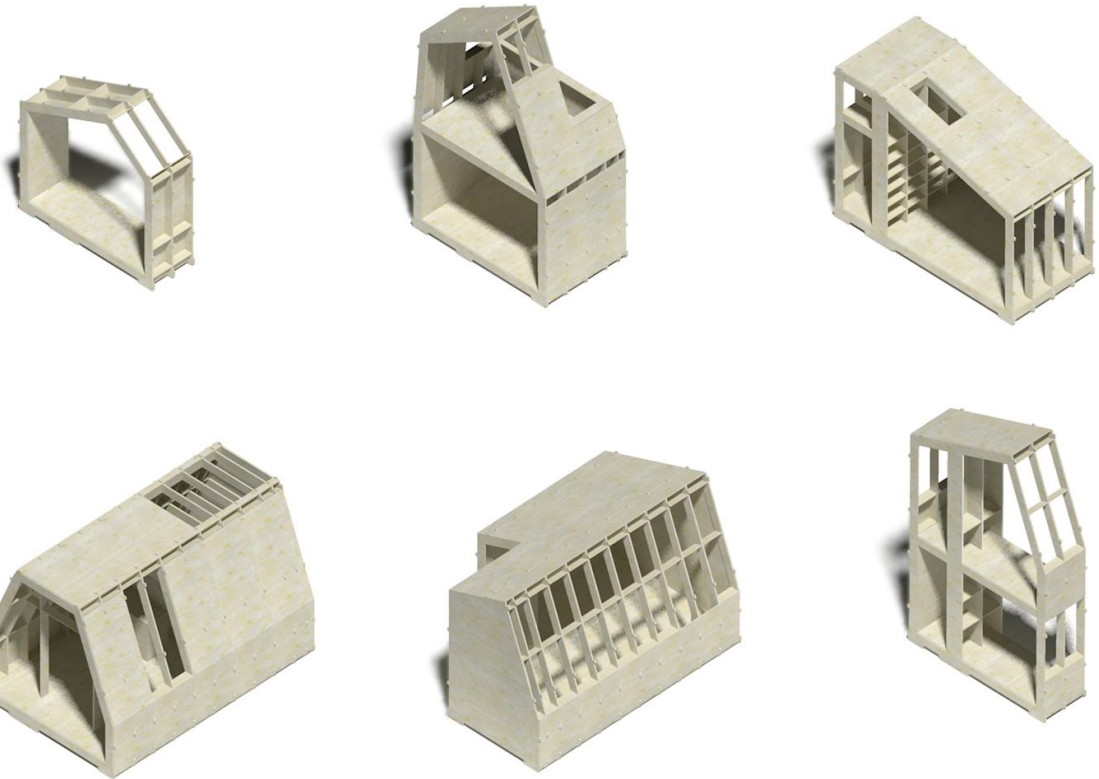
**3D-PRINT
ARCHITECTURE**
BUILDING THE FIRST 3D-PRINTED
CANAL HOUSE IN 2013
BY DUS ARCHITECTS



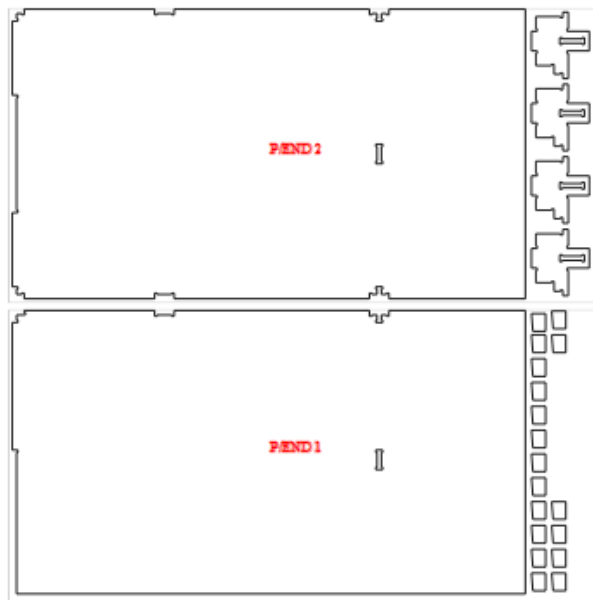
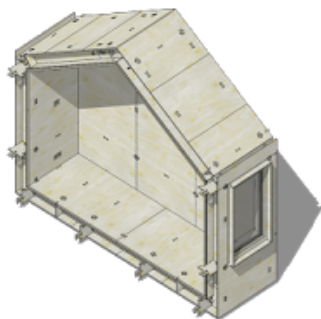
▲
3D
PRINT
CANAL
HOUSE



3ders.org



WikiHouse ©



WIKIHOUSE V3.1.3

Model No. 63001

By: alastair@project00.cc

Series: C

Grid: Other

Verification:

Notes: Constructed using structural spruce plywood, offsets of approx 0.2mm. Built indoors but general impression is highly robust.

Moderation status: approved.

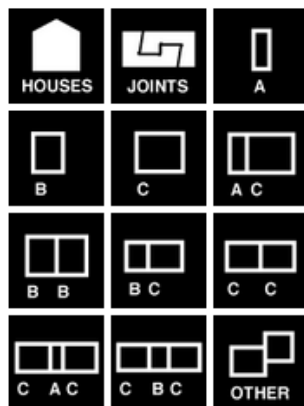
Edit

Delete

Description:

End section of the v3.1 system. This prototype was constructed very successfully at the design museum, London. Includes service zone. Note do not generate cutting files from this model as it includes marked drill holes and both 12mm and 18mm sheet.

Series





WikiHouse ©



00:41

HD

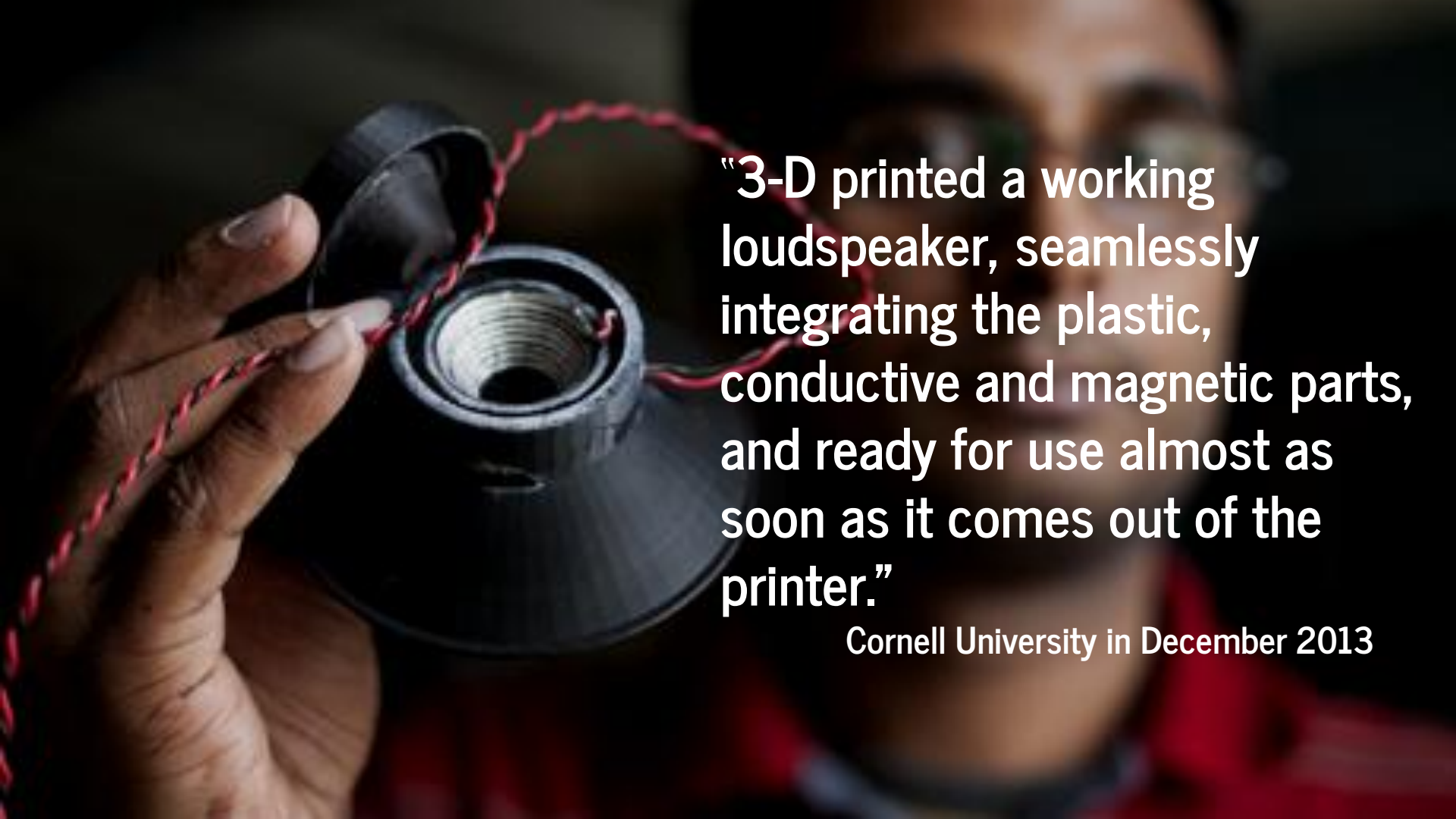


Bits = Atoms

A man with curly hair and glasses, wearing a light blue button-down shirt, is gesturing with his hands while speaking. He is standing in front of a white wall with a grid pattern. The background is slightly blurred.

“The **revolution** is
the ability to
turn **data** into things
and **things** into **data**.
That is what
is coming.”

Neil Gershenfeld



“3-D printed a working loudspeaker, seamlessly integrating the plastic, conductive and magnetic parts, and ready for use almost as soon as it comes out of the printer.”

Cornell University in December 2013





X2

18 months



Fablabs globally





BCN

FROM FAB LABS TO FAB CITIES

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THE 10TH INTERNATIONAL FAB LAB CONFERENCE

BARCELONA

2-8 JULY 2014

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Tomas Diez

“FAB City will turn Barcelona in a productive city, bringing back productivity inside the city, to the citizens”



Learn



Laboratori, workshop, corsi
per scambiare conoscenze

Make



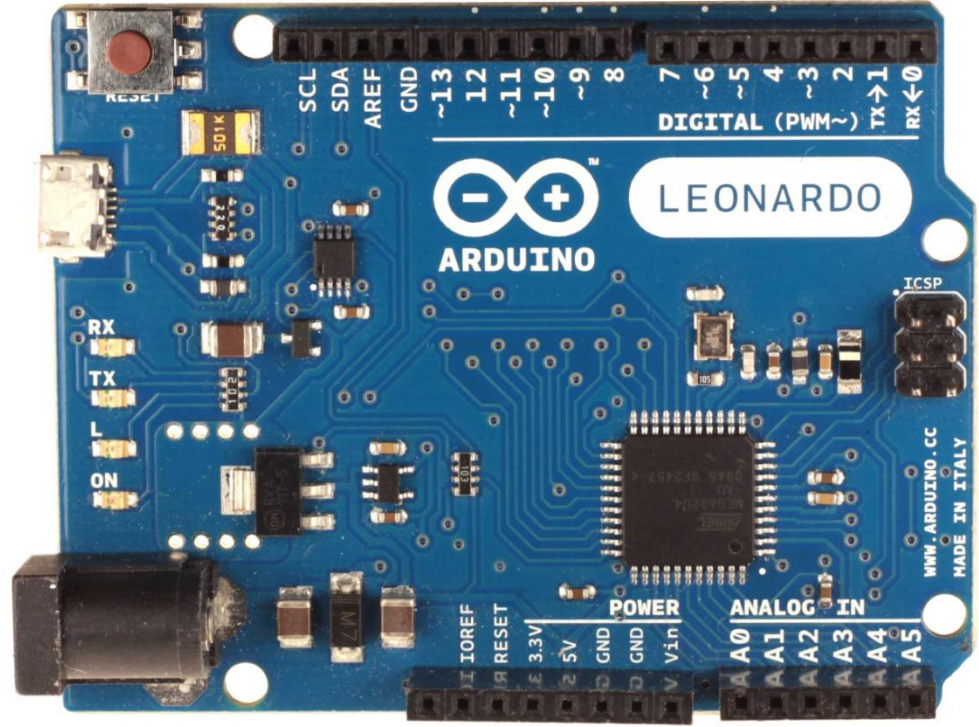
Prendiamo confidenza
con la digital fabrication

Share



Condividiamo idee e progetti
perchè crediamo

DIY MAKERS



Massimo Banzi

Hardware becomes a
piece of culture that
anyone can build upon,
like a poem or a song.





Dale Dougherty: We are makers

ROME

Maker Faire®

THE EUROPEAN EDITION

BE A
MAKER

HOW TO
PARTICIPATE

CHECK OUT
THE PROGRAM

BLOG

VENUE

A four-day, family-friendly festival of invention, creativity and resourcefulness, and a celebration of the Maker movement.



The Call For Makers Is Open! Are you ready to show and tell?

Posted 1 March, 2013 by [Massimo Banzi](#) | [Leave a comment.](#)



Get news and updates



+35000

ppp



***i*fixit**

WE HOLD THESE TRUTHS TO BE SELF-EVIDENT

SELF-REPAIR MANIFESTO:

REPAIR IS BETTER THAN RECYCLING.

MAKING OUR THINGS LAST LONGER IS BOTH MORE EFFICIENT AND MORE COST-EFFECTIVE THAN MINING THEM FOR RAW MATERIALS.

REPAIR SAVES THE PLANET.

EARTH HAS LIMITED RESOURCES AND WE CAN'T RUN A LINEAR MANUFACTURING PROCESS FOREVER. THE BEST WAY TO BE EFFICIENT IS TO REUSE WHAT WE ALREADY HAVE!

REPAIR SAVES YOU MONEY.

FIXING THINGS IS OFTEN FREE, AND USUALLY CHEAPER THAN REPLACING THEM. DOING THE REPAIR YOURSELF SAVES SERIOUS DOUGH.

REPAIR TEACHES ENGINEERING.

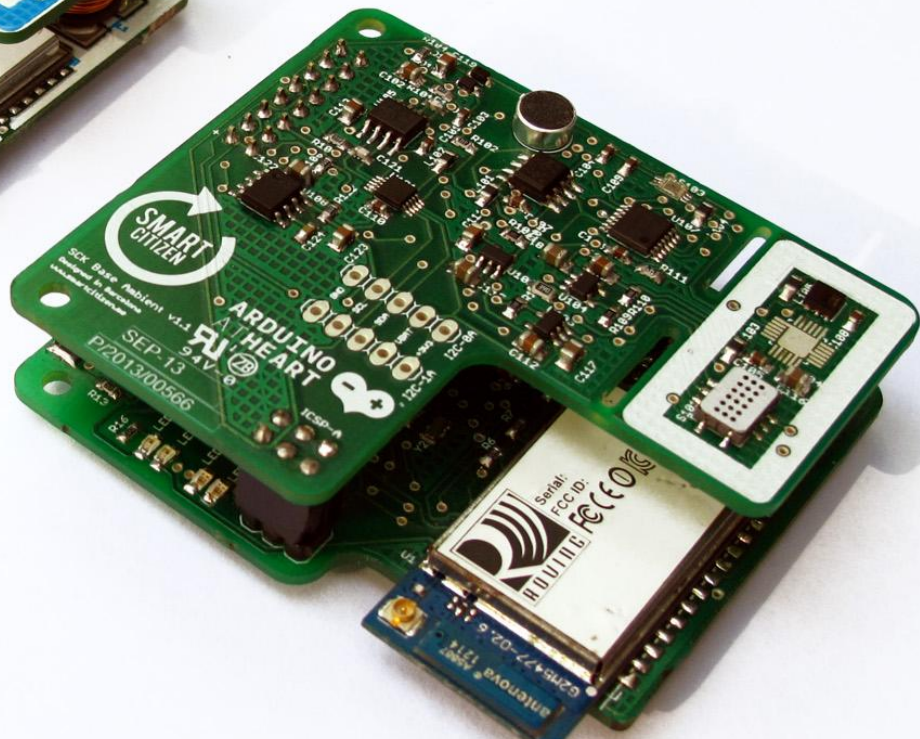
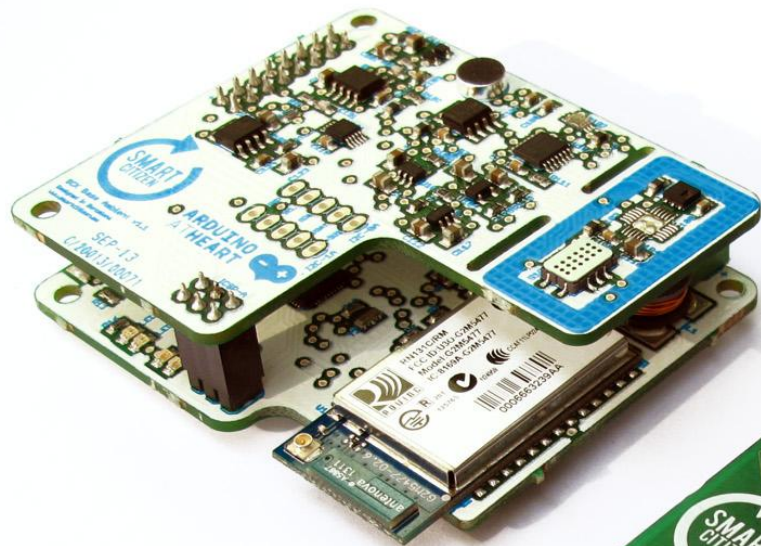
THE BEST WAY TO FIND OUT HOW SOMETHING WORKS IS TO TAKE IT APART!

IF YOU CAN'T FIX IT, YOU DON'T OWN IT.

REPAIR CONNECTS PEOPLE AND DEVICES, CREATING BONDS THAT TRANSCEND CONSUMPTION. SELF-REPAIR IS SUSTAINABLE.



User > Maker > Citizen





Open Source Beehives

Make your own printable, smart beehive to track colony health and promote international bee recovery.

Technology – Denver, Colorado, United States

[Campaign Home](#)[Updates / 7](#)[Comments / 84](#)[Funders / 1103](#)[Gallery / 4](#)

\$49,208 USD

Raised of \$20,000 Goal

 **19** days left

[CONTRIBUTE NOW ▶](#)

Flexible Funding

This campaign will receive all funds raised even if it does not reach its goal. Funding duration: March 10, 2014 - April 25, 2014 (11:59pm PT).

Select a Perk *for your contribution*

\$25 USD

Featured

Share This Campaign:

<http://igg.me/at/osbeehives>

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ACCU-SYSTEMS

eclipse

2009:
...a Novel



2013
business
book



**THE NEW
INDUSTRIAL
REVOLUTION**

CHRIS ANDERSON

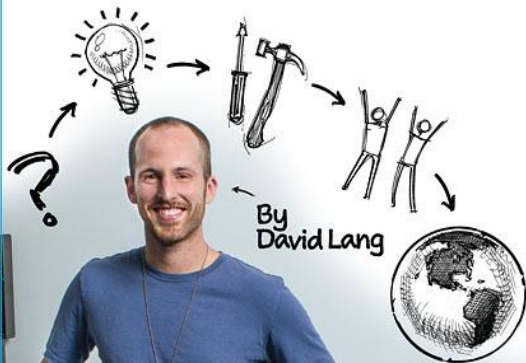
Author of the bestseller [The Long Tail](#)

Author of the bestseller [The Long Tail](#)

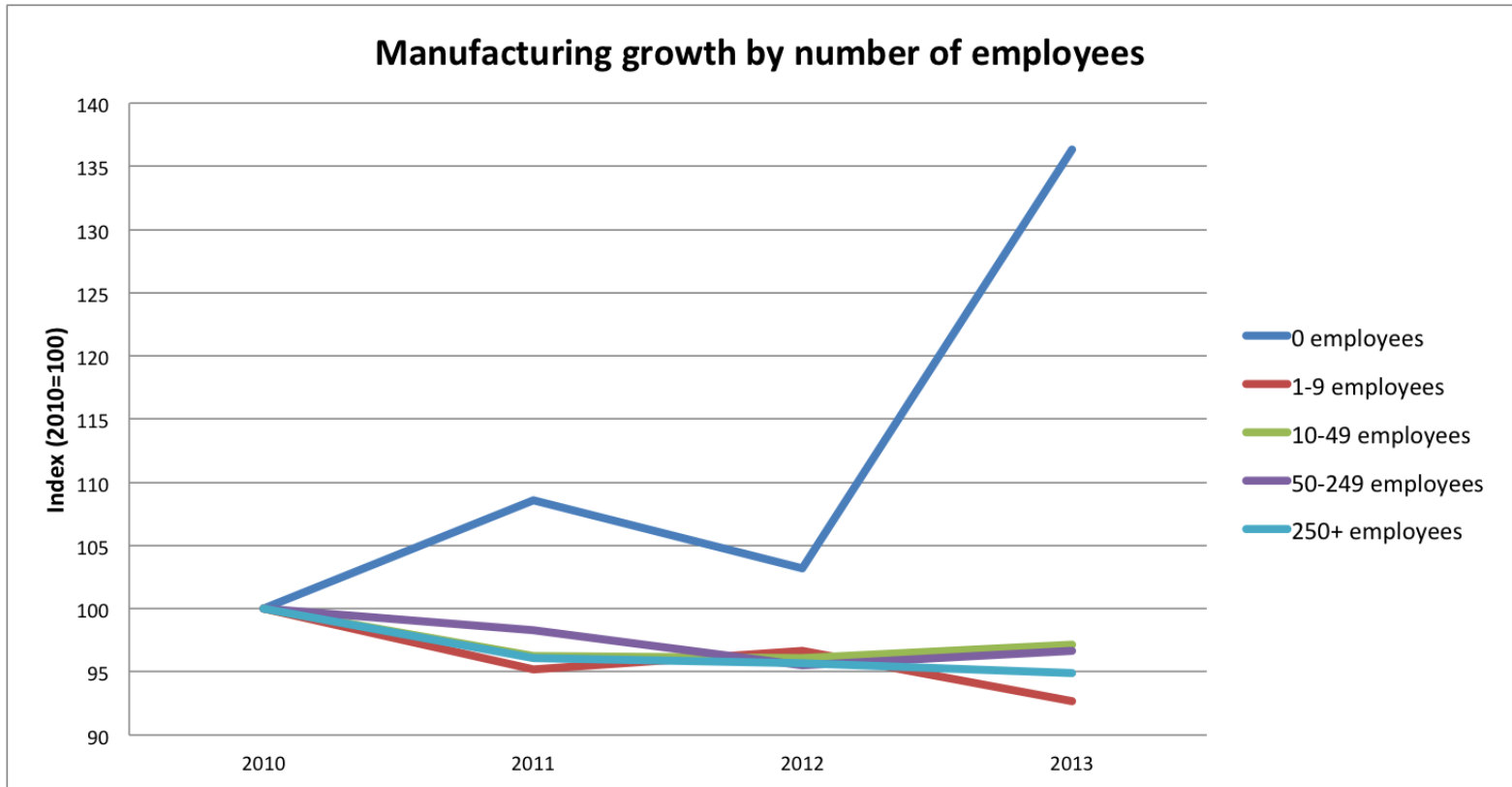
From
Make:
magazine

Zero to Maker

Learn (Just Enough) to Make
(Just About) Anything



2013



From EEF's "Backing Britain - a manufacturing base for the future" UK data

sei un artigiano?

Finalmente puoi trovare dei prodotti ideati da professionisti, pronti per essere prototipati e venduti..



Ricerca

Cerca tra i design caricati su Slow/d, selezionandoli per materiale o categoria di prodotto



Produzione

Individua il progetto e inizia a dar forma al prototipo, confrontandoti con il designer che l'ha ideato



Feedback

Comunica con designer e artigiani della rete, lascia il tuo commento o fai domande per creare una community attiva



Guadagna

Produci per i clienti online e per i tuoi "off-line", percepisci royalties come il designer



Vale lampada a sospensione

[Aggiungi Al Carrello](#)

Lampada a sospensione in plexiglas bianco, realizzata con taglio laser.

Forma dinamica in continua evoluzione che varia a seconda del punto di osservazione.

Fornita con lampadina a fluorescenza compatta a goccia a luce bianca calda, potenza 20w (86w).

SPEDIZIONE GRATUITA IN ITALIA

Se abiti in un paese extra-UE e sei interessato all'acquisto, contatta MakeTank.

Maker: [cbdisegno](#)

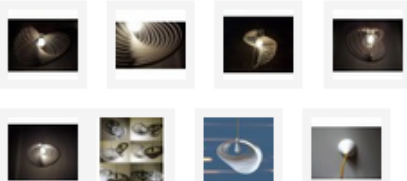
DISPONIBILE
PRODUCTION TIME: 5 GIORNI LAVORATIVI

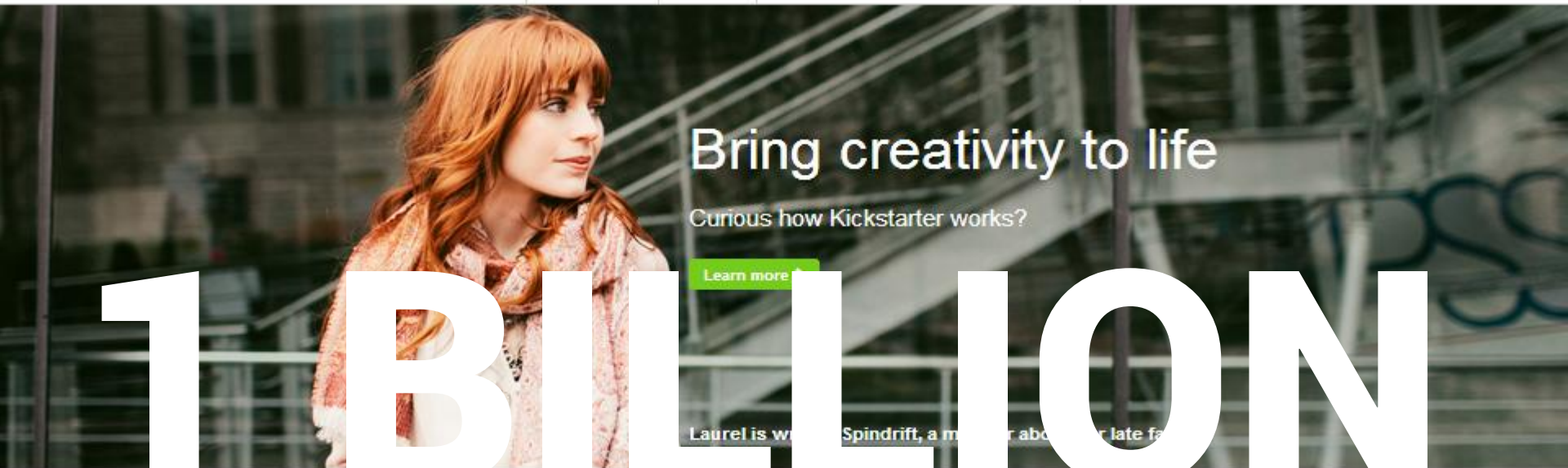
€ 249,00

Quantità *

1

Cavo disponibile nei colori: *





Bring creativity to life

Curious how Kickstarter works?

Learn more

1 BILLION

Laurel is w... Spindrift, a m... r about... r late fa...

Staff Picks: Games

See all 377 Games projects



Max Gentlemen

by The Men Who Wear Many Hats in Chicago, IL

Max Gentlemen is an arcade-style extreme manners simulator about stacking hats, inspired by a spam email.

- Art
- Comics
- Dance
- Design
- Fashion
- Film & Video
- Food
- Games**
- Music
- Photography
- Publishing



FABtotum Personal Fabricator

FABtotum - the Multipurpose Open Source Low Cost Personal Fabricator. Scan, 3D Print, Cut/Mill. A seamless interaction between the digital and physical world.

Technology – Milan, Italy

Campaign Home

Updates / 26

Comments / 944

Funders / 906

Gallery / 10

from FABtotum **PLUS**



03:47

\$589,564 USD

Raised of \$50,000 Goal



0 time left

Fixed Funding

This campaign has ended and will receive all funds raised. Funding duration: August 19, 2013 - October 17, 2013 (11:59pm PT).

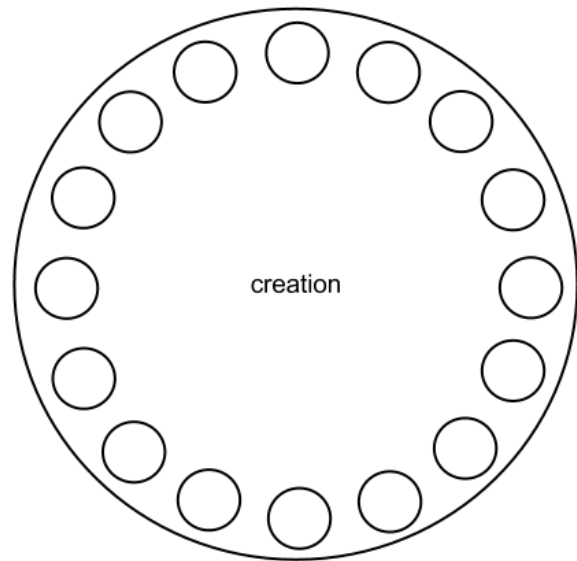
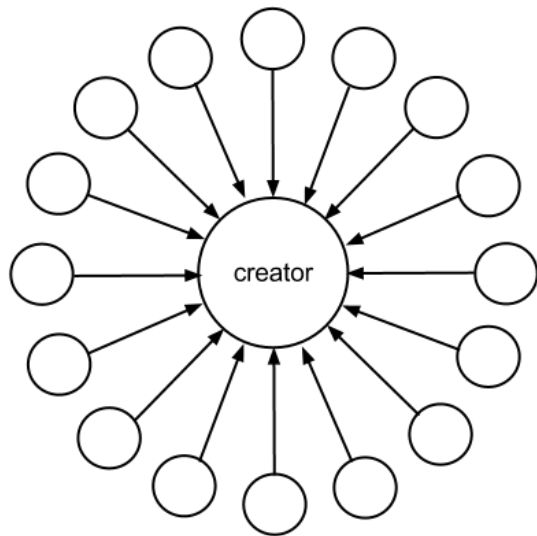
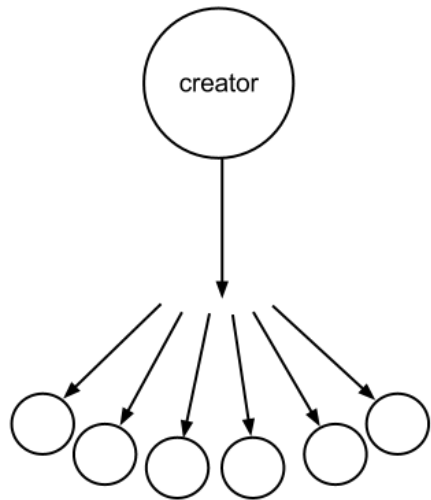
Select a Perk *for your contribution*

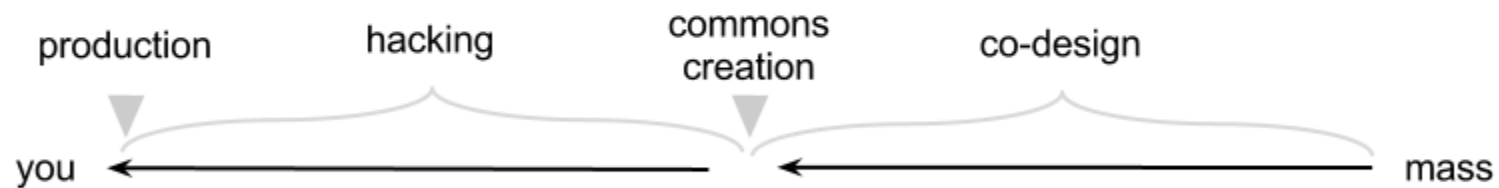
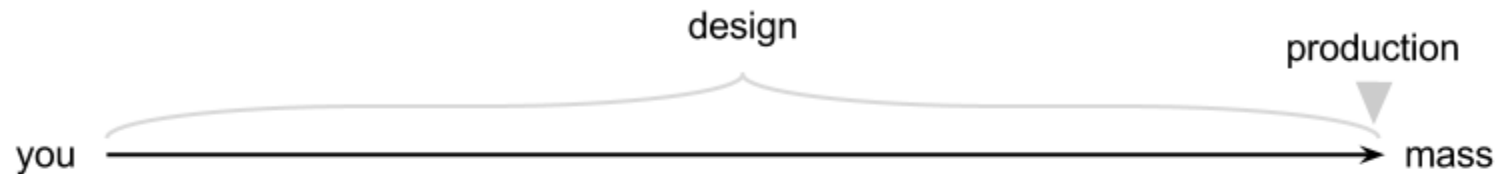
\$1 USD

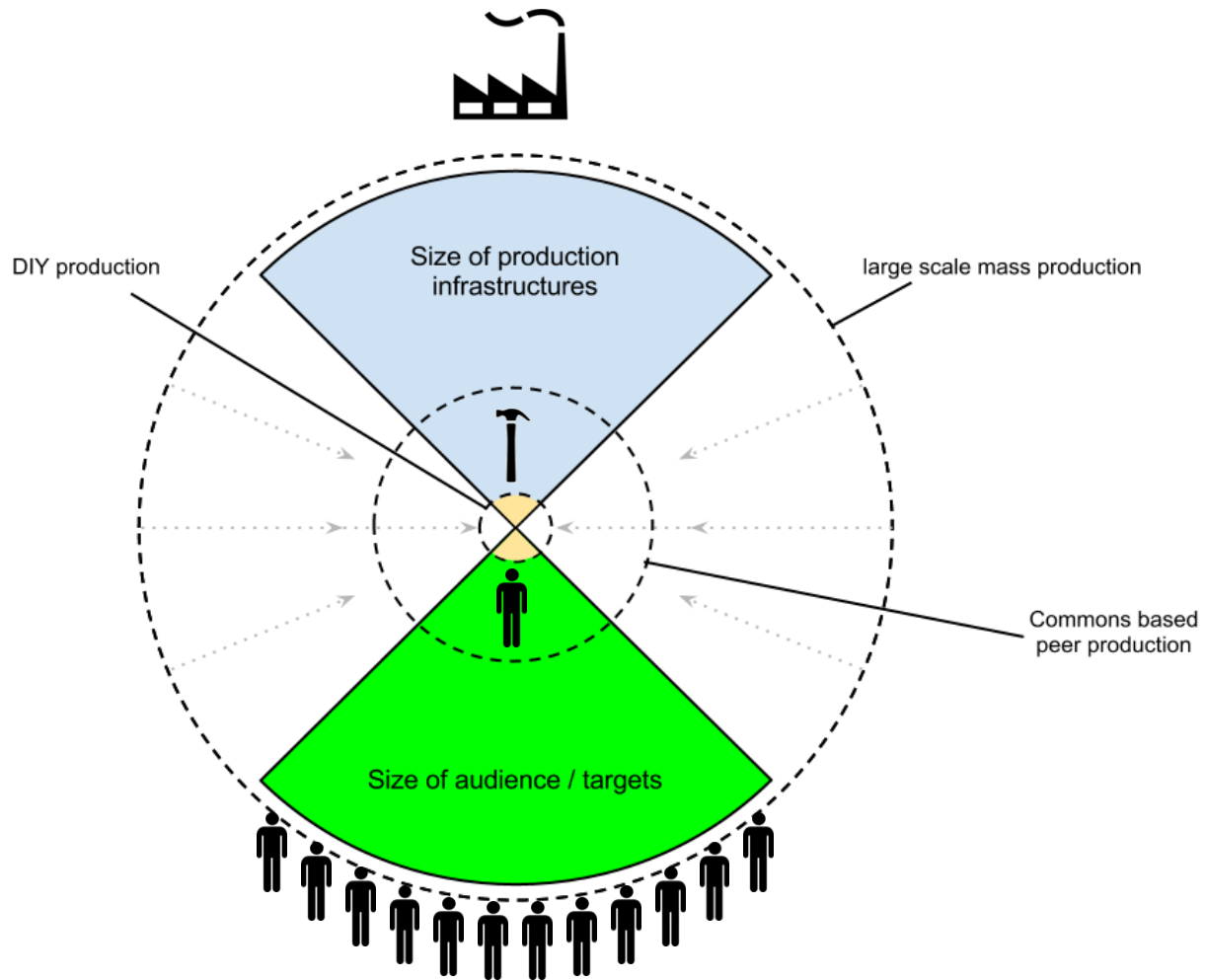
DIT

Back This Project

\$1 minimum pledge

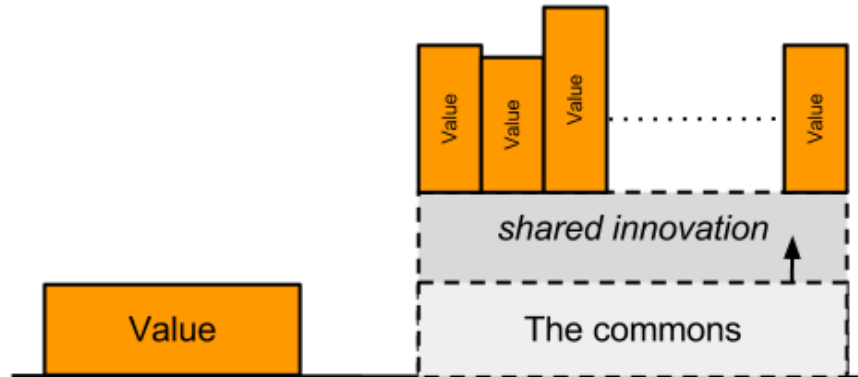
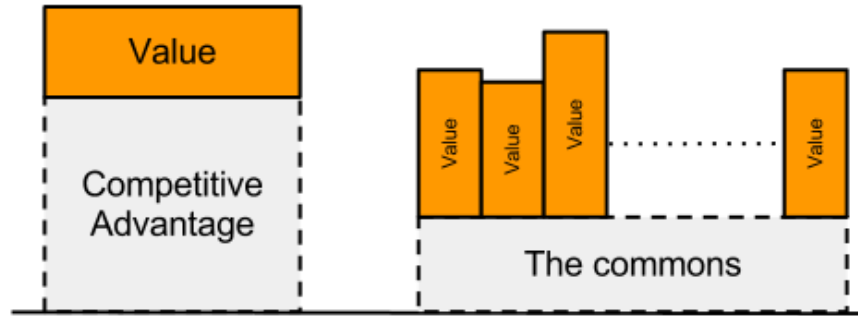


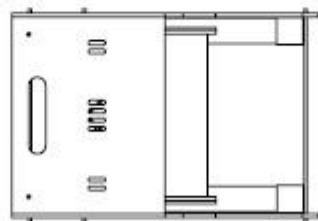
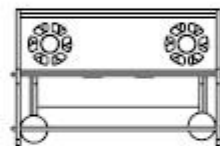
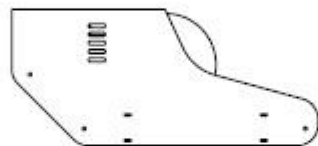
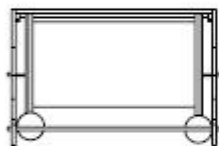
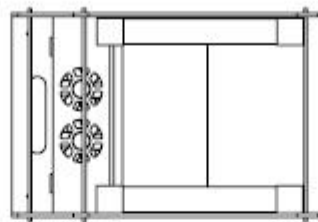
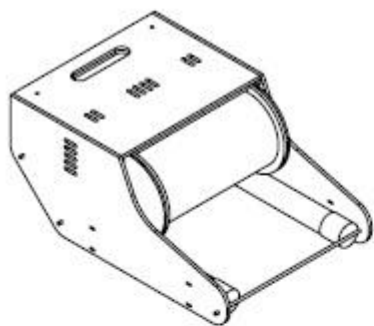




DIO(pen)





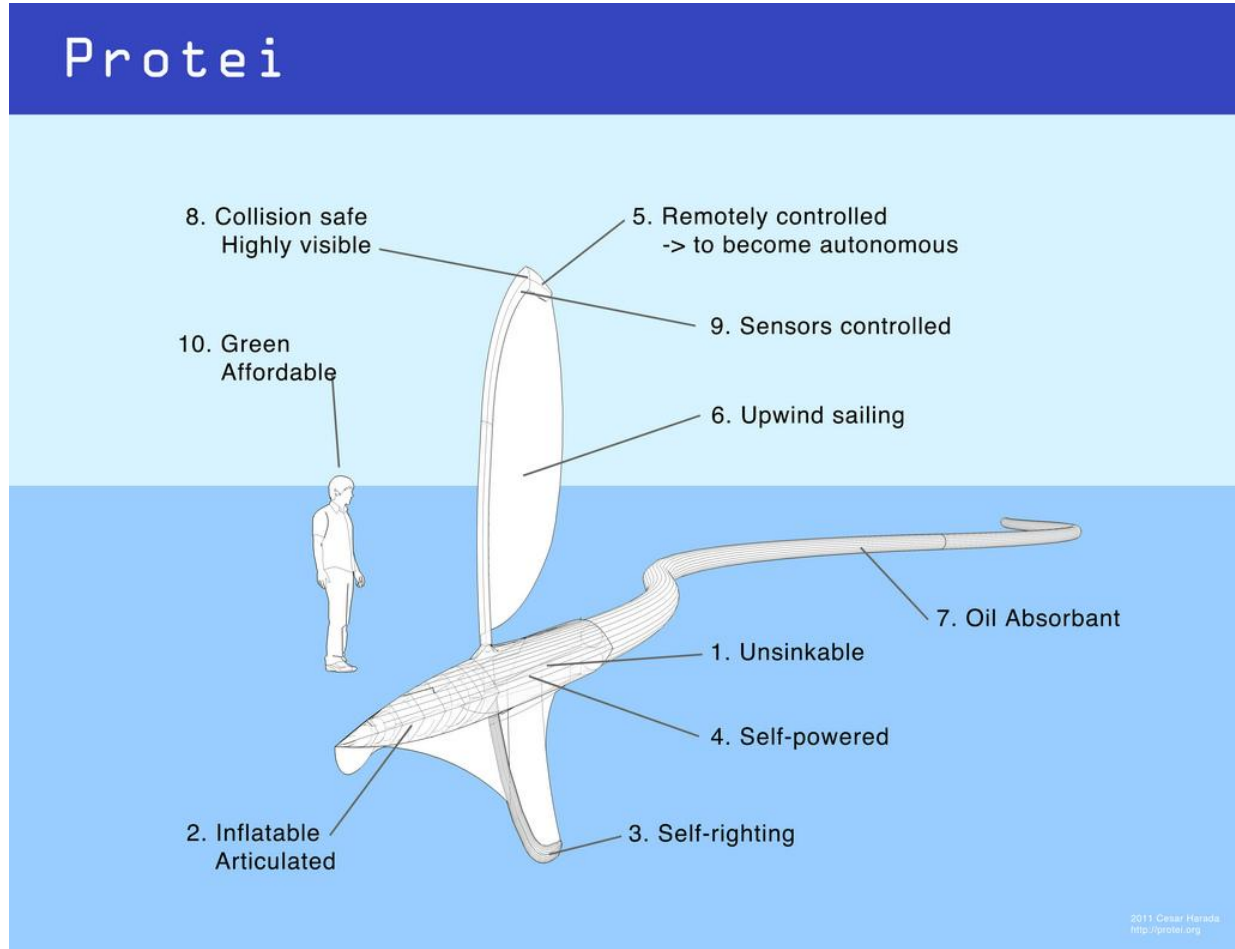


OpenROV.com



Protei

Open Source Sailing Drone







OpenDesk 



Designs

Makers



Studio

Workshop

Fit out your **work space** with **open furniture** »



Designed to be **made locally** — all over the world »

“It’s paradoxical that vast populations living in poverty are surrounded by an abundance of natural resources from which all the wealth of the economy is built”

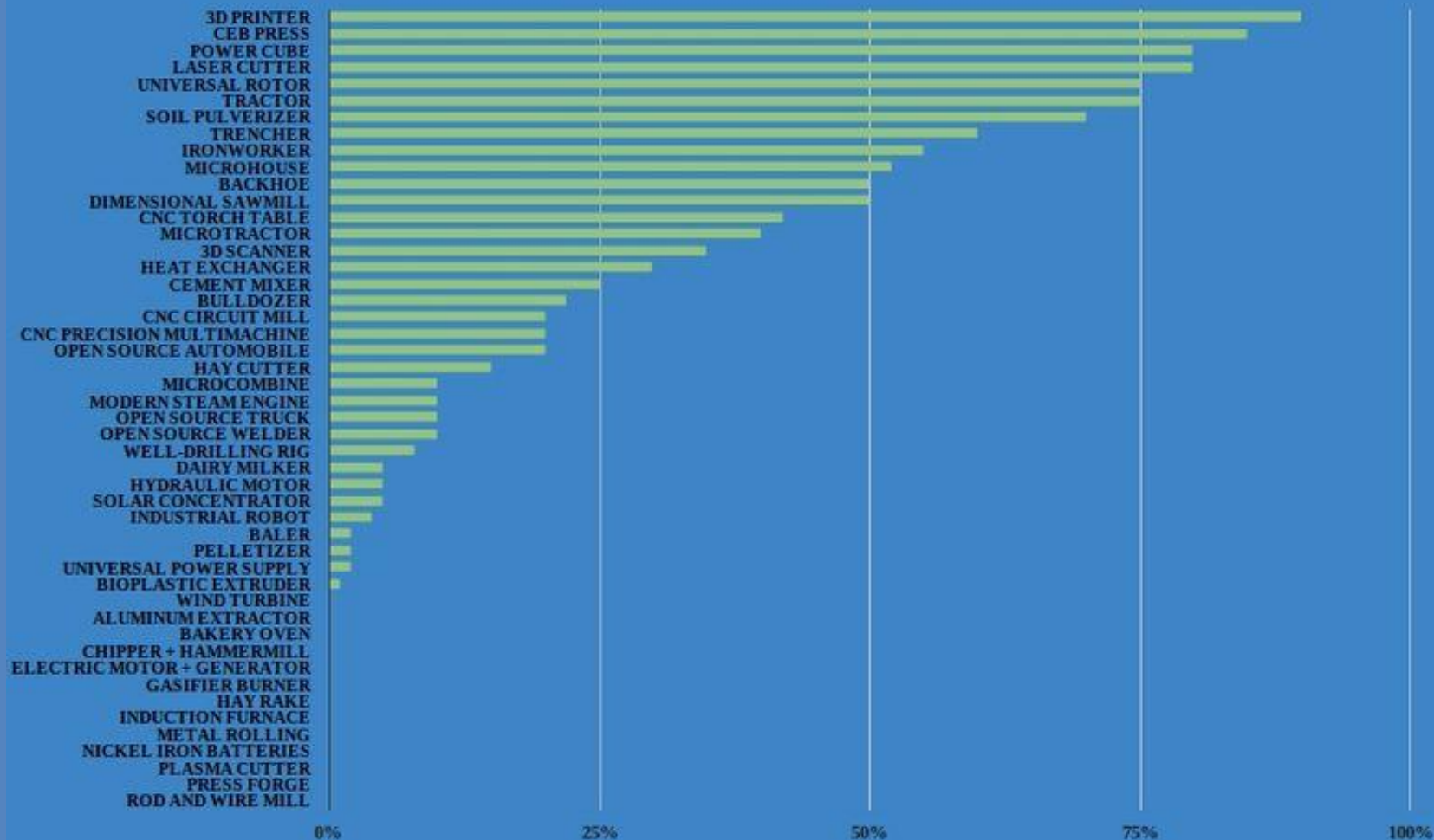
Marcin Jakubowski
Open Source Ecology





Global Village Construction Set

PERCENTAGE OF COMPLETION





OPEN STRUCTURES : THE UNIVERSAL “LEGO” GRID FOR FULLY MODULAR AND OPEN MANUFACTURING



Mod-bike[®]
Design by Jo Van Bostraeten 2009

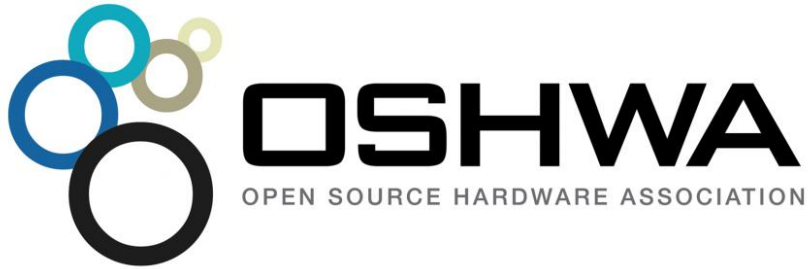




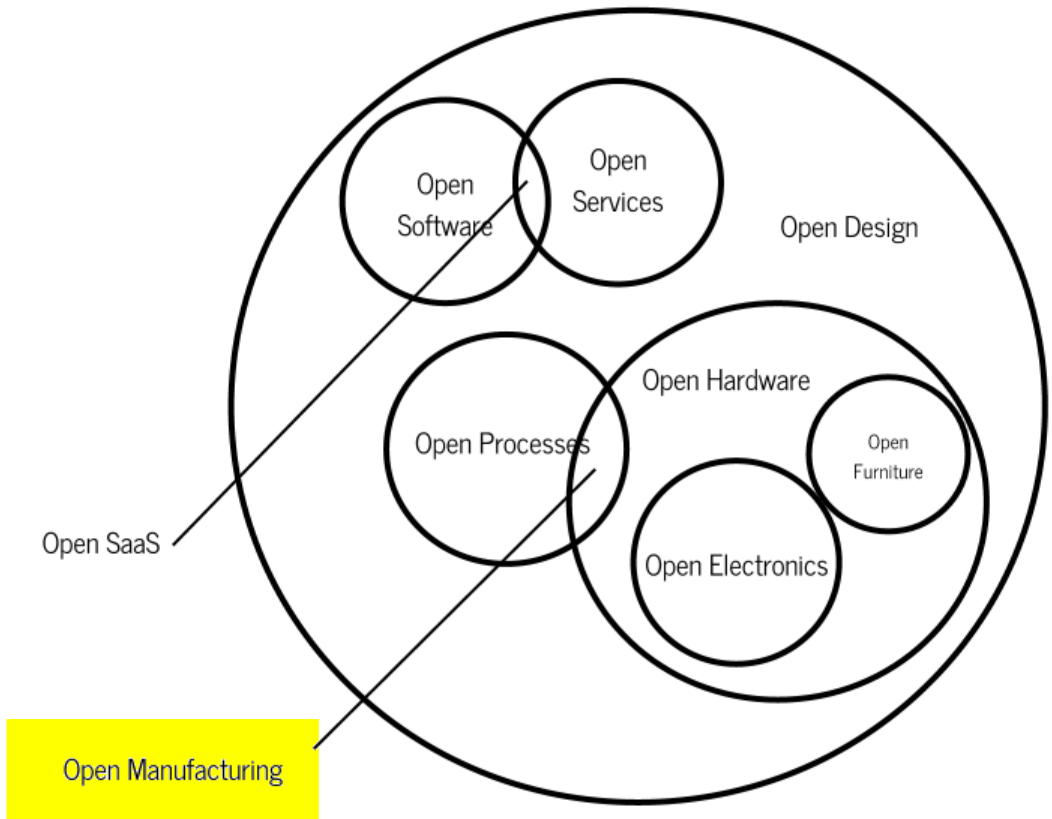
Open Modular Kitchen

Design by Thomas Lommée + Christiane Hoegner + Jo Van Bostraeten + Michou-Nanon De Bruijn + Biogas-E + Unfold + Lucas Maassen 2009





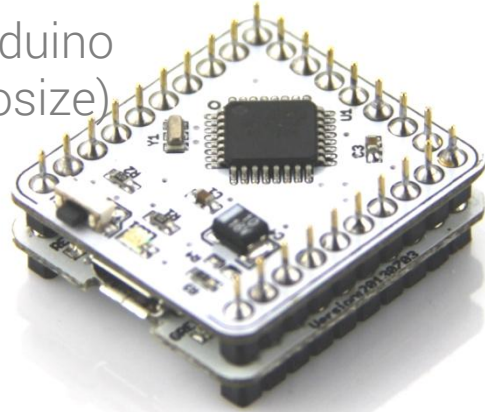
Open Knowledge
Foundation





interfaces

Microduino
(microsize)



Smartduino
(modularity)



Flutter
(long range)



P R O J E C T A R A

INTRODUCING ARA

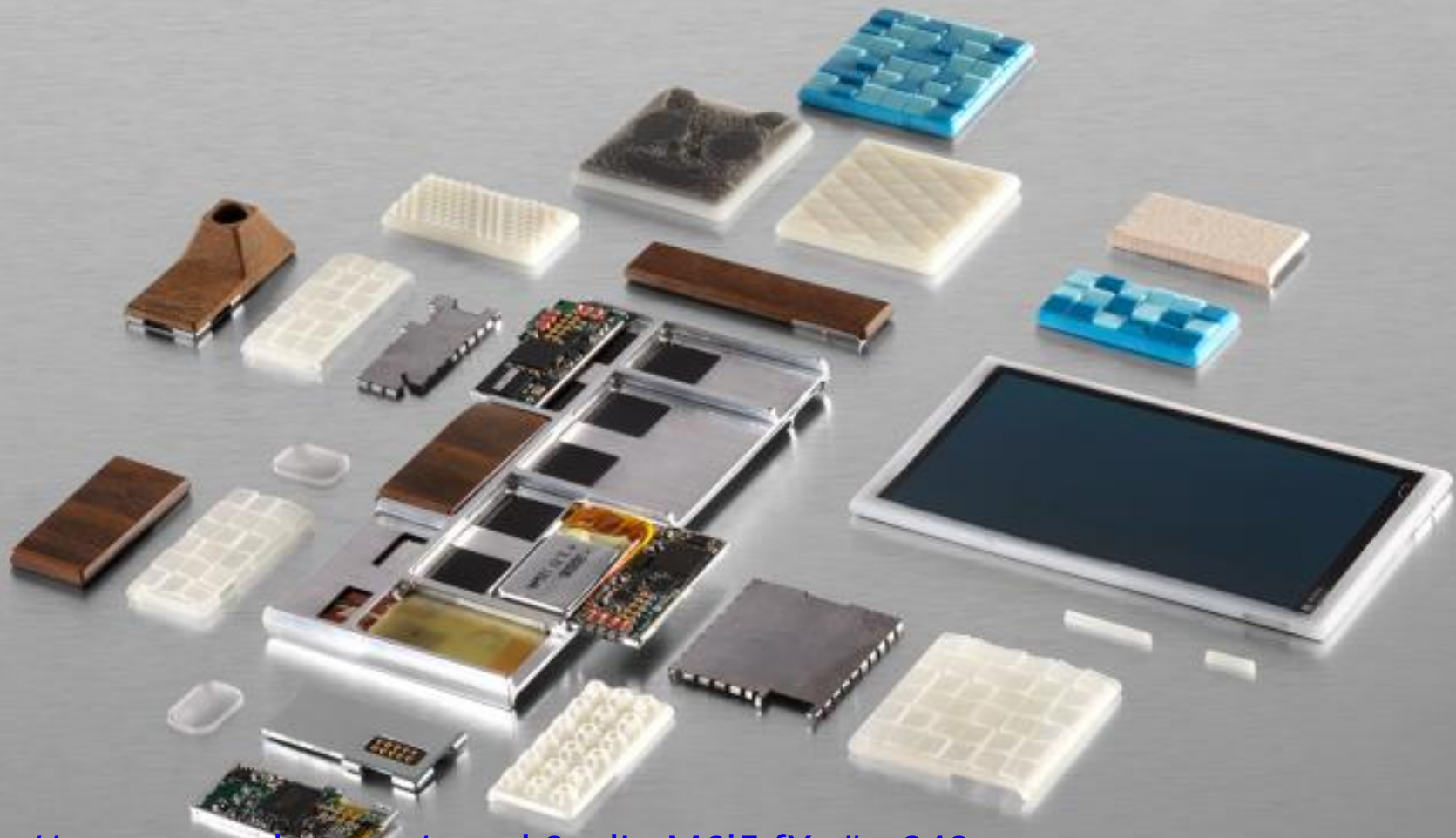
The smartphone is one of the most empowering and intimate objects in our lives. Yet most of us have little say in how the device is made, what it does, and how it looks. And 5 billion of us don't have one. What if you could make thoughtful choices about exactly what your phone does, and use it as a creative canvas to tell your own story?

Introducing Project Ara.

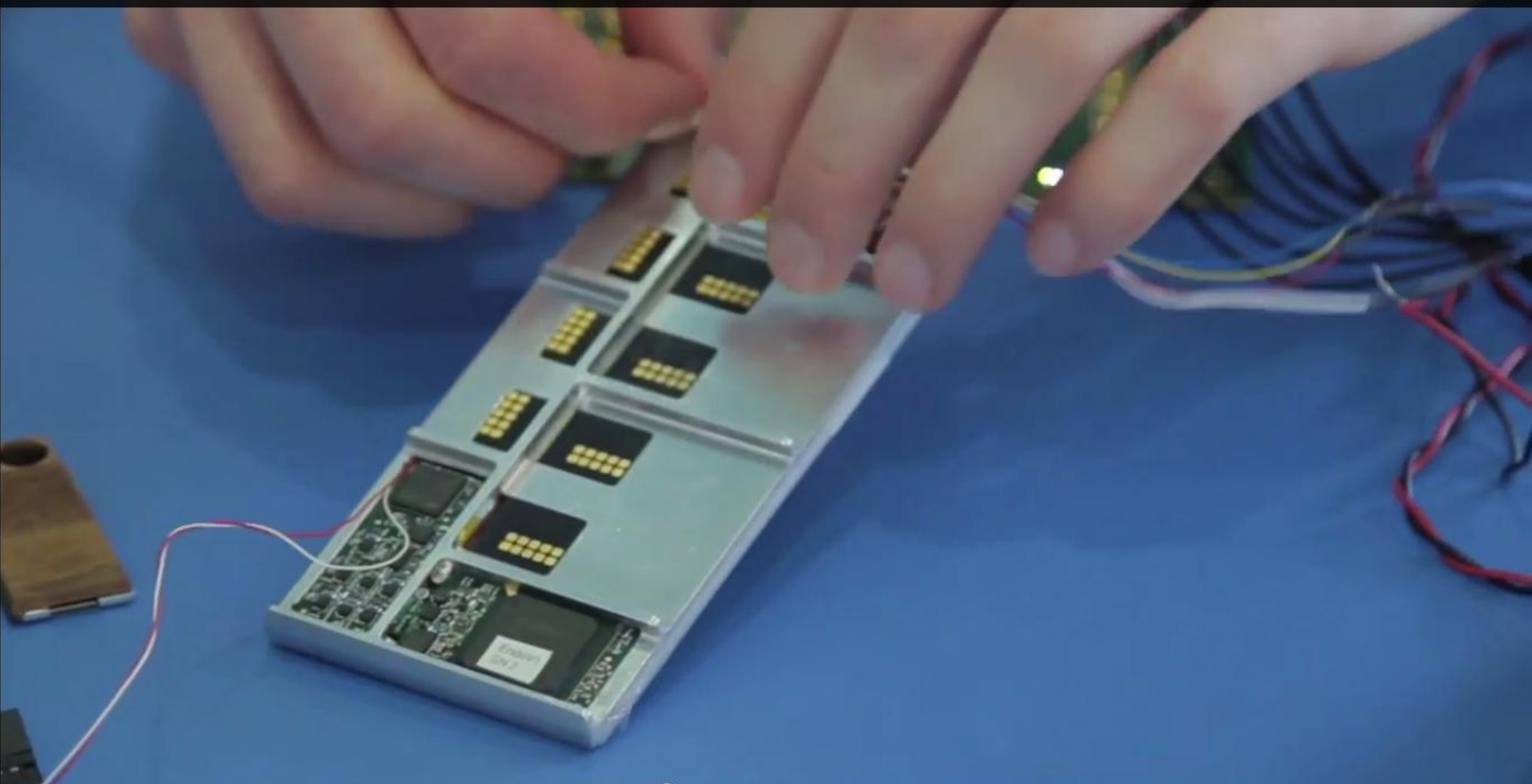
Designed exclusively for 6 billion people.

We are excited to announce the first Ara Developers' Conference, to be held April 15-16, 2014. The Developers' Conference will be held online, with a live webstream and interactive Q&A capability. A limited number of participants will be able to attend in person at the Computer History Museum in Mountain View, California.





<https://www.youtube.com/watch?v=iLnM6j5-fXg#t=248>







moto x

\$374.99*

or as low as \$25/month with financing

No contract

With contract

Moto X Details

Accessories 1

Promotions *



 Save

 Try 3D Beta

 Zoom



1 Styling

2 Features

3 Accessories



Back



Front



Accent



Signature

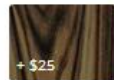


Clear Case

Back Color

Real woods with a grain as unique as you are.

Natural (4)



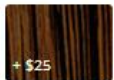
+\$25

Walnut Finish



+\$25

Bamboo



+\$25

Ebony Finish



+\$25

Teak Finish



Cool (10)

A range of hues from blue to green.



Warm (10)

Review + Checkout

Designed by You. Assembled in the USA.
Free Shipping & Returns
Estimated delivery: 7 Days



Home · Phones

NEWS

3D-printed modules for Google's Ara phone coming early next year



3D Systems will manufacture the plastic parts, including the circuitry inside,



By Agam Shah | Follow

IDG News Service | Apr 4, 2014 4:32 AM

Motorola

3d printing

Lego-like parts that will form the building blocks for Google's Project Ara will be produced on 3D printers and

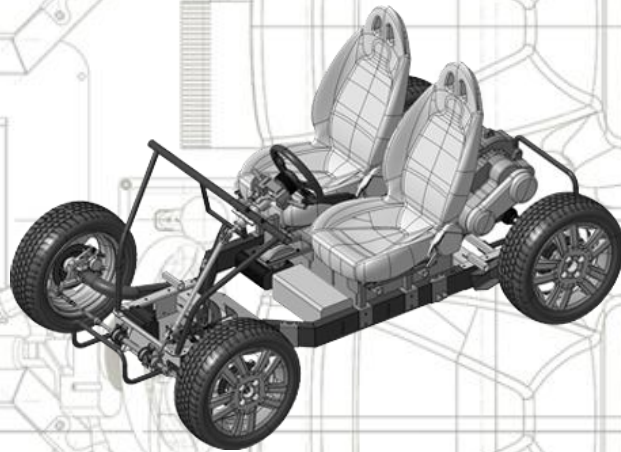


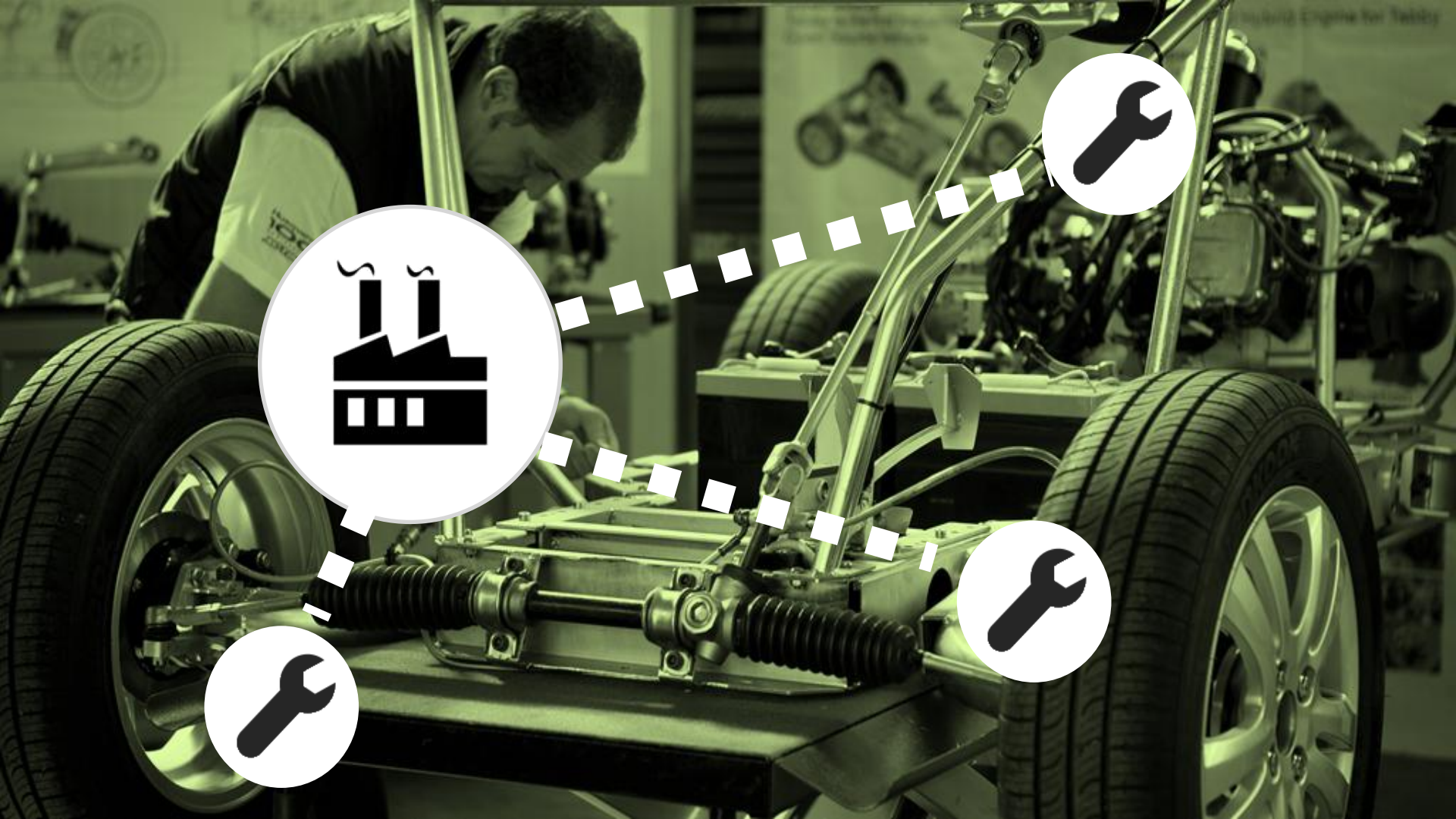
HTC execs say it's not too late for a do-over: One-on-one with the president

OSVehicle

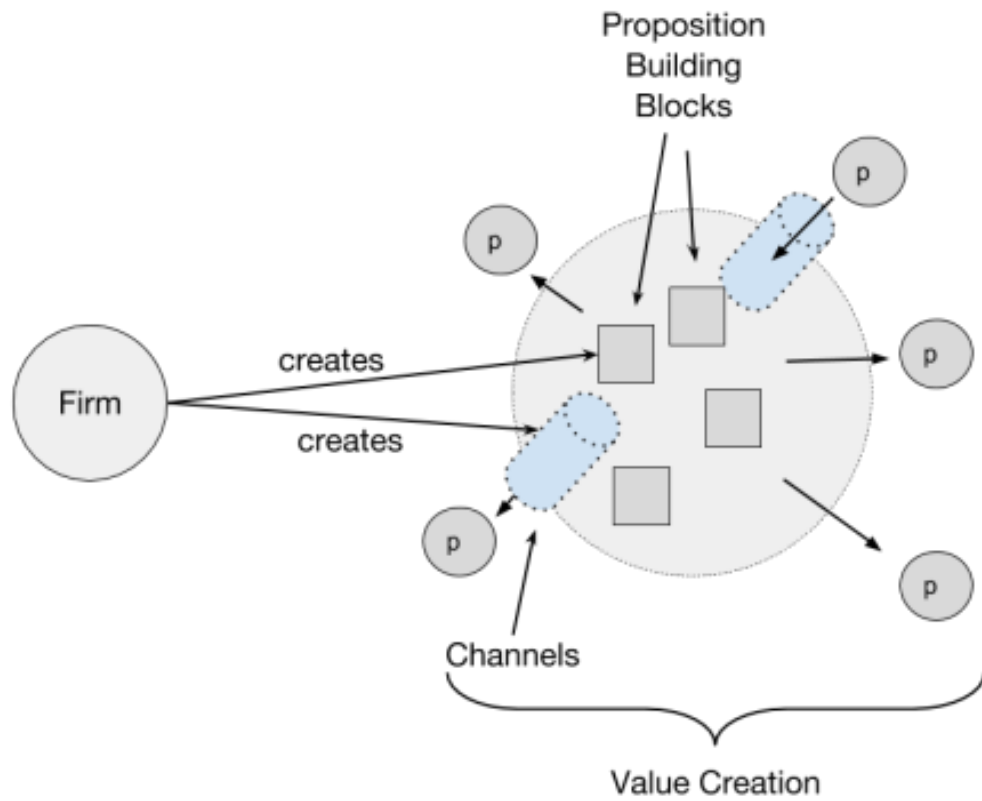


OSVehicle

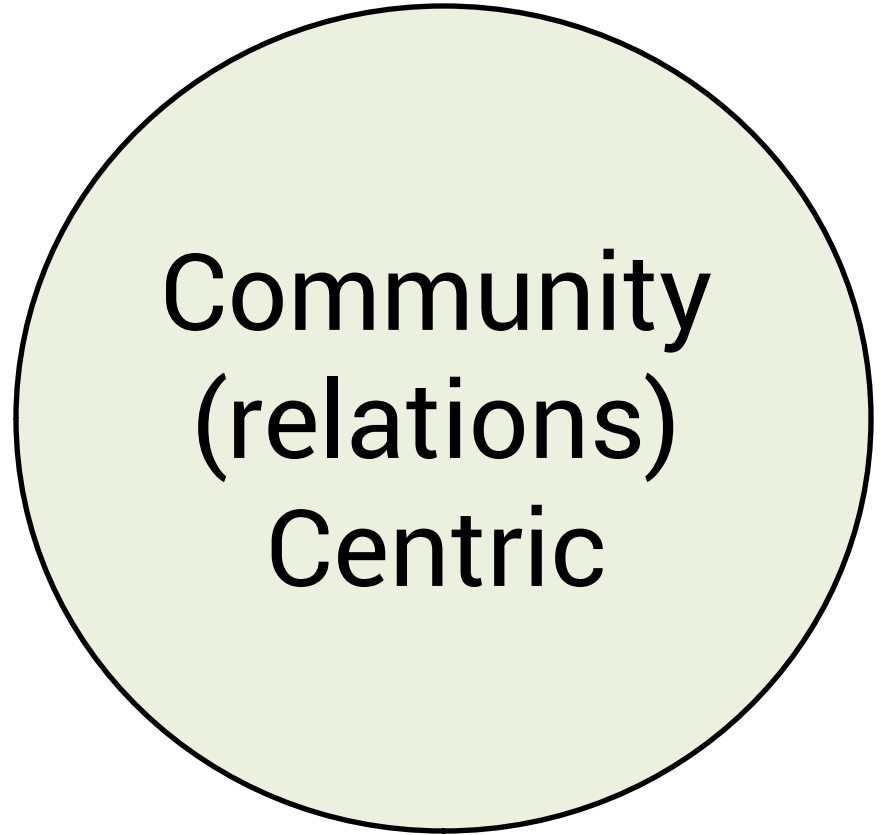
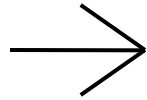




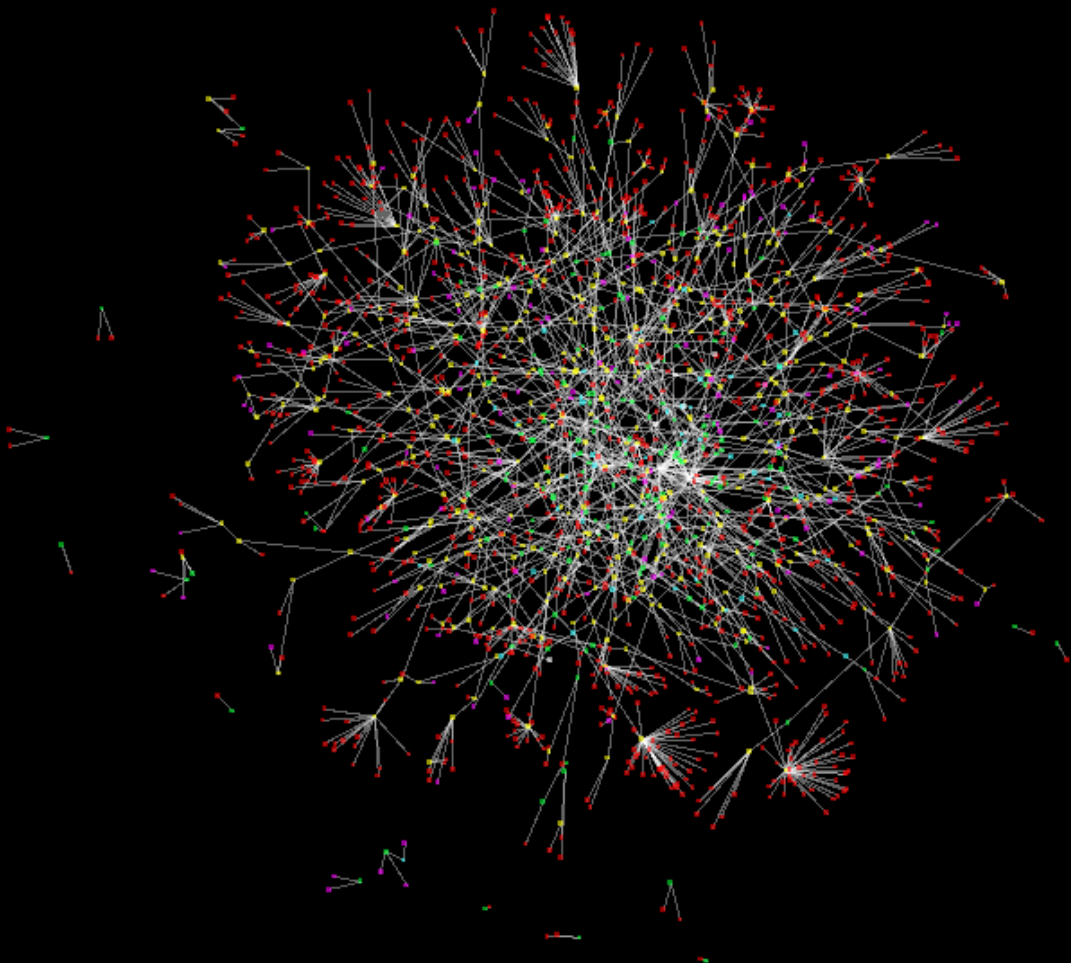
PLATFORMS



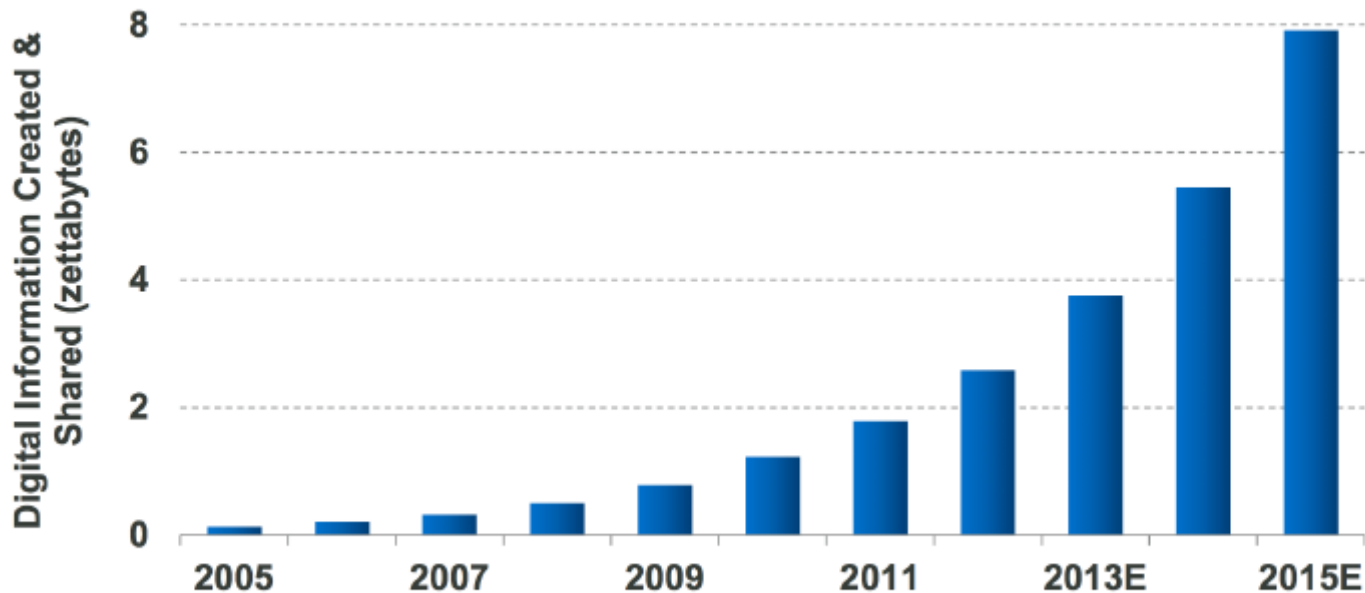
User
(gap)
Centric



Community
(relations)
Centric



Global Digital Information Created & Shared, 2005 – 2015E



complexity



Singularity

(credits @davidorban)

Questions



Answers

“...all of these amazing digital technologies are coming together to create a world of mounting performance pressure.”



PIENSE

ΣΚΕΨΟΥ

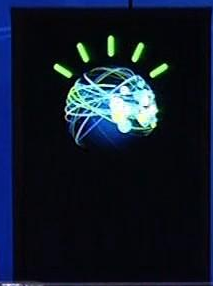
THINK

ΣΜΑΘΙΜΙΣ

DENKE

मोचिए

PENSER



\$24,000

Who is Stoker?
 (FOR ONE WELCOME OUR
 NEW COMPUTER OVERLORDS)

\$ 1,000

\$77,147

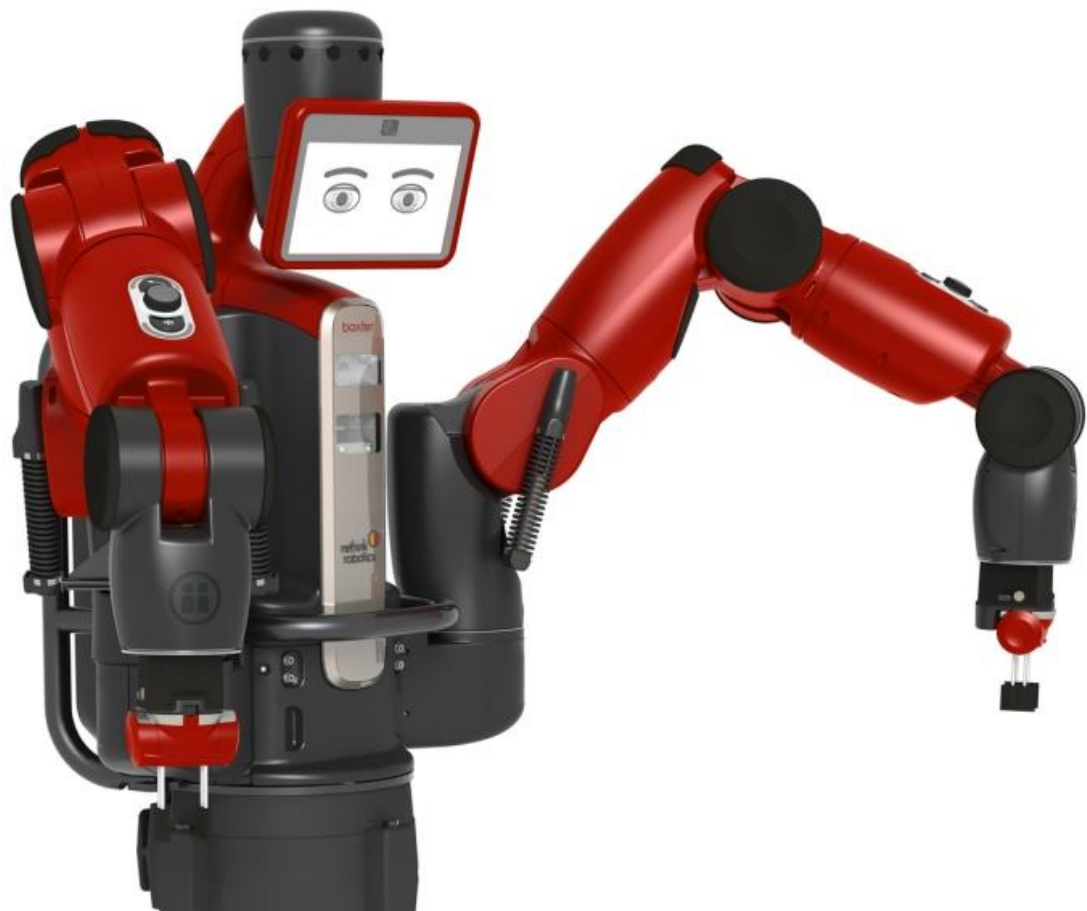
Who is Bram
 Stoker?

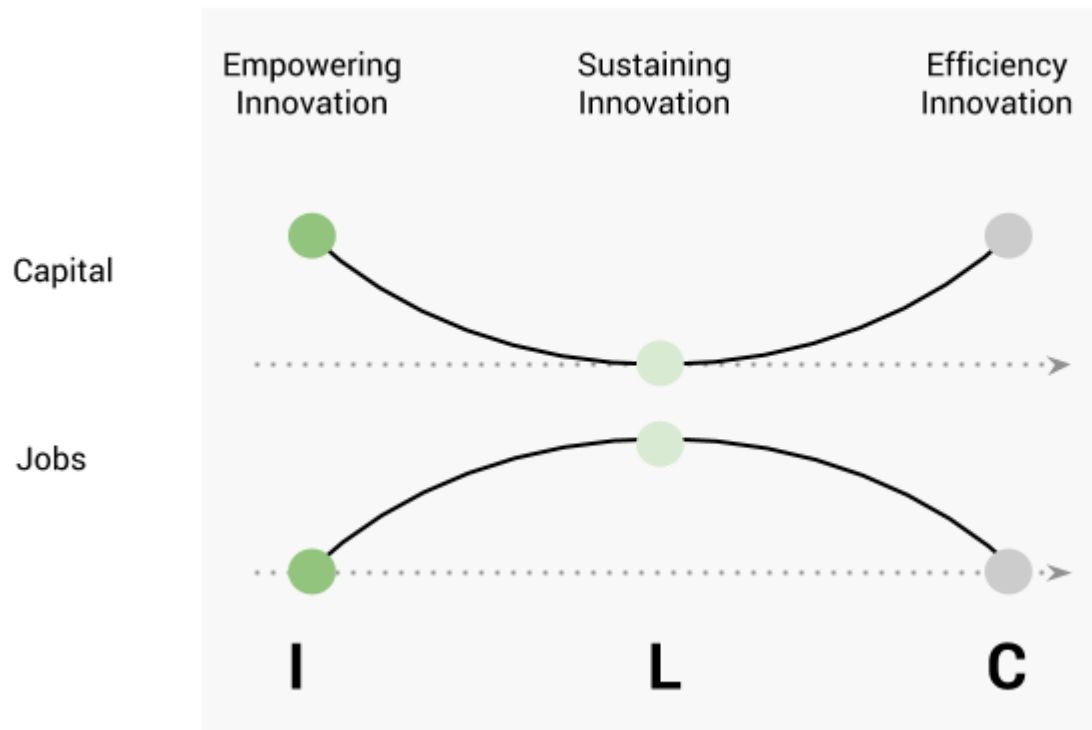
\$ 17,973

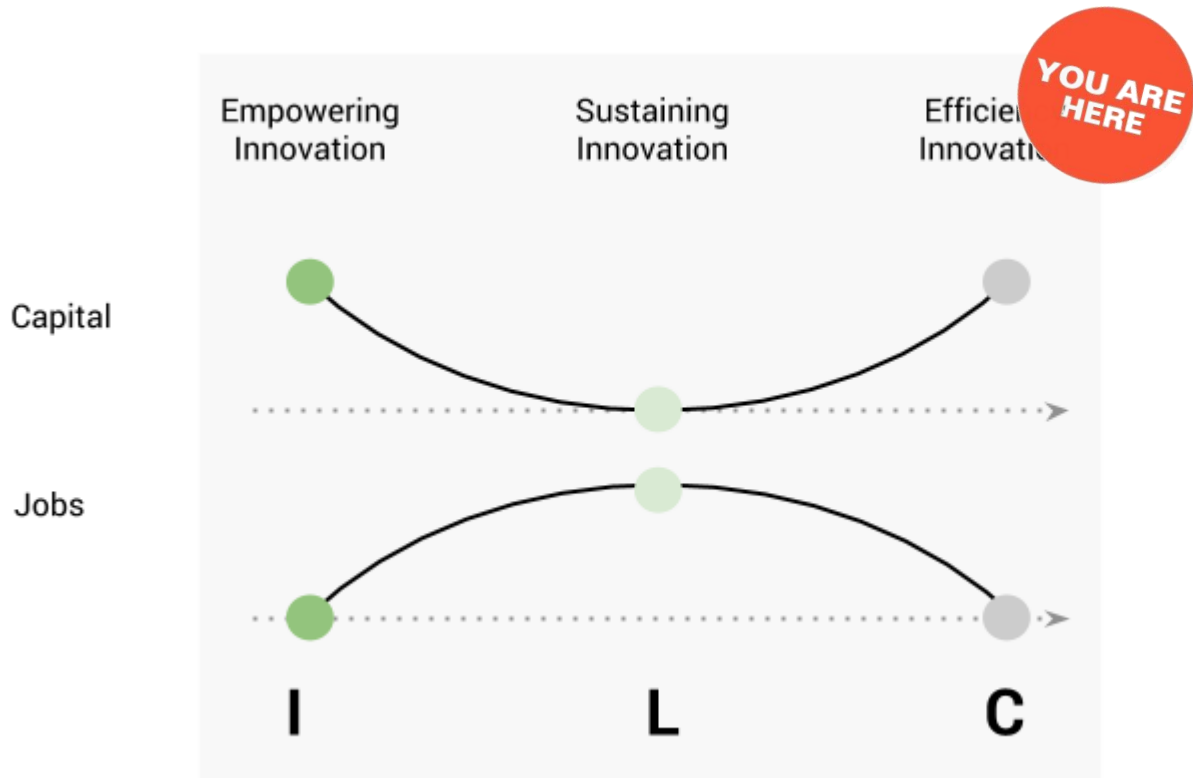
\$21,600

WHO IS
 BRAM STOKER?

\$5600















Stockholm riots leave Sweden's dreams of perfect society up in smoke

A week of disturbances in Sweden's capital has tested the Scandinavian nation's reputation for tolerance. reports Colin Freeman

THIS IS OUR COUNTRY
WE WILL OCCUPY IT
THESE ARE OUR STREETS
WE WILL OCCUPY THEM
WE ARE HERE. WE ARE GROWING.

WE ARE THE
99%

OCCUPY TOGETHER

#OccupyWallSt #OccupyTogether occupytogether.org occupywallst.org

The System Has Failed.



A N O N Y M O U S

[irc.anonops.li](irc://anonops.li)



March
2014

ipcc

INTERGOVERNMENTAL PANEL ON climate change

CLIMATE CHANGE 2014:

IMPACTS, ADAPTATION, AND VULNERABILITY





OP-ED CONTRIBUTOR
Rein In Shady Tax
Preparers

EDITORIAL
A Familiar Script in Ukraine



DAVID BROOKS
What Suffering Does



FRANK BRUNI
The Water Cooler Runs
Dry

SundayReview | OPINION

The Rise of Anti-Capitalism

By JEREMY RIFKIN MARCH 15, 2014

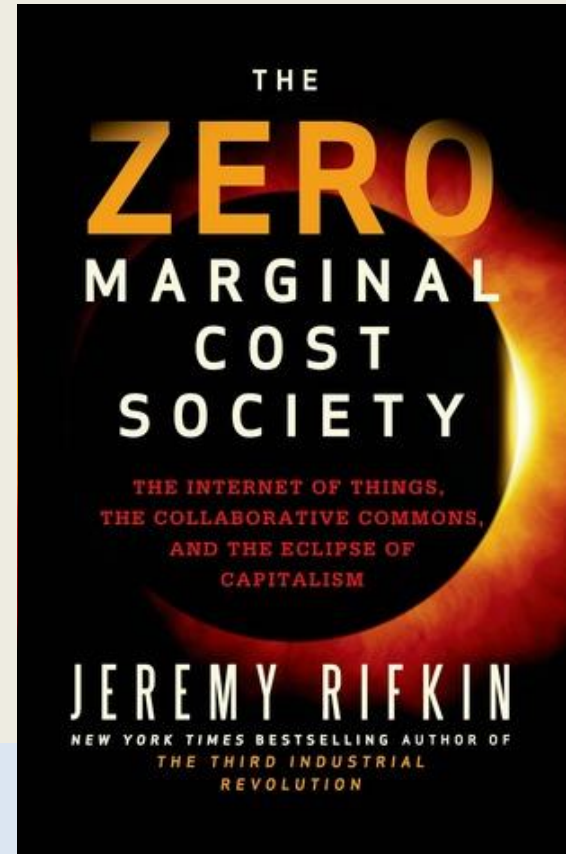


Zero marginal cost of
production

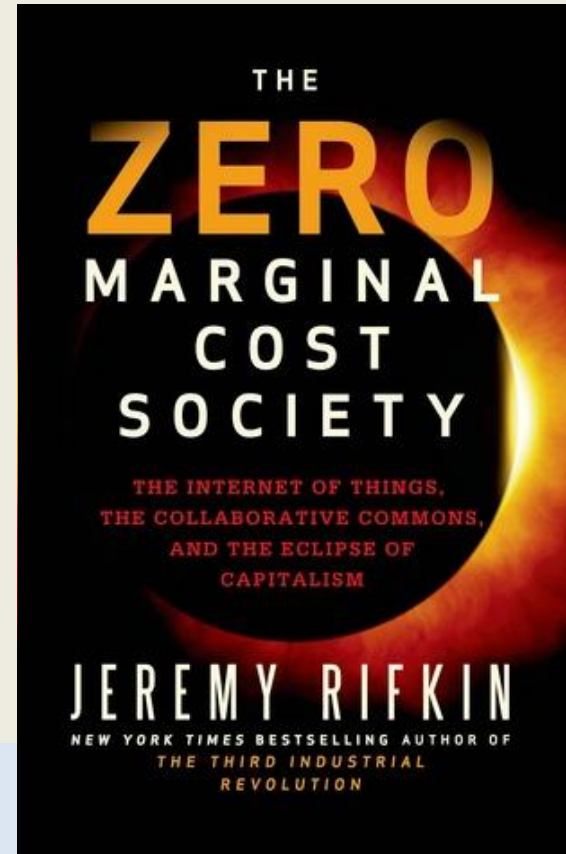
IoT

Open Data

Large Scale collaboration



“We are entering a world partly **beyond markets**, where we are learning how to live together in an increasingly interdependent, collaborative, global **commons**”



Openness is **resilience**



Capitalism 2.0

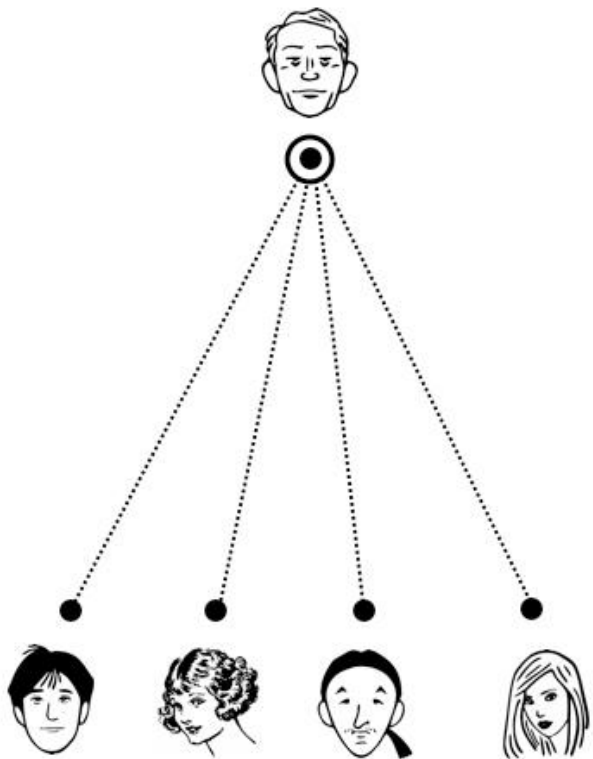


A diagram on a blue background. On the left, there are three white arrows pointing towards a central yellow circle. The top arrow points up and right, the middle arrow points left and right, and the bottom arrow points up and left. There are also two white circles: one at the top and one at the bottom, partially overlapping the arrows.

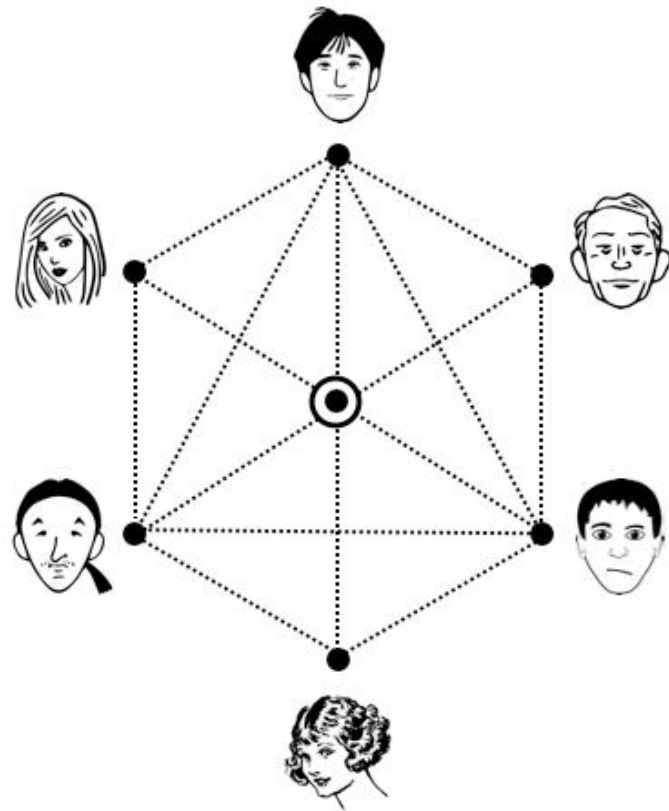
**Multi Stakeholder
businesses
Equitable
Profit Chains**



The Promises promessa

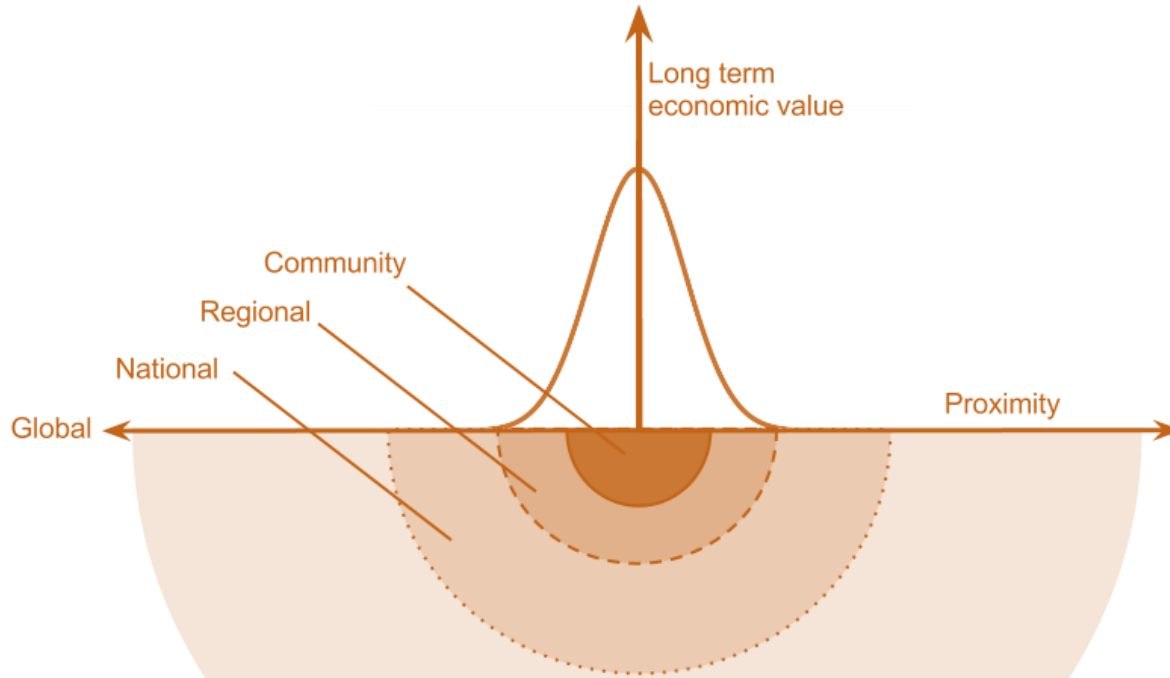


Closed Economies



Open Economies

Prosperity
Abundance



Local Value
Global Interactions

thanks!



Simone Cicero
 meedabyte