

creación y fabricación compartida, distribuida y abierta



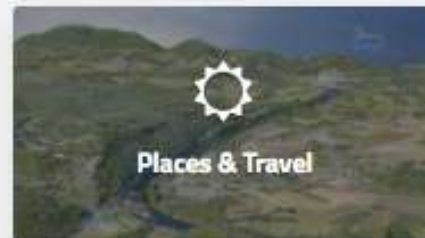
Manuel Martínez Torán, PhD

mmtoran@upv.es

FabLab VLC Director



PROYECTO COFINANCIADO POR LOS FONDOS FEDER, DENTRO DEL PROGRAMA OPERATIVO FEDER DE LA COMUNITAT VALENCIANA 2014-2020



OPENELECTRONICS

SOURCE ELECTRONIC PROJECTS

DON'T MISS

Microsoft tastes the raspberry Posted 2 months ago



Search site



8-channel Remote Control, Geared With A RF Shield

Geared with a shield containing an HCS Microchip encoder/receiver module and an I/O Expander PC-Bus...



OPINIONS

Happy Open Year! Top 10 OpenSource Projects

A new year started, leving behind a 2015 rich in...

Posted 1 month ago
1 Comment

What Is "Open Source"? What's "Open Hardware"? What Does It Mean To Be Open, And Above All, Why So?

It is undeniable that the 4th industrial revolution is sweeping...

Posted 2 months ago
0 Comments

Ways To Conserve Energy At Home

Being "Energy Efficient" at home isn't just for granola-eating...

Posted 4 months ago
0 Comments

Top 5 Wireless Ways To Communicate With Your Controller

One of the strongest trend we have seen this year...

Posted 12 months ago
7 Comments

PCB Recycling: The Core Of Your Electronics Is More Valuable Than You Think

The screen you are looking at this very moment will...

Posted 1 year ago
0 Comments

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OUR FULLY OPEN SOURCE PROJECTS



8-channel Remote Control, Geared With A RF Shield

Geared with a shield containing an HCS Microchip...

Posted 5 days ago
0 Comments



Fish'n Tweets

With this project we'll show a practical application...

Posted 2 weeks ago
0 Comments



Exploring The Open Source Ethernet Broadcaster

In this second and final post we will...

Posted 3 weeks ago
0 Comments



Fishino: Let's Look Inside The Features

In this second "episode" (here the first one), we...

Posted 4 weeks ago
0 Comments

INDUSTRY NEWS



Hexiwear - A Wearable Development Kit For The IoT Era

Create your own smartwatch, remote sensor tag, or sophisticated home controller with this small...

Posted 9 hours ago
0 Comments



ReactOS 0.4 Brings Open Source Windows Closer To Reality

The team behind ReactOS, an open-source reimplementation of Windows, released a new version that...

Posted 1 day ago
0 Comments



Google Opens Its Cloud Vision API To All Developers

After a short limited preview, Google today announced the public beta of its Cloud...

Posted 2 days ago
0 Comments

FABLAB VLC

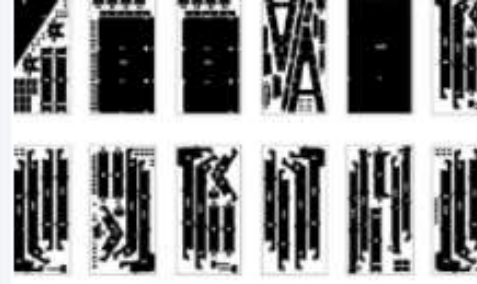
<http://contest.open-electronics.org/>

NEWSLETTER



Making Things in the Open

by Andy Reeve



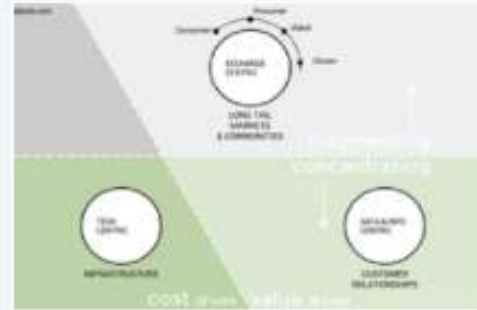
The dark matter of open making

by Indy Johar



Who will own the next Industrial Revolution?

by Alastair Parvin



The Future of Manufacturing

by Simone Cicero



The Drone Aviary



The Open Source Object

FABLAB  **VLC**

<https://openmaking.is>

PARTICIPATORY CITY

READ THE RESEARCH

WHAT IS 'PARTICIPATORY CULTURE'?

JOIN COLLECTIVE INVESTMENT FUND

WANT THIS WHERE YOU

Esta vez tenemos la intención de transformar toda una ciudad a través de la participación masiva en las actividades cotidianas micro.

We've discovered that many people want to live in a participatory city ... and we want to build it with them.

PARTICIPATE

FABLAB  VLC

<http://www.participatorycity.org/>

140 opportunities every week to make, share, repair, learn, grow, cook together with neighbours

35,000 opportunities to participate in everyday activities near you each year

10,000 people participating each week

600 commons- based projects for everyday life

Projects in 500 existing underused spaces

12 local kitchens for bulk cooking

6 Public Dry Stores for collective buying

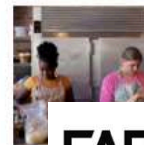
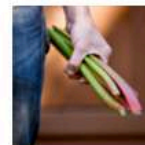
300 back garden greenhouses growing for open meal events

24 public tool sheds

25 new community businesses for fabrication, food and energy

32 mini local platforms

HELP MAKE THIS HAPPEN



FABLAB  **VLC**

<http://contest.open-electronics.org/>



Projects > [Eagle House Pop-Up Furniture Factory](#)



EAGLE HOUSE POP-UP FURNITURE FACTORY

This six-month pilot project offered training and employment for Knowle West residents – and produced nearly 500 pieces of new furniture.

In November 2014 Knowle West Media Centre launched a six-month programme of design, digital manufacture and construction: the Eagle House Pop-Up Furniture Factory. The factory was located on Newquay Road, within the former Eagle House Youth Centre which closed in 2014. It was leased and operated by KWMC, working in partnership with local social enterprise [rework](#).

The pilot programme grew out of research and experiences in our [Green & Digital Business Programme](#), which supported local people to set up their own small enterprises and make a living by doing what they love.

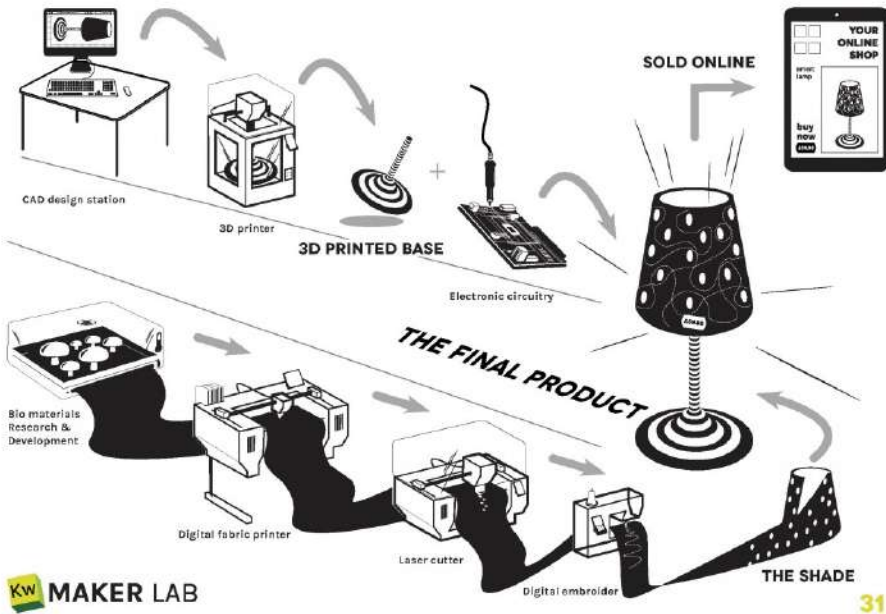
The latest Quality of Life survey by Bristol City Council (2013) reported that satisfaction with jobs is very low in the Filwood ward, at just 12%. The Furniture Factory hired two local residents as paid trainees and offered a range of volunteering opportunities. During the six months of the factory's operation, we were also able to offer a programme of workshops where people could learn about digital manufacturing techniques and try out the CNC router and laser cutter.

Eagle House Pop-Up Furniture Factory was commissioned to produce high-quality office furniture to kit out the [Filwood Green Business Park](#), which opened in May 2015. Over a six-month period, a team of artists and designers, including Hot Soup House and 00:/, worked with Knowle West residents to design, make and install nearly 500 pieces of wooden furniture. This included meeting tables, work desks, armchairs, and laptop bars, which can be adjusted and used as a standing workspace.

Some pieces were made from scratch using 'open source' designs, which were shared via the [Open Desk](#) platform. Others were 'upcycled' from the unused chipboard desks brought out of Council storage.

KWMC's lease of the Eagle House building ended in May 2015 and the community manufacturing enterprise moved into one of the business units at Filwood Green Business Park, where it is now open for commissions. But the story

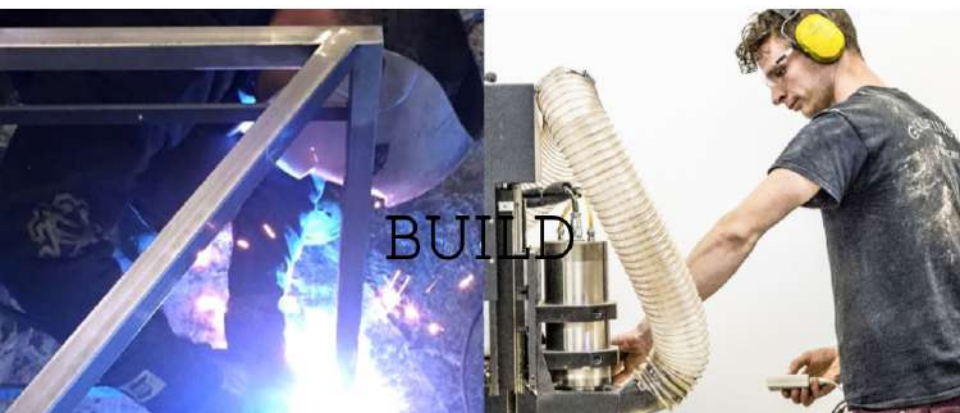




Bristol
MAKER LAB
 for everyone to make it

FABLAB  **VLC**

<http://kwmc.org.uk/>



BUILD



LEARN



EAT

OUT US BUILD SHOP LEARN EAT PRESS SUBSCRIBE CONTACT FACEBOOK



New Website Coming Soon!

EMPOWERING COMMUNITIES
TO TURN WASTE INTO GOLD

A SOCIAL ENTERPRISE CHANGING LIVES
THROUGH RE-USE & DESIGN

A FACTORY FOR INSPIRING OBJECTS AND INTERIORS
A PLATFORM FOR BEAUTIFUL LIFE CHANGES

Goldfinger Factory is a fabrication atelier and teaching platform centered around upcycling to create bespoke furniture and interiors, whilst helping artisans and artisans-in-the-making become self-sustaining through craft and in turn saving materials from landfill.

Goldfinger Factory, located on the ground floor of the iconic Trellick Tower in London's joint most deprived ward, combines a furniture showroom and a café space on one floor and a woodworking workshop and teaching academy underneath. We provide skills training and assist people in gaining or returning to employment as well as offering designers, makers and craftspeople a platform to develop and sell bespoke furniture and interiors.

Goldfinger Factory empowers communities to transform lives through craftsmanship and design.

FABLAB  VLC

<http://www.goldfingerfactory.com/>





CARVE THE WAY YOU WANT

Your needs are unique — your machine should be too.
Customize your machine from the ground up,
with all the parts you want, and none you don't.



Easy to Assemble



Fully Open Source



Upgrade Friendly

FABLAB  **VLC**

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

[Projects](#) > [Steven Paxman](#) > Simple engraved bow tie

Simple engraved bow tie

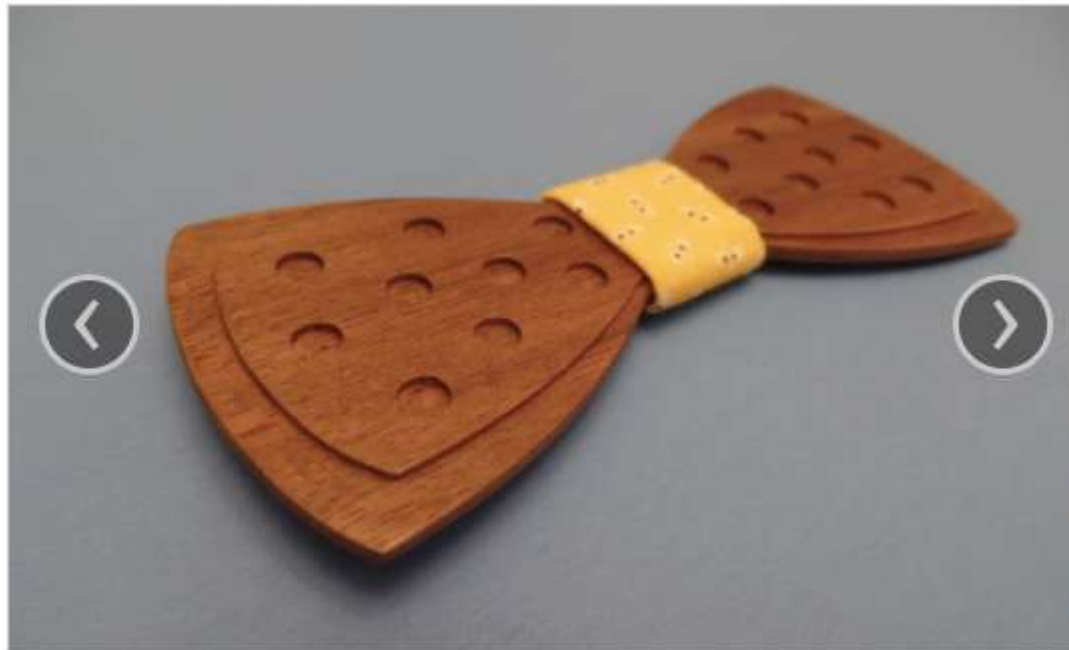
Overview

Bill of Materials

Instructions

Remakes

Comments



PROJECT BY

[Steven Paxman](#)

GENERAL INFORMATION

A simple engraved polka-dot bow tie made from 1/8" stock. This design simulates a polka-dot fabric style, but preserves the look of
by just



16 likes



70 opens



27 copies



2 comments

Make a computer

Play with code

SHOP NOW

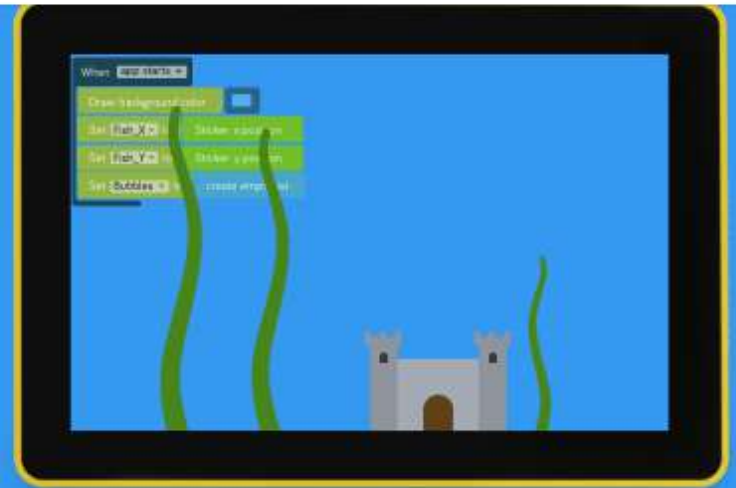
WATCH VIDEO ▶



"A way for anyone to stumble onto their affinity and passion for computer technology."

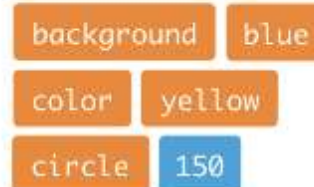
Steve Wozniak, Apple Cofounder.

Two time Kano Customer



Make

Follow a story
Build your own computer



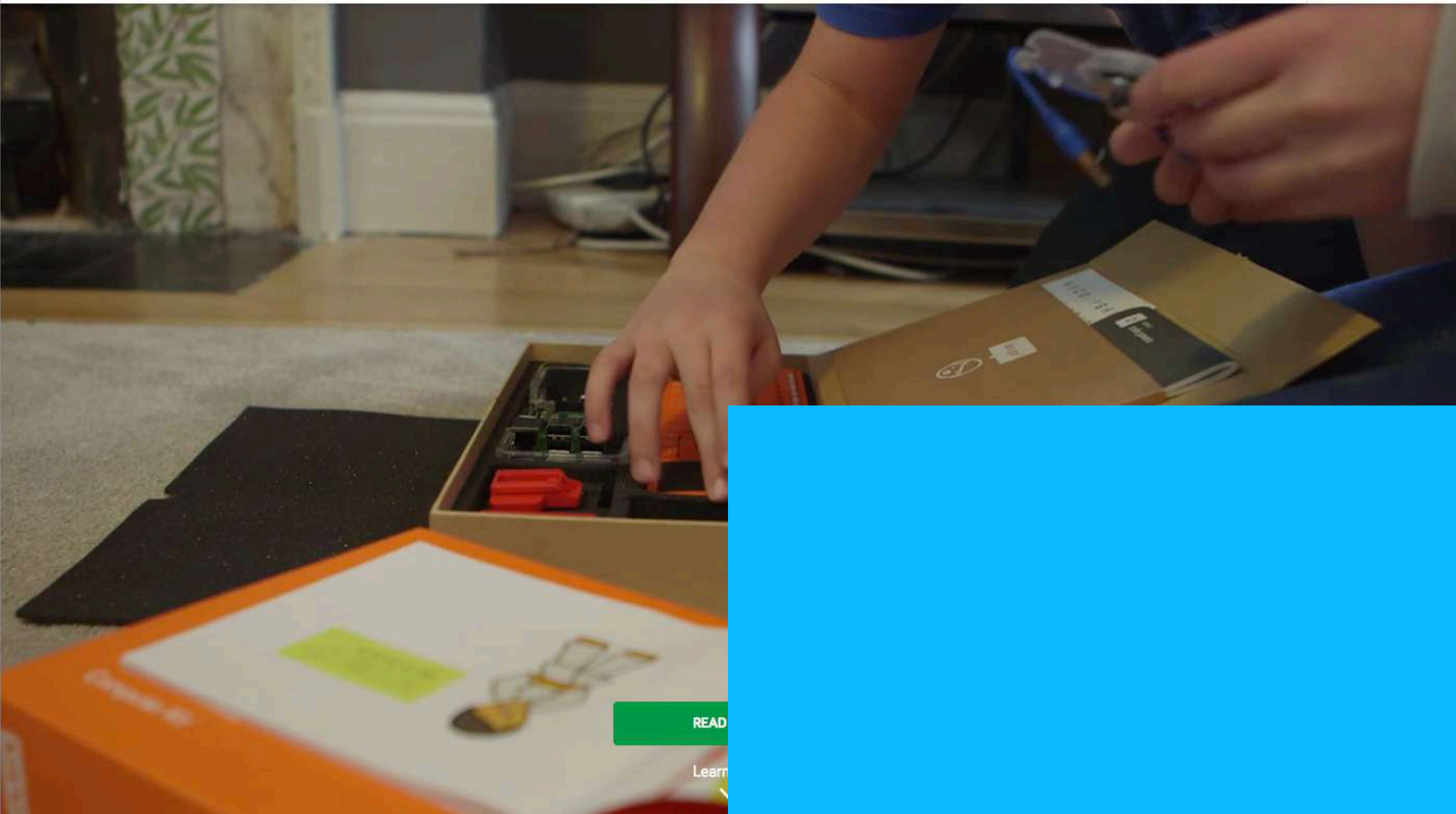
Learn

Learn to code
Simple steps to show you how



Play

M **FABLAB**  **VLC**





LABORATORIO DE FABRICACIÓN

Laboratorio de Fabricación

We make all of our machines!!

València, Valencia



FABLAB VLC

FablabValencia

Laboratorio de Fabricación Valencia UPV

València, Valencia



Laboratorio de Artesanía D...

Fabricación digital. Fresado CNC, Impresión 3D, Corte Láser.

San Pedro del Pinatar, Murcia



LaserLab 3D Reus


CNC, láser, 3D print & scan

Reus, Catalonia



ObjectPrint

3D print in Palma de Mallorca



Beach Lab

Fab Lab Sitges

Digital fabrication facility participant in MIT's Center for Bits and Atoms Fab Lab Network



3Designing

La impresora 3D de los que no tienen impresora 3D



AttA

co an

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Make Works

Pick region



Choose your region to search or browse

Find local manufacturers

Use Make Works to source local fabricators,
material suppliers & workshop facilities.

Explore Scotland

Explore Birmingham

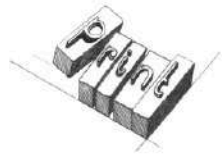
or get inspired with roulette

An open resource for sourcing local
manufacturing and materials

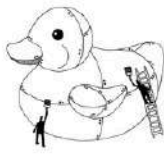
Start a Make Works

FABLAB  VLC

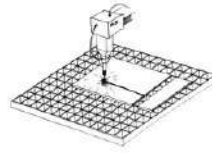
<https://make.works/>



Process
Printing
Process of Pressing Ink onto Material, Using a Printing Press, Wood Block, Engraving, Offsetting or Other Methods



Process
Artist Fabrication
A Variety of Techniques Used to Create Bespoke Artwork



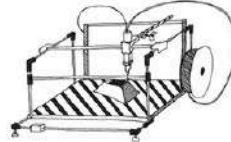
Process
Laser Cutting
Use of Laser to Cut Materials, including Metal, Glass, Wood and Other



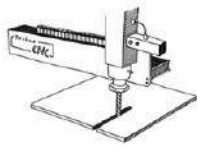
Process
Casting
Die Casting, Metal Casting, Lost Wax Casting, Sand Casting and more



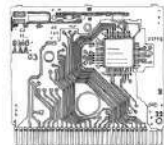
Process
Weaving
Digital, machine and hand weaving, warping and more



Process
3D Printing
The production of three dimensional objects from a digital model, typically through laying down many layers of material



Process
CNC Machining
CNC Milling, Routing, CAM Programming and Cutting, et cetera



Process
Electronics
Production and assembly of circuit boards, cables and components



Process
Glass Working
Processes of Manipulating Glass, Includes Hot and Cold Work, Glass Cutting, Carving, Glassblowing, Fusing and Leaching



Process
Jewellery Making
Production of Jewellery, including Stone Setting, Plating, Casting and Working with Precious Metals



Process
Model Making
Architectural Scale Model Making, Wax Modelling, QFD and Prop Making



Process
Stone Working
Masonry, Stone Carving, Lettering, Polishing and Stone Cutting



Choose your region to search or browse



Dundee

Highlands

Scottish Borders

Galloway

Aberdeen

Is

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<https://make.works/>



We are MAKERS interested in the new field of OPEN DESIGN in all its facets, from physical HARDWARE to fabbing & from digital ART to DATA visualisation.



Open Design Definition workshop at...

At the recent OKFestival in Berlin, where over 1,000 open-everything enthusiasts and experts gathered for 3 days in the charming Kulturbrauerei...



It's Hardware Freedom Day on Saturday —...

On Saturday, March 15 2014, it is Hardware Freedom Day – a yearly celebration of Open Hardware! Every year since 2004 hundreds of teams have...



Introducing our project for Burning...

Members of the Open Design & Hardware Working Group have been working these last few months on putting together a project proposal for the...



Fabfuse 2013 on Grassroots...

Last summer over 50 people from across the globe gathered at the FabLab Amersfoort in the Netherlands for the first Grassroots FabLab...

Join the Open Design + Hardware group:

With thanks to



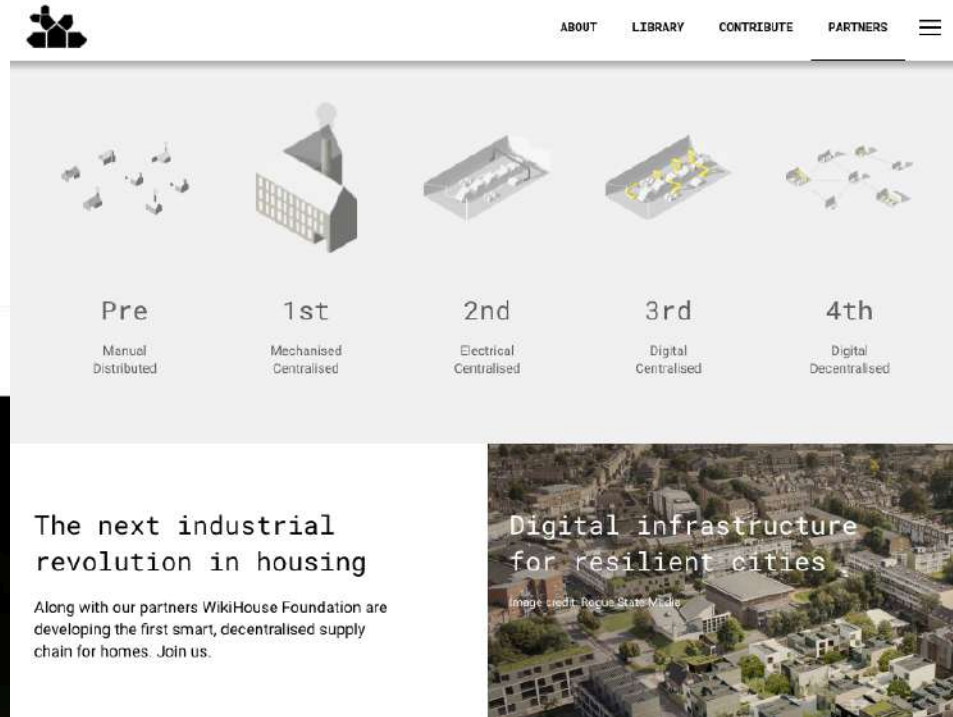
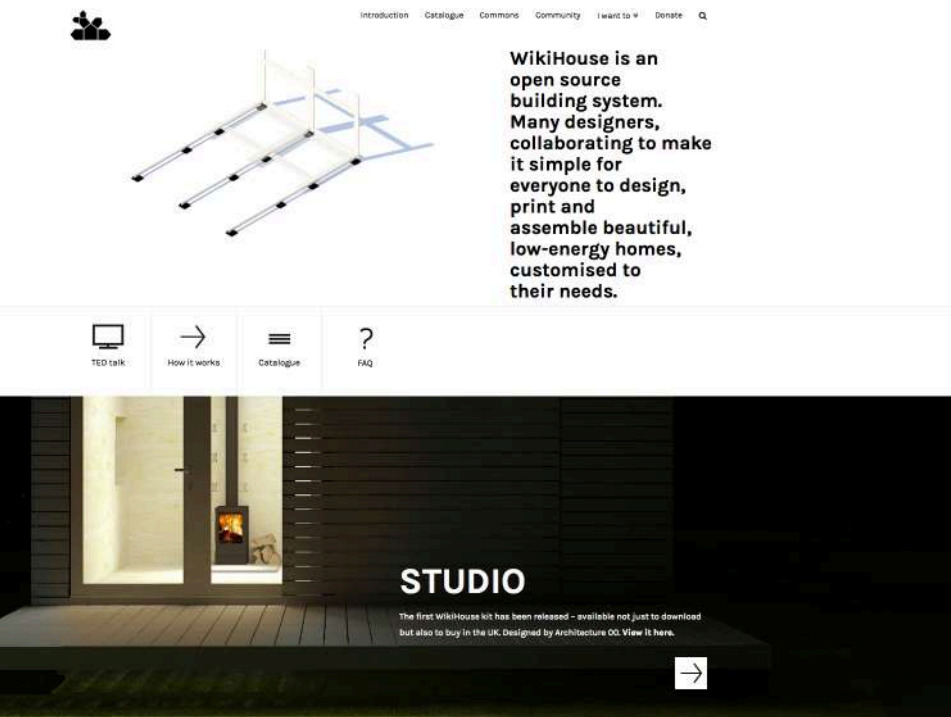
IN COLLABORATION WITH
Aalto Media Factory

Site License



FABLAB  **VLC**

<https://design.okfn.org/>





Share global, manufacture local

'It is easier to ship recipes than cakes and biscuits' - John Maynard Keynes



Design to lower thresholds

Design to lower barriers of time, cost, skill, energy and resources at every stage. Elvis Costello wrote all his songs to be played on the cheapest transistor radio.



Open standards

Where possible, work to existing standards or seek to establish intuitive new ones.



Human friendly

Seek to preserve and maximise the safety, security, health and wellbeing (physical and mental) of all participants at every stage of a product's life.



Modular

Design hardware and software that is robust, interoperable, product-agnostic and flexible, so elements can be independently altered, substituted or upgraded.



The new 'normal'

Avoid design which would be considered 'alternative', 'boutique' or only for the rich or poor. Instead, design for the new normal: products most people would consider desirable and affordable. As beautiful as Apple, as open as Linux.



Whole life design

'A home is not something you finish' - Stewart Brand Design for the entire life-cycle of the product, from manufacturing to assembly, use, maintenance, adaptation, disassembly and re-use.



If you can't mend it, you don't own it.

Try to avoid 'black box' products. Try to make it easy for the user to learn how it works.



Be lazy like a fox

Don't keep reinventing the wheel. Take something that already works, copy, adapt, give credit and re-share. (Thanks Linux Torvalds via Eric S Raymond)



Share and make shareable

Publish your work under an open source sharealike licence, documented and codified so as to make it as easy as possible for others to understand, modify, improve, distribute and use it, including commercially.



Open materials

Design for cheap, abundant, standardised, sustainable, and, ideally, circular materials.



Start somewhere

No one can solve everyone's problems. Design something that works where you are, then share so others can adapt it for their own economy, climate and culture. Let solutions adapt like Darwin's finches.



Include, keep including

Look for ways in which age, race, gender or disability might be barriers, and try to design them out. Try to design products, processes and documents that are accessible, intuitive and non-discriminatory.



Mistake proof

Make it impossible to get wrong, or not matter if you do. (The Japanese call this 'Poka-Yoko')



Superpower the users

'Give power to the fine tuners' - Cedric Price. Afford as much power as possible to the end users, from procurement to privacy to electricity. Democracy is a design diagram.



ABOUT



Types

Ready-designed standard building layouts, combining a number of technologies into a whole building design which can be adapted to fit different users and sites.



Technologies

Open technologies and systems that can make up sub-components of an overall building.



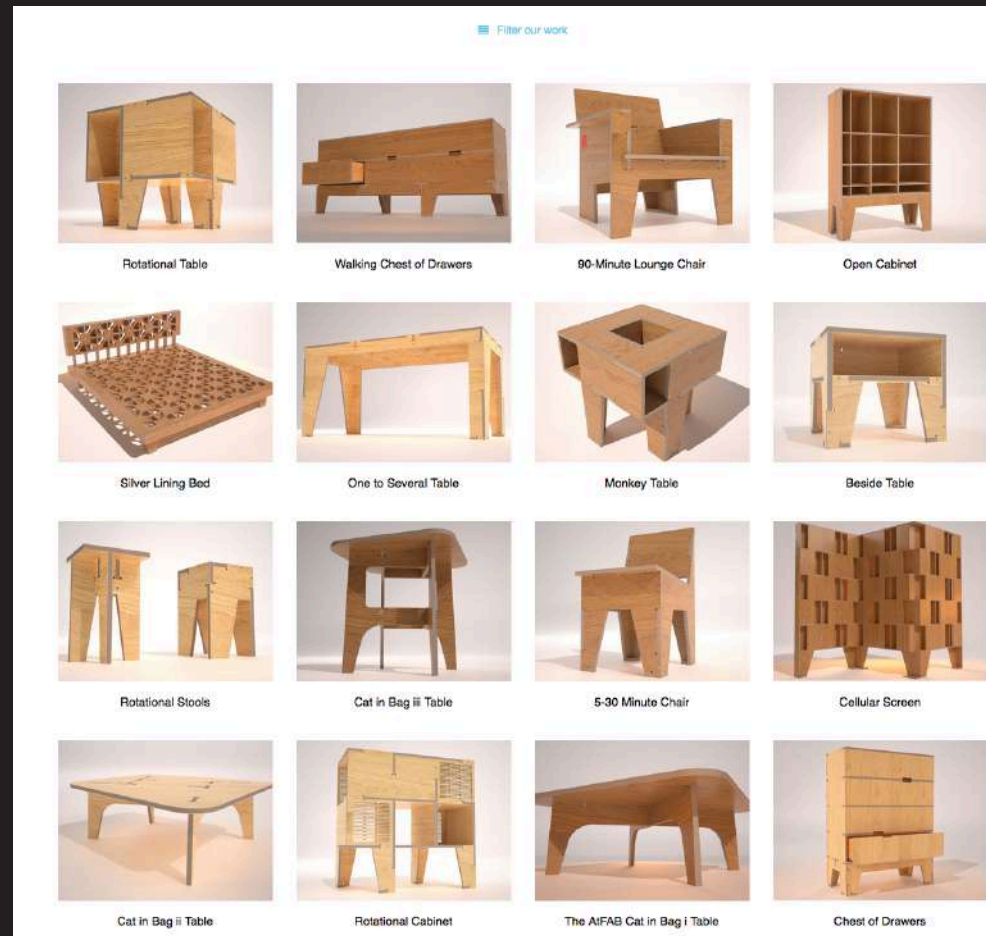
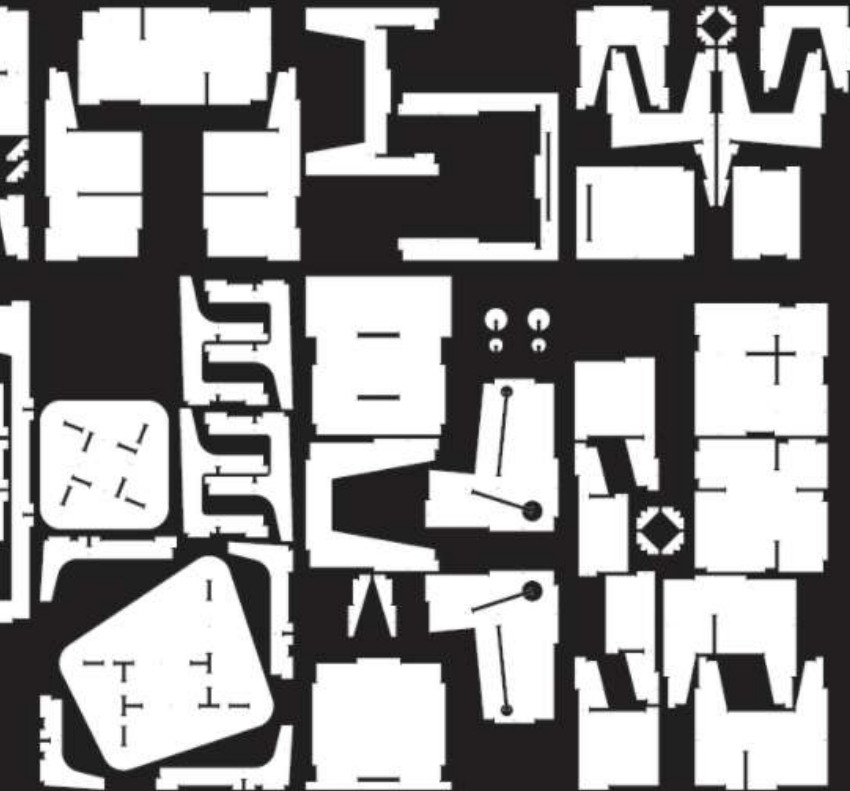
Tools

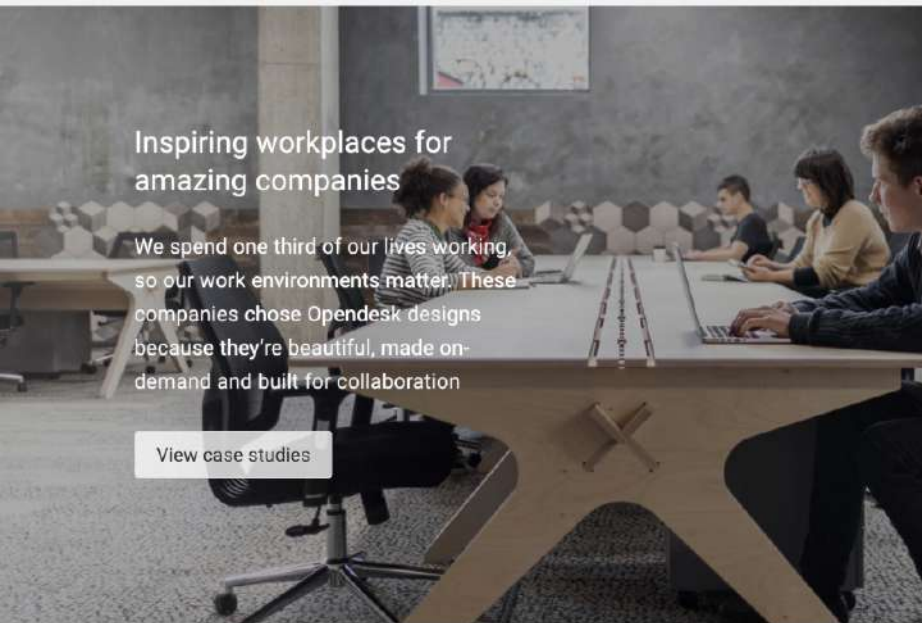
Open source tools for the manufacture or assembly of homes.



Project Folders

A repository of known projects by WikiHouse Contributors shared under the WikiHouse Terms of Use. If you have completed a project and would like to share your files, contact us.




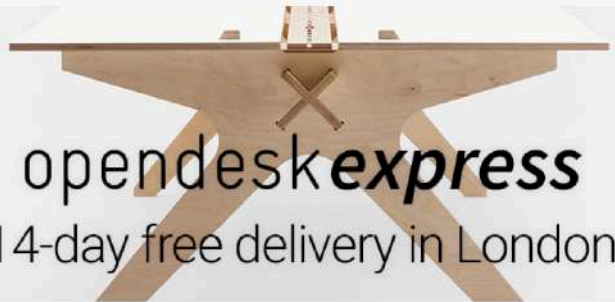


Inspiring workplaces for
amazing companies

We spend one third of our lives working,
so our work environments matter. These
companies chose Opendesk designs
because they're beautiful, made on-
demand and built for collaboration

[View case studies](#)

 [Furniture](#) [Workspaces](#) [Open Making](#) [Blog](#) [Basket](#) [Your dashboard](#)



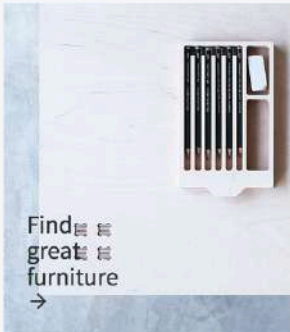
opendesk *express*









14-day free delivery in London

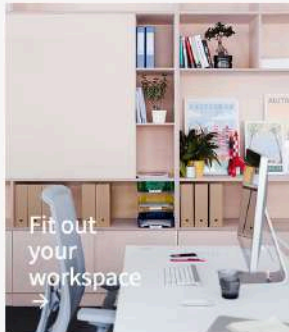
A different approach to design furniture

Designed to be downloaded and made locally, Opendesk furniture is fast, affordable, sustainable and made on demand, just for you.


[Explore furniture >](#)



Find    
great    
furniture
→



Fit out
your
workspace
→



Opendesk
express
service
→

Opendesk uses cookies. By continuing to browse the site you're agreeing to this.

[OK, Thanks](#)

Connecting you directly with **designers and makers**



Denis Fuzii published the **Valovi Chair** from his studio in São Paulo.

His designs have been downloaded over 5,000 times in 95 countries.

[Join as a designer »](#)

Makers
get paid work



You

get great furniture

Building a new model of open making



Discover makers near you
Find digital fabricators to work with »



Explore the design studio
Share and vote on up-and-coming designs »



Enter the global workshop
Check out OpenDesks being made in the wild »

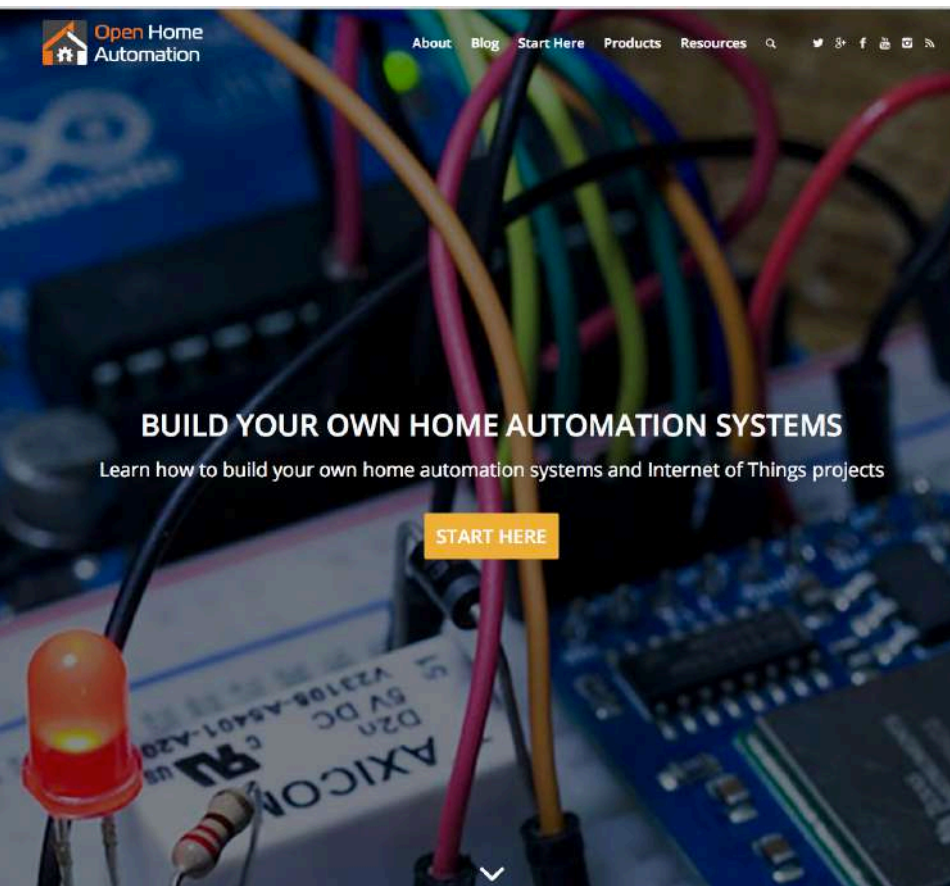
All around the world ...



OK, Thanks

FABLAB  VLC

<https://www.opendesk.cc/>

The banner features a close-up photograph of electronic components, including a blue printed circuit board (PCB) with various chips and a red LED light. Several colorful jumper wires (red, yellow, green, blue, black) are connected to the board. The text is overlaid on the left side of the image.

Open Home Automation

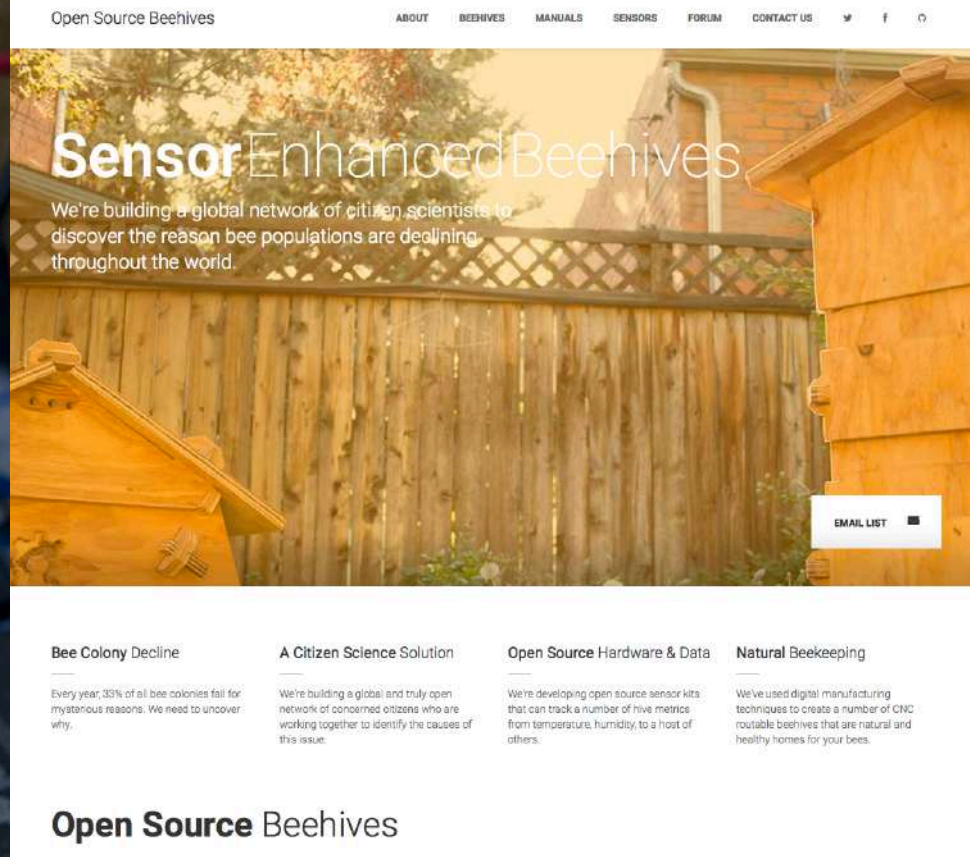
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BUILD YOUR OWN HOME AUTOMATION SYSTEMS

Learn how to build your own home automation systems and Internet of Things projects

[START HERE](#)

⌵


The banner features a photograph of a wooden beehive in a garden setting, with a wooden fence and trees in the background. The text is overlaid on the left side of the image.

Open Source Beehives

[ABOUT](#) [BEEHIVES](#) [MANUALS](#) [SENSORS](#) [FORUM](#) [CONTACT US](#) [Twitter](#) [Facebook](#) [RSS](#)

Sensor Enhanced Beehives

We're building a global network of citizen scientists to discover the reason bee populations are declining throughout the world.

[EMAIL LIST](#) 

Bee Colony Decline

Every year, 35% of all bee colonies fail for mysterious reasons. We need to uncover why.

A Citizen Science Solution

We're building a global and truly open network of concerned citizens who are working together to identify the causes of this issue.

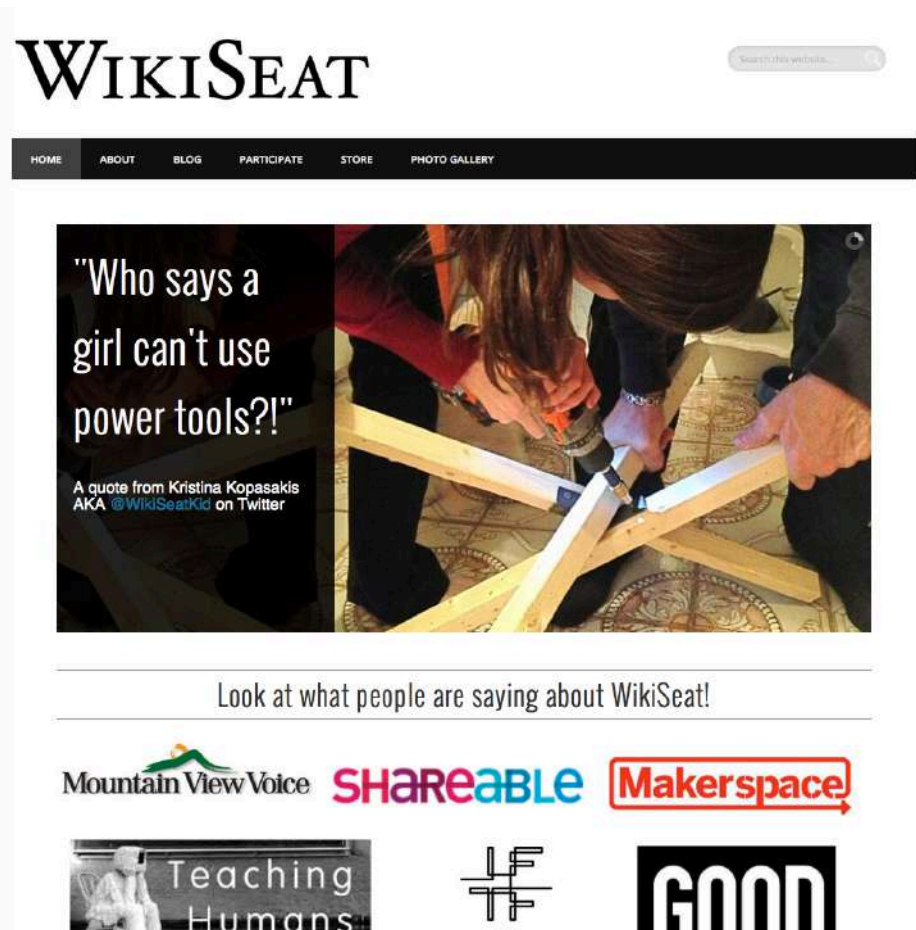
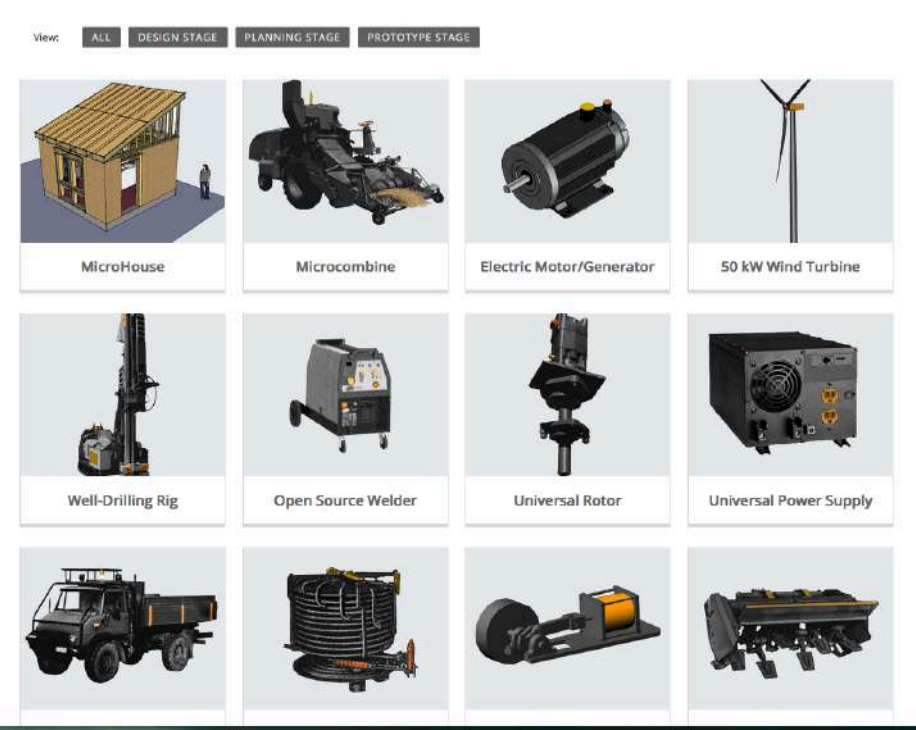
Open Source Hardware & Data

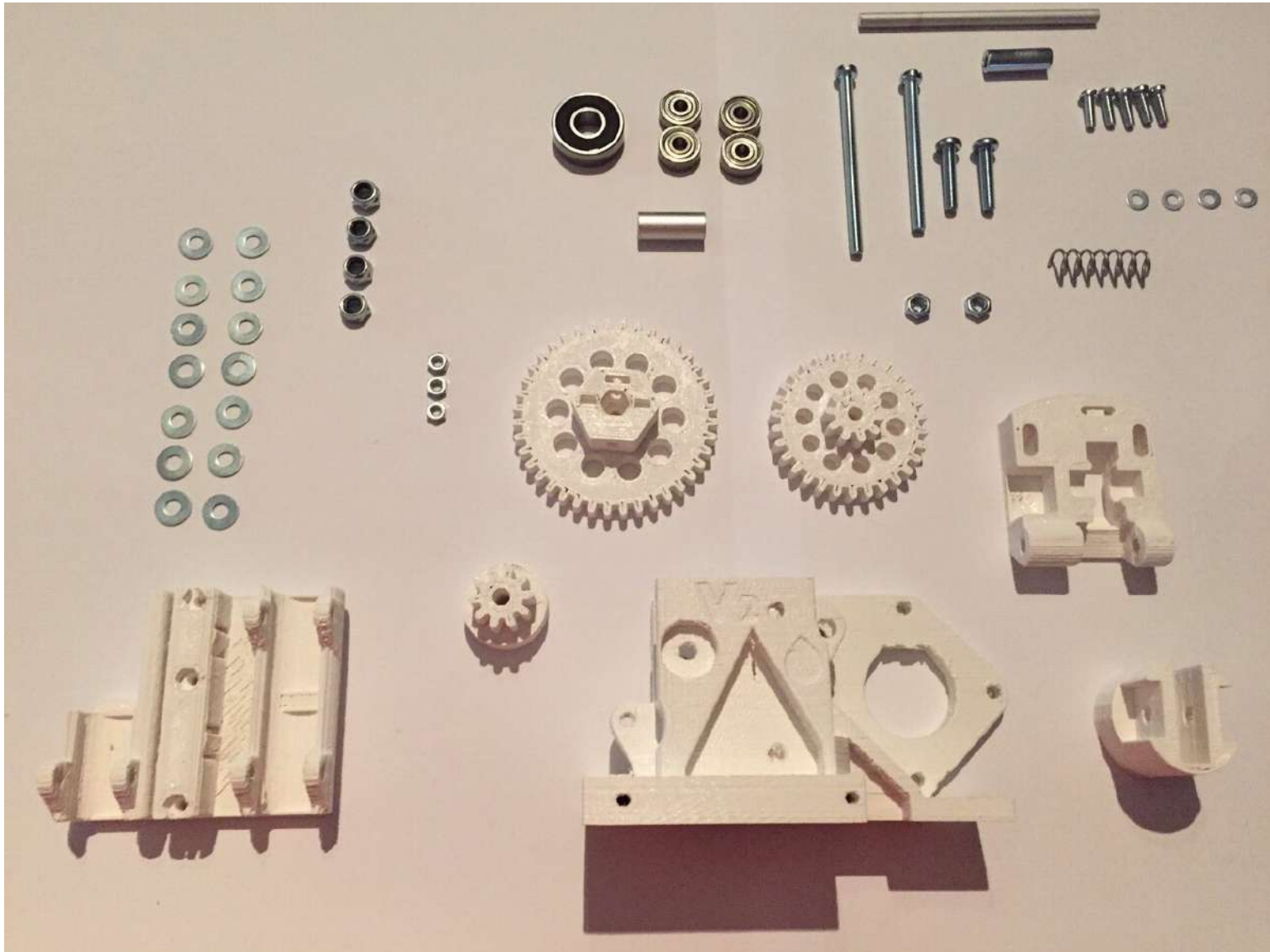
We're developing open source sensor kits that can track a number of hive metrics from temperature, humidity, to a host of others.

Natural Beekeeping

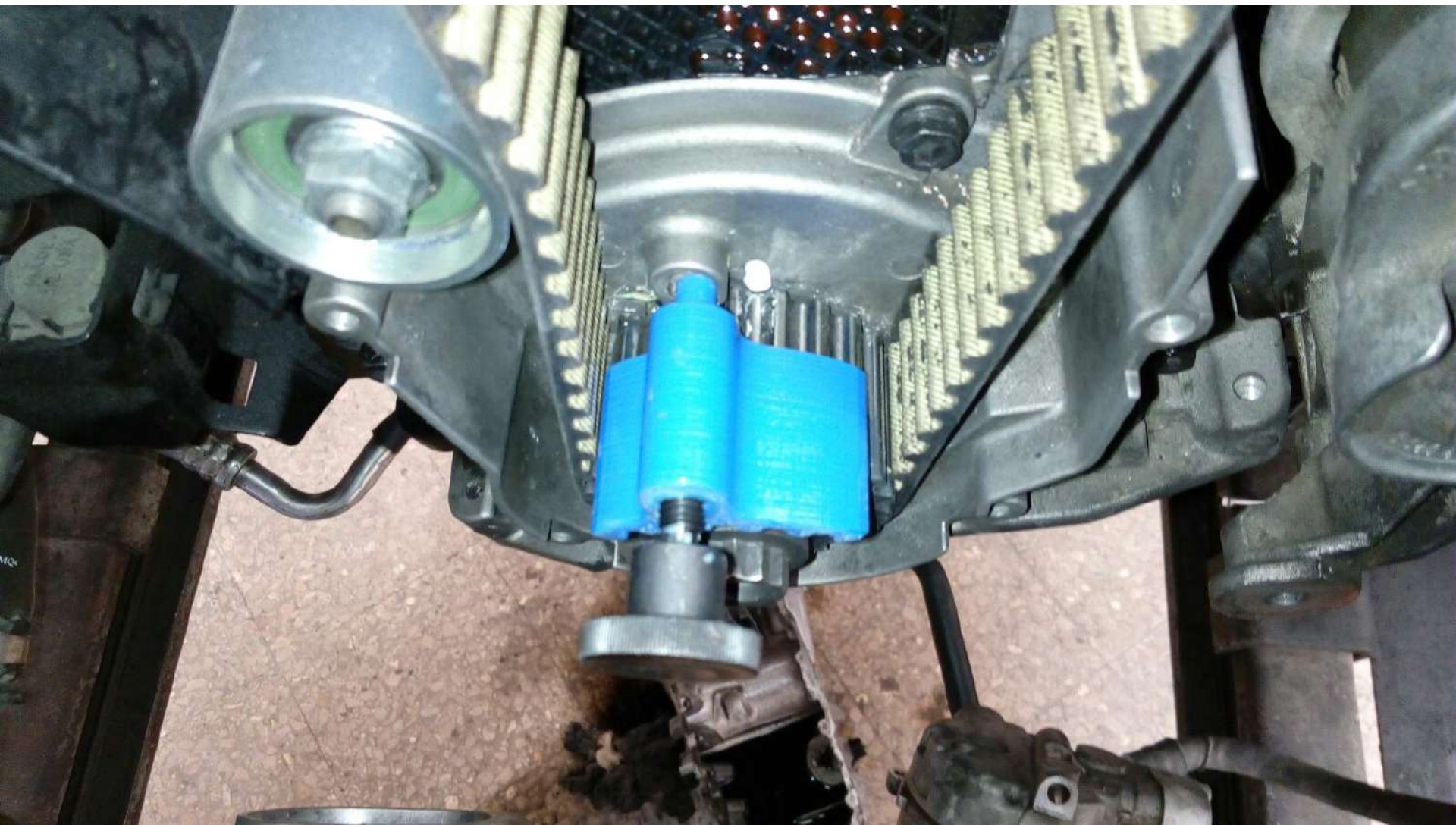
We've used digital manufacturing techniques to create a number of CNC routable beehives that are natural and healthy homes for your bees.

Open Source Beehives









conclusiones por hoy

- Ya no hay barreras para construir las cosas
- Herramientas de creación son más amigables
- Hay mayor integración de todos los sistemas
- Hemos pasado la barrera de lo digital a lo analógico y viceversa
- Los diseños son en abierto y es otra forma de hacer negocio
- Compartir y disponer de recursos en abierto generan I+D+i
- Corriente open que impregna a la industria y a los servicios
- Se está formando talento desde los más jóvenes
- El proyecto es interdisciplinar, es colaborativo
- Tenemos ejemplos ya de producción colaborativa y compartida
- Plataformas y hubs de producción local (glocales)
- Se ha roto la brecha digital a nivel productivo para el ciudadano
- Los diseños tendrán que ser participativos

creación y fabricación compartida, distribuida y abierta



Manuel Martínez Torán, PhD

mmtoran@upv.es

FabLab VLC Director