

Benjamin Tincq

 @btincq



OPEN SOURCING SUSTAINABILITY

Make:

technology on your time

Build This
Cigar Box
Guitar!
page 76 »



YOUR DESKTOP FACTORY

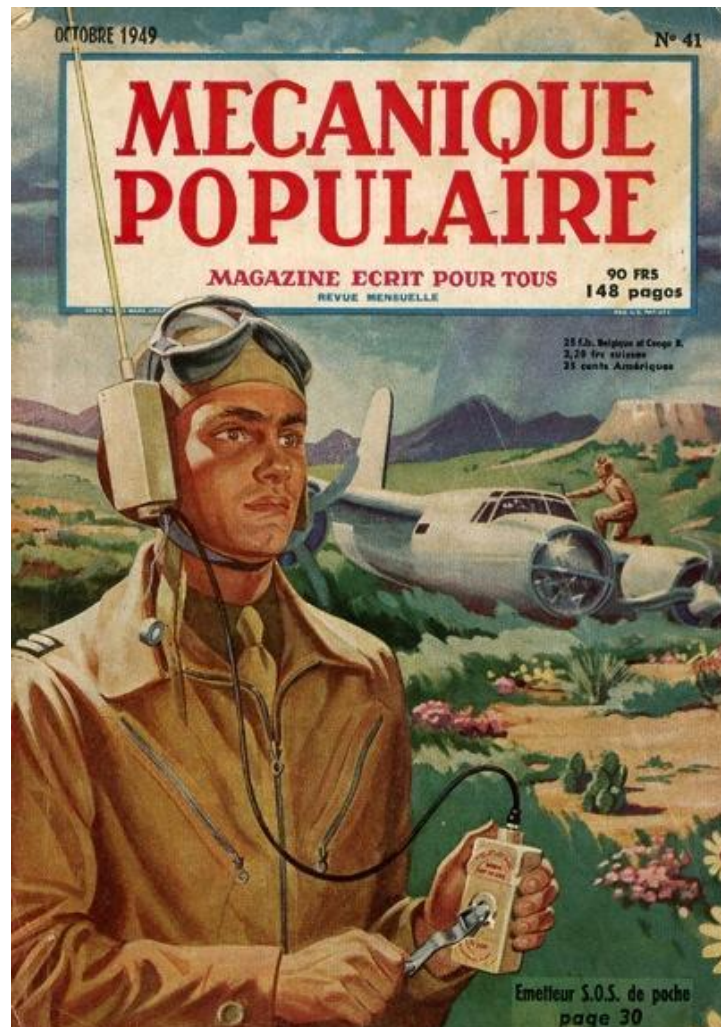
3D Manufacturing
at Home

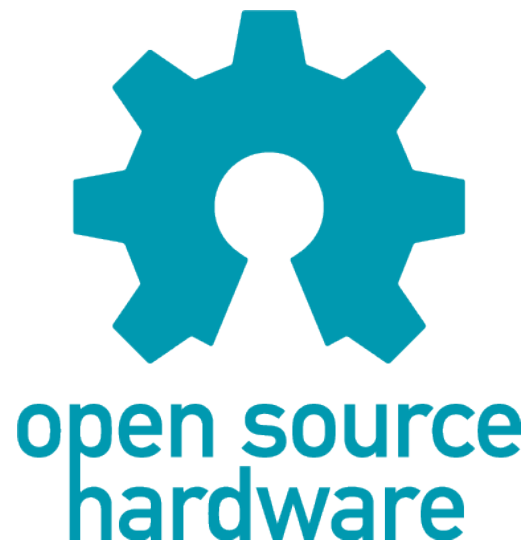
» SPECIAL SECTION
BEGINS ON PAGE 45

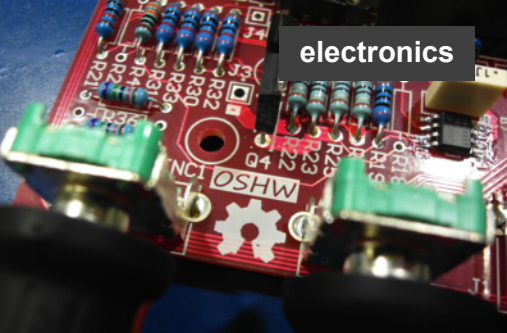
21.
PROJECTS
YOU CAN DO

» PUSH-BUTTON
SPEED GAME,
PADDED SWORDS,
MAGIC PHOTO CUBE,
SNOW GUN & MORE

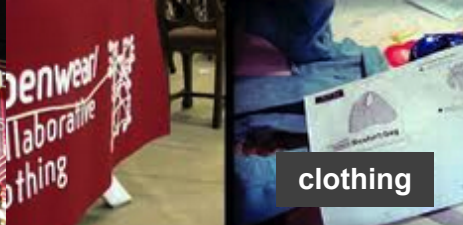
Bre Pettis &
the MakerBot
CupCake CNC
3D Printer
» PAGE 46







electronics



clothing



agriculture



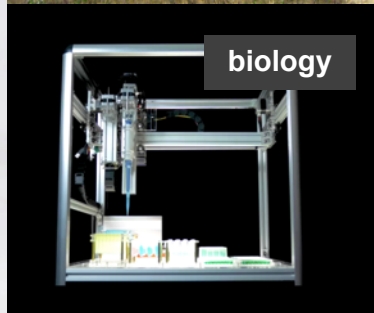
cameras



furniture



machine tools



biology



architecture



bikes



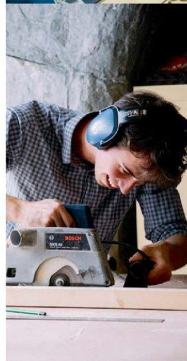
energy



cars



aerospace



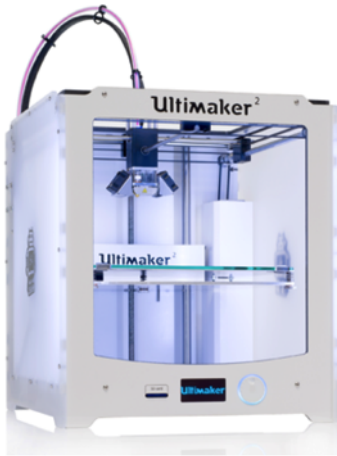
Camille Bosqué
Ophelia Noor
Laurent Ricard

FABLABS, ETC.

*Les nouveaux lieux
de fabrication
numérique*



EYROLLES



3D Printing




Laser Cutting




CNC Milling




 Citilab Cornella
Citizen innovation


 Can Batllo
Advanced 3d Print


 Les Corts
Accessibility


 Vallvidrera
Theater and arts

 El Raval
Music and artisans


 Gracia
Textiles

 MOB Eixample
Design and art

 Green Fab Lab
Self-Sufficiency

 Horta
Water and energy

 Sant Andreu
Mobility and cycling

 Ciutat Meridiana
Urban renewal

 Santa Coloma
Furniture

 Fab Lab Barcelona
Smart Cities

From

PITO

Product In → Trash Out

To

DIDO

Data In → Data Out

BARCELONA

GLOBALMENT CONNECTADA, LOCALMENT AUTOSUFICIENT
GLOBALLY CONNECTED, LOCALLY SELF-SUFFICIENT

39 229 20 43 24

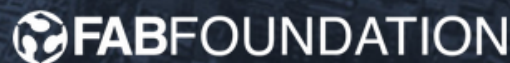
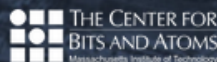
ANYS/YEARS

DIES/DAYS

HORES/HOURS

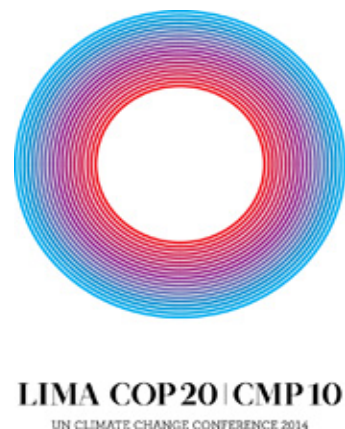
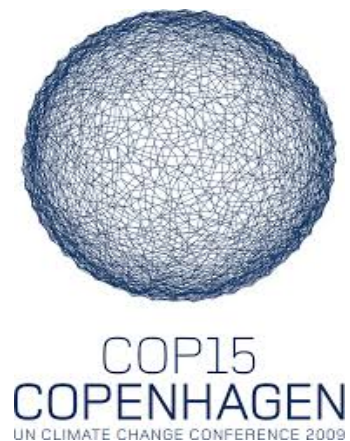
MINUTS/MINUTES

SEGONS/SECONDS



“ Either we will change our ways and build an entirely new kind of global society, or they will be changed for us. ”

(Blue planet price winners)



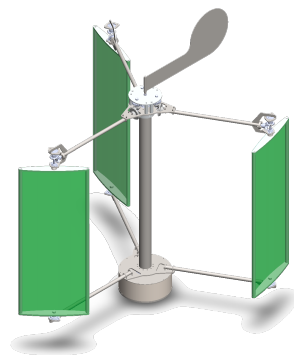
FROM PROTEST TO PROTOTYPES

OPEN SOURCE
ENERGY



Piggott Wind Turbine : wind turbine for personal or small community use. Created by Hugh Piggott.

image by Hugh Piggott



Urbolienne, une nouvelle éolienne open source en ville

Publié le 19 janvier 2015 par [Carine Claude](#) (english)

L'Urbolienne, première micro-éolienne urbaine open source, pourrait bientôt changer la donne en matière d'énergies renouvelables domestiques.

Après les champs d'éoliennes offshore et les hélices sur les crêtes, place aux toitures des immeubles ! L'éolien urbain pourrait enfin gagner des points dans la course aux énergies renouvelables domestiques. L'Urbolienne, prototype de micro-éolienne développé par le bureau d'études français AeroSeed, génère de l'énergie sur des sites où le vent est irrégulier et change souvent de direction, ce qui est le cas en ville. Une innovation qui change la donne. A la différence du solaire qui colonise les maisons particulières depuis longtemps, l'éolien domestique est souvent boudé en raison de son coût élevé, de son manque de rentabilité et de l'irrégularité de sa production d'énergie lors de vents aléatoires, systématiques en zone urbaine.



GoSol

Solar Energy for All



Bio-photovoltaic solar panel using bacteria to produce electricity. Created by the Valldaura Green Fab Lab in Barcelona.



emonGLCD

POWER NOW:

339W

ENERGY TODAY: 0.0kWh

12.3C MIN 12C
MAX 12C

13:42

Open Energy Monitor : end-to-end open source energy monitoring system
to help citizens relate to the challenges of sustainable energy

OPEN SOURCE
HOUSING



Wikihouse open source construction system : print your own high-performance, low-energy house.

image by WikiHouse Foundation CC BY ND

Micro-bio-architecture - mushrooms take the shape of structures modeled in reclaimed cardboard and harden into resilient building. Created by the Valldaura Green Fab Lab in Barcelona



OPEN SOURCE

MOBILITY



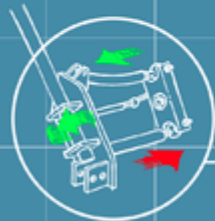
Prototype 1

A minimalist electric vehicle made of aluminum and carbon fiber for low cost mobility. It features 100 km/hr top speed, 100 km range and 1000 miles per gallon efficiency. It is designed for distributed fabrication at a cost of \$4,000 in kit.

Smartphone

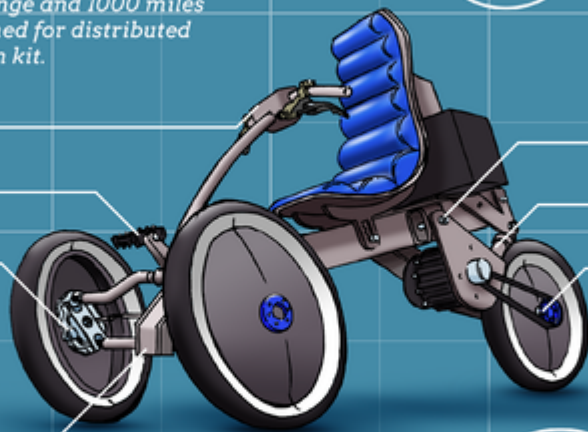
Pedal

Brake Pad



Tilting Mechanism:

Allows for safe, fast and fun turning around corners.



Energy Pack:

Unplug and charge the battery anywhere and add lithium ion cells to extend your range.



Pivot

Shock Absorber

Rear Train

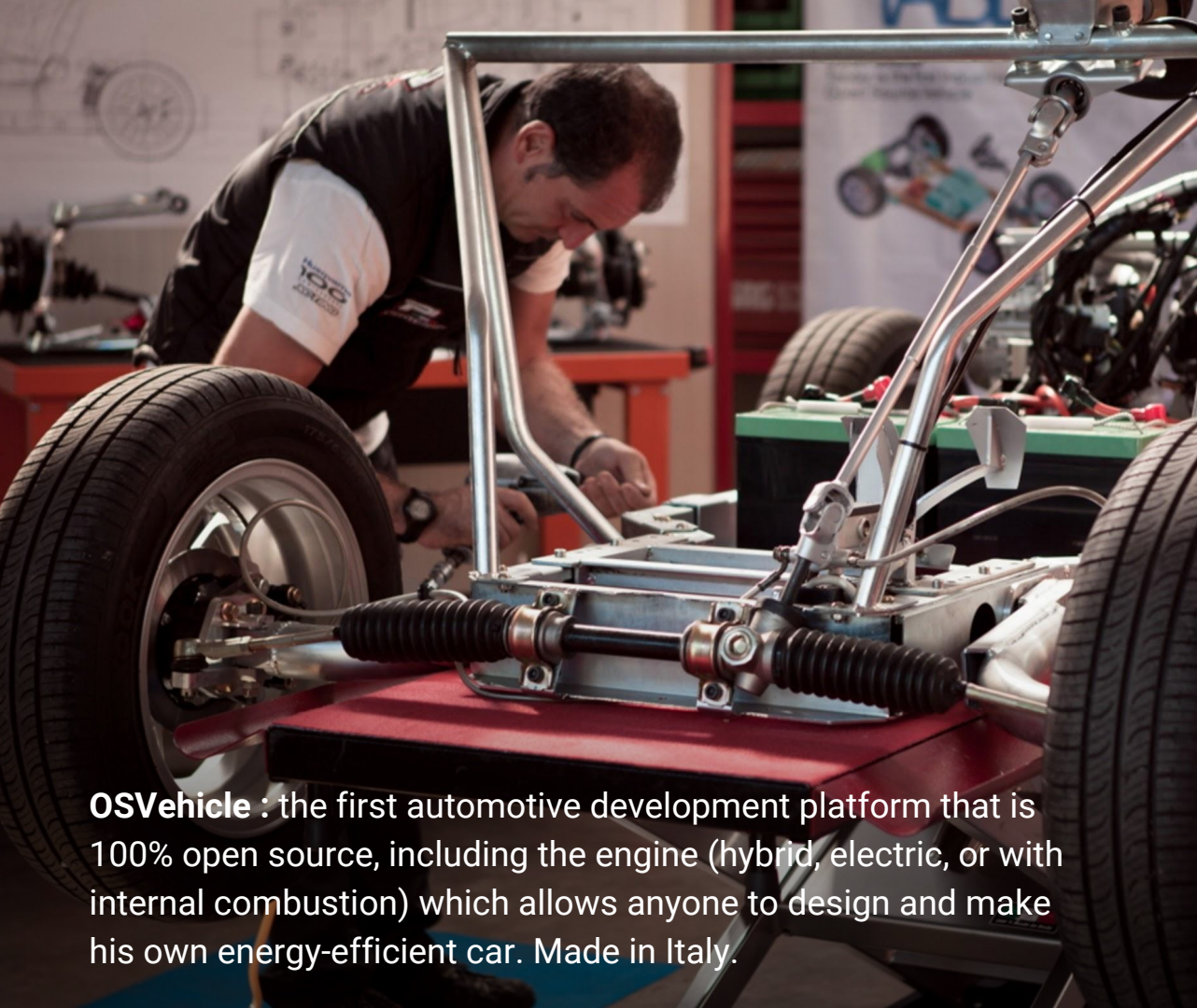
Electric Motor:

A powerful, efficient, 5kW brushless DC motor allows for 0-50 kph in 6 seconds, and 100 kms for 0.2\$ of electricity.



open
source
ecology





OSVehicle : the first automotive development platform that is 100% open source, including the engine (hybrid, electric, or with internal combustion) which allows anyone to design and make his own energy-efficient car. Made in Italy.



image courtesy of OSVehicle

OPEN SOURCE

FOOD & AGRI



P2P Food Lab : greenhouses outfitted with low-cost sensors that monitor and share environmental data within a community of users



LifeTrac Tractor by Open Source Ecology. One of the prototypes of the Global Village Construction Set. The GVCS is a set of 50 open source, low-cost and self-replicable machines for community resilience.

A wooden planter bed with a grid-like structure, designed for growing fresh produce. It is made of light-colored wood and has several rectangular compartments. The background shows a large window with a view of a city.

GroGrid

Feed your loved ones fresh produce with this planter bed.

A wooden beehive with a tiered, conical shape. It has a small entrance at the bottom and a handle on the side. The background shows a large window with a view of a city.

EcoHive

Make your own honey with this lovely beehive.

A wooden chicken coop with a wire mesh front and a small door. It has a ramp leading up to the entrance. The background shows a large window with a view of a city.

EggHaus

Host two hens and enjoy fresh eggs every day.

A wooden compost bin with a tiered, rectangular shape. It has a handle on top and a small entrance at the bottom. The background shows a large window with a view of a city.

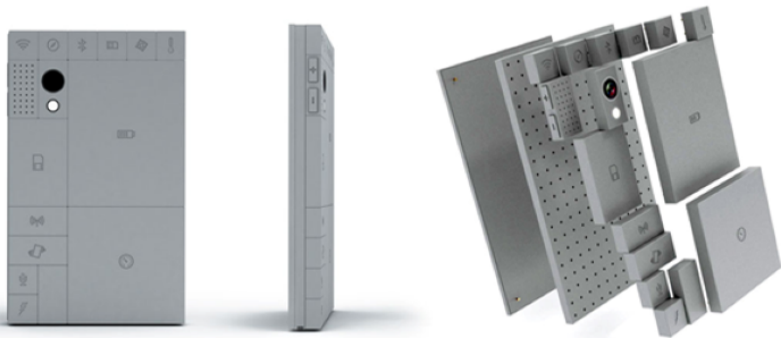
WormHaus

Turn your produce scraps into fresh soil for your garden.

OPEN SOURCE

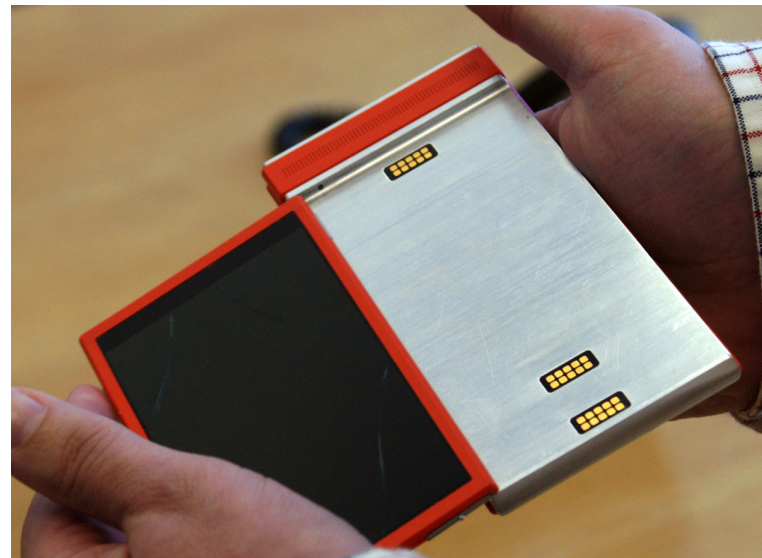
PRODUCTS

FOR CIRCULAR ECONOMY

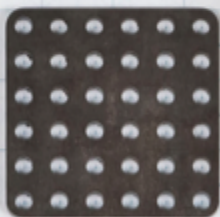
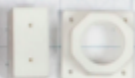
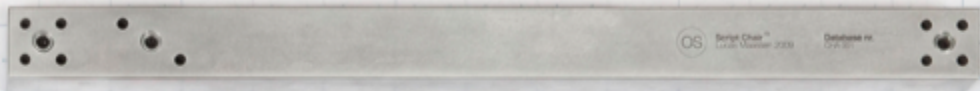
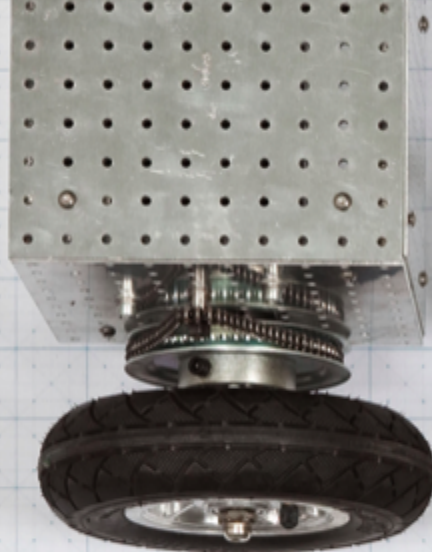


PHONEBLOKS

A PHONE WORTH KEEPING



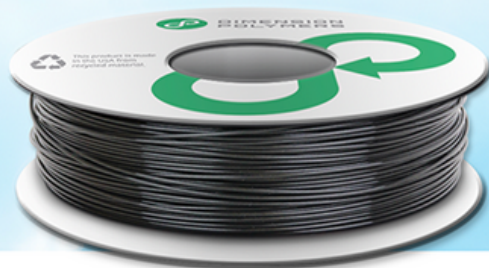
Google





Reclaim innovation.

Sustainable 3D printing.



Dimension Polymers has developed the first professionally engineered 3D printing filament **made from recycled plastic.**

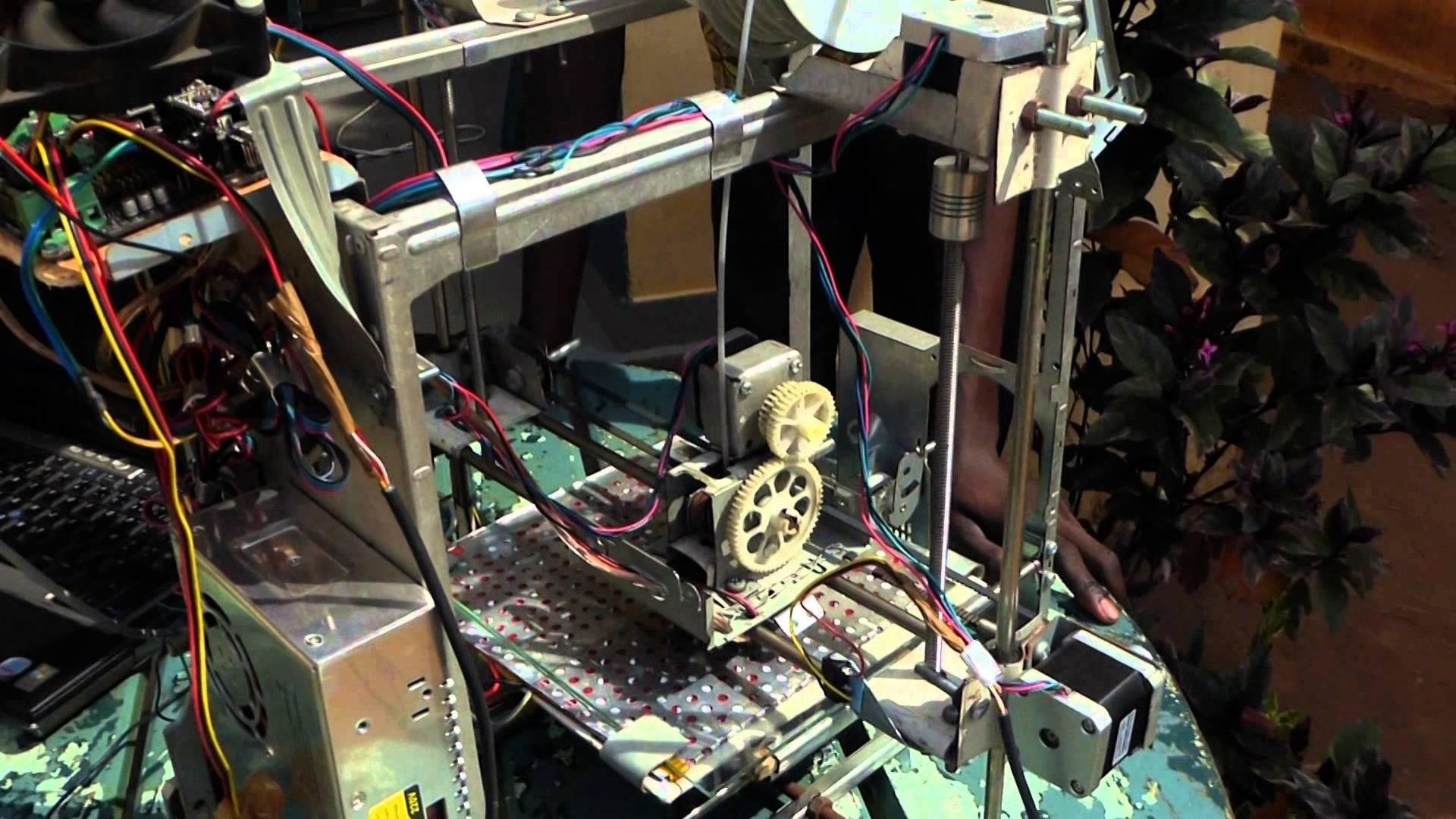


Our goal is to help promote environment-friendly manufacturing through scientific innovation.




JERRY
DO IT TOGETHER





THE VISION

Building the most functional and replicable cell
of a truly sustainable society.

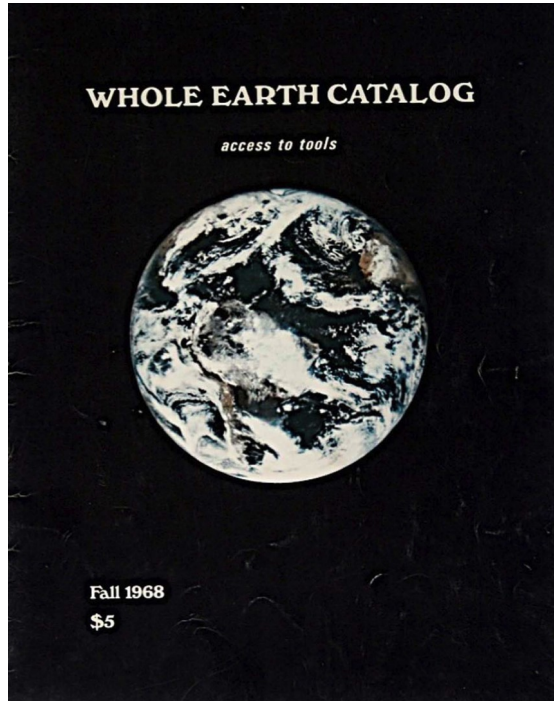
Open Source everything.
Spread. Adapt.
Multiply.





5 WEEKS
12 PROJECTS
100 PARTICIPANTS

A CATALOG FOR OPEN SOURCE SUSTAINABILITY



1 - "PREPARE"

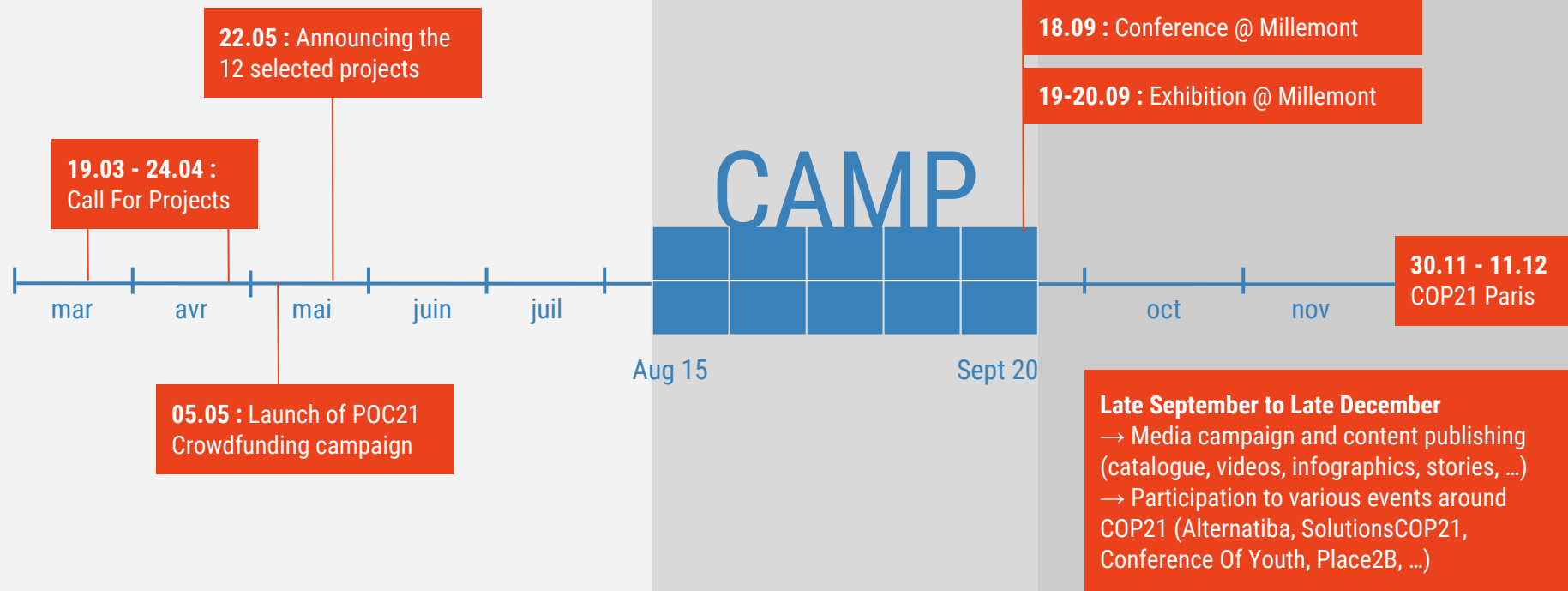
Preparation, research, project selection,
building the POC21 community

2 - "PROOF"

5-week Camp at Millemont castle
with 12 selected projects, and the
best mentors and experts

3 - "PUBLISH"

Big communication outreach toward media,
mainstream, businesses, funders,
policymakers and academia





open state
TOMORROW MADE TODAY



<http://ouisharefest.com>

OUI SHARE
FEST 2014

<http://thiswaspalomar5.org>

PALOMAR
exploring creative space



OuiShare is a think-tank, do-tank and global community of pioneers building a collaborative and open source society. Founded in 2012 in Paris as a non-profit, we now have 20+ local chapters in Europe, Latin America and North Africa.



Open State is a laboratory for contemporary, sustainable living, founded 2012 in Berlin. At Open State designers and activists join forces to build fully operating, replicable cells of a future-proof society.

MEET THE TEAM (GROWING!)



Benjamin Tincq
*Coordination
Partnerships*



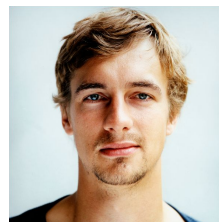
Justyna Swat
*Strategic Design
Camp Program*



Dominik Wind
*Camp Program
Partnerships*



Simon Kiepe
*Creative Direction
Strategic Design*



Daniel Kruse
*Communication
Partnerships*



Donatienne Lavoillotte
Event Production



Jennifer Leblond
*Community
Management*

OUR FIRST SPONSORS



Hele Avus
- Stiftung -



around 10 others being currently confirmed
(regional and national public insitutions,
companies and foundations)

COMMUNITY PARTNERS & MEDIA PARTNERS



Make:



COHABITAT
FUNDACJA



ACADEMIC PARTNERS



IDDRI SciencesPo: The Institute for Sustainable Development and International Relations of SciencePo Paris
Scientific analysis of the projects, expertise on the COP21 negotiations



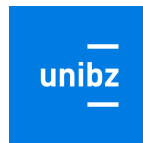
University of Potsdam: Chair for Innovation Management & Entrepreneurship
Academic supervision and research on sustainable innovation



ENSCI - Les Ateliers: Fab Flex Workshop
Participation of industrial design students to the creative process of the Camp, and the design of the final exhibition
(UNDER FINALIZATION)



Fraunhofer Institute: Institute for Systems and Innovation Research
Prospective systémique et technique, évaluation d'impact de POC21



University of Bozen-Bolzano
Sustainable Design Institute
Recherche design et développement des produits open source



IAAC Barcelona - Institute of Advanced Architecture of Catalunya
Contribution of experts from Fab Lab Barcelona and Green Fab Lab (Valldaura) ; connection with the global Fab Lab network : FabLab.io



THANK YOU

AND LET'S KEEP IN TOUCH

<http://poc21.cc>  @POC21cc



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 @btincq



open state
TOMORROW MADE TODAY

 OUI SHARE