

Open Land Lab



www.openlandlab.org

contact@openlandlab.org

ThinkCamp Smart Country 2017

Institute ZVR-Nr: 057729551



who am i

- born as digital nativ in Vienna
- 1 Daughter (first member of OLL)
- Communication Engineering & Electronics
- 1979 – 1987 Hardware Support (really big Computers)
- 1987 – 1990 Software Support Mainframe
- 1990 – 2003 Hardware & Software Development
- 2004 – Software Development Management



```
leopold@debian: ~  
Datei Bearbeiten Ansicht Suchen Terminal Hilfe  
leopold@debian:~$ who  
leopold  tty7          2015-03-22 17:41 (:0)  
leopold  pts/0          2015-03-22 17:47 (:0.0)  
leopold@debian:~$ whoami  
leopold  
leopold@debian:~$
```



Amt d. Bgld. Landesregierung
LAD-Ref. GIS-Koordination
Stabsstelle Raumordnung
Europaplatz 1, 7000 Eisenstadt
post.gis@bgld.gv.at

Datenauszug

1:2.000

0

0,07

0,14

Kilometer

A4



Datengrundlage: Amt der Burgenländischen Landesregierung - GIS Burgenland, BEV (DKM - Stand April 2014), Geomarketing
nicht rechtsverbindlicher Ausdruck

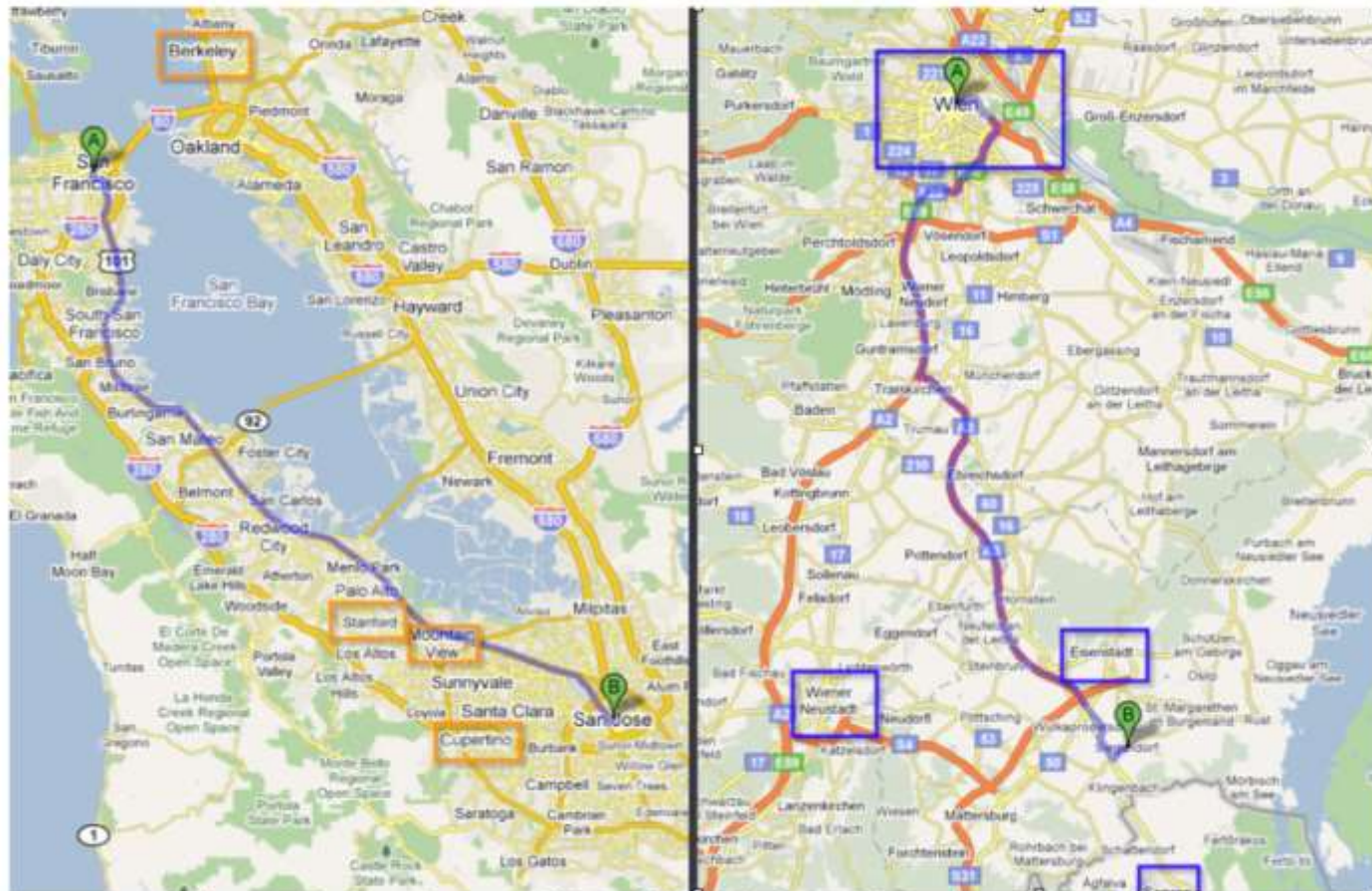
Erstellungsdatum: 21.09.2014

47° 09' 48.78" N 16° 20' 55.24" E

Sea Level 277m

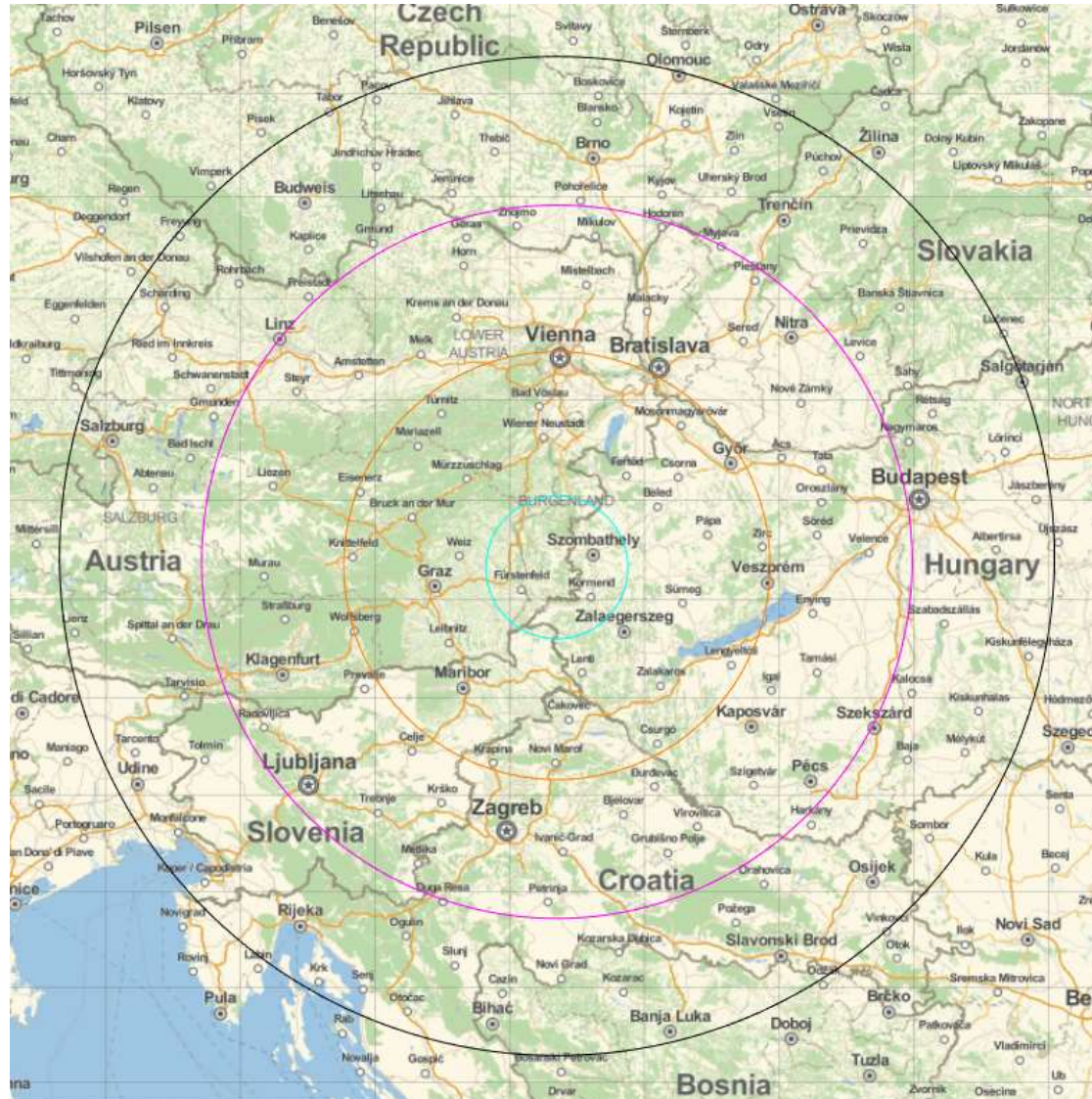
DREAMICON VALLEY

Like the Silicon Valley in California, it is an area where two tectonic plates meet, where there is room for a scalable ecosystem for innovation and access to resources and infrastructure:



Picture: Analogy between Silicon Valley (left) and Dreamicon Valley (right)

CENTRE OF EUROPE

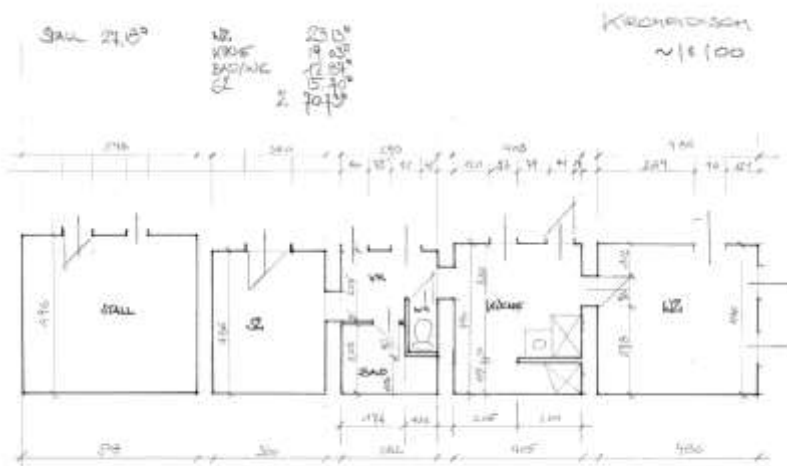


GARAGE @ OpenLandLAB

- ✓ 3700 m²
- ✓ Electricity
- ✓ Water + groundwater
- ✓ Sewage
- ✓ Internet, WLAN
- ✓ House
- ✓ 5 rooms + caravan
+ barn



Ø 1m, depth 8m, water-level 6m



RESSOURCES

Heating Installation ?

RENOVATION 2014



RENOVATION 2015



TOPICS of OLL

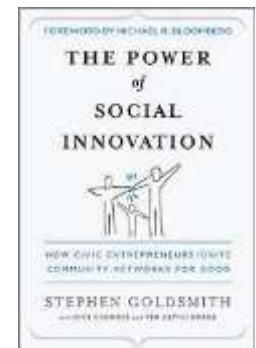
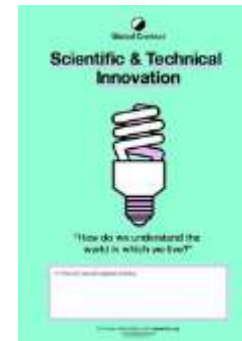
#open source OSS -> OSHW



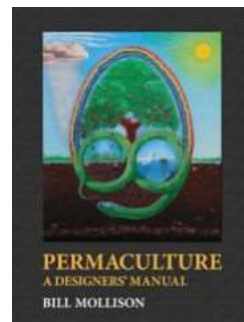
#diy (because we can)



#open innovation (technical + social)



#permaculture



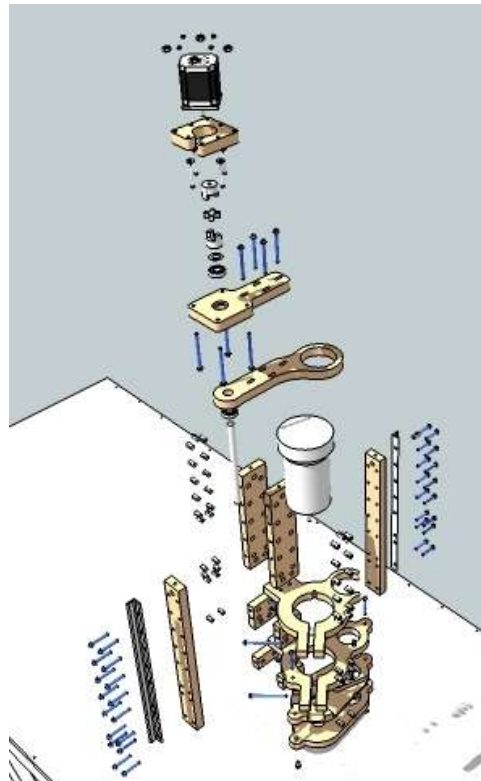
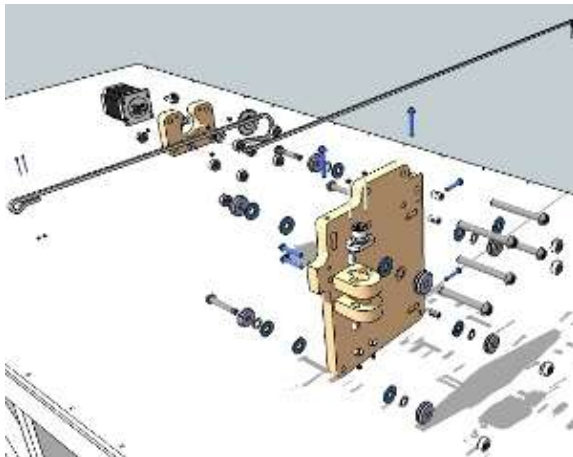
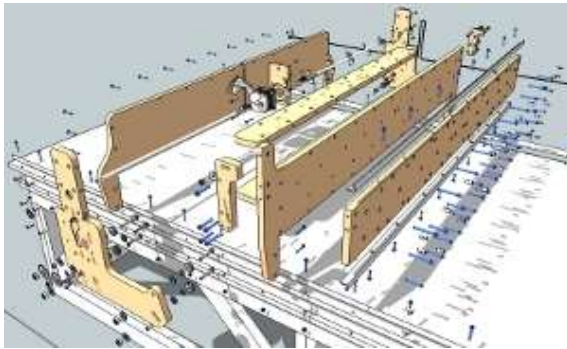
-> #future farming



CNC Hackathon 30.11.-6.12.2015



PARADIGM SHIFT INDUSTRIE 4.0 - CNC



WIKIHOUSE – CNC PRODUCTION ?



TREND URBANISATION

-> Post City ?



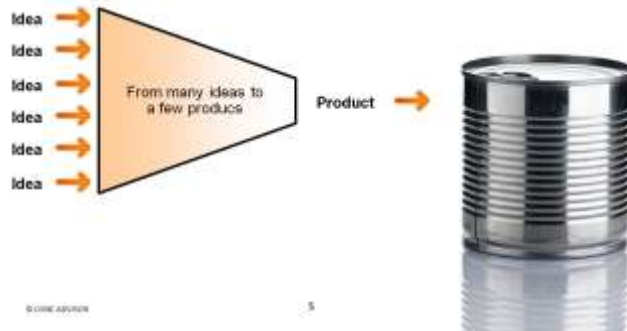
back to the land efforts
#villageredesign
#futurevillage
#ruralproject



OPEN INNOVATION ?

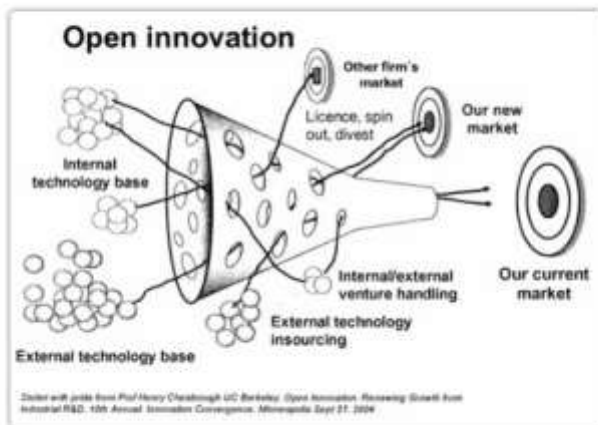


**Product and Service
Innovation Funnel**



- CREATING THE NEW
- IDEATION WORKSHOPS
- CO-CREATION WORKSHOPS
- INNOVATION CAMPS
- HACKATHONS
- ...

“Open” Innovation Funnel



SMART COUNTRY

www.landideen.org

www.landideen.eu

2015 Starting Permaculture



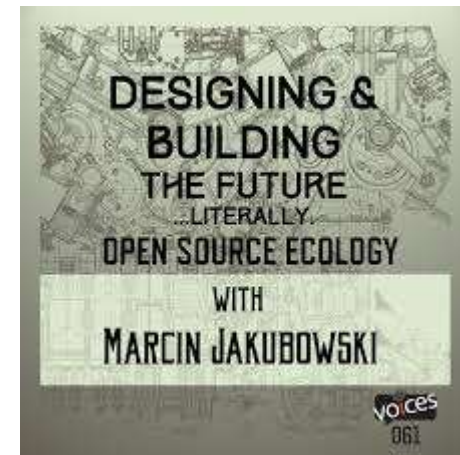
In Action



First Prototype Solar Fruit Dryer



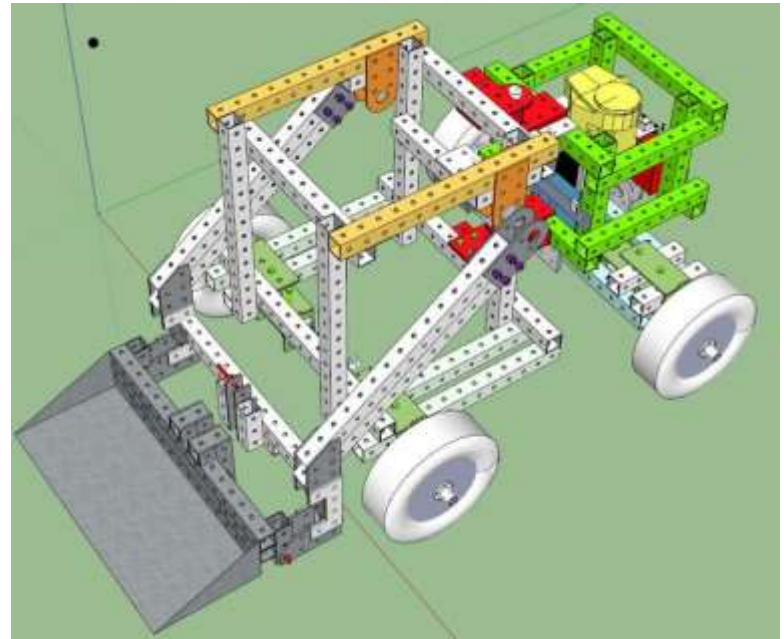
OPEN SOURCE ECOLOGY - 15 years after ?



Open Source Blueprints for Civilization



Global Village Construction Set



SOLAR VILLAGE

Testfield I - Solar Village

Technology for a local energy supply

"You can never change things
by fighting the existing reality.
To change something build a new model
that makes the existing obsolete."
R. Buckminster Fuller

"Energy autonomy," is the most important, overarching theme of the arriving Solar Age. The use of regionally-produced energy, from sustainable resources, makes possible not only a liberation from outside control... it makes it possible to create autonomous, networked structures, assembled from the growing subsistence systems, even in the most economically-impooverished and rich-in-sunlight regions on earth.

The fundamental thought behind the "Solar Power Village" was born out of compassion, for the conditions in which the poorest people live, who are forced to burn the last remaining wood to be able to cook, and who have no prospects for a rich life, with simple technical possibilities. A real possible solution is made visible here, which is relevant for all areas of life.

Tamera created a "test field" for this idea, the Testfield 1. This is where Jürgen Kleinwächter's inventions are tested and integrated into daily life, along with complementary elements like Scheffler mirrors and biogas digesters.

The main sources of mechanical power here are low-temperature Stirling motors. The Stirling motor, invented in 1815, is an engine that turns temperature difference into mechanical energy. The Stirling motor is thus an example of the transformation of a form of energy that is difficult to use (thermal energy) into the more easily-applied mechanical energy. The fundamental principle upon which this machine operates is not disintegration and breakdown, but creation and assembly.

When one considers how it functions, one notices that the Stirling motor does not derive energy from explosive expansion processes. It is not an explosion-machine, but a breathing or pulsating device.



Next Level OSHW ?

- **Not only electronics**
- **Professional Docu !**
- **Ragged / outdoor solutions**
- **real products – idea2product**
- **§ - OSHWA License ?**
- **Open Collaborations ?**
- **...**

OPEN SOURCE BUSINESS ?



<http://openitagency.eu>

Open Source Business Models

english, deutsch

/* english */

Lars Zimmermann, Sam Muirhead; Consulting, Research and Development of Open Source Business Models

Making Money being Open Source

"You can't make money being open" is a common criticism of [Open Source](#). And while true in a few cases, in many cases it's just the opposite. There are many opportunities to work better and more effectively through an open approach. Open Source is very often an ideal strategy for developing a more innovative, financially successful and sustainable business, where money can be made not DESPITE being open but in fact BECAUSE you are open.

But of course this isn't a case of just changing a license and carrying on with business as usual – open strategies require certain adjustments to the a company's business model – sometimes minor alterations, sometimes transformative change.

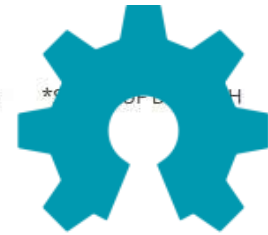
Only few adptions are needed when the core business remains almost untouched by the openness – a bakery, a glazier's or carpentry workshop etc. – it is not a monopoly on information that sells the product but factors like quality of the craft, marketing, location etc. So sharing information and skills with the community becomes an exercise in radical transparency and promoting an interest in your craft. Open Source is an interesting marketing/communication possibility here to build better and richer relationships with the environment, reinforce the core skills and qualities of the organisation, and engage in other forms of communication with your customers and partners.

ABOUT US

BLOG

RESOURCES

CONTACT



open source
hardware

Type Here to Search



LICENSE



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OSHW



Open Source It Manual

OSHW Quick Reference Guide

OSHW Definition 1.0 - EN, deutsch

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Twitter

Product
Development
Process for Open
Source Hardware

A reference guide for OSH developers

GIRISH MAIYA



OPEN DESIGN



Hack chair 2009

Thanks!

12 Years of Open Design

Maker Faire Vienna, April 2016



You are welcome to download and use the Open Designs @ www.ronen-kadushin.com



Flexible computer-controlled manufacturing



Flexible computer-controlled manufacturing



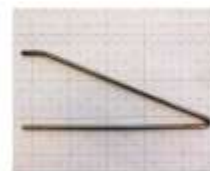


OpenStructures

The OS (OpenStructures) project explores the possibility of a modular construction model where everyone designs for everyone on the basis of one shared geometrical grid. It initiates a kind of collaborative Meccano to which everybody can contribute parts, components and structures.

I'm looking for:

Search result - Showing 1 to 10 out of 177



metal hook
assembly part
not for sale

Short description:
shelf holder

244

This part is used in the following structures and / or components



Designer:
Jonathan Kasilo

Date:
2015

Location:
Belgium

★★★★★
ratings: 5



X5/2
assembly part
not for sale

Short description:
shelf holder

243

This part is used in the following structures and / or components

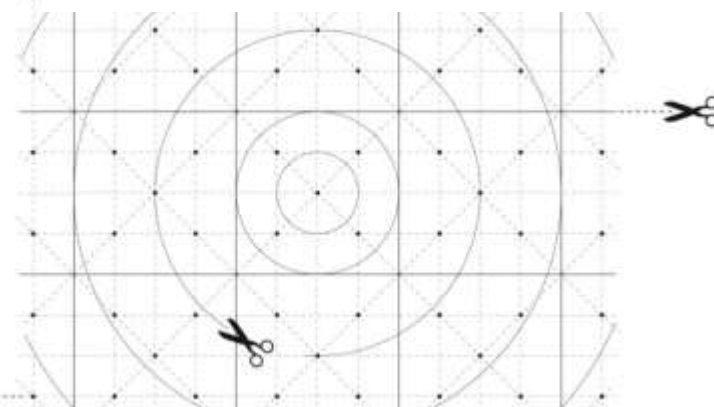
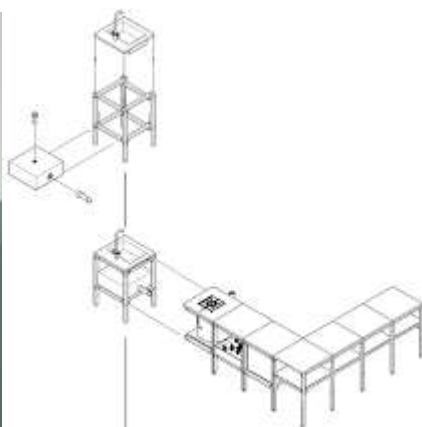
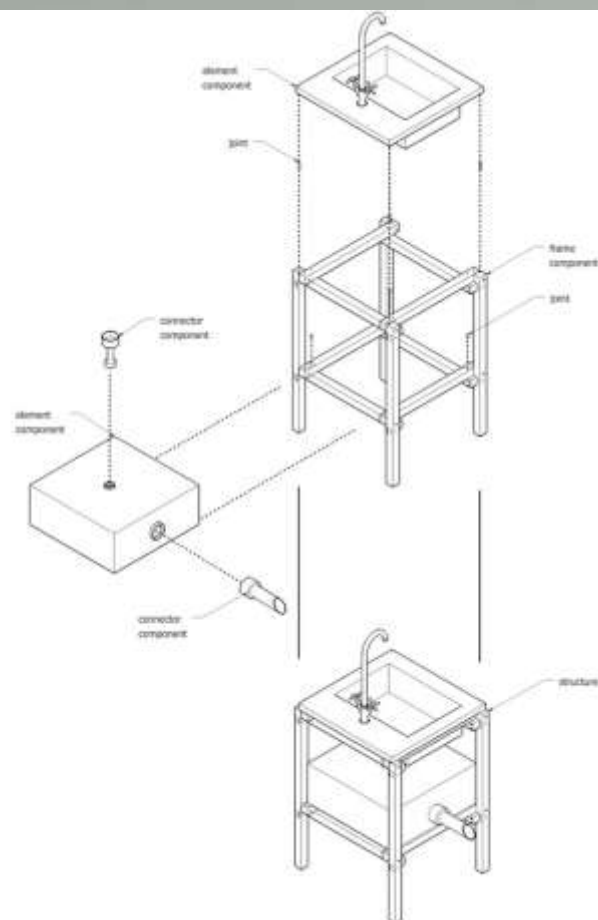


Designer:
Alexandre Licata

Date:
2015

Location:
Belgium

★★★★★



COLLECTIVE DESIGN

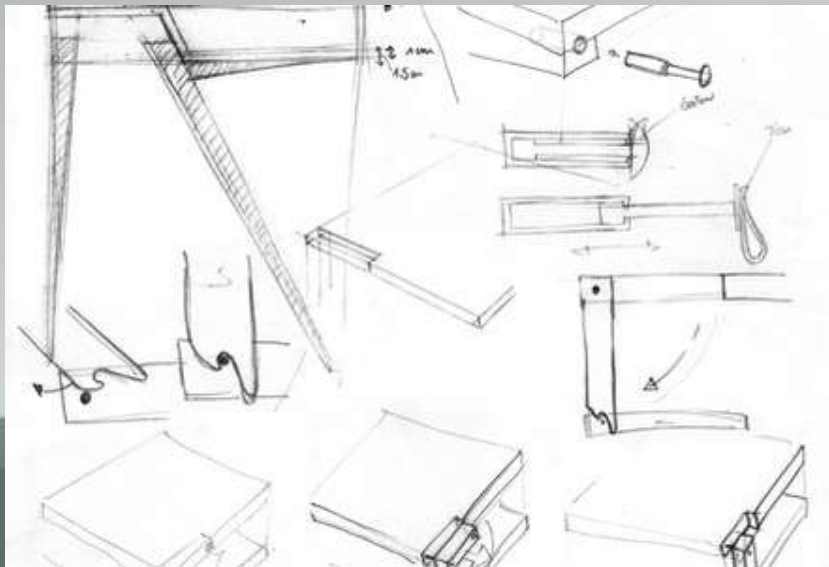
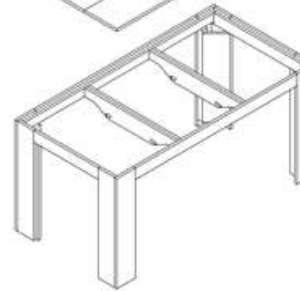


collective
furniture

MODULE



RAHMEN



<http://collectivefurniture.at/#blog>

2016

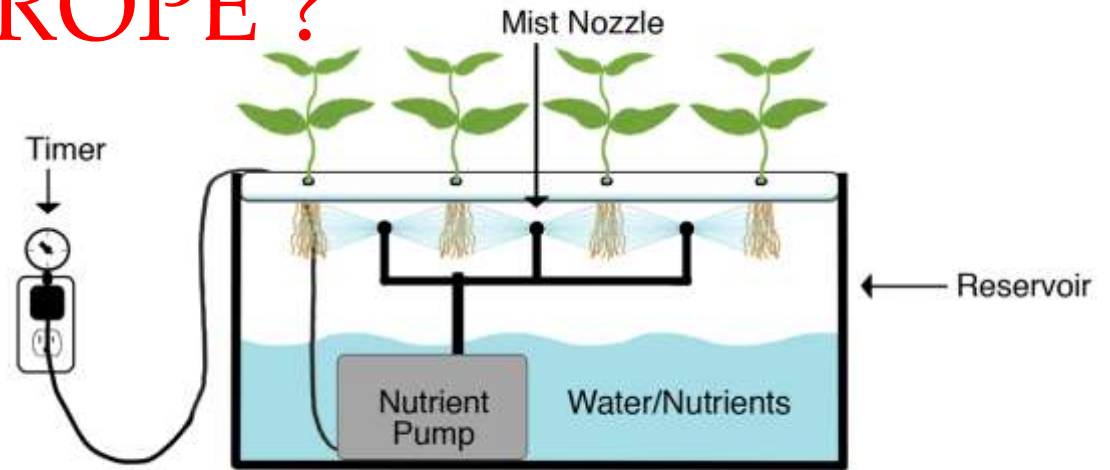
<http://www.pegasus-trimaran.com>



Christian Alexander
@ OpenLandLAB

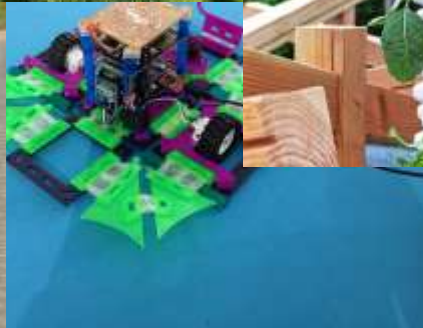


CHINA or EUROPE ?



OpenLandLAB @ FAB12 China

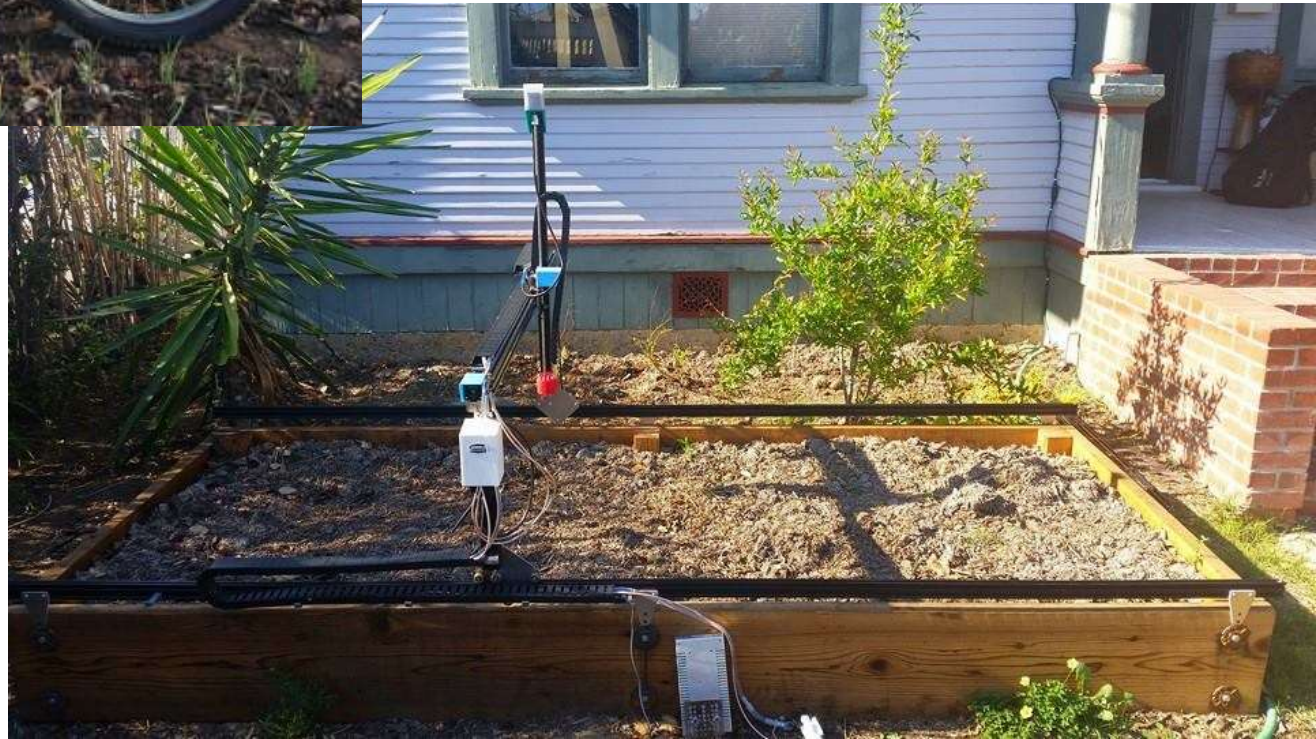
International Fablab Conference



TREND AGRICULTURE INNOVATION



FARM HACK



Farmbot Outdoor



Farmbot Rollout



Welcome to the FarmBot Web App

Setup, customize, and control FarmBot from any device



March Software Update

by Rory Aronson | Mar 15, 2017

Check out what's new with the FarmBot software stack since last month:

We now have over 70 awesome crop icons made for common garden vegetables. Simply drag and drop plants into the farm designer to see for yourself! Have a favorite crop that you want an icon for? Just respond to this email with the crop name and we'll add it to our list.



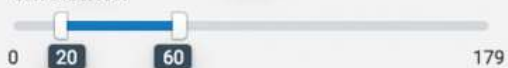
We've introduced the concept of **Farmware**: software plugins that you can install on your FarmBot to extend its functionality. So far we have a few 1st-party farmwares in the works for taking photos, calibrating the camera, and identifying weeds. Once the farmware infrastructure stabilizes, we'll document how you can create 3rd-party farmwares of your own!

Color Range

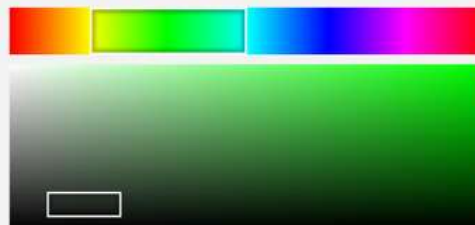
HUE



SATURATION



VALUE



Processing Parameters

BLUR

15

MORPH

6

ITERATION

4



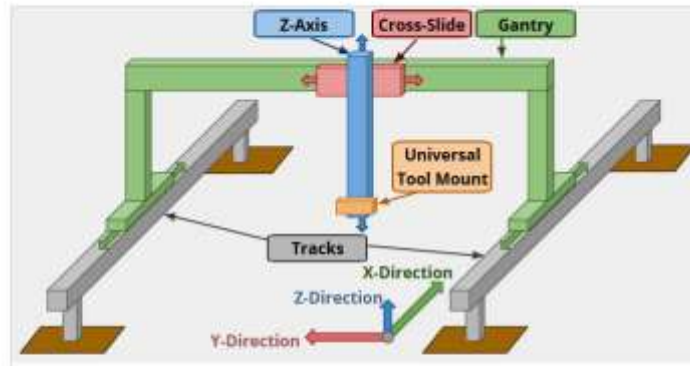
Farmbot++

- Mechanical Redesign
- Scalability
- LED Light ?
- Additional Sensors ?
- 3D Cam? - Plant Growth ?
- Machine learning
- Soil ?
- Soil Irrigation ?
- Grey Water ?
- Compost ?
- Nutrient Solution ?
- ...

Raised Tracks vs Low Tracks

Z-Axis

The Z-axis attaches to the Cross-Slide and provides the FarmBot with Z-Direction movement. It serves as the base for attaching the Universal Tool Mount and other Tools.

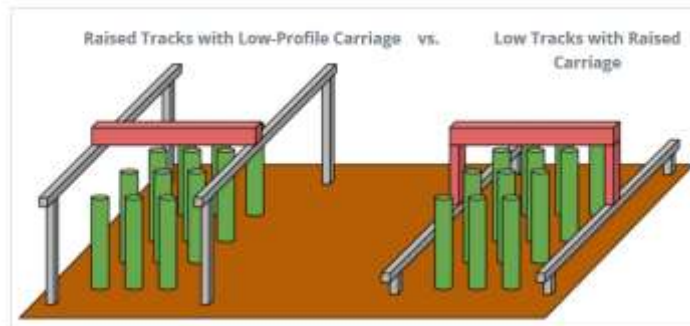


Raised Tracks vs Low Tracks

For FarmBots to properly grow taller plants, the Gantry, Cross-Slide, Z-Axis, and Tools must have adequate vertical clearance from the plants. This can generally be accomplished in two ways:

1. Using raised tracks and a low-profile gantry
2. Using low tracks with a tall gantry

In general, using low tracks with a tall gantry is the better design, especially for larger applications because it saves on material cost, is less of an eyesore, blocks less sunlight, and would be easier to maintain. However, in the case of a FarmBot being installed in a greenhouse or other structure, utilizing the existing walls to support the tracks higher may be a better solution.



Farmbot Research (Indoor)



European Parts ?

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Lieferanten / Kategorie	Werk	Spezifikation / Menge	Einzel Preis	Gesamt Preis	Gesamt FR	Gesamt D	Gesamt D (incl. MwSt)	Gesamt D (incl. MwSt)	Werk	Werk	Werk	Werk	Werk	Werk	Werk	Werk	Werk	Werk	Werk	Werk	Werk	
1	Internet Bestel Extrusions	Track Extrusions 1500mm 20mm	4	\$21.45	\$85.80	\$85.80	\$17.41	\$85.80	107%	Frank	8	0	0	0	0	20	17.28	3456	85.28	Frank	V-Slot DE	http://makers.de
2	Internet Bestel Extrusions	Track Extrusions 3000mm 30mm x 40mm	V-Slot							Frank	0	0	0	0	0	0	0	0	0	NA	V-Slot DE	http://makers.de
3	Internet Bestel Extrusions	Track Extrusions 1250mm 20mm x 40mm	V-Slot							Frank	0	4	0	0	0	4	14.44	576	792	Frank	V-Slot DE	http://makers.de
4	Internet Bestel Extrusions	Gantry Extrusions 650mm 20mm	2	\$12.65	\$25.30	\$25.30	\$25.30	\$25.30	109%	Frank	2	2	2	2	2	8	9.95	792	792	Frank	V-Slot DE	http://makers.de
5	Internet Bestel Extrusions	Gantry Main Beam 3000mm 20mm	1	\$20.30	\$20.30	\$20.30	\$20.30	\$20.30	120%	Frank	1	1	1	1	1	2	23.58	792	792	Frank	V-Slot DE	http://makers.de
6	Internet Bestel Extrusions	Gantry Main Beam 3000mm 20mm x 60mm	V-Slot							Frank	0	0	0	0	0	1	15.24	108	108	Frank	V-Slot DE	http://makers.de
7	Internet Bestel Extrusions	Z-Axis Extrusions 3000mm 20mm	3	\$11.00	\$33.00	\$33.00	\$33.00	\$33.00	184%	Frank	1	1	1	1	1	4	15.48	816	9.00	offen	V-Slot CH	http://makers.de
8	Massenfertiger Platten	Track End Plates	4	\$5.00	\$20.00	\$20.00	\$20.00	\$20.00	123%	Frank	4	4	4	4	4	10	172.58	880.2	10.00	offen	Cutting	http://makers.de
9	Massenfertiger Platten	Track Joining Plates	2	\$5.00	\$10.00	\$10.00	\$10.00	\$10.00		Frank	2	2	2	2	2	8		0	offen	Cutting	http://makers.de	
10	Massenfertiger Platten	Track Joining Plates								Frank	4				4	8	5.98	478	10.00	offen	Cutting	http://makers.de
11	Massenfertiger Platten	Gantry Wheel Plates	2	\$15.00	\$30.00	\$30.00	\$30.00	\$30.00		Frank	2	2	2	2	2	8		0	offen	Cutting	http://makers.de	
12	Massenfertiger Platten	Gantry Corner Brackets	2	\$5.00	\$10.00	\$10.00	\$10.00	\$10.00		Frank	2	2	2	2	2	8		0	offen	Cutting	http://makers.de	
13	Massenfertiger Platten	Cross-Slide Plate	1	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00		Frank	1	1	1	1	1	4		0	offen	Cutting	http://makers.de	
14	Massenfertiger Platten	Z-Axis Cable Carrier Mount	1	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00		Frank	1	1	1	1	1	8		0	offen	Cutting	http://makers.de	
15	Massenfertiger Platten	Tool Rays	2	\$20.00	\$40.00	\$40.00	\$40.00	\$40.00		Frank	2	2	2	2	2	8		0	offen	Cutting	http://makers.de	
16	Massenfertiger Platten	Belt Clips	8	\$3.00	\$24.00	\$24.00	\$24.00	\$24.00		Frank	8	8	8	8	8	24		0	offen	Cutting	http://makers.de	
17	Massenfertiger Platten	Winkel zur Befestigung 40mm Lochabstand								Shelfen	6	6	6	6	6	24				Eigenbau	Entwerfen und	
18	Internet Bestel Fasteners & Hardware	Schrauben ohne	1	\$121.22	\$121.22	\$121.22	\$121.22	\$121.22	100%	Alex	0	0	0	0	0	0	0	0	0	NA		
19	Internet Bestel Fasteners & Hardware	Schrauben ohne	30							Alex	48	32	32	48	48	160				Beimack		
20	Internet Bestel Fasteners & Hardware	Unsenkopfschrauben	140							Frank	120	141	141	120	120	452	0.036	13.36	5	Frank	Online-Baum	http://makers.de
21	Internet Bestel Fasteners & Hardware	Drop in	47							Frank	47	47	47	47	47	188	0.268	68	6	Frank	V-Slot DE	http://makers.de
22	Internet Bestel Fasteners & Hardware	Standard	100							Frank	144	100	100	144	144	488	0.228	108.26	Frank	V-Slot DE	http://makers.de	
23	Internet Bestel Fasteners & Hardware	Low Profile (H)	22							Frank	22	22	22	22	22	88	0.036	2.46	Frank	Online-Baum	http://makers.de	
24	Internet Bestel Fasteners & Hardware	Low Profile (H)	8							Frank	8	8	8	8	8	32	0.096	2.96	Frank	Online-Baum	http://makers.de	
25	Internet Bestel Fasteners & Hardware	Low Profile (H)	12							Frank	27	27	27	27	27	108	0.096	5.76	Frank	Online-Baum	http://makers.de	
26	Internet Bestel Fasteners & Hardware	Madensteinhaut	6							Frank	6	6	6	6	6	24	0.228	5.36	Frank	Online-Baum	http://makers.de	
27	Internet Bestel Fasteners & Hardware	Sicherungsmut	22							Frank	22	22	22	22	22	88	0.048	3.68	Frank	Online-Baum	http://makers.de	
28	Internet Bestel Fasteners & Hardware	Madensteinhaut	4							Frank	4	4	4	4	4	16	0.236	3.68	Frank	Online-Baum	http://makers.de	
29	Internet Bestel Fasteners & Hardware	Unsenkopfschrauben	34							Frank	22	22	22	22	22	92	0.048	3.68	Frank	Online-Baum	http://makers.de	
30	Internet Bestel Fasteners & Hardware	Unsenkopfschrauben	42							Frank	27	27	27	27	27	108	0.076	7.76	Frank	Online-Baum	http://makers.de	
31	Internet Bestel Fasteners & Hardware	10-30 mehr für M4	56							Frank	86	86	86	86	86	344	0.016	5.16	Frank	Online-Baum	http://makers.de	
32	Internet Bestel Fasteners & Hardware	1/4" stat. Arm	26							Frank	16	16	16	16	16	64	0.196	12.26	Frank	V-Slot DE	http://makers.de	
33	Internet Bestel Fasteners & Hardware	1/4" stat. Arm	8							Frank	24	8	8	24	24	64	1.376	87.68	Frank	V-Slot DE	http://makers.de	
34	Internet Bestel Fasteners & Hardware	Sicherungsmut	80							Frank	0	0	0	0	0	0	0	0	0	NA		
35	Internet Bestel Fasteners & Hardware	Clear Polycarb	30	\$3.60	\$108.00	\$108.00	\$108.00	\$108.00	100%	Frank	0	0	0	0	0	0	0	0	0	NA		
36	Internet Bestel Fasteners & Hardware	1 Precision M4	30	\$4.25	\$127.50	\$127.50	\$127.50	\$127.50		Frank	14	14	14	14	14	42	5.476	229.96	Frank	V-Slot DE	http://makers.de	
37	Internet Bestel Fasteners & Hardware	2m Long GT2 Timing Belt	1	\$16.40	\$16.40	\$16.40	\$16.40	\$16.40		Frank	2	2	2	2	2	22	4.748	104.48	Frank	V-Slot DE	http://makers.de	
38	Internet Bestel Fasteners & Hardware	5m Long GT2 Timing Belt	2	\$41.00	\$82.00	\$82.00	\$82.00	\$82.00		Frank	14	14	14	14	14	56	1.48	209.6	12	Frank	V-Slot DE	http://makers.de
39	Internet Bestel Fasteners & Hardware	GT2 Timing Belt Material	1	\$6.50	\$6.50	\$6.50	\$6.50	\$6.50		Frank	18	12	12	18	18	60	2.8	99.6	4	Frank	3D Printer Supp	http://makers.de
40	Internet Bestel Fasteners & Hardware	20 Tooth GT2 Pulley	1	\$4.95	\$4.95	\$4.95	\$4.95	\$4.95		Frank	3	3	3	3	3	12	1	396		Frank	3D Printer Supp	http://makers.de
41	Internet Bestel Fasteners & Hardware	3mm to 6mm Flex Coupling	1	\$31.50	\$31.50	\$31.50	\$31.50	\$31.50		Frank	1	1	1	1	1	4	5.848	23.48	Frank	V-Slot DE	http://makers.de	
42	Internet Bestel Fasteners & Hardware	6mm ACME Leads-down Redupend	1	\$31.50	\$31.50	\$31.50	\$31.50	\$31.50		Frank	1	1	1	1	1	4	32.236	128.96	Frank	V-Slot DE	http://makers.de	
43	Internet Bestel Fasteners & Hardware	Leadcrew Block	1	\$4.95	\$4.95	\$4.95	\$4.95	\$4.95		Frank	1	1	1	1	1	4	7.668	30.68	Frank	V-Slot DE	http://makers.de	
44	Internet Bestel Fasteners & Hardware	Leadcrew Block	1	\$12.12	\$12.12	\$12.12	\$12.12	\$12.12		Shelfen	1	1	1	1	1	4				Frank	V-Slot DE	http://makers.de



OPENBUILDS

'Dream it - Build it - Share it'.

BUILD ANYTHING®



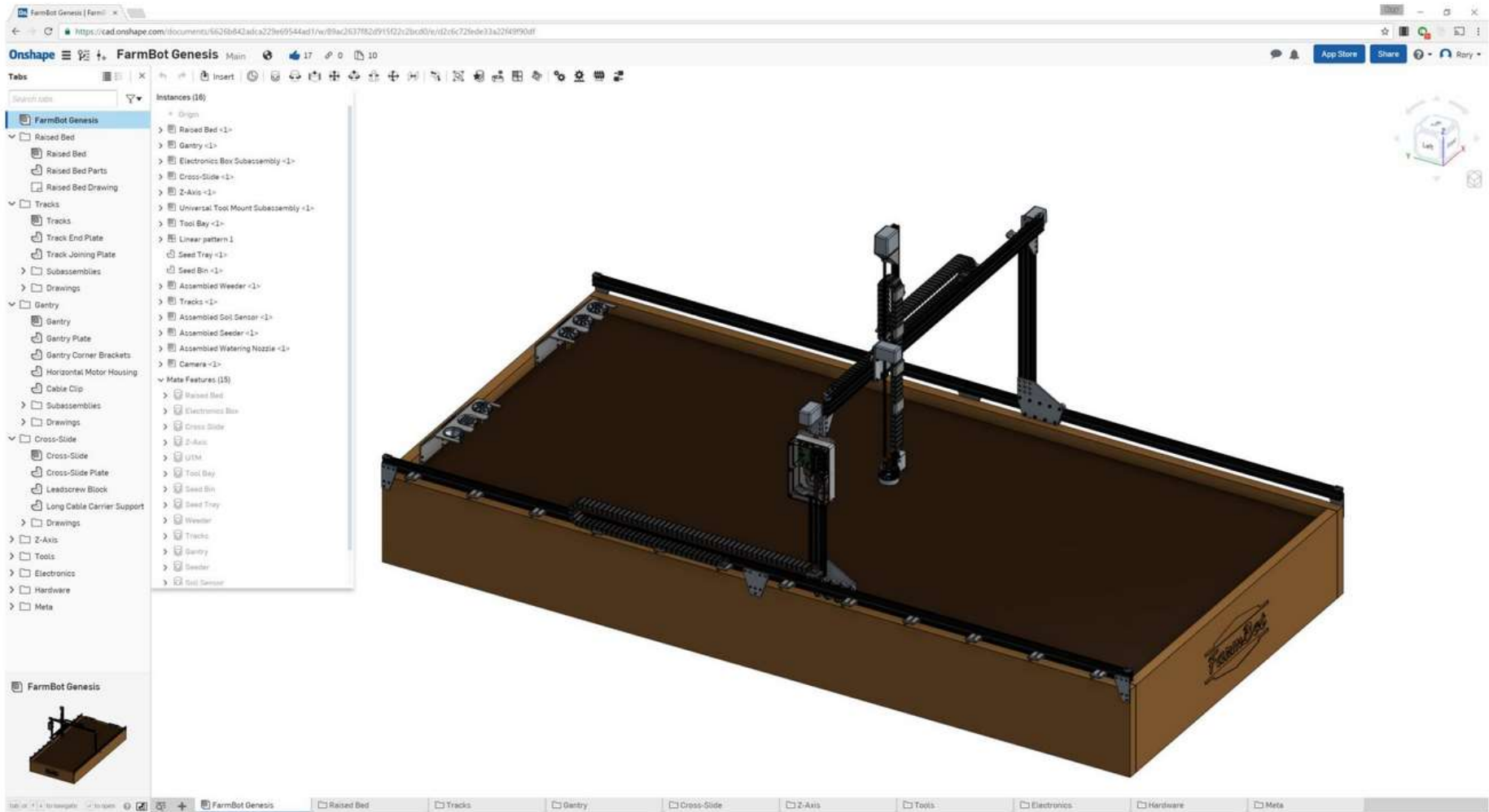
Plant List

- Spinach
- Arugula
- Kale
- Beets
- Chard
- Bok Choy
- Radish
- Broccoli
- Mustard Greens
- Lettuce

IoT Austria



Onshape





Open Agriculture Initiative (OpenAg)

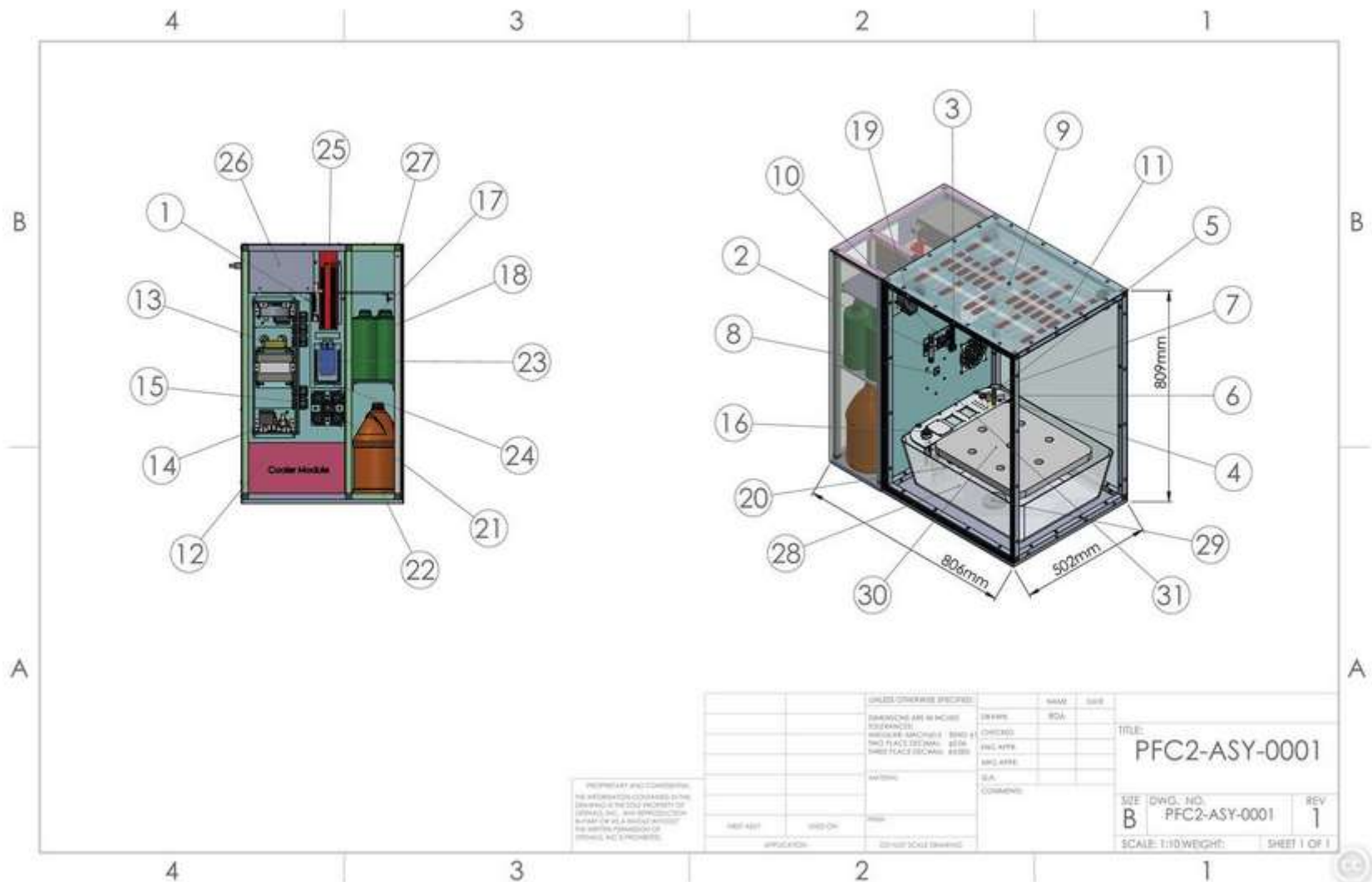
Job Opportunity – [Mechatronic Engineer/Embedded Systems Engineer, OpenAg](#)

Welcome to our new site!

The MIT Media Lab Open Agriculture Initiative (OpenAg) is on a mission to create healthier, more engaging, and more inventive future food systems. We believe the precursor to a healthier and more sustainable food system will be the creation of an open-source ecosystem of food technologies that enable and promote transparency, networked experimentation, education, and hyper-local production.

OpenAg brings together partners from industry, government, and academia in a research collective that's creating collaborative tools and open technology platforms for the exploration of future food systems.

Personal Food Computer



DAS SMARTBEET

unser Stadtbeet für Menschen, die nicht so viel Zeit haben

FEATURES



Das Smartbeet führt die Konzepte konventioneller Hochbeete und intelligenter Bewässerungssteuerung zusammen, ergänzt um einige Funktionen, die wir nur aus der Welt des Smartphone und Consumer Electronics kennen.

Es alarmiert seinen Nutzer, wenn der Tank leer wird oder der Akku nicht mehr über genügend Reserven verfügt. Darüber hinaus können alle gemessenen Parameter live und historisch am Smartphone eingesehen werden.

VORBESTELLEN



INDUSTRY MEETS MAKER

<http://www.industrymeetsmakers.com>

Bei Industry meeks makers handelt es sich um ein Projekt, das darauf abzielt, neue Kollaborationsmodelle zwischen der Industrie und der kreativen Maker-Szene anzustoßen, um das dadurch entstehende Innovations- und Geschäftspotenzial zum Vorteil beider Seiten fruchtbar zu machen.



FACTORY HUB VIENNA

THE NEW HARDWARE HUB IN TOWN

Join a real industrial environment from day one



Do you love to work together?

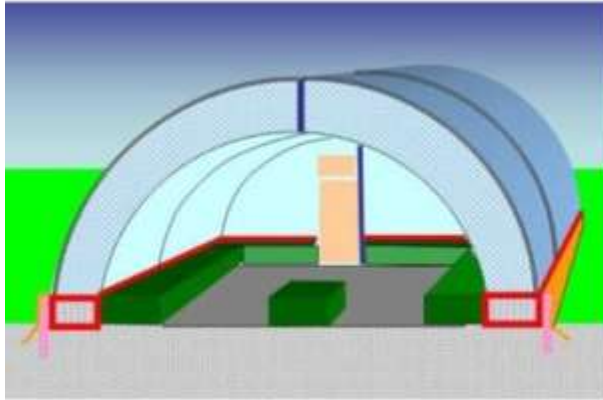
TELE is a respected monitoring technology specialist and a crazy innovation leader with a lot of technical know-how and 90 people who enjoy their work. We link technologies and are your partner if you are seeking someone who understands your vision and can help you make it a reality. Do you have an idea, but don't know where to start? Be part of our Factory Hub Vienna for startups in the 23rd district of Vienna, Austria!

We believe in a shared future

For a reasonable price join us with a desk at our hardware playground, with additional access to the mechanical workshop, test equipment design standards and quality know-how, in-house electronics factory, warehouse logistics, regeneration areas (kitchen, silent room, shower) and optional in-house services such as accounting, marketing, research & development, and sales. We love to cooperate and share our know-how with others. Join the inspiring atmosphere at our hub!



SolaRoof Greenhouse ?



The Sola Roof greenhouse for DIY, which is FREE for use by individuals, families and family farms is a totally "**new and improved**" approach to the well known Tunnel Greenhouse, which includes:

1. **Structure Tech** - strong, light metal *Structures*
2. **Fabric Tech** - high strength, high transparency covers
3. **Liquid Solar Tech** - for *Solar Controlled Environments*
4. **Bubble Tech** - for dynamic liquid *Insulation & Shading*
5. **Controlled Environment** - for closed atmosphere, *CO 2* enriched growing
6. **Phyto Tech** - algae biomass culture for *Bio Fuel*
7. **Open Eco Design** - a collaboration to develop the ecological life support systems required for self reliant homes and communities

Public Interface ?



Showcase for TESLA ?

Electric vehicle charging station ?, Solarroof ?

WLAN + Interactive Display ?

Ambient Sensor Monitoring



OTELO, HOSTELO WIEN

Markthalle und offenes Technologielabor (Otelos) sind frei programmierbare Plattformen zu den Themen Arbeit, Ernährung, Technologien und Wissenstransfer. Aquaponic stellt einen innovativen Beitrag zur zukunftsfähigen Nahrungsmittelproduktion in Ballungszentren dar (Produktion von Gemüse und Fisch in Kreislaufwirtschaft). Die 'atmosphärischen Landschaften' des Freiraums bilden einen nahezu spirituellen Beitrag zur Gesamtanlage. Ein gemeinsam erstelltes Bildungs- und Veranstaltungsprogramm und eine Forschungsarbeit zum Thema biologische Luftbefeuchtung stellen Elemente einer selbstgenerierten Software dar, freigesetzt durch intensive Kooperation der Partner.

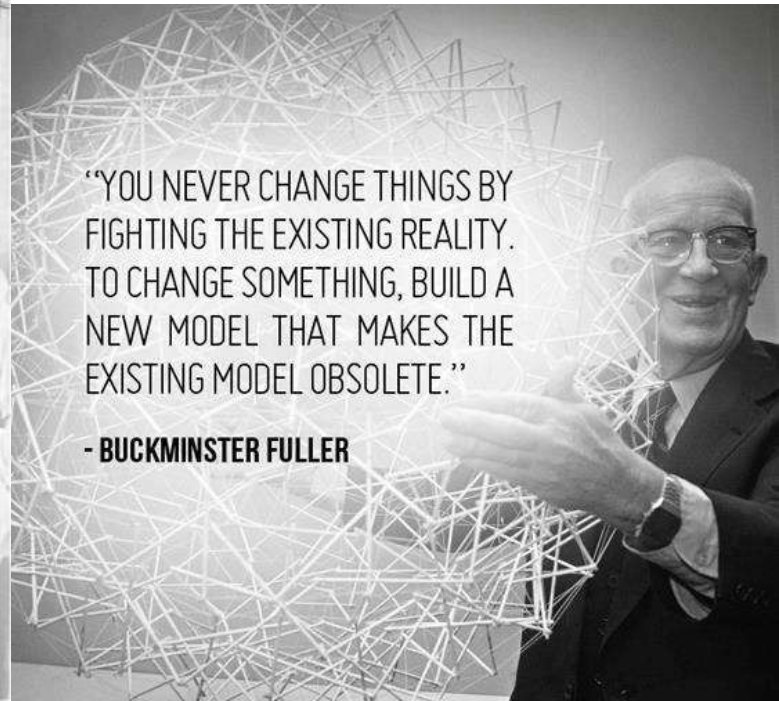
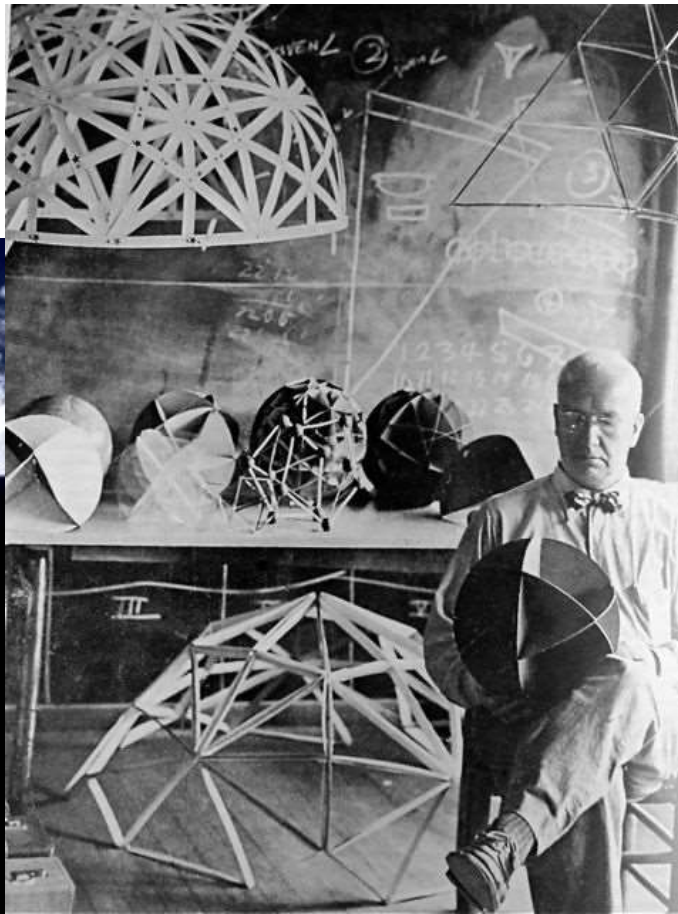


<https://www.youtube.com/watch?v=lmBx4Be25oY>

FUTURE ?



**"THE BEST WAY
TO PREDICT
THE FUTURE
IS TO
DESIGN IT"**
-BUCKMINSTER
FULLER



"YOU NEVER CHANGE THINGS BY
FIGHTING THE EXISTING REALITY.
TO CHANGE SOMETHING, BUILD A
NEW MODEL THAT MAKES THE
EXISTING MODEL OBSOLETE."

- BUCKMINSTER FULLER

HEKTARS 4 HACKER



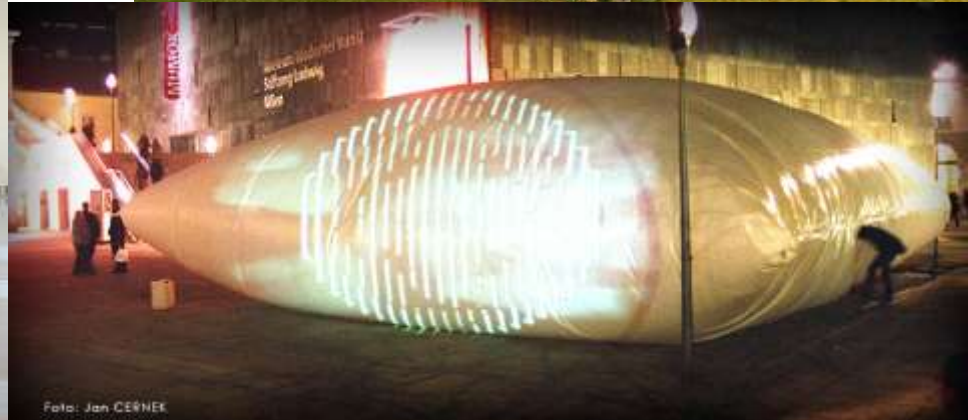
ARTISTS IN
RESIDENCE

FABLAB, CO-WORKING, PROJECT-SPACE, HOSTELO ?

Lateral Thinking



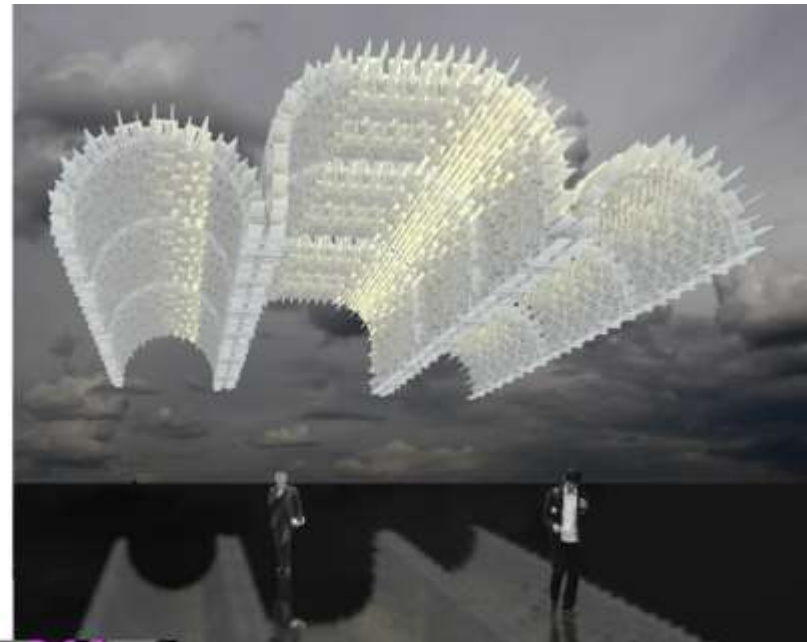
Open & experimental Architecture



OPEN ARCHITECTURE



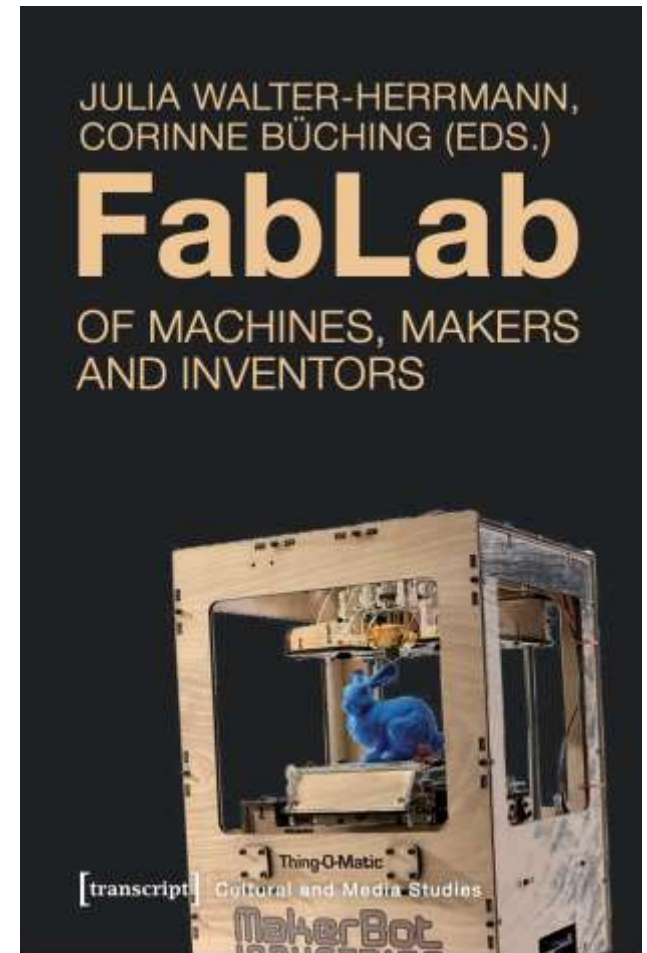
Iaac
Institute for
advanced
architecture
of Catalonia



OPEN HARDWARE NOW



Collective Book about OSHW ?



leopold.zyka@gmail.com

Empty Carpentry (Neighbour)-> Fablab ?



The future of mankind lies in cooperation



WANTED

- Active Members !
- €, \$, BTC, Faircoins...
- Python / Django CMS Developer
- Grafic & Design Support

contact@openlandlab.org