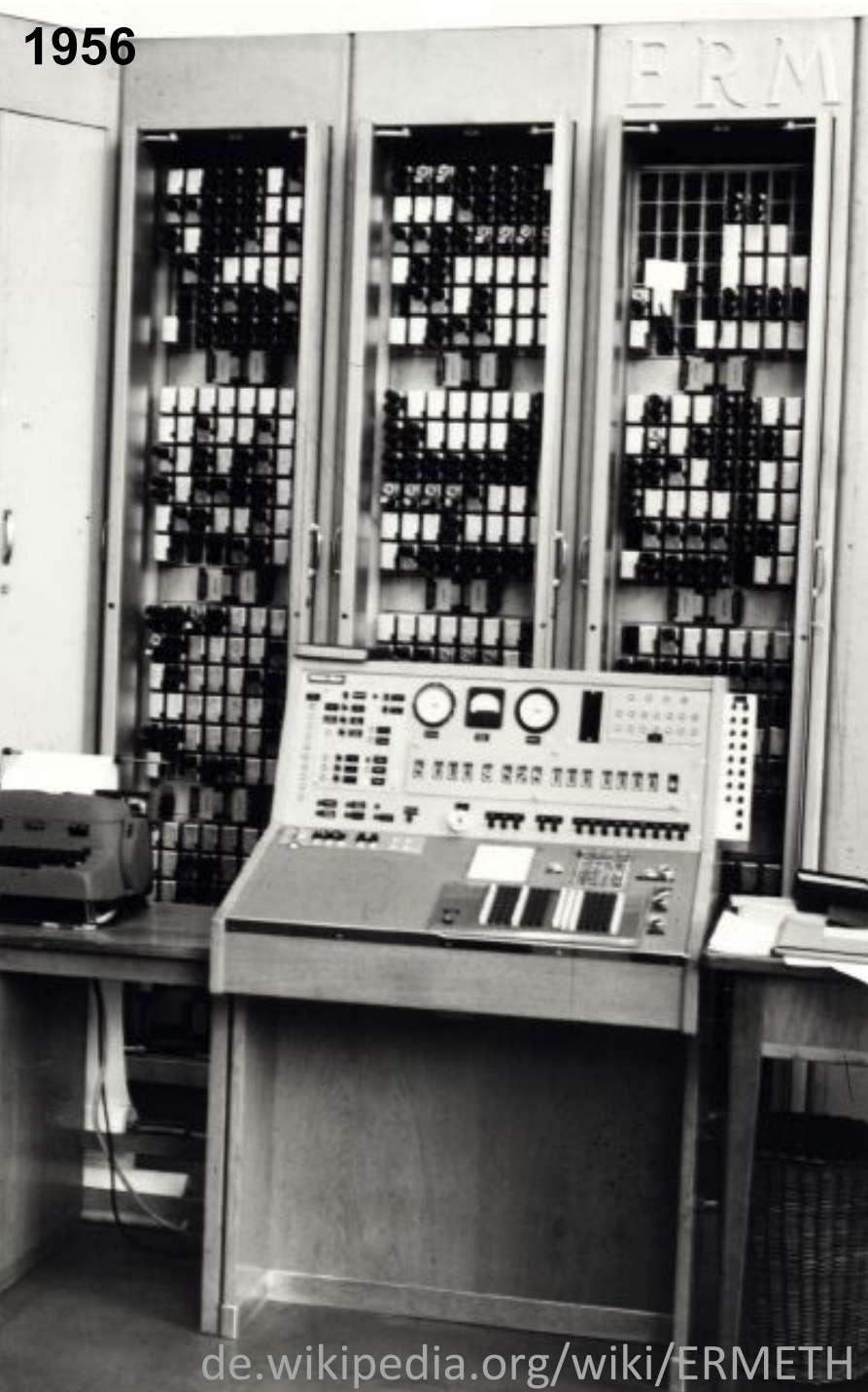


# IoT, Do-it-Yourself und Maker Bewegung

thomas.amberg@yaler.net

1956



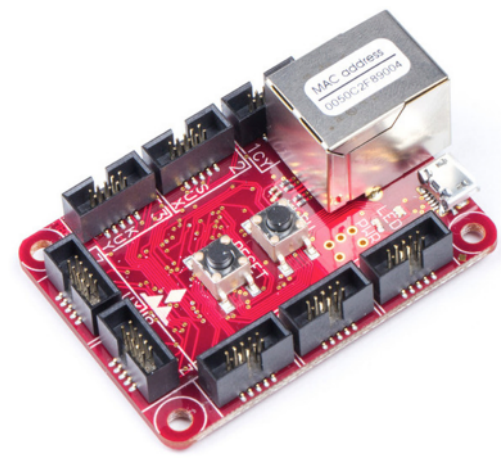
[de.wikipedia.org/wiki/ERMETH](https://de.wikipedia.org/wiki/ERMETH)

1990



Archiv D-INFK

2012



[mountaineer-boards.com](https://mountaineer-boards.com)



# Internet of Things (IoT)

Internet-verbundene Computer, mit Sensoren und Aktuatoren

Internet dringt in die reale Welt ein

Dinge werden zu Web-Services



withings.com



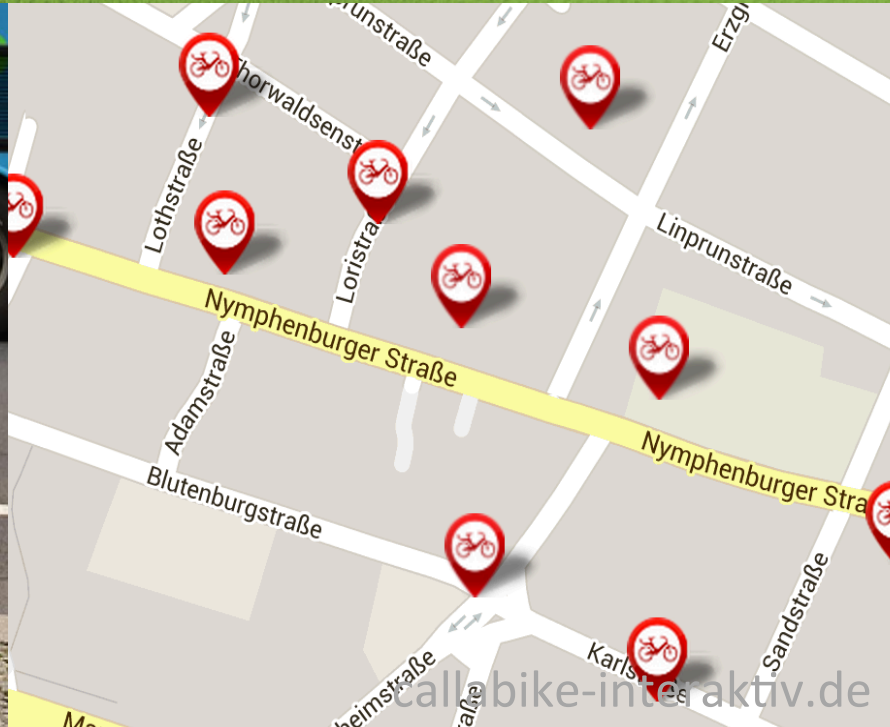
Visualize Your Progress



Play With Friends



nikeplus.nike.com





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Channels

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if  
**UP**

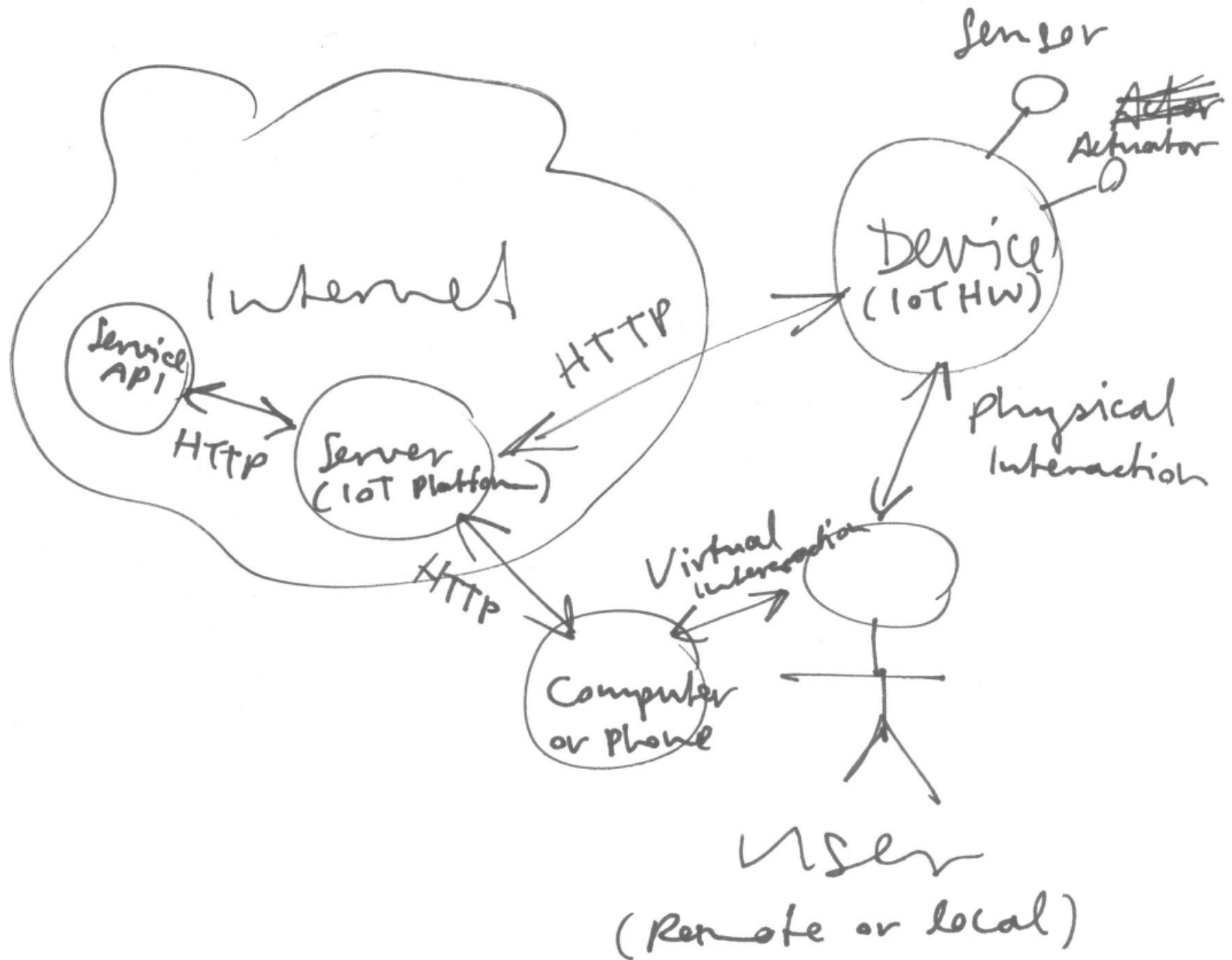
then



**When I don't get  
much sleep, text my  
colleague to let her  
know I'll be cranky.**









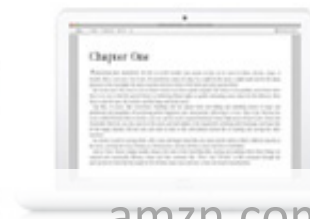
## Honda Jazz Hybrid



Economy

mobility.ch

"Buy once, read everywhere"



amzn.com/kindle

# Mike Kuniavski: Service Avatars



CC BY-NC-ND Martin Eian, Flickr



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Amazon Dash Button - Offi x


https://www.amazon.com/oc/dash-button/

amazon

PRODUCT OVERVIEWPOPULAR BRANDSHOW IT WORKSMAKERS AND INNOVATORS

# Place it. Press it. Get it.

Dash Button comes with a reusable adhesive and a hook so you can hang, stick, or place it right where you need it. Keep Dash Button handy in the kitchen, bath, laundry, or anywhere you store your favorite products. When you're running low, simply press Dash Button, and Amazon quickly delivers household favorites so you can skip the last-minute trip to the store.



## Popular brands and products

Choose from favorite household brands. Select your favorite pack sizes. [See selection](#)



SunPort – Demand Solar. A X

← → ↺ <https://www.kickstarter.com/projects/1275963200/sunport-plug-into-solar-power-no-panels-required/description> 🔍 ☆ ⚡ ☰

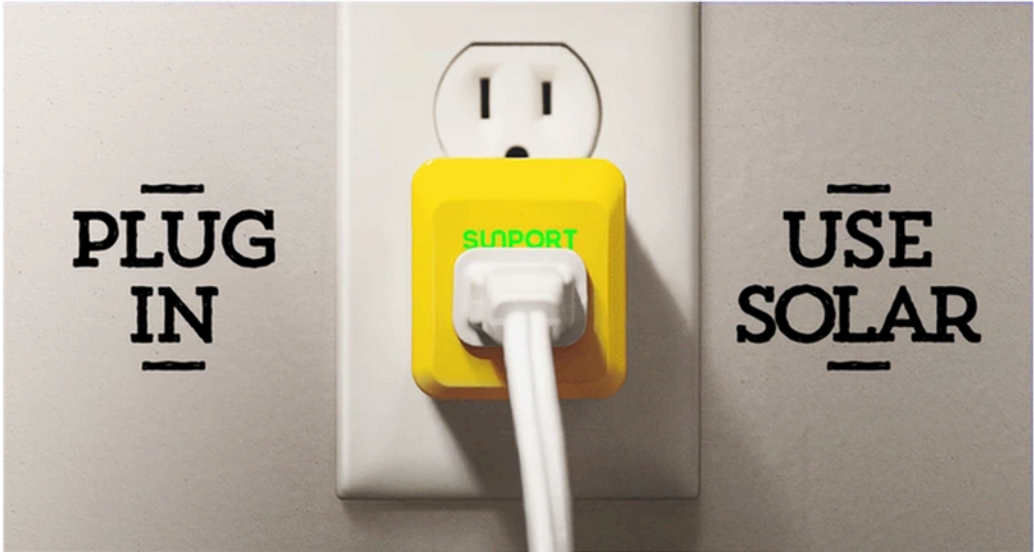
Campaign

Updates (6)

Comments (74)

Back This Project ☆

So how can you consume real solar without panels? You can't. Real solar only comes from panels, but you don't need to own them. SunPort "asks" the people with the panels for their solar by buying and consuming the solar credits their panels supply.



For just \$20 per year in solar credits, you can solar power anything you can plug into a SunPort, and each SunPort received through this campaign includes one year of unlimited solar to get you started.

🌱 148 backers

Limited (2 left of 150)

EARLY BIRD SUNPORT 4-PACK  
For the fast-moving solar fan with more than one power cord.

Includes four (4) SunPorts in your choice of colors (yellow, green, pink, or blue). Get one of each color or mix and match.

And each SunPort comes with one year of unlimited solar upgrades. That's 4X unlimited!

Estimated delivery:  
Mar 2016

Ships to:  
Only United States


Pledge \$179 or more

🌱 9 backers





SUNPORT 4-PACK  
You have more than one power

Find your people - Meetup

www.meetup.com/find/?allMeetups=true&radius=50&userFreeform=Zürich%2C+Switzerland&mcName=Zürich%2C+CH&la...

 **Find**  
a Meetup Group

**Start**  
a Meetup Group



### Your Next Meetup

JUN  
23

IoT Zurich

**Make IoT ZH at MechArtLab**

Tuesday, June 23 at 8:00 PM

26

Meetups in your groups

415

Meetups nearby

All Meetups

Q

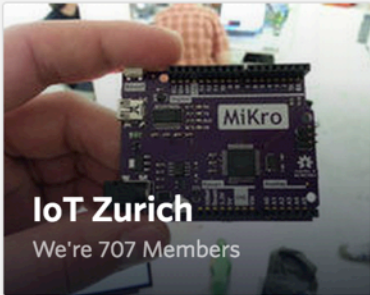
within 50 miles of Zürich, CH

Groups


Calendar

Your Meetups


Sort by Recommended



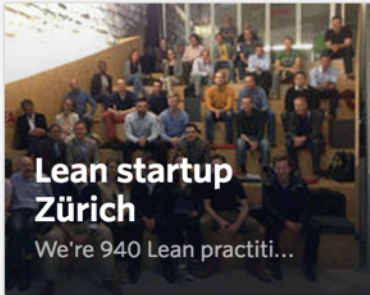
**IoT Zurich**  
We're 707 Members



**3D Printing Zürich**  
We're 348 Members



**Hardware Startup Zürich Meetup**  
We're 97 Members

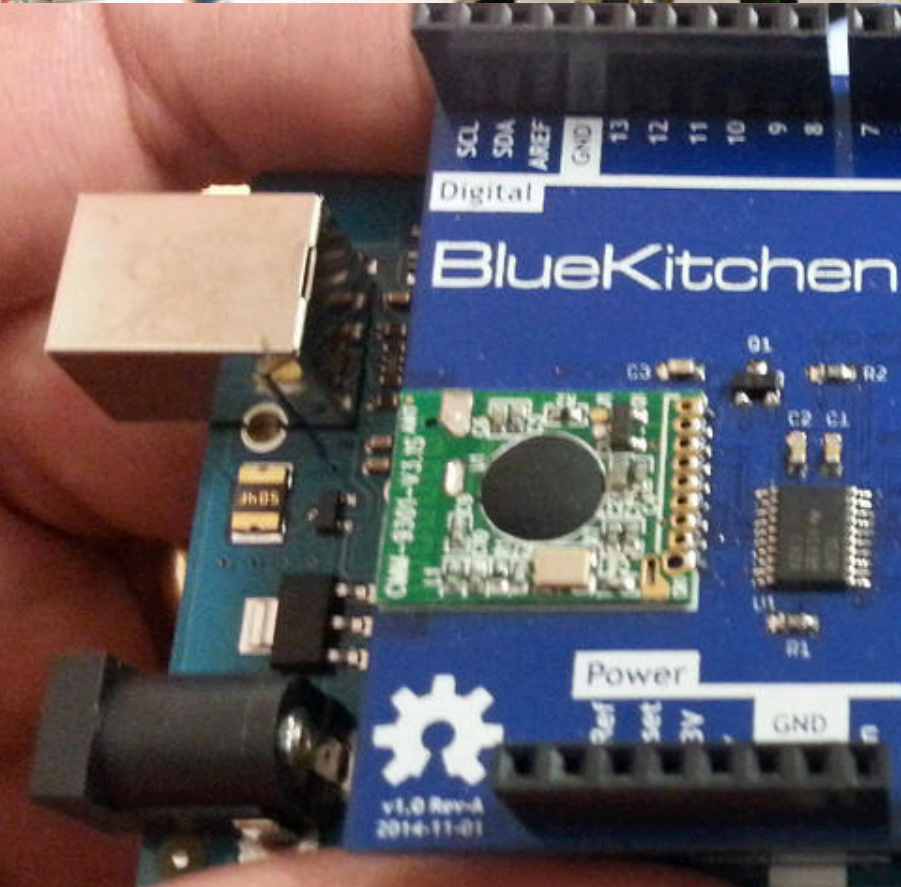


**Lean startup Zürich**  
We're 940 Lean practiti...





Boaz Heller, CC BY-SA

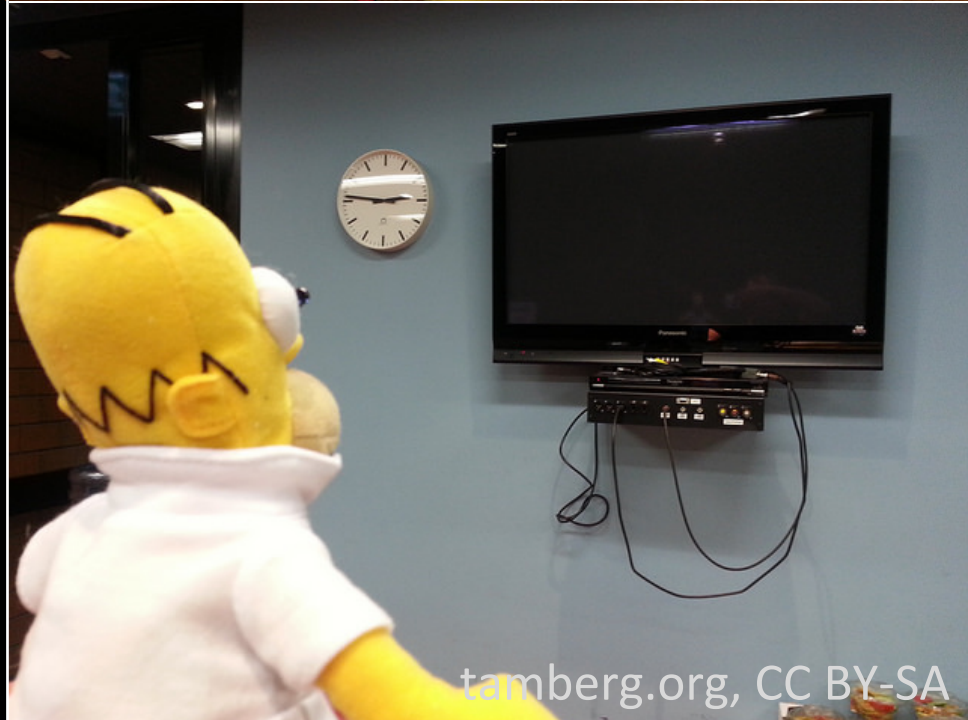
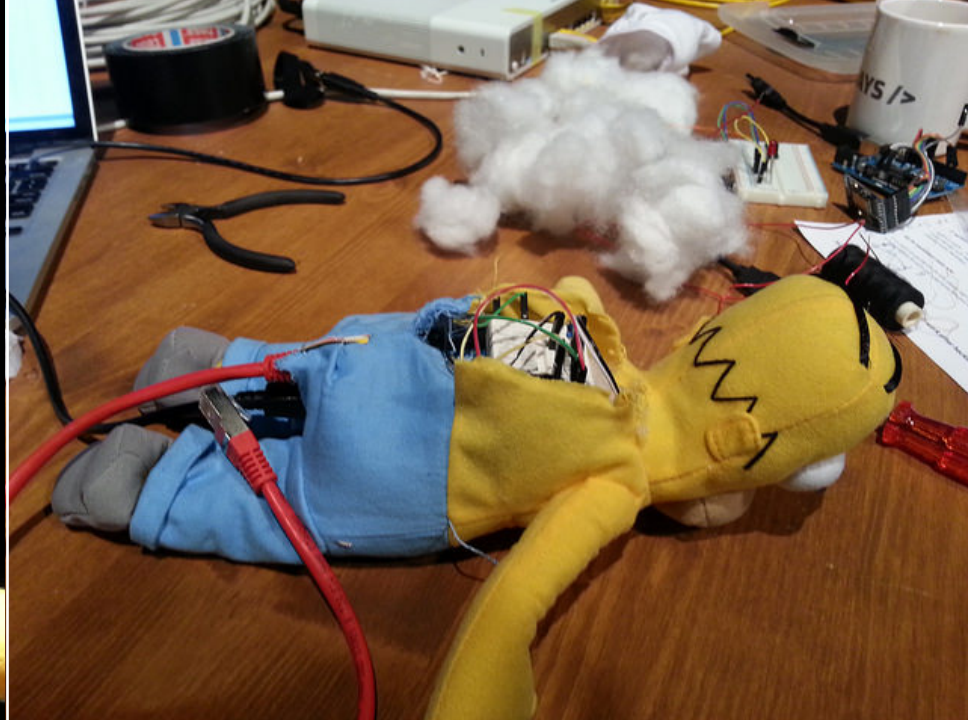


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Japan Geigermap: At-a-gla ×

## Japan Geigermap : At-a-glance

Search for an address:

Select data source:

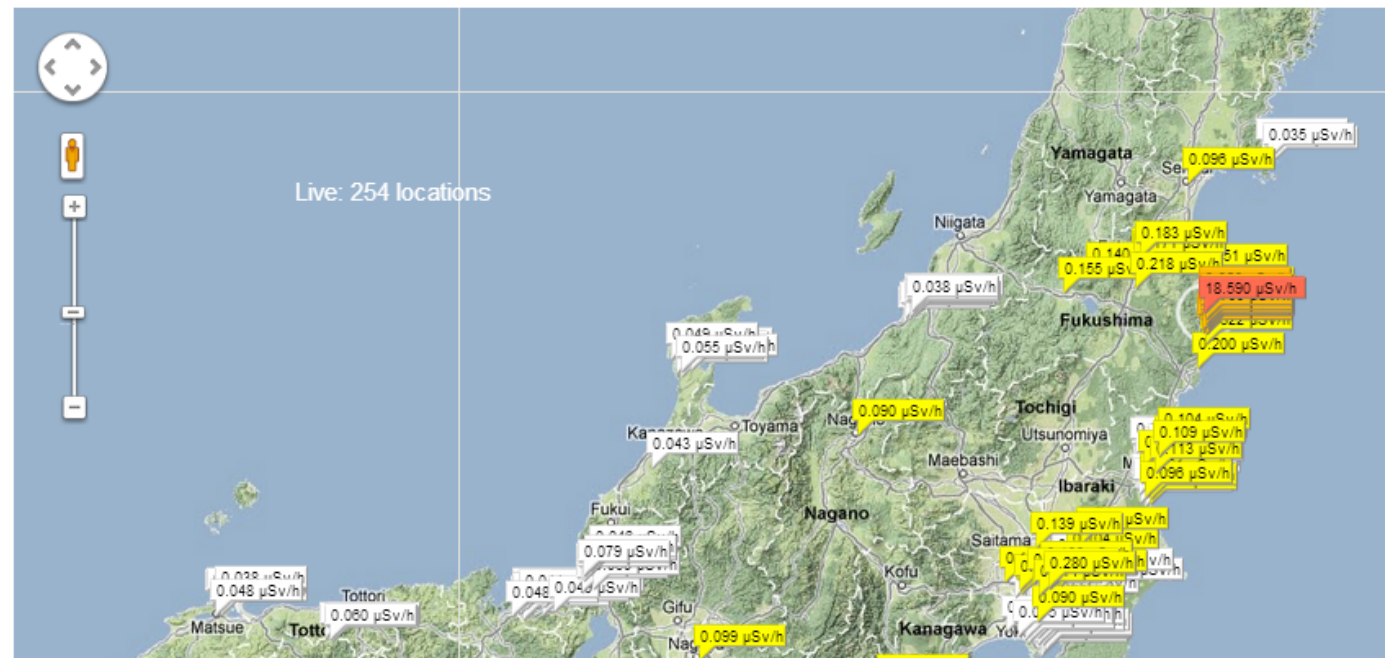
All data sources

 Safecast Fixed Sensor Network

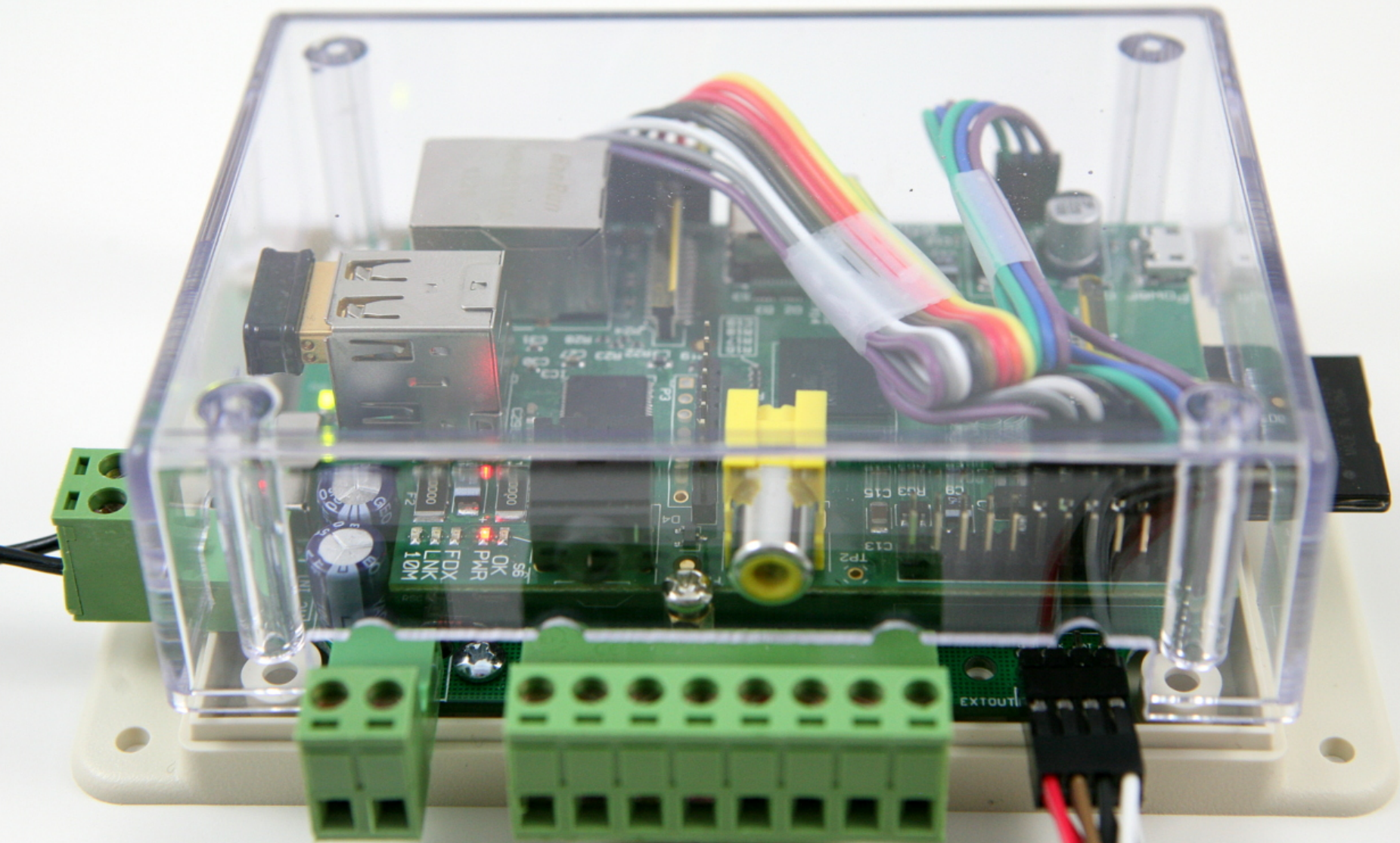
### Individual Geiger Counters

## Government Sensor Networks

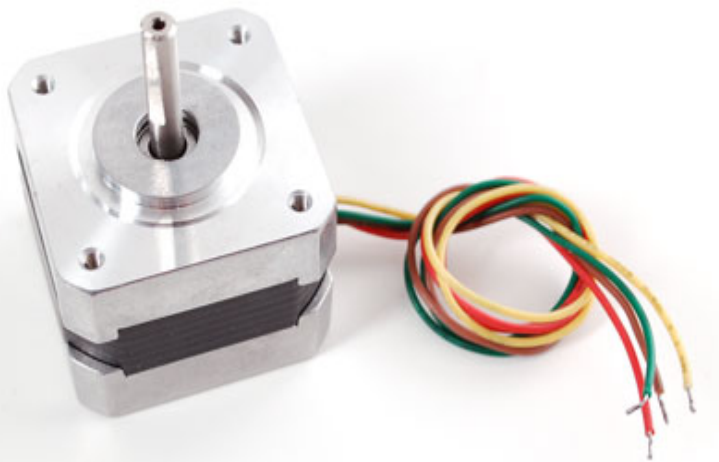
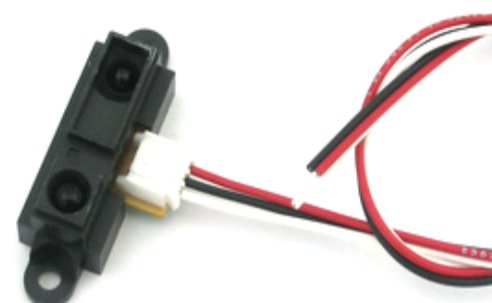
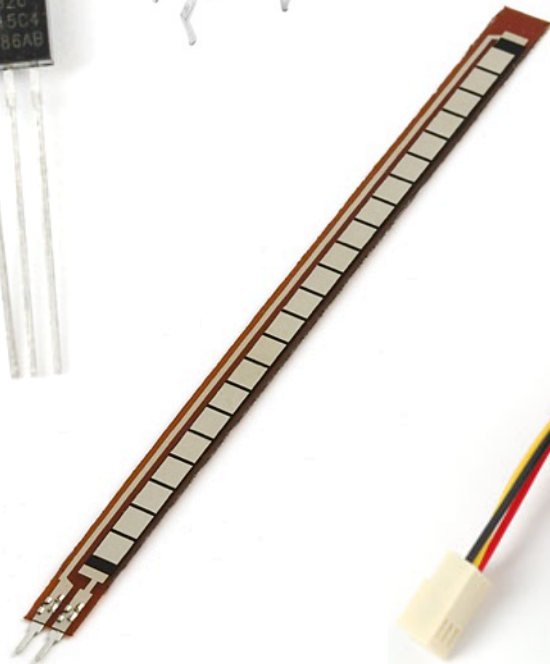
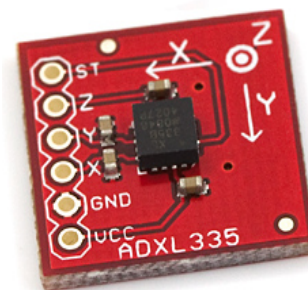
Sun, 2

























BRIEFING ROOM

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# A Nation Of Makers





# European Maker Faire







Massimo Banzi

Intel CEO Announces Colla x

newsroom.intel.com/community/intel\_newsroom/blog/2013/10/03/intel-ceo-announces-collabo

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## Intel CEO Announces Collaboration with Arduino to Inspire Creativity, Learning and Invention with Makers and Students

Posted by [IntelPR](#) in [Intel Newsroom](#) on Oct 3, 2013 4:00:10 AM

### Introduces First Intel-Based Arduino-Compatible Development Board; Announces Donation to 1,000 Universities Worldwide

MAKER FAIRE ROME, Oct. 3, 2013 – Intel Corporation CEO [Brian Krzanich](#) today announced a collaboration agreement with [Arduino LLC](#), the leading open-source hardware platform in the maker and education community. Krzanich also unveiled the Intel® Galileo board, the first product in a new family of Arduino-compatible development boards featuring Intel®



Arduino.cc

2nd\_generation\_core appup  
appup\_center  
consumer\_core core\_i5 core\_i7  
education intel processors  
research software  
technology



# London Tech City



Alexandra D-S



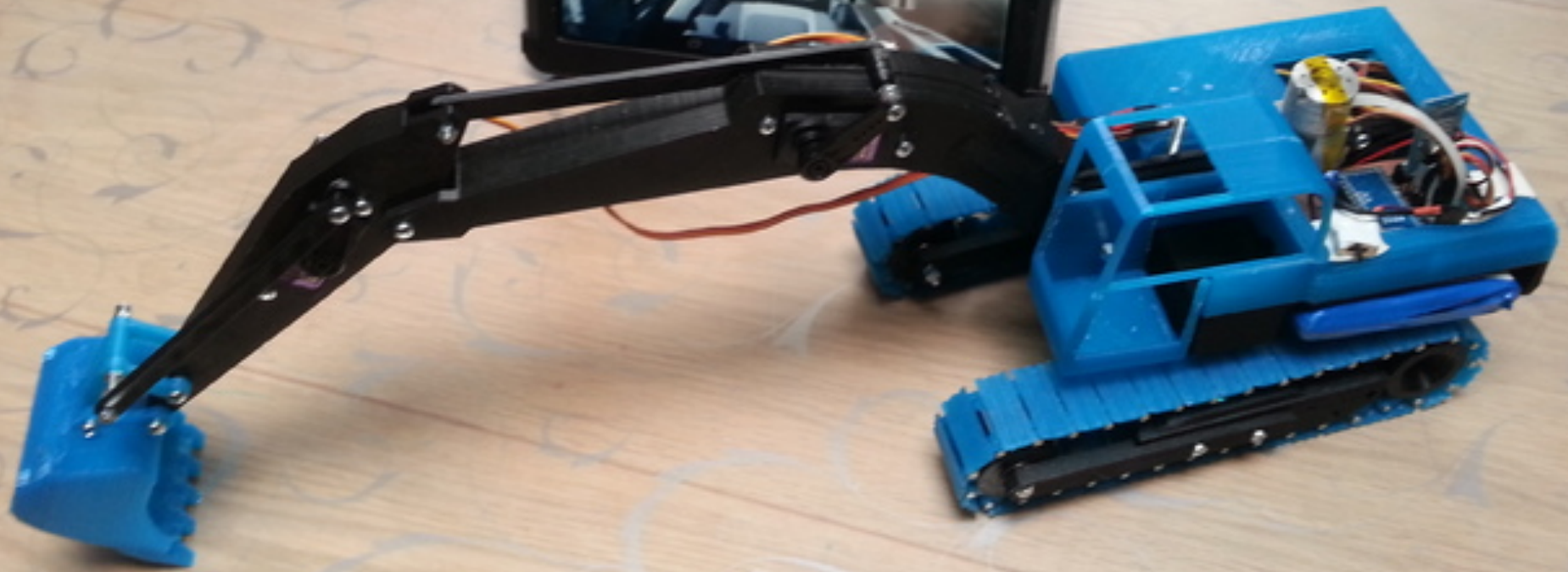
5600+ Members



# Fab Lab Zürich

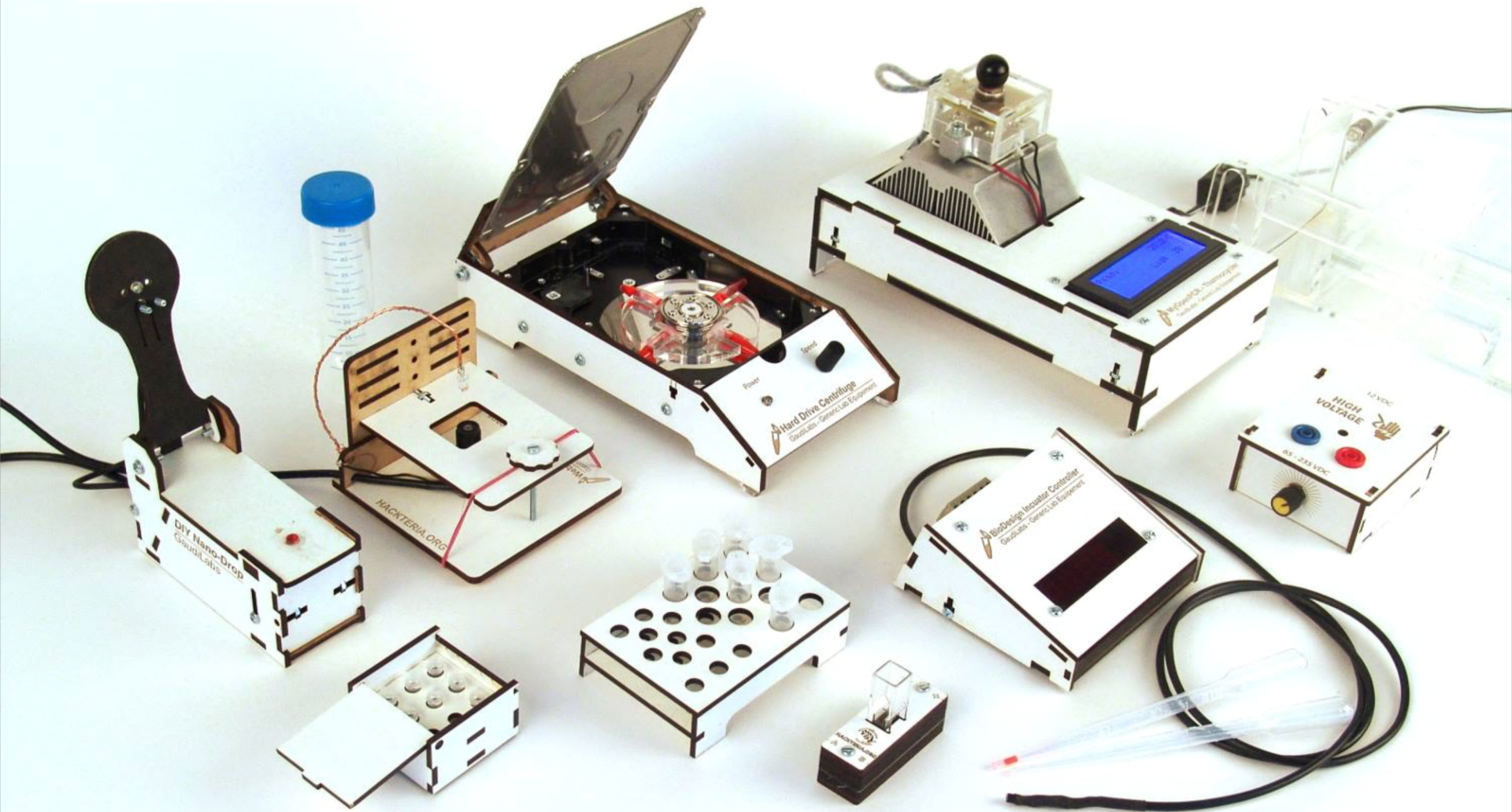


# 3D Printed Remote Controlled Toy

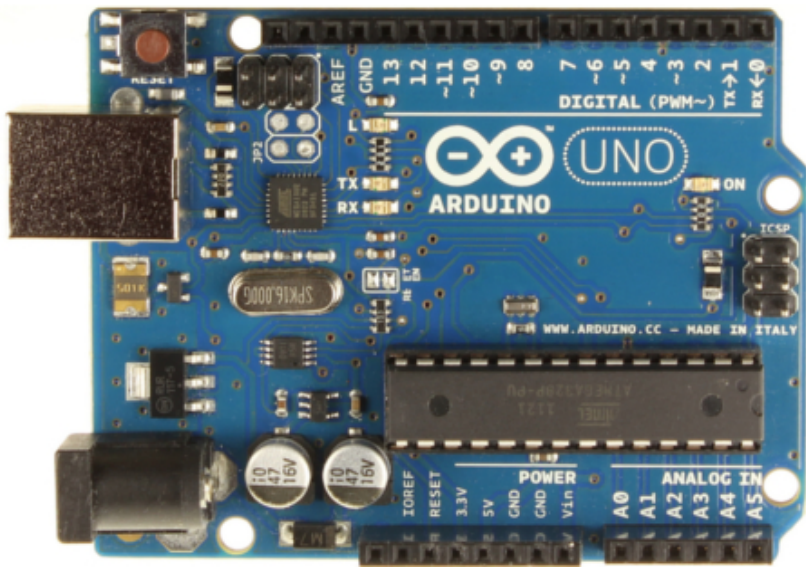




# Laser-cut DIY Bio Lab Equipment



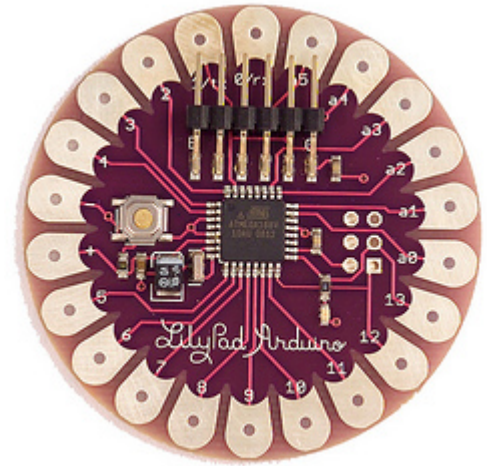




[arduino.cc/en/Main/arduinoBoardUno](https://arduino.cc/en/Main/arduinoBoardUno)



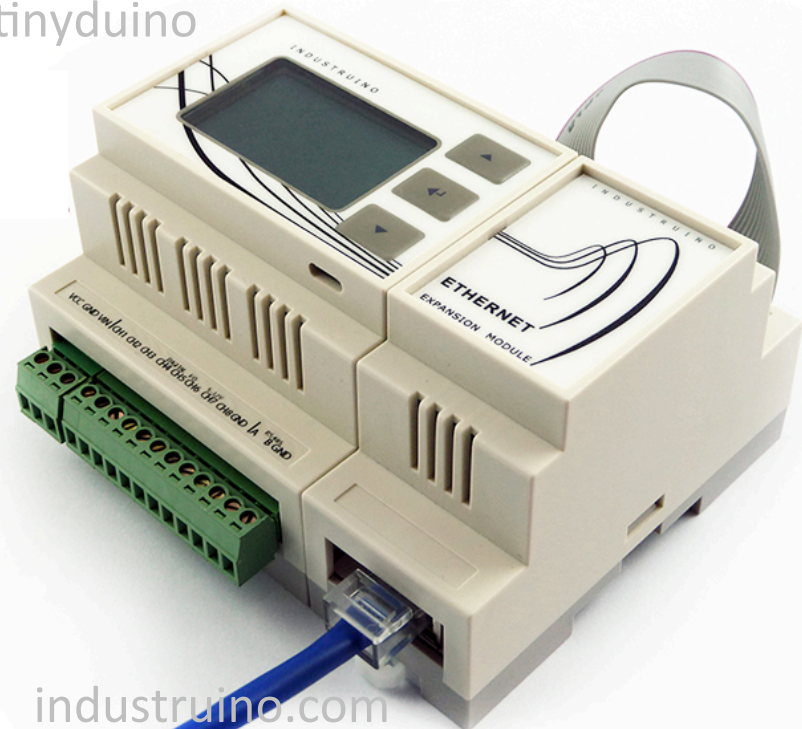
[tiny-circuits.com/products/tinyduino](https://tiny-circuits.com/products/tinyduino)



[arduino.cc/en/Main/ArduinoBoardLilyPad](https://arduino.cc/en/Main/ArduinoBoardLilyPad)

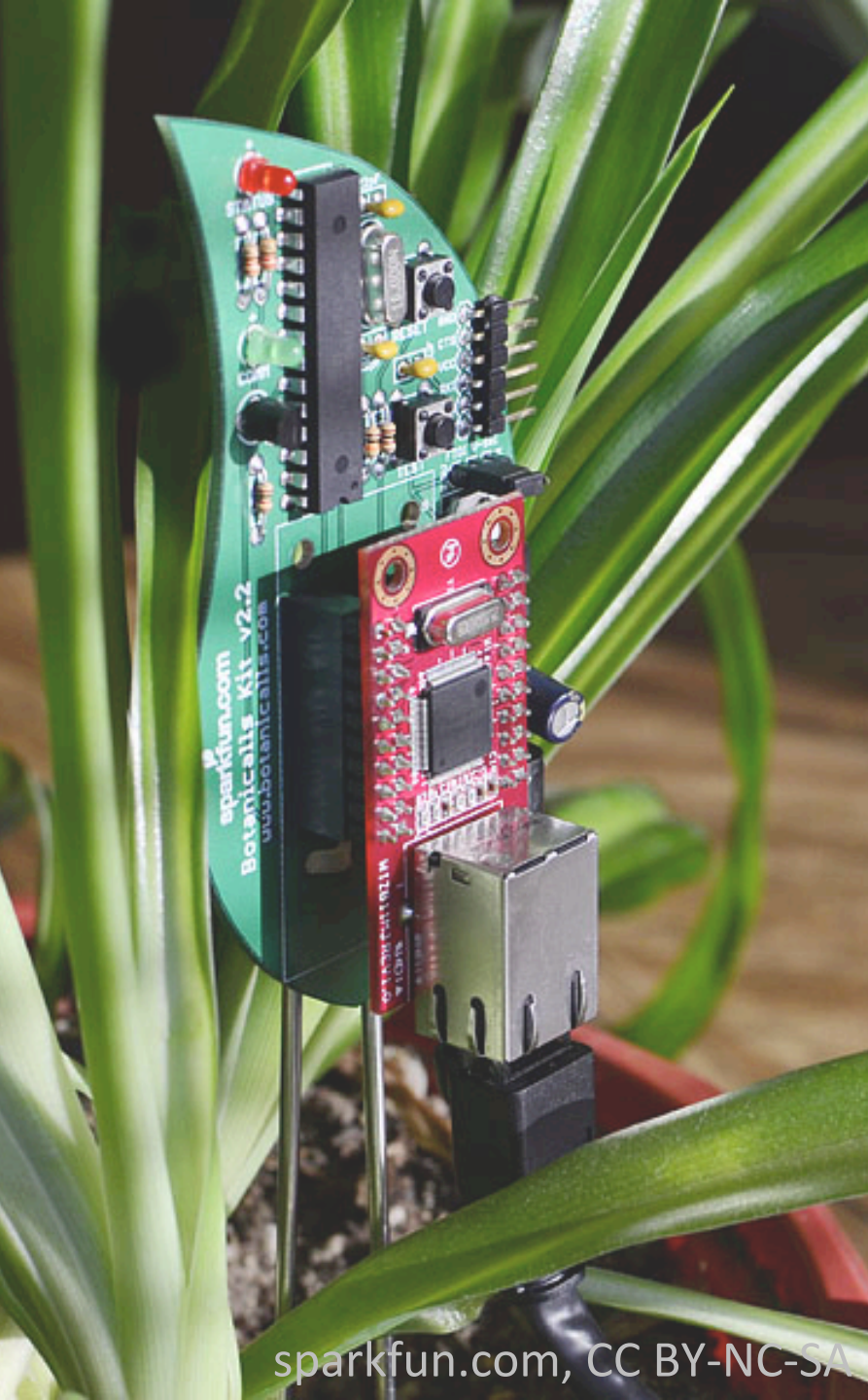


[hlt.media.mit.edu/?p=2182](https://hlt.media.mit.edu/?p=2182)

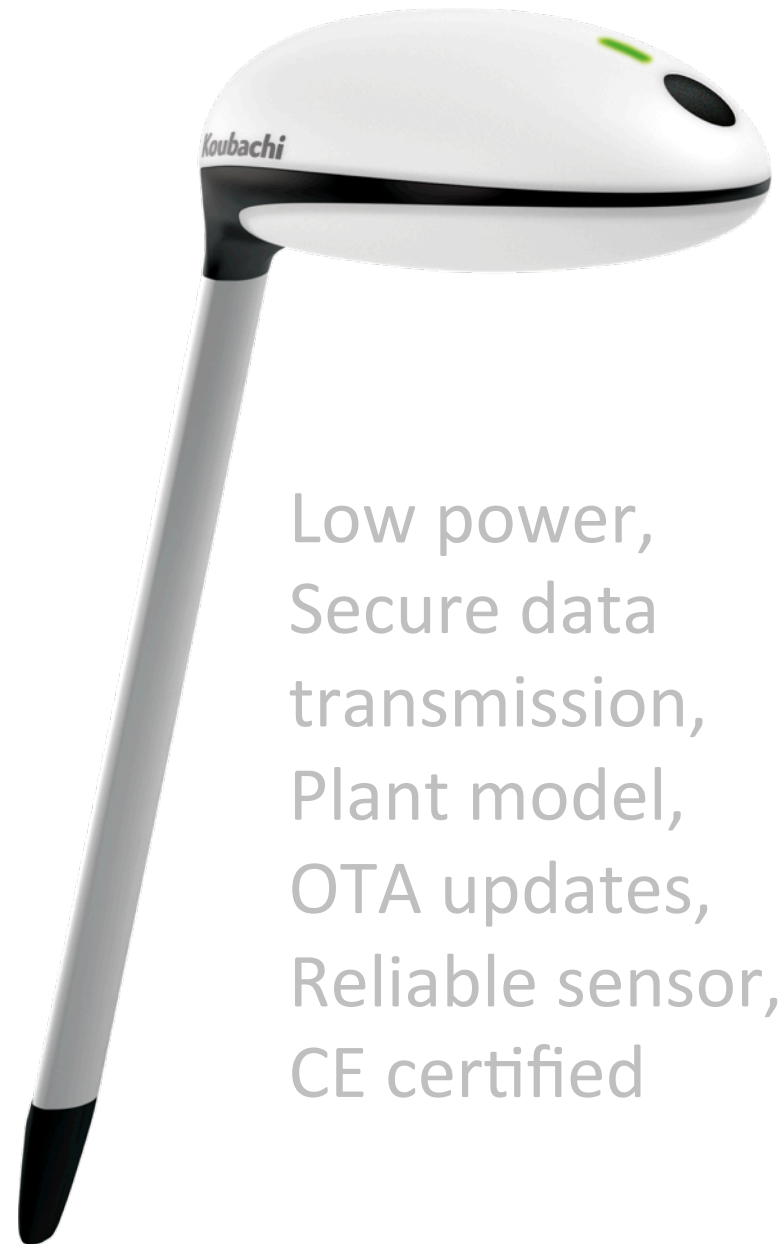


[industruino.com](https://industruino.com)





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# HAXLR8R is a new kind of accelerator program.

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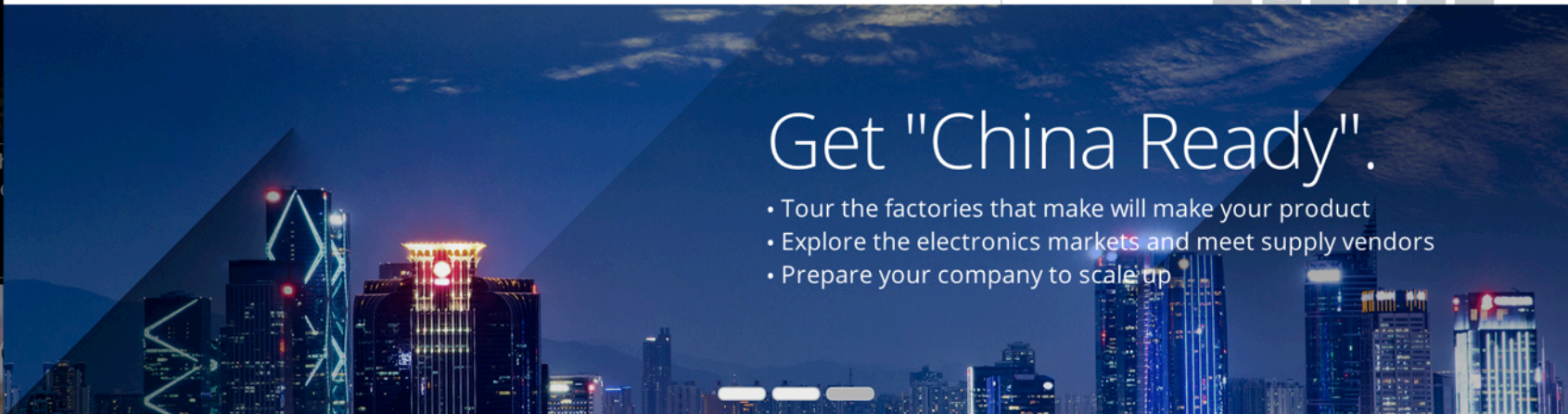
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# Made with China

KADDZ

Kaufen

Aktuell

Fotos

FAQ

DE

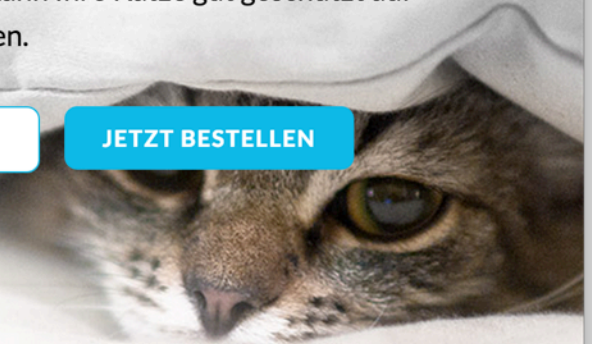


## KADDZ – das smarte GPS Halsband für Katzen

Katzen sind neugierig und lieben ihre Freiheit. Mit dem KADDZ Halsband kann Ihre Katze gut geschützt auf Entdeckertour gehen.

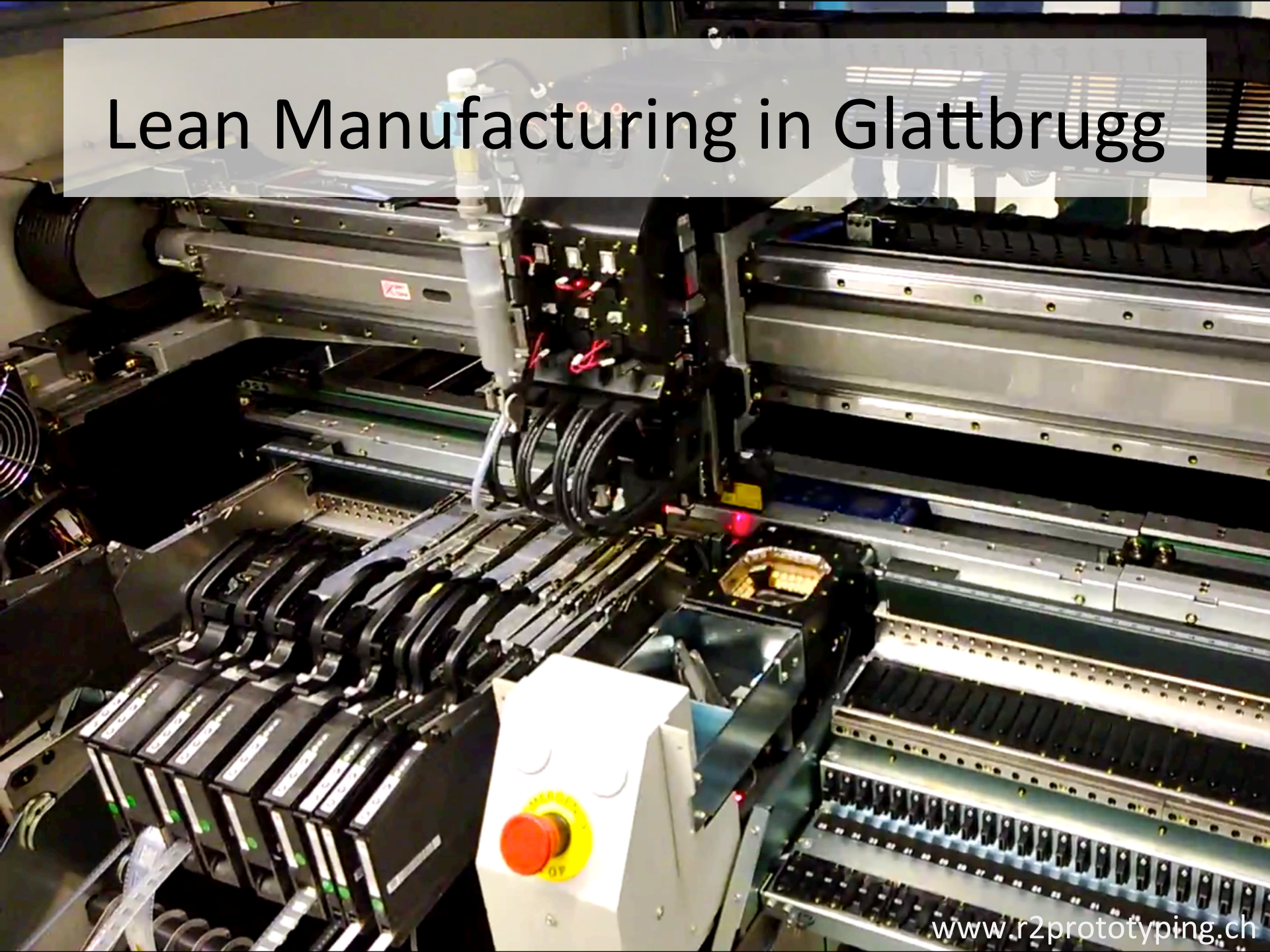
MEHR ERFAHREN

JETZT BESTELLEN





# Lean Manufacturing in Glattbrugg









# Standards? Epic Struggle

Welcome to **openHAB** - a vendor and technology agnostic open source automation software for your home.  
Build your smart home in no time!

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Technologies

Resources

Programs

Support

Member Center



## HomeKit

HomeKit is a new framework for communicating with and controlling connected devices in a user's home. Apps can enable users to discover devices in their home and configure them, or you can create actions to control those

CogniToys Leverages Watson's

spectrum.ieee.org/tech-talk/consumer-electronics/gadgets/cognitoys-leverage-watsons-brains-to-teach-your-kids


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Tech Talk | Gadgets | Consumer Electronics

# CogniToys Leverages Watson's Brain to Befriend, Teach Your Kids

By Evan Ackerman  
Posted 20 Feb 2015 | 0:19 GMT

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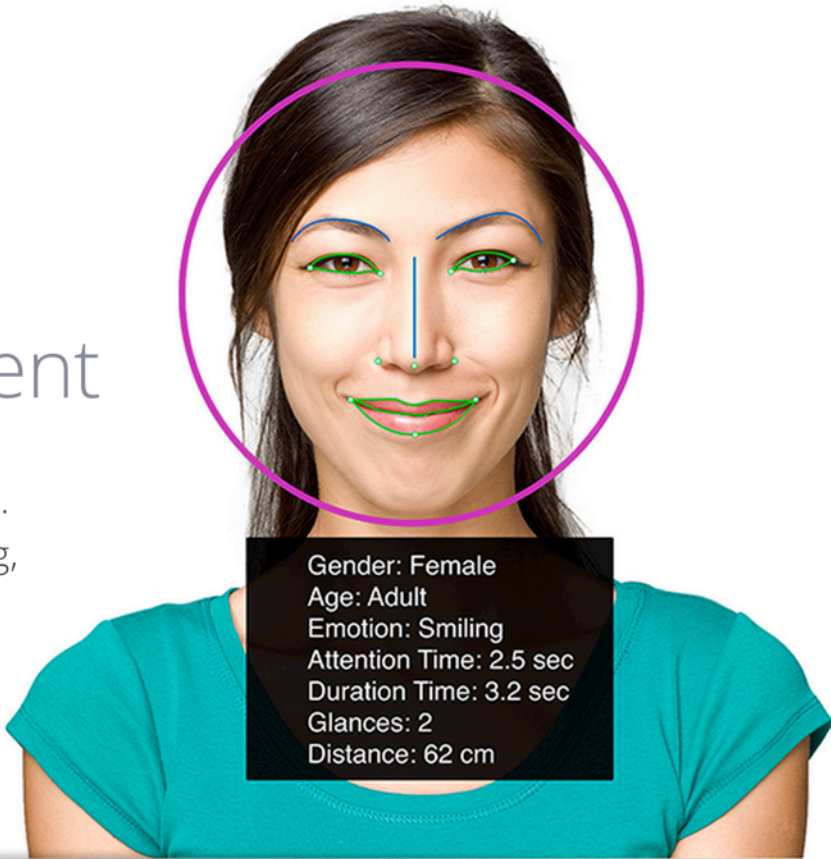
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Glances: 2  
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SceneTap | View Age, Crow...

scenetap.com

SceneTap

Augusta, ME

Map

Places

Pictures

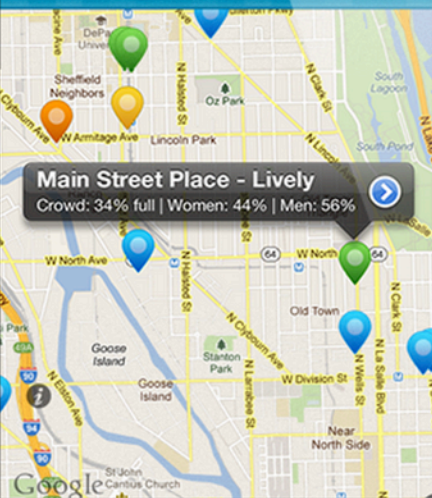
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Sign Up

# SceneTap lets you check out the scene in real-time.

VIRGIN 3G 4:17 PM

SceneTap



Main Street Place - Lively

Crowd: 34% full | Women: 44% | Men: 56%



Main Street Place

64% Full

Hoppin'

68%

32%



29yrs




Avg Age

26yrs

## What is SceneTap?

With the tap of a button, view information on how many people are at a place, the male to female ratio, and the average age of everyone inside.

 Start using desktop app 

 Download mobile app  

[Learn more about SceneTap here](#)





Yaler.net - access devices

Yaler.net

StatusDocs & HelpPricing & Sign upLog in

# Access devices from the Web

Yaler provides a **relay infrastructure** for secure, controlled and manageable **access to embedded systems**.

Get Started with Yaler

## Makers, small business and enterprise customers rely on Yaler

Our customers use Yaler in building and home automation, environmental monitoring, tele-medicine and many other fields.

SIEMENS

PHONAK

decentLab

ZAAK  
ZURICH

### Why Yaler?

(relay spelled backwards)

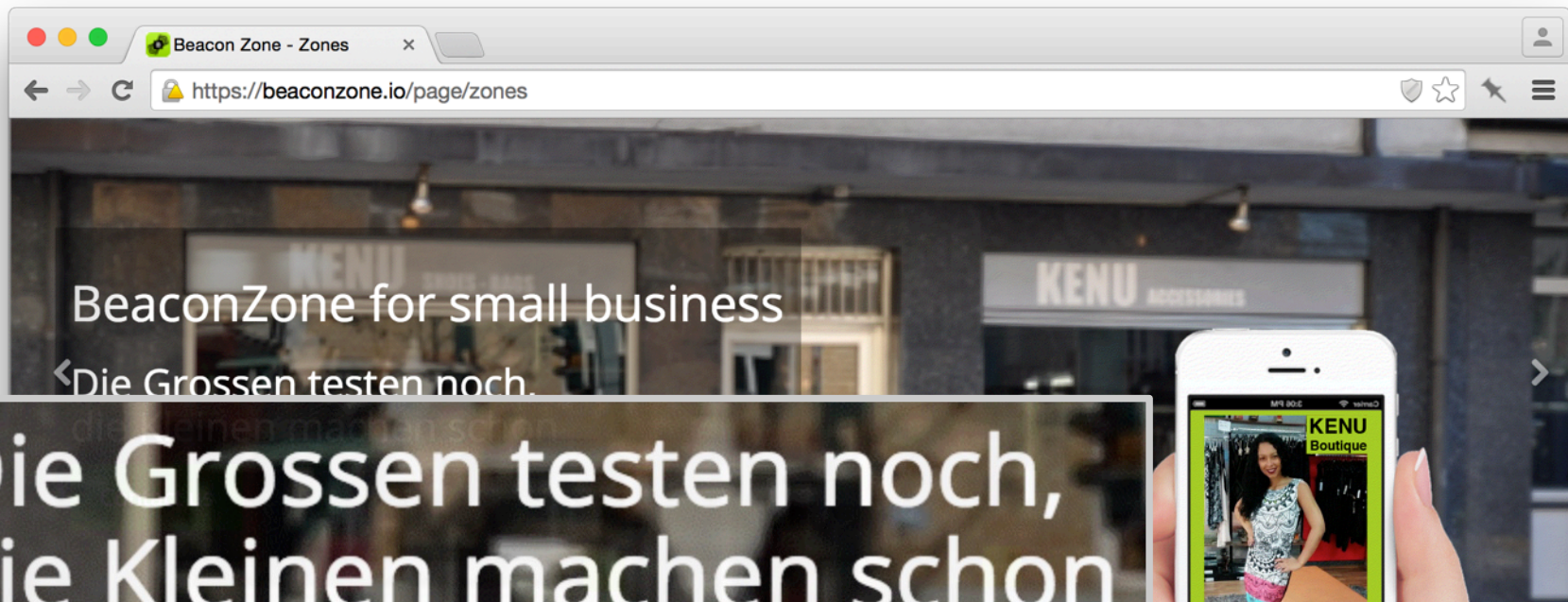
#### Connectivity as a service

Get secure Web and SSH access to your embedded systems, no matter if they're located behind a firewall, a NAT or a mobile network router. Pay-per-use, with premium enterprise support.

### How it works

```
graph LR; Client[Web client] --> Server[Server]; Server -- "Secure Web access to device" --> Device[Your device]
```





## Das Pilotprojekt

Fakten | Zahlen | Ziele



#WiedikonValley

# #WiedikonValley

Sprung in die Gegenwart  
Wiedikon ist im Wandel und voll von  
schönen alten Wiedentrachten. Heute  
Zeit, den Schmelzdegel von Tradition und  
Moderne im Herzen von Zürich zu  
entdecken: **#Start-up #KMU #Smart**



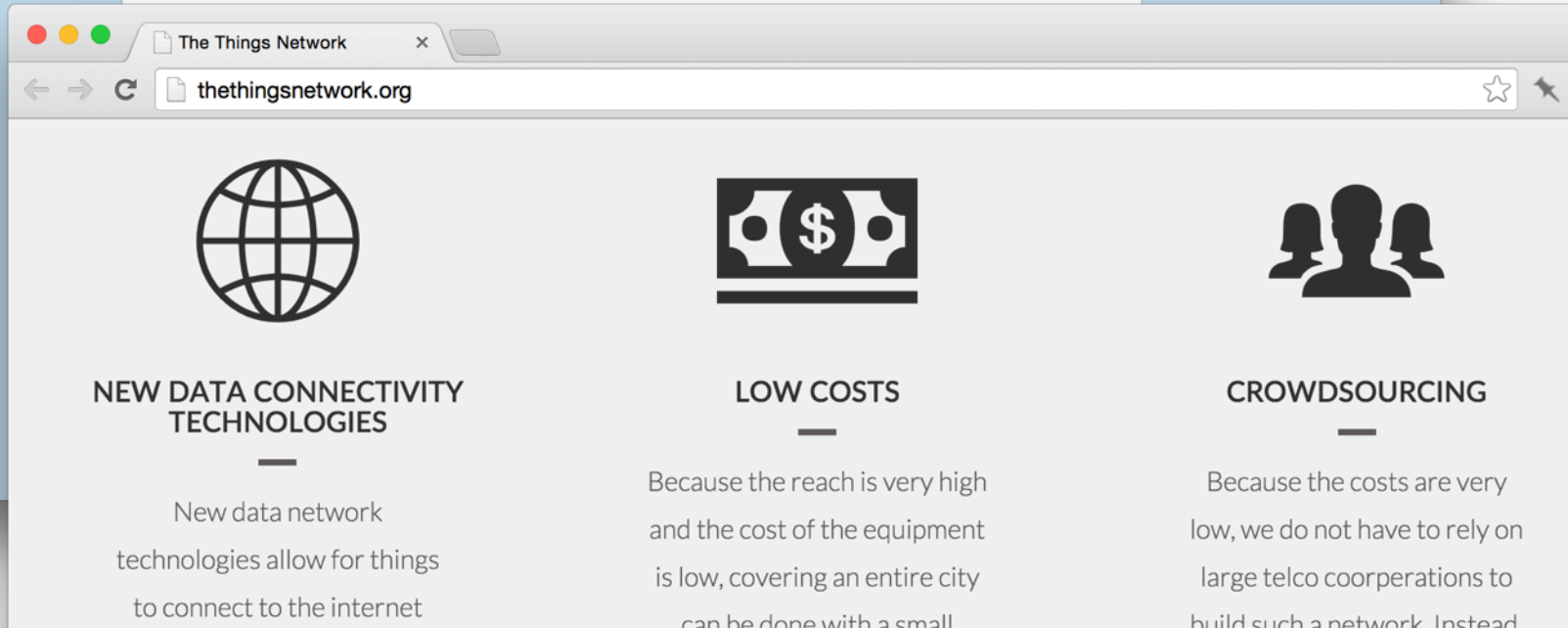
Digito ergo sum

Smartphones erreichen Menschen  
4,8 Millionen Menschen in der Schweiz  
verlassen sich auf ihre Smartphones als  
ständige Begleiter. **Projektthese:** wenn  
etwas auf dem Smartphone stattfindet,  
wird es in der "Realität" oft erst



BeaconZone

20 Pioniere gestalten den Wandel  
iBeacons sind die Vorboten des Internets  
der Dinge oder eine Brücke vom  
physischen in den digitalen Raum. 20  
Geschäfte in Wiedikon verbinden sich mit  
Bluetooth-Sendern und einer





Danke.

thomas.amberg@yaler.net

twitter.com/tamberg

yaler.net

Slides auf [goo.gl/hC79XB](https://goo.gl/hC79XB) →

Workshop am 2.9.

