

# Capteurs Citoyens & Citoyens Capteurs

Table ronde "Air Quality meter- smart tech meets  
citizen science" - BRAL - 18/10/16



# Projets de capteurs citoyens dans le monde



@SmartCitizenKit

@ik\_adem

@safecast

@HabitatMap

@arrayofthings

@sensebox\_de

@paccotest

@Plume\_Labs

@CleanSpace



H2020

@hack\_air

@MakingSenseEU

# Projet Smart-Citizen

[smarcitizen.me](http://smarcitizen.me)

[docs.smarcitizen.me](http://docs.smarcitizen.me)

[developer.smarcitizen.me](http://developer.smarcitizen.me)

[making-sense.eu](http://making-sense.eu)

Futur ?

In collaboration with

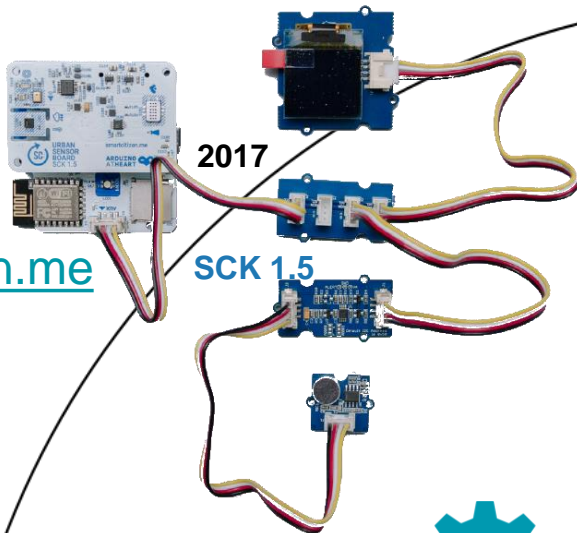


waag society

institute for art, science & technology



**LoRaWAN**



2017

SCK 1.5

2016



making-sense.eu

SCK 1.1



open source hardware

CC-by-nc-sa & GPLv3



2012



14k€

SCK 1.0

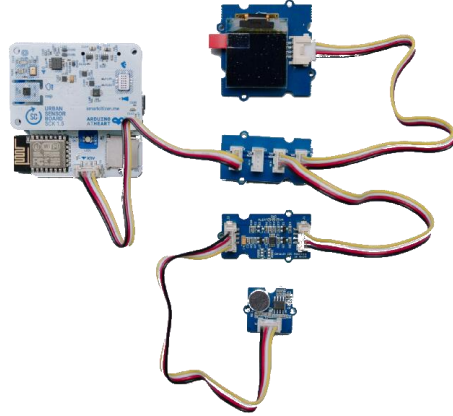


2013



68k\$

# SCK v1.5



Disponible début 2017

Capteurs de **CO**, **NO<sub>2</sub>**, Lumière, Bruit, Température et Humidité

Connectivité Wifi, Batterie, Alimentation par panneau photovoltaïque ou USB

Connecteur pour capteurs Grove

System ( [wiki.seeed.cc/Grove\\_System](http://wiki.seeed.cc/Grove_System) )



Open Source Beehives @OSBeehives · 31 mai

Installing a modified @SmartCitizenKit in one of our Barcelona Warré hives at @valldauralabs #savethebees

SmartCitizenKit a retweeté

Aquapioneers @aquapioneers · 30 sept.  
@aquapioneers+@SmartCitizenKit = Open Tech for locally productive & globally connected #aquaponic community ? stay tuned :) #citizenscience

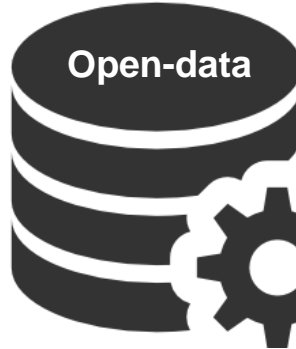
IaaC, Green Fab Lab, Tomas Dlez et 6 autres



# Plateforme

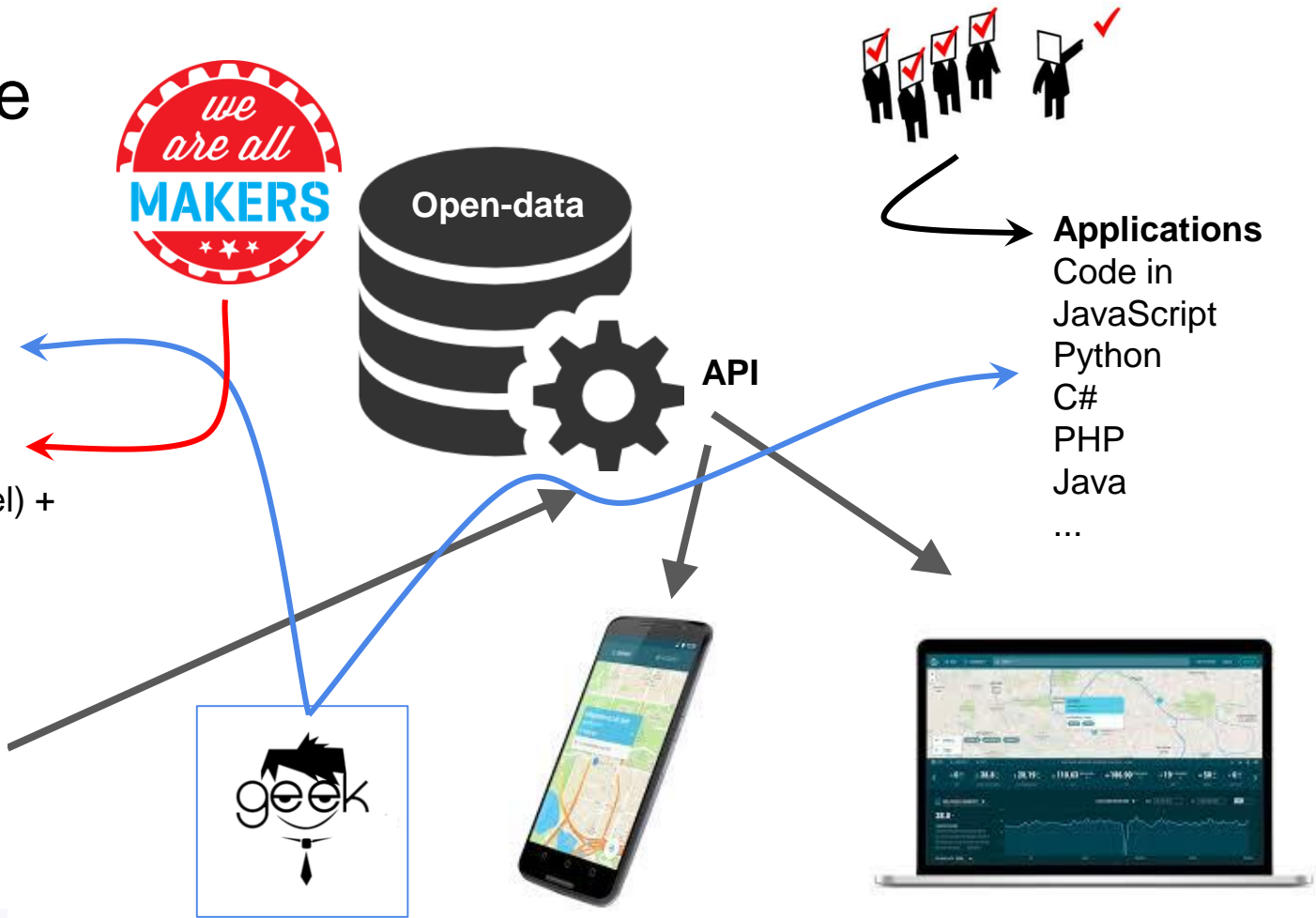
**SCK =**

Sensor Board +  
Processor Board +  
Arduino Code +  
Battery +  
Enclosure +  
(Photovoltaic Panel) +  
(Grove Sensors)



**Applications**

Code in  
JavaScript  
Python  
C#  
PHP  
Java  
...



# Making Sense ( <http://making-sense.eu> )



## OUR MISSION

Making Sense is a project that will run for two years between 2015 and 2017.

We aim to explore how open source software, open source hardware, digital maker practices and open design can be effectively used by local communities to fabricate their own sensing tools, make sense of their environments and address pressing environmental problems in air, water, soil and sound pollution.



Joint Research  
Centre



FabLab  
Network

Iaac

laac



waag society

Waag  
Society



Peers Educators  
Network



University  
of Dundee

## HOW WE'RE DOING THIS



### SENSING

Open source technologies that gather environmental data

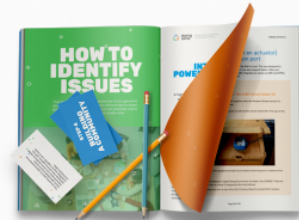
With communities across Europe, we will be co-creating sensors & devices that use the **Smart Citizen platform** to capture environmental data.



### AWARENESS

Enabling and designing platforms for collective sensemaking

We'll be testing tools and methodologies for *making sense* of data in pilots in **Amsterdam, Barcelona & Prishtina**, and raising awareness of social and environmental issues.



### ACTION

Moving on a trajectory from awareness to positive change

With the pilot learnings we will develop the **Making Sense toolkit** - a manual to organise citizen sensing campaigns for positive social change.





<http://greenfab.brussels>

<https://twitter.com/greenfabbxl>

<https://www.facebook.com/greenfab.brussels/>

<https://smartcitizen.me/kits/3443>

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A screenshot of a web browser displaying the Smart Citizen website. The browser's address bar shows the URL "https://smartcitizen.me/kits/3443". The website's header includes a search bar with the text "ecololo" and a "GET YOUR KIT" button. Below the header is a map of Schaerbeek, Belgium, showing a location marker for "ecololo@home". The marker's information box displays "SmartCitizen Kit 1.1" and "a few seconds ago". The map also shows various landmarks and roads, including "N201", "N2", "E40", and "Parc Josaphat". The website's footer includes a "Feedback" button.