

PSSOH & DescOn 6.0 Workshop

“How to assemble Klimerko?”
October 31st 2020

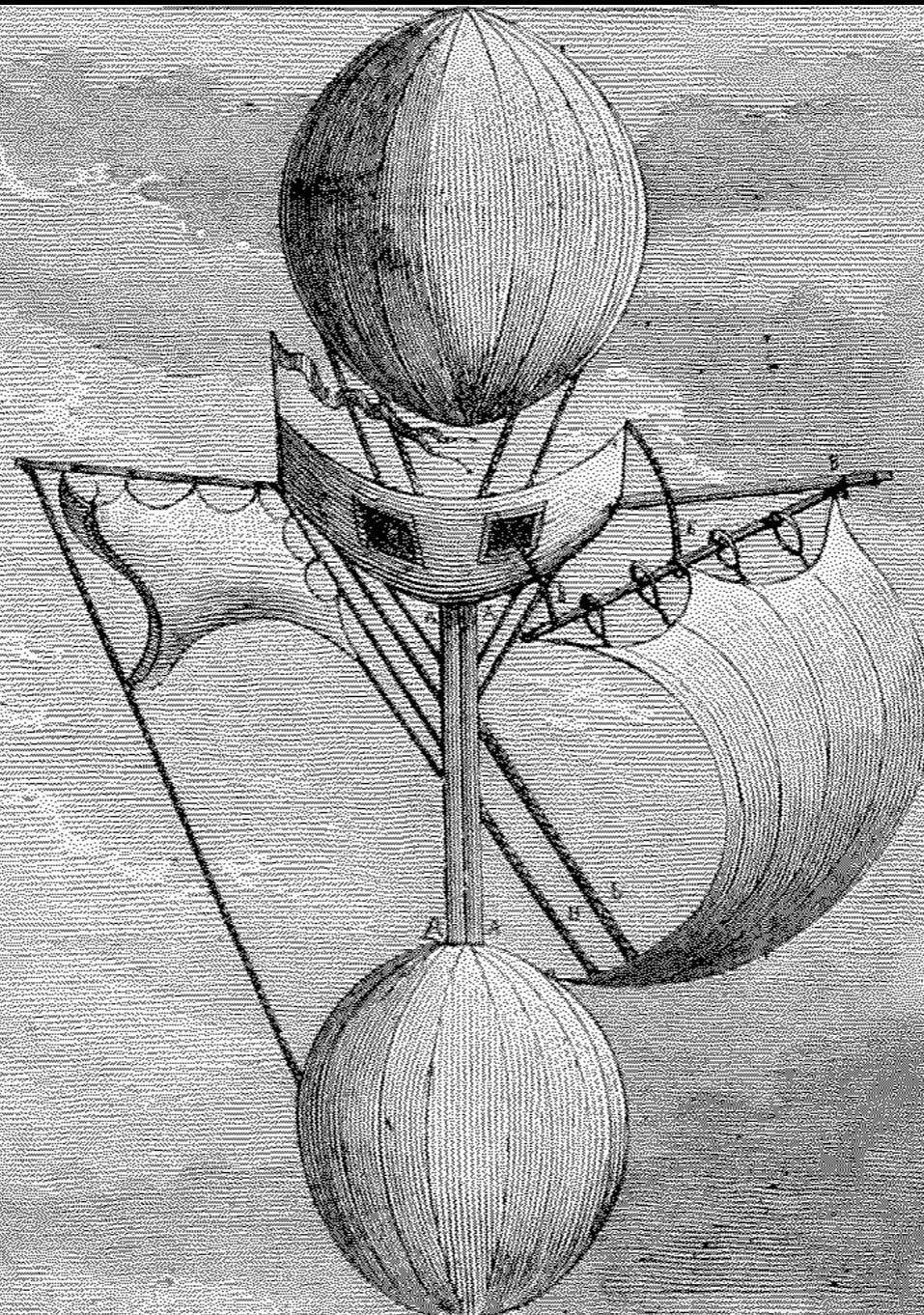
By Željka Desiree Milošević & Vanja Stanić
The ETF, University of Belgrade

#DESCON 6.0

DESCON 6.0

ONLINE EDITION

OCT 27-31



Climate change,
sustainability and low-tech



Icebergs melting, seas getting warmer...

Pollution is everywhere..

Existential challenge to rebuild and redesign the entire society with long-term sustainability in mind.



River gets a Legal Right of a Human

2017, New Zealand

<https://www.npr.org/sections/thetwo-way/2017/03/16/520414763/a-new-zealand-river-now-has-the-legal-rights-of-a-human>

Our responsibility

Lee Felsenstein's (maker of 1st personal computer) Medium Article* - advice to Greta Thunberg and friends- the new tools available that change the game are:

* Medium

<https://medium.com/@leefelsenstein/my-advice-to-greta-and-her-friends-d35db6a350be>



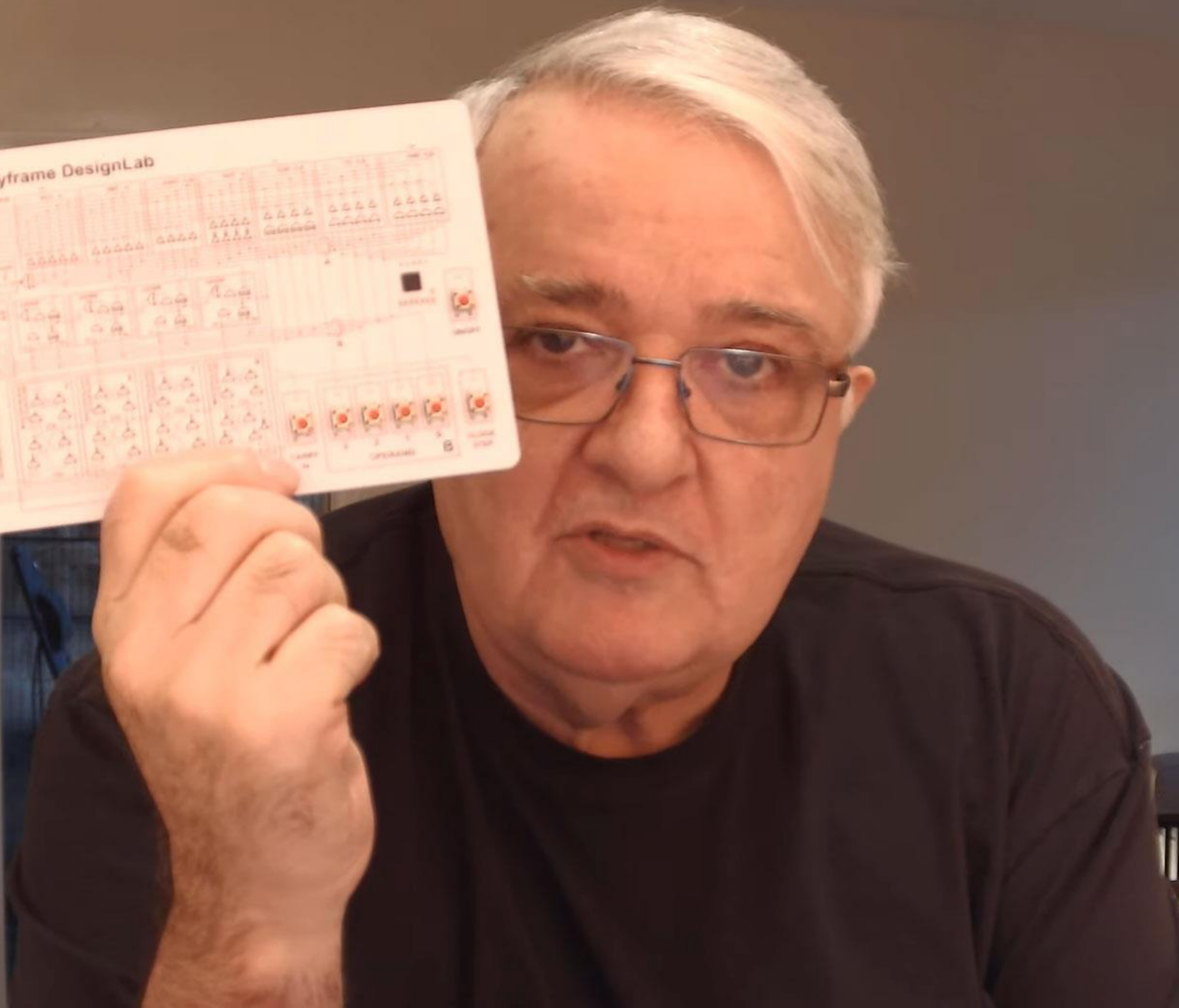
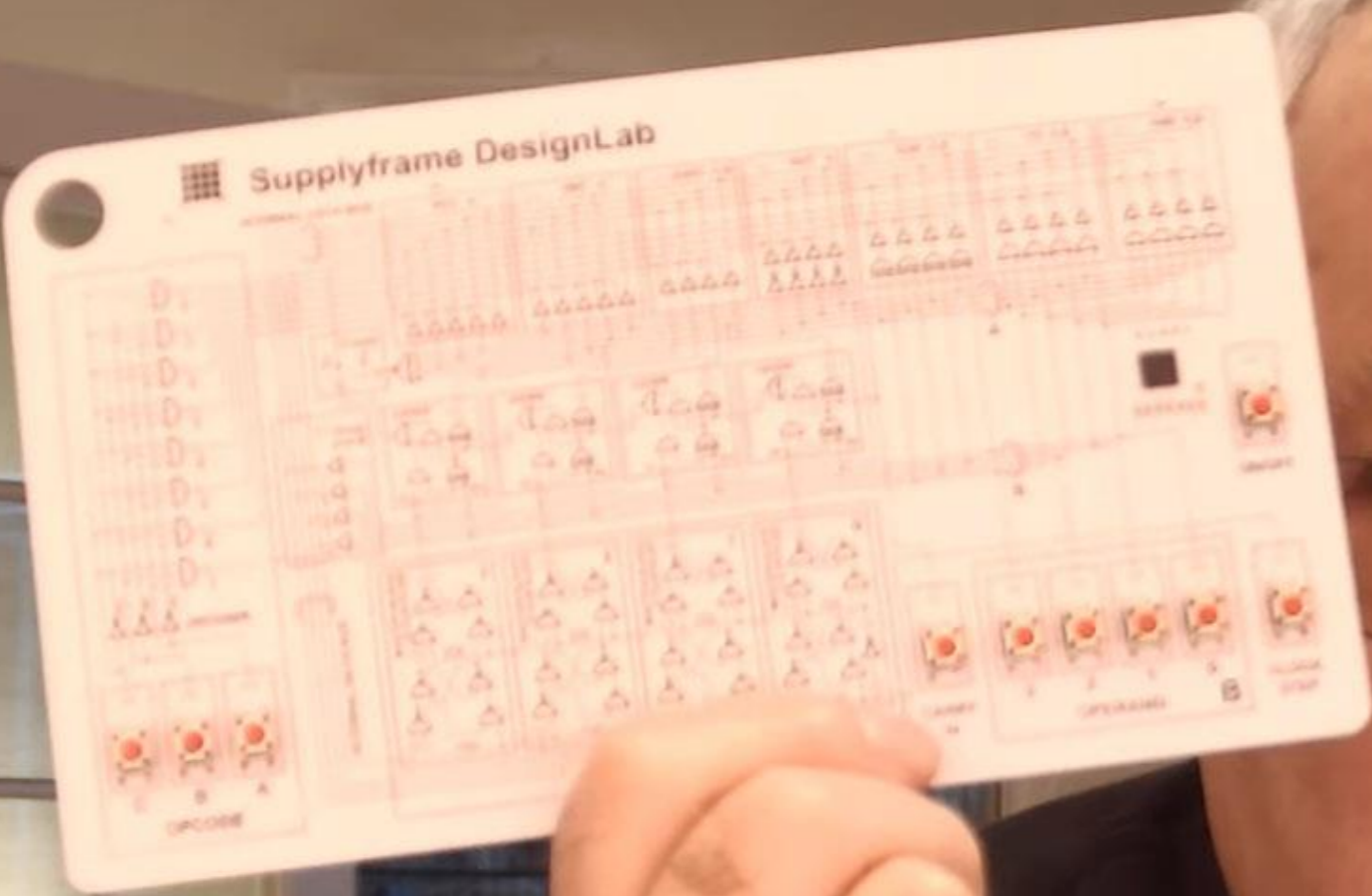
What to do?

Open source, both software and hardware

Crowd-funding through the Internet

Dis-intermediation – the removal of the need for middlemen in purchasing parts and services essential to development and production.

Supplyframe DesignLab



Our response

Descon “Klimerko”- open hardware, open software
air quality device for citizen’s science network

Github code: DesconBelgrade

<https://github.com/DesconBelgrade/Klimerko>

Citizen’s Initiative: VazduhGradjanima.rs

Klimerko.org

Thanks to Desc0n, Haklab Belgrade, Internet
Society Serbia Belgrade Chapter



DesconBelgrade

Collaborative multidisciplinary event aimed at local and regional participants in the Western Balkans and South-East Europe.

Belgrade, Serbia
descon.me

Block or report user

Overview Repositories 2 Projects 1 Stars 0 Followers 4 Following 0

Popular repositories

Klimerko

DIY Air Quality Measuring Device - Descon 5.0 - 2019

C++ ★ 18 📄 1

VazduhGradjanima

Website for Descon Klimerko

HTML 📄 2

23 contributions in the last year



Contribution activity

2020

Branch: master | New pull request | Find file | Clone or download

File	Commit Message	Time Ago
epilier	Updated to use the AllThingsTalk SDK; Device now reports its firmware...	Latest commit ee4a419 7 days ago
Klimerko_Firmware	Updated to use the AllThingsTalk SDK; Device now reports its firmware...	7 days ago
extras	Updated readme	3 months ago
LICENSE	Initial commit	4 months ago
README.md	Updated to use the AllThingsTalk SDK; Device now reports its firmware...	7 days ago

README.md

"Klimerko" Air Quality Monitoring Station

"Klimerko" is the continuation of the [Winning Project from Descon 4.0 2018](#).

See live data from all "Klimerko" devices in your area by going to vazduhgradjanima.rs

This is a DIY air quality measuring device that costs about \$30 to build (even less without the 3D Case) and measures [Particulate Matter](#) in the air as well as Temperature, Humidity and Pressure.

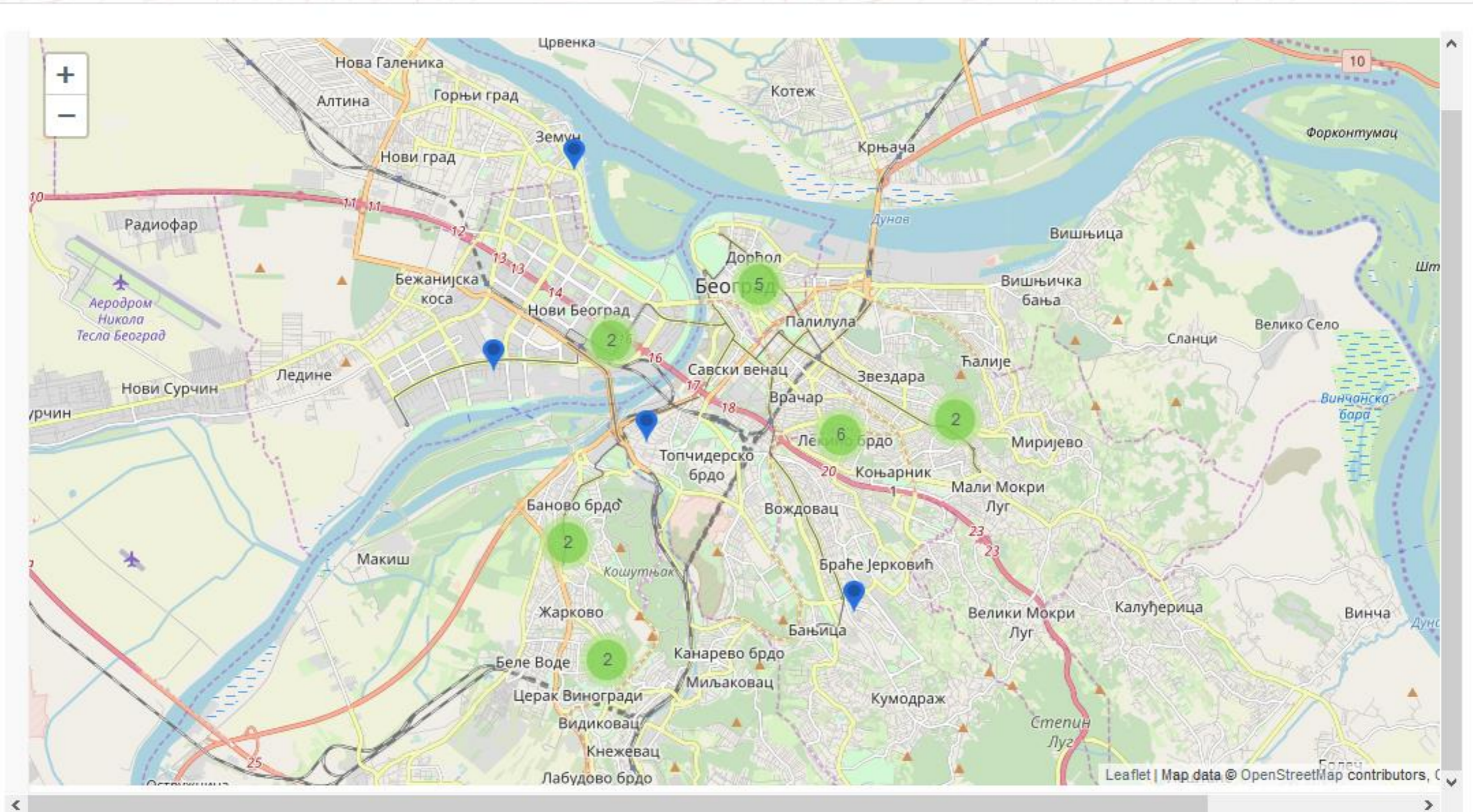
It publishes data to your [AllThingsTalk Maker Cloud](#) (free) where you're able to visualize data, see it historically and control the device.

Read on to find out how to build your own!



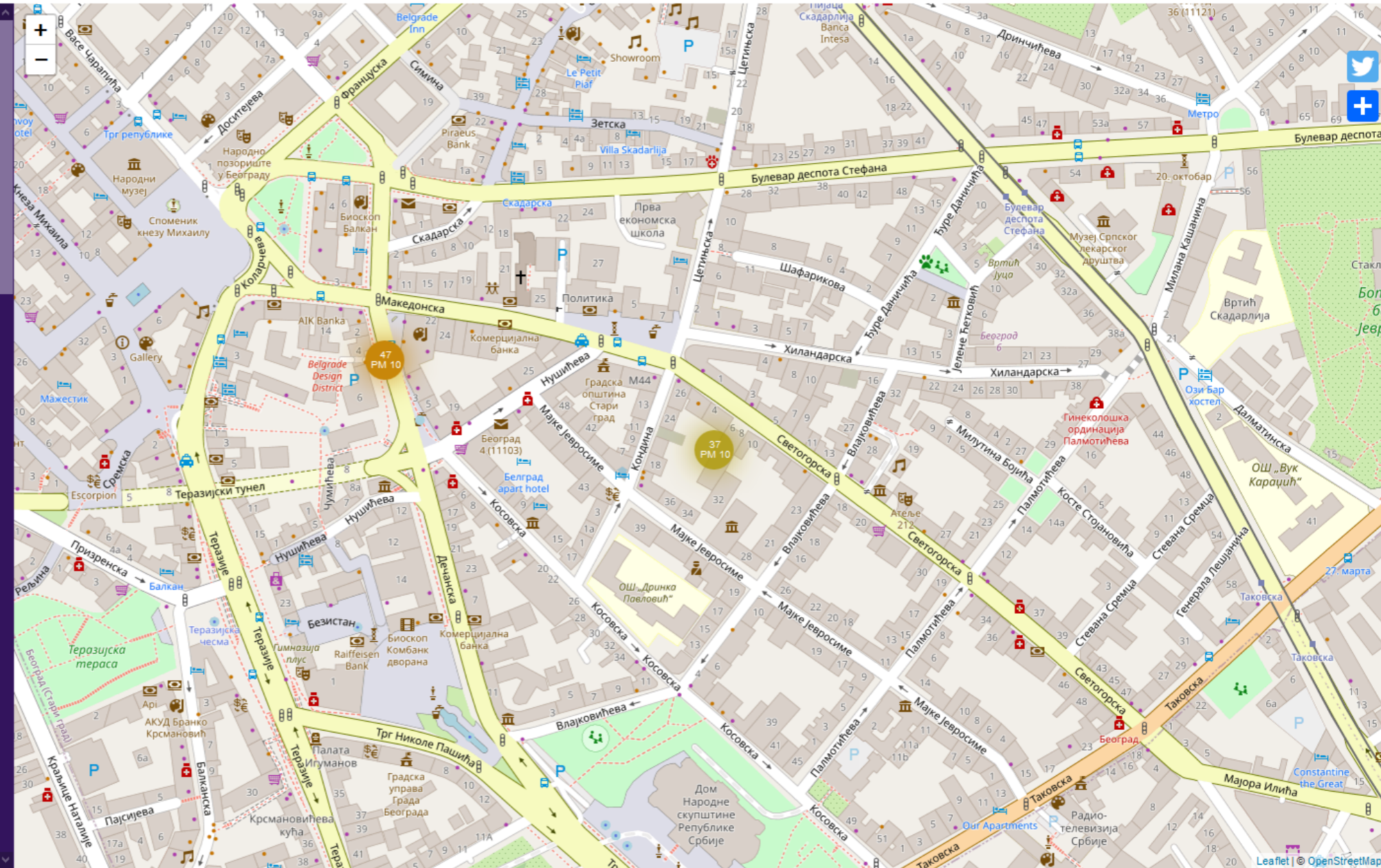
Firmware Version History

Vazduh Građanima



BEFORE AND AFTER

APP: Prosečna zagađenost	>
Kvalitet vazduha	PM 10
Dobar	26 µg/m³
Miljan Niš	Aleksinac >
Kvalitet vazduha	PM 10
Dobar	40 µg/m³
Klimerko Dečanska	Beograd >
Kvalitet vazduha	PM 10
Prihvatljiv	47 µg/m³
Klimerko Juzni Bulevar	Beograd >
Kvalitet vazduha	PM 10
Dobar	31 µg/m³
Klimerko Zvezdarska Šuma	Beograd >
Kvalitet vazduha	PM 10
Dobar	34 µg/m³
Zagađenko	Beograd >
Kvalitet vazduha	PM 10
Odličan	9 µg/m³
Descon Klimerko Zoo vrt	Beograd >
Kvalitet vazduha	PM 10
Odličan	17 µg/m³
Descon Klimerko Rex	Beograd >
Kvalitet vazduha	PM 10
Dobar	26 µg/m³
Medaković III	Beograd >
Kvalitet vazduha	PM 10
Dobar	34 µg/m³
Klimerko Svetogorska	Beograd >
Kvalitet vazduha	PM 10
Dobar	37 µg/m³
Descon Klimerko	Bežanija >
Kvalitet vazduha	PM 10
Dobar	32 µg/m³

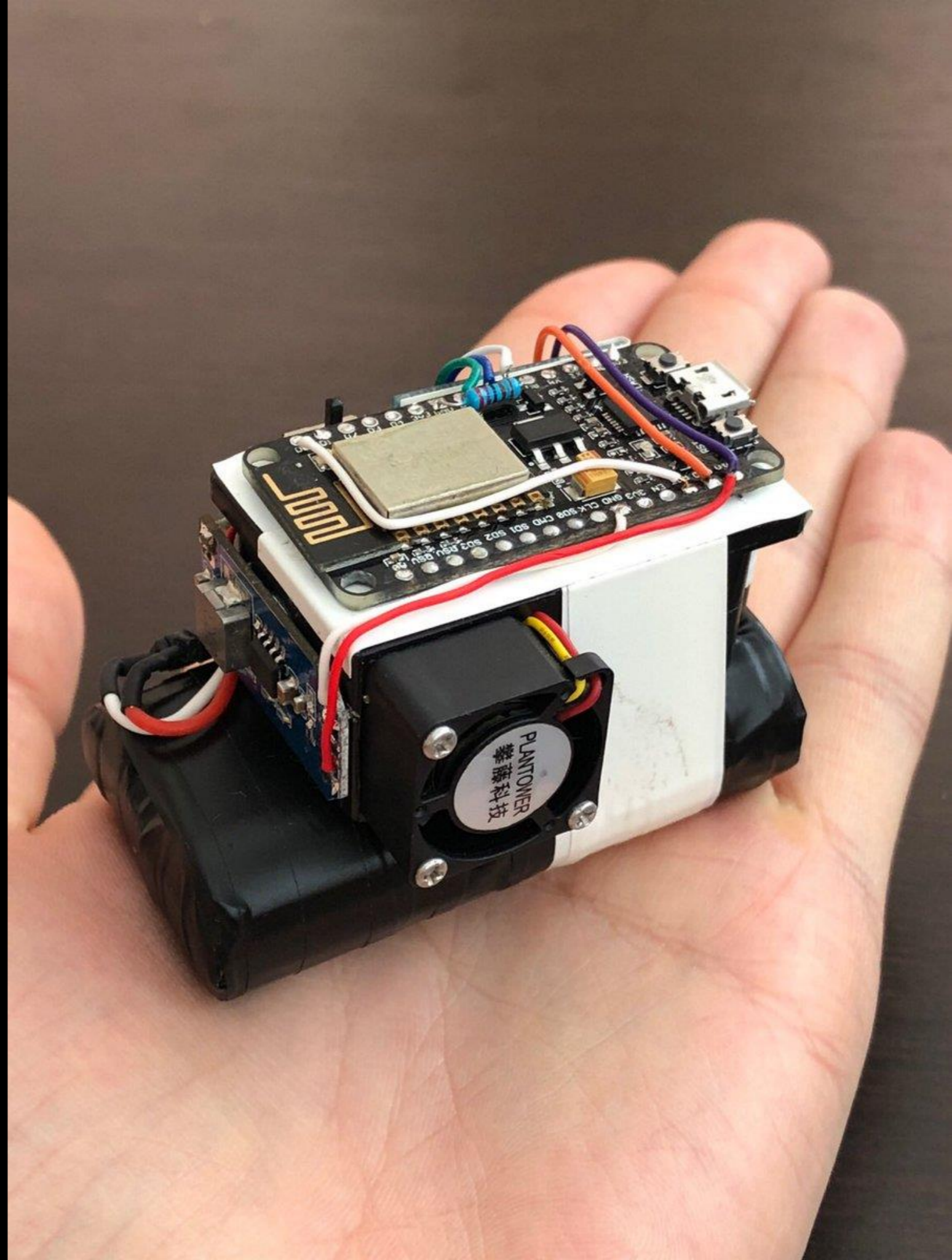


Our response

Klimerko's next steps:

Air to the People 2.0.

- Research
- Movie
- Development of 40 new devices
- Deployment in most polluted locations in Serbia by the end of 2021



How to assemble Klimerko, step by step

“Kako sastaviti Klimerka?”

<https://www.youtube.com/watch?v=D9VHvuHtT14>

www.descon.me/2020

www.klimerko.org

Where we're going, we don't
need roads!

THANK YOU!

Follow us!

FB: @descon.me | YT: @Descon Conference | TW: @DeSc0n

#desc0n #klimerko