



Collective awareness platform for outdoor air pollution - the hackAIR approach



Grossberndt, S.¹; Liu, H-Y¹; hackAIR consortium²
¹ NILU – Norwegian Institute for Air Research, Norway; ² www.hackair.eu

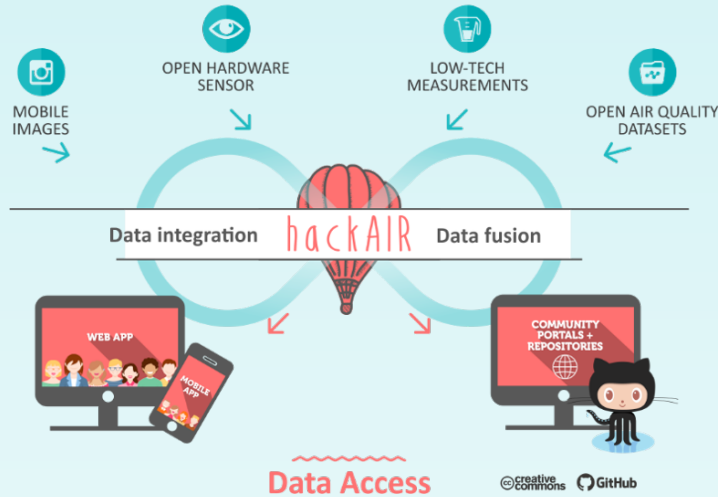
Concept

hackAIR is an open technology platform to access, collect and improve information on air quality (AQ) in Europe. It combines official AQ data with community-driven data sources.

Data Sources

Data sources

- Easy-to-build open hardware sensor modules
- AQ information derived from mobile phone pictures of the sky and webcams
- Low-tech measurement set-up involving paper filters and aquarium air pumps
- Publicly available AQ data



Data access

- Web application for local air quality information
- Mobile app to access air quality information or contribute own measurements

Participatory sensing and citizen engagement

- Citizen involvement through own measurements and publishing of outdoor air quality levels
- Co-design approaches for designing the hackAIR platform



What's in it for ... ?

Citizen communities:

- Provision of own measurements
- Obtaining AQ information
- Capacity building
- Behavioural changes
- Increased awareness

Science & policy:

- Insight on AQ patterns
- Information for informed decision-making

Impacts

Improving AQ data in Europe through integrating existing and new obtained data.

Engaging citizens directly in measuring outdoor AQ levels in Germany and Norway.

Raising awareness about AQ and encouraging behavioural changes amongst citizens.

hackAIR partners:



This project has received funding from the European Union Horizon 2020 research and innovation programme under grant agreement No 688363.



Project information

Duration: January 2016-December 2018
Coordinator: Dr Machi Simeonidou, DRAXIS, Greece
Website: www.hackair.eu
Contact: info@hackair.eu