Open technology to map the air we breathe: the hackAIR approach



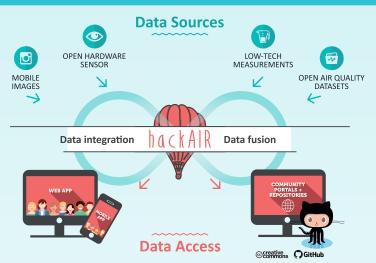
Concept

hackAIR is an open technology platform to access, collect and improve information on air quality in Europe.

It combines official air quality data with community-driven data sources.

Data sources

- Easy-to-build open hardware sensor modules
- Air quality 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 air quality data



Data access

- Customisable web application for local air quality information
- Mobile app that citizens can use to access air quality information or contribute measurements

APIs will be available for fetching information from the database.

Participatory sensing and citizen engagement

- Involve citizens directly in measuring and publishing outdoor air pollution levels
- Encourage behavioural change towards cleaner air
- Co-creation approach for designing the hackAIR platform

What's in it for ...?

Citizen communities

- Map your neighbourhood's air
- See how air quality changes over time –and compare with other cities
- Reduce your exposure to air pollution

Science & policy

- Insights on air quality patterns
- Information for informed decision-making

Impacts

Improving air quality data in Europe through integrating existing and newly obtained data

Engaging citizens directly in measuring outdoor air quality levels in Germany and Norway

Raising awareness about air quality and encouraging behavioural changes amongst citizens

hackAIR partners













