

{ “Collective awareness platform
for outdoor air pollution” }



hackAIR develops an open platform that enables communities of citizens to easily set up air quality monitoring networks and engage their members in measuring and publishing outdoor air pollution levels. It leverages the power of online social networks, mobile and open hardware technologies, and engagement strategies.



Objectives

1. To develop collective sensing approaches for measuring air quality
2. To develop a methodology for synthesising heterogeneous air quality data
3. To develop the hackAIR open platform for collecting, analysing and sharing air quality measurements to community members through web and/or mobile phones
4. To develop and deploy strategies for increasing engagement in monitoring air pollution and encouraging behavioural change
5. To pilot test the hackAIR open platform in an operational environment, with the participation of user communities



The hackAIR concept

Contributions from publicly available sources

OPEN DATA



SOCIAL MEDIA MINING

EXTERNAL MEASUREMENTS INGESTION

Contributions from hackAIR community



MOBILE APP* MEASUREMENTS

hackAIR OPENKIT** MEASUREMENTS

* Easy-to-contribute. Intended for wide usage.
** Intended for use by communities of enthusiasts/hacktivists.



hackAIR

O P E N P L A T F O R M



Citizens' awareness through engaging and easy-to-grasp UIs



Enthusiasts/hobbyists/hacktivists interested in contributing



Consortium

Partner	Country
DRAXIS Environmental S.A.	Greece
Norsk Institutt for Luftforskning (NILU)	Norway
Centre for Research and Technology-Hellas	Greece
BUND (Friends of the Earth Germany)	Germany
Studies on Media, Information and Telecommunication at the Vrije Universiteit Brussel	Belgium
HERDING WIEBKE	The Netherlands