



pollution smart detector

Pro Integra[®]

What is it?

- Advanced Artificial Intelligence Application
- Creating **live map of "smog sources"** - application community users can create and constantly update the map with precise identification of air pollution sources along with threat assessment
- Modes of operation:
 - **Manual** - single shot
 - **Automatic mobile** - live stream
 - **Automatic positioned camera** - live stream
- In automatic modes live video stream analysis is performed of surrounding area allowing to pin point each individual pollution source and pollution release (date, location, and threat level), eventually creating detailed micro and macro level live map of the "smog sources"
- Each user equipped only with smartphone can become potential environmentalist and serve as precise "detector" in certain area, city or country



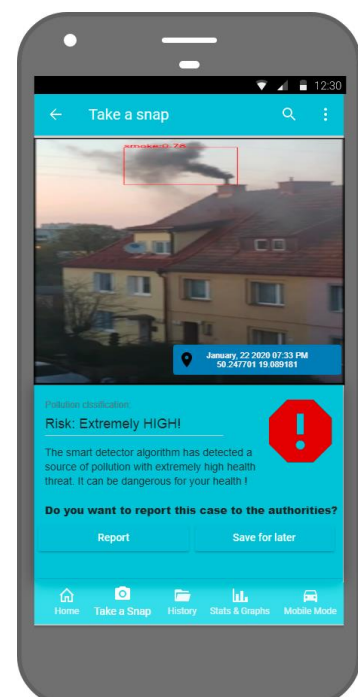
Why is it unique?

- First smart detector **based on common technical resources – smartphones or any cameras**
- Fully automated due to extensive use of Artificial Intelligence architecture
- Self-learning to become more and more precise in time
- Able to analyse large area with just single smartphone



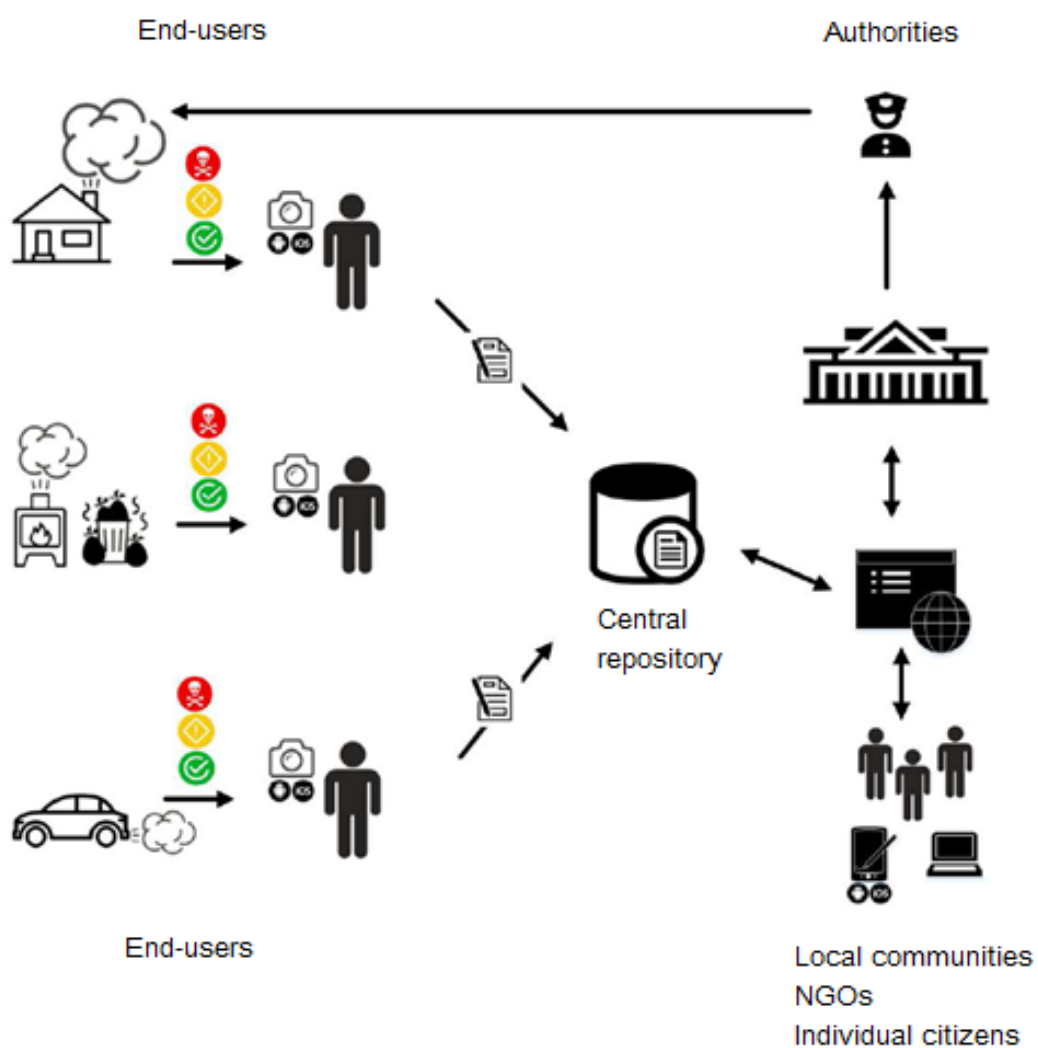
Benefits

- No actions required from end users except **allowing their smartphones to observe surroundings**
- No need to use **any expensive sensors**
- **Precise** pollution source identification and **threat classification**
- **Real time performance** – analysis is performed on-the-fly and results are available instantly
- Huge potential of high quality data acquisition:
 - Create catalogue of all relevant sources of pollution in given area
 - Easily isolate worst cases to address them individually
 - Monitor changes in time
 - Compare different locations and areas
 - Integrate with sensor based air quality monitoring systems to correlate overall air quality with specific sources of pollution
- Potentially **unlimited scale** of use (end users, area coverage, etc.) at very low cost
- Aggregated results of analysis (precise conclusions for given location or area) intended to be available for authorities, local communities, NGOs, businesses or individual citizens
- Huge social potential and educational value
- Intended to be **FREE** for all end users
- Applicable anywhere in the world





Functional Diagram





Our proposition

We are looking for partners:

- **Government**
- **Business**
- **NGOs**

or any other interested in supporting and utilizing new technologies and innovations in the field of preserving our environment

Sample results of real world tests from Upper Silesia streets – Jan 2020

