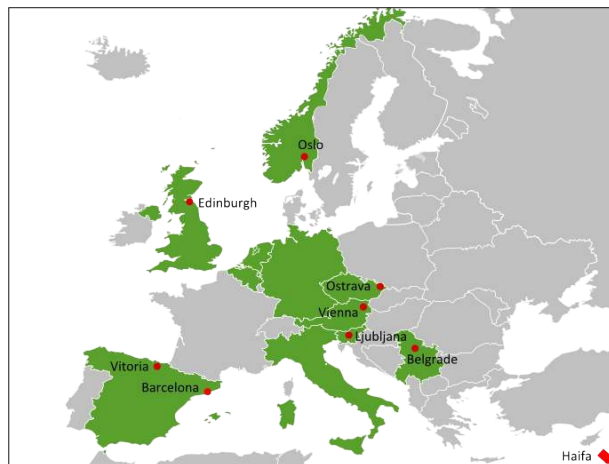


## Project Partners

1. NILU-Norwegian Institute for Air Research, NO
2. Peter van den Hazel, NL
3. Norwegian Asthma and Allergy Association, NO
4. Technion – Israel Institute of Technology, IL
5. Czech Technical University, CZ
6. Queensland University of Technology, AU
7. AirBase Systems Ltd, IL/DE
8. ATEKNEA - Ateknea Solutions Catalonia S.A., ES
9. GAC Ltd, CZ
10. IOM-Institute of Occupational Medicine, UK
11. Iritziak Batuz, ES
12. Sensing & Control Systems SL, ES
13. Alphasense Limited, UK
14. UBIMET GmbH, AT
15. U-Hopper, IT
16. CREAL – Centre for Research in Environmental Epidemiology, ES
17. Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, CZ
18. Vinca Institute of Nuclear Sciences, RS
19. Jozef Stefan Institute, SI
20. Stiftelsen SINTEF, NO
21. Tecnalia – Fundacion Tecnalia Research & Innovation, ES
22. Korea Institute of Construction Technology, KR
23. University of Cambridge, UK
24. DunavNet doo Novi Sad, RS
25. Snowflake Software, UK
26. Geotech, UK
27. Obeo, NO
28. EV INBO, BE
29. Saltlux, KR
30. uAbureau, AU/ES



*Geographic distribution of CITI-SENSE partner organizations (green) and the locations of the 9 case studies (red).*

*Additional partners are from Israel, South Korea and Australia.*

### Project Officers:

Gilles Ollier  
Jose Miguel Rubio Iglesias

### Project Contact:

*Project Co-ordinator:*  
Alena Bartonova, NILU  
(alena.bartonova@nilu.no)  
*Project Manager:*  
Sonja Grossberndt, NILU  
(sonja.grossberndt@nilu.no)  
*Dissemination Officer:*  
Elena Turco, S&C  
(elena.turco@sensingcontrol.com)

[www.citi-sense.eu](http://www.citi-sense.eu)  
[www.citizen-obs.eu](http://www.citizen-obs.eu)  
<http://co.citi-sense.eu>

## CITI-SENSE

**Development of sensor-based  
Citizens' Observatory Community for  
improving quality of life  
in cities**



Developing Citizens' Observatories with a variety of micro sensors

Integrating data analysis across data types and cities

Empowering citizens to influence community policy & decision making

Contributing to GEOSS

[www.citi-sense.eu](http://www.citi-sense.eu)

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## CITI-SENSE: Development of sensor based Citizens' Observatory Community for improving quality of life in cities

Air quality, environmental quality of public spaces in cities and indoor air quality in schools are areas that benefit from direct engagement of citizens. CITI-SENSE is developing "Citizens' Observatories" in these areas to empower citizens to contribute to and participate in environmental governance, to support and influence community and societal priorities and associated decision making. In the Citizens' Observatories citizens will access real-time data about the environment locally and globally, report their own observations and influence policy and decision making.

We expect these observatories to lead to the following outcomes:

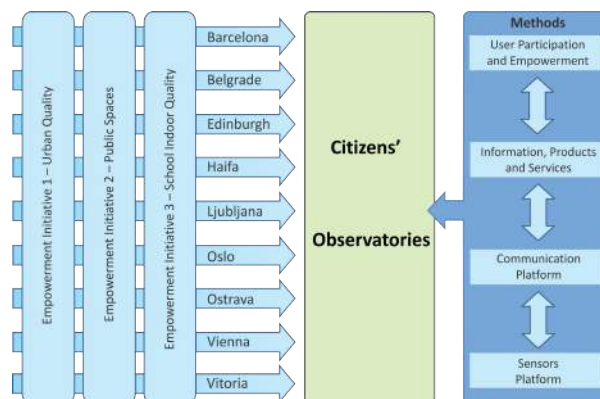
- Raise environmental awareness and support participatory sensing
- Provide tailored data and environmental information tools
- Raise user participation in societal environmental decisions
- Improve urban eco-planning and environmental management with input from the public
- Improve spatial coverage and increase usage of environmental data for the benefit of society
- Develop new methods for spatial interpolation and visualization of environmental data
- Provide GEOSS compatible data

### What is new about CITI-SENSE?

- High technology environmental sensors, innovative data fusion methods and communication paired with scientific analysis and efficient communications with users and the public
- Deployment of static (fixed) and mobile (personal) sensors to monitor various environmental components
- Combination of new sensing technology, ICT platforms and participatory methods into useful products

### Concept

The concept of CITI-SENSE rests on realising the chain "sensors-platform-products-users": technologies for distributed monitoring (**sensors**); information and communication technologies (**platform**); information products and services (**products**); and citizen involvement in both monitoring and societal decisions through participation and empowerment (**users**).



### CITI-SENSE Approach - More than 20 Citizens' Observatories (COs) across nine cities:

- 8 COs for outdoor air quality in cities
- Up to 10 COs for indoor air quality in schools
- 4 COs for personal comfort in public spaces
- 9 cities: Barcelona, Belgrade, Edinburgh, Haifa, Ljubljana, Oslo, Ostrava, Vienna and Vitoria



### CITI-SENSE and GEOSS

CITI-SENSE is operating within an open e-collaboration framework with the other projects funded under the same FP7-ENV-2012 call. Common methodologies and standards for data archiving, discovery and access within the GEOSS framework will be deployed so that they may be directly useful for the users of GEOSS. CITI-SENSE will make Citizens' Observatory data available through the GEOSS infrastructure, and plan to create a joint GEOSS portal for Citizens' Observatories together with the other four projects.