

CAPTOR

COLLECTIVE AWARENESS PLATFORM
FOR TROPOSPHERIC OZONE POLLUTION



Citizen Empowerment to fight Ozone Pollution

In CAPTOR citizens and scientist collaborate closely to **monitor and address ozone pollution** in Europe. We aim to establish a monitoring network made of **low-cost sensors** to measure ozone pollution in affected areas, and we'll use collaborative learning tools to **stimulate collaborative solution finding**. The low cost sensors will be hosted and maintained by the concerned citizens themselves and developed with a special attention on the **quality of data**, because this is a crucial point of the **citizen's empowerment** and mobilisation.



Air pollution is dangerous for humans and nature:

- It is responsible for 430.000 premature deaths in Europe each year [1].
- It puts considerable damage to agriculture and the natural environment.
- Health-related economic costs of air pollution are estimated at between 330 - 940 billion Euro for the EU annually [2].



Existing monitoring networks show low spatial density:

- Existing air quality monitoring stations are equipped with high-level reference instrumentation.
- This is expensive, thus spatial density is low.



Levels of Ozone are especially high:

- In many European regions ozone levels are above the EU target value (visit our website for more information!)
- In the rural environment close to urban areas ozone is especially high.



We need to collaborate to find solutions:

- If citizens, scientists, NGOs and local decision makers collaborate we can find new solutions to the air pollution problem.

[1] <http://www.eea.europa.eu/media/newsreleases/many-europeans-still-exposed-to-air-pollution-2015>

[2] <https://ecf.com/news-and-events/news/ecf-joins-alliance-better-eu-air-quality-laws>

Partners:

© **European Citizens** as sensor hosts, observers of ozone data, participants in collaborative solution finding ...





Join CAPTOR activities:

Collect ozone data: become a host of a CAPTOR sensor, which collects data on ozone pollution around your domicile. It's very easy, you don't need previous experience or training. Provide a place for the sensor and we will come to install and de-install it.



- Know if you breathe polluted air.
- Raise awareness for the effects of ozone pollution on health and nature.
- Collaborate with scientists and support collecting data, which are key to improve scientific and citizen knowledge about the problem

List of Requirements for sensor hosts:

- Live in one of the three testbeds
- Live in the rural area
- Have a place for a sensor
- Have Wi-Fi connection
- Have electric connection

Explore ozone data: be informed about current levels of ozone via the CAPTOR App

Have a say: participate in discussions about ozone pollution and how to solve the problem

Stay informed: register for the CAPTOR newsletter and stay informed via bi-monthly newsletters

Interested? Register at our website!

CAPTOR initial testbeds:

- **Spain:** Barcelonès, Maresme, Vallès and Baix Ripollès
- **Italy:** Piemonte, Lombardia, Veneto and Emilia Romagna region
- **Austria:** Niederösterreich, Burgenland, Steiermark

Off-springs in other regions are supported as well! If you are interested, please contact us.



Funded by the European Union's Horizon2020 Programme Grant Agreement No 688110