

CITIZEN SCIENCE



SDG

CONFERENCE

14.–15.10.2020

Knowledge for Change: A decade
of Citizen Science (2020–2030)
in support of the Sustainable
Development Goals



ODOUR OBSERVATORY

The International Odour Observatory: A co-designed resource by and for the quadruple helix stakeholders

Louise Francis, Hannah Stockwell and María Alonso-Roldán
(Mapping for Change)



D-NOSES

Distributed Network for Odour Sensing,
Empowerment and Sustainability



Funded by the Horizon 2020 programme
of the European Union
Grant Agreement No 789315

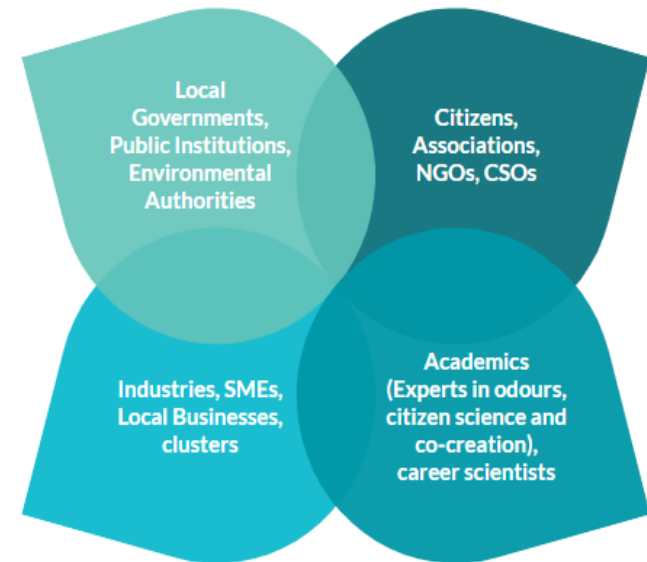


1. D-NOSES project, aims and objectives
2. The need for an International Odour Observatory
3. The co-design process
4. The tools



1. D-NOSES, aims and objectives

- Investigate how citizen science approaches can empower citizens to take a leading role in tackling odour pollution.
- Support the active involvement of key actors within the quadruple helix model to address odour pollution.
- Facilitate the implementation of Principle 10 of the Rio Declaration by providing access to information through the International Odour Observatory



Quadruple helix representation

2. The need for an International Odour Observatory

Odour Pollution:

- Negatively impacts people's quality of life
- Is one of the main causes of environmental complaints after noise
- Is difficult to measure and solutions are costly
- Inconsistently regulated across territories; lacks Europe-wide definitions, terms and common criteria to establish odour impact thresholds

Need to develop trust, build transparency, share best practice, and promote cooperation among stakeholders affected differently by odour issues.



D-NOSES



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3. The co-design process



I am a waste management professional and...

I want to improve the public perception of the waste and water management processes so that we can continue to improve and citizens are happier with our services.

- Does this situation sound familiar or likely for you personally? Y/N
- Where would you currently go to find this information? e.g. specific website, local library?
- Might you use the new Odour Observatory to help you with this? Y/N

Comments:

Please turn over to find out more about the Odour Observatory



I am a local resident and...

I would like to find out if there is a local campaign to join so that together I and my neighbours can oppose the plans for a new development in my area that may cause odour issues.

- Does this situation sound familiar or likely for you personally? Y/N
- Where would you currently go to find this information? e.g. specific website, local library?
- Might you use the new Odour Observatory to help you with this? Y/N

Comments:

Please turn over to find out more about the Odour Observatory

User Stories Feedback

We would like to collect user stories and feedback to co-create the Odour Observatory. By understanding your stories we can create the best tools and resources to help you in your specific situation. Please help us understand your specific context and requirements by filling in this feedback form.

* Required

What is the Odour Observatory?

The Odour Observatory is an online space to gather information, share knowledge and inspire action to address odour pollution. This resource is for everyone affected by or interested in odour issues.

Get informed - which regulations apply in your area; how odours can be measured; how to make an odour complaint etc. Also access a searchable database of academic research papers.

Get involved - solve or mitigate against the effects of odour pollution, with guidelines for industry, policy makers and communities affected by odour.

Get inspired - stories and case studies of how other communities, industries and policy makers have made a difference to odour issues.

Get mapping - Put odour issues on the map, view regulations and see what else is happening near you



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3. The co-design process



How much do we know about odours?



Get Informed

Find out more about odour, regulations and research



Get Involved

Use the power of citizen science to monitor odour nuisance



Get Inspired

Read stories and case studies of odour issues and solutions



Get Recording

Access free tools to record odour observations and stories



ODOUR
OBSERVATORY



October 12, 2020
Citizen Science for Public Authorities: Webinar Content Available



October 5, 2020
Latest News on the D-NOSES Pilots!



October 1, 2020
The shortcomings of odour nuisance regulations



September 16, 2020
D-NOSES on the agenda: ECSA Conference 2020



D-NOSES

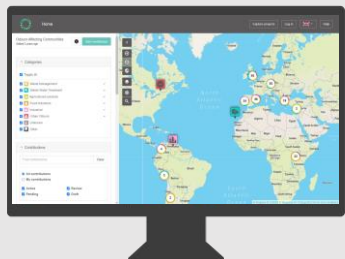


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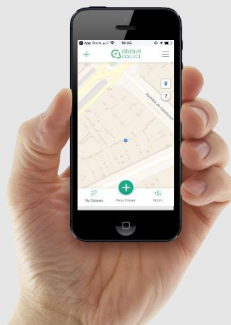
4. The tools



ODOUR OBSERVATORY



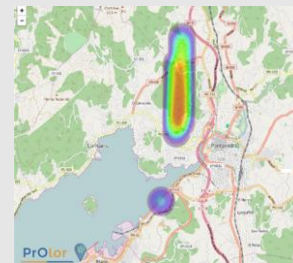
COMMUNITY
MAPS



ODOURCOLLECT



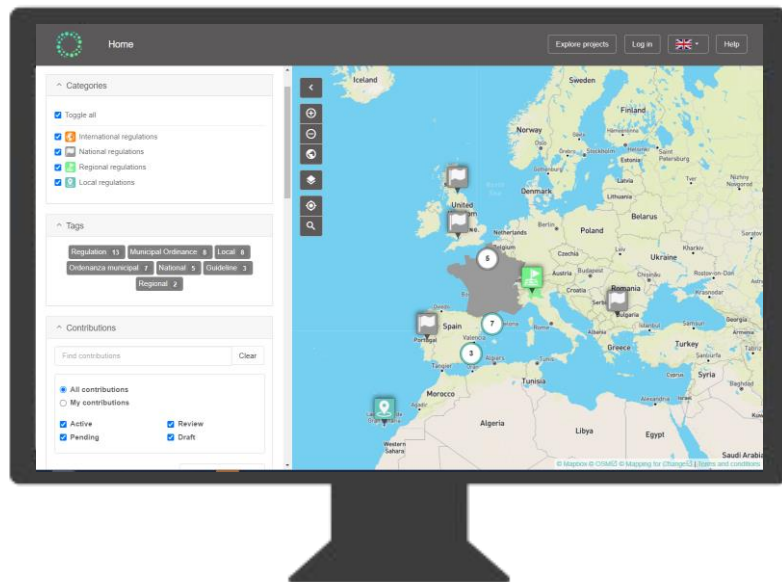
ODOURCOLLECT
DASHBOARD



PROLOR

4. The tools

COMMUNITY MAPS



Flexible map-based platform to facilitate alternative customisable map creation, by non-experts, based on needs and context:

- Visualise complex information in an accessible format (e.g. odour regulations)
- Support user-generated content to share qualitative/quantitative data (e.g. stories from affected communities)

dnoses.communitymaps.org.uk/project/odour-regulations

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4. The tools

ODOURCOLLECT



Web app to collect real-time odour observations:

- Identify odour patterns (spatial/temporal/intensity)
- Identify odour sources
- Cost-effective approach
- Provides transparency across stakeholders
- Enables targeted mitigation measures

<https://odourcollect.eu/>

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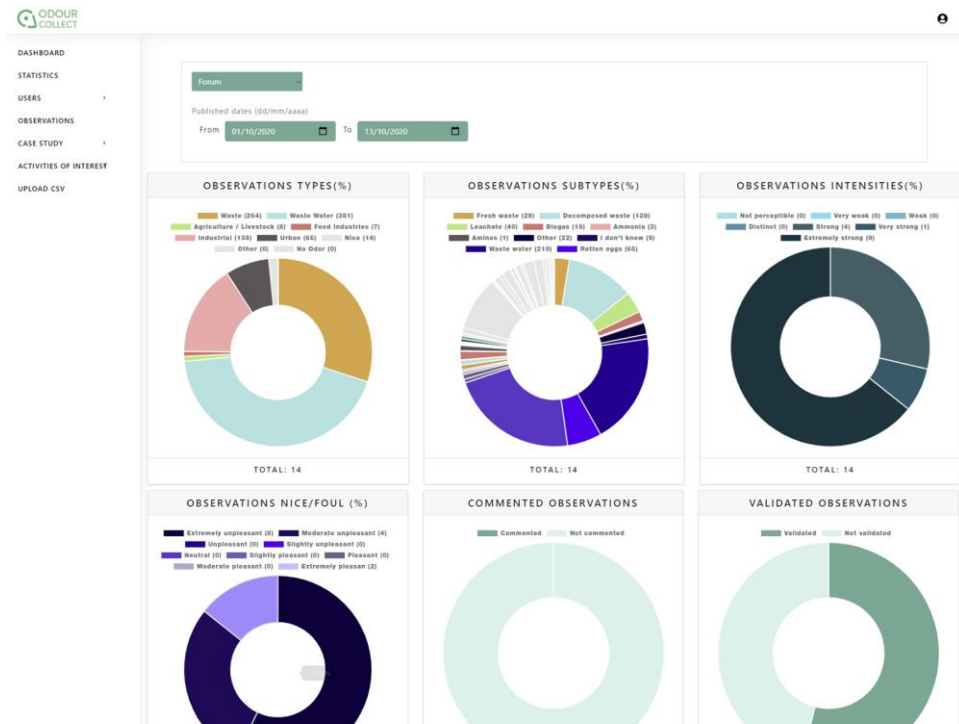
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4. The tools

ODOURCOLLECT DASHBOARD

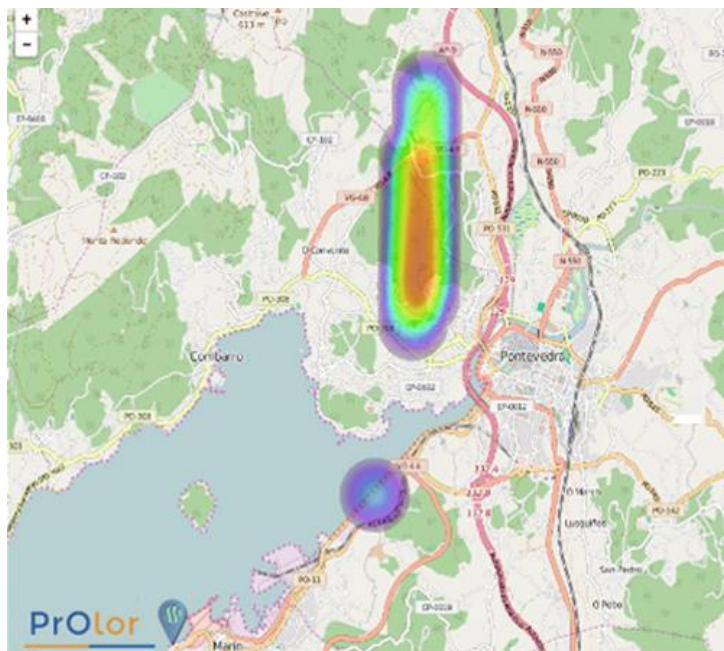


Administrative dashboard to view real-time statistics of OdourCollect data:

- Delimit area of investigation
- Data validation
- Spatial/temporal filtering
- User management

4. The tools

PROLOR



Odour Forecast:

- Calculate retrojectories
- Determine the possible origin of an odour release
- Provide analytical data to support the validation of observations
- Support the potential identification of impact area

The D-NOSES MOOCs on Odour Pollution



QUESTIONS ON ODOUR POLLUTION

- When was the last time you smelled something annoying in your neighborhood / place of work / stroll, etc.?
- Did you know that odour pollution is the second reason for environmental complaints in Europe, after noise?
- Did you know there is an app allowing you to monitor and report odours either good or bad?
- Are you aware of the odour regulations (if any) in your country and the actions that you can undertake as affected citizen?
- Do you feel a driver of change against odour pollution in your community?
- Are you a citizen or an educator looking for resources on odour pollution?
- Do you like open accessed, self-paced MOOCs (Massive Open Online Courses) as a way to build your knowledge and skills?

Then, these MOOCs aspire to be a helpful resource for you & to enable you to bring along a positive change on odour pollution!

More about odours:
<https://odourobservatory.org/>



Enroll in the MOOCs and start learning (expected in Nov. 2020):
<https://dnoses.envirolearning.net>

THE MOOCs:

- Explore the not so-well-known problem of odour pollution, its causes, impacts and what we can do about it!
 - Version 1 for Public (approx. 3 hours commitment)
 - Version 2 for Educators (approx. 6 hours commitment)
- Are aligned with the Sustainable Development Goals (SDGs).
- Are in line with Education for Sustainable Development (ESD): learner-centered, gender-neutral, inquiry driven, problem solving, linked to everyday life, and motivating for responsible action!
- Are open-accessed (free), self-paced, and grant learners a certificate.
- Are complementary to other citizen science outputs of D-NOSES.
- Will be accompanied with a pdf toolkit for the educators!

Citizen Science for sustainable education - E-Poster session