LANDSENSE

Coupling citizen science and earth observation data to promote environmental monitoring

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Center for Earth Observation & Citizen Science
International Institute for Applied Systems Analysis

@LandSense
Landsense.eu
Motivation

- Improving the quality of Earth Observation (EO)-based Land Use & Land Cover (LULC) maps/products

- Transforming the conventional top-down approach to EO-based monitoring

- Leveraging citizen science and crowdsourcing methods to engage people in environmental monitoring & stewardship

https://zenodo.org/communities/landsense/
LandSense Pilots

LandSense technologies are deployed across various themes to illustrate the potential of citizen observatories to tackle environmental challenges.
Amsterdam Rembrandt Park

Promoting sustainable urban development with citizen insights on the perceptions of green and open spaces

125+ participants

375+ observations

Feeling
- Tranquil
- Lively
- Relaxing
- Safe
- Crowded
- Noisy
Toulouse – LULC Dynamics

Integrating expert contributions using crowdsourcing approaches into LULC authoritative databases

130+ participants

7500+ observations

Dataset 1: Sentinel 2 change detection validation 2019
Dataset 2: Land use classification 2019
Dataset 3: In-situ validation 2018
Vojvodina
Leveraging the power of EO systems and crowdsourcing to deliver value added service to farmers

181 participants
2850+ observations

Phase 1: Two high schools & University of Novi Sad
Spain

Monitoring threats to biodiversity with a focus of Important Bird & Biodiversity Areas (IBAs) & Natura 2000 sites

Volunteers → IBA Caretakers → National Coordinators

40+ participants

450+ observations

https://natura-alert.net/
LANDSENSE MAPATHON

Connecting citizens and satellite data for land use mapping across the EU

Contribute now!
https://landsense.eu/Mapathon

@LandSense
#EURegionsWeek
#territorialdata
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