

18th EUROPEAN WEEK of
REGIONS and CITIES

05>09 OCTOBER 2020 12>16 OCTOBER 2020 19>22 OCTOBER 2020

LANDSENSE

A Citizen Observatory and Innovation Marketplace for Land Use and Land Cover Monitoring

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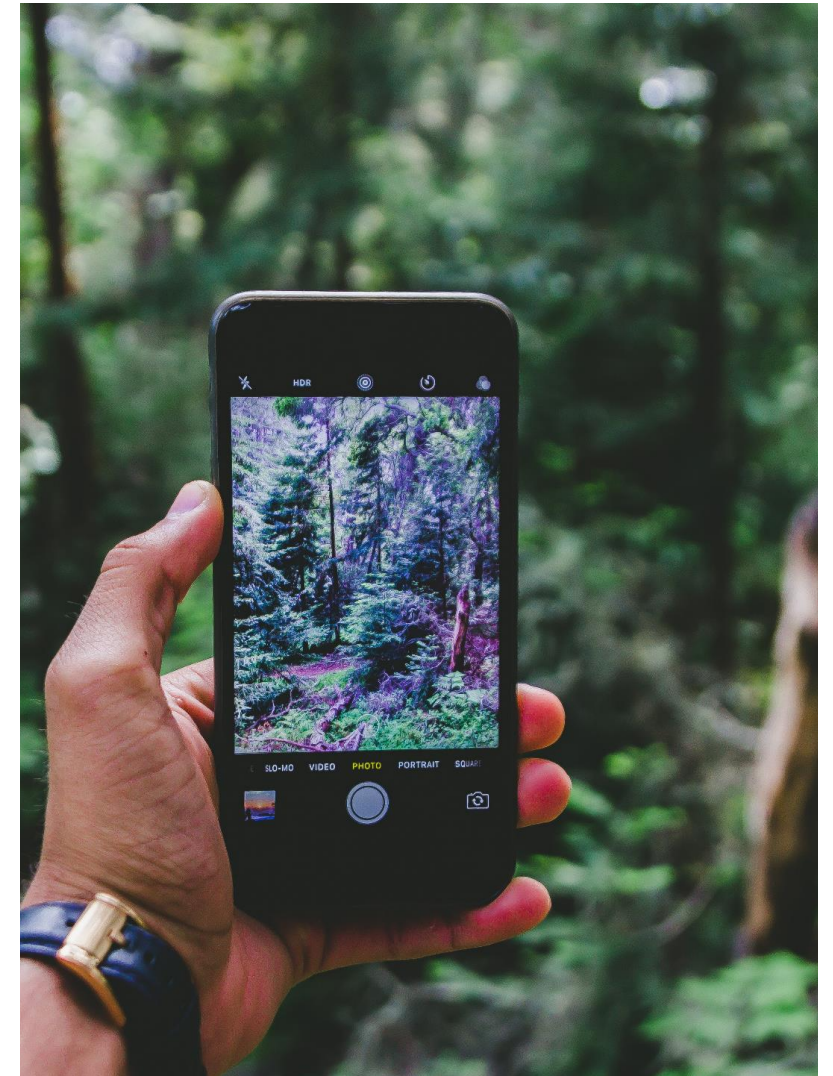
Center for Earth Observation & Citizen Science
International Institute for Applied Systems Analysis



European Committee
of the Regions



@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 we can more actively engage people in environmental monitoring & stewardship


LandSense


2016 – 2020

 18 partners

 9 countries

 20+
journal publications

 70+
dissemination events

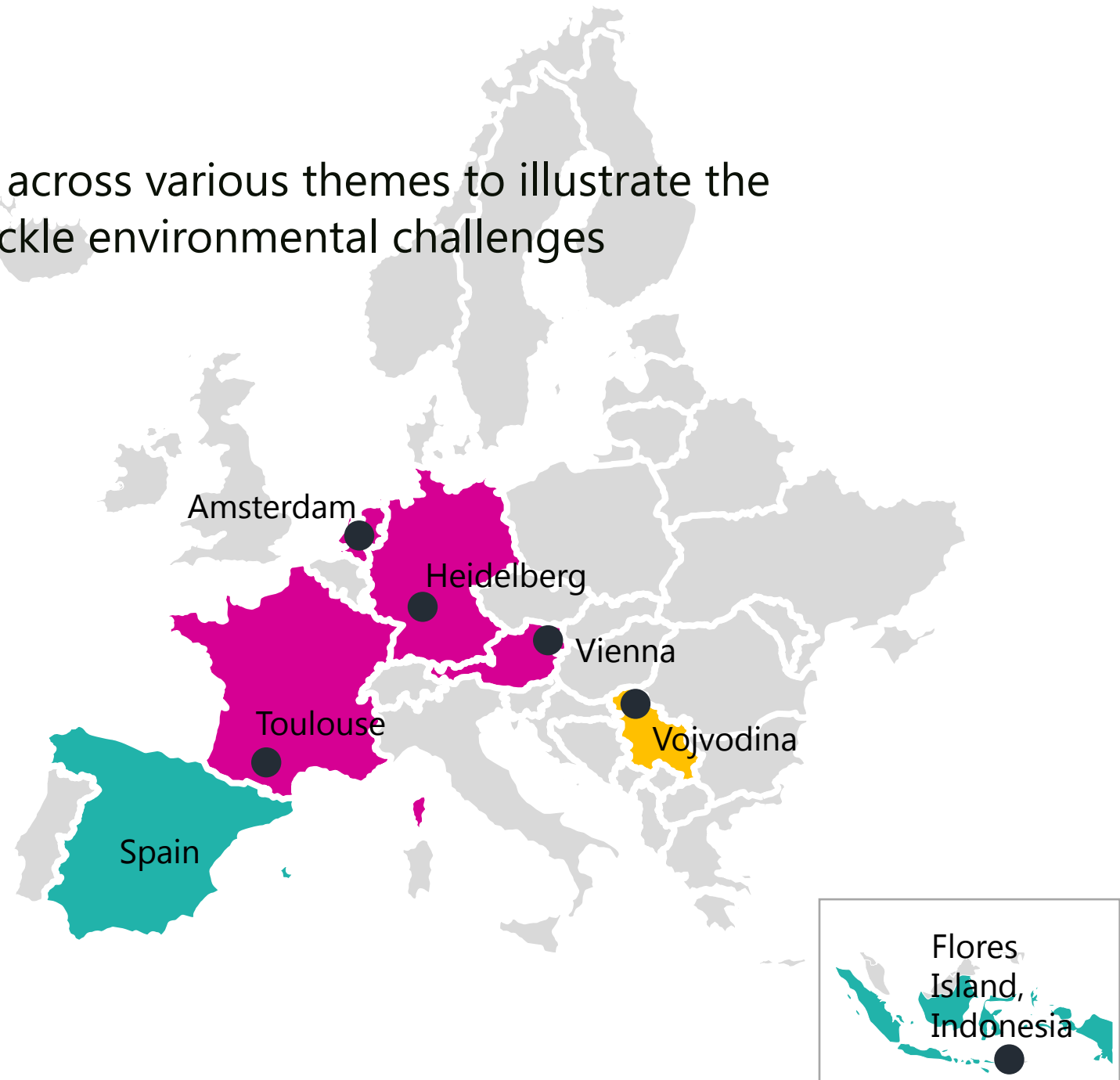
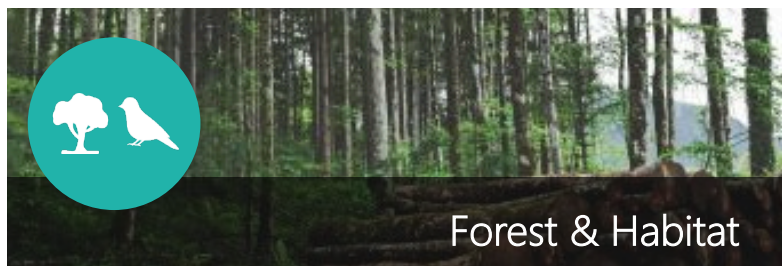
 5+
open access datasets



The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 689812

LandSense Pilots

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



Amsterdam Rembrandt Park

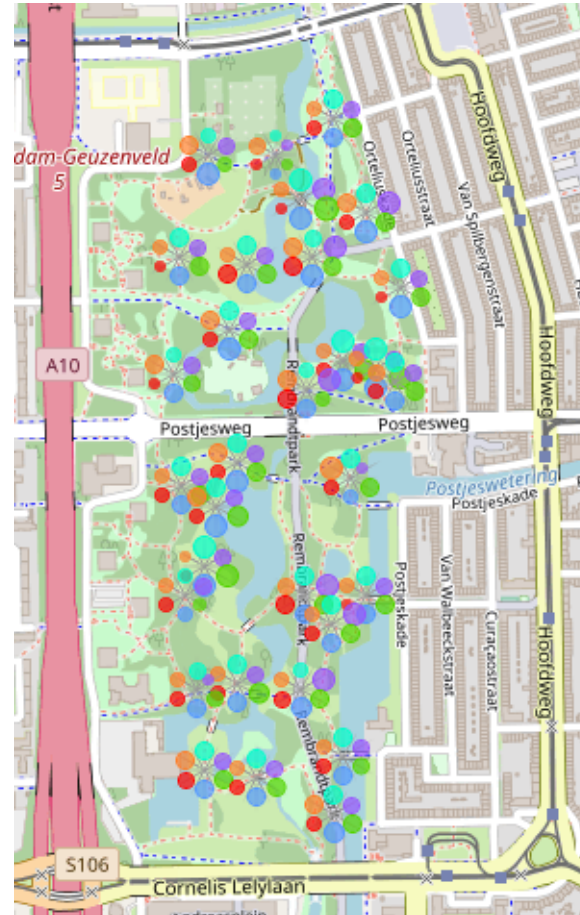
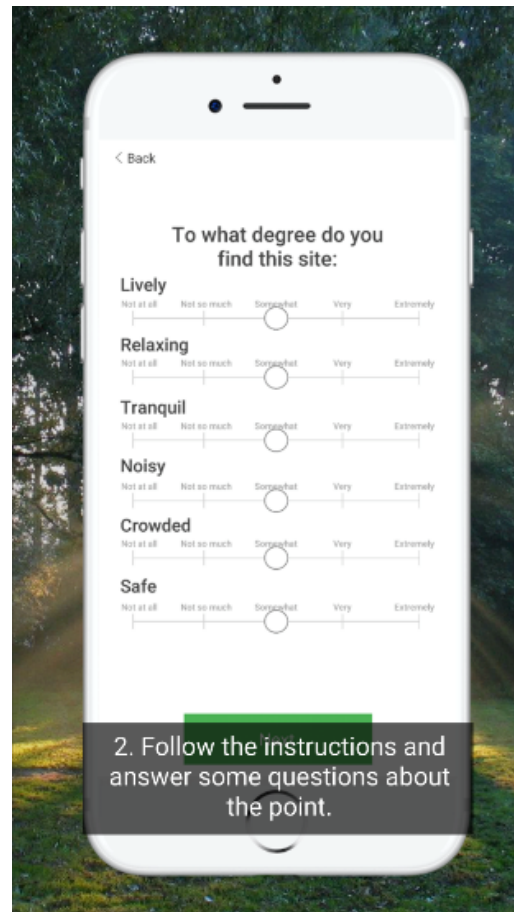
Promoting sustainable urban development with citizen insights on the perceptions of green and open spaces



125+ participants



375+ observations



Feeling

- Tranquil
- Lively
- Relaxing
- Safe
- Crowded
- Noisy



Toulouse – LULC Dynamics

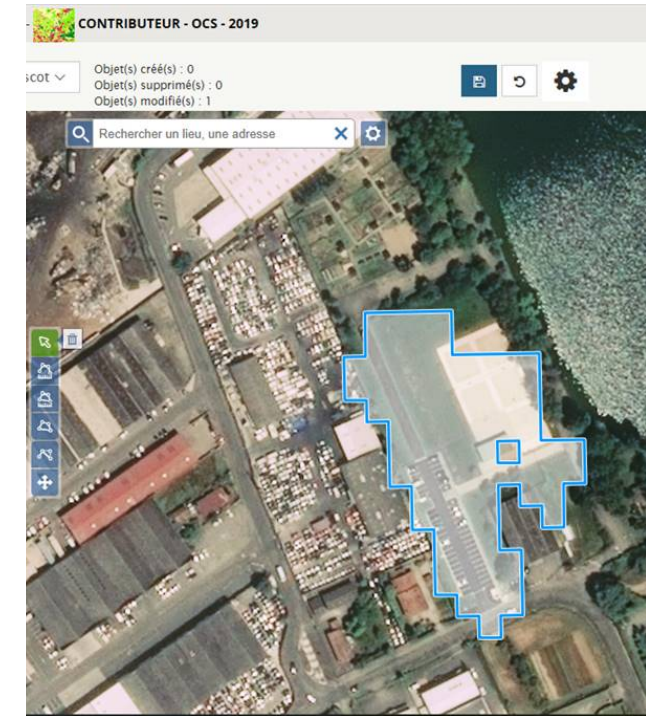
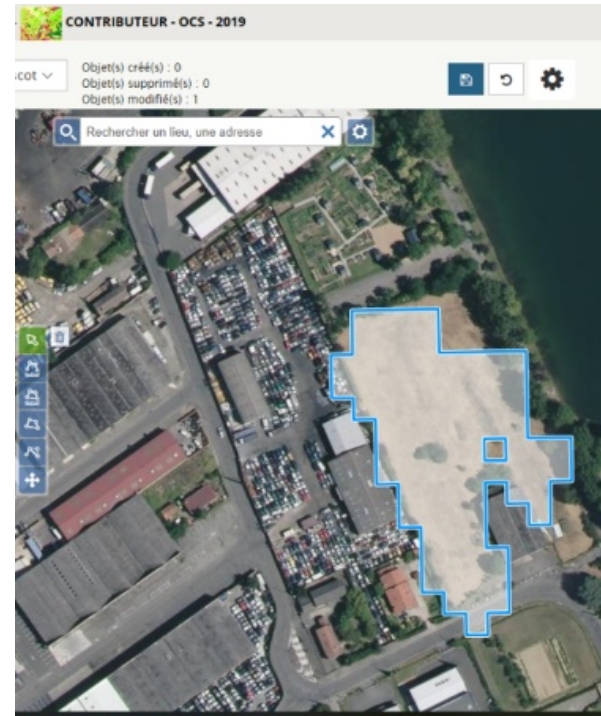
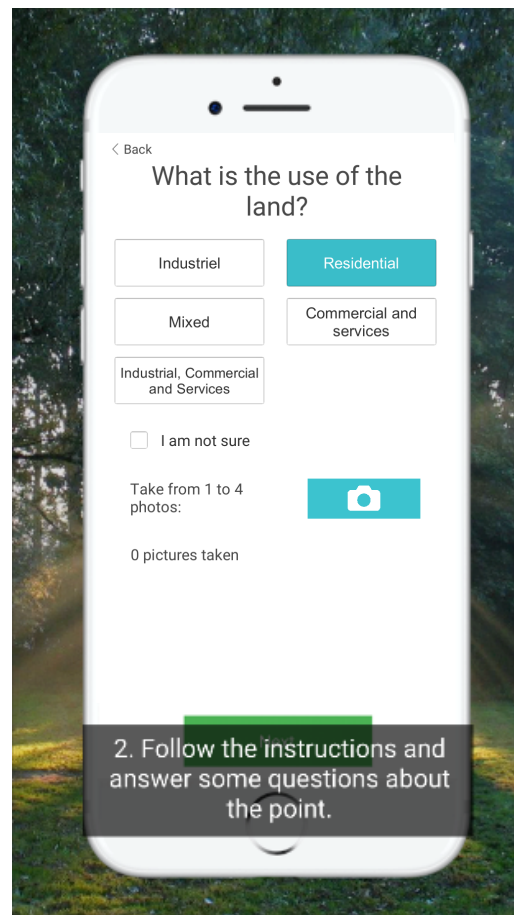
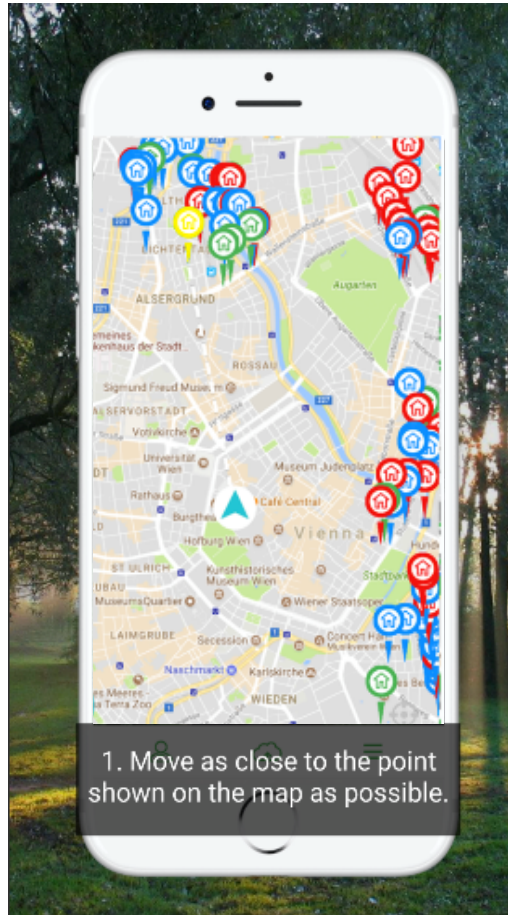
Integrating expert contributions using crowdsourcing approaches into LULC authoritative databases



130+ participants



7500+ observations



Dataset 1: Sentinel 2 change detection validation 2019
Dataset 2: Land use classification 2019
Dataset 3: In-situ validation 2018

Spain

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

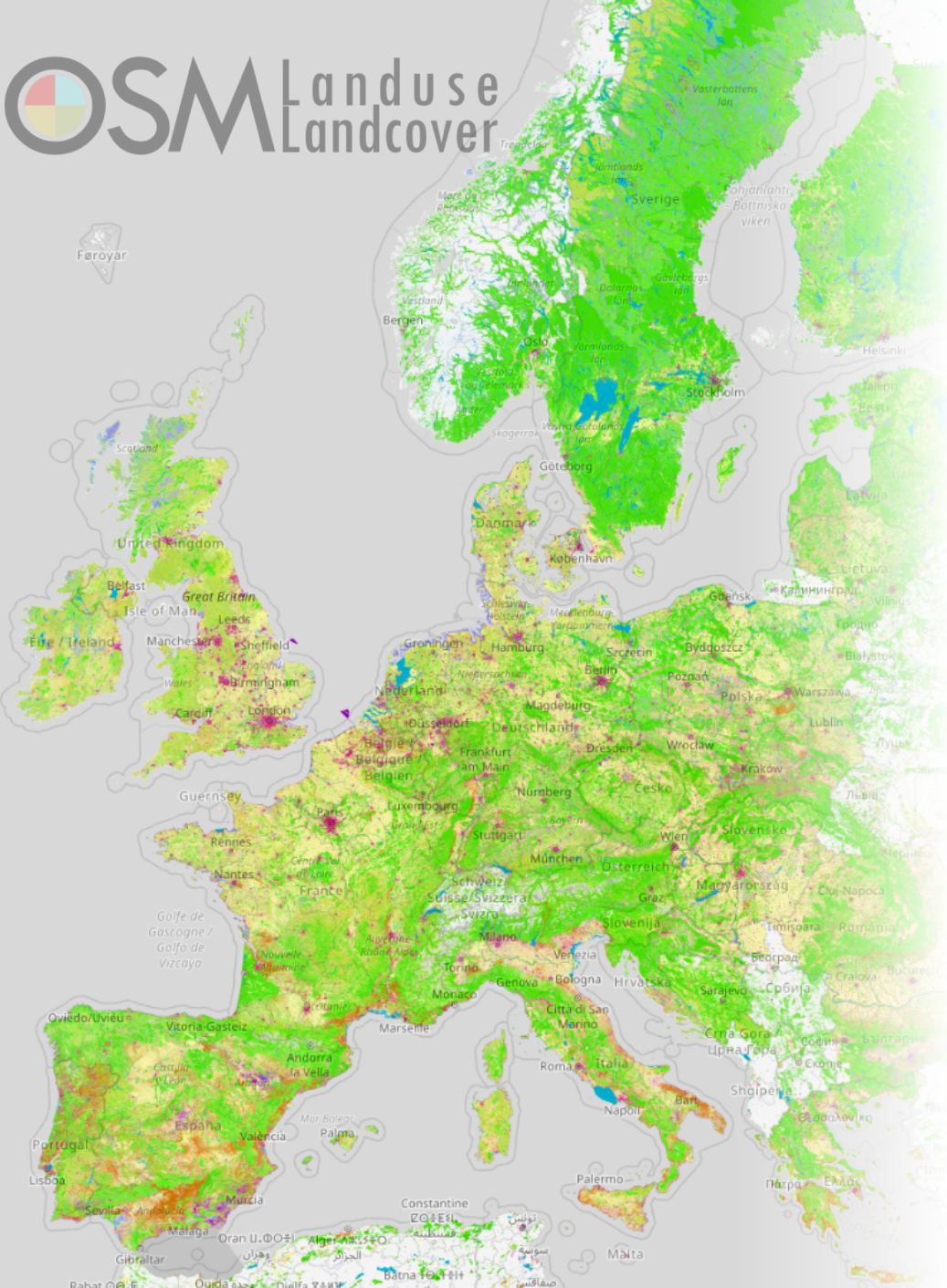


40+ participants



450+ observations





LANDSENSE MAPATHON

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



Starts Tomorrow!

<https://landsense.eu/Mapathon>

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#EURegionsWeek

#territorialdata



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