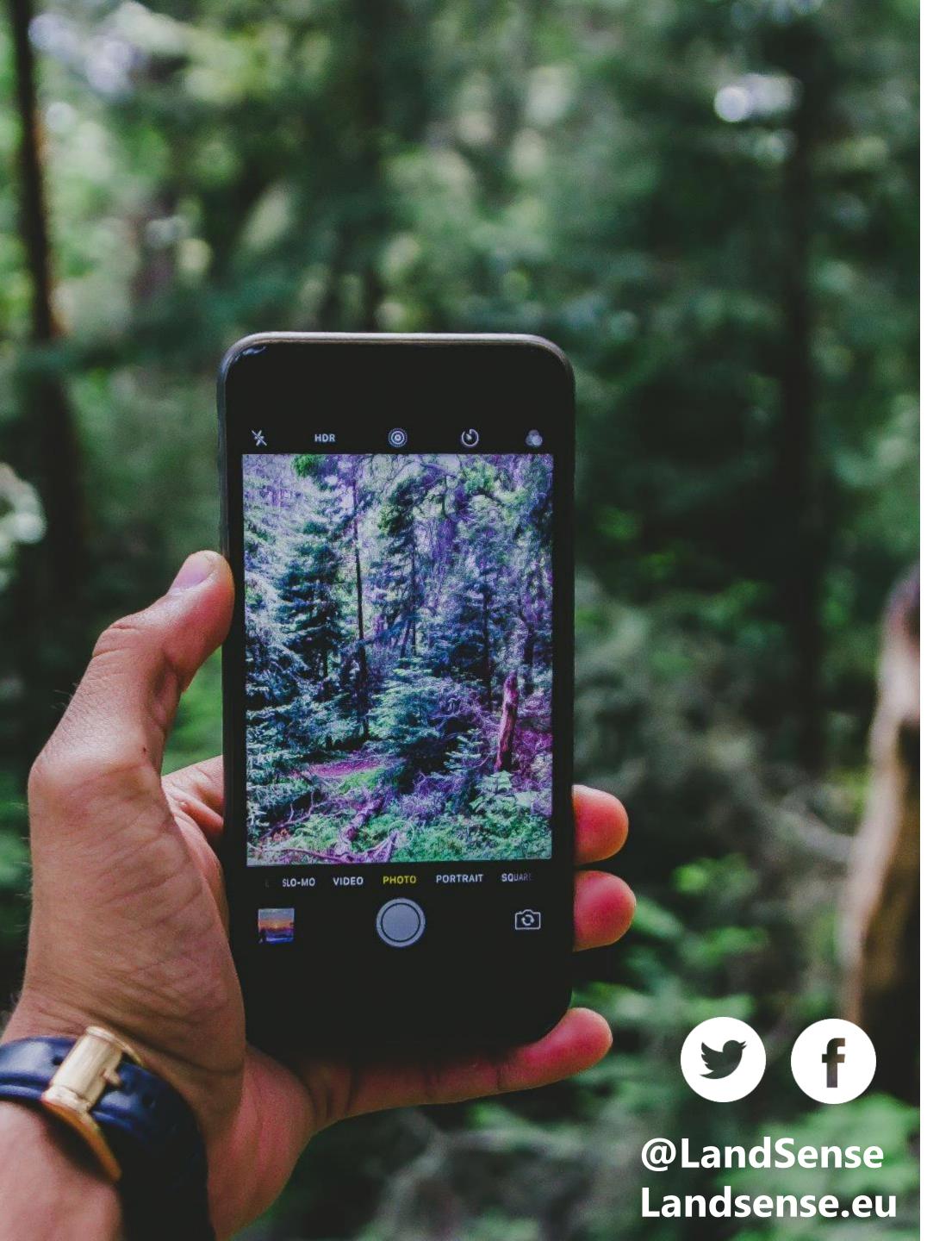
in support of the Sustainable Development Goals CITIZEN SCIENCE ICONFERENCE 14.-15.10.2020

Knowledge for Change: A decade

of Citizen Science (2020–2030)





LANDSENSE



Coupling citizen science and earth observation data to promote environmental monitoring

Inian Moorthy, Linda See, Gebhard Banko, Sofia Capellan, Vladimir Mrkajic, Ana-Maria Olteanu-Raimond, Elizabeth A. Schrammeijer, Michael Schultz, Matej Batič, Steffen Fritz

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



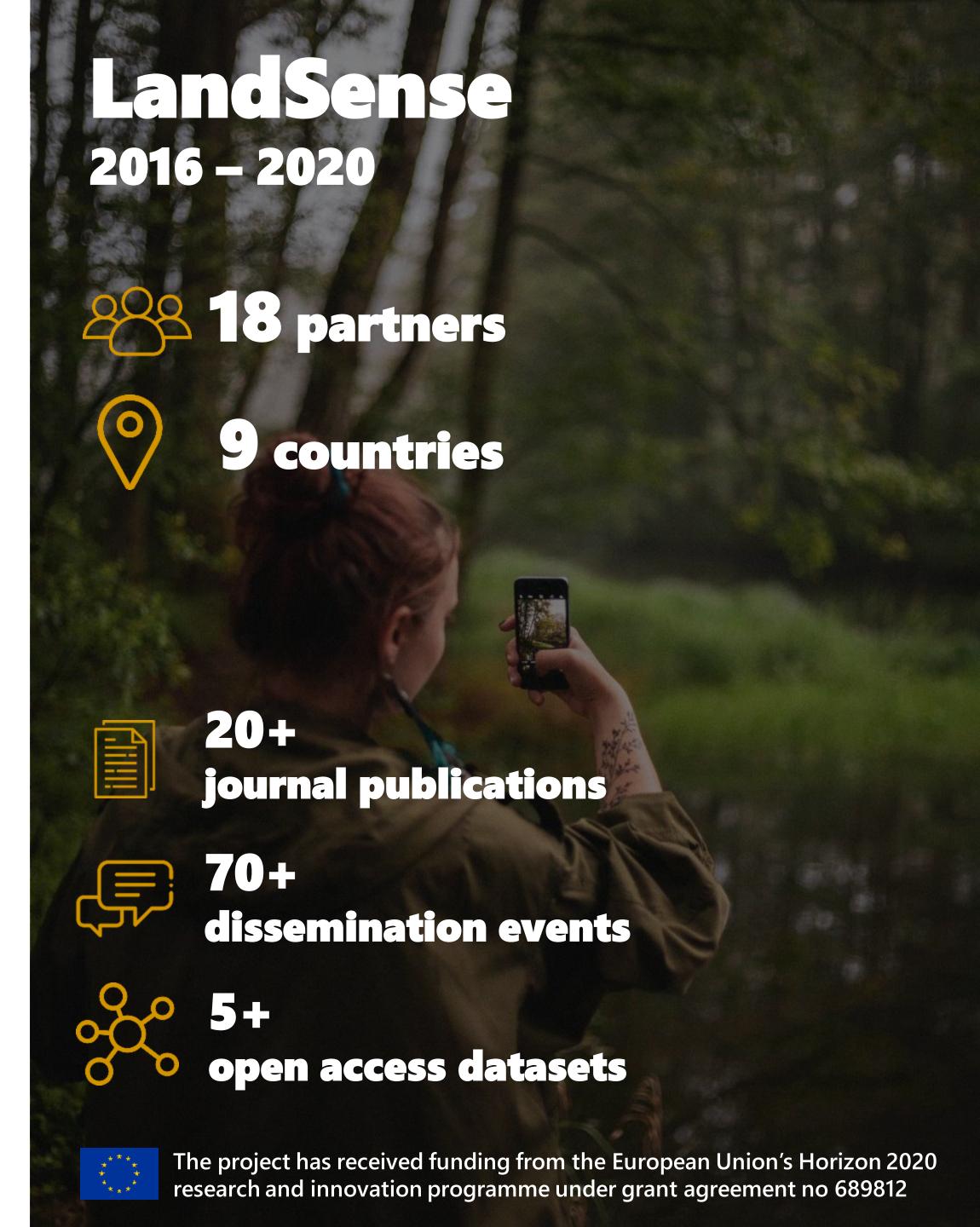
Motivation

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



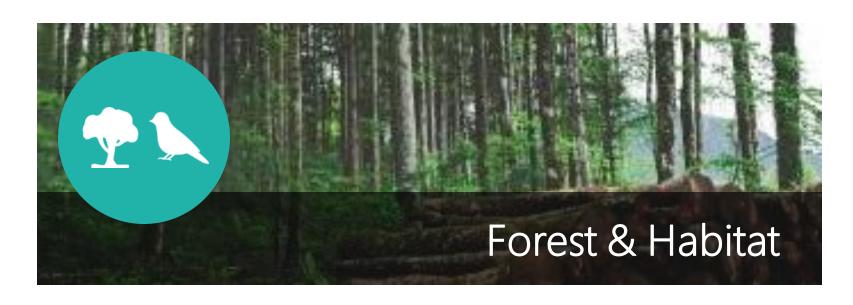


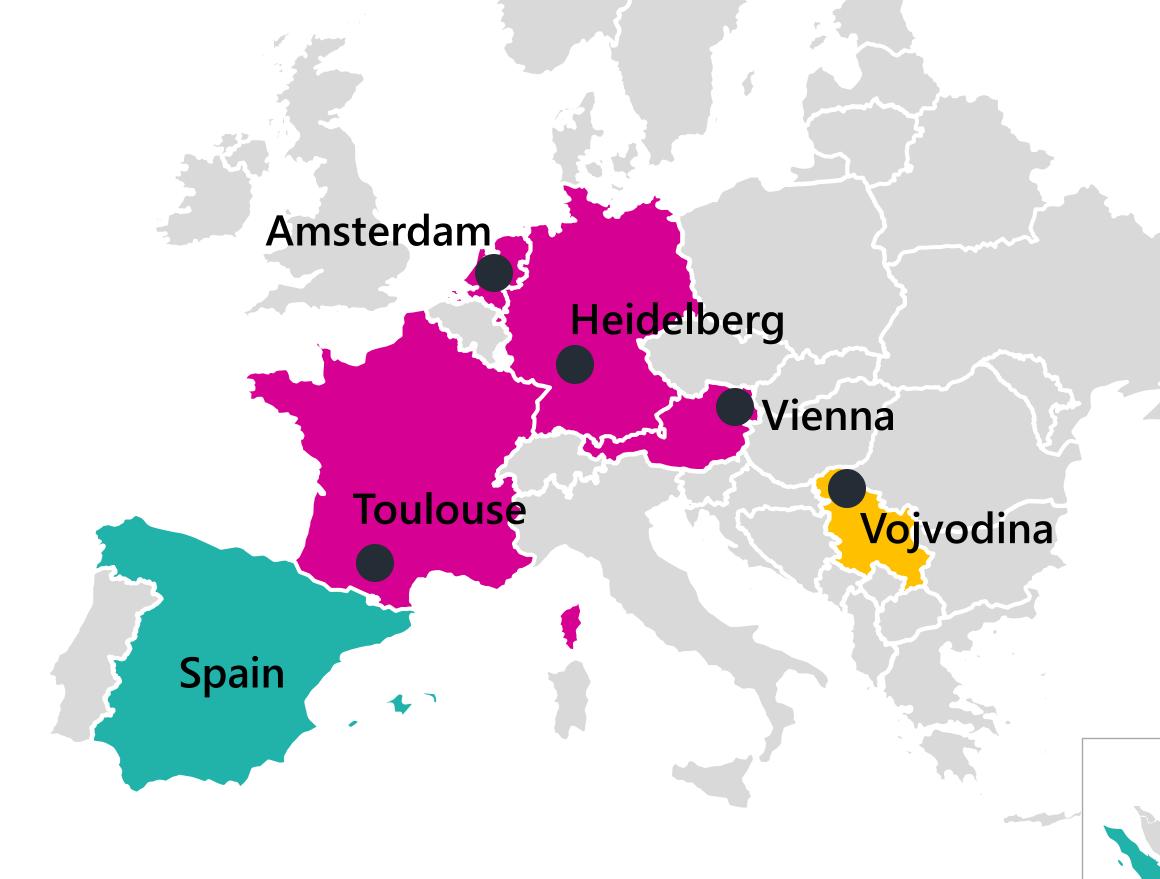
LandSense Pilots

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







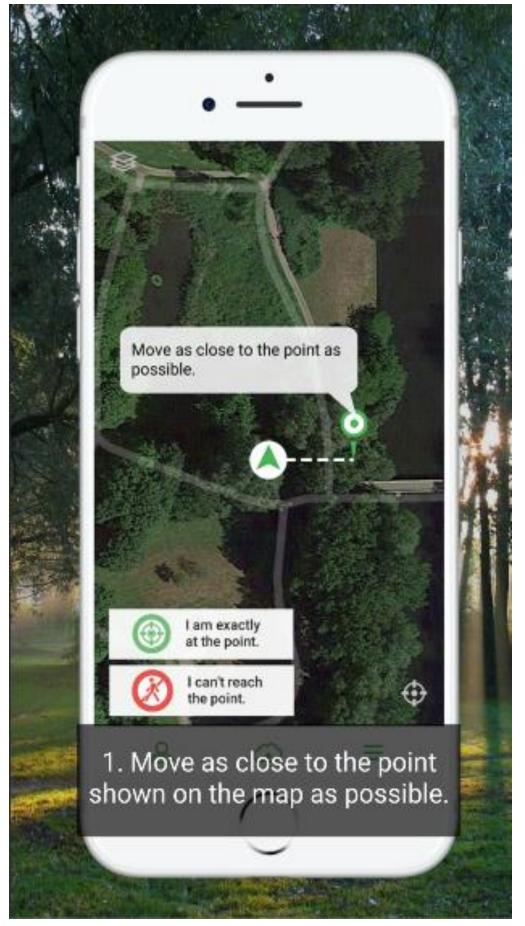


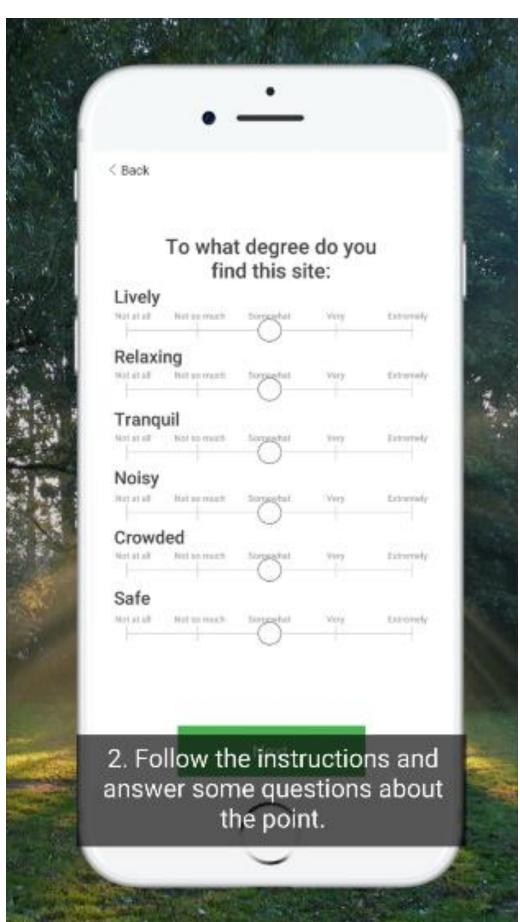
Flores Island,

Indonesia

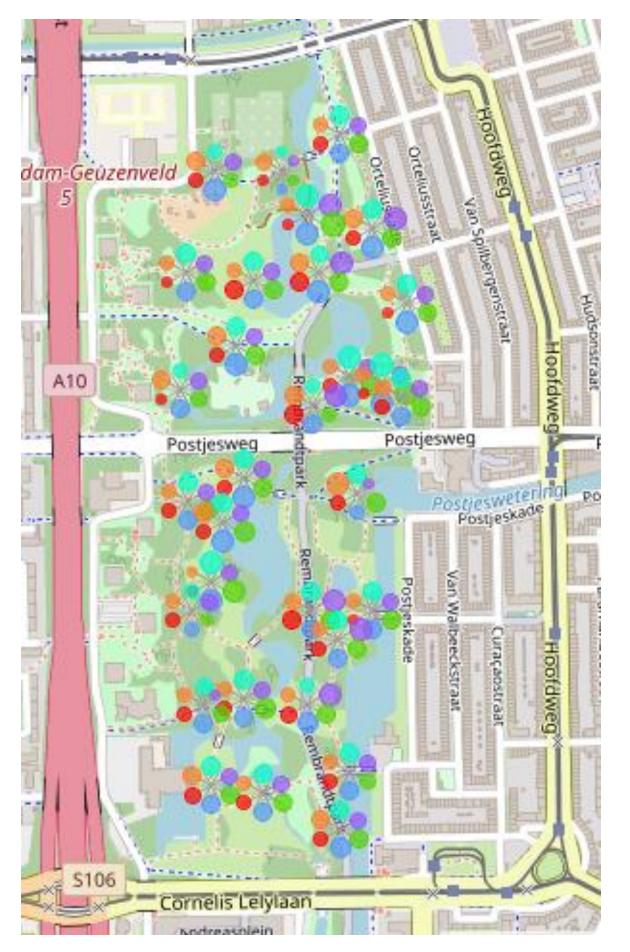
Amsterdam Rembrandt Park

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













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

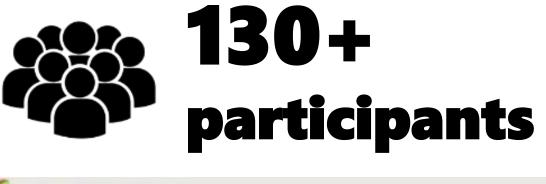




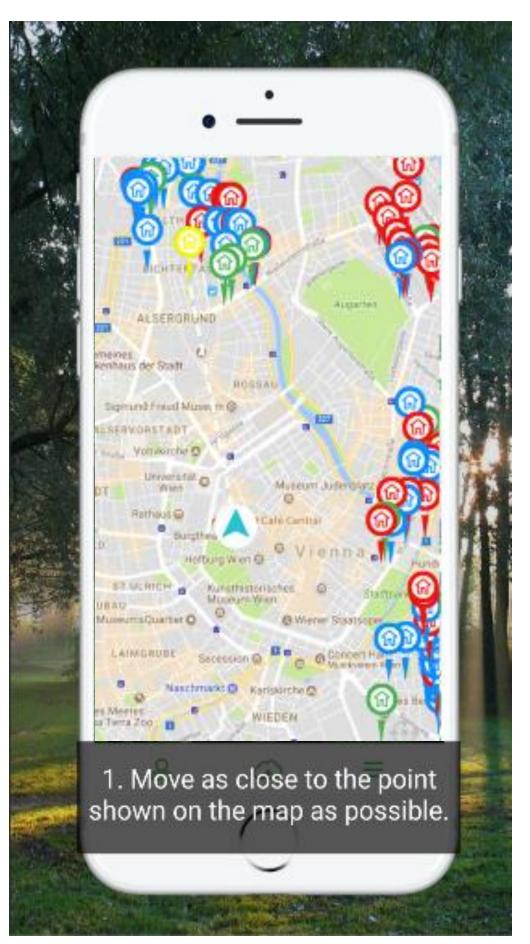


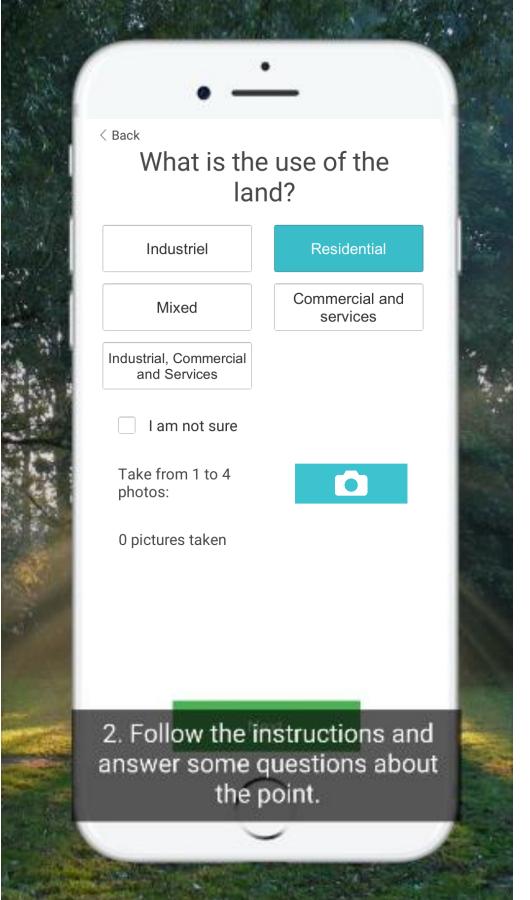
Toulouse – LULC Dynamics

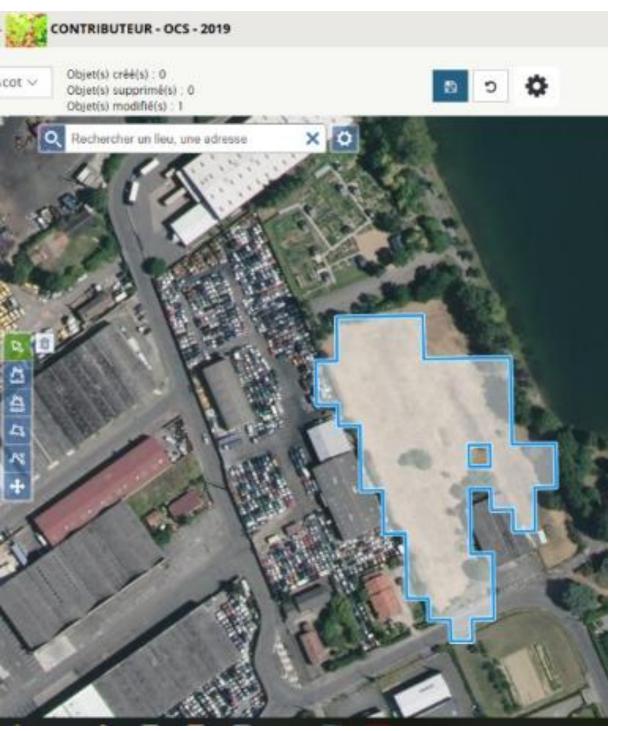
Integrating expert contributions using crowdsourcing approaches into LULC authoritative databases

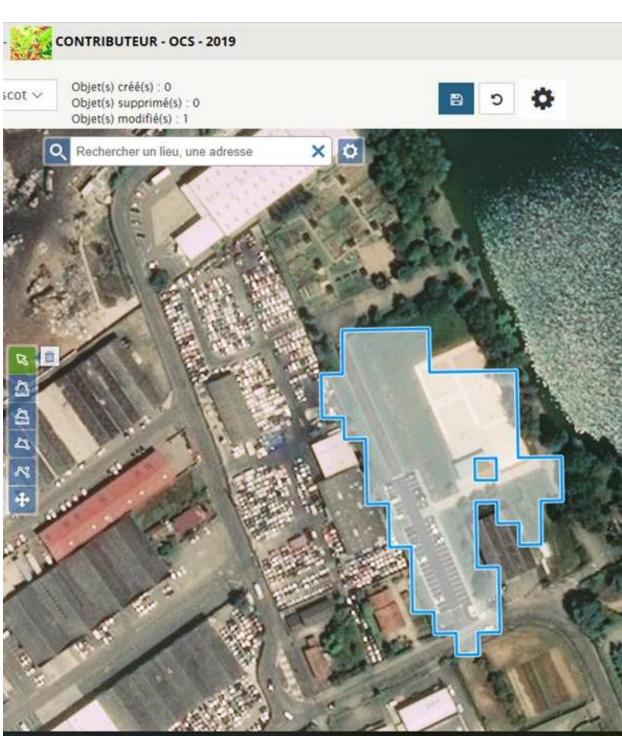












Dataset 1: Sentinel 2 change detection validation 2019

Dataset 2: Land use classification 2019

Dataset 3: In-situ validation 2018





Vojvodina

Leveraging the power of EO systems and crowdsourcing

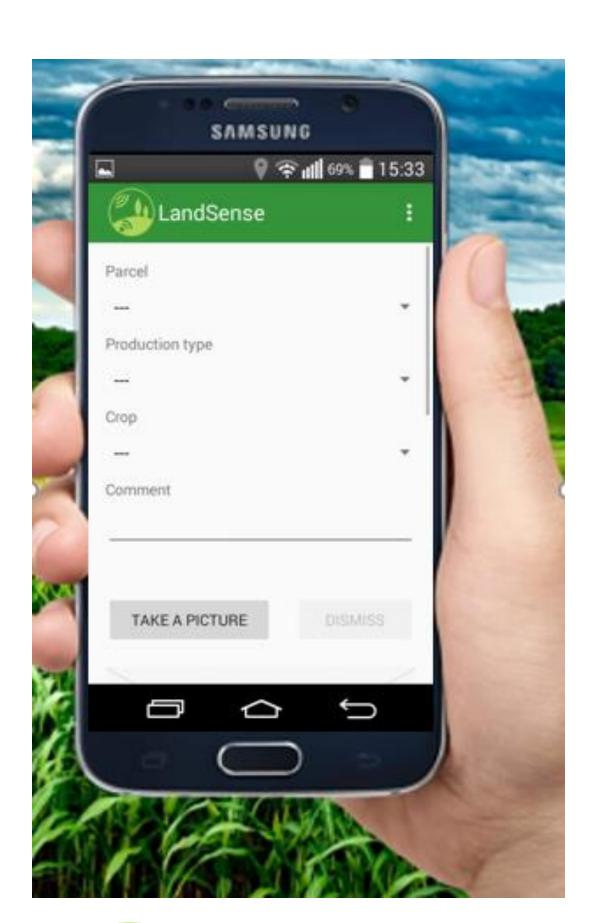
Table added service to farmers

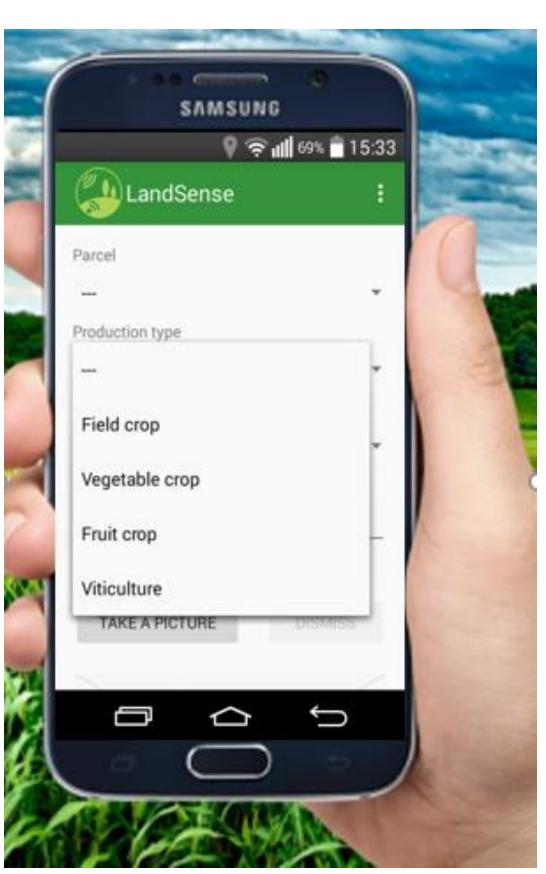
Table added service to farmers

Table added service to farmers









Phase 1: Two high schools & University of Novi Sad







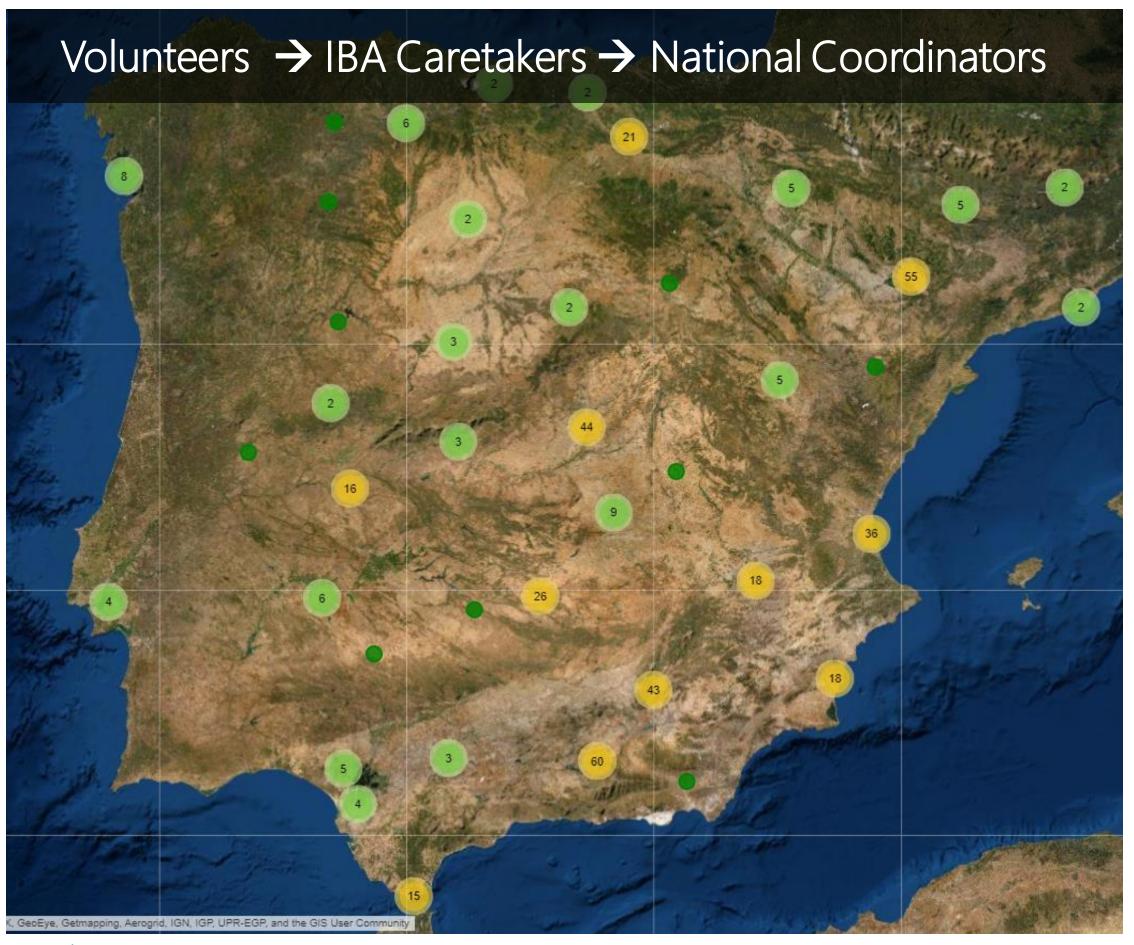
Spain

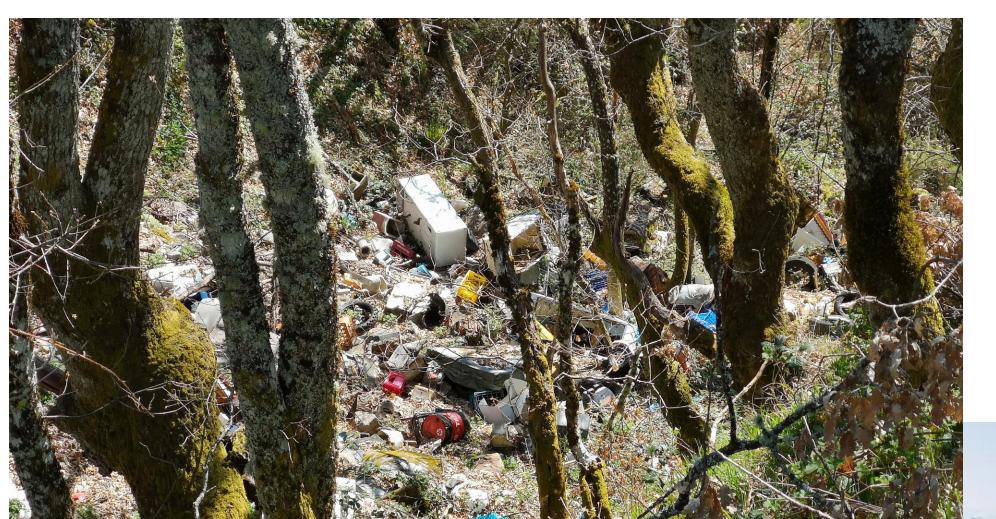
TI

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







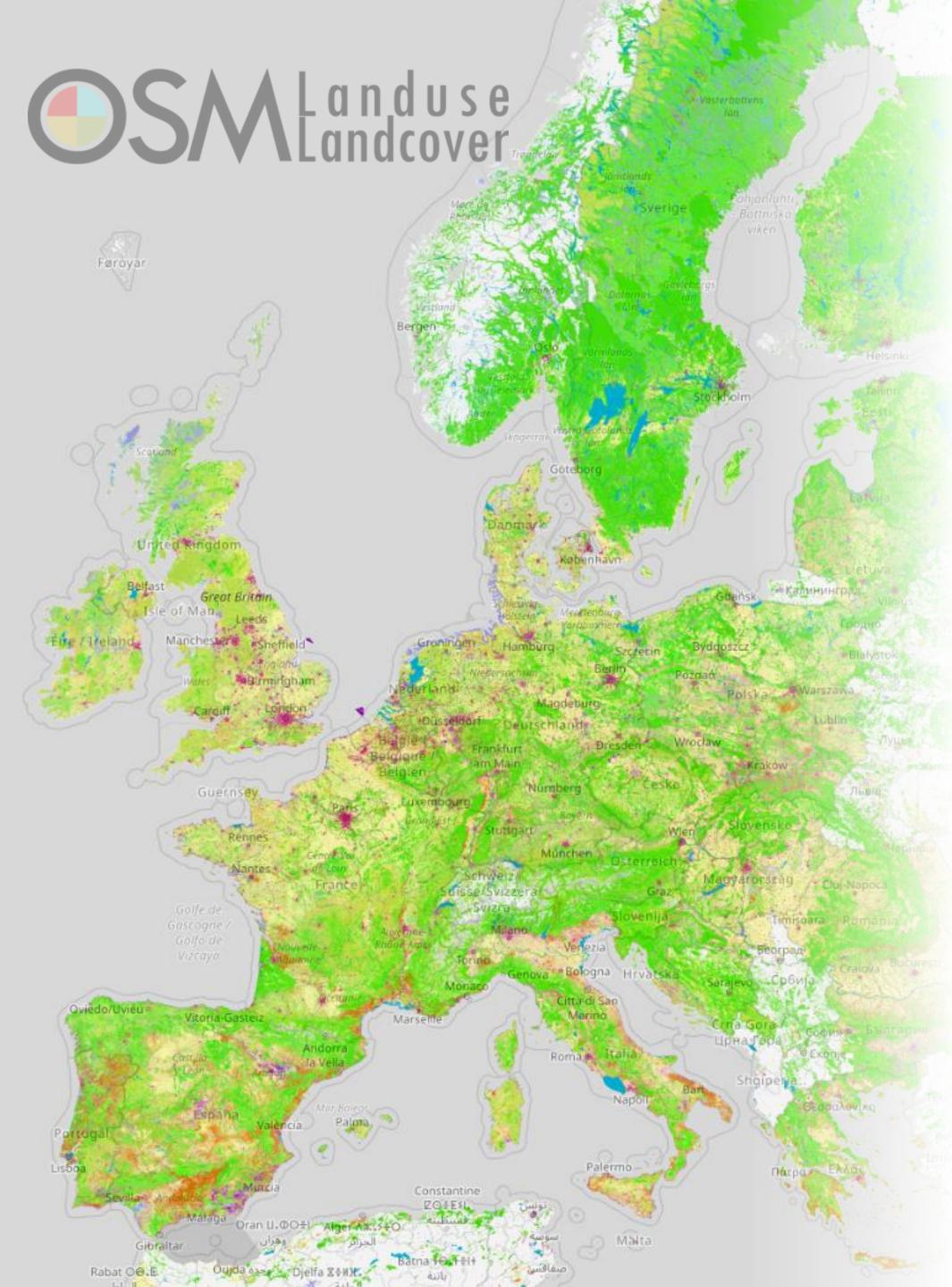










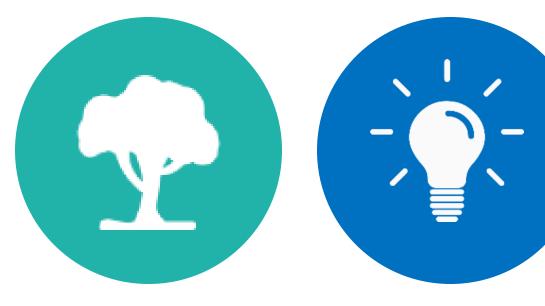


LANDSENSE MAPATHON

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







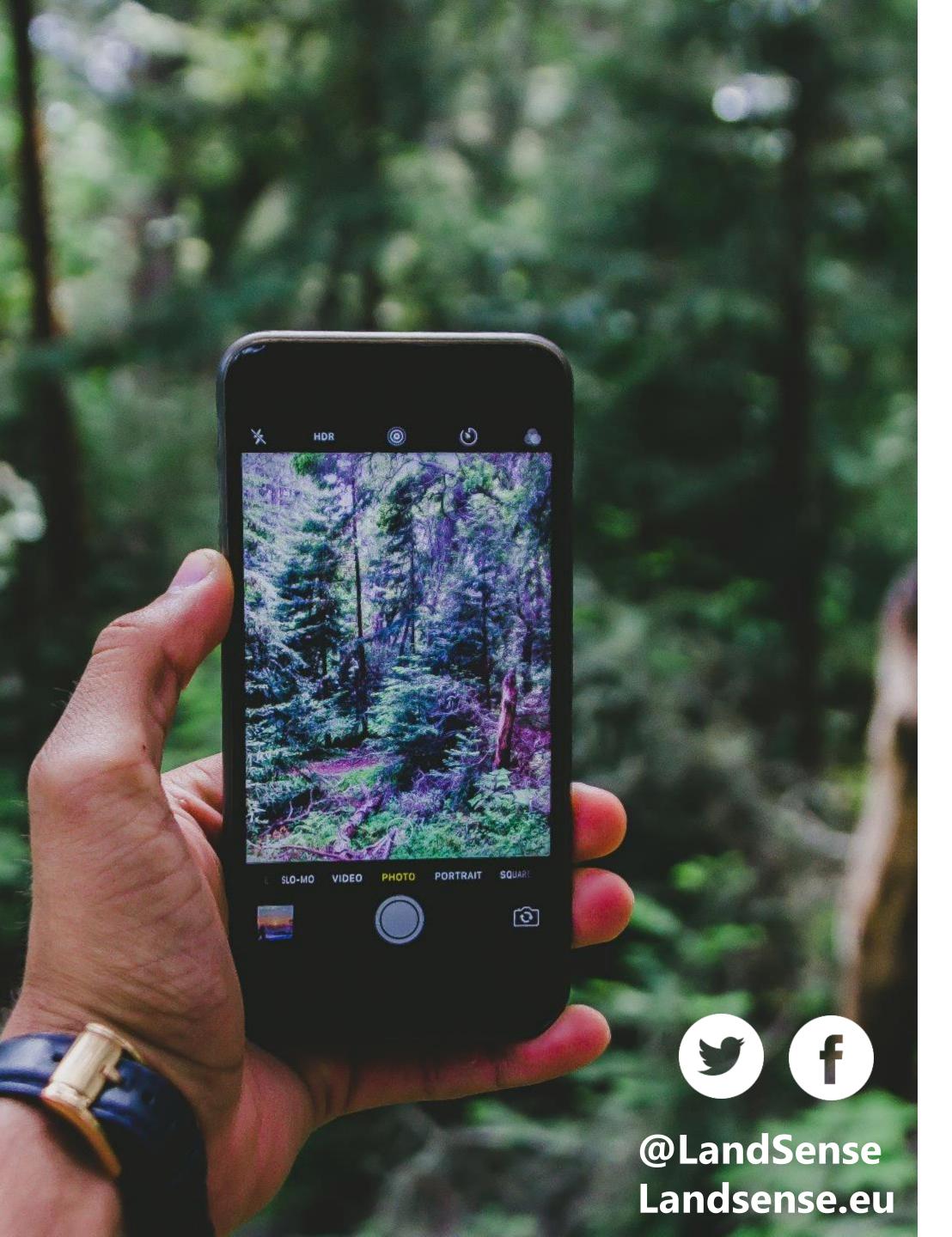


Contribute now!

https://landsense.eu/Mapathon

@LandSense #EURegionsWeek #territorialdata





LANDSENSE



Coupling citizen science and earth observation data to promote environmental monitoring

Inian Moorthy, Linda See, Gebhard Banko, Sofia Capellan, Vladimir Mrkajic, Ana-Maria Olteanu-Raimond, Elizabeth A. Schrammeijer, Michael Schultz, Matej Batič, Steffen Fritz

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

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

