

The LandSense Innovation Challenge

Data-driven solutions for environmental monitoring

CHALLENGE

The *LandSense Innovation Challenge* facilitates collaboration and innovation among stakeholders within the value chain related to land mapping and citizen science. It targets individuals, web-entrepreneurs, start-ups and SMEs to present innovative IT solutions addressing one of the three LandSense domains: **Urban Landscape Dynamics**, **Agricultural Land Use**, and **Forest & Habitat Monitoring**. The challenge focuses on exploiting data streams coming from the LandSense Citizen Observatory, which consist of a diverse set of data including land cover change detection, threats to natural habitats, greenspace monitoring, etc., to design novel LULC solutions targeted at the citizen science community.

DATASETS



Amsterdam – Rembrandt Park



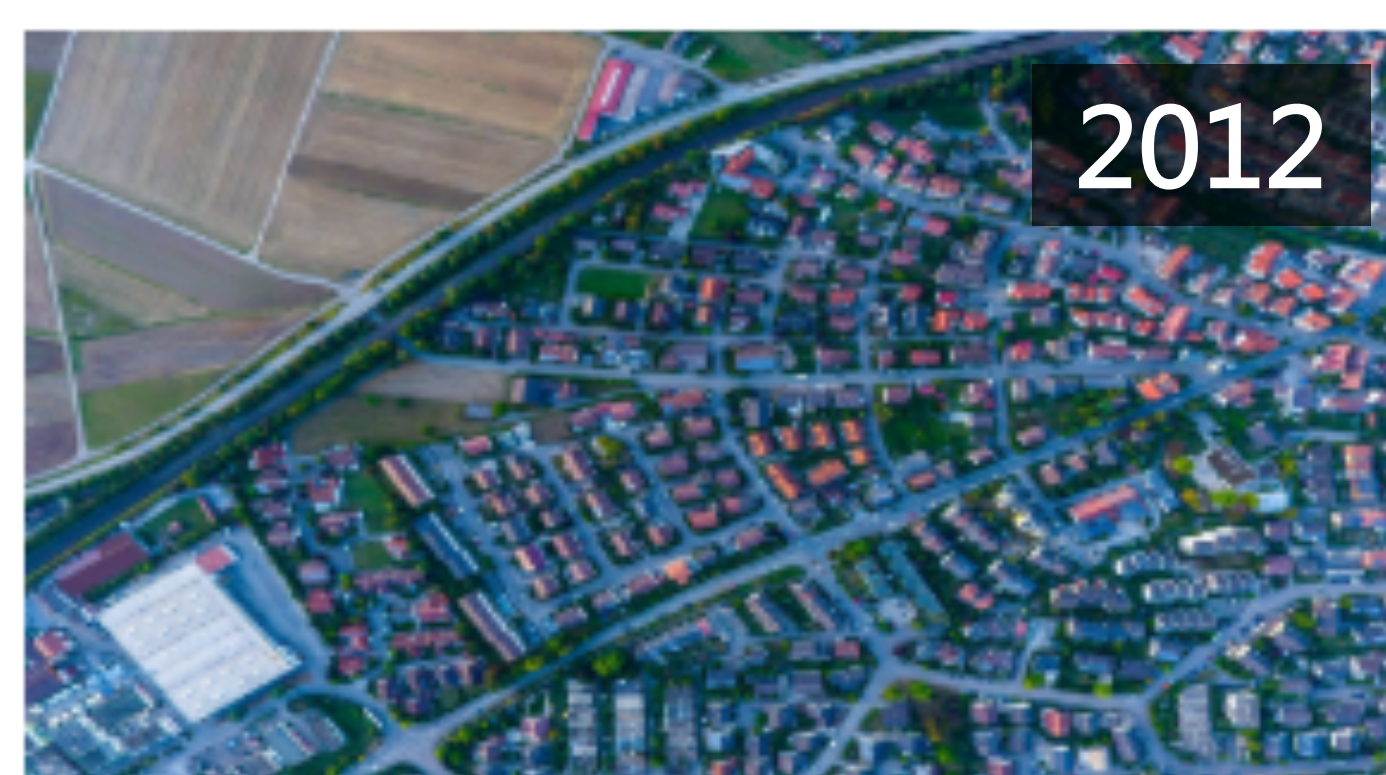
Toulouse – LULC dynamics



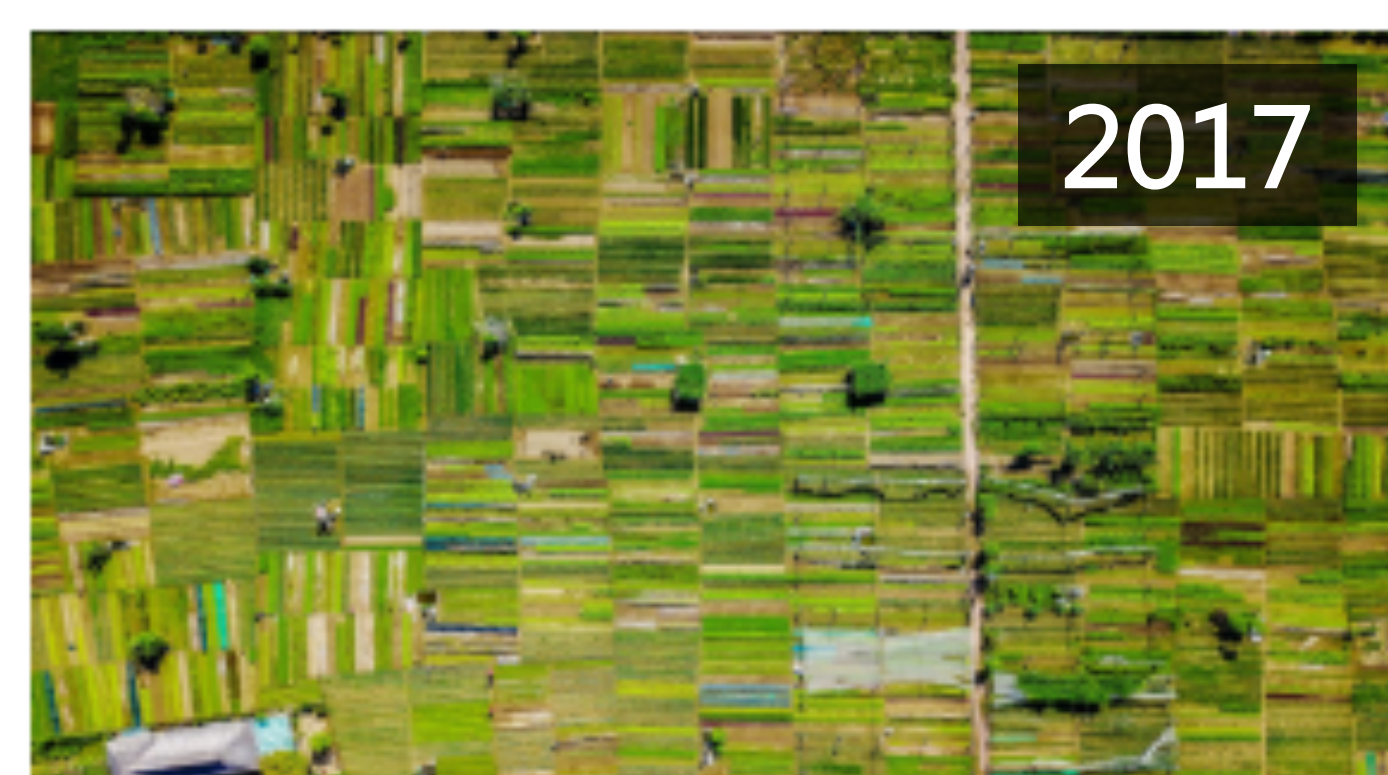
Vienna – City Oases



Vojvodina – Agricultural Land Use



Global LULC Reference Data



Global Field Size Distribution



<https://landsense.eu/Challenge>

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

MOTIVATION

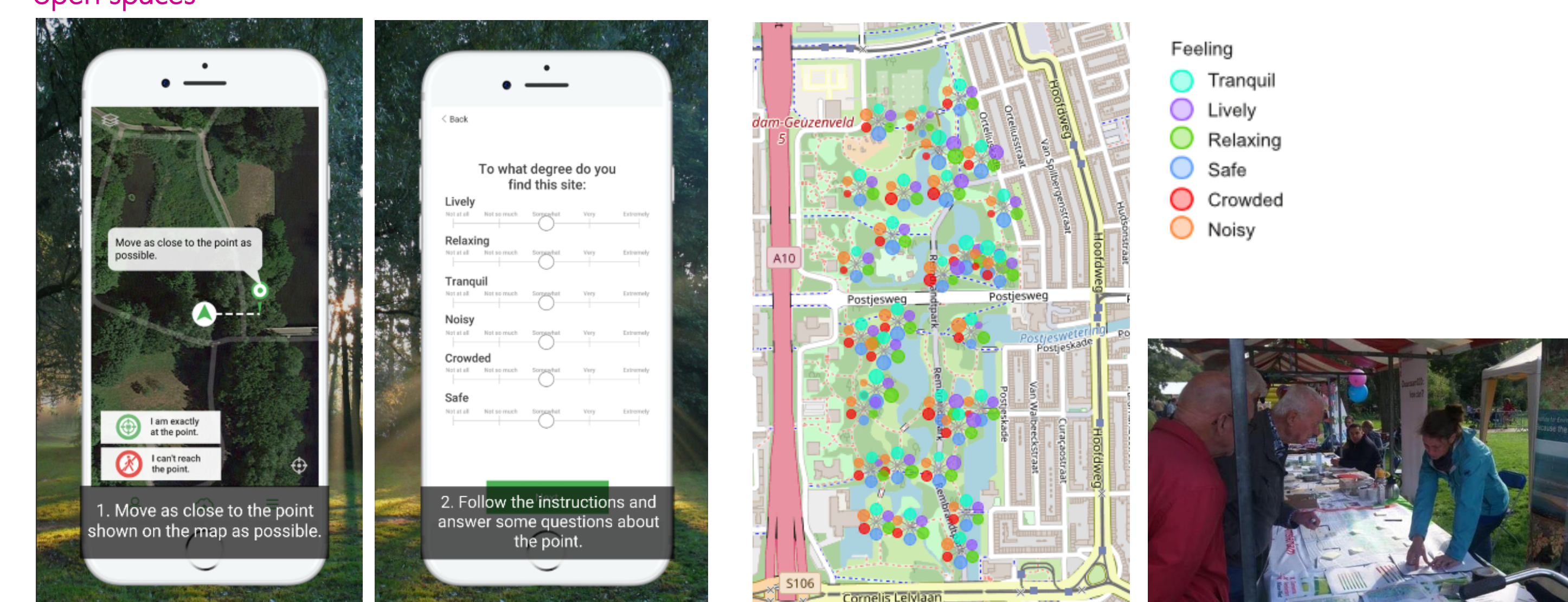
- Improving the quality of Earth Observation (EO)-based Land Use & Land Cover (LULC) maps/products
- Transforming the conventional top-down approach to EO-based monitoring
- Leveraging citizen science and crowdsourcing methods we can more actively engage people in environmental monitoring & stewardship

Amsterdam Rembrandt Park

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

125+ participants

375+ observations

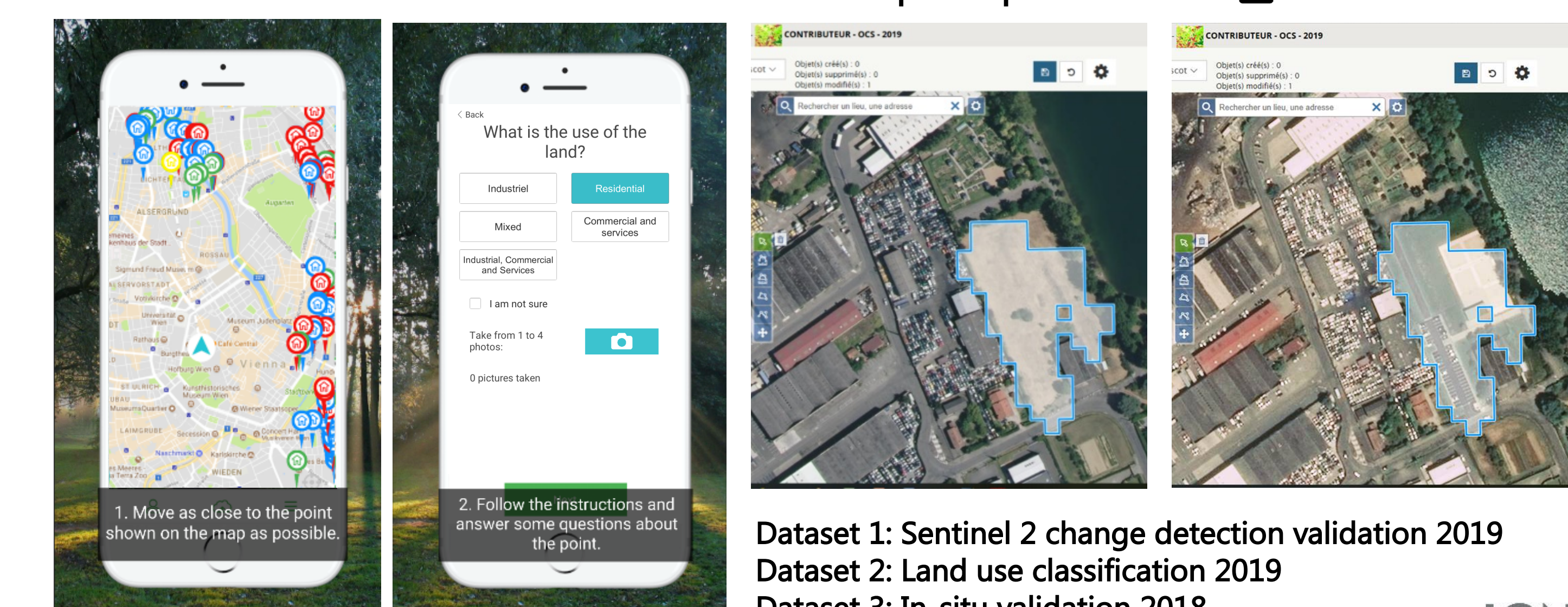


Toulouse – LULC Dynamics

Integrating expert contributions using crowdsourcing approaches into LULC authoritative databases

130+ participants

7500+ observations



LandSense

17 Partner Institutions

9 Countries

Duration:
September, 2016 - December, 2020

Coordinator:
International Institute for Applied Systems Analysis

Website:
www.landsense.eu

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FINALS – September 11, 2020



1st prize

- Grand prize of 2,000 EUR
- 1-year subscription to Sentinel Hub Enterprise, worth 5,000 EUR, provided by SINERGISE

2nd prize

- Prize of 1,000 EUR

3rd prize

- Prize of 500 EUR