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## CityOases - Exploring and Promoting Urban Open Spaces

Karin Wannemacher and Martin Neuwirth

Environment Agency Austria, Ecosystem Research & Environmental Information Management, Austria (karin.wannemacher@umweltbundesamt.at)

What is the best place in the city to play ball, sunbathe, take a Selfie or propose?

Helping the user answer these questions and stimulating civic engagement to monitor changes and encourage improvements within the urban environment are the main drivers for the CityOases app that will officially launch in the spring 2019 in Vienna. It is one of the demo cases developed in LandSense, a Horizon 2020 research project that combines Earth Observation (EO) with other innovative methods of data collection. The project aims to establish a citizen observatory that will provide data to stakeholders, from researchers to businesses. With CityOases, the project is aiming for a mobile application for monitoring green spaces and gathering public perception... It also tries to add user benefits to data collection.

For the user, the CityOases app is a tool to look for and share recommendations and popular locations in the urban public space. Additionally the user is able to record valuable information on the activities (like such as playing, skating, bird watching or having a picnic) that that can be done in these spaces as well as the suitability of the area for such activities. Additionally, information on the subjective perception of various aspects of the space like comfort, safety, attractiveness or the maintenance state of the infrastructure are collected and shared with other participants. Photos taken by the citizen scientists in the four cardinal directions allow the project team to provide stakeholders with a time series of pictures which can be used to detect and document the change in urban structure and also monitor the phenology of urban vegetation as well. To link the collected data with EO a time series of Copernicus's Sentinel-2 Data is going to be processed to show the phenological characteristics of green urban areas in Austria's capital.