DUNS
Why should you use it?

DUNS is a centralised service to (1) register the use of citizen science observations downloaded from the Cos4Bio and Cos4Env portals and (2) make this information available to the citizen observatory the observation comes from. The aim is to help make citizen observatories aware of how their data is used and reward their users' contributions.

Cos4Cloud
Co-designing Citizen Observatories Services for the European Open Science Cloud

01
USERS UPLOAD DATA TO A CITIZEN OBSERVATORY
Every day, participants send all sorts of data to citizen observatories (COs). For example, biodiversity pictures or air quality measurements.

Natusfera
Pl@ntNet
ODOUR COLLECT
iSpot ispotnature.org
canair.io

OTHER CITIZEN OBSERVATORIES

Cos4Bio and Cos4Env portals

02
SOME OF THESE OBSERVATIONS ARE AVAILABLE ON THE Cos4Bio AND Cos4Env PORTALS

LSIDs

03
DUNS GENERATES A UNIQUE IDENTIFIER FOR EACH OF THEM
When someone downloads an observation from Cos4Bio or Cos4Env, (1) a form will pop up asking them why they are downloading it (contribute to a paper, a scientific study, etc.) and (2) DUNS will generate an LSID* (a unique URL identifier) for each observation.

DUNS

OBSERVATION INFORMATION

04
MONITORING USE OF OBSERVATIONS
These LSIDs make it possible to monitor how the observation is used. How? Firstly, anyone who uses one of these observations or datasets must cite them on any website by mentioning the associated LSIDs. So, when someone consults the data, the DUNS service is notified and:
(1) registers the request and the source
(2) stores this information
(3) shows anyone who clicks on this link (with the associated LSID) information about a specific observation or dataset (species, author, date, etc.).

05
DUNS REGISTERS ALL THE CLICKS
DUNS collects the events (clicks) generated by all users who consult the observations on any website, and then the COs can access and analyse this information.

06
CONNECT YOUR CITIZEN OBSERVATORY TO DUNS
DUNS has an API to integrate the usage information for their observations into the COs, allowing them to improve or develop recognition systems.

07
REWARD YOUR USERS
DUNS will help reward citizen science users for the valuable data they provide and, ultimately, allow citizen scientists to know where, when, and how often their observations are used.