

# WEED

## WORLD ECOSYSTEM EXTENT DYNAMICS

An open, globally-applicable toolbox to support countries in mapping ecosystems and their dynamics.

Generating fit-for-purpose indicators for multiple global policy frameworks (SEEA-EA, GBF, SDGs, etc.)

### Champion Users

Columbia, Vietnam, South Africa, Greece, Norway, Czech Republic, European Environment Agency

Co-created and evaluated with users



Funded by the  
European Space Agency



**vito**

**BC3**

BASQUE CENTRE FOR  
CLIMATE CHANGE  
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International Institute for  
Applied Systems Analysis

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**Globally applicable:** use the toolbox to produce your own standardised ecosystem maps for terrestrial, freshwater, and coastal ecosystems, including intertidal zones, and submit them to the Global Ecosystems Atlas

**Context-aware:** integrate your own data – the toolbox will automatically optimise the results for your region of interest and relevant ecosystem types, through thematic expert models

**Map ecosystems:** at high spatial resolution (10-30 m) according to the most important ecosystem typologies: European Nature Information System (EUNIS and EU extent typology), IUCN Global Ecosystem Typology (GET); with the option for crosswalks with national or other typologies (e.g. Ramsar, EU Habitats Directive Annex I)

**Monitor dynamics:** provide consistent, high confidence records for trend analysis and reporting

Co-created with four thematic experts (Danish Hydraulic Institute, James Cook University, Ecounting, University of Bonn), six national institutes (Norwegian Institute for Nature Research, Czech University of Life Sciences Prague, University of Patras, Alexander von Humboldt Institute for Biological Resources Research, South African Environmental Observation Network, Vietnam Academy of Science and Technology), and the European Environment Agency

**Indicators:** direct output to ease ingestion for reporting (e.g. GBF A.2 indicator, ecosystem extent accounting tables)

**Wide applicability:** for countries, businesses, investors and financial institutions, and scientists and research networks

**Open:** an open-source, flexible and innovative toolkit to map and monitor, leveraging advances in computing and Earth observations, following the FAIR principles, and built upon existing state-of-the-art and sustainable platforms: ARIES (supported by UNSD), OpenEO (supported by ESA), Laco-WiKi (supported by IIASA)

**Fully transparent:** access to all data and intermediate layers, fully automated documentation

Scan QR-code  
for more info



WEED contributes to the Global Ecosystems Atlas, a digital public good convened by the Group on Earth Observations.

