

**Policy**

**Europe:** EU Biodiversity Strategy for 2030; Dir. Habitat 92/43/UE; 92/43/EEC; Reg. 477/2011 (birds and natural habitats); Action Plan COM2017/ 198 final, EU Soil Strategy for 2030 COM(2021) 699 final

**Italy:** Strategia Nazionale per la biodiversità al 2030.

First draft

## TOOL BIODIVERSITY – Territorial Scale: Campania

**WHY**

“Biodiversity is the variety of life on Earth, it includes all organisms, species, and populations; the genetic variation among these; and their complex assemblages of communities and ecosystems” (V.V. A.A., 1985). It also refers to the interrelatedness of genes, species, and ecosystems and in turn, their interactions with the environment. In such framework, the Natura 2000 initiative is crucial being a network of core breeding and resting sites for rare and threatened species, and some rare natural habitat types which are protected in their own right.

Most recently, the EU’s biodiversity strategy for 2030 aims to further implement the EU-wide network of protected areas on land (and sea) also by enlarging existing Natura 2000 areas, with strict protection for areas of very high biodiversity and climate value. More generally, the EU’s biodiversity strategy for 2030 must be considered a comprehensive, ambitious and long-term plan to protect nature and reverse the degradation of ecosystems. The strategy aims to put Europe's biodiversity on a path to recovery by 2030, and contains specific actions and commitments.

Natura 2000 initiative has already his own data viewer (<https://natura2000.eea.europa.eu/#>) but such data view is somehow disconnected with other key environmental data such as geology, soil, land use, climate etc. and in addition the data cannot be queried at the scale of administrative bodies (e.g. municipalities, province, regions) and this may limit a more widespread adoption.

In such framework, this LANDSUPPORT tool aims to further empower the use of Natura 2000 data by delivering biodiversity reporting – at any NUTS level or also at any Region of Interest freely drawn by the enduser. In addition this reporting which connect standard Natura 2000 data with many other environmental data having a much more integrated analysis of the biodiversity context of any specific site.

**FOR WHOM**

The “Biodiversity” tool is aimed at policy makers, tourist guides, professional interest in environmental studies, researchers.

**HOW – if you want to select your Region Of Interest (ROI)<sup>i</sup>**

The tool allows the free selection of a region of interest ROI in the entire territory of Campania region by following a very simple procedure:

**Operational procedure**

- Simply select the Administrative limits or;
- Click on the "Draw (Polygon)" button on the top bar and draw the ROI boundary;
- Assign a name to the selected ROI<sup>ii</sup>;
- Click on the "Save" button to keep the ROI available in the system for further queries.

**HOW****Operational procedure**

By users' clicking on icon n. Biodiversity, the "model requester" appears, allowing users to choose the region of interest (freely drawn or from administrative units). Click on the "evaluate" button and calculation starts. The system will automatically open the "Results" sub-folder; by clicking the last elaboration performed, in the "Elaboration detail" folder the users can view - and download - the processing result, as a .pdf report. The report returns statistics and spatial distribution (maps and tabs) related to geology, soils, land use synthesis and detail, forest landscape integrity and many other environmental information (elevation, slope, aspect, NDVI, habitat quality). The tool provides information (maps and statistics) on national and regional Parks, reserves, Natura 2000 sites including the full list of the potentially observable species of flora and fauna.

**What for**

The "Biodiversity" tool provides information useful for obtaining an integrated biodiversity reporting of any area selected by the user in Campania.

**LIMITATIONS**

Flora and fauna indicated in the report are potential, therefore those surveyed by the EEA with reference to Natura 2000 sites.

**FUTURE DEVELOPMENT**

The information contained in the report can be implemented with new datasets such as for instance the one dedicated to bird watching.

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<sup>i</sup> Special care is required when user draws/select the Region of Interest. In fact LANDSUPPORT is a multi-scale decision support system. Each of the 15 available tools is designed for a specific application and for a specific scale. Furthermore, the databases using specific standards required for that specific scale. The users of LANDSUPPORT web platform must therefore be well aware of the limitation embedded in the different maps that they require for their specific application. The users must be expert on their specific problem and must understand if the input data offered by the platform are suitable for their problem. In light of the above, the system provides very reliable results only if used appropriately.

<sup>ii</sup> It is also possible to draw a ROI with numerous polygons. In this case, it is possible to assign different values (eg numbers) to each of the drawn polygons.