



MarineLEFT is a decision-making tool with an ergonomic interface, used by Total to quickly map out biodiversity issues related to its projects and sites. It complements the Group's biodiversity decision-making tools. The tool offers a global solution in terms of access to georeferenced biophysical, societal and economic activity data on a given area of study, with a complete and referenced report.

The tool was developed in open access (<https://www.marineleft.ox.ac.uk/>) in accordance with Total's biodiversity commitment N°5 taken as part of the Act4Nature initiative. Marine LEFT was developed on the conceptual basis of the LEFT module dedicated to terrestrial environments; it is the result of a collaboration with the Oxford University's laboratory of ecology and Equinor.

Total contributes to the tool's maintenance in order to make it long-standing. All the data come from recognized sources (WDPA, FAO, OBIS, GBIF, etc.) and are subject to a strict quality control. The tool can help reduce the effort, costs and length of some field campaigns, and contributes to acquisitions' risk assessments. The tool provides information on several parameters:

- Biodiversity: survey data, species richness of some taxa, endangered species richness, vertebrate marine species' migration routes and Critical Habitats [World Bank Performance Standard 6].
- Ecosystem services: commercial fisheries, mitigation of natural risks by coastal ecosystems (modeled).
- Threats: sea level rise, ocean acidification, temperature trend, coral bleaching, invasive species.
- Environmental uses: maritime traffic, fishing, wind farms and aquaculture areas.
- General maritime data, functional processes and environmental data: global marine ecoregions (WWF), benthic mapping, etc.