

## **Model based on Ecosystem Services for the implementation of compensatory measures**

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Although some European countries, such as Germany or France, have developed a comprehensive system for the implementation of compensatory measures, other countries such as Spain or Portugal have not developed them yet. Therefore, we present a model designed for the county council of Biscay (Basque Country, Spain) to develop compensation measures based on the evaluation of the ecosystem services (ES) lost due to the development of a liner infrastructure, as well as, the assessment of the suitability of the compensatory measures proposed in the project to compensate for the total loss of those ES. The model is based only in 2 steps so that users, mainly administrative technicians working in this field, can easily use it: 1st To fill in the area (ha) of each compensable ecosystem that will be impacted by the project to evaluate the value of the ES that are lost, and then, the model calculates how much surface area of each ES lost is necessary to compensate, using a compensation factor based on the value of the ES. 2nd To fill in the compensatory measures (restoration, conservation or creation of ecosystems) that are proposed within the project, to determine how much is compensated for each ES with each compensatory measure that is expected to establish. To test the model, the Plan of the Unbe corridor was used as a pilot case. At present, the county council of Biscay is considering the implementation of this compensatory system in the execution of new projects.