

A DECISION SUPPORT SYSTEM FOR THE CONSERVATION OF ENDANGERED BIODIVERSITY ON AGRICULTURAL ECOSYSTEMS. THE CASE OF THE DINAMO PROJECT (LIFE08NAT/IT/000324) IN COASTAL PLANES OF MOLISE.

DSS as a tool for increasing the endangered biodiversity on agricultural landscapes

We present a Decisional Support System (DSS) in a GIS context (ESRI ArcInfo 10) aimed to plan the conservation of endangered biodiversity on agricultural ecosystems. The development of the DSS was founded by the LIFE+ European project (DINAMO, Increasing endangered bioDiversity iN Agricultural and semi-natural areas: a demonstratives Management mOdel). Using an environmental data geo-database, an interdisciplinary team developed a Decisional Model able to define the strategy for the implementation of many conservation actions on agricultural areas of Basso Molise. The DDS is able to model realistic scenarios according to different efficacy levels, and allows to validate the provisional models on the basis of a monitoring of environmental data.



EXAMPLE

Artificial nest setting for the European roller (*Coracias garrulus*)

ASSESSING EFFICIENCY



**1 NEST PER
HECTAR**

**2 NEST PER
HECTAR**

**5 NEST PER
HECTAR**

REAL EUROPEAN ROLLER NEST DENSITY 0 PER HECTAR

**BEST SITUATION (BOITANI ET AL. 2001) 1
COUPLE OF NESTING INDIVIDUALS PER 50 HA**

FARM EXTENSION: 500 HA

NUMBER OF PLANNED ARTIFICIAL NESTS

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