

# SISREP | Management and analysis of reforestations on agricultural land



*SISREP is a project that has developed an advanced statistical model that allows predictive and descriptive analyses to be carried out using a forestation survival prediction tool to ensure the success of new plantations. SISREP is based on the use of knowledge from historical in-situ visits to predict the probability of success of future plantations using machine learning techniques, and on a database with more than 50,000 observations referring to forestations carried out from 1993 to the present day.*

The main objective of SISREP is to make use of the information obtained during inspections in the framework of aid for afforestation and the creation of forest areas in Castilla y León in order to:

- Use of the information obtained in the field for the management of the controlled files.
- Creation of a centralised and geo-referenced database with information on the state of plantations.
- To be able to predict, by means of artificial intelligence techniques, the success of future plantations.
- With the knowledge extracted, review and improve the planning of future actions, allowing the implementation of the most appropriate technical conditions for the new environmental circumstances.

To this end, an infrastructure has been designed and implemented that allows the digitalisation of the entire workflow, from data collection in the field to the use of these data in advanced statistical analysis tools.

The data collected in the field are for example species, altitude, density, slope, method, orientation, age, lithography, with or without sowing, or area.

## DETALII

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### SURSA DE LEMN

Pădure

### TIPUL DE LEMN

Lemn masiv

### TIPUL DE LEMN ÎN CAUZĂ

Reforestation and creation of forest areas

### IMPACTUL ASUPRA MEDIULUI ȘI BIODIVERSITĂȚII

SISREP enables better forest management and ensures the success of new tree plantations, thus improving the preservation of the environment and the creation of new forest ecosystems.

Therefore, the project has a very positive impact on the environment and biodiversity.

### EFACT ASUPRA VENITURILOR

Very positive. Better forest management can generate more income.

### POTENȚIAL DE EXPLOATARE

Very positive, as SISREP is a support system for forest management in multiple variants, as well as a valuable aid to both private owners and managers in the task of creating new forests and, in the medium term, managing specific aspects of existing ones.

The use of data derived from the daily management of administrations is a

### POTENȚIALUL DE MOBILIZARE

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### POTENȚIAL DE SUSTENABILITATE - VALOARE

Foarte pozitiv

### FACILITATEA DE IMPLEMENTARE

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### FACILITATEA DE IMPLEMENTARE - EVALUARE

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### CONDIȚII CHEIE PRELABILE

In order to carry out this project, it would be necessary to have a solid database, compiled over a number of years.

### TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

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highly valuable source of information that can help to improve the services offered by these administrations. To this end, the digitisation of processes becomes a fundamental and indispensable task.

#### HUB

Hub Sud-Vest

#### IMPACT ECONOMIC

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#### CUNOȘTINȚE SPECIFICE NECESARE

Use of digital tools.

#### EFFECT ASUPRA LOCURILOR DE MUNCĂ

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#### COSTURI PENTRU IMPLEMENTARE (EURO - €)

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## MAI MULTE DETALII

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<b>PROVOCARE ABORDATĂ</b> 1. Îmbunătățirea rezilienței pădurilor și adaptarea la schimbările climatice	<b>DOMAIN</b> Inventariere, evaluare, monitorizare Managementul pădurilor, silvicultura, servicii ecosistemice, reziliență Perturbări ale pădurilor, riscuri, răspuns la dezastre	<b>TIP DE SOLUȚIE</b> Modelare, DSS, simulare, optimizare
<b>CUVINTE CHEIE</b> Reforestation database forecasting	<b>SOLUȚIE DIGITALĂ</b> Da	<b>INOVAȚIE</b> Da
<b>ȚARA DE ORIGINE</b> Spania	<b>SCARA DE APLICARE</b> Regional/ sub-național	<b>ANUL DE ÎNCEPUT ȘI DE SFÂRȘIT</b> --

## DATE DE CONTACT

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## REFERENCES AND RESOURCES

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**PAGINĂ WEB**  
[https://www.pfcyl.es/sites/default/files/biblioteca/documentos/ficha\\_sisrep.pdf](https://www.pfcyl.es/sites/default/files/biblioteca/documentos/ficha_sisrep.pdf)

**RESURSE**  
**Presentación : Proyecto SISREP**

**WEBSITE PROJECT**

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**REFERINȚĂ PROIECT**

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PROIECTUL ÎN CADRUL CĂRUIA A FOST CREATĂ ACEASTĂ FIȘĂ INFORMATIVĂ

Rosewood 4.0

DATA POSTĂRII

15 Dec 2021

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

