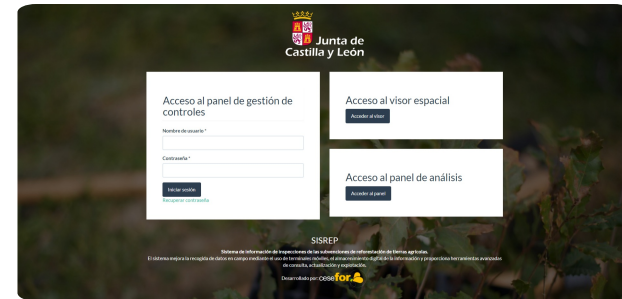


# SISREP | Management and analysis of reforestations on agricultural land



*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.

## DETALJI

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### PODRIJETLO DRVA

Šuma

### VRSTA DRVA

Deblo

### ODGOVARAJUĆA VRSTA DRVA

Reforestation and creation of forest areas

### UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST

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.

### UČINAK NA PRIHOD

Very positive. Better forest management can generate more income.

### POTENCIJAL ISKORISTIVOSTI

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

### POTENCIJAL ZA POVEĆANJE UPORABE DRVA

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### POTENCIJAL ODRŽIVOSTI - VRIJEDNOST

Vrlo pozitivno

### JEDNOSTAVNOST PROVEDBE

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### JEDNOSTAVNOST PROVEDBE - EVALUACIJA

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### KLJUČNI PREDUVJETI

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

### VRSTA DOGAĐAJA NA KOJEM JE PRIKAZAN OVAJ BPI

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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.

**SREDIŠTE**

Jugozapadno čvorište

**GOSPODARSKI UČINAK**

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**POTREBNA POSEBNA ZNANJA**

Use of digital tools.

**UČINAK NA ZAPOS LJIVOST**

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**TROŠKOVI PROVEDBE (EURO - €)**

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## VIŠE DETALJA

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### IZAZOV

1. Poboljšanje otpornosti šuma i prilagodbe klimatskim promjenama

### DOMENA

Popis, procjena, praćenje  
Upravljanje šumama, uzgoj šuma, usluge ekosustava, otpornost  
Nepovoljni prirodni uvjeti, rizici, odgovor na katastrofe

### VRSTA RJEŠENJA

Modeliranje, sustav za podršku odlučivanju, simulacija, optimizacija

### KLJUČNE RIJEČI

Reforestation  
database  
forecasting

### DIGITALNO RJEŠENJE

Da

### INOVACIJA

Da

### ZEMLJA PODRIJETLA

Španjolska

### PODRUČJE PRIMJENE

Regionalno / podnacionalno

### POČETAK I KRAJ GODINE

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## KONTAKT PODATCI

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### VLASNIK ILI AUTOR

CESEFOR, Junta de Castilla y León  
Francisco Gallego  
francisco.gallego@cesefor.com  
<https://www.cesefor.com/>

### IZVJESTITELJ

Fundación CESEFOR  
Angela García de Arana  
angela.garcia@cesefor.com

## REFERENCES AND RESOURCES

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### GLAVNA WEB STRANICA

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

### IZVORI

**Presentación : Proyecto SISREP**

### WEB STRANICA PROJEKTA

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## REFERENCA PROJEKTA

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PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood 4.0

DATUM UNOSA

15 pro 2021

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Link to Rosewood 4.0



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862681

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

