

# 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.

## PODROBNOSTI

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### IZVOR LESA

Gozd

### TIP LESA

Okrogli les

### VRSTA OBRAVNAVANEGA LESA

Reforestation and creation of forest areas

### VPLIV NA OKOLJE IN BIODIVERZITETO

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.

### VPLIV NA PRIHODKE

Very positive. Better forest management can generate more income.

### POTENCIAL IZKORIŠČANJA

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

### POTENCIAL ZA MOBILIZACIJO

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### TRAJNOST - VREDNOST

Zelo pozitivno

### ENOSTAVNOST IZVEDBE

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### ENOSTAVNOST IZVEDBE - OCENJEVANJE

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### KLJUČNI PREDPOGOJI

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

### VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA 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.

**VOZLIŠČE**

Jugozahodno vozlišče

**GOSPODARSKI VPLIV**

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**POTREBNO SPECIFIČNO ZNANJE**

Use of digital tools.

**VPLIV NA DELOVNA MESTA**

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**STROŠKI IZVEDBE (EURO - €)**

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## VEČ PODROBNOSTI

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IZZIV	DOMENA	TIP REŠITVE
1. Izboljšava odpornosti gozdov in prilagoditev na klimatske spremembe	Inventura, ocena, monitoring Gojenje gozdov, gospodarjenje z gozdovi, odpornost, ekosistemske storitve Motnje, tveganja, odziv na naravne nesreče	Modeliranje, DSS, simulacija, optimizacija
KLJUČNE BESEDE	DIGITALNE REŠITVE	INOVACIJA
Reforestation database forecasting	Da	Da
IZVORNA DRŽAVA	OBSEG UPORABE	ZAČETNO IN KONČNO LETO
Španija	Regionalni	--

## KONTAKTNI PODATKI

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## REFERENCES AND RESOURCES

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

**VIRI**  
**Presentación : Proyecto SISREP**

**SPLETNA STRAN PROJEKTA**

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**REFERENCA PROJEKTA**

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PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood 4.0

DATUM OBJAVE

15 Dec 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

