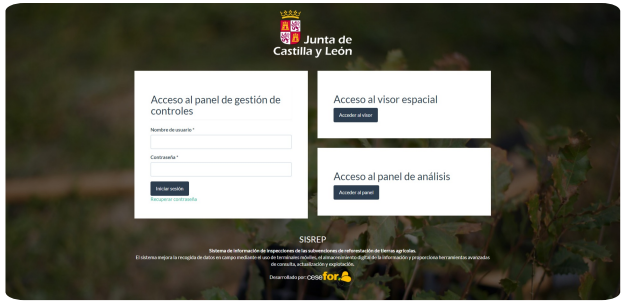
SISREP | Management and analysis of reforestations on agricultural land



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

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.

EFECT 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

--

POTENȚIAL DE SUSTENABILITATE - VALOARE

Foarte pozitiv

FACILITATEA DE IMPLEMENTARE

--

FACILITATEA DE IMPLEMENTARE - EVALUARE

--

CONDIȚII CHEIE PREALABILE

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

--

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

EFECT ASUPRA LOCURILOR DE MUNCă

--

IMPACT ECONOMIC

--

COSTURI PENTRU IMPLEMENTARE (EURO - €)

--

CUNOȘTINȚE SPECIFICE NECESARE

Use of digital tools.

MAI MULTE DETALII

PROVOCARE ABORDATă

1. Îmbunătățirea rezilienței pădurilor și adaptarea la schimbările climatice

DOMAIN

Inventariere, evaluare, monitorizare

Managementul pădurilor, silvicultura, servicii ecosistemice, reziliență

Perturbări ale pădurilor, riscuri, răspuns la dezastre

TIP DE SOLUțIE

Modelare, DSS, simulare, optimizare

CUVINTE CHEIE

Reforestation

database

forecasting

SOLUțIE DIGITALă

Da

INOVAțIE

Da

ȚARA DE ORIGINE

Spania

SCARA DE APLICARE

Regional/ sub-național

ANUL DE îNCEPUT șI DE SFâRșIT

--

DATE DE CONTACT

PROPRIETAR SAU AUTOR

CESEFOR, Junta de Castilla y León

Francisco Gallego

francisco.gallego@cesefor.com

https://www.cesefor.com/

REPORTER

Fundación CESEFOR

Angela García de Arana

angela.garcia@cesefor.com

REFERENCES AND RESOURCES

PAGINă WEB

https://www.pfcyl.es/sites/default/files/biblioteca/documentos/ficha_sisrep.pdf

WEBSITE PROJECT

--

REFERINță PROIECT

RESURSE

Presentación : Proyecto SISREP

--

PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood 4.0

DATA POSTăRII

15 Dec 2021

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

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY