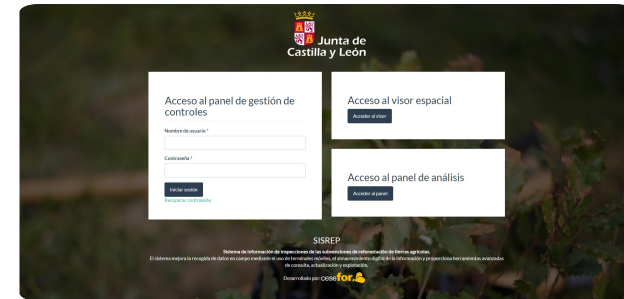


SISREP | Management and analysis of reforestations on agricultural land



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.

DETALJER

OPPRINNELSE FOR TRE

Skog

TYPE TRE

Tre fra rundtvirke

MOBILISERINGSPOTENSIAL

--

BæREKRAFTPOTENSIAL - VERDI

Veldig positivt

TYPE TRE INVOLVERT

Reforestation and creation of forest areas

ENKEL IMPLEMENTERING

--

PÅVIRKNING PÅ MILJØ OG BIOLOGISK MANGFOLD

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.

ENKEL IMPLEMENTERING - EVALUERING

--

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

INNETEKTSEFFEKT

Very positive. Better forest management can generate more income.

VIKTIGE FORUTSETNINGER

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

UTNYTTELSESPOTENSIAL

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.

TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT

--

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

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

South-West Hub

EFFEKT PÅ ARBEIDSPLASSER

--

ØKONOMISK PÅVIRKNING

--

KOSTNADER MED IMPLEMENTERING (EURO - €)

--

SPESIFIKKE KUNNSKAPSBEHOV

Use of digital tools.

MER INFORMASJON

UTFORDRING ADRESSERT	DOMENE	TYPE LØSNING
1. Forbedre skogens robusthet og tilpasningsevne til Inventering, vurdering, overvåking klimaendringer	Skogforvaltning, skogskjøtsel, økosystemtjenester Skogskader, risiko, katastrofeberedskap	Modellering, DSS, simulering, optimalisering
NØKKEWORD	DIGITAL LØSNING	INNOVASJON
Reforestation database forecasting	Ja	Ja
OPPRINELSESLAND	POTENSIALE	START OG SLUTT år
Spania	Regional/deler av landet	--

KONTAKT INFORMASJON

EIER ELLER FORFATTER	RAPPORTØR
CESEFOR, Junta de Castilla y León Francisco Gallego francisco.gallego@cesefor.com https://www.cesefor.com/	Fundación CESEFOR Angela García de Arana angela.garcia@cesefor.com

REFERENCES AND RESOURCES

HJEMMESIDE (HOVEDSIDE)	RESSURSER
https://www.pfcyl.es/sites/default/files/biblioteca/documentos/ficha_sisrep.pdf	Presentación : Proyecto SISREP
PROSJEKTETS HJEMMESIDE	
--	
REFERANSE TIL PROSJEKT	
--	

PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER

Rosewood 4.0

INNLEGGSDATO

15 des 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

