

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

VEDENS URSPRUNG

Skog

TRÄTYP

Rundvirke

TYP AV TRÄ

Reforestation and creation of forest areas

PÅVERKAN PÅ MILJÖ & BIOLOGISK MÅNGFALD

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.

EKONOMISK EFFEKT

Very positive. Better forest management can generate more income.

KOMMERSIELL POTENTIAL

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

MOBILISERINGSPOTENTIAL

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HÅLLBARHETS POTENTIAL - VÄRDE

Mycket positiv

ENKEL IMPLEMENTERING

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ENKEL IMPLEMENTERING - UTVÄRDERING

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NYCKEL FÖRUTSÄTTNINGAR

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

TYP AV EVENEMANG DÄR DENNA BPI HAR PRESENTERATS

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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.

NAV

Sydvästra centrumet

EFFEKT ANTAL ANSTÄLLDA

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EKONOMISK PÅVERKAN

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KOSTNADER FÖR IMPLEMENTERING (EURO - €)

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SPECIFIKA KUNSKAPSBEHOV

Use of digital tools.

MER INFORMATION

UTMANING SOM ADRESSERAS

1. Förbättra skogens motståndskraft och anpassning till klimatförändringar

DOMÄN

Inventering, värdering, övervakning
Skogsförvaltning, skogskjötsel, ekosystemtjänster
Skogsskador, risker, katastrofberedskap

TYPE AV LÖSNING

Modellering, DSS, simulering, optimering

NYCKELORD

Reforestation
database
forecasting

DIGITAL LÖSNING

Ja

INNOVASION

Ja

UPPHOVSLAND

Spanien

POTENTIAL

Regional/landsdel

START OCH SLUTÅR

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KONTAKT INFORMASION

ÄGARE ELLER FÖRFATTARE

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RAPPORTÖR

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REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

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

PROJEKTETS HEMSIDA

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PROJEKTREFERENS

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RESURSER

Presentación : Proyecto SISREP

PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FÖR INLÄGG

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

