Forest-LidaRioja | Forest inventory and fuel model map using remote sensing technologies



This project has created an updated cartography of the main forest species in La Rioja, collecting data such as the volume of wood, tree heights and vegetation structure for every 25x25m of land, with a very high level of resolution.

The Forest-LidaRioja operational group has been formed with the aim of developing a forest inventory and a fuel model map of La Rioja using remote sensing technologies. Among the main practical utilities, we can highlight the importance for improving sustainable forest management, since with accurate and updated data, better decisions can be made and actions in forest areas can be better planned. This project has allowed the development of methodologies and processes for the integration of different sources of information (mainly airborne LiDAR from PNOA 2016 data and OPTICA satellite information). These methods are supported by the development of algorithms that correlate by statistical methods precise terrain data with LiDAR data, requiring the realization of very well calibrated forest plots and measurements located with sub-meter precision in strategic points for each forest species and working area.

The main results of the Forest-LidaRioja Project are:

- Forest inventory of the forests of La Rioja.
- Mapping of fuel models of the forest area of La Rioja to plan preventive forest fire prevention work.
- Study of the evolution of poplar groves in the region and their supply potential.
- Technical training on the products generated for professionals interested in their practical use.

The products generated are open to the public so that anyone can download and use them.

DETALJER

VEDENS URSPRUNG

Skog

TRäTYP

--

TYP AV TRä

Wood standing

PåVERKAN På MILJö & BIOLOGISK MåNGFALD

Difficult to estimate

EKONOMISK EFFEKT

--

KOMMERSIELL POTENTIAL

--

NAV

Sydvästra centrumet

EKONOMISK PåVERKAN

MOBILISERINGSPOTENTIAL

Difficult to define, but if we base ourselves on the annual felling and the possibilities in La Rioja, it could be between 100,000 and 250,000 m3 of wood, but it would not be only through this system.

HåLLBARHETS POTENTIAL - VäRDE

Mycket positiv

ENKEL IMPLEMENTERING

A very easy-to-use application has been created to make it user-friendly for everyone, with a basic variant for all audiences that is intuitive to use and a more advanced variant for technicians (the latter was accompanied by training).

ENKEL IMPLEMENTERING - UTVäRDERING

Very Easy

NYCKEL FöRUTSäTTNINGAR

--

TYP AV EVENEMANG DäR DENNA BPI HAR PRESENTERATS

--

EFFEKT ANTAL ANSTäLLDA

Difficult to specify

KOSTNADER FöR IMPLEMENTERING (EURO - €)

High at the scale of forest users, facilitates many processes linked to public forest services and lowers inventory costs for both public and private users.	243000

SPECIFIKA KUNSKAPSBEHOV

For the all public variant none, only knowledge of the location of the plot and internet access, for the technical variant knowledge of foresters and some rudiments of using the application.

MER INFORMATION

UTMANING SOM ADRESSERAS

2. Förbättra infrastruktur och kapacitet hos offentliga aktörer

DOMäN

Inventering, värdering, övervakning

Avverkning, infrastruktur, logistik

TYPE AV LöSNING

Modellering, DSS, simulering, optimering

NYCKELORD

Cartografía

Inventario forestal continúo

LiDAR

DIGITAL LöSNING

Ja

INNOVASION

Ja

UPPHOVSLAND

Spanien

POTENTIAL

Regional/landsdel

START OCH SLUTåR

2018 - 2020

KONTAKT INFORMASION

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RAPPORTöR

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REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

https://www.forest-lidarioja.info/

PROJEKTETS HEMSIDA

https://www.forest-lidarioja.info/grupo-operativo/

PROJEKTREFERENS

FEADER

RESURSER

Spatial Data Infrastructures of the Government of La Rioja (IDErioja)

Application for consulting and extracting data from specific plots of land

LOGO FöR BEST PRACTICE

FOREST LIDARIOJA

LOGO, HUVUDORGANISATION

GOBIERNO DE ESPAÑA MINISTERIO DE AGRICULTURA Y PESCA, ALIMENTACIÓN Y MEDIO AMBIENTE

FEADER: EUROPA INVIERTE EN ZONAS RURALES

Gobierno de La Rioja

PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FöR INLäGG

8 sep 2021

ROSEWOOD 4.0 Sustainable Wood for Europe

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

HTML

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

cesefor

Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León