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.

DETALJI

PODRIJETLO DRVA

Šuma

VRSTA DRVA

--

ODGOVARAJUĆA VRSTA DRVA

Wood standing

UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST

Difficult to estimate

UČINAK NA PRIHOD

--

POTENCIJAL ISKORISTIVOSTI

--

SREDIŠTE

Jugozapadno čvorište

GOSPODARSKI UČINAK

POTENCIJAL ZA POVEĆANJE UPORABE DRVA

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.

POTENCIJAL ODRŽIVOSTI - VRIJEDNOST

Vrlo pozitivno

JEDNOSTAVNOST PROVEDBE

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).

JEDNOSTAVNOST PROVEDBE - EVALUACIJA

Very Easy

KLJUČNI PREDUVJETI

--

VRSTA DOGAđAJA NA KOJEM JE PRIKAZAN OVAJ BPI

--

UČINAK NA ZAPOŠLJIVOST

Difficult to specify

TROŠKOVI PROVEDBE (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

POTREBNA POSEBNA ZNANJA

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.

VIŠE DETALJA

IZAZOV DOMENA VRSTA RJEŠENJA

2. Unaprjeđenje infrastrukture i kapaciteta javnih Popis, procjena, praćenje Modeliranje, sustav za podršku odlučivanju,

dionika Sječa, infrastrutura, logistika simulacija, optimizacija

KLJUČNE RIJEČI DIGITALNO RJEŠENJE INOVACIJA

Cartografía Da Da

Inventario forestal continúo

LiDAR

ZEMLJA PODRIJETLA PODRUČJE PRIMJENE POČETAK I KRAJ GODINE

Španjolska Regionalno / podnacionalno 2018 - 2020

KONTAKT PODATCI

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REFERENCES
AND RESOURCES

GLAVNA WEB STRANICA IZVORI

https://www.forest-lidarioja.info/ Spatial Data Infrastructures of the Government of La Rioja (IDErioja)

WEB STRANICA PROJEKTA

https://www.forest-lidarioja.info/grupo-operativo/ Application for consulting and extracting data from specific plots of land

REFERENCA PROJEKTA

FEADER









PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood 4.0

DATUM UNOSA

8 ruj 2021







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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



