

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.

SZCZEGÓŁY

POCHODZENIE SUROWCA DRZEWNEGO

Las

POTENCJAŁ DLA MOBILIZACJI DREWNA

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.

RODZAJ SUROWCA DRZEWNEGO

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POTENCJAŁ DLA ZRÓWNOWAŻONEGO ROZWOJU - WARTOŚĆ

Bardzo pozytywny

RODZAJ DREWNA

Wood standing

ŁATWOŚĆ WDROŻENIA

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).

WPŁYW NA ŚRODOWISKO I BIORÓŻNORODNOŚĆ

Difficult to estimate

ŁATWOŚĆ WDROŻENIA - OCENA

Very Easy

EFEKTY EKONOMICZNE

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KLUCZOWE WYMAGANIA

--

POTENCJAŁ W ZAKRESIE KOMERCIALIZACJI

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RODZAJ WYDARZENIA, W KTÓRYM WYSTĄPIŁA DANA BPI

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HUB

Centrum Południowo-Zachodnie

EFEKTY W ZAKRESIE ZATRUDNIENIA

Difficult to specify

WPŁYW NA GOSPODARKĘ

KOSZT IMPLEMENTACJI (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

WYMAGANA WIEDZA SPECJALISTYCZNA

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.

WIĘCEJ INFORMACJI

WYZWANIE	DOMENA	RODZAJ ROZWIAZANIA
2. Poprawa infrastruktury i potencjału instytucji publicznych	Inwentaryzacja, ocena, monitoring zasobów Pozyskanie, infrastruktura, logistyka	Modelowanie, systemy wspomagania decyzji, symulacja, optymalizacja
SŁOWA KLUCZOWE	ROZWIAZANIE CYFROWE	INNOWACJA
Cartografía	Tak	Tak
Inventario forestal continúo		
LiDAR		
KRAJ POCHODZENIA	SKALA APLIKACJI	ROK ROZPOCZĘCIA I ZAKOŃCZENIA
Hiszpania	Regionalny	2018 - 2020

DANE KONTAKTOWE

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ŹRÓDŁA I MATERIAŁY

STRONA INTERNETOWA	ZASOBY
https://www.forest-lidarioja.info/	Spatial Data Infrastructures of the Government of La Rioja (IDErioja)
STRONA INTERNETOWA PROJEKTU	
https://www.forest-lidarioja.info/grupo-operativo/	Application for consulting and extracting data from specific plots of land
PROJEKT	
FEADER	

LOGO DOBREJ PRAKTYKI



LOGO ORGANIZACJI



PROJEKT, W RAMACH KTÓREGO STWORZONA ZOSTAŁA NINIEJSZA FISZKA

Rosewood 4.0

DATA PUBLIKACJI

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



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