

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.

DETAILS

HERKUNFT DES HOLZES

Wald

MOBILISIERUNGSPOTENZIAL

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.

ART DES HOLZES

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POTENZIAL FÜR NACHHALTIGKEIT - WERT

Sehr positiv

ART DES BETROFFENEN HOLZES

Wood standing

LEICHTE IMPLEMENTIERUNG

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).

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITÄT

Difficult to estimate

LEICHTE IMPLEMENTIERUNG - BEWERTUNG

Very Easy

EINKOMMENSEFFEKT

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WICHTIGE VORAUSSETZUNGEN

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VERWERTUNGSPOTENZIAL

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ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE

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NABE

Drehkreuz Süd-West

ARBEITSPLATZEFFEKT

Difficult to specify

WIRTSCHAFTLICHE AUSWIRKUNGEN

KOSTEN DER IMPLEMENTIERUNG (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

SPEZIFISCHES WISSEN ERFORDERLICH

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.

MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG	DOMÄNE	ART DER LÖSUNG
2. Verbesserung der Infrastrukturen und Kapazitäten Bestandsaufnahme, Bewertung, Überwachung der öffentlichen Akteure	Holzernte, Infrastruktur, Logistik	Modellierung, DSS, Simulation, Optimierung
Schlüsselwörter	DIGITALE LÖSUNG	INNOVATION
Cartografía	Ja	Ja
Inventario forestal continuo		
LiDAR		
HERKUNFTSLAND	UMFANG DER ANWENDUNG	ANFANGS- UND ENDJAHR
Spanien	Regional/sub-national	2018 - 2020

KONTAKTDATEN

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REFERENCES AND RESOURCES

HAUPT-WEBSITE

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

PROJEKT-WEBSITE

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

PROJEKT-REFERENZ

FEADER

RESSOURCEN

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

Application for consulting and extracting data from specific plots of land

LOGO DER BEST PRACTICE



LOGO DER HAUPTORGANISATION

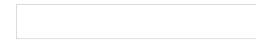


PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood 4.0

BEITRAGSDATUM

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



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