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

OPPRINNELSE FOR TRE Skog TYPE TRE	MOBILISERINGSPOTENSIAL 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.	
	BæREKRAFTPOTENSIAL - VERDI Veldig positivt	
TYPE TRE INVOLVERT Wood standing	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).	
PåVIRKNING På MILJø OG BIOLOGISK MANGFOLD Difficult to estimate	ENKEL IMPLEMENTERING - EVALUERING Very Easy	
INNTEKTSEFFEKT 	VIKTIGE FORUTSETNINGER	
UTNYTTELSESPOTENSIAL 	TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT	
HUB South-West Hub	EFFEKT På ARBEIDSPLASSER Difficult to specify	
ØKONOMISK PåVIRKNING	KOSTNADER MED IMPLEMENTERING (EURO - €)	

High at the scale of forest users, facilitates many processes linked to public243000forest services and lowers inventory costs for both public and private users.

SPESIFIKKE KUNNSKAPSBEHOV

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 INFORMASJON

UTFORDRING ADRESSERT	DOMENE		TYPE LØSNING
2. Forbedre infrastruktur og kapasitet for offentlige	Inventering, vurdering, o	overvåking	Modellering, DSS, simulering, optimalisering
aktører	Avvirkning, infrastruktu	r, logistikk	
NøKKELORD	DIGITAL LØSNING		INNOVASJON
Cartografía	Ja		Ja
Inventario forestal continúo			
Lidar			
OPPRINELSESLAND	POTENSIALE		START OG SLUTT åR
Spania	Regional/deler av lande	t	2018 - 2020
KONTAKT INFORMASJON			
EIER ELLER FORFATTER		RAPPORTØR	
Agresta S. Coop.		CESEFOR	
David García		Ángela García de Arana	
dgarcia@agresta.org	angela.garcia@cesefor.com		
https://agresta.org/			
REFERENCES AND RESOURCES			
HJEMMESIDE (HOVEDSIDE)		RESSURSER	
https://www.forest-lidarioja.info/	Spatial Data Infrastructures of the Government of La Rioja (IDErioja)		
PROSJEKTETS HJEMMESIDE			
https://www.forest-lidarioja.info/grupo-operativo/		Application for consultir	ng and extracting data from specific plots of land
REFERANSE TIL PROSJEKT			
FEADER			

LOGO FOR BESTE PRAKSIS



LOGO FOR HOVEDORGANISASJON



PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER

Rosewood 4.0

INNLEGGSDATO

HTML

8 sep 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



