

Remote sensing based assessment of woody biomass and carbon storage in forests



RemBioFor

R&D project, which aim is to work out the complex method of defining selected forest stand descriptions as well as aboveground biomass and carbon sequestration, based on the use of remote sensing for the purposes of forest management planning.

The aim of the project was to work out the complex method of defining selected forest stand descriptions as well as aboveground biomass and carbon sequestration, based on the use of remote sensing for the purposes of forest management planning.

Among main goals were:

- acquisition and processing of remote sensing, laboratory and field data,
- determining the amount of biomass and carbon in the forest based on radar data,
- development of methods for the inventory of selected stand descriptions, growing stock and biomass with the use of active remote sensing techniques,
- local correction of dendrometric volume equations based on terrestrial laser scanning data (TLS),
- development of the merchantable volume conversion factors into biomass and carbon.

Results of the project allow to: reduce time needed to carry out the work of the forest management, especially inventory of growing stock; obtain higher accuracy of the CO₂ balance, biomass and annual allowable cut calculations; determine growing stock for any forest area; reduce cost of field work in forest management.

DETALII

SURSA DE LEMN

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TIPUL DE LEMN

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TIPUL DE LEMN ÎN CAUZĂ

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IMPACTUL ASUPRA MEDIULUI ȘI BIODIVERSITĂȚII

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EFACT ASUPRA VENITURILOR

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POTENȚIAL DE EXPLOATARE

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HUB

Hub central-est

IMPACT ECONOMIC

--

CUNOȘTINȚE SPECIFICE NECESARE

--

POTENȚIALUL DE MOBILIZARE

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POTENȚIAL DE SUSTENABILITATE - VALOARE

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FACILITATEA DE IMPLEMENTARE

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FACILITATEA DE IMPLEMENTARE - EVALUARE

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CONDIȚII CHEIE PRELABILE

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TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

Vizita de studiu (T2.3)

EFACT ASUPRA LOCURILOR DE MUNCĂ

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COSTURI PENTRU IMPLEMENTARE (EURO - €)

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MAI MULTE DETALII

PROVOCARE ABORDATĂ 1. Îmbunătățirea rezilienței pădurilor și adaptarea la schimbările climatice	DOMAIN Inventariere, evaluare, monitorizare Managementul pădurilor, silvicultura, servicii ecosistemice, reziliență Cercetare și dezvoltare	TIP DE SOLUȚIE Modelare, DSS, simulare, optimizare
CUVINTE CHEIE remote sensing techniques; carbon sequestration; forestry	SOLUȚIE DIGITALĂ Da	INOVAȚIE Da
ȚARA DE ORIGINE Polonia	SCARA DE APLICARE Național	ANUL DE ÎNCEPUT ȘI DE SFÂRȘIT 2015 - 2018

DATE DE CONTACT

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REFERENCES AND RESOURCES

PAGINĂ WEB
<http://rembiofor.pl/en/>

RESURSE
Parkitna K., Krok G., Lisańczuk M., Mitelsztedt K., Ukalski K., Magnussen S., Markiewicz A., Miścicki S., Stereńczak K. 2021. Modelling growing stock volume of forest stands with the use of selected LiDAR Area Based Approaches in various predictive models. Forestry: An International Journal of Forest Research

WEBSITE PROJECT

<http://rembiofor.pl/en/>

REFERINȚĂ PROIECT

Remote sensing based assessment of woody biomass and carbon storage in forests (REMBIOFOR), National Centre for Research and Development within the program „Natural environment, agriculture and forestry” BIOSTRATEG, agreement no. BIOSTRATEG1/267755/4/NCBR/2015

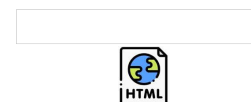


PROIECTUL ÎN CADRUL CĂRUI A FOST CREATă ACEASTă FIȘă INFORMATIVă

Rosewood 4.0

DATA POSTĂRII

12 Aug 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

