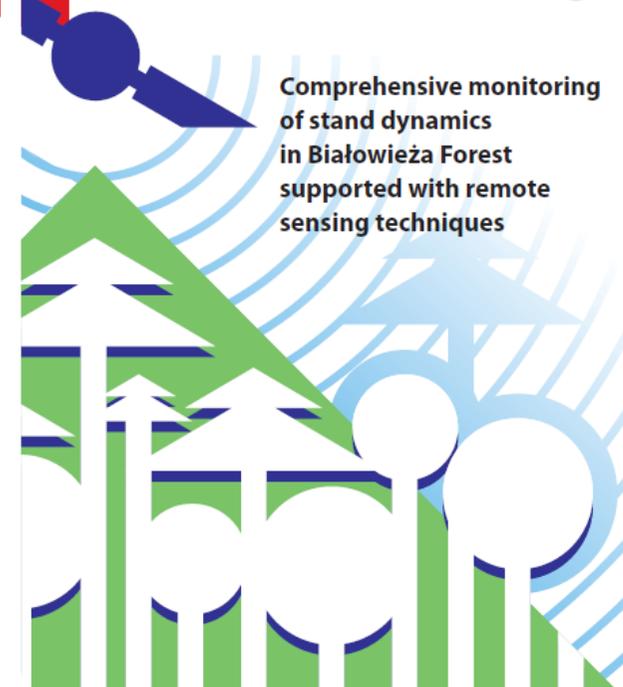


ForBioSensing | Comprehensive monitoring of stand dynamics in Białowieża Forest supported with remote sensing techniques



Comprehensive monitoring method of a large forest area with the use of innovative techniques and data.

Project activities were focused on a comprehensive representation of changes in forest stands and their dynamics (using different time series of remote sensing data) and the transition from spot monitoring (field measurements on sample plots) to large-scale monitoring. This will improve the efficiency of forest ecosystem protection and management measures. Project results have been presented in the form of publications and maps showing specific changes over the years. In addition, radio and television broadcasts, meetings, brochures and promotional films were used to inform the general public.

The main objectives of the project were:

- Monitoring of stand dynamics in Białowieża Forest (including analysis of tree species composition, monitoring of changes in the forest stand caused,

among others, by tree death)

- Analysis of natural forest regeneration and rejuvenation, including the role of gaps,
- Establishment/determination of the combination of different remote sensing techniques and data sets that are optimal for forest monitoring,
- Characteristics of the microclimate of the Białowieża Forest,
- Promotion of Białowieża Forest through the use of multimedia.

The main expected results of the project:

- Detailed analysis and maps showing in subsequent years, following information about the Białowieża Forest: Forest stand characteristics (growing stock and biomass, tree height, DBH, canopy cover and its diversity, forest diversity, tree species composition, vertical structure, biomass, etc.), location and size of dead trees, location and size of gaps, dynamics of natural forest regeneration and amount of lying dead wood.
- Map of plant communities with identification of different tree species;
- Development of monitoring methods for the dynamics of the Białowieża Forest using a small number of sample plots and additional remote sensing data covering the entire study area;
- Master tree ring chronology of the selected tree species in the Białowieża Forest;
- A unique geoportal containing created spatial data on the Białowieża Forest.

PODROBNOSTI

PÔVOD DREVA

--

DRUH DREVA

--

UVAŽOVANÝ DRUH DREVA

--

VPLYV NA ŽIVOTNÉ PROSTREDIE A BIODIVERZITU

--

DOPAD NA PRÍJMY

--

POTENCIÁL VYUŽITIA

--

ROZBOČOVAČ

Stredovýchodný uzol

EKONOMICKÝ VPLYV

--

POTREBA ŠPECIFICKÝCH ZNALOSTÍ

--

MOBILIZAČNÝ POTENCIÁL

--

POTENCIÁL UDRŽATEĽNOSTI - HODNOTA

--

UĽAHČENIE IMPLMENTÁCIE

--

UĽAHČENIE IMPLMENTÁCIE - HODNOTENIE

--

Kľúčové PREPOKLADY

--

TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANÝ

--

DOPAD NA ZAMESTNANOSŤ

--

NÁKLADY NA IMPLEMENTÁCIU (EURO - €)

--

VIAC INFORMÁCIÍ

RIEŠENÁ VÝZVA

1. Zlepšenie odolnosti lesov a adaptácie na zmenu klímy

Kľúčové SLOVÁ

stand dynamics monitoring; forestry; remote sensing; biodiversity

KRAJINA PôVODU

Poľsko

DOMAIN

Inventarizácia, posudzovanie, monitoring/monitorovanie

DIGITALNE RIEŠENIE

áno

ROZSAH APLIKÁCIE

Národný

TYP RIEŠENIA

Dátové platformy, dátové rozbočovače, verejne prístupné dáta

INOVÁCIE

Áno

ZAČIATOK A KONIEC ROKA

2014 - 2022

KONTAKTNÉ ÚDAJE

VLASTNÍK ALEBO AUTOR

Instytut Badawczy Leśnictwa

Krzysztof Stereńczak

K.Sterenczak@ibles.waw.pl

<https://www.ibles.pl/en/web/guest/home>

REPORTÉR

Łukasiewicz Research Network - Wood Technology Institute

Dobrochna Augustyniak-Wysocka

dobrochna.augustyniak@itd.lukasiewicz.gov.pl

REFERENCES AND RESOURCES

HLAVNÁ WEBSTRÁNKA

<http://www.forbiosensing.pl/home>

ZDROJE

Stereńczak K., Mielcarek M., Modzelewska A., Kraszawski B., Fassnacht F.E., Hilszczański J. 2019. Intra-annual *Ips typographus* outbreak monitoring using a multi-temporal GIS analysis based on hyperspectral and ALS data in the Białowieża Forests. *Forest Ecology and Management*, 442: 105–116.

PROJEKTOVÁ WEBSTRÁNKA

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REFERENCIA PROJEKTU

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LOGO NAJLPEŠEJ PRAXE



LOGO HLAVNEJ ORGANIZÁCIE



PROJEKT, V RÁMCI KTORÉHO BOL TENTO INFORMAČNÝ PREHĽAD VYTVORENÝ

Rosewood 4.0

DÁTUM ODOSLANIA

21 dec 2021



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

