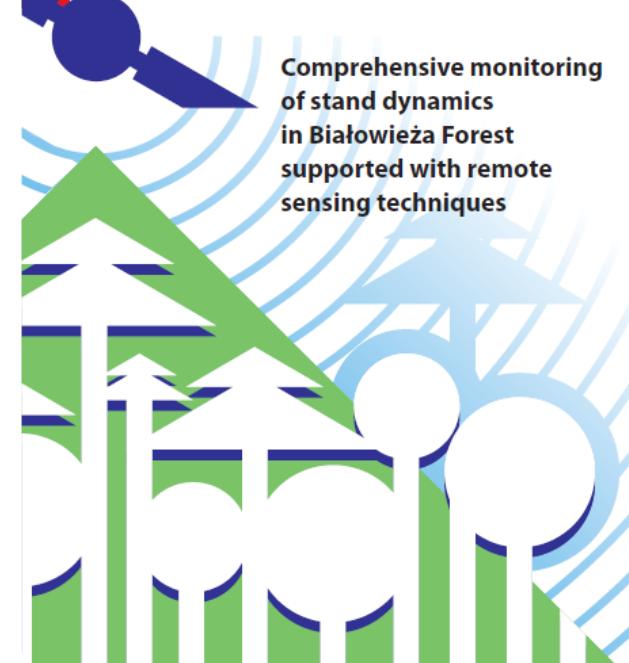


# ForBioSensing | Comprehensive monitoring of stand dynamics in Białowieża Forest supported with remote sensing techniques



*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

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IZVOR LEŠA

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TIP LEŠA

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VRSTA OBRAVNAVANEGA LEŠA

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VPLIV NA OKOLJE IN BIODIVERZITETO

--

VPLIV NA PRIHODKE

--

POTENCIJAL IZKORIŠČANJA

--

VOZLISČE

Srednje-vzhodno vozlišče

GOSPODARSKI VPLIV

--

POTREBNO SPECIFIČNO ZNANJE

--

POTENCIJAL ZA MOBILIZACIJO

--

TRAJNOST - VREDNOST

--

ENOSTAVNOST IZVEDBE

--

ENOSTAVNOST IZVEDBE - OCENJEVANJE

--

KLJUČNI PREDPOGOJI

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VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

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VPLIV NA DELOVNA MESTA

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STROŠKI IZVEDBE (EURO - €)

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IZZIV	DOMENA	TIP REŠITVE
1. Izboljšava odpornosti gozdov in prilagoditev na klimatske spremembe	Inventura, ocena, monitoring	Podatkovna platforma, vozlišča podatkov, odprti podatki
<b>KLJUČNE BESEDE</b>  stand dynamics monitoring; forestry; remote sensing; biodiversity	<b>DIGITALNE REŠITVE</b>  Da	<b>INOVACIJA</b>  Da
<b>IZVORNA DRŽAVA</b>  Polska	<b>OBSEG UPORABE</b>  Nacionalni	<b>ZAČETNO IN KONČNO LETO</b>  2014 - 2022

KONTAKTN  
PODATKI

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LASTNIK OZ. AVTOR

**Instytut Badawczy Leśnictwa**

Krzysztof Stereńczak

K.Stereńczak@ibles.waw.pl

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

POROČEVALEC

**Łukasiewicz Research Network - Wood Technology Institute**

Dobrochna Augustyniak-Wysocka

[dobrochna.augustyniak@itd.lukasiewicz.gov.pl](mailto:dobrochna.augustyniak@itd.lukasiewicz.gov.pl)

REFERENCES  
AND RESOURCES

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SPLETNA STRAN

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

VIRI

**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.

SPLETNA STRAN PROJEKTA

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REFERENCA PROJEKTA

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LOGOTIP DOBRE PRAKSE

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LOGOTIP GLAVNE  
ORGANIZACIJE

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PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood 4.0

DATUM OBJAVE

21 Dec 2021



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862681



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

