Earth observation based service supporting local administration in non-state forest management



SAT4EST

An R&D project aimed at developing a simple, intuitive and cost-effective web-based service to support forest management supervision, integrating remote sensing satellite data with data acquired from other sources.

The system consists of four components:

- remote sensing data - quick access to current and historical data, enabling the user to compare satellite images from different periods;
- complementary data - cadastral data and detailed forest inventory data from management plans (FMP);
- remote sensing data products - geometric layers resulting from the processing of satellite images, showing the condition and health status of vegetation and forests;
- geospatial analyses - juxtaposition of remote sensing data products with cadastral data and detailed forest inventory data, enabling to identify inconsistencies between the actual state of the forest and the state recorded in databases, as well as recent changes.

The entire solution is based on an intuitive map portal for users, which is used to generate various types of maps, including maps of forests and tree cover, forest changes, maps of forest types, maps of forest condition, maps of crown density, maps of aboveground forest biomass and the extent of stand damage due to windstorms, fires, floods and insect infestations. Users of the system have access to current and archival satellite images, and they can compare

different types of maps with complementary data as well as upload their own data sets.

DETALII

SURSA DE LEMN

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TIPUL DE LEMN

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TIPUL DE LEMN îN CAUZă

--

IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII

--

EFECT ASUPRA VENITURILOR

--

POTENțIAL DE EXPLOATARE

--

HUB

Hub central-est

IMPACT ECONOMIC

--

CUNOșTINțE SPECIFICE NECESARE

--

POTENțIALUL DE MOBILIZARE

--

POTENțIAL DE SUSTENABILITATE - VALOARE

--

FACILITATEA DE IMPLEMENTARE

--

FACILITATEA DE IMPLEMENTARE - EVALUARE

--

CONDIțII CHEIE PREALABILE

--

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

--

EFECT ASUPRA LOCURILOR DE MUNCă

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COSTURI PENTRU IMPLEMENTARE (EURO - €)

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MAI MULTE DETALII

PROVOCARE ABORDATă

2. Îmbunătățirea infrastructurilor și a capacității actorilor publici

DOMAIN

Inventariere, evaluare, monitorizare

Managementul pădurilor, silvicultura, servicii ecosistemice, reziliență

TIP DE SOLUțIE

Instrumente de consiliere și servicii pentru proprietarii de păduri

CUVINTE CHEIE

forest management plan; monitoring; web app

SOLUțIE DIGITALă

Da

INOVAțIE

Da

ȚARA DE ORIGINE

Polonia

SCARA DE APLICARE

Regional/ sub-național

ANUL DE îNCEPUT șI DE SFâRșIT

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DATE DE CONTACT

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REFERENCES AND RESOURCES

PAGINă WEB

http://www.sat4est.pl/

WEBSITE PROJECT

http://www.sat4est.pl/

REFERINță PROIECT

Earth observation based service supporting local administration in non-state forest management (SAT4EST), funded by European Space Agency (ESA) through the Polish Incentive Scheme Programme

RESURSE

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SAT4EST

PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood 4.0

DATA POSTăRII

12 Aug 2021

ROSEWOOD 4.0 Sustainable Wood for Europe

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

cesefor
Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León