

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.

DETAILS

HERKUNFT DES HOLZES

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ART DES HOLZES

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ART DES BETROFFENEN HOLZES

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AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITÄT

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EINKOMMENSEFFEKT

--

VERWERTUNGSPOTENZIAL

--

NABE

Drehscheibe Mitte-Ost

WIRTSCHAFTLICHE AUSWIRKUNGEN

--

SPEZIFISCHES WISSEN ERFORDERLICH

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MOBILISIERUNGSPOTENZIAL

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POTENZIAL FÜR NACHHALTIGKEIT - WERT

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LEICHTE IMPLEMENTIERUNG

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LEICHTE IMPLEMENTIERUNG - BEWERTUNG

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WICHTIGE VORAUSSETZUNGEN

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ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE

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ARBEITSPLATZEFFEKT

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KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG	DOMÄNE	ART DER LÖSUNG
2. Verbesserung der Infrastrukturen und Kapazitäten der öffentlichen Akteure	Bestandsaufnahme, Bewertung, Überwachung Waldmanagement, Waldbau, Ökosystemleistungen, Resilienz	Beratungs- und Servicetools für Waldbesitzer
SCHLÜSSELWÖRTER	DIGITALE LÖSUNG	INNOVATION
forest management plan; monitoring; web app	Ja	Ja
HERKUNFTSLAND	UMFANG DER ANWENDUNG	ANFANGS- UND ENDJAHR
Polen	Regional/sub-national	--

KONTAKTDATEN

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REFERENCES AND RESOURCES

HAUPT-WEBSITE

<http://www.sat4est.pl/>

PROJEKT-WEBSITE

<http://www.sat4est.pl/>

PROJEKT-REFERENZ

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

RESSOURCEN

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LOGO DER BEST PRACTICE

LOGO DER
HAUPTORGANISATION



PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood 4.0

BEITRAGSDATUM

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

