

# 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.

## DETALJER

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### VEDENS URSPRUNG

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### TRÄTYP

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### TYP AV TRÄ

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### PÅVERKAN PÅ MILJÖ & BIOLOGISK MÅNGFALD

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### EKONOMISK EFFEKT

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### KOMMERSIELL POTENTIAL

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### NAV

Centrala och östra navet

### EKONOMISK PÅVERKAN

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### SPECIFIKA KUNSKAPSBEHOV

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### MOBILISERINGSPOTENTIAL

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### HÅLLBARHETS POTENTIAL - VÄRDE

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### ENKEL IMPLEMENTERING

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### ENKEL IMPLEMENTERING - UTVÄRDERING

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### NYCKEL FÖRUTSÄTTNINGAR

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### TYP AV EVENEMANG DÄR DENNA BPI HAR PRESENTERATS

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### EFFEKT ANTAL ANSTÄLLDA

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### KOSTNADER FÖR IMPLEMENTERING (EURO - €)

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## MER INFORMATION

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### UTMANING SOM ADRESSERAS

2. Förbättra infrastruktur och kapacitet hos offentliga aktörer

### NYCKELORD

forest management plan; monitoring; web app

### UPPHOVSLAND

Polen

### DOMÄN

Inventering, värdering, övervakning  
Skogsförvaltning, skogskjötsel, ekosystemtjänster

### DIGITAL LÖSNING

Ja

### POTENTIAL

Regional/landsdel

### TYPE AV LÖSNING

Rådgivning og serviceverktyg för skogsägare

### INNOVASION

Ja

### START OCH SLUTÅR

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## KONTAKT INFORMASION

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### ÄGARE ELLER FÖRFATTARE

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### RAPPORTÖR

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## REFERENCES AND RESOURCES

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### HEMSIDA (HUVUDSIDA)

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

### PROJEKTETS HEMSIDA

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

### PROJEKTFERENS

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

### RESURSER

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PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FÖR INLÄGG

12 aug 2021



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

