

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



**ROSEWOOD**  
**4.0** Sustainable Wood  
for Europe

## 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.

## DETALHES

---

ORIGEM DA MADEIRA

--

TIPO DE MADEIRA

--

TIPO DE MADEIRA EM CAUSA

--

IMPACTE NO AMBIENTE E BIODIVERSIDADE

--

IMPACTE NAS RECEITAS

--

POTENCIAL DE EXPLORAçãO

--

HUB

Centro-Oriente Hub

IMPACTE ECONOMICO

--

CONHECIMENTOS ESPECÍFICOS NECESSÁRIOS

--

POTENCIAL DE MOBILIZAçãO

--

SUSTENTABILIDADE POTENCIAL - VALOR

--

FACILIDADE DE IMPLEMENTAçãO

--

FACILIDADE DE IMPLEMENTAçãO

--

PRE-REQUISITOS CHAVE

--

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

--

IMPACTE NO EMPREGO

--

CUSTOS DE IMPLEMENTAçãO (EURO - EUR)

--

## MAIS DETALHES

---

DESAFIO ABORDADO	DOMÍNIO	TIPO DE SOLUçãO
2. Melhorar as infra-estruturas e a capacidade dos actores públicos	Inventário, avaliação e monitorização Gestão florestal, silvicultura, serviços do ecossistema, proprietários florestais resiliencia	Ferramentas de consultoria e prestação de serviços a proprietários florestais
PALAVRAS-CHAVE	SOLUçãO DIGITAL	INOVAçãO
forest management plan; monitoring; web app	Sim	Sim
PAÍS DE ORIGEM	ESCALA DE APLICAçãO	ANO DE INÍCIO E FIM
Polónia	Regional/ sub-nacional	--

## DADOS DE CONTACTO

---

### PROPRIETÁRIO OU AUTOR

Taxus IT Sp. z o.o.

Sylwester Kulik

sylwester.kulik@taxusit.pl

[www.taxusit.pl/english](http://www.taxusit.pl/english)

### REPÓRTER

Łukasiewicz Research Network - Wood Technology Institute (ITD)

Dobrochna Augustyniak-Wysocka

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

## REFERENCES AND RESOURCES

---

### WEBSITE PRINCIPAL

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

### WEBSITE DO PROJETO

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

### REFERêNCIA AO PROJETO

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

### RECURSOS

--

LOGOTIPO DA BOA PRÁTICA

---



SAT4EST

LOGOTIPO DA ORGANIZAÇÃO PRINCIPAL

---

PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

12 Ago 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



□