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.

PODROBNOSTI

IZVOR LESA

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TIP LESA

--

VRSTA OBRAVNAVANEGA LESA

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VPLIV NA OKOLJE IN BIODIVERZITETO

--

VPLIV NA PRIHODKE

--

POTENCIAL IZKORIŠČANJA

--

VOZLIŠČE

Srednje-vzhodno vozlišče

GOSPODARSKI VPLIV

--

POTREBNO SPECIFIČNO ZNANJE

--

POTENCIAL ZA MOBILIZACIJO

--

TRAJNOST - VREDNOST

--

ENOSTAVNOST IZVEDBE

--

ENOSTAVNOST IZVEDBE - OCENJEVANJE

--

KLJUČNI PREDPOGOJI

--

VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

--

VPLIV NA DELOVNA MESTA

--

STROŠKI IZVEDBE (EURO - €)

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VEČ PODROBNOSTI

IZZIV

2. Izboljšava infrastrukture in kapacitet deležnikov

DOMENA

Inventura, ocena, monitoring

Gojenje gozdov, gospodarjenje z gozdovi, odpornost, ekosistemske storitve

TIP REŠITVE

Svetovanje in storitve za lastnike gozdov

KLJUČNE BESEDE

forest management plan; monitoring; web app

DIGITALNE REŠITVE

Da

INOVACIJA

Da

IZVORNA DRŽAVA

Polska

OBSEG UPORABE

Regionalni

ZAČETNO IN KONČNO LETO

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KONTAKTN PODATKI

LASTNIK OZ. AVTOR

Taxus IT Sp. z o.o.

Sylwester Kulik

sylwester.kulik@taxusit.pl

www.taxusit.pl/english

POROČEVALEC

Łukasiewicz Research Network - Wood Technology Institute (ITD)

Dobrochna Augustyniak-Wysocka

dobrochna.augustyniak@itd.lukasiewicz.gov.pl

REFERENCES AND RESOURCES

SPLETNA STRAN

http://www.sat4est.pl/

SPLETNA STRAN PROJEKTA

http://www.sat4est.pl/

REFERENCA PROJEKTA

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

VIRI

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LOGOTIP DOBRE PRAKSE

LOGOTIP GLAVNE ORGANIZACIJE

SAT4EST

PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood 4.0

DATUM OBJAVE

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY