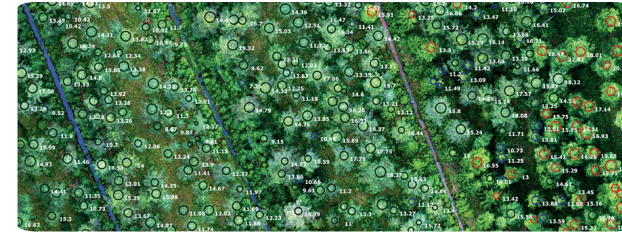


Drones in Forestry Planning



Metsä Group photographed in 2018 with drone about 3 500 hectares of forest in southern and western Finland and utilized the data as basis for forest plans for forest owners. According to experience, the method has been developed and now the drone forest plans are being sold as an alternative to traditional forest plans. The forest plan based on information described by Drone or copter with camera challenges the traditional forest planning. The method is used in particular to get more accurate tree information.

The drone plan will be of interest to the forest owners who want to be in the front and develop new developments with forest industry. For example, in a virtual forest, the data measured in the drone will create a precise tree map, where the trees are in the right places and the tree species are correct. In virtual reality, it will better reflect the fluctuations of the wood inside the forest compartment than the traditional forest plan information. The drone design and virtual forests form an interesting pair in the future by producing new experiences for forest owners.

The measurements will provide both the amount of trees in cubic meters and the value of the wood in euros more accurately than before. With drone surveys we also get information about the amount of dead wood – it helps to preserve the important structure of forest for diversity.

The method is capable of identifying tree three species: pine, spruce and birch. The remaining deciduous tree species are logged into the category of other deciduous trees. Based on the measurement data, treatment recommendations are calculated. This drone-made plan differs from the traditional, where human being makes the treatment recommendations.

The forest plan produced by drone is particularly suitable for updating the forest plan that is about to expire. It is also suitable for forest owners, who are particularly interested in the amount and value of the timber.

The forest plan of the drone also benefits from a faster delivery of traditional forest plan. Delivery time is few months, which is only half of the delivery times of traditional forest plan.

DETALJI

PODRIJETLO DRVA

Šuma

VRSTA DRVA

Deblo

ODGOVARAJUĆA VRSTA DRVA

Stemwood, energy wood

UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST

Positive

UČINAK NA PRIHOD

Positive

POTENCIJAL ISKORISTIVOSTI

--

SREDIŠTE

Sjeverno središte

GOSPODARSKI UČINAK

Positive

POTREBNA POSEBNA ZNANJA

IT skills, knowledge of forest planning processes

POTENCIJAL ZA POVEĆANJE UPORABE DRVA

Medium

POTENCIJAL ODRŽIVOSTI - VRIJEDNOST

--

JEDNOSTAVNOST PROVEDBE

Easy, requires IT skills

JEDNOSTAVNOST PROVEDBE - EVALUACIJA

--

KLJUČNI PREDUVJETI

IT skills needed, co-operation needed between IT companies and forest companies

VRSTA DOGAĐAJA NA KOJEM JE PRIKAZAN OVAJ BPI

--

UČINAK NA ZAPOSŁJIVOST

Positive

TROŠKOVI PROVEDBE (EURO - €)

--

VIŠE DETALJA

IZAZOV

5. Unaprjeđenje učinkovitosti lanca opskrbe šumom na gospodarstvo i okoliš

KLJUČNE RIJEČI

--

ZEMLJA PODRIJETLA

Finska

DOMENA

Upravljanje šumama, uzgoj šuma, usluge ekosustava, otpornost

DIGITALNO RJEŠENJE

Ne

PODRUČJE PRIMJENE

Nacionalna

VRSTA RJEŠENJA

Savjetodavni i uslužni alati za vlasnike šuma

INOVACIJA

Da

POČETAK I KRAJ GODINE

2017 -

KONTAKT PODATCI

VLASNIK ILI AUTOR

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IZVJESTITELJ

REFERENCES AND RESOURCES

GLAVNA WEB STRANICA

<https://www.metsaforest.com/fi/Yritys/Tiedotteet/Pages/Tiedote.aspx>

WEB STRANICA PROJEKTA

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REFERENCA PROJEKTA

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IZVORI

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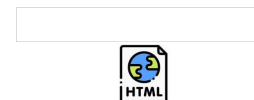


PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN
Rosewood

DATUM UNOSA
17 ruj 2019



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862681



A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

