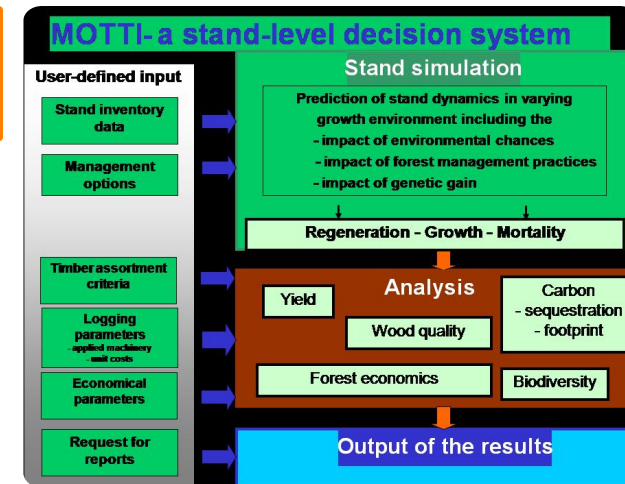


MOTTI software



MOTTI is a stand-level analysis tool and decision support software by Luke. It contains the key results of the growth and yield research carried out by Luke, which can be used to predict the growth of forests managed using different techniques. The software also enables making comparisons between different silvicultural methods. MOTTI can also be used to investigate the effects of forest management or non-management, selection of tree species, regeneration chains or individual silvicultural measures, for example, on forest growth, harvesting volumes, profitability of forestry or the amount of carbon sequestered by forests.

MOTTI is widely used among professional foresters, forest owners, teachers, researchers, authorities and companies in Finland. It has been updated regularly with the newest growth models. It has also been tailored for special purposes, e.g. for teaching and for calculating economic effects of forest protection. It has been published in several languages (Finnish, Swedish, English, Russian) and it has also been piloted in other countries and tree species.

The core of MOTTI is a stand-level simulator, which includes growth and yield models for e.g. natural regeneration, growth and mortality. It is designed to simulate stand development under alternative management regimes and growth conditions in Finland.

MOTTI predicts the development of the user-defined initial stand until the end of the rotation. The user can define various management schedules including management practices, such as precommercial and commercial thinnings, fertilization, and ditch network maintenance in peatland forests. The user can adjust parameters such as timing and intensity of thinning and proportions of tree species, and define the timing of final cut. Timber assortments include logs, pulpwood and energy wood compartments. If the user do not define management practices, MOTTI simulates a default management program for the stand based on the current recommendations for forestry practice in Finland.

For the economic analysis (net present value and bare land value), the user can enter stumpage prices by tree species and timber assortments, costs (e.g. costs of first commercial thinnings, fertilisation and ditch network maintenance) and interest rate. The results will be presented in the form tables, graphs and

files exportable to Excel.

PODROBNOSTI

IZVOR LESA

Gozd

TIP LESA

Okrogli les

POTENCIAL ZA MOBILIZACIJO

Not possible to assess.

TRAJNOST - VREDNOST

--

VRSTA OBRAVNAVANEGA LESA

Stemwood; Above and below ground woody biomass (ex. shrubs, wood for fibres, wood for energy)

ENOSTAVNOST IZVEDBE

Easy

VPLIV NA OKOLJE IN BIODIVERZITETO

Positive, versions of software for carbon sequestration and economical impacts of protected forests are available

ENOSTAVNOST IZVEDBE - OCENJEVANJE

--

VPLIV NA PRIHODKE

Not possible to assess.

KLJUČNI PREDPOGOJI

Application loadable on Luke web pages (Windows 7):

<http://www.metla.fi/metinfo/motti/asennus.htm> (Finnish version)

<http://www.metla.fi/metinfo/motti/index-en.htm> (English version)

New versions will be published in 2019 (Windows 10).

POTENCIAL IZKORIŠČANJA

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VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

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VOZLIŠČE

Severno vozlišče

VPLIV NA DELOVNA MESTA

Positive, helps in planning of forest operations

GOSPODARSKI VPLIV

STROŠKI IZVEDBE (EURO - €)

Positive, helps in planning of forest operations

--

POTREBNO SPECIFIČNO ZNANJE

Normal IT skills

VEČ PODROBNOSTI

IZZIV

5. Izboljšanje gospodarske in ekološke učinkovitosti gozdne oskrbovalne verige

DOMENA

Gojenje gozdov, gospodarjenje z gozdovi, ekosistemske storitve

TIP REŠITVE

Razvoj programske opreme

KLJUČNE BESEDE

--

DIGITALNE REŠITVE

Da

INOVACIJA

Ne

IZVORNA DRŽAVA

Finska

OBSEG UPORABE

Čezmejni / Transnacionalni

ZAČETNO IN KONČNO LETO

2005 -

KONTAKTN PODATKI

LASTNIK OZ. AVTOR

Natural Resources Institute Finland (Luke)

POROČEVALEC

hannu.salminen@luke.fi

<https://www.luke.fi/en/>

REFERENCES AND RESOURCES

SPLETNA STRAN

<https://www.luke.fi/en/natural-resources/forest/silviculture/motti-software-enables-the-comparison-of-different-techniques/>

VIRI

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SPLETNA STRAN PROJEKTA

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REFERENCA PROJEKTA

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PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

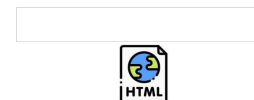
Rosewood

DATUM OBJAVE

17 Sep 2019



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2020 research and innovation programme under grant agreement No.
862681



A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

