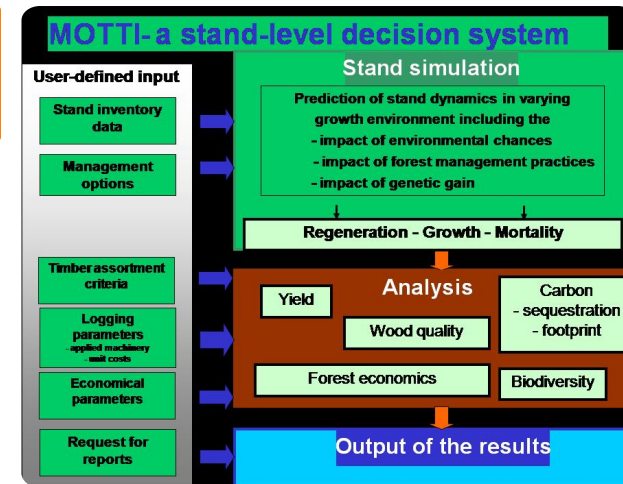


MOTTI software



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.

DETALJER

OPPRINNELSE FOR TRE

Skog

TYPE TRE

Tre fra rundtvirke

MOBILISERINGSPOTENSIAL

Not possible to assess.

BæREKRAFTPOTENSIAL - VERDI

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TYPE TRE INVOLVERT

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

ENKEL IMPLEMENTERING

Easy

PåVIRKNING På MILJØ OG BIOLOGISK MANGFOLD

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

ENKEL IMPLEMENTERING - EVALUERING

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INNETEKTSEFFEKT

Not possible to assess.

VIKTIGE FORUTSETNINGER

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).

UTNYTTELSESPOTENSIAL

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TYPE BEGIVENHET DER DENNE BPI HAR BLITT OMTALT

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HUB

Northern Hub

EFFEKT På ARBEIDSPLASSE

Positive, helps in planning of forest operations

ØKONOMISK PåVIRKNING

KOSTNADER MED IMPLEMENTERING (EURO - €)

Positive, helps in planning of forest operations

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SPESIFIKKE KUNNSKAPSBEHOV

Normal IT skills

MER INFORMASJON

UTFORDRING ADRESSERT

5. Forbedre den økonomiske og miljømessige ytelsen i skogbrukets forsynings kjede

NØKKEWORD

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OPPRINELSESLAND

Finland

DOMENE

Skogforvaltning, skogskjøtsel, økosystemtjenester

DIGITAL LØSNING

Ja

POTENSIALE

Grenseoverskridende/transnasjonal

TYPE LØSNING

Mjukvare for design

INNOVASJON

Nei

START OG SLUTT ÅR

2005 -

KONTAKT INFORMASJON

EIER ELLER FORFATTER

Natural Resources Institute Finland (Luke)

RAPPORTØR

hannu.salminen@luke.fi

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

REFERENCES AND RESOURCES

HJEMMESIDE (HOVEDSIDE)

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

PROSJEKTETS HJEMMESIDE

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REFERANSE TIL PROSJEKT

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RESSURSER

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LOGO FOR BESTE
PRAKSIS

LOGO FOR HOVEDORGANISASJON

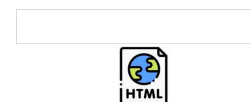


PROSJEKT SOM DETTE FAKTAARKET ER OPPRETTET UNDER
Rosewood

INNLEGGSDATO
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

