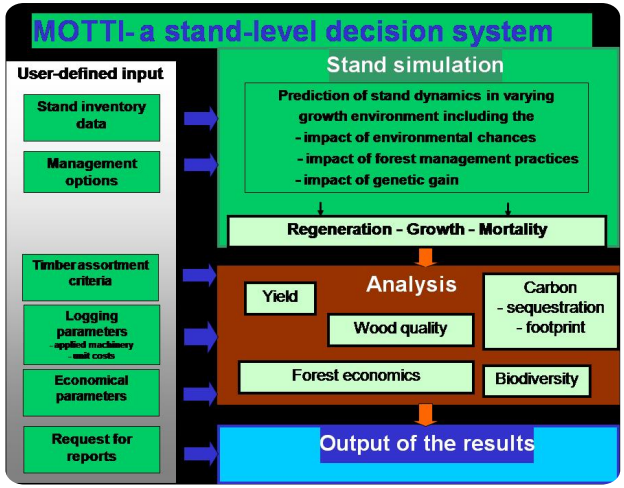
MOTTI software



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.

SZCZEGóŁY

POCHODZENIE SUROWCA DRZEWNEGO

Las

RODZAJ SUROWCA DRZEWNEGO

Drewno okrągłe

RODZAJ DREWNA

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

WPŁYW NA śRODOWISKO I BIORóżNORODNOść

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

EFEKTY EKONOMICZNE

Not possible to assess.

POTENCJAł W ZAKRESIE KOMERCJALIZACJI

--

HUB

Hub Północny

WPŁYW NA GOSPODARKę

POTENCJAł DLA MOBILIZACJI DREWNA

Not possible to assess.

POTENCJAł DLA ZRóWNOWAżONEGO ROZWOJU - WARTOść

--

ŁATWOść WDROżENIA

Easy

ŁATWOść WDROżENIA - OCENA

--

KLUCZOWE WYMAGANIA

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).

RODZAJ WYDARZENIA, W KTóRYM WYSTąPIłA DANA BPI

--

EFEKTY W ZAKRESIE ZATRUDNIENIA

Positive, helps in planning of forest operations

KOSZT IMPLEMENTACJI (EURO - €)

Positive, helps in planning of forest operations	--

WYMAGANA WIEDZA SPECJALISTYCZNA

Normal IT skills

WIęCEJ INFORMACJI

WYZWANIE

5. Wzmocnienie ekonomicznego i środowiskowego funkcjonowania leśnych łańcuchów dostaw

DOMENA

Zarządzanie lasem, gospodarka leśna, usługi ekosystemowe, odporność

RODZAJ ROZWIąZANIA

Oprogramowanie projektowe

SŁOWA KLUCZOWE

--

ROZWIąZANIE CYFROWE

Tak

INNOWACJA

Nie

KRAJ POCHODZENIA

Finlandia

SKALA APLIKACJI

Ponadnarodowy

ROK ROZPOCZęCIA I ZAKOńCZENIA

2005 -

DANE KONTAKTOWE

WłAśCICIEL LUB TWóRCA

Natural Resources Institute Finland (Luke)

hannu.salminen@luke.fi

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

OSOBA PRZYGOTOWUJąCA FISZKę

ŹRóDłA I MATERIAłY

STRONA INTERNETOWA

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

ZASOBY

--

STRONA INTERNETOWA PROJEKTU

--

PROJEKT

--

LOGO DOBREJ PRAKTYKI

LOGO ORGANIZACJI

Luke
NATURAL RESOURCES INSTITUTE FINLAND

PROJEKT, W RAMACH KTóREGO STWORZONA ZOSTAłA NINIEJSZA FISZKA

Rosewood

DATA PUBLIKACJI

17 wrz 2019

ROSEWOOD 4.0 Sustainable Wood for Europe

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

cesefor
Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León