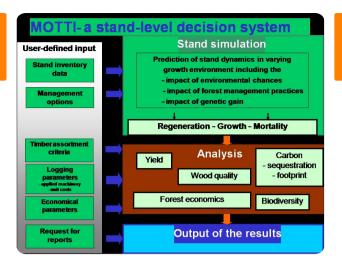
# MOTTI software



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.

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**PODROBNOSTI** IZVOR LESA POTENCIAL ZA MOBILIZACIJO Gozd Not possible to assess. TIP LESA Okrogli les TRAJNOST - VREDNOST VRSTA OBRAVNAVANEGA LESA **ENOSTAVNOST IZVEDBE** Stemwood; Above and below ground woody biomass (ex. shrubs, wood for Easy fibres, wood for energy) VPLIV NA OKOLJE IN BIODIVERZITETO **ENOSTAVNOST IZVEDBE - OCENJEVANJE** Positive, versions of software for carbon sequestrion and economical impacts of protected forests are available VPLIV NA PRIHODKE KLJUČNI PREDPOGOJI Not possible to assess. 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 VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI

VOZLIŠČE VPLIV NA DELOVNA MESTA

Severno vozlišče 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	DOMENA	TIP REŠITVE
5. Izboljšanje gospodarske in ekološke učinkovitosti	Gojenje gozdov, gospodarjenje z gozdovi, odpornost,	, Razvoj programske opreme
gozdne oskrbovalne verige	ekosistemske storitve	
KLJUČNE BESEDE	DIGITALNE REŠITVE	INOVACIJA
	Da	Ne
IZVORNA DRŽAVA	OBSEG UPORABE	ZAČETNO IN KONČNO LETO
Finska	Čezmejni / Transnacionalni	2005 -
KONTAKTN PODATKI		
LASTNIK OZ. AVTOR	POROČEVALEC	
Natural Resources Institute Finland (Luke)	POROCEVALEC	
Natural Resources institute Filliand (Luke)		
hannu.salminen@luke.fi		
https://www.luke.fi/en/		
REFERENCES		
AND REGOGRACES		
SPLETNA STRAN	VIRI	
https://www.luke.fi/en/natural-resources/forest/silv	riculture/motti-software	
enables-the-comparison-of-different-techniques/		
SPLETNA STRAN PROJEKTA		
REFERENCA PROJEKTA		



#### PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood

#### DATUM OBJAVE

17 Sep 2019







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## A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY





