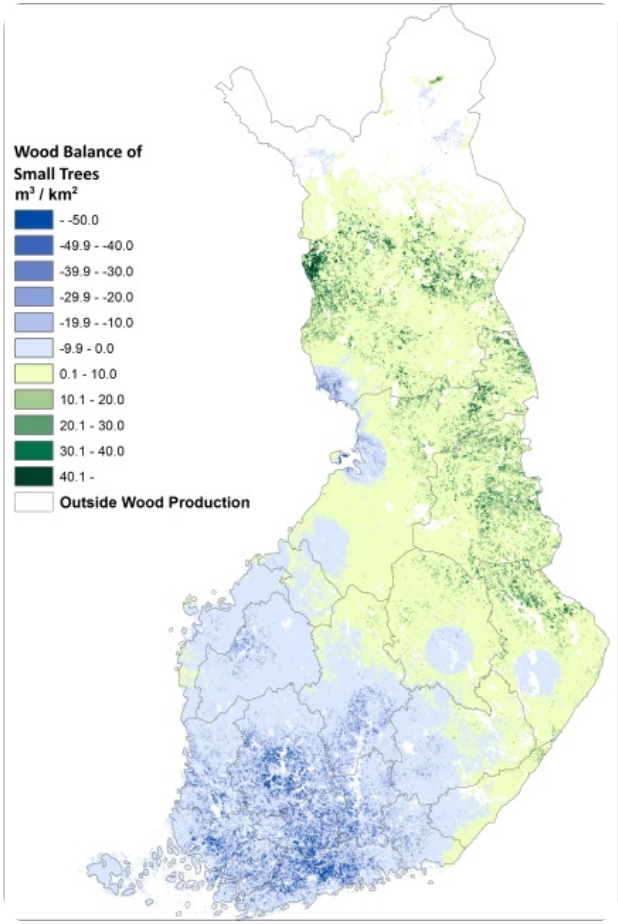
Assessment method for energy wood biomass feedstock availability and transport costs at regional level



Spatially explicit GIS-method and a collection of tools to assess the energy wood biomass availability and transport costs at regional level to any given end-use location. In the process the technical harvesting biomass potential, local competing demand and the wood resource balance are assessed. The transport costs from the grid of supply points can be viewed as a function of transport distance. Also, different future growth and demand scenarios can be included into calculations thus providing a valuable decision support to investors of energy wood industry.

Most customer projects differ from every other project in some respect. Calculation methods need more or less adjustment.

Results from the analysis: 1. Numerical (GIS) maps of biomass potential for any given timber assortment, biomass demand and wood resource balance (e.g. balance of small trees, see picture above).

2. Graphs depicting transport costs as a function of distance. 3. Spreadsheets of the result data used for graphs. 4. Summary report of the results for the customers.

For more information, see the reference.

PODROBNOSTI

IZVOR LESA
Gozd

TIP LESA
Okrogli les

VRSTA OBRAVNAVANEGA LESA
Above and below ground woody biomass (ex. shrubs, wood for fibres, wood for energy), Stemwood, Industry

VPLIV NA OKOLJE IN BIODIVERZITETO
Medium (see above)

VPLIV NA PRIHODKE
Not possible to assess.

POTENCIAL IZKORIŠČANJA
--

VOZLIŠČE
Severno vozlišče

GOSPODARSKI VPLIV
Positive, helps the customers to plan their business in a more detailed way

POTREBNO SPECIFIČNO ZNANJE
Comprehensive database, coding

POTENCIAL ZA MOBILIZACIJO
Not possible to assess.

TRAJNOST - VREDNOST
--

ENOSTAVNOST IZVEDBE
Easy (the assessment is done by research experts, customers only need to define the basic requirements and calculation area)

ENOSTAVNOST IZVEDBE - OCENJEVANJE
--

KLJUČNI PREDPOGOJI
Available on request for the customers in Finland only at the moment.

VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI
--

VPLIV NA DELOVNA MESTA
Positive, helps the customers to plan their business in a more detailed way

STROŠKI IZVEDBE (EURO - €)
--

VEČ PODROBNOSTI

IZZIV	DOMENA	TIP REŠITVE
5. Izboljšanje gospodarske in ekološke učinkovitosti gozdne oskrbovalne verige	Gojenje gozdov, gospodarjenje z gozdovi, odpornost, ekosistemske storitve Sečnja in spravilo, infrastruktura, logistika	Modeliranje, DSS, simulacija, optimizacija
KLJUČNE BESEDE	**DIGITALNE REŠITVE**	**INOVACIJA**
--	Da	Da
IZVORNA DRŽAVA	**OBSEG UPORABE**	**ZAČETNO IN KONČNO LETO**
Finska	Nacionalni	2016 -

KONTAKTN PODATKI

LASTNIK OZ. AVTOR

Natural Resources Institute Finland (Luke)

Perttu Anttila

perttu.anttila@luke.fi

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

POROČEVALEC

Natural Resources Institute Finland (Luke)

Vesa Nivala

vesa.nivala@luke.fi

REFERENCES AND RESOURCES

SPLETNA STRAN

https://efi.int/sites/default/files/files/events/2018/innovation_workshop-Nivala.pdf

VIRI

--

SPLETNA STRAN PROJEKTA

--

REFERENCA PROJEKTA

--

LOGOTIP DOBRE PRAKSE

LOGOTIP GLAVNE ORGANIZACIJE

Luke
NATURAL RESOURCES INSTITUTE FINLAND

PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood

DATUM OBJAVE

27 Sep 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

HTML

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

EFI