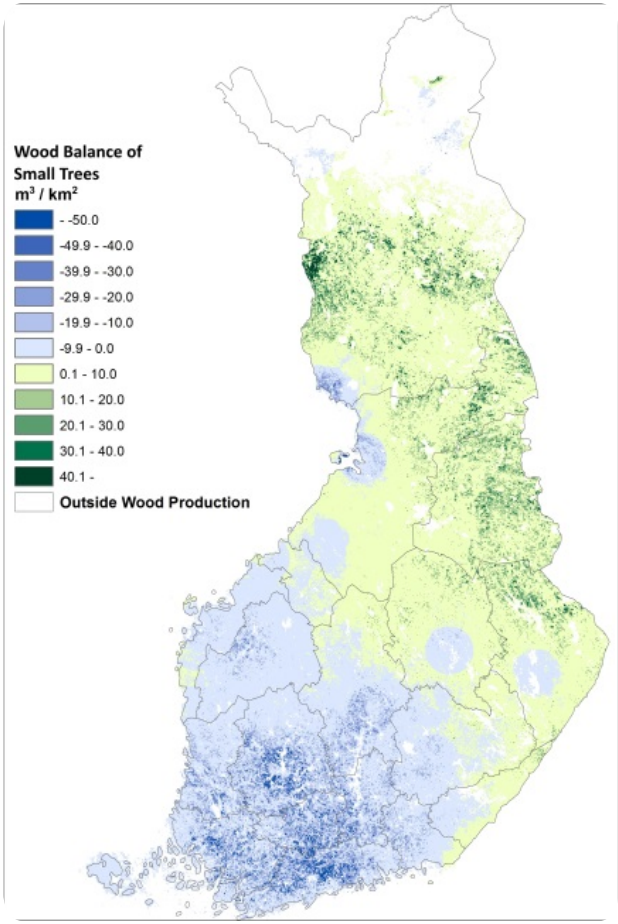
Assessment method for energy wood biomass feedstock availability and transport costs at regional level



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.

DETTAGLI

ORIGINE DEL LEGNO
foresta

TIPO DI LEGNO
Fusto

TIPO DI LEGNO IN QUESTIONE
Above and below ground woody biomass (ex. shrubs, wood for fibres, wood for energy), Stemwood, Industry

IMPATTO SULL'AMBIENTE E LA BIODIVERSITà
Medium (see above)

EFFETTO SUL REDDITO
Not possible to assess.

POTENZIALE DI SFRUTTAMENTO
--

HUB
Polo Nord

IMPATTO ECONOMICO
Positive, helps the customers to plan their business in a more detailed way

CONOSCENZE SPECIFICHE NECESSARIE
Comprehensive database, coding

POTENZIALE DI MOBILITAZIONE
Not possible to assess.

POTENZIALE SOSTENIBILITà - VALORE
--

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

FACILITà DI IMPLEMENTAZIONE - VALUTAZIONE
--

PREREQUISITI CHIAVE
Available on request for the customers in Finland only at the moment.

TIPO DI EVENTO IN CUI QUESTO BPI è STATO PRESENTATO
--

EFFETTO SUL LAVORO
Positive, helps the customers to plan their business in a more detailed way

I COSTI DI ATTUAZIONE (EURO - €)
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Più DETTAGLI

SFIDA RISOLTA

5. Migliorare le prestazioni economiche e ambientali delle filiere forestali

DOMINIO

La gestione forestale, selvicoltura, i servizi ecosistemici, resilienza

La raccolta, le infrastrutture, la logistica

TIPO DI SOLUZIONE

Modellazione, DSS, la simulazione, l'ottimizzazione

PAROLE CHIAVE

--

SOLUZIONE DIGITALE

Sì

INNOVAZIONE

Sì

PAESE D'ORIGINE

Finlandia

SCALA DI APPLICAZIONE

Nazionale

INIZIO E FINE ANNO

2016 -

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REFERENCES AND RESOURCES

SITO PRINCIPALE

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

RISORSE

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SITO WEB DEL PROGETTO

--

PROGETTO DI RIFERIMENTO

--

LOGO DELLE MIGLIORI PRATICHE

LOGO DELLA PRINCIPALE ORGANIZZAZIONE

Luke
NATURAL RESOURCES INSTITUTE FINLAND

PROGETTO NELL'AMBITO DEL QUALE QUESTA SCHEDA è STATA CREATA

Rosewood

DATA DI INSERIMENTO

27 Set 2019

ROSEWOOD 4.0 Sustainable Wood for Europe

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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