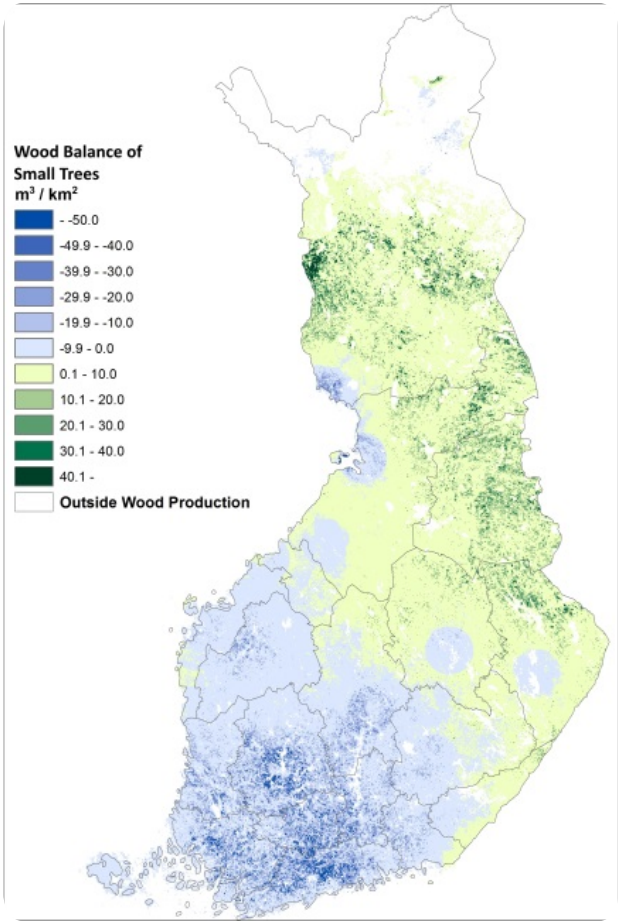
Assessment method for energy wood biomass feedstock availability and transport costs at regional level



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.

DETALHES

ORIGEM DA MADEIRA

Floresta

TIPO DE MADEIRA

Tronco

TIPO DE MADEIRA EM CAUSA

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

IMPACTE NO AMBIENTE E BIODIVERSIDADE

Medium (see above)

IMPACTE NAS RECEITAS

Not possible to assess.

POTENCIAL DE EXPLORAçãO

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HUB

Pólo Norte

IMPACTE ECONOMICO

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

CONHECIMENTOS ESPECIFICOS NECESSáRIOS

Comprehensive database, coding

POTENCIAL DE MOBILIZAçãO

Not possible to assess.

SUSTENTABILIDADE POTENCIAL - VALOR

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FACILIDADE DE IMPLEMENTAçãO

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

FACILIDADE DE IMPLEMENTAçãO

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PRE-REQUISITOS CHAVE

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

TIPO DE EVENTO EM QUE ESTE BPI TEM SIDO APRESENTADO

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IMPACTE NO EMPREGO

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

CUSTOS DE IMPLEMENTAçãO (EURO - EUR)

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MAIS DETALHES

DESAFIO ABORDADO

5. Melhorar o desempenho económico e ambiental das cadeias de abastecimento florestal

DOMíNIO

Gestão florestal, silvicultura, serviços do ecosistema, resiliencia

Cortes, infraestruturas e logistica

TIPO DE SOLUçãO

Modelação, sistemas de apoio à decisão, simulaçã, optimização

PALAVRAS-CHAVE

--

SOLUçãO DIGITAL

Sim

INOVAçãO

Sim

PAíS DE ORIGEM

Finlândia

ESCALA DE APLICAçãO

Nacional

ANO DE INíCIO E FIM

2016 -

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REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

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

RECURSOS

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WEBSITE DO PROJETO

--

REFERêNCIA AO PROJETO

--

LOGOTIPO DA BOA PRáTICA

LOGOTIPO DA ORGANIZAçãO PRINCIPAL

Luke
NATURAL RESOURCES INSTITUTE FINLAND

PROJETO NO âMBITO DO QUAL A FOLHA DE DIVULGAçãO FOI CRIADA

Rosewood

DATA DE ENTRADA

27 Set 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