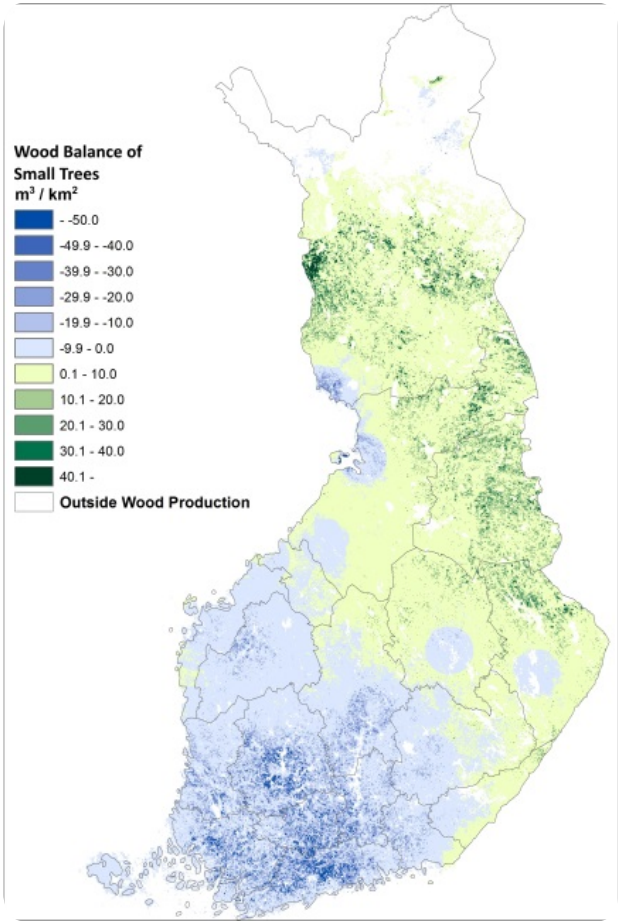
Assessment method for energy wood biomass feedstock availability and transport costs at regional level



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.

DETALLES

ORIGEN DE LA MADERA

Bosque

TIPO DE MADERA

Madera en rollo

TIPO DE MADERA AFECTADA

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

IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD

Medium (see above)

EFECTO SOBRE LOS INGRESOS

Not possible to assess.

POTENCIAL DE EXPLOTACIóN

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HUB

Eje Norte

IMPACTO ECONóMICO

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

CONOCIMIENTOS ESPECíFICOS NECESARIOS

Comprehensive database, coding

POTENCIAL DE MOVILIZACIóN

Not possible to assess.

POTENCIAL DE SOSTENIBILIDAD - VALOR

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FACILIDAD DE APLICACIóN

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

FACILIDAD DE IMPLEMENTACIóN - EVALUACIóN

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PREREQUISITOS CLAVE

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

TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS

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EFECTO SOBRE EL EMPLEO

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

COSTES DE IMPLEMENTACIóN (EURO - €)

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MáS DETALLES

RETO ABORDADO

5. Mejorar el rendimiento económico y medioambiental de las cadenas de suministro forestal

DOMINIO

Gestión forestal, silvicultura, servicios ecosistémicos, resiliencia

Aprovechamiento, infraestructura, logística

TIPO DE SOLUCIóN

Modelización, DSS, simulación, optimización

PALABRAS CLAVE

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SOLUCIóN DIGITAL

Sí

INNOVACIóN

Si

PAíS DE ORIGEN

Finlandia

ESCALA DE APLICACIóN

Nacional

AñO DE INICIO Y FIN

2016 -

DATOS DE CONTACTO

PROPIETARIO O AUTOR

Natural Resources Institute Finland (Luke)

Perttu Anttila

perttu.anttila@luke.fi

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

REPORTADOR

Natural Resources Institute Finland (Luke)

Vesa Nivala

vesa.nivala@luke.fi

REFERENCES AND RESOURCES

SITIO WEB PRINCIPAL

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

RECURSOS

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SITIO WEB DEL PROYECTO

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REFERENCIA DEL PROYECTO

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LOGO DE LA BUENA PRáCTICA

LOGOTIPO DE LA ORGANIZACIóN PRINCIPAL

Luke
NATURAL RESOURCES INSTITUTE FINLAND

PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood

FECHA DE MENSAJE

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

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