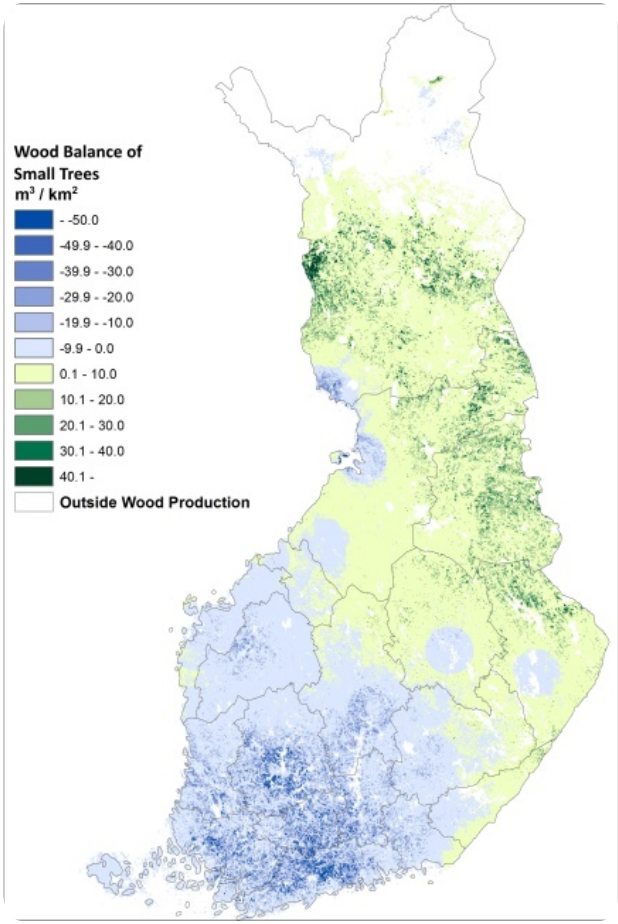
Assessment method for energy wood biomass feedstock availability and transport costs at regional level



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.

DETAILS

HERKUNFT DES HOLZES

Wald

ART DES HOLZES

Stammholz

ART DES BETROFFENEN HOLZES

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

AUSWIRKUNGEN AUF UMWELT UND BIODIVERSITäT

Medium (see above)

EINKOMMENSEFFEKT

Not possible to assess.

VERWERTUNGSPOTENZIAL

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NABE

Nördliches Drehkreuz

WIRTSCHAFTLICHE AUSWIRKUNGEN

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

SPEZIFISCHES WISSEN ERFORDERLICH

Comprehensive database, coding

MOBILISIERUNGSPOTENZIAL

Not possible to assess.

POTENZIAL FüR NACHHALTIGKEIT - WERT

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LEICHTE IMPLEMENTIERUNG

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

LEICHTE IMPLEMENTIERUNG - BEWERTUNG

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WICHTIGE VORAUSSETZUNGEN

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

ART DER VERANSTALTUNG, AUF DER DIESE BPI VORGESTELLT WURDE

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ARBEITSPLATZEFFEKT

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

KOSTEN DER IMPLEMENTIERUNG (EURO - €)

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MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

5. Verbesserung der wirtschaftlichen und ökologischen Leistung der forstwirtschaftlichen Forstlieferketten

DOMäNE

Waldmanagement, Waldbau, Ökosystemleistungen, Resilienz

Holzernte, Infrastruktur, Logistik

ART DER LöSUNG

Modellierung, DSS, Simulation, Optimierung

SCHLüSSELWöRTER

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DIGITALE LöSUNG

Ja

INNOVATION

Ja

HERKUNFTSLAND

Finnland

UMFANG DER ANWENDUNG

National

ANFANGS- UND ENDJAHR

2016 -

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REFERENCES AND RESOURCES

HAUPT-WEBSITE

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

PROJEKT-WEBSITE

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PROJEKT-REFERENZ

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RESSOURCEN

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LOGO DER BEST PRACTICE

LOGO DER HAUPTORGANISATION

Luke
NATURAL RESOURCES
INSTITUTE FINLAND

PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood

BEITRAGSDATUM

27 Sep 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

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