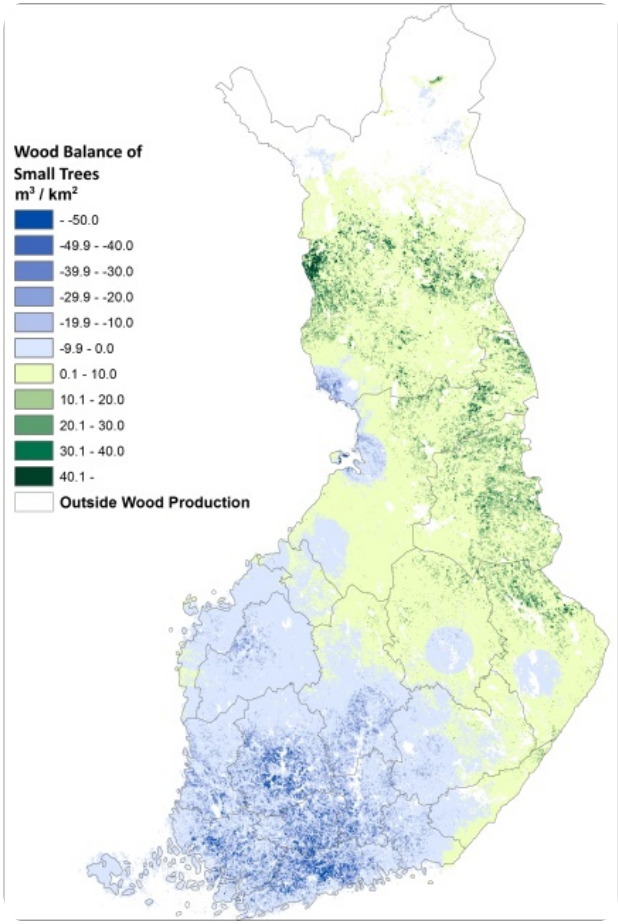
# Assessment method for energy wood biomass feedstock availability and transport costs at regional level




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.

## DETALJER

### VEDENS URSPRUNG

Skog

### TRäTYP

Rundvirke

### TYP AV TRä

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

### PåVERKAN På MILJö & BIOLOGISK MåNGFALD

Medium (see above)

### EKONOMISK EFFEKT

Not possible to assess.

### KOMMERSIELL POTENTIAL

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### NAV

Norra navet

### EKONOMISK PåVERKAN

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

### SPECIFIKA KUNSKAPSBEHOV

Comprehensive database, coding

### MOBILISERINGSPOTENTIAL

Not possible to assess.

### HåLLBARHETS POTENTIAL - VäRDE

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### ENKEL IMPLEMENTERING

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

### ENKEL IMPLEMENTERING - UTVäRDERING

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### NYCKEL FöRUTSäTTNINGAR

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

### TYP AV EVENEMANG DäR DENNA BPI HAR PRESENTERATS

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### EFFEKT ANTAL ANSTäLLDA

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

### KOSTNADER FöR IMPLEMENTERING (EURO - €)

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## MER INFORMATION

UTMANING SOM ADRESSERAS

5. Förbättra ekonomisk och miljömässig prestanda för skogsförsörjningskedjor

DOMäN

Skogsförvaltning, skogskjötsel, ekosystemtjänster

Avverkning, infrastruktur, logistik

TYPE AV LöSNING

Modellering, DSS, simulering, optimering

NYCKELORD

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DIGITAL LöSNING

Ja

INNOVASION

Ja

UPPHOVSLAND

Finland

POTENTIAL

Nationell

START OCH SLUTåR

2016 -

## KONTAKT INFORMASION


ÄGARE ELLER FöRFATTARE

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RAPPORTöR

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Vesa Nivala

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## REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

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

PROJEKTETS HEMSIDA

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PROJEKTREFERENS

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RESURSER

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## LOGO FöR BEST PRACTICE

## LOGO, HUVUDORGANISATION

Luke
NATURAL RESOURCES INSTITUTE FINLAND

### PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood

### DATUM FöR INLäGG

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

EFI