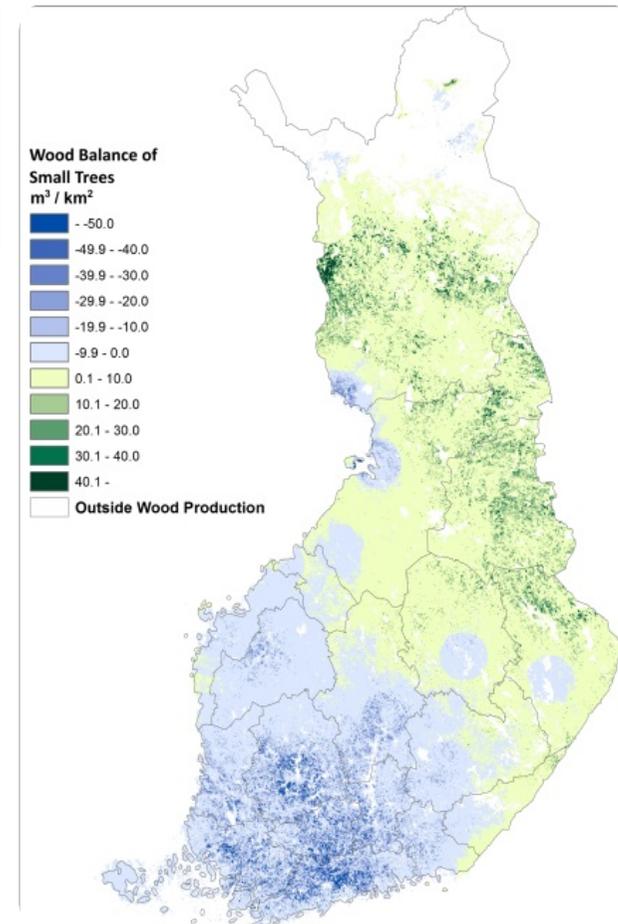


## Assessment method for energy wood biomass feedstock availability and transport costs at regional level



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

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### 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

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|   |   |  |
|---|---|--|
| <b>DESAFIO ABORDADO</b>   | <b>DOMÍNIO</b>  | <b>TIPO DE SOLUÇÃO</b>   |
| 5. Melhorar o desempenho económico e ambiental das cadeias de abastecimento florestal | Gestão florestal, silvicultura, serviços do ecossistema, resiliencia<br>Cortes, infraestruturas e logistica | Modelação, sistemas de apoio à decisão, simulação, optimização |
| <b>PALAVRAS-CHAVE</b>   | <b>SOLUÇÃO DIGITAL</b>  | <b>INOVAÇÃO</b>  |
| --  | Sim   | Sim  |
| <b>PAÍS DE ORIGEM</b>   | <b>ESCALA DE APLICAÇÃO</b>  | <b>ANO DE INÍCIO E FIM</b>                                     |
| Finlândia   | Nacional  | 2016 -   |

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## REFERENCES AND RESOURCES

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### WEBSITE PRINCIPAL

[https://efi.int/sites/default/files/files/events/2018/innovation\\_workshop-Nivala.pdf](https://efi.int/sites/default/files/files/events/2018/innovation_workshop-Nivala.pdf)

### RECURSOS

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### WEBSITE DO PROJETO

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### REFERÊNCIA AO PROJETO

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PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood

DATA DE ENTRADA

27 Set 2019

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862681

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

