SMALLWOOD

Small diameter wood utilization with innovative stand management for multifunctional forests and a growing sustainable bio-economy

Tomas Nordfjell, SLU, Swedish University of Agricultural Sciences

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Overall objective:
To develop and evaluate **new technologies and new business and operational models** that can support a sustainable management and utilization of different types of small diameter wood.
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The hypothesis are that Small Diameter Stand (SDS) management and the studied techniques have an interesting innovation potential in terms of economy, social acceptance, sustainability, SME business opportunities and rural development especially if identified bottlenecks are solved.
In the long-term, our aims are to:

1. improve the techniques and work methods up to the level where a profitable business can be built on SDS management and utilization,
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2. develop strategies for SDS management that is sustainable, with a positive environmental profile, and long-term added values for a number of actors in the society.
The project focuses on four stand types

1) Conventional thinning stands with small diameter trees;
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1) Conventional thinning stands with small diameter trees;
2) Traditional coppice stands;
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1) Conventional thinning stands with small diameter trees;
2) Traditional coppice stands;
3) Areas for forest fire prevention with small trees or bushes;
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1) Conventional thinning stands with small diameter trees;
2) Traditional coppice stands;
3) Areas for forest fire prevention with small trees or bushes;
4) Linear cleaning areas like roadsides, power line corridors and strips just outside agricultural farm land.
Two types of technologies will be studied and further developed.

1) Multi-tree harvesting technique combined with the working method “Boom corridor Thinning”
Two types of technologies will be studied and further developed

1) Multi-tree harvesting technique combined with the working method “Boom corridor Thinning”
2) Combined harvesting and chipping technique
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<th>Partner</th>
<th>Country</th>
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<th>Contact person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swedish University of Agricultural Sciences (SLU)</td>
<td>Sweden</td>
<td>Vinnova/Formas/SWEA</td>
<td>Prof.dr. Tomas Nordfjell</td>
</tr>
<tr>
<td>Universidad Politécnica de Madrid (UPM)</td>
<td>Spain</td>
<td>ES/MINECO-AEI</td>
<td>Prof.dr. Eduardo Tolosana</td>
</tr>
<tr>
<td>Slovenian Forest Institute (SFI)</td>
<td>Slovenia</td>
<td>SI/MIZS</td>
<td>Dr. Nike Krajnc</td>
</tr>
<tr>
<td>University of eastern Finland, School of Forest Sciences (UEF)</td>
<td>Finland</td>
<td>FI/MMM and FI/AKA</td>
<td>Prof.dr Teppo Hujala</td>
</tr>
<tr>
<td>Faculty of Economics and Business, University of Maribor (FEB)</td>
<td>Slovenia</td>
<td>SI/MIZS</td>
<td>Prof.dr. Zdenka Ženko</td>
</tr>
<tr>
<td>Bracke Forest</td>
<td>Sweden</td>
<td>Vinnova/Formas/SWEA</td>
<td>CEO Klas-Håkan Ljungberg</td>
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## SMALLWOOD Project WPs

### WP1 Project management and monitoring

- **SDS1 Conv. thinning stands**
- **SDS2 Coppice stands**
- **SDS3 Fire prev. bush areas**
- **SDS4 Linear areas**

### WP2 Harvesting- and supply systems for innovative and sustainable management of multifunctional SDS
Functionality, productivity, possible logistic systems, future development of treated stands, economic system analysis, applicability within different management systems.

### WP3 Socio economic aspects of the SDS stand managements
Private forest owner motivation, acceptance from the public opinion, business opportunities and rural development.

### WP4 Environmental assessment of the SDS managements
Tree damages, soil damages like rutting and soil compaction, material and energy consumption and emissions to air, water and soil.

### WP5 Overall analyses of the economic, social and environmental values of the SDS managements
Analyses that include results from traditional economic system analysis (WP2), socio economic analyses (WP3) and LCA analyses (WP4) into multi criteria decision analyses.

### WP6 Communication and project transnational outreach
**Project ID card**

**Countries involved:** Sweden and Finland from north + Spain and Slovenia from South

**Duration:** from 2019 till 2022

**Total budget:** 1,225,000 €

**Thematic research area:** Innovative sustainable management of multifunctional forests

**Overall objective:** to develop and evaluate new technologies, business and operational models that can support a sustainable management and utilization of different types of small diameter wood.

**Target groups:** forest owners, forest contractors, Forest practitioners, general public
THANKS

Tomas.nordfjell@slu.se