



Report for joint NKJ-SNS networks

Submit the report before June 18 2018 to sns@slu.se and hansson.nkj@slu.se
The report should not exceed 1000 words (including words in the template).

1. Network title:	Sustainable production of biomass – a sectorial perspective (BIOSECT)		
2. Network no:			

3. Network coordinator:	Dimitris Athanassiadis/Ljuska Ola Eriksson		
Address:	Swedish University of Agricultural Sciences		
Email:	dimitris.athanassiadis@slu.se		

4. Place for the activity:	Nordic countries		
5. Duration of the activity	Start:	1/9/2015	End: 15/6/2018

6. List the published outputs (peer-reviewed articles, other publications):
<p>Kallio, M., Chudy, R. & Solberg, B. 2017. Prospects for producing liquid wood-based biofuels and their impacts on the forest sector in Europe. Presented at IUFRO 125th Anniversary Congress, 18 – 22 September 2017, Freiburg, Germany</p> <p>Eriksson, L. O. & Sängstuvall, L., 2017. Bioenergy from young dense stands - a long term sector analysis for Sweden. Presented at IUFRO 125th Anniversary Congress, 18 – 22 September 2017, Freiburg, Germany</p> <p>Ouraich, I., Lundmark, R., & Forsell, N., 2017. Price Impact Analysis of Increased Biofuel Production on Forest Feedstock Markets: A Spatial Explicit Approach for Sweden. Presented at IUFRO 125th Anniversary Congress, 18 – 22 September 2017, Freiburg, Germany</p> <p>Sängstuvall, L. & Eriksson, L.O. 2018. Analyzing bioenergy from young dense stands using a forest sector model – optimal forest management and Swedish wood market consequence (manuscript; to be included in PhD thesis of Lars Sängstuvall)</p> <p>Eriksson, L.O. & Sängstuvall, L. 2018. Sensitivity of a forest sector model to various assumptions on forest owner behavior and timber quality (manuscript; to be included in PhD thesis of Lars Sängstuvall)</p> <p>Eriksson, L.O. & Sängstuvall, L. 2017. Bioenergy from young dense stands - a long term sector analysis for Sweden. ORAL PRESENTATION at the IUFRO 125th Anniversary Congress, Freiburg, Germany, 18-22 September 2017.</p>

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7. Other practical outputs (e.g. websites, policy recommendations, conferences, large-scale project applications etc.)

The website of the network can be found here: <https://www.slu.se/en/departments/forest-biomaterials-technology/research/ongoing-projects/sustainable-production-of-biomass--a-sectorial-perspective/>

The network participated with side events in 3 major conferences: 1) The Biennial meeting of the Scandinavian Society of Forest Economics – SSFE 2016, May 25th-27th 2016, in Norway, 2) IUFRO 125th Anniversary Congress, 18 – 22 September 2017, Freiburg, Germany and 3) The Biennial Meeting of the Scandinavian Society of Forest Economics in Helsingør/Helsingør, Denmark, 22–25 May 2018. An internal meeting was held in Copenhagen at the Institute of Geoscience and Natural Resource Management in October 27 2016.

A project application was delivered to F3 (www.f3centre.se). The application had the title: Forest management practices for increased production of advanced biofuels while maintaining high level of Environmental Quality Objectives". The proposal was unfortunately not funded

A proposal to Formas special call with deadline 26th April 2018: "Models for analysis of the Swedish forest sector related to climate change". Outcome still unknown.

8. Specify the conclusions of the network (maximum 500 characters) for possible use in SNS News and Views

The network has given valuable insights into the wealth of methods and systems among the Nordic researchers regarding forest sector models (FSMs). Several examples were presented that showed the suitability of FSMs to study forest management, biomass availability, industry production as well as of the forest products market and how they interact. One conclusion was that different models have different strengths that could be combined to create more comprehensive FSMs. The need to integrate comprehensive models of the agricultural sector (such as SASM) into partial equilibrium models and/or spatially explicit energy system models (e.g. BeWhere Sweden) in order to identify locations for biomass based biorefineries was identified as a near-time development.

9. Specify how the network has been beneficial in a Nordic setting:

The network brought together researchers from the Nordic countries on forest sector modelling, and laid a basis for future research cooperation and common research applications. In the network meetings the participants had the opportunity to discuss 1) how to use the most appropriate models for each particular analyses, 2) identify gaps and weaknesses in the models and 3) inform each other on ongoing activities within the field.

10. Download, fill in and return the 'policy brief' template, which will be used for spreading information about the network and its findings in a popular scientific manner.

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11. Participants in the network activities

Actual no. of participants	DK	FI	IS	NO	SE	Other * countries	Total	Women	Men
Young researchers / PhD students	1	2			3		6		
Senior researchers	2	3		2	3		10		
Stakeholders					1		1		
Communicators									
Total	3	5		2	6		16		

* Specify other countries

12. List the participating sectors:

Universities and research institutes, forest company

13. Economy

Specify currency:	SEK
Received grant from SNS & NKJ:	180000

14. Costs (rounded to closest thousand)

	Self-financed	SNS - NKJ grant	Total	% of self-financing
Travel and hotel	0	68 000	68 000	0%
Meeting costs	0	11000	11 000	0%
Communication	0	0	0	-
Consumables	0	0	0	-
Salary	208 000	101 000	309 000	67%
(Other costs (specify below))	0	0	0	-
Total SUM	208000	180 000	388000	54%

15. Economic result (deficit or surplus):

0

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Comments to the economic reporting:

Salary costs that is paid by SNS is total 101 000 SEK and is for 24 hours administration work by Ola Eriksson and 114 hours for Dimitris Athanassiadis for work with administration, homepage construction and final report writing. Furthermore has Ola Eriksson worked 24 hours that is self-financed by participating in meetings and preparing presentations. Dimitris has worked about 46 hours that is self-financed by organizing and participating in meetings and preparing presentations. The rest of participants, from Sweden, Denmark, Finland and Norway, have contributed with self-financed working time, approximately 175 hours.

I hereby declare that the above statements are true to the best of my knowledge

Main applicant signature, place and date



.....Dimitris.....Athanassiadis.....Researcher.....

Department of Forest Biomaterials and Technology, SLU

Umeå 2018-06-14

Signature of head of research institution



..... Michael.....Finell.....Researcher, head of the Department.....

Department of Forest Biomaterials and Technology, SLU

Umeå 2018-06-14