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Plan for training, workshops and seminars

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Table of contents

1. EFFORTE project objectives	4
2. Plan for education, seminars and workshops	4
Introduction.....	4
Sweden	4
Finland	6
France	7
Scotland.....	7

1. EFFORTE project objectives

The EFFORTE project is built on the idea that forests and forestry provide a great potential to meet challenges of tomorrow by providing the Bio-based industry with efficiently processed raw material resulting in low carbon footprint.

To realize this and systematically replace fossil fuels and other non-renewable raw materials it is of great importance to find novel technologies and methods to improve and guarantee sustainability within the forestry.

The project is built on three different areas of development

- Trafficability (Better knowledge on soil properties, in particular soil mechanics)
- Efficiency in sustainable forest management and silviculture (development and utilization of novel technology, planning- and decision tools)
- Precision forestry (in mapping, characterizing, planning and operations by using information from different sources such as terrain maps and models, harvester data models for predicting detailed yield and operational cost and additional information from earlier silvicultural and harvesting operations)

2. Plan for training, workshops and seminars

Introduction

Communication and dissemination based on research results from the project activities in combination with previous research is the key to reach applications of knowledge based of novel techniques and methods. It is also of great importance to reach different groups and stakeholders connected to forestry with new knowledge and information. Examples of different groups and actors are

- Forest owners
- Forest Companies
- Entrepreneurs and machine operators
- Society (schools, politicians, NGO's, press etc.)
- National and international researchers

This will be done by offering education and training courses, seminars and workshops (both indoors and as excursions in field). The plan for education and information activities within EFFORTE is presented in tables below, one for each country.

Sweden

Table 1. Education and information activities in Sweden

Activity	Description	Responsibility	Target groups	When
Training courses	A one day training course with the main content -Forestry and its Influence on soil and water -New techniques and methods to reduce risks and minimize damages	Skogforsk	Entrepreneurs and machine operators Employees at forest companies	10-20 occasions each year 2017-2019

	-Introducing planning aids and decision tools to increase efficiency and sustainability within forestry			
Advisory group meetings	General overview, discussion, follow up and advisory activities. One group for Forest primary production	Skogforsk	Decision makers in practical forestry and industry companies and forest owners associations	2 occasions per year 2017-2019
Target group meetings. Forestry planning, Wood utilization	Reference groups for Planning, Wood utilization, Technology, Transports, Machine entrepreneurs, Silviculture entrepreneurs	Skogforsk	Experts, decision makers and leading entrepreneur representatives in practical Swedish forestry, often including representation from neighboring Nordic countries (Forestry/Industry/ Forest owners/ Service providers/ Entrepreneurs	2 occasions per year and target group 2017-2019
Seminars	Seminars with different presentations connected to the EFFORTE project	Skogforsk	Researchers Employees at forest companies Politicians Governments	2-3 occasions each year 2017-2019
Demonstrations	Field demonstration and discussion forum - influence on soil and water - new technique - precision forestry	Skogforsk	Private forest owners	5-10 occasions each year 2017-2019
Exhibitions	Participation on ELMIA Wood 2017 Seminars Field demonstration Poster presentation	Skogforsk	Private forest owners Machine manufactures Entrepreneurs and operators Employees at forest companies	7-10 June 2017
Workshops	Discussion forum indoors or in the field How to increase sustainability within the forestry?	Skogforsk	Researchers Politicians Governments	3 excursions 3 indoor activities within different target groups
Workshops	Preliminary project results and approach	Skogforsk	Managers of forest planning in forest companies	May 2017
Conference participation	Presentation of different subtasks on international forestry conferences	Skogforsk	International forest researchers	IUFRO conference in Freiburg autumn 2017
Conferences	Presentation of preliminary results in WP 3	Skogforsk	Forestry planners	RIU-conference (national) November 2017

Finland

Table 2. Education and information actions in Finland

Activity	Description	Responsibility	Target groups	When
Training course	Three day training course of soft soil loggings; soil behavior, novel Big data sources and solutions for improved operations in soft soils	Luke	Logging contractors, forest machine operators, other practitioners in forestry	May 2017
Conference presentations	Industrial Scale Bioeconomy and its Requirements. Two days indoors + one day outdoors seminar	Metsäteho	Scientific community and practice	NOFOBE and NB-NORD meeting in Lappeenranta June 2017
EFFORTE/MEOLO – project research seminar	Presentation of different subtasks within EFFORTE and MEOLO project	Luke	Researchers	September 2017
Field trip	New tools for big data utilization in wood supply	Metsäteho	R&D specialists at forest companies	September 2017
EFFORTE midterm seminar 2	One day indoors + one day outdoors seminar	Luke	Machine manufactures Entrepreneurs and operators Employees at forest companies	November 2018
Workshops	Precision forestry – seminar + field demonstrations	Luke	Researchers, industrial partners	2017/2018
Conference presentations	Report on soil mechanics and post-harvest quality control	Luke	Scientific community	IUFRO conference in Freiburg in September 2017
Conference presentations	Precision forestry applications	Luke	Scientific community and practice	FEC conference in New Zealand in February 2018
Conference presentations	Precision forestry applications	Luke	Scientific community and practice	FORMEC Conference 2018
EFFORTE final seminar	One day indoors + one day outdoors seminar	Luke	Machine manufactures Entrepreneurs and operators Employees at forest companies	August 2019

France

Table 3. Education and information actions in France

Activity	Description	Responsibility	Target groups	When
Training courses	A one day training course on techniques and methods to reduce risks and minimize soil damages	FCBA	Entrepreneurs and machine operators Employees at forest companies	2-4 occasions each year 2017-2019
Training courses	Training for use of prototype tools for trafficability	FCBA	Forest planners at project partners facilities	2 occasions yearly 2018-2019
Seminars	Seminars with different presentations connected to the EFFORTE project	FCBA	Researchers Politicians Governments	1 - 2 occasions each year 2017-2019
Demonstrations	Field demonstration and discussion forum - Trafficability - Precision forestry	FCBA	Forest companies Entrepreneurs	5-10 occasions between 2017-2019
Exhibitions	Participation on EUROFOREST 2018 Seminars Field demonstration Poster presentation	FCBA, ONF, F&BE	Private forest owners Machine manufactures Entrepreneurs and operators Employees at forest companies	June 2018
Workshops	Preliminary project results and approach	FCBA	Managers of forest planning in forest companies	Yearly "commission professionnelle approvisionnement" from 2017 to 2019
Conference participation	Presentation of EFFORTE results and learnings	FCBA	International forest researchers	IUFRO conference in Freiburg autumn 2017, FORMEC Romania 2017

Scotland

Table 4. Education and information actions in Scotland

Activity	Description	Responsibility	Target groups	When
Seminar Presentation	Industry meeting of forest professionals in Edinburgh	Woodilee Consultancy Ltd in conjunction with James Jones and Sons Ltd	Forest sector	5th April 2017
Seminar Presentation	CONFOR – confederation of forest industries	James Jones and Sons Ltd	Land owners and practitioners	Sept/Oct 2017

