Single tree silviculture (STS)

Silvicultural approach that early selects a limited number of target trees to which ensure a free and harmonious development of crown and trunk. The thinnings are selective or from above and they are oriented to remove the direct competitors of the target trees, preserving the remaining stand. The target trees are chosen as a function of vigor, stability, tree morphology, spatial distribution. The number of released target trees (from 50 to 120 per hectare) depends on the site characteristics, the species, the biotic and abiotic risks, the type of owner, the silvicultural goal. · This approach can be applied in high forests and in coppices, in conifers (as Pinus nigra and Pseudotsuga Douglasii) and broad-leaved species, to social (Fagus sylvatica and Quercus sp.) and valuable (Castanea sativa) or sporadic tree (Prunus avium, Sorbus sp., Fraxinus sp., …) species, in public or private property. To apply this method is necessary: Specific training and care of technicians and workers from tree marker to logging Specific training of people involved in the control of the forest utilization. · From an economic and productive point of view: decreasing the management costs reduction of rotation time increasing of quantity and quality of assortments production of high-quality timber relatively quickly enhancement of phenotypes and / or species potentially able to produce quality timber - From an ecological and environmental point of view: increase of individual and stand stability increase of biodiversity increase of structural complexity maintenance of an irregular canopy cover protection of sporadic species - From a social point of view: integration with the traditional forestry increase of non-wood products increase of landscape value

DéTAILS

ORIGINE DU BOIS
Forêt

TYPE DE BOIS
Grume

TYPE DE BOIS CONCERNé
Stemwood

IMPACT SUR L'ENVIRONNEMENT ET LA BIODIVERSITé
Positive effects

EFFET SUR LE REVENU
Possibility to obtain income more frequent during the rotation period

POTENTIEL D'EXPLOITATION
--

HUB
--

IMPACT éCONOMIQUE
Enhancement of valuable assortments; decrease of management cost but increase of expertise of forest companies

POTENTIEL DE MOBILISATION
Similar to traditional silviculture but with a higher amount of big and more valuable assortments

POTENTIEL DE DURABILITé - VALEUR
--

FACILITé D'IMPLéMENTATION
Medium implementation due to the great attention during the cutting and logging phases

FACILITé D'IMPLéMENTATION - ÉVALUATION
--

PRéREQUIS CLéS
Awareness of all stakeholders in the supply chain

TYPE D'éVéNEMENT Où CETTE ICPE A éTé PRéSENTéE
--

EFFET SUR L'EMPLOI
Connection to other wood and no-wood chain

COûTS D'IMPLéMENTATION (EURO - €)
--

CONNAISSANCES SPéCIFIQUES REQUISES

Forest training

PLUS DE DéTAILS

DéFI CONCERNé

--

DOMAINE

Getsion forestière, sylviculture, services écosystémiques, résilience

TYPE DE SOLUTION

--

MOTS-CLéS

--

SOLUTION DIGITALE

Non

INNOVATION

Non

PAYS D'ORIGINE

Italie

ECHELLE D'APPLICATION

Nationale

DéBUT ET FIN D'ANNéE

2010 - 2019

INFORMATIONS DE CONTACT

PROPRIéTAIRE OU AUTEUR

francesco.pelleri@crea.gov.it

RAPPORTEUR

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

http://www.selvicoltura.eu/

SITE WEB DU PROJET

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RéFéRENCE DU PROJET

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RESSOURCES

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PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood

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