

## 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

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### 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

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### HUB

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### 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

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### FACILITÉ D'IMPLÉMENTATION

Medium implementation due to the great attention during the cutting and logging phases

### FACILITÉ D'IMPLÉMENTATION - ÉVALUATION

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### PRÉREQUIS CLÉS

Awareness of all stakeholders in the supply chain

### TYPE D'ÉVÉNEMENT OÙ CETTE ICPE A ÉTÉ PRÉSENTÉE

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### EFFET SUR L'EMPLOI

Connection to other wood and no-wood chain

### COÛTS D'IMPLÉMENTATION (EURO - €)

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## CONNAISSANCES SPÉCIFIQUES REQUISES

Forest training

## PLUS DE DÉTAILS

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### DÉFI CONCERNÉ

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### DOMAINE

Gestion forestière, sylviculture, services  
écosystémiques, résilience

### TYPE DE SOLUTION

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### MOTS-CLÉS

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### SOLUTION DIGITALE

Non

### INNOVATION

Non

### PAYS D'ORIGINE

Italie

### ECHELLE D'APPLICATION

Nationale

### DÉBUT ET FIN D'ANNÉE

2010 - 2019

## INFORMATIONS DE CONTACT

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### PROPRIÉTAIRE OU AUTEUR

### RAPPORTEUR

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## REFERENCES AND RESOURCES

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### SITE WEB PRINCIPAL

<http://www.selvicoltura.eu/>

### RESSOURCES

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### SITE WEB DU PROJET

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### RÉFÉRENCE DU PROJET

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PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A été CRéée

Rosewood

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