

## 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

## DETALLES

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### ORIGEN DE LA MADERA

Bosque

### TIPO DE MADERA

Madera en rollo

### TIPO DE MADERA AFECTADA

Stemwood

### IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD

Positive effects

### EFFECTO SOBRE LOS INGRESOS

Possibility to obtain income more frequent during the rotation period

### POTENCIAL DE EXPLOTACIÓN

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### HUB

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### IMPACTO ECONÓMICO

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

### POTENCIAL DE MOVILIZACIÓN

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

### POTENCIAL DE SOSTENIBILIDAD - VALOR

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### FACILIDAD DE APLICACIÓN

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

### FACILIDAD DE IMPLEMENTACIÓN - EVALUACIÓN

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### PREREQUISITOS CLAVE

Awareness of all stakeholders in the supply chain

### TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS

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### EFFECTO SOBRE EL EMPLEO

Connection to other wood and no-wood chain

### COSTES DE IMPLEMENTACIÓN (EURO - €)

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**CONOCIMIENTOS ESPECÍFICOS NECESARIOS**

Forest training

## MÁS DETALLES

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### RETO ABORDADO

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### DOMINIO

Gestión forestal, silvicultura, servicios ecosistémicos,--  
resiliencia

### TIPO DE SOLUCIÓN

### PALABRAS CLAVE

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### SOLUCIÓN DIGITAL

No

### INNOVACIÓN

No

### PAÍS DE ORIGEN

Italia

### ESCALA DE APLICACIÓN

Nacional

### AÑO DE INICIO Y FIN

2010 - 2019

## DATOS DE CONTACTO

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### PROPIETARIO O AUTOR

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### REPORTADOR

## REFERENCES AND RESOURCES

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### SITIO WEB PRINCIPAL

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

### SITIO WEB DEL PROYECTO

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### REFERENCIA DEL PROYECTO

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### RECURSOS

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**PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA**

Rosewood

**FECHA DE MENSAJE**

18 Sep 2019

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Link to Rosewood 4.0



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**A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY**



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