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

DETTAGLI

ORIGINE DEL LEGNO
foresta

TIPO DI LEGNO
Fusto

TIPO DI LEGNO IN QUESTIONE
Stemwood

IMPATTO SULL'AMBIENTE E LA BIODIVERSITà
Positive effects

EFFETTO SUL REDDITO
Possibility to obtain income more frequent during the rotation period

POTENZIALE DI SFRUTTAMENTO
--

HUB
--

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

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

POTENZIALE SOSTENIBILITà - VALORE
--

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

FACILITà DI IMPLEMENTAZIONE - VALUTAZIONE
--

PREREQUISITI CHIAVE
Awareness of all stakeholders in the supply chain

TIPO DI EVENTO IN CUI QUESTO BPI è STATO PRESENTATO
--

EFFETTO SUL LAVORO
Connection to other wood and no-wood chain

I COSTI DI ATTUAZIONE (EURO - €)
--

CONOSCENZE SPECIFICHE NECESSARIE

Forest training

Più DETTAGLI

SFIDA RISOLTA

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DOMINIO

La gestione forestale, selvicoltura, i servizi ecosistemici, resilienza

TIPO DI SOLUZIONE

--

PAROLE CHIAVE

--

SOLUZIONE DIGITALE

No

INNOVAZIONE

No

PAESE D'ORIGINE

Italia

SCALA DI APPLICAZIONE

Nazionale

INIZIO E FINE ANNO

2010 - 2019

CONTATTI

PROPRIETARIO O AUTORE

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REPORTER

REFERENCES AND RESOURCES

SITO PRINCIPALE

http://www.selvicoltura.eu/

SITO WEB DEL PROGETTO

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PROGETTO DI RIFERIMENTO

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RISORSE

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PROGETTO NELL'AMBITO DEL QUALE QUESTA SCHEDA è STATA CREATA

Rosewood

DATA DI INSERIMENTO

18 Set 2019

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