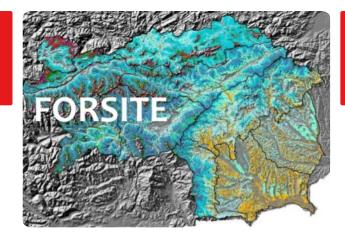
FORSITE | Dynamic ecological forest site classification



A lack of forest site information in Styria asks for a new approach to forest site classification and mapping. In this project the forest site classification will be based on a GIS-based geo-ecological stratification model.

A lack of forest site information in Styria created a need for a new approach to forest site classification and mapping, considering the changing climatic conditions, which will affect the classification of forest sites and the choice of tree species. Theoretical concepts for a new approach in "dynamic site classification" existed, but the implementation of an integrated site and forest classification in for the whole forest area in Styria has been a scientific challenge. In this project the forest site classification is based on a GIS-based geo-ecological stratification model. The database is based on a digital elevation model, a geological base map, digitally available site and climate data as well as empirical site parameters. A map of forest types is derived based on several thematic maps, including information about energy, water and nutrient balance. Those parameters are modeled on the basis of point and area related data, which are then combined into forest types with a uniform combination of factors. The model allows a stratification of the forest types on all sites based on digital geo-ecological parameters. In addition to the ecological facts, each forest type is characterized by a description of silvicultural guidelines containing information on the appropriate choice of tree species, potential hazards and adaptation methods. These guidelines also describe previous experiences with the tree species and their mixtures, and will provide recommendations for the future forest management with regard to climate change.

1

PIù DETTAGLI

SFIDA RISOLTA

1. Migliorare la resilienza delle foreste e

l'adattamento ai cambiamenti climatici

PAROLE CHIAVE

Silviculture; Forest ecology; Forest growth; Soil

science; Tree Secies suitability; climate change; Site

classification; Silvicultural Guidelines;

PAESE D'ORIGINE

Austria

DOMINIO

La gestione forestale, selvicoltura, i servizi

ecosistemici, resilienza

SOLUZIONE DIGITALE

SCALA DI APPLICAZIONE

Sì

Sì

INIZIO E FINE ANNO

INNOVAZIONE

TIPO DI SOLUZIONE

Modellazione, DSS, la simulazione, l'ottimizzazione

Regionale / sub-nazionale

CONTATTI

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https://forschung.boku.ac.at/fis/suchen.projekt_uebersicht?

sprache_in=en&menue_id_in=300&id_in=12683

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REFERENCES AND RESOURCES ____

SITO PRINCIPALE

https://forschung.boku.ac.at/fis/suchen.projekt_uebersicht

SITO WEB DEL PROGETTO

PROGETTO DI RIFERIMENTO

RISORSE





PROGETTO NELL'AMBITO DEL QUALE QUESTA SCHEDA è STATA CREATA

Rosewood 4.0

DATA DI INSERIMENTO

11 Ago 2021







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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



