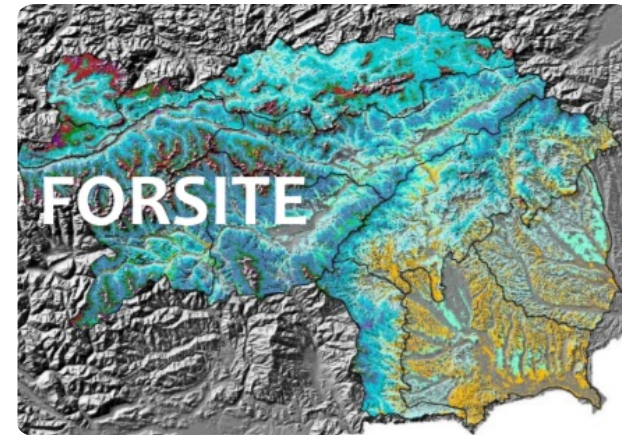


FORSITE | Dynamic ecological forest site classification



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.

MAIS DETALHES

DESAFIO ABORDADO	DOMÍNIO	TIPO DE SOLUÇÃO
1. Melhorar a resiliência e adaptação das florestas às alterações climáticas	Gestão florestal, silvicultura, serviços do ecossistema, resiliencia	Modelação, sistemas de apoio à decisão, simulação, optimização
PALAVRAS-CHAVE	SOLUÇÃO DIGITAL	INOVAÇÃO
Silviculture; Forest ecology; Forest growth; Soil science; Tree Secies suitability; climate change; Site classification; Silvicultural Guidelines;	Sim	Sim
PAÍS DE ORIGEM	ESCALA DE APLICAÇÃO	ANO DE INÍCIO E FIM
Áustria	Regional/ sub-nacional	--

DADOS DE CONTACTO

PROPRIETÁRIO OU AUTOR

University of Natural Resources and Life Sciences, Vienna (BOKU)

Harald Vacik

harald.vacik@boku.ac.at

[https://forschung.boku.ac.at/fis/suchen.projekt_uebersicht?](https://forschung.boku.ac.at/fis/suchen.projekt_uebersicht?sprache_in=en&menue_id_in=300&id_in=12683)

sprache_in=en&menue_id_in=300&id_in=12683

REPÓRTER

Holzcluster Steiermark GmbH

DI Masa Jasarevic

info@holzcluster-steiermark.at

REFERENCES AND RESOURCES

WEBSITE PRINCIPAL

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

WEBSITE DO PROJETO

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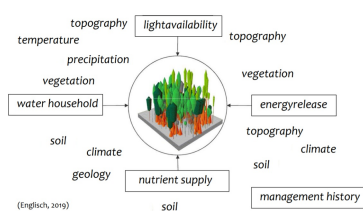
REFERÊNCIA AO PROJETO

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RECURSOS

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LOGOTIPO DA BOA PRÁTICA



LOGOTIPO DA ORGANIZAÇÃO PRINCIPAL



PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

11 Ago 2021



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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

