



ROSEWOOD
4.0 Sustainable Wood
for Europe

FINT-CH

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In the project FINT-CH a methodology for the large-scale characterization of forest structures, thereon a better detection of single trees on the basis of remote sensing data, is under development. By using segmentation, stand boundaries and the corresponding top height, cover and mixture ratio get determined. This forms the basis for the specific single tree detection using forest structures. Large-scale geodata with valuable forest information can be generated. Their usage in practice are demonstrated on the basis of four examples. Vector-geodata (type polygon) with stand boundaries and the following attributes:

- Basic shape (uniform, unequally)
- Top height (hdom)
- Cover ratio
- Mixture ratio

- Stem number of upper-class trees
- Basal area of upper-class trees
- the following attributes:
 - Top height
 - BHD
 - Social status in the upper-class
 - Z-trees

Vector-geodata (type polygon) with forest gaps, boundaries and aisle The methodology should be able to get a simple and large-scale investigation every 5 to 10 years regarding the mentioned data attributes mentioned beforehand. With these attributes conclusions are possible regarding stem numbers of different classes, protective forest investigations, mapping of forest gaps, boundaries and aisle as well as on stock estimations and finally operational planning (allowable cut, activity planning...)

PLUS DE DÉTAILS

DéFI CONCERNé	DOMAINE	TYPE DE SOLUTION
2. Améliorer les infrastrctures et les capacités des acteurs publics	Inventaire, diagnostic, monitoring Gestion forestière, sylviculture, services écosystémiques, résilience Recherche et développement	Capteurs, équipement de mesure
MOTS-CLéS	SOLUTION DIGITALE	INNOVATION
Remote sensing data; monitoring; Detection; Software	Oui	Oui
PAYS D'ORIGINE	ECHELLE D'APPLICATION	DéBUT ET FIN D'ANNéE
Suisse	Nationale	--

INFORMATIONS DE CONTACT

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REFERENCES AND RESOURCES

SITE WEB PRINCIPAL	RESSOURCES
https://www.bfh.ch/haf1/en/	--
SITE WEB DU PROJET	
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RéFéRENCE DU PROJET

PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A ÉTÉ CRÉÉE

Rosewood 4.0

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

