



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...)

MÁS DETALLES

RETO ABORDADO	DOMINIO	TIPO DE SOLUCIÓN
2. Mejorar las infraestructuras y la capacidad de los agentes públicos	Inventario, evaluación, seguimiento Gestión forestal, silvicultura, servicios ecosistémicos, resiliencia Investigación y desarrollo	Sensores, equipos de medición
PALABRAS CLAVE	SOLUCIÓN DIGITAL	INNOVACIÓN
Remote sensing data; monitoring; Detection; Software	Sí	Si
PAÍS DE ORIGEN	ESCALA DE APLICACIÓN	AÑO DE INICIO Y FIN
Suiza	Nacional	--

DATOS DE CONTACTO

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REFERENCES AND RESOURCES

SITIO WEB PRINCIPAL	RECURSOS
https://www.bfh.ch/haf1/en/	--
SITIO WEB DEL PROYECTO	
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REFERENCIA DEL PROYECTO

PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood 4.0

FECHA DE MENSAJE

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



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