FINT-CH (Find Individual Trees Switzerland)

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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 Vector-geodata (type points) with detected single trees and 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

2. Mejorar las infraestructuras y la capacidad de los agentes públicos

DOMINIO

Inventario, evaluación, seguimiento

Gestión forestal, silvicultura, servicios ecosistémicos, resiliencia

Investigación y desarrollo

TIPO DE SOLUCIóN

Sensores, equipos de medición

PALABRAS CLAVE

Remote sensing data; monitoring; Detection; Software

SOLUCIóN DIGITAL

Sí

INNOVACIóN

Si

PAíS DE ORIGEN

Suiza

ESCALA DE APLICACIóN

Nacional

AñO DE INICIO Y FIN

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REFERENCES AND RESOURCES

SITIO WEB PRINCIPAL

https://www.bfh.ch/hafl/en/

SITIO WEB DEL PROYECTO

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REFERENCIA DEL PROYECTO

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RECURSOS

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PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood 4.0

FECHA DE MENSAJE

12 Ago 2021

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