

# FINT-CH (Find Individual Trees Switzerland)



## FINT-CH

*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. Top height, cover and mixture ratio get determined.*

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... )

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

The

## VEČ PODROBNOSTI

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### IZZIV

2. Izboljšava infrastrukture in kapacitet deležnikov

### DOMENA

Inventura, ocena, monitoring  
Gojenje gozdov, gospodarjenje z gozdovi, odpornost,  
ekosistemske storitve  
Raziskave in razvoj

### TIP REŠITVE

Senzorji, merilna oprema

### KLJUČNE BESEDE

Remote sensing data; monitoring; Detection;  
Software

### DIGITALNE REŠITVE

Da

### INOVACIJA

Da

### IZVORNA DRŽAVA

Švica

### OBSEG UPORABE

Nacionalni

### ZAČETNO IN KONČNO LETO

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## KONTAKTN PODATKI

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## REFERENCES AND RESOURCES

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### SPLETNA STRAN

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

### SPLETNA STRAN PROJEKTA

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### REFERENCA PROJEKTA

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### VIRI

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**PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI**

Rosewood 4.0

**DATUM OBJAVE**

12 Aug 2021

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**A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY**

