

# 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. 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

## MER INFORMATION

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### UTMANING SOM ADRESSERAS

2. Förbättra infrastruktur och kapacitet hos offentliga aktörer

### DOMÄN

Inventering, värdering, övervakning  
Skogsförvaltning, skogskjötsel, ekosystemtjänster  
Forskning och utveckling

### TYPE AV LÖSNING

Sensorer, mätinstrument

### NYCKELORD

Remote sensing data; monitoring; Detection;  
Software

### DIGITAL LÖSNING

Ja

### INNOVASION

Ja

### UPPHOVSLAND

Schweiz

### POTENTIAL

Nationell

### START OCH SLUTÅR

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## KONTAKT INFORMATION

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### RAPPORTÖR

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## REFERENCES AND RESOURCES

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### HEMSIDA (HUVUDSIDA)

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

### PROJEKTETS HEMSIDA

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### PROJEKTREFERENS

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### RESURSER

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PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood 4.0

DATUM FÖR INLÄGG

12 aug 2021

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

