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

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- 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...)

Περισσότερες λεπτομέρειες

Πρόκληση η οποία αντιμετωπίζεται Όνομα χώρου Τύπος λύσης 2. Βελτίωση υποδομών και των ικανοτήτων Απογραφή, αξιολόγηση, παρακολούθηση Αισθητήρες, εξοπλισμός μέτρησης των δημοσίων φορέων Διαχείριση δασών, δασοκομία, υπηρεσίες οικοσυστήματος, ανθεκτικότητα Έρευνα και ανάπτυξη Λέξεις κλειδιά Ψηφιακή λύση Καινοτομία Remote sensing data; monitoring; Detection; Ναι ναι Software Χώρα προέλευσης Κλίμακα της εφαρμογής Έτος έναρξης και λήξης Εθνικό Ελβετία Στοιχεία επικοινωνίας Ιδιοκτήτης ή συγγραφέας Αναφορεάς **BFH Bern University of Applied Sciences BFH Berne University of Applied Sciences Luuk Dorren Moritz Dreher** luuk.dorren@bfh.ch moritzkaspar.dreher@bfh.ch https://www.bfh.ch/hafl/en/ **REFERENCES** AND RESOURCES _____ Κύριος ιστότοπος Πηγές https://www.bfh.ch/hafl/en/ Ιστότοπος έργου Αναφορά έργου

Έργο για το οποίο έχει δημιουργηθεί το παρόν φύλλο πληροφοριών Rosewood 4.0

Ημερομηνία δημοσίευσης 12 Αυγ 2021







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 862681

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY



