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…)

Περισσότερες λεπτομέρειες

Πρόκληση η οποία αντιμετωπίζεται

2. Βελτίωση υποδομών και των ικανοτήτων των δημοσίων φορέων

Όνομα χώρου

Απογραφή, αξιολόγηση, παρακολούθηση

Διαχείριση δασών, δασοκομία, υπηρεσίες οικοσυστήματος, ανθεκτικότητα

Έρευνα και ανάπτυξη

Τύπος λύσης

Αισθητήρες, εξοπλισμός μέτρησης

Λέξεις κλειδιά

Remote sensing data; monitoring; Detection; Software

Ψηφιακή λύση

ναι

Καινοτομία

Ναι

Χώρα προέλευσης

Ελβετία

Κλίμακα της εφαρμογής

Εθνικό

Έτος έναρξης και λήξης

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REFERENCES AND RESOURCES

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Ιστότοπος έργου

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Αναφορά έργου

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Πηγές

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Έργο για το οποίο έχει δημιουργηθεί το παρόν φύλλο πληροφοριών

Rosewood 4.0

Ημερομηνία δημοσίευσης

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