Drones in the Service of Forestry



Single tree detection software uses drone data as the basis for estimating important tree parameters (tree position, height and diameter). Drones offer very precise terrain and inventory data and are very cost-effective.

Drone images are commonly used today as optical support in the forestry sector. The Potential of drone data and parameters that can be generated from single tree detection software is far from exhausted. The innovative and creative aspect of the project is to crate a digital twin of the forest. This twin provides all important tree parameters for the researchers to model the forest, make estimations of interventions, plan and make predictions.

MEHR DETAILS

ANGESPROCHENE HERAUSFORDERUNG

5. Verbesserung der wirtschaftlichen und ökologischen Leistung der forstwirtschaftlichen Forstlieferketten

DOMäNE

Bestandsaufnahme, Bewertung, Überwachung

Waldmanagement, Waldbau, Ökosystemleistungen, Resilienz

Forschung und Entwicklung

ART DER LöSUNG

Sensoren, Messgeräte

SCHLüSSELWöRTER

Drones; Inventory; Management

DIGITALE LöSUNG

Ja

INNOVATION

Ja

HERKUNFTSLAND

Schweiz

UMFANG DER ANWENDUNG

National

ANFANGS- UND ENDJAHR

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REFERENCES AND RESOURCES

HAUPT-WEBSITE

https://www.grstiftung.ch/de/search~grs-047-17~.html

PROJEKT-WEBSITE

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PROJEKT-REFERENZ

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RESSOURCEN

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PROJEKT, IN DESSEN RAHMEN DIESES FACTSHEET ERSTELLT WURDE

Rosewood 4.0

BEITRAGSDATUM

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