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.

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MORE DETAILS

CHALLENGE ADDRESSED

TYPE OF SOLUTION

5.- Enhance economic and environmental

Inventory, monitoring

Sensors, measurement equipment

performance of forest supply chains

Forest management, ecosystem, resilience

Research and development

KEYWORDS

DIGITAL SOLUTION

INNOVATION

Drones; Inventory; Management

Yes

Yes

COUNTRY OF ORIGIN

SCALE OF APPLICATION

START AND END YEAR

Switzerland

National

DOMAIN

CONTACT DATA

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REFERENCES AND RESOURCES _____

MAIN WEBSITE

RESOURCES

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

PROJECT WEBSITE

PROJECT REFERENCE

PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood 4.0

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