

## Drones in the Service of Forestry



**ROSEWOOD**  
**4.0** Sustainable Wood  
for Europe

*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.

## PLUS DE DÉTAILS

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| DéFI CONCERNé   | DOMAINE   | TYPE DE SOLUTION               |
|---|---|--------------------------------|
| 5. Accroître les performances économiques et environnementales de la chaîne logistique forestière | Inventaire, diagnostic, monitoring Getsion forestière, sylviculture, services écosystémiques, résilience Recherche et développement | Capteurs, équipement de mesure |
| MOTS-CLéS   | SOLUTION DIGITALE   | INNOVATION                     |
| Drones; Inventory; Management   | Oui   | Oui                            |
| PAYS D'ORIGINE  | ECHELLE D'APPLICATION   | DéBUT ET FIN D'ANNéE           |
| Suisse  | Nationale   | --                             |

## INFORMATIONS DE CONTACT

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| PROPRIéTAIRE OU AUTEUR  | RAPPORTEUR                              |
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| <a href="https://arbor.bfh.ch/8230/">https://arbor.bfh.ch/8230/</a> |   |

## REFERENCES AND RESOURCES

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| SITE WEB PRINCIPAL  | RESSOURCES |
|---|------------|
| <a href="https://www.grstiftung.ch/de/search~grs-047-17~.html">https://www.grstiftung.ch/de/search~grs-047-17~.html</a> | --         |
| SITE WEB DU PROJET  | --         |
| RéFéRENCE DU PROJET   | --         |

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PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A ÉTÉ CRÉÉE

Rosewood 4.0

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

