

## 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 create 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.

## MAIS DETALHES

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### DESAFIO ABORDADO

5. Melhorar o desempenho económico e ambiental das cadeias de abastecimento florestal

### DOMÍNIO

Inventário, avaliação e monitorização  
Gestão florestal, silvicultura, serviços do ecossistema, resiliencia  
Investigação e desenvolvimento

### TIPO DE SOLUÇÃO

Sensores, equipamentos de medição

### PALAVRAS-CHAVE

Drones; Inventory; Management

### SOLUÇÃO DIGITAL

Sim

### INOVAÇÃO

Sim

### PAÍS DE ORIGEM

Suíça

### ESCALA DE APLICAÇÃO

Nacional

### ANO DE INÍCIO E FIM

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## DADOS DE CONTACTO

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### PROPRIETÁRIO OU AUTOR

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## REFERENCES AND RESOURCES

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### WEBSITE PRINCIPAL

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

### RECURSOS

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### WEBSITE DO PROJETO

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### REFERÊNCIA AO PROJETO

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PROJETO NO ÂMBITO DO QUAL A FOLHA DE DIVULGAÇÃO FOI CRIADA

Rosewood 4.0

DATA DE ENTRADA

12 Ago 2021

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

862681

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

