

# Forest growing model (SiWaWa 2.0)



## SiWaWa 2.0

*A simple forest growth simulation model for practitioner (Android-App). SiWaWa needs only the number of the stems [N], the basal area per hectare [G] of a certain stand to generate separated the stem distribution curve according to the DBH-classes.*

A simple forest growth simulation model for practitioner (Android-App). SiWaWa needs only the number of the stems [N], the basal area per hectare [G] of a certain stand to generate separated the stem distribution curve according to the DBH-classes. Free available Android-App, which could be used in the following fields:

1. Strategy: Goal dimension of the trees, cutting time
2. Care concept: Coordination of harvesting time, optimization of productivity
3. Measurements: Urgency and priority
4. Analysis: Starting point and forest development without

interventions. Definition of intervention measures and simulation. SiWaWa 2.0 supports the decision makers in two aspects: Silvicultural and forest planning. It supports the foresters in a better understanding of the state point and forest development.

## MORE DETAILS

---

### CHALLENGE ADDRESSED

5.- Enhance economic and environmental performance of forest supply chains

### KEYWORDS

Simulation; Growth; App

### COUNTRY OF ORIGIN

Switzerland

### DOMAIN

Forest management, ecosystem, resilience  
Education and training

### DIGITAL SOLUTION

Yes

### SCALE OF APPLICATION

National

### TYPE OF SOLUTION

Modelling, simulation, optimization

### INNOVATION

Yes

### START AND END YEAR

--

## CONTACT DATA

---

### OWNER OR AUTHOR

BFH Berne University of Applied Sciences

Christian Rosset

christian.rosset@bfh.ch

### REPORTER

BFH Bern University of Applied Sciences

Moritz Dreher

moritzkaspar.dreher@bfh.ch

## REFERENCES AND RESOURCES

---

### MAIN WEBSITE

<http://siwawa.org/wiki/index.php>

### PROJECT WEBSITE

--

### PROJECT REFERENCE

--

### RESOURCES

--

---

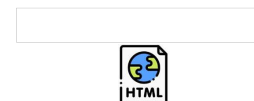
PROJECT UNDER WHICH THIS FACTSHEET HAS BEEN CREATED

Rosewood

POST DATE

12 Aug 2021

---



This project has received funding from the European Union's Horizon  
2020 research and innovation programme under grant agreement No.  
862681

---

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

