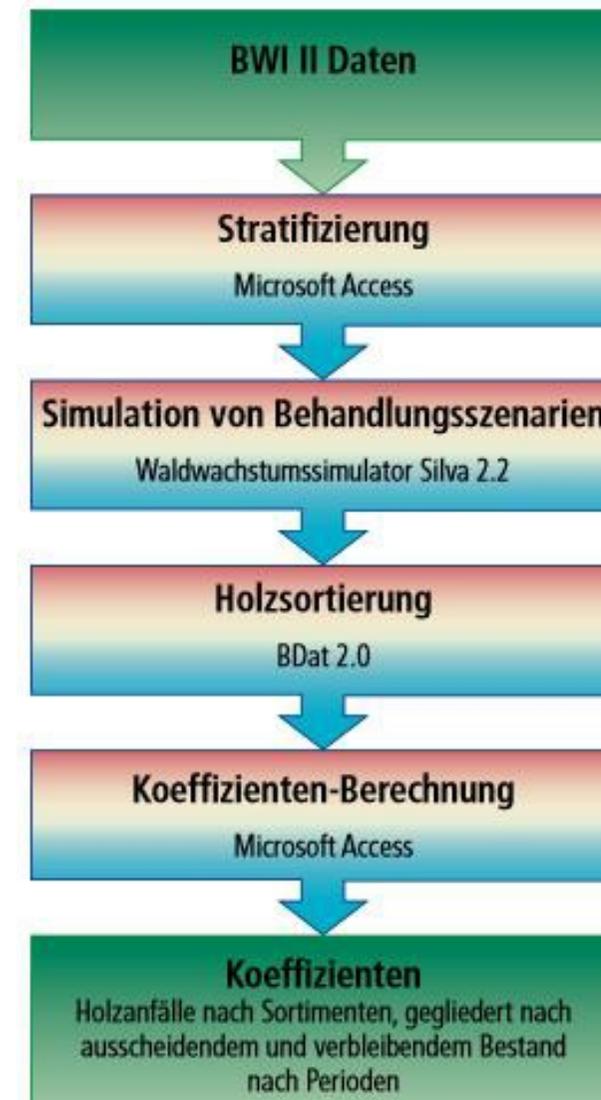


## Natural and financial indicators for the consultation of private and communal forest owners



The basic idea is the processing of natural and financial data for typical forest stands and selected forest treatment alternatives after previous simulation calculations. Thereby, the question initially was limited to the depiction of the alternatives “thinning” or “without thinning”.

This prototype can be complemented with additional indicators; other areas and forest treatment strategies and therefore more data should be added and furthermore more risk integration has to be done

The sorted single tree data then were condensed to coefficients via MS Access queries. The coefficients contain information about the arising amounts of wood of the simulated treatments or rather the timber stock of the remaining stands – sorted into sorts of wood and simulation period. After feeding the data to the consultation support system, a connection to current prices for timber and timber harvesting costs was established. Based on the data from the second National Forest Inventory, the stratification of the area of the Bavarian “Tertiäres Hügelland” and the compilation of simulation stocks was carried out. Using the forest growth simulator Silva 2.2, the simulation stocks were updated once without treatment and once updated according to a thinning scheme. In the next step, the results of the simulation runs (single tree data for the remaining and the outgoing stock) were sorted according to regional sorting criteria using the sorting program BDat 2.0.

## DETALLES

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### ORIGEN DE LA MADERA

Bosque

### TIPO DE MADERA

Madera en rollo

### TIPO DE MADERA AFECTADA

Stemwood

### IMPACTO EN EL MEDIO AMBIENTE Y LA BIODIVERSIDAD

Positive on biodiversity and forest resilience enhancement

### EFFECTO SOBRE LOS INGRESOS

Positive / more efficient working processes / cost reduction possibility  
identification

### POTENCIAL DE EXPLOTACIÓN

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### HUB

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### IMPACTO ECONÓMICO

An active learning of different silvicultural approaches for forest owners can be achieved. But cost effects are hardly to describe.

### POTENCIAL DE MOVILIZACIÓN

Area affected is small but information about advantages of thinnings regarding risks can contribute on a wider level (estimated more than 1 m<sup>3</sup>/ha)

### POTENCIAL DE SOSTENIBILIDAD - VALOR

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### FACILIDAD DE APLICACIÓN

Difficult as an expert tool

### FACILIDAD DE IMPLEMENTACIÓN - EVALUACIÓN

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### PREREQUISITOS CLAVE

Just In cooperation with TUM possible

### TIPO DE EVENTO EN EL QUE SE HA PRESENTADO ESTA IFS

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### EFFECTO SOBRE EL EMPLEO

Better qualified staff through verification and discussion possibilities

### COSTES DE IMPLEMENTACIÓN (EURO - €)

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## CONOCIMIENTOS ESPECÍFICOS NECESARIOS

The system is depending on complex program Silva 2.2 – forest experts of TUM have to be included

## MÁS DETALLES

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### RETO ABORDADO

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### DOMINIO

Gestión forestal, silvicultura, servicios  
ecosistémicos, resiliencia

### TIPO DE SOLUCIÓN

Modelización, DSS, simulación, optimización

### PALABRAS CLAVE

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### SOLUCIÓN DIGITAL

Sí

### INNOVACIÓN

No

### PAÍS DE ORIGEN

Alemania

### ESCALA DE APLICACIÓN

Regional/sub-nacional

### AÑO DE INICIO Y FIN

2009 - 2009

### DATOS DE CONTACTO

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### PROPIETARIO O AUTOR

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### REPORTADOR

### REFERENCES AND RESOURCES

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### SITIO WEB PRINCIPAL

<https://mediatum.ub.tum.de/doc/829183/document.pdf>

### RECURSOS

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### SITIO WEB DEL PROYECTO

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### REFERENCIA DEL PROYECTO

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PROYECTO BAJO EL QUE SE HA CREADO ESTA FICHA

Rosewood

FECHA DE MENSAJE

15 Nov 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY

