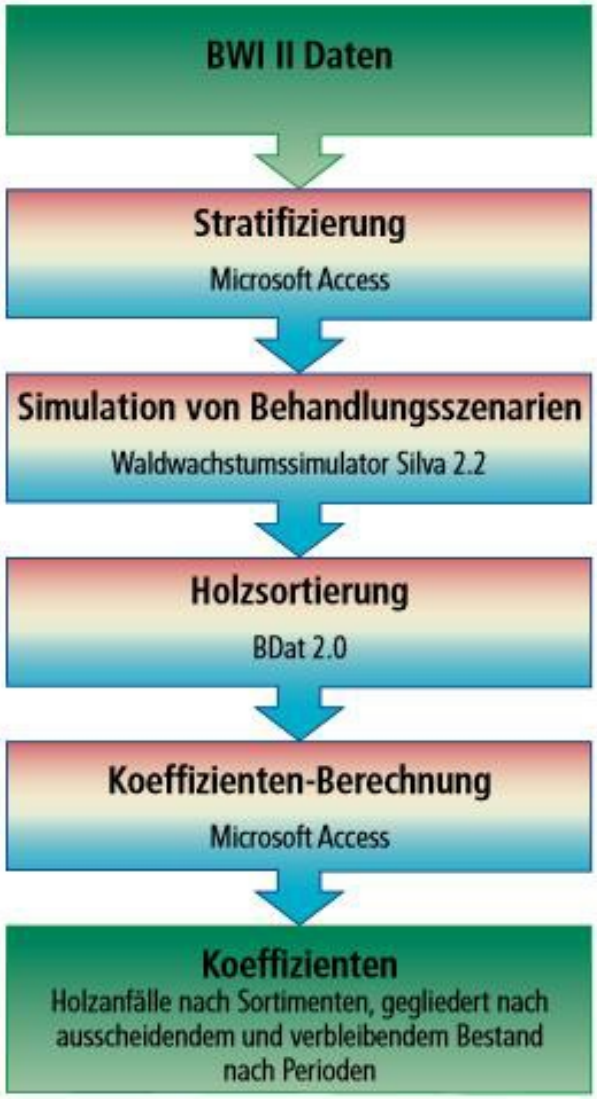
Natural and financial indicators for the consultation of private and communal forest owners



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.

DETALJER

VEDENS URSPRUNG
Skog

TRäTYP
Rundvirke

TYP AV TRä
Stemwood

PåVERKAN På MILJö & BIOLOGISK MåNGFALD
Positive on biodiversity and forest resilience enhancement

EKONOMISK EFFEKT
Positive / more efficient working processes / cost reduction possibility identification

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

MOBILISERINGSPOTENTIAL
Area affected is small but information about advantages of thinnings regarding risks can contribute on a wider level (estimated more than 1 m3/ha)

HåLLBARHETS POTENTIAL - VäRDE
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ENKEL IMPLEMENTERING
Difficult as an expert tool

ENKEL IMPLEMENTERING - UTVäRDERING
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NYCKEL FöRUTSäTTNINGAR
Just In cooperation with TUM possible

TYP AV EVENEMANG DäR DENNA BPI HAR PRESENTERATS
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EFFEKT ANTAL ANSTäLLDA
Better qualified staff through verification and discussion possibilities

KOSTNADER FöR IMPLEMENTERING (EURO - €)
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SPECIFIKA KUNSKAPSBEHOV

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

MER INFORMATION

UTMANING SOM ADRESSERAS

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DOMäN

Skogsförvaltning, skogskjötsel, ekosystemtjänster

TYPE AV LöSNING

Modellering, DSS, simulering, optimering

NYCKELORD

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DIGITAL LöSNING

Ja

INNOVASION

Nej

UPPHOVSLAND

Tyskland

POTENTIAL

Regional/landsdel

START OCH SLUTåR

2009 - 2009

KONTAKT INFORMASION

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RAPPORTöR

REFERENCES AND RESOURCES

HEMSIDA (HUVUDSIDA)

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

RESURSER

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PROJEKTETS HEMSIDA

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PROJEKTREFERENS

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PROJEKT SOM DETTA FACTSHEET SKAPATS INOM

Rosewood

DATUM FöR INLäGG

15 nov 2019

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