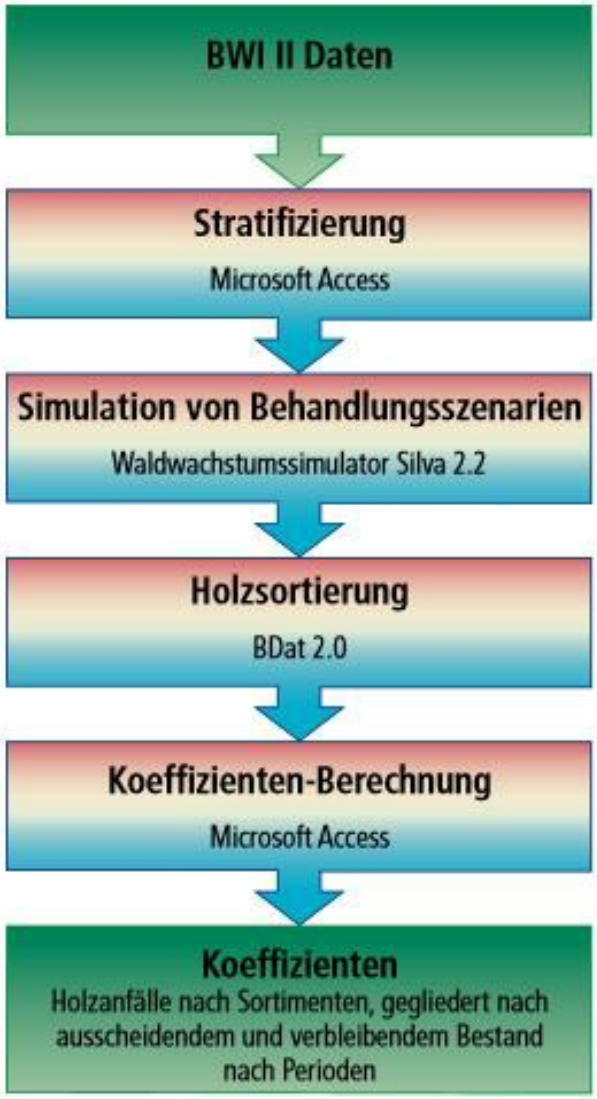
Natural and financial indicators for the consultation of private and communal forest owners



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.

DETALJI

PODRIJETLO DRVA
Šuma

VRSTA DRVA
Deblo

ODGOVARAJUĆA VRSTA DRVA
Stemwood

UTJECAJ NA OKOLIŠ I BIORAZNOLIKOST
Positive on biodiversity and forest resilience enhancement

UČINAK NA PRIHOD
Positive / more efficient working processes / cost reduction possibility identification

POTENCIJAL ISKORISTIVOSTI
--

SREDIŠTE
--

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

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

POTENCIJAL ODRŽIVOSTI - VRIJEDNOST
--

JEDNOSTAVNOST PROVEDBE
Difficult as an expert tool

JEDNOSTAVNOST PROVEDBE - EVALUACIJA
--

KLJUČNI PREDUVJETI
Just In cooperation with TUM possible

VRSTA DOGAđAJA NA KOJEM JE PRIKAZAN OVAJ BPI
--

UČINAK NA ZAPOŠLJIVOST
Better qualified staff through verification and discussion possibilities

TROŠKOVI PROVEDBE (EURO - €)
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POTREBNA POSEBNA ZNANJA

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

VIŠE DETALJA

IZAZOV

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DOMENA

Upravljanje šumama, uzgoj šuma, usluge ekosustava, otpornost

VRSTA RJEŠENJA

Modeliranje, sustav za podršku odlučivanju, simulacija, optimizacija

KLJUČNE RIJEČI

--

DIGITALNO RJEŠENJE

Da

INOVACIJA

Ne

ZEMLJA PODRIJETLA

Njemačka

PODRUČJE PRIMJENE

Regionalno / podnacionalno

POČETAK I KRAJ GODINE

2009 - 2009

KONTAKT PODATCI

VLASNIK ILI AUTOR

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IZVJESTITELJ

REFERENCES AND RESOURCES

GLAVNA WEB STRANICA

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

WEB STRANICA PROJEKTA

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REFERENCA PROJEKTA

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IZVORI

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PROJEKT U OKVIRU KOJEG JE INFORMATIVNI LIST KREIRAN

Rosewood

DATUM UNOSA

15 stu 2019

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Link to Rosewood 4.0

A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY