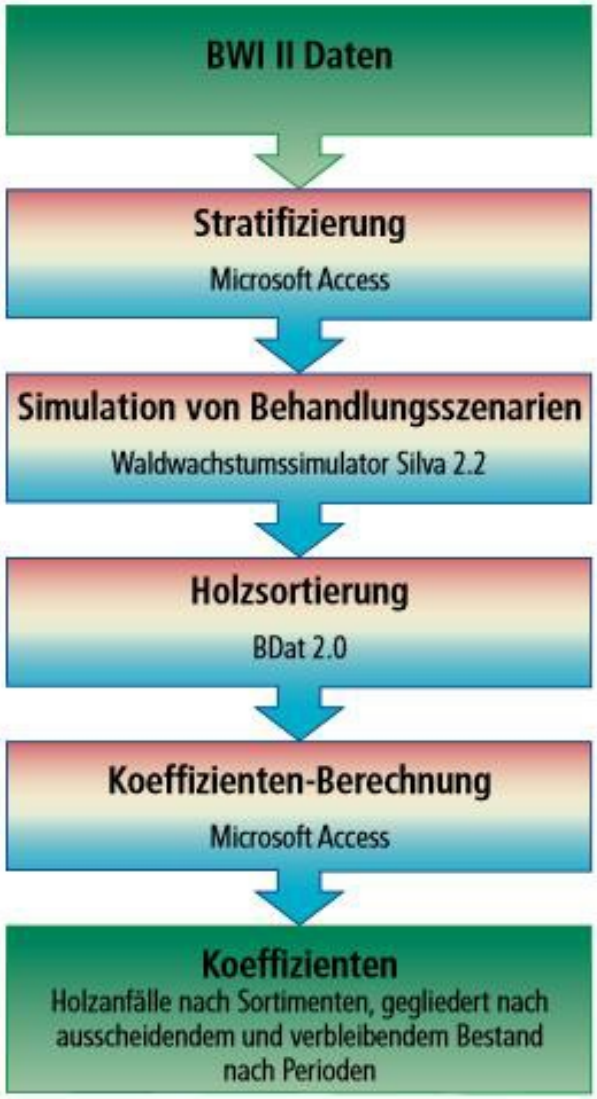
Natural and financial indicators for the consultation of private and communal forest owners



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.

DETALII

SURSA DE LEMN

Pădure

TIPUL DE LEMN

Lemn masiv

TIPUL DE LEMN îN CAUZă

Stemwood

IMPACTUL ASUPRA MEDIULUI șI BIODIVERSITățII

Positive on biodiversity and forest resilience enhancement

EFECT ASUPRA VENITURILOR

Positive / more efficient working processes / cost reduction possibility identification

POTENțIAL DE EXPLOATARE

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HUB

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IMPACT ECONOMIC

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

POTENțIALUL DE MOBILIZARE

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

POTENțIAL DE SUSTENABILITATE - VALOARE

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FACILITATEA DE IMPLEMENTARE

Difficult as an expert tool

FACILITATEA DE IMPLEMENTARE - EVALUARE

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CONDIțII CHEIE PREALABILE

Just In cooperation with TUM possible

TIPUL DE EVENIMENT LA CARE A FOST PREZENTAT ACEST IPB

--

EFECT ASUPRA LOCURILOR DE MUNCă

Better qualified staff through verification and discussion possibilities

COSTURI PENTRU IMPLEMENTARE (EURO - €)

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CUNOȘTINȚE SPECIFICE NECESARE

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

MAI MULTE DETALII

PROVOCARE ABORDATă

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DOMAIN

Managementul pădurilor, silvicultura, servicii ecosistemice, reziliență

TIP DE SOLUțIE

Modelare, DSS, simulare, optimizare

CUVINTE CHEIE

--

SOLUțIE DIGITALă

Da

INOVAțIE

Nu

ȚARA DE ORIGINE

Germania

SCARA DE APLICARE

Regional/ sub-național

ANUL DE îNCEPUT șI DE SFâRșIT

2009 - 2009

DATE DE CONTACT

PROPRIETAR SAU AUTOR

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REPORTER

REFERENCES AND RESOURCES

PAGINă WEB

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

RESURSE

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WEBSITE PROJECT

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REFERINță PROIECT

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PROIECTUL îN CADRUL CăRUIA A FOST CREATă ACEASTă FIșă INFORMATIVă

Rosewood

DATA POSTăRII

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