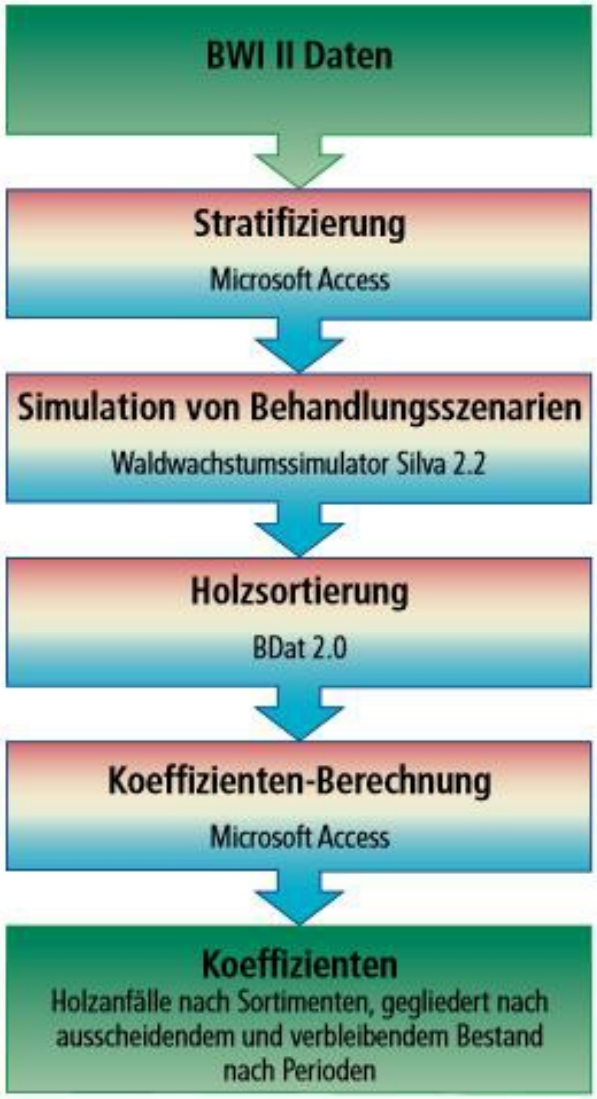
Natural and financial indicators for the consultation of private and communal forest owners



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.

PODROBNOSTI

PôVOD DREVA
Les

DRUH DREVA
Kmeňové drevo

UVAžOVANý DRUH DREVA
Stemwood

VPLYV NA žIVOTNé PROSTREDIE A BIODIVERZITU
Positive on biodiversity and forest resilience enhancement

DOPAD NA PRíJMY
Positive / more efficient working processes / cost reduction possibility identification

POTENCIáL VYUžITIA
--

ROZBOčOVAč
--

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

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

POTENCIáL UDRžATEĽNOSTI - HODNOTA
--

UĽAHčENIE IMPLMENTáCIE
Difficult as an expert tool

UĽAHčENIE IMPLMENTáCIE - HODNOTENIE
--

KĽúčOVé PREPOKLADY
Just In cooperation with TUM possible

TYP PODUJATIA, NA KTOROM BOL TENTO BPI PREZENTOVANý
--

DOPAD NA ZAMESTNANOSť
Better qualified staff through verification and discussion possibilities

NáKLADY NA IMPLEMENTáCIU (EURO - €)
--

POTREBA šPECIFICKýCH ZNALOSTí

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

VIAC INFORMáCIí

RIEšENá VýZVA

--

DOMAIN

Lesné hospodárstvo/hospodárska úprava lesa, pestovanie lesa, ekosystémové služby, odolonosť

TYP RIEšENIA

Modelovanie, simulácia, optimalizácia

KľúčOVé SLOVá

--

DIGITALNE RIEšENIE

áno

INOVáCIE

Nie

KRAJINA PôVODU

Nemecko

ROZSAH APLIKáCIE

Regionálny/

ZAčIATOK A KONIEC ROKA

2009 - 2009

KONTAKTNé úDAJE

VLASTNíK ALEBO AUTOR

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REPORTéR

REFERENCES AND RESOURCES

HLAVNá WEBSTRáNKA

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

PROJEKTOVá WEBSTRáNKA

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REFERENCIA PROJEKTU

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ZDROJE

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PROJEKT, V RáMCI KTORéHO BOL TENTO INFORMAčNý PREHľAD VYTVORENý

Rosewood

DáTUM ODOSLANIA

15 nov 2019

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A TOOL FROM ROSEWOOD 4.0, DESIGNED AND DEVELOPED BY