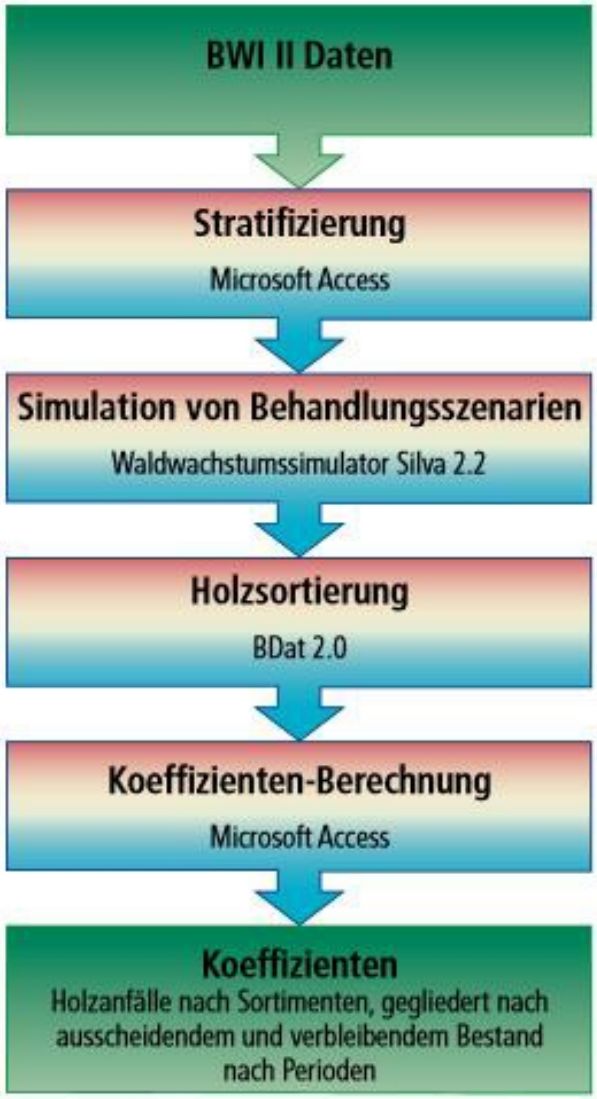
Natural and financial indicators for the consultation of private and communal forest owners



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.

DéTAILS

ORIGINE DU BOIS
Forêt

TYPE DE BOIS
Grume

TYPE DE BOIS CONCERNé
Stemwood

IMPACT SUR L'ENVIRONNEMENT ET LA BIODIVERSITé
Positive on biodiversity and forest resilience enhancement

EFFET SUR LE REVENU
Positive / more efficient working processes / cost reduction possibility identification

POTENTIEL D'EXPLOITATION
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HUB
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IMPACT éCONOMIQUE
An active learning of different silvicultural approaches for forest owners can be achieved. But cost effects are hardly to describe.

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

POTENTIEL DE DURABILITé - VALEUR
--

FACILITé D'IMPLéMENTATION
Difficult as an expert tool

FACILITé D'IMPLéMENTATION - ÉVALUATION
--

PRéREQUIS CLéS
Just In cooperation with TUM possible

TYPE D'éVéNEMENT Où CETTE ICPE A éTé PRéSENTéE
--

EFFET SUR L'EMPLOI
Better qualified staff through verification and discussion possibilities

COûTS D'IMPLéMENTATION (EURO - €)
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CONNAISSANCES SPéCIFIQUES REQUISES

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

PLUS DE DéTAILS

DéFI CONCERNé

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DOMAINE

Getsion forestière, sylviculture, services écosystémiques, résilience

TYPE DE SOLUTION

Modélisation, DSS, simulation, optimisation

MOTS-CLéS

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SOLUTION DIGITALE

Oui

INNOVATION

Non

PAYS D'ORIGINE

Allemagne

ECHELLE D'APPLICATION

Régionale/subnationale

DéBUT ET FIN D'ANNéE

2009 - 2009

INFORMATIONS DE CONTACT

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RAPPORTEUR

REFERENCES AND RESOURCES

SITE WEB PRINCIPAL

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

SITE WEB DU PROJET

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RéFéRENCE DU PROJET

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RESSOURCES

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PROJET SOUS LEQUEL CETTE FICHE D'INFORMATION A éTé CRééE

Rosewood

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