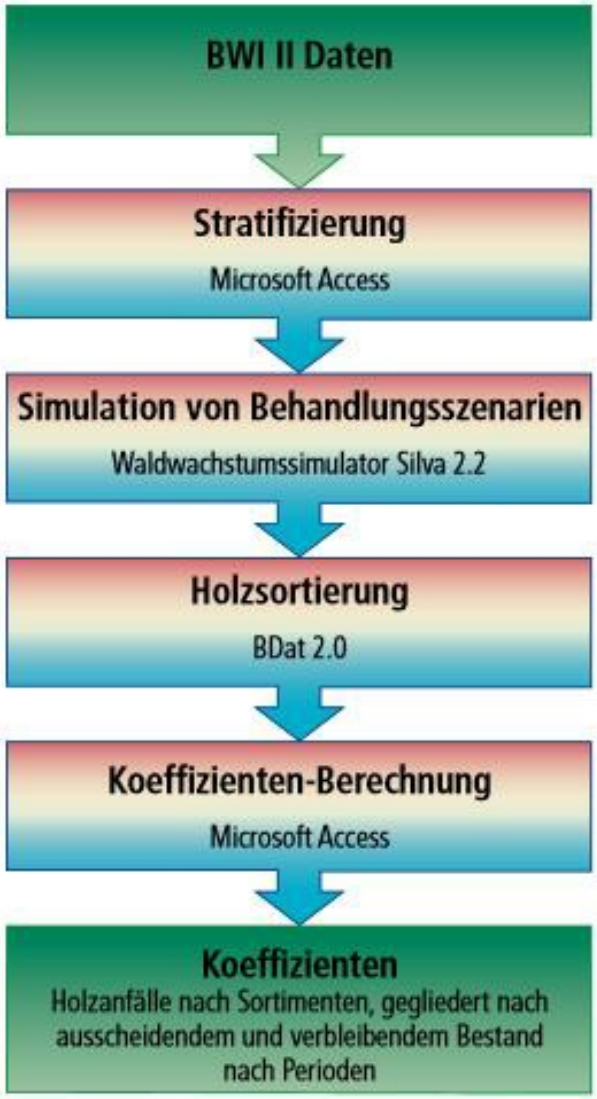
Natural and financial indicators for the consultation of private and communal forest owners



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

IZVOR LESA
Gozd

TIP LESA
Okrogli les

VRSTA OBRAVNAVANEGA LESA
Stemwood

VPLIV NA OKOLJE IN BIODIVERZITETO
Positive on biodiversity and forest resilience enhancement

VPLIV NA PRIHODKE
Positive / more efficient working processes / cost reduction possibility identification

POTENCIAL IZKORIŠČANJA
--

VOZLIŠČE
--

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

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

TRAJNOST - VREDNOST
--

ENOSTAVNOST IZVEDBE
Difficult as an expert tool

ENOSTAVNOST IZVEDBE - OCENJEVANJE
--

KLJUČNI PREDPOGOJI
Just In cooperation with TUM possible

VRSTA DOGODKA, NA KATEREM JE BIL PREDSTAVLJEN TA BPI
--

VPLIV NA DELOVNA MESTA
Better qualified staff through verification and discussion possibilities

STROŠKI IZVEDBE (EURO - €)
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POTREBNO SPECIFIČNO ZNANJE

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

VEČ PODROBNOSTI

IZZIV	DOMENA	TIP REŠITVE
--	Gojenje gozdov, gospodarjenje z gozdovi, odpornost, ekosistemske storitve	Modeliranje, DSS, simulacija, optimizacija
KLJUČNE BESEDE	**DIGITALNE REŠITVE**	**INOVACIJA**
--	Da	Ne
IZVORNA DRŽAVA	**OBSEG UPORABE**	**ZAČETNO IN KONČNO LETO**
Nemčija	Regionalni	2009 - 2009

KONTAKTN PODATKI

LASTNIK OZ. AVTOR

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POROČEVALEC

REFERENCES AND RESOURCES

SPLETNA STRAN

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

SPLETNA STRAN PROJEKTA

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REFERENCA PROJEKTA

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VIRI

--

PROJEKT, V OKVIRU KATEREGA SO BILI ZBRANI OSNOVNI PODATKI

Rosewood

DATUM OBJAVE

15 Nov 2019

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