

Multi-Criteria Analysis with test chains in Baden-Württemberg.

Testing approaches and software with stakeholders

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[Edinburgh, May 2006]

MCA - Why should we do it...

- We will see all sorts of impacts across alternatives, cf. the indicator list
- We must be able to compare alternatives and evaluate e.g. a difference between two optional FWCs (a, b) like:

d(a,b) = 10€ + 1kg CO2 + 15 FTE employment

...enabling a consistent and transparent comparison among alternatives

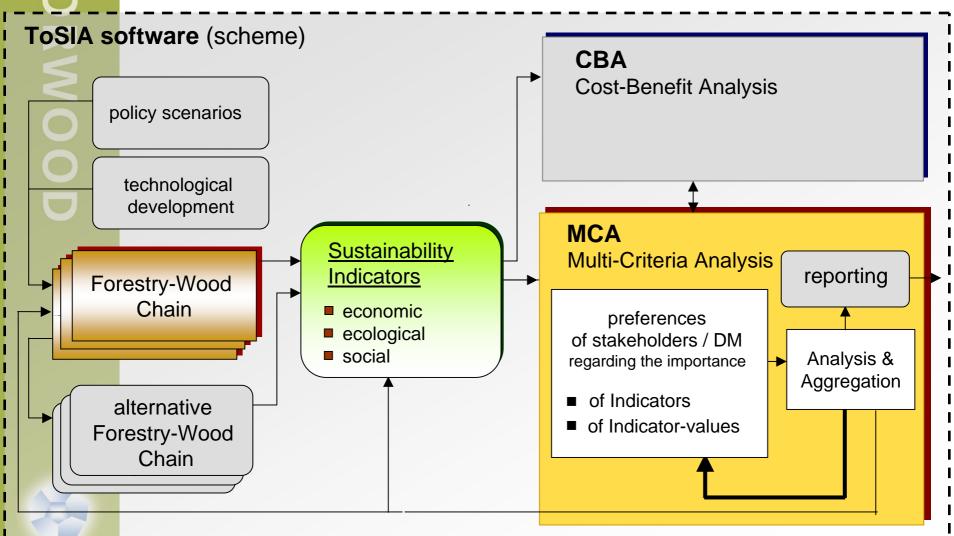


Brussels, 4 October 2007

2



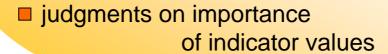
The process of MCA in EFORWOOD



The role of people in EFORWOOD MCA ...and of stakeholders in particular

stakeholders







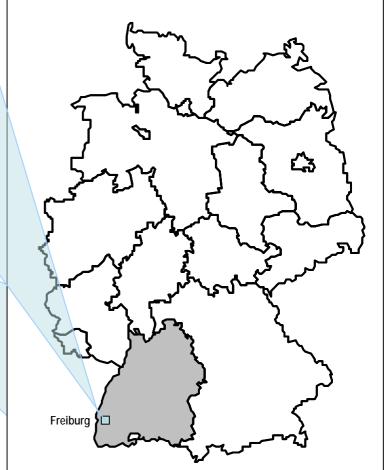


- (b) inclusion of multiple perspectives, values and interests
- (c) increase legitimacy



Stakeholder Workshop Baden-Württemberg 14 September 2007







13 stakeholder of regional FWC

Brussels, 4 October 2007 5

Objectives of the workshop

- testing MCA methods & software
- getting feedback
- learning about stakeholder perceptions
- developing the approach and the tool further

- with an informed audience
- in a real-life context
 - FWCs from Baden-Württemberg

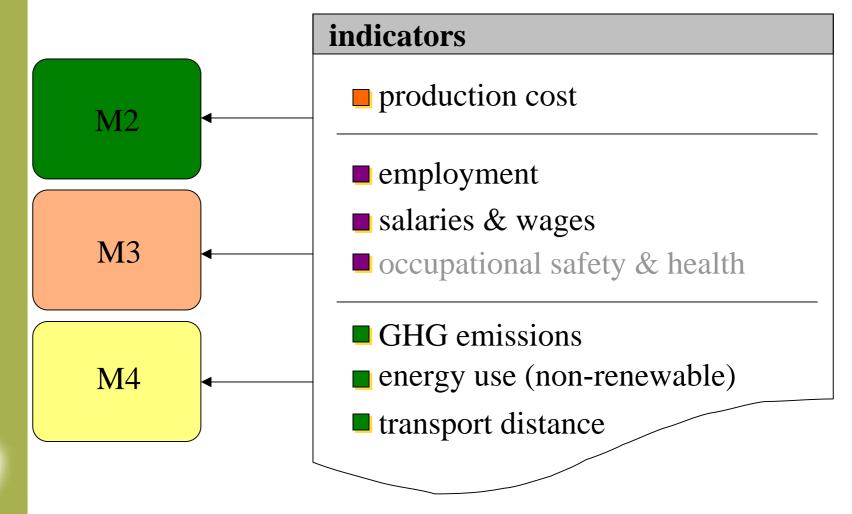


Alternative FWCs in BW

	FWC 1	FWC 2	FWC 3
Module 2 Forest management	natural regeneration	natural regeneration	planting
Module 3 forest to industry	motor-manual harvesting long logs	semi-mechanized harvesting short logs	fully-mechanized harvesting short logs
Module 4 industry	small local sawmill (log frame)	large regional sawmill (sawline)	large regional sawmill (sawline)



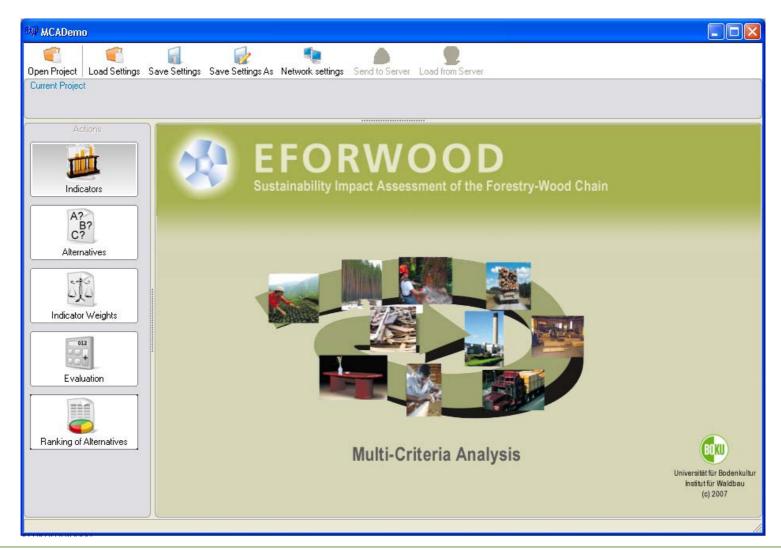
indicators for the BW spruce test chains





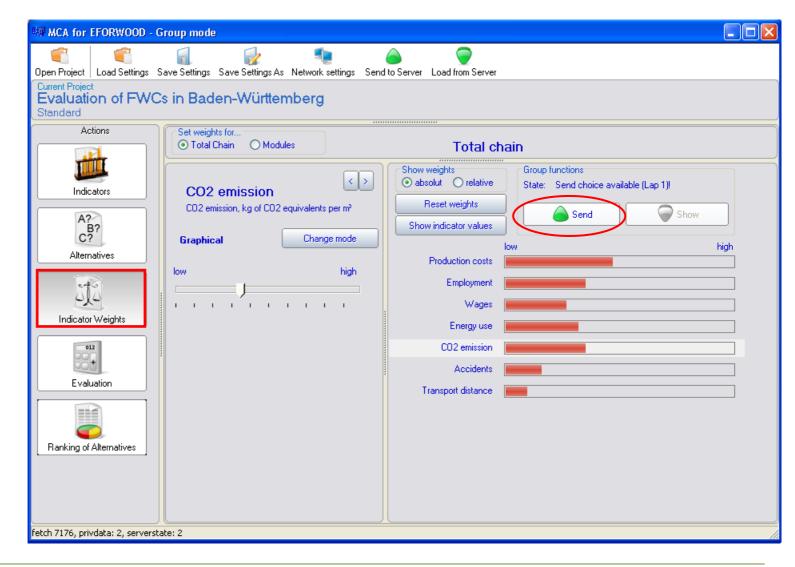
MCA software prototype

client-server architecture



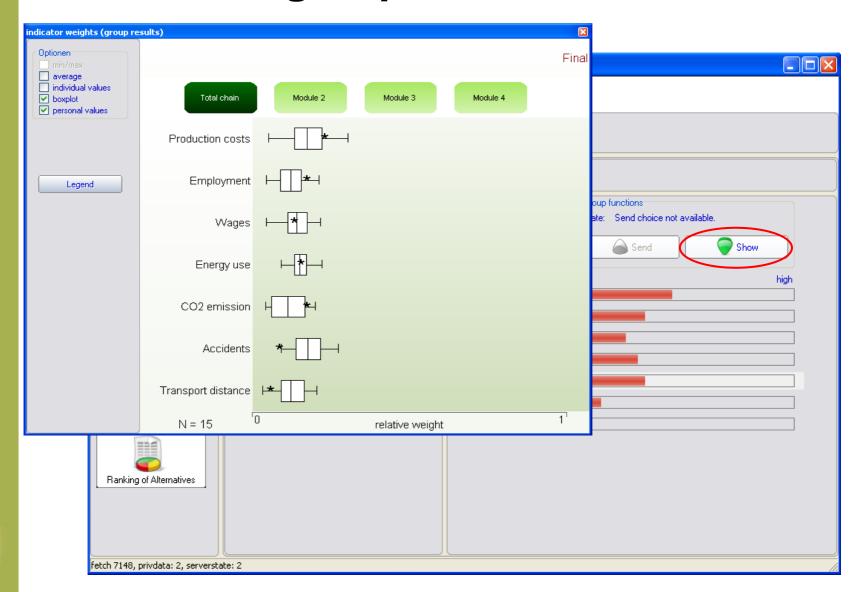


weighting of indicators



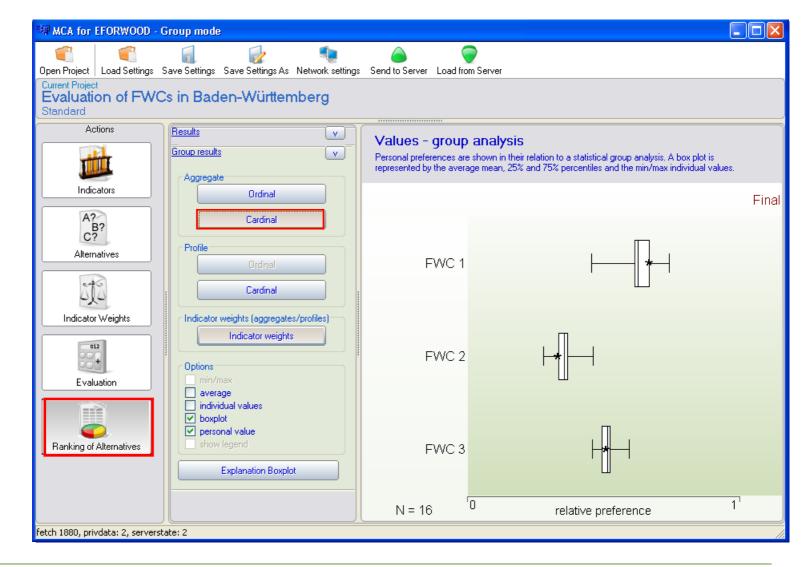


group results



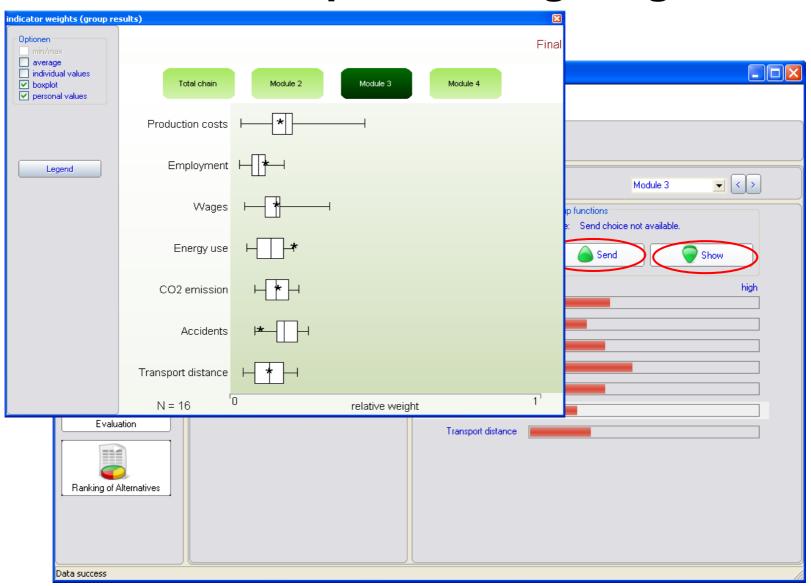


ranking of alternatives



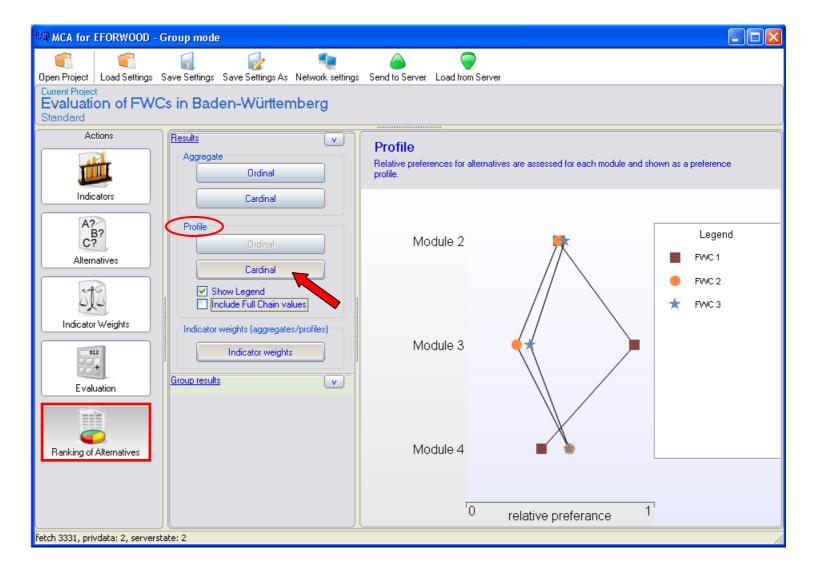


Module-specific weighting



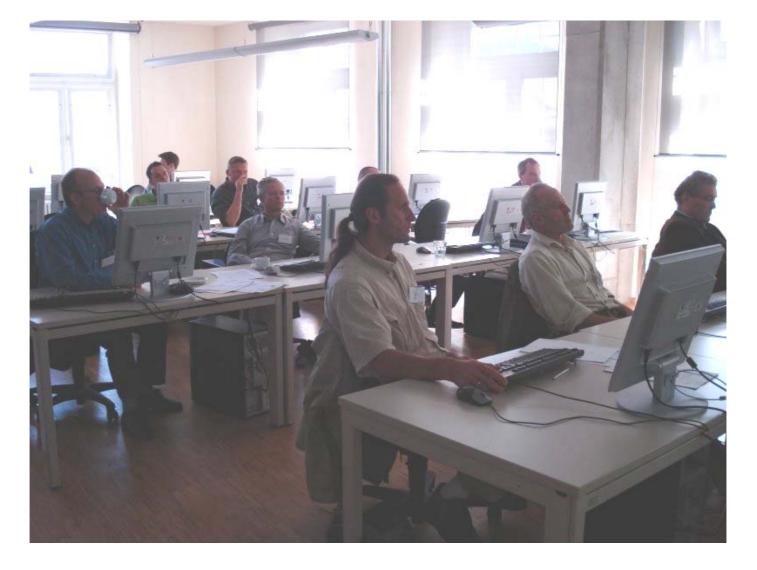


ranking profiles



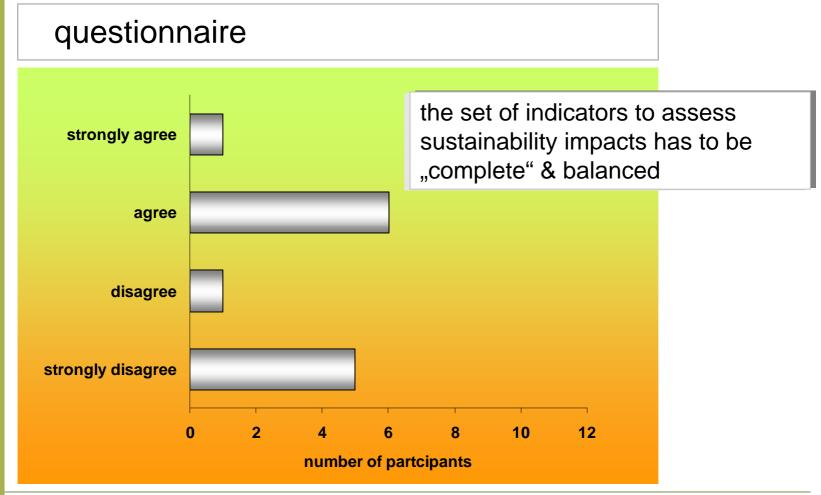


some feedback ...



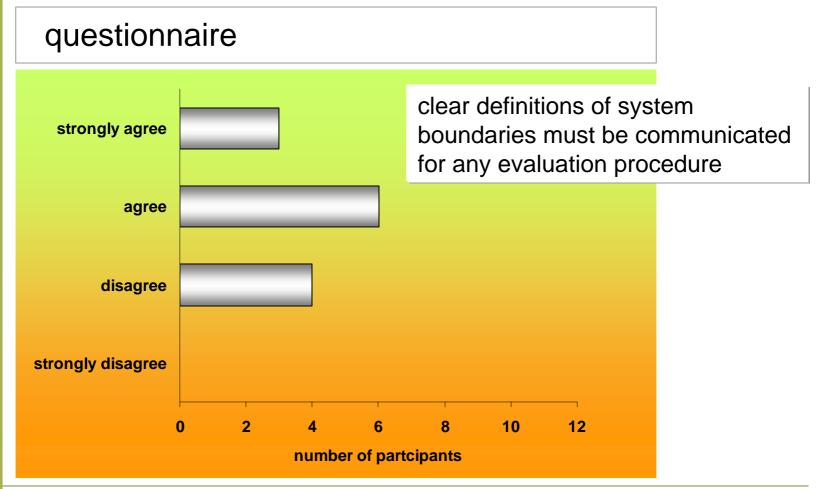


The used set of indicators was sufficient to evaluate the sustainability of FWCs



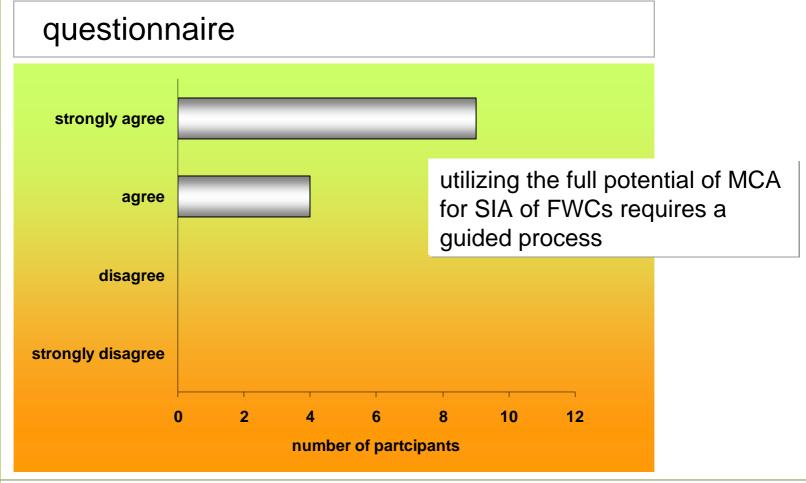


The presented alternative FWCs are relevant examples for Baden-Württemberg



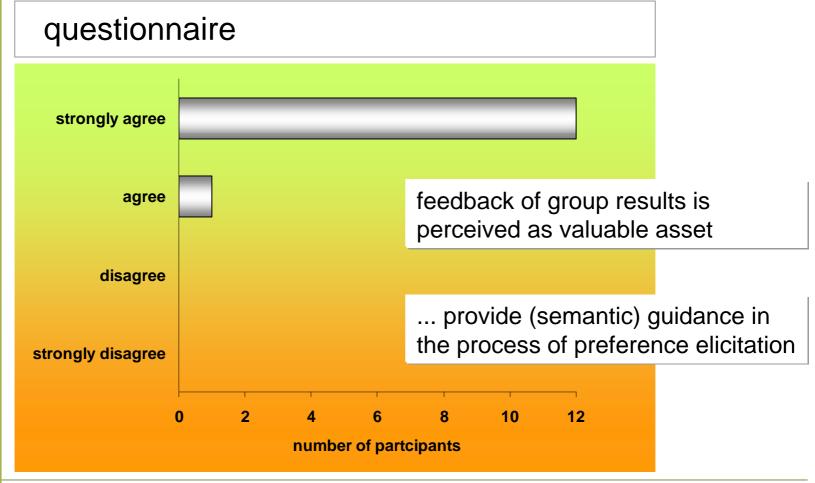


Applying MCA-methods in sustainability assessment is a useful approach





The software appears user-friendly and easy to use





conclusions

stakeholder acceptance of MCA as a tool for SIA will be enhanced by:

- avoiding blackboxes
 - e.g. too many fixed assumptions
- creating an informed decision environment
- providing decision support, not decision making







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Thank You!

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the ambitious participants of the BW workshop!

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Colleagues from ALUFR und FVA

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