





World

# Integration of Metomodels into FutMon

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# **Scenarios versus Predictions**









FUTMON

# Aim of modeling and benefit from FutMon

- calibration and adaptation of local models
- estimation of growth and trends for GHG reporting
- investigation of different forest management strategies
- management adaptation strategies
- estimation of risks and adaptation mechanism
- verification of sustainability
- combination with other data sources for extrapolation
  → FutMon provides the basic data for pan European modeling applications, witch are able to answer upcoming social questions.







Interaction of future climate and human needs



[Köhl et al. 2010 http://www.cbmjournal.com/content/5/1/8]







### maximising profit







### maximising net yield











## **Climate models:**











# Methodology of regionalization :









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# <u>Results:</u>

- meteo regionalization is possible
- Level II basis for transfer to Level 1, NFI ....
- meteo data is one main factor for extrapolation
- forest sites having specific local climate
- no general trend was observed, regional approaches are needed







**Outcome and findings:** 

- FutMon results can be used to facilitate international reporting needs and forest management decisions
- Climate data can be now easily integrated, but the needs for scenarios on future needs of the society on forest should be defined to support decision processes.