

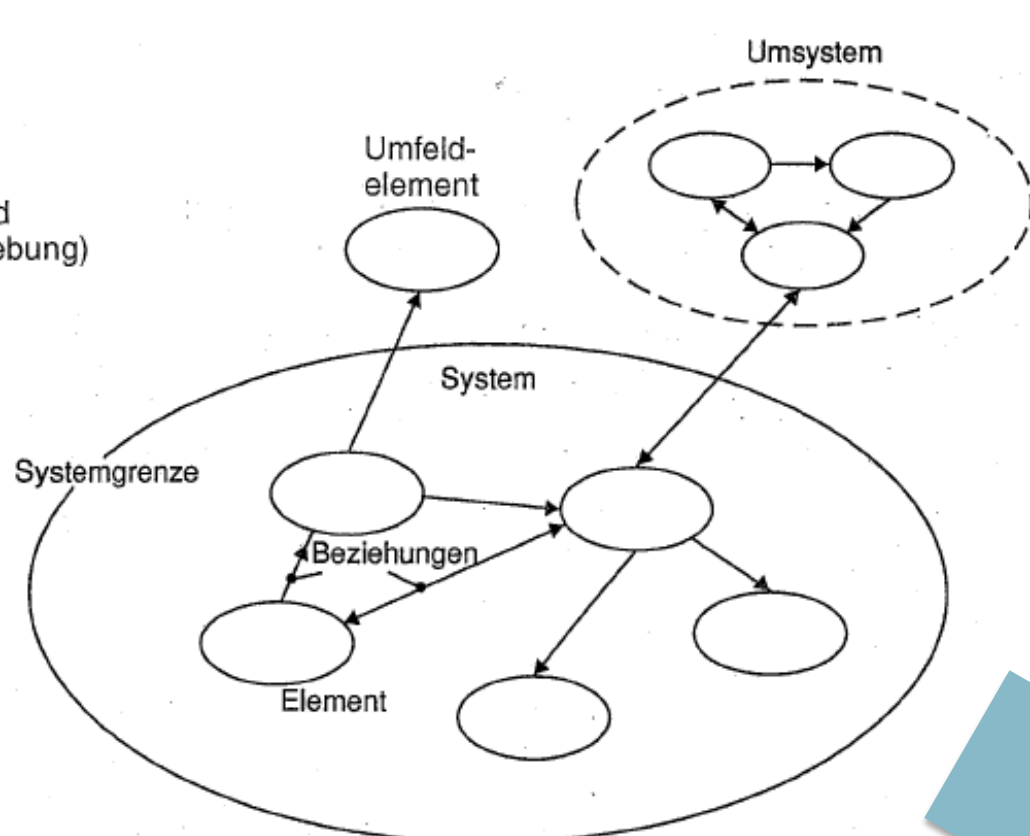
Simplicity in Decision Support?

Main approach

Diffusion Innovation Theory (Rogers 1995, after Lin und Chen 2012)

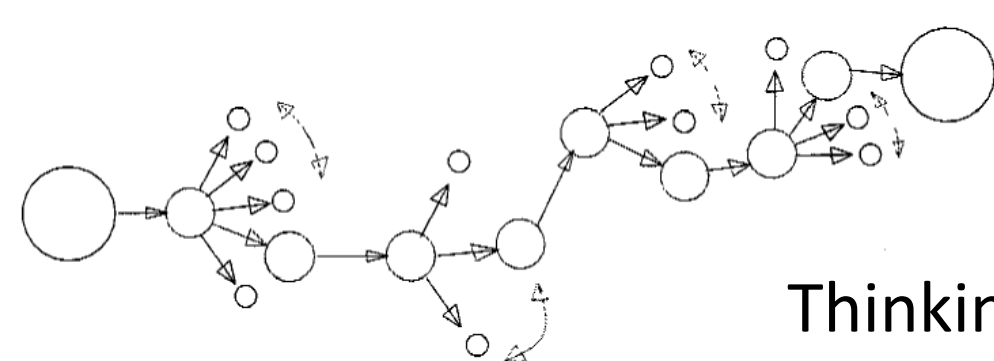
System Thinking

- Delimitation (what has to be considered, what not?), interface to other systems
- Main elements and interconnections (what is essential?)



Proceeding from the whole to the composite parts

- Maintain an overview, do not get lost in details
- Step-by-step with regard to complexity, learning process



Thinking in variations

- Do not only focus on the first solution
- Be creative and self-critical with regard to one's own solution
- Try to find the best possible solution

Relative advantage to the current situation?

Compatibility of the current structure?

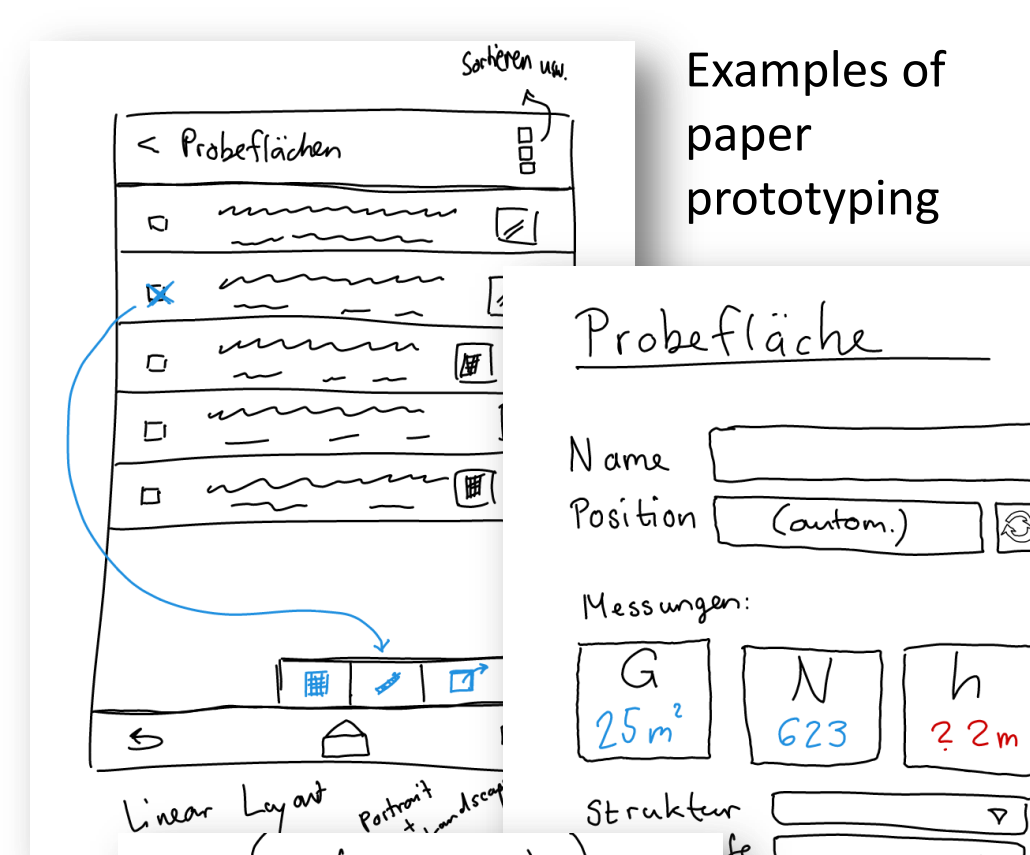
Degree of complexity and the corresponding perceived difficulty of using the new technique?

Trailability before purchasing?

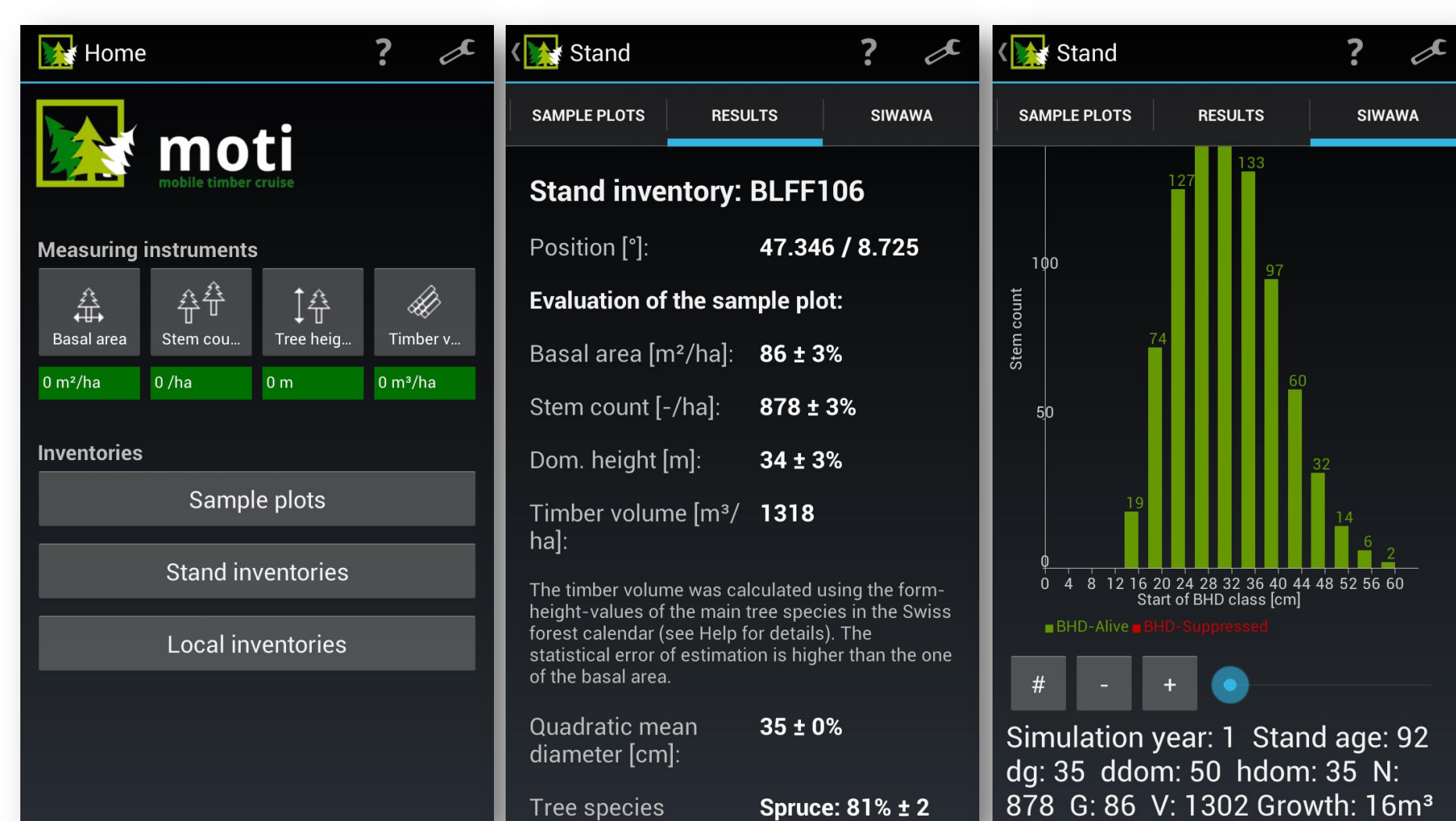
Degree of observability with respect to the recognition of the consequences for the introduction of a new technology?

Development process:

- Step-by-step with increasing formalism and functionalities: Brain-storming (e.g., on white board) > paper prototyping > modelling techniques with simple symbolism (e.g., data flow diagram, flow chart) > UML (e.g., activity diagram, class diagram) > test and demo prototype > consolidation
- Developer team with >= 5 members to mix skills, competencies and points of view (background, languages)
- Stakeholder involvement from the beginning on a regular basis



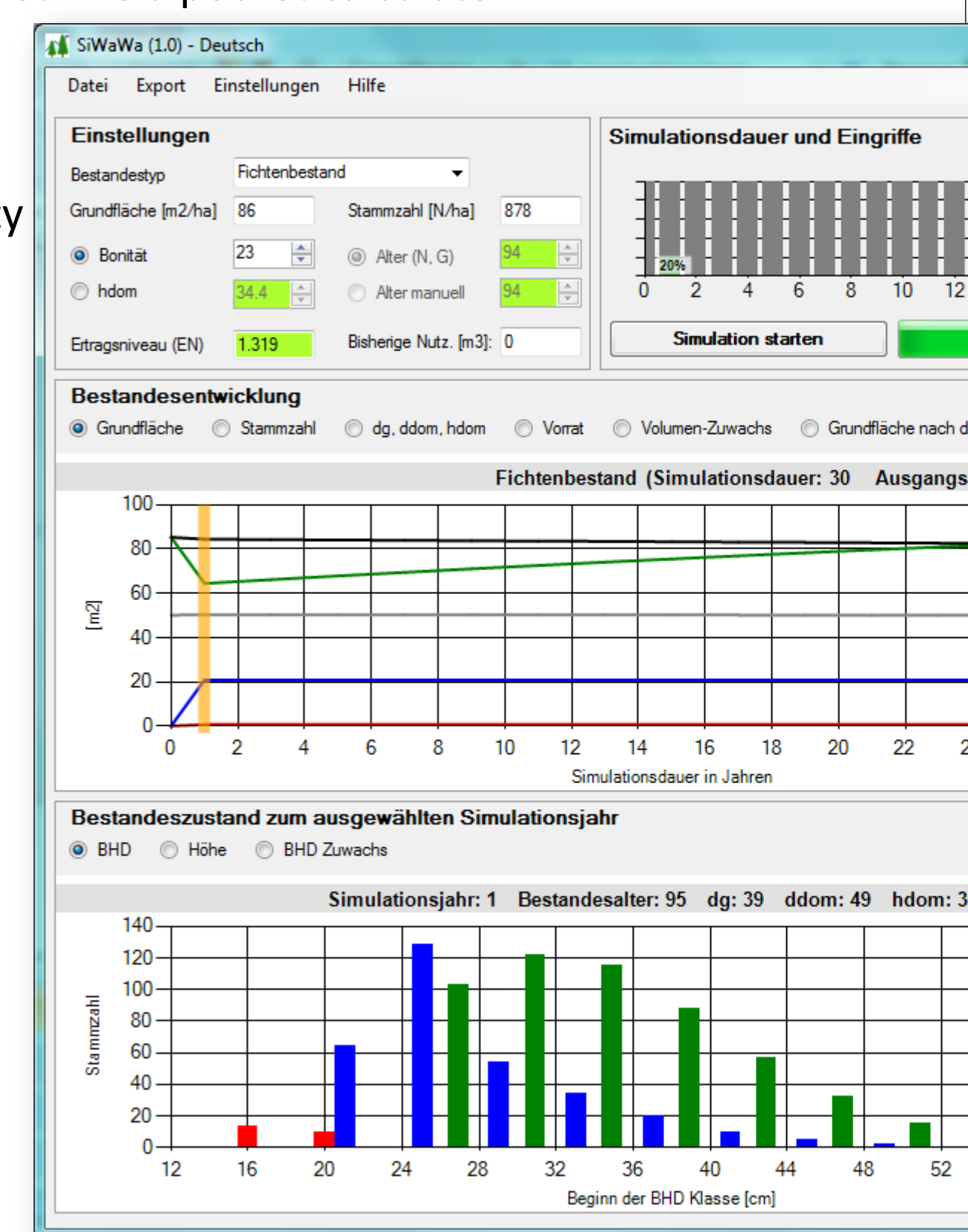
Toolbox for sustainable management of forest ecosystems



Obtain valuable information to support silvicultural decision with a few clicks

Single user interface designed like a pocket calculator.

All main functionalities are directly visible. Simulations are performed within a second > possibility to "play" with the model.



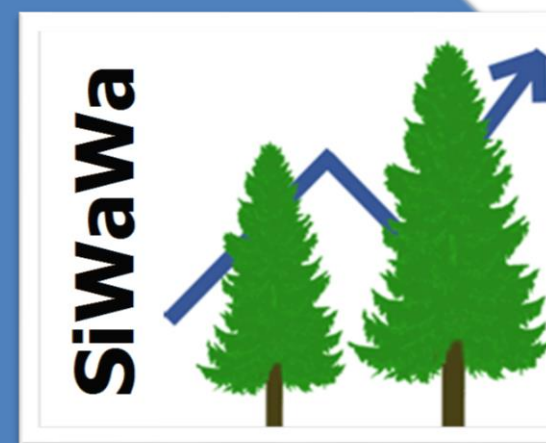
Silviculture



ForestGlass: Context-based decision support in the forest

SiWaWa:

Forest growth simulation model, which fits to the specificities of single stands based on little and easy to obtain data



Forest growth

Forest inventory

Moti:

Takes advantage of Smartphone technology to obtain in situ stand information



TBk:

Toolkit to elaborate stand maps from remote sensing data



Forest planning

WIS.2:

DSS for monitoring and ensuring the sustainable, goal-oriented and efficient management of forest ecosystems

Importance of well-structured and well-documented outputs with a clear added-value for the management

