



Marteloscopes and the I+ software tool for silviculture training – initiatives in North Rhine-Westphalia, Germany

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Overview

- Martelescope developments in Germany at the sub-national level
- Spin-off project INTEGRATE – silviculture in North Rhine-Westphalia, Germany
- Marteloscope exercise in Bonn, Germany



INTEGRATE in Germany – sub-national level

- Establishment of an INTEGRATE national focal point with the State of North Rhine-Westphalia for the German States at the end of 2017
- Coordination function for INTEGRATE activities at the sub-national level



INTEGRATE in Germany – sub-national level

- Initial survey of INTEGRATE activities in the German States (without universities) in February, 2018
 - Many German States, including States with significant forest area, apply the INTEGRATE concept / marteloscope method (Baden-Wuerttemberg, Bavaria, Brandenburg, North Rhine-Westphalia, Rhineland-Palatinate) (currently 20 marteloscope sites, further are planned)
 - The German State Berlin is planning to apply the concept
 - Some German States do not apply the INTEGRATE concept / marteloscope method (e. g. partner States of the Northwest German Forest Research Institute) (maybe universities)

German States applying the INTEGRATE concept / marteloscope method





INTEGRATE in Germany – sub-national level

- Initial survey of INTEGRATE activities in the German States in February, 2018
 - General interest in the initial focus of the INTEGRATE concept concerning communication in the area of forest utilization (wood) and forest conservation (habitat), in this context suggestions to simplify the habitat value (qualitative classes instead of points)
 - However, stronger interest in applying the marteloscope method in the context of silviculture training and further developing the method for this purpose, in terms of developing training manuals and scenarios, and adding forest growth modelling, in particular



INTEGRATE in Germany – sub-national level

- Initial survey of INTEGRATE activities in the German States in February, 2018
 - Interest in extending from mostly State forest application to also privately owned forests
 - Interest in continued communication and joined activities and projects



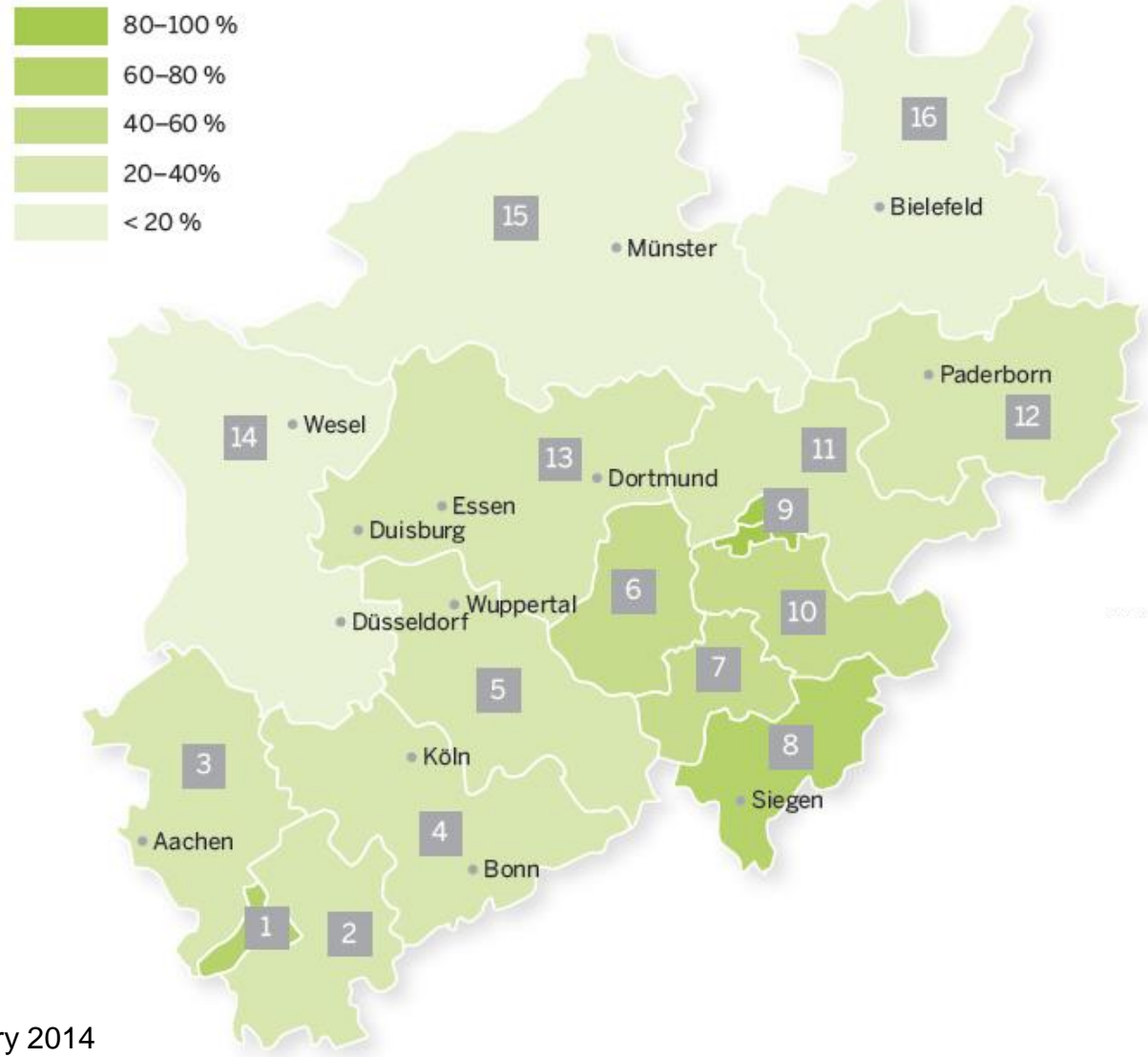
Spin-off project INTEGRATE – silviculture

- INTEGRATE spin-off project (small scale) in the German State North Rhine-Westphalia on adding silviculture features and developing a silviculture training manual in preparation
- Goal to be a part of the new State silviculture program and silviculture training program currently under development



NRW Forests

- 935.000 ha forest area (27 % of land area, 2/3 privately owned)
- High level of population (18 Mio.)





Example of forest landscape near Bonn, source of picture: Schönemund



Spin-off project INTEGRATE – silviculture

- Main work packages
 - Adding silviculture features to the INTEGRATE software
 - Tree species suitable for forest site (maybe be a variation in the context of climate change)?
 - Tree species relevant of stand mixture (rare)?
 - Tree relevant for stand stability?
 - Tree relevant for stand regeneration?
 - Maybe also tree vitality
 - Pragmatic approach with a basic classification of the trees and the surrounding area with the establishment of the marteloscope (e. g. basic mapping of natural regeneration)



Spin-off project INTEGRATE – silviculture

- Main work packages
 - Developing a silviculture training manual (outlining different forms of implementation and providing a framework for implementation with first, most important practical examples)
 - Typical exercises (e. g. thinning with economic focus, ecological focus, balanced multi-functional approach or special consideration of climate change adaptation)
 - Educational approaches (use of the software (Trainer and Manager) and different scenarios, supporting documentation and on-site support during exercises)



Spin-off project INTEGRATE – silviculture

- Main work packages
 - Developing a silviculture training manual (outlining different forms of implementation and providing a framework for implementation with first, most important practical examples)
 - Feedback routines (reports, illustrations, group feedback and individual feedback, modern visualization like 3 D / VR display incl. forest growth modelling)



Source of picture: RIF



Spin-off project INTEGRATE – silviculture

- Work process
 - Draft working paper
 - Workshop with silviculture and silviculture training experts planned for summer 2018 (end of June or beginning of July) in Bonn (German language)
 - Workshop with experts in the area of applying IT to silviculture and silviculture training planned (German language)
 - Interest in the exchange of experiences and cooperation in potential follow-up projects (within Germany, within the EU)
 - The software developments will also be available to the INTEGRATE network (modular approach with optional use)



Marteloscope exercise in Bonn, Germany

- 2 days marteloscope exercise with foresters and nature conservation representatives in Bonn, Germany, in November 2017
- Scientific support by WSL Switzerland and the University of Freiburg, Germany
- Report for INTEGRATE / INFORMAR website in preparation





Thank you very much for your attention!