



EUROPEAN FOREST
INSTITUTE

Marteloscope Manager Workshop

Questionnaire replies

Date: 25 – 27.04.2018

Place: Steigerwaldzentrum, Handthal Germany

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Marteloscopes



Q1: What type of activities have been implemented and/or are planned in your local Marteloscopes?

- Activities implemented

- ✓ Silvicultural training for different groups (forest managers, forest administrations, nature conservation, university students, scientists), including mixed groups
- ✓ Targeted exercises: e.g. formulation of silvicultural aims; tree marking; estimation of main tree parameters; quality distribution/classification
- ✓ Tree marking behavior of forest technicians (before and after teaching units on nature and species conservation/habitat structures)

- Activities planned

- ✓ Silviculture training courses (management concepts, forest biodiversity etc.) for forest nature conservation, forest practice, in education (incl. managers, technicians, associations (e.g. ProSilva), universities, schools); Training for forest managers for forest enterprises (tree marking, parameter estimation, identification of tree microhabitats)
- ✓ Explaining the integrative forest management approach for implementing e.g. conservation-sound beech forest management (practice manual “nature conservation in beech forests”) to scientists, forest owners, conservationists, foresters, students, expert groups
- ✓ Marteloscope use as field research plot (tree microhabitat development, testing e.g. regeneration estimation protocols for simulations etc.)

- Make Marteloscope exercises part of regular training events/training curricula

- Target groups

- ✓ forest managers/administrations, nature conservation managers/administrations, scientists, special training for urban/metropolitan foresters, university students, students of forest schools, forest technicians, public/private schools

- Number of participants

- ✓ Small groups (4+ targeted exercises) to large groups 40+ (rather excursions)

Q2: If events have taken place what were your most striking observations? What was the feedback from the participants?

- Exercise feedback mostly positive; often announcement for further visits/new groups or additional exercise aspects
- Good to have concrete figures in the field (volume, economic return etc.)
 - ✓ Participants can easily calibrate themselves on their skills (especially students)
 - ✓ Allows forest partitioners to discuss based on concrete figures („foresters view“ or „forstlicher Götterblick“ is backed/revised)
- Evolving discussions from training exercises are most valuable result
 - ✓ Exercises are starting point for more holistic discussions on forest topics
 - ✓ Visualization of different choices/views is highly interesting and sometimes confronting
 - ✓ Visitors discuss intensively, unexcited and factual despite eventually opposing views
- Valuable input from participants for further developing Marteloscopes and software tools
- Effects of virtual interventions can be shown in a Marteloscope and stimulate discussions on a wide range of topics
- Participants of exercises develop a broader/informed view to forests management and conservation
- Quick learning curve for both understanding the role of tree microhabitats and identifying them
- Nature conservation managers may remove more tree volume than foresters (experience in estimating tree volumes and quality classes)

Q3: Have you visited other Marteloscopes and/or taken part/organised events there?

- Visited Marteloscopes (incl. cross border)
 - ✓ For research activities
 - ✓ In the course of exchange programmes or excursions
 - ✓ For training and education
 - ✓ Scoping missions for establishing own sites
- Visited Marteloscopes outside projects (Integrate+, Informar)
 - ✓ Numerous countries and institutions
- Marteloscope events/cooperation
 - ✓ Support in Marteloscope/demo site establishment
 - ✓ Joint event planning (e.g. Slovenia/Belgium)

Q4: Have Marteloscopes been used besides training and education also for other purposes e.g. research or other applications?

- Research in Marteloscopes
 - ✓ Thesis implementation and corresponding scientific publications
 - ✓ Impact of preferences and expertise on decision-making, learning-effects, use of new technologies
 - ✓ Use as input for simulation experiments
 - ✓ Data source for research on tree microhabitat structures, their development and spatial distribution
- Future plans
 - ✓ adapting existing “research forest plots” also to the Marteloscope design (multiple use of sites; cost effectiveness)

Q5: What further applications do you see for Marteloscopes (please keep in mind not only local Marteloscopes but also the growing European Marteloscope network)?

- Training and education
 - ✓ Mixed group exercises with participants having varying backgrounds/expertise
 - ✓ Development of targeted training packages
 - ✓ Use for other relevant training purposes/topics (silviculture , climate change impacts, stand stability etc.)
 - ✓ Estimating future stand development following exercises (economic, ecological etc.)
 - ✓ Marteloscopes as valuable element of conveying knowledge of wood use, integrative forest management, biodiversity towards journalists, laypeople, general public
- Research
 - ✓ If Marteloscopes are kept (and regularly re-measured) they can serve science as permanent observation plots (structural development and stand dynamics (tree, stand, microhabitats)
 - ✓ Potential for modelling other ecosystem services (CO₂ storage, water catchment areas and water quality, air quality)
 - ✓ Assess variation of tree microhabitats in different biogeographic regions, forest types and management systems
 - ✓ Estimating financial impacts for forest enterprises if set (or targeted) conservation goals are to be consequently implemented
- Marteloscope network overview: listing in more detail varying forest aspects allowing to better select forest types/sites for training (especially considering training away from own sites)

Q6: What do you see as long term goals for your Marteloscope(s) or Marteloscopes in general?

- Training and education to remain the emphasis of Marteloscopes
- Embed Marteloscope sites with organisations for continuous use
- Update data in regular intervals to ensure long term use
- Continue to expand the site network in order to capture a more broad range of forest types and management regimes
- Coupling training and research on a common object (Marteloscope)
- Use Marteloscope sites for research and monitoring
 - ✓ Modelling tree microhabitats development, silviculture modelling (impacts of interventions), tree selection behaviour of various user groups
 - ✓ Use for long-term monitoring activities
- Convey a better understanding of the multitude of services of forests and the challenge of decision making in practical forestry
- They are brilliant to teach the next generation foresters and natural resource managers
- Visit of Marteloscopes as starting point for discussions between nature conservation bodies and foresters(state and private)





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Thank you!

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