

Human health benefits of walking forests trails – results from a field experiment in a nature park



LIFE SCIENCES, VIENNA

Arne Arnberger^{1*}, Beatrix Schiesser¹, Renate Eder¹, Claudia Weidl¹, Dominik Mühlberger²

¹Institute of Landscape Development, Recreation and Conservation Planning, Department of Spatial, Landscape and Infrastructural Sciences, University of Natural Resources and Life Sciences, Vienna, Vienna, Austria; arne.arnberger@boku.ac.at

²Austrian Research Center for Forests (BFW), Vienna, Austria

Mit Unterstützung von Bund, Ländern und Europäischer Union







The 3 Trails investigated in the Geras Nature Park (Lower Austria)







Are there differences in perceived and measured health effects?





Methodology



UNIVERSITY OF NATURAL RESOURCES AND LIFE SCIENCES, VIENNA

- Participants: N = 27 (Volunteers, 14 females; > 18 yrs.)
- 1.5-hr. walks in 2020 and 2021 including measurements
- Standardized measurements (before the walk, during, after the walk)
 - Cognitive performance test
 - Well-being, PRS, perceived health-effects (stress reduction...)
 - Pulse and blood pressure
 - Noise, weather conditions, visitor counting



Results



UNIVERSITY OF NATURAL RESOURCES AND

LIFE SCIENCES, VIENNA

Walks increased perceived and measured health benefits

Some differences in health benefits between the walks in different environments:

Health Indicators			
Increase in cognitive performance	1rst	2nd	3rd
Perceived stress reduction	2nd	1rst	2nd
Recreational suitability	3rd	1rst	2nd
Pulse Blood pressure	3rd 1rst	1rst 2nd	2nd 2nd