

List of Publications 2016

■ EFi Technical Reports

Verkerk P.J., Schelhaas M.J., Immonen V., Hengeveld G., Kiljunen J., Lindner M., Nabuurs G.J., Suominen T. and Zudin S. Manual for the European Forest Information Scenario model (EFISCEN 4.1). EFi Technical Report 99, 2016.

■ EFi From Science to Policy

Wolfslehner, B., Linser, S., Pülzl, H., Bastrup-Birk, A., Camia, A. and Marchetti, M. Forest bioeconomy - a new scope for sustainability indicators. *From Science to Policy* 4, 2016.

Berndes, G., Abt, B., Asikainen, A., Cowie, A., Dale, V., Egnell, G., Lindner, M., Marelli, L., Paré, D., Pingoud, K. and Yeh, S. Forest biomass, carbon neutrality and climate change mitigation *From Science to Policy* 3, 2016.

■ ThinkForest briefs

Berndes, G., Abt, B., Asikainen, A., Cowie, A., Dale, V., Egnell, G., Lindner, M., Marelli, L., Paré, D., Pingoud, K. and Yeh, S. Forest biomass, carbon neutrality and climate change mitigation.

■ Peer-reviewed publications

Bechini, L., Koenderink, N., Berge, H.F.M. ten, Corre, W., Evert, F.K. van, Facchi, A., Gharsallah, O., Gorriz-Mifsud, E., Grignani, C., Herder, M. den, Hily, Y., Justes, E., Lepennetier, A., Moretti, B., Newell-Price, P., Nonini, L., Oberti, R., Ramonteau, S., Rois, M., Ruijter, F. de, Sacco, D., Schuler, P.M., Willems, D., Zandstra, A. and Top, J. Improving access to research outcomes for innovation in agriculture and forestry: the VALERIE project. *Italian Journal of Agronomy* 11. doi: 10.4081/ija.2016.756

Borrass, L., Kleinschmit, D. and Winkel, G. The "German model" of integrative multifunctional forest management. Analysing the emergence and political evolution of a forest management concept. *Forest Policy and Economics*. doi: 10.1016/j.forpol.2016.06.028

den Herder, M., Helle, S., Niemelä, P., Henttonen, H. and Helle, T. Large herbivore grazing limits small-mammal densities in Finnish Lapland *Annales Zoologici Fennici* 53: 154–164.

den Herder, M., Kurttila, M., Leskinen, P., Lindner, M., Haatanen, A., Sironen, S., Salminen, O., Juusti, V. and Holma, A. Is enhanced biodiversity protection conflicting with ambitious bioenergy targets in eastern Finland? *Journal of Environmental Management* 187: 54–62. doi: 10.1016/j.jenvman.2016.10.065

Górriz-Mifsud, E., Secco, L. and Pisani, E. Exploring the interlinkages between Governance and Social Capital: a dynamic model for forestry. *Forest Policy and Economics* 65: 25–36. doi: 10.1016/j.forpol.2016.01.006

Górriz-Mifsud, E., Varela, E., Piqué, M. and Prokofieva, I. Demand and supply of ecosystem services in a Mediterranean forest: Computing payment boundaries. *Ecosystem Services* 17: 53–63. doi: 10.1016/j.ecoser.2015.11.006

Gosme, M., Amaral, J., Borek, R., Burgess, P., Dupraz, C., Ferreira, N., Freese, D., González, P., Hartel, T., Lamersdorf, N., Lawson, G., Lojka, B., Meziere, D., Moreno, G., Mosquera, R., Palma, J., Pantera, A., Paris, P., Pisanelli, A., Plieninger, T., Reubens, B., Rois, M., Rosati, A., Smith, J. and Vityi, A. (eds). 3rd European Agroforestry Conference. Celebrating 20 years of Agroforestry Research in Europe. Book of Abstracts. Montpellier 23–25 May 2016. https://euraf.isa.utl.pt/conferences/III_EURAFConference

Hetemäki, L. and Hurmekoski, E. Forest products markets under change: Review and research implications. *Current Forestry Reports* 2: 177–188. doi: 10.1007/s40725-016-0042-z

Kuemmerle, T., Levers, C., Erb, K., Estel, S., Jepsen, M.R., Müller, D., Plutzer, C., Stürck, J., Verkerk, P.J., Verburg, P.H. and Reenberg, A. Hotspots of land use change in Europe. *Environmental Research Letters* 11. doi: 10.1088/1748-9326/11/6/064020

Leipold, S. and Winkel, G. Discursive Agency: (Re-) Conceptualising actors and practices in the analysis of discursive policy making. *Policy Studies Journal*. doi: 10.1111/psj.12172/abstract

Leipold, S. and Winkel, G. Divide and Conquer. Discursive Agency in the politics of illegal logging in the United States. *Global Environmental Change* 36: 35–45. doi: 10.1016/j.gloenvcha.2015.11.006

Leipold, S., Sotirov, M., Frei, T. and Winkel, G. Protecting "First World" markets and "Third World" nature: The politics of illegal logging in Australia, the European Union and the United States. *Global Environmental Change* 39: 294–304. doi: 10.1016/j.gloenvcha.2016.06.005

Maier, C. and Winkel, G. Implementing nature conservation through integrated forest management: a street-level bureaucracy perspective on the German public forest sector *Forest Policy and Economics*. doi: 10.1016/j.forpol.2016.12.015

Sotirov, M. and Winkel, G. Toward a cognitive theory of shifting coalitions and policy change: Linking the advocacy coalition framework and cultural theory. *Policy Sciences* 49: 125–154. doi: 10.1007/s11077-015-9235-8

Suominen, T., Kunttu, J., Tuomasjukka, D., Jasinevičius, G. and Lindner, M. Trade-offs in sustainability impacts of introducing cascade use of wood. *Scandinavian Journal of Forest Research*. Submitted.

Tuomasjukka, D., Martire, S., Lindner, M., Athanassiadis, D., Kühmaier, M., Tumajer, J., Vis, M., Spinelli, R., Dees, M., Prinz, R., Routa, J. and Asikainen, A. Sustainability impacts of increased forest biomass feedstock supply – a comparative assessment of technological solutions. *International Journal of Forest Engineering*. Submitted.

Tuomasjukka, D., Athanassiadis, D. and Vis, M. Threefold Sustainability Impact Assessment method expansion for renewable energy value chains. *International Journal of Forest Engineering*. Submitted.

- Varela, E., Jacobsen, J.B. and Mavsar, R. Social demand for multiple benefits provided by Aleppo pine forest management in Catalonia, Spain. *Regional Environmental Change* 1–12. doi: 10.1007/s10113-016-1038-8
- Verkerk, P.J., Lindner, M., Pérez-Soba, M., Paterson, J.S., Helming, J., Verburg, P.H., Kuemmerle, T., Lotze-Campen, H., Moiseyev, A., Müller, D., Popp, A., Schulp, C.J.E., Stürck, J., Tabeau, A., Wolfslehner, B. and van der Zanden, E.H. Identifying pathways to visions of future land use in Europe. *Regional Environmental Change* 1–14. doi: 10.1007/s10113-016-1055-7
- Vilén, T., Cienciala, E., Schelhaas, M. J., Verkerk, P. J., Lindner, M. and Peltola, H. Increasing carbon sinks in European forests: effects of afforestation and changes in mean growing stock volume. *Forestry* 82–90. doi: 10.1093/forestry/cpv034
- Winkel, G. and Derks, J. The Nature of Brexit. How the UK exiting the European Union could affect European forest and (forest related) environmental policy. *Forest Policy and Economics* 70 (C): 124–127. doi: 10.1016/j.forpol.2016.06.007
- Winkel, G. and Leipold, S. Demolishing dikes: Multiple streams and policy discourse analysis. *Policy Studies Journal* 44(1): 108–129. doi: 10.1111/psj.12136
- Winkel, G. and Sotirov, M. Whose integration is this? European forest policy between the gospel of coordination, institutional competition, and new spirits of integration. *Environment and Planning C: Government and Policy* 34(3): 496–514. doi: 10.1068/c1356j
- **Other peer-reviewed publications**
- Bastrup-Birk, A. and Schuck, A. European databases on invasive alien species. In: *Introduced tree species in European forests: opportunities and challenges. In Focus - European Forest Institute*. Pp. 136–147
- Bastrup-Birk, A., Reker, J.B., Zal, N., Romao, C., Cugny-Seguin, M., Moffat, A.J., Herkendell, J., Abdul Malak, D., Tomé, M., Barredo, J.I., Loeffler, P., Ciccarese, L., Nabuurs, G.J., Van Brusselen, J., Linser, S., Uhel, R., Meiner, A., Garcia-Feced, C., Aggestam, F., Barbati, A., Camia, A., Caudullo, G., Chirici, G., Corona, P., Delbaere, B., de Rigo, D., Durrant, T., Eggers, J., Elmauer, T., Estreguil, C., Jones-Walters, L., Kauhanen, E., Konijnendijk van den Bosch, C., Kraus, D., Larsson, T.B., Lindner, M., Lombardi, F., Marchetti, M., Mavsar, R., Pülzl, H., Raitio, H., Rousi, M., San-Miguel-Ayanz, J., Schelhaas, M.J., Schuck, A., Shannon, M. and Zizenis, M. *European Forest Ecosystems – State and Trends*. EEA Report No. 5/2016.
- Other scientific publications
- Arifi, B., Winkel, G. and Ruppert-Winkel, C. The role of landscape in wind energy conflicts: between cultural myths and interests. In: Bieling, C. and Plieninger, T. (eds.) *The Science and Practice of Landscape Stewardship*. Cambridge University Press. In print.
- Diez Iglesias, N. Adaptation of forest species to climate change analysis of the frequency and nature of health damage over the REINFFORCE arboreta. European Forest Institute. *European Forest Information SCENario model, version 4.1*
- Hetemäki, L., Kuuluvainen, J. and Toppinen, A. Future of forest-based sector – state of the art and research needs. *Festschrift, in honor of Ole Hofstadt and Birger Solberg*. Pp. 59–74. <http://www.umb.no/statisk/ina/publikasjoner/fagrappport/if36.pdf>
- Hurmekoski, E. Long-term outlook for wood construction in Europe. *Dissertationes Forestales* 211. doi:10.14214/df.211
- Kraus, D. and Schuck, A. Mikrohabitatstrukturen im Wald: Ein Schlüssel zur Erhaltung von gefährdeten Arten. *Anliegen Natur* 38(1): 99–101.
- Kraus, D., Bütler, R., Krumm, F., Lachat, T., Larrieu, L., Mergner, U., Paillet, Y., Rydkvist, T., Schuck, A., and Winter, S. *Catalogue of tree microhabitats – Reference field list. Integrate+ Technical Paper 13*. Also available in CZ, DE, DK, ES, FR, IT and SI.
- Krumm, F., Vitková, L., Green, T. and Schuck, A. A forest pest is not always a forest pest. In-Tree policy brief. http://in-tree.org/uploads/images/conference/Brussels%20event/Policy_briefing_HighRes.pdf
- Lindner, M., Mohren, F., Nabuurs, G.-J. and Verkerk, P.J. Europe's forests mitigated climate warming since the 1950's and could continue to do so in the future! *Science eLetter*. science.sciencemag.org/content/351/6273/597.e-letters
- Lupi, E. Performance of Douglas-fir (*Pseudotsuga menziesii* (Mirb.) Franco) provenances from California in France and other Atlantic Europe regions; opportunities and risks in a changing climate context.
- Mauri Ortuno, E. Pine wood nematode foci outside of continental Portugal. Map.
- Nyssen, B., Schmidt, U.E., Muys, B., van der Lei, P.B. and Pyttel, P. The history of introduced tree species in Europe in a nutshell. Chapter on *Introduced tree species in European forests: challenges and opportunities*. Pp. 44–54.
- Schelhaas, M.J. and Verkerk, P.J. Description of matrix transitions in EFISCEN.
- Schelhaas, M.J., Nabuurs, G.J. and Verkerk, P.J. Description of the modelling approach of the European Forest Information Scenario model (EFISCEN 4.1). *EFISCEN model documentation*<https://github.com/EuropeanForestInstitute/efiscen>
- Schelhaas, M.J., Verkerk, P.J. and Zudin S. *Manual for matrix initialisation using P_2009*.
- Tegegne, Y.T. *FLEGT and REDD+ synergies and impacts in the Congo Basin: lessons for global forest governance mechanisms*. PhD Thesis.

■ Consultancy reports and working papers

Cashore, B., Leipold, S., Cerutti, P.O., Bueno, G., Carodenuto, S., Chen, X., De Jong, W., Denvir, A., Hansen, C., Humphreys, D., McGinley, K., Nathan, I., Overdeest, C., Rodrigues, R.J., Sotirov, M., Stone, M., Tegegne, Y.T., Visseren-Hamakers, I., Winkel, G., Yemelin, V., and Zeitlin, J. Global Governance Approaches to Addressing Illegal Logging: Uptake and Lessons Learned. In: Kleinschmit, D., Mansourian, S., Wildburger, C. and Purrel, A. (eds.): Illegal logging and related timber trade – dimensions, drivers, impacts and responses. A global scientific rapid response assessment report IUFRO World Series 35 119-131.

■ Popular articles

Hetemäki, L. Onko Metsäbioenergielle realistisia vaihtoehtoja? Maaseudun Tulevaisuus, Yliökirjoitus, 6.5.2016

Hurmekoski, E. and Hetemäki, L. Puurakentamisen tiellä on yhä esteitä Helsingin Sanomat, Vieraskynä 27.6.2016

Hurmekoski, E. Miltä näyttää puurakentamisen tulevaisuus Euroopassa? Puumies 2/2016: 14–15.

Kulikova, E. EU-Russian-Eastern partnership common research priorities: synthesis of common research needs. Newsletter ERA-Net Sumforest. Pp. 4–5.

■ Professional articles in newspapers or magazine

Kraus, D., Mergner, U., Schuck, A., Krumm, F. and Haussmann, T. Integrate+: Wieviel Naturschutz kann der bewirtschaftete Wald leisten? Der Dauerwald – Zeitschrift für naturgemäße Waldwirtschaft. Ausgabe 54, August 2016. Pp. 33–38.

Kulikova, E. Европейский институт леса: вчера, сегодня, завтра / European Forest Institute: yesterday, today, tomorrow. Устойчивое лесопользование/ Sustainable Forest Management 2(46): 8–14.

Orazio, C. Sustainable Planted Forests to Meet Growing Global Needs. IUFRO Spotlight #41, November 2016.

■ Project reports

Beuker, E., Climent, J., Orazio, C., Alia, R., Chambel, R. and Kowalczyk, J. Guidelines for the deployment of basic materials and seed transfer. Trees4Future.

den Herder, M., Moreno, G., Mosquera-Losada, M.R., Palma, J.H.N., Sidiropoulou, A., Santiago Freijanes, J.J., Crous-Duran, J., Paulo, J., Tomé, M., Pantera, A., Papanastasis, V., Mantzanas, K., Pachana, P., Papadopoulou, A., Plieninger, T. and Burgess, P.J. Current extent and trends of agroforestry in the EU27. Deliverable Report 1.2 for EU FP7 Research Project: AGFORWARD 613520. 76 p.

Kulikova, E. Report on EU-Russian-Eastern partnership common research priorities: synthesis of common research needs. SUMFOREST. 26 p.

Mosquera-Losada, M.R., Santiago Freijanes, J.J., Pisanelli, A., Rois, M., Smith, J., den Herder, M., Moreno, G., Malignier, N., Mirazo, J.R., Lamersdorf, N., Ferreira Domínguez, N., Balaguer, F., Pantera, A., Rigueiro-Rodríguez, A., Gonzalez-Hernández, P., Fernández-Lorenzo J.L., Romero-Franco, R., Chalmin, A., Garcia de Jalon, S., Garnett, K., Graves, A. and Burgess, P.J. Extent and success of current policy measures to promote agroforestry across Europe Deliverable 8.23 for EU FP7 Research Project: AGFORWARD 613520. (8 December 2016). 95 p.

Rivera León, L., Bougas, K., Zoboli, E., Ravet, J., Griniece, E., Vermeer, J., Aggestam, F., Pülzl, H., Ettwein, F., Stern, T., Van Brusselen, J., Green, T., Lovrić, N. and Hurmekoski, E. An assessment of the cumulative cost impact of specified EU legislation and policies on the EU forest-based industries. European Commission, Directorate General for Internal Market, Industry, Entrepreneurship and SMEs.

■ Selected presentations

Carnus, JM. and Orazio, C. Ecosystem Services from European Planted Forests: Evolving Demand and Supply in Atlantic Regions. IUFRO Regional congress for Asia and Oceania, Beijing, China

Cordero, R. and Orazio, C. REINFFORCE / REsource INFrastructure for monitoring and adapting European Atlantic FOREst under Changing climate. Société Royale Forestière de Belgique.

den Herder, M. and Burgess, P.J. Livestock agroforestry – Combining forestry with livestock husbandry: woodland eggs and poultry. EIP-AGRI workshop New value chains from multifunctional forests, Vienna, Austria, 10–11 November 2016.

den Herder, M., Moreno, G., Mosquera-Losada, M.R., Palma, J.H.N., Sidiropoulou, A., Santiago Freijanes, J.J., Crous-Duran, J., Paulo, J., Tomé, M., Pantera, A., Papanastasis, V., Mantzanas, K., Pachana, P., Plieninger, T. and Burgess, P.J. Current extent of agroforestry in Europe. 3rd European Agroforestry Conference Conference, Montpellier, France. 23–25 May 2016.

Fitzgerald, J. and Lindner, M. Adaptive Challenges for European Forests Symposium – Adapting forests to climate change. SFecologie 2016, Marseille, 25. October 2016.

Gardiner, B., Luysaert, S., Chen, Y., Blennow, K. and Paztor, F. Wind Risk and Forest Intensification in a Changing Climate. IUFRO Regional Congress for Asia and Oceania 24–27 October 2016, Beijing, China.

Kraus, D., Bütler, R., Krumm, F., Lachat, T., Larrieu, L., Mergner, U., Paillet, Y., Rydkvist, T., Schuck, A., and Winter, S. Smart phone application: Catalogue of tree microhabitats – field reference list. App contents derived from: Catalogue of tree microhabitats – field reference list. Integrate+ Technical Paper No. 13. 16 p. European Forest Institute (2016). App: Lisa Apfelbacher (illustrations), Sebastian Walker and Andreas Schuck (design), walkermia systems (development). Available languages: EN, DE, IT. Smart Phone Application

Kulikova E. Динамика эффективности правоприменения и управления в лесном секторе: Россия в международном контексте/ Dynamics of law enforcement and governance in forest sector: Russia in the global context. International Forum Forest and Man. 24 October 2016, Moscow, Russia

Lindner, M. Forest biomass, carbon neutrality and climate change mitigation. Sustainable forest biomass in the light of COP21 (Paris). Meeting in the European Parliament, Brussels, 1 December 2016.

Lindner, M. Klimawandel und Forstwirtschaft – Was wir (noch nicht) wissen und was dies für Monitoring und Praxis bedeutet 30 Jahre Forstliches Waldzustands-Monitoring in Brandenburg, Eberswalde, Germany, 6–7 July 2016.

- Lindner, M. Kommentar zum Gutachten aus der Wissenschaft: Forst und Holz. Fachtagung zum Klimaschutzgutachten „Klimaschutz in der Land- und Forstwirtschaft sowie den nachgelagerten Bereichen Ernährung und Holzverwendung“, Berlin, 12 December 2016.
- Lindner, M. What we (don't) know about climate change in European forests: bridging from science to practice LabEx COTE Summer School, Cadillac, France, June 10, 2016.
- Lokers, R., Randen, Y.v., Zudin, S., Gaubitzer, S., Varis, S. and Suominen, T. Transparent access to distributed forestry data resources. Poster and presentation at Trees4Future final conference, Designing Trees for the Future: Data are the keystone, in Brussels, 4–6 April 2016.
- Mosquera-Losada M.R., Santiago-Freijanes J.J., Rois M., Moreno G., Pisanelli, A., Lamersdorf, N., den Herder, M., Burgess, P., Fernández-Lorenzo J.L., González-Hernández, P. and Rigueiro-Rodríguez, A. CAP and agroforestry practices in Europe. 3rd European Agroforestry Conference. Montpellier, France, 23–25 May 2016.
- Orazio, C. Interest of common garden approach for selecting tree species to be associated in mixture REINFFORCE Network example, Ecosummit, Montpellier.
- Rois-Díaz, M., Lovric, M., Lovric, N., Mosquera-Losada, M.R. and Ferreiro, N. Farmers' reasoning behind the uptake of agroforestry practices: evidence from multiple case-studies across Europe. World Congress Silvo-Pastoral Systems. Silvo-Pastoral Systems in a changing world: functions, management and people. Portugal, Évora 27–30 September 2016.
- Tegegne, Y.T. Advancing the roles and impacts of non-state actors in forest policy making and implementation in Cameroon. 1st international Forest Policy meeting 2016, Hann Münden, Germany
- Zudin, S. and Varis S. Integrate+ software. Integrate+ Conference 2016, Ebrach, Germany 26–28 October 2016.