



EUROPEAN FOREST INSTITUTE

Annual Report 2016
SUPPLEMENT



Associate and Affiliate Members

December 2016

Austria

- Federal Research and Training Centre for Forests, Natural Hazards and Landscape
- University of Natural Resources and Life Sciences (BOKU), Department of Forest and Soil Sciences

Belarus

- V.F. Kuprevich Institute of Experimental Botany at the National Academy of Science of Belarus (IEB NASB)

Belgium

- K.U. Leuven, Division Forest, Nature & Landscape
- Research Institute for Nature and Forest

Bosnia and Herzegovina

- University of Sarajevo, Faculty of Forestry

Bulgaria

- University of Forestry

Canada

- Natural Resources Canada, Canadian Forest Service*

Croatia

- Croatian Forest Research Institute
- University of Zagreb, Faculty of Forestry

Czech Republic

- Czech University of Life Sciences Prague, Faculty of Forestry and Wood Sciences
- Forestry and Game Management Research Institute
- Institute of Forest Ecosystem Research Ltd.
- Mendel University in Brno, Faculty of Forestry and Wood Technology

Denmark

- Forest & Landscape, University of Copenhagen

Estonia

- Estonian University of Life Sciences

Finland

- Finnish Environment Institute (SYKE)
- Karelia University of Applied Sciences
- Metsähallitus
- Metsämiesten Säätiö Foundation
- Metsäteho Oy – R&D operations in forestry
- Natural Resources Institute Finland (LUKE)
- Stora Enso Wood Supply
- Tapio Oy
- University of Eastern Finland
- University of Helsinki, Department of Forest Sciences

France

- AgroParisTech – ENGREF, The Nancy Centre
- ECOFOR
- French Institute of Technology for forest based and furniture sectors – FCBA

- INRA – Department of Forests and Forestry Products
- National Research Institute of Science and Technology for Environment and Agriculture (Irstea)
- Office National des Forêts (ONF)

Germany

- Center of Forestry Weihenstephan
- Department of Forest Sciences, Dresden University of Technology
- Eberswalde University for Sustainable Development, Faculty of Forest and Environment
- Johann Heinrich von Thünen Institute, Federal Research Institute of Rural Areas, Forestry and Fisheries
- Forest Research Institute of Baden-Württemberg
- Potsdam Institute for Climate Impact Research
- State Enterprise for Forestry and Timber
- University of Freiburg, Faculty of Environment and Natural Resources
- University of Göttingen, Faculty of Forest Sciences and Forest Ecology
- UNIQUE forestry and land use

Hungary

- University of West Hungary, Faculty of Forestry

Iceland

- Iceland Forest Service

Ireland

- Forest Service, Department of Agriculture, Food and the Marine
- University College Dublin, School of Agriculture and Food Science

Italy

- Agricultural Research Council – Forest Monitoring and Planning Research Unit (CRA-MPF)
- Department of Land, Environment, Agriculture and Forestry (LEAF), University of Padova
- FOXLAB
- Italian Academy of Forest Sciences
- University of Molise
- University of Tuscia, Faculties of Agricultural (agriculture & forestry) and Biological Sciences

Latvia

- Latvian State Forest Research Institute “Silava”
- Latvia University of Agriculture, Forest Faculty

Lithuania

- Aleksandras Stulginskis University, Faculty of Forest Sciences and Ecology
- Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry

The Netherlands

- Alterra
- Wageningen University, Forestry groups

Norway

- Norwegian Institute of Bioeconomy Research (NIBIO)
- Norwegian University of Life Sciences, Department of Ecology and Natural Resource Management

People's Republic of China

- Guangxi Academy of Sciences, Nanning*

Poland

- Forest Research Institute (IBL)
- Poznań University of Life Sciences, Faculty of Forestry
- Warsaw University of Life Sciences (SGGW), Faculty of Forestry
- Wood Technology Institute

Portugal

- School of Agriculture (ISA), Department of Forestry

Romania

- Forest Research and Management Institute (ICAS)

Russian Federation

- All-Russian Research Institute of Silviculture and Mechanization of Forestry
- Centre for Forest Ecology and Productivity of the Russian Academy of Sciences (CEPF RAS)
- Institute of Physicochemical and Biological Problems in Soil Science, Russian Academy of Sciences
- Moscow State Forest University
- Petrozavodsk State University
- Saint-Petersburg State Forest Technical University
- Volga State University of Technology, Centre of Sustainable Forest Management and Remote Sensing

Serbia

- Faculty of Forestry, University of Belgrade
- Institute of Forestry
- Institute of Lowland Forestry and Environment

Slovak Republic

- Institute of Forest Ecology - Slovak Academy of Sciences
- National Forest Centre – FRI Zvolen
- Technical University in Zvolen

Slovenia

- Slovenian Forestry Institute
- University of Ljubljana, Department of Forestry

Spain

- CREAM – Centre for Ecological Research and Forestry Applications
- Forest Research Centre (CIFOR-INIA)
- Forest Sciences Center of Catalonia (CTFC)
- Neiker-Tecnalia
- Pau Costa Foundation on Fire Ecology and Management
- University of Valladolid, School of Agriculture, Food Technology and Forestry

Sweden

- Federation of Forest Owners
- Holmen Skog AB
- Linnaeus University
- Skogforsk – The Forestry Research Institute of Sweden
- Sveaskog
- Swedish Forest Agency
- Swedish University of Agricultural Sciences (SLU), Faculty of Forestry

Switzerland

- ETH Zürich, Institute for Terrestrial Ecosystems ITES
- School of Agricultural, Forest and Food Sciences, Bern University of Applied Sciences
- Swiss Federal Institute for Forest, Snow and Landscape Research WSL

Turkey

- Istanbul University, Faculty of Forestry
- Kastamonu University, Faculty of Forestry
- Poplar and Fast Growing Forest Trees Research Institute

Ukraine

- National University of Life and Environmental Sciences of Ukraine
- Ukrainian Research Institute of Forestry and Forest Melioration (URIFFM)

United Kingdom

- Bangor University, School of the Environment, Natural Resources and Geography
- Forestry Commission, Forest Research
- The James Hutton Institute
- University of Wolverhampton, Centre for International Development and Training (CIDT)

USA

- University of Georgia, Center for Forest Business*

International bodies

- European Confederation of Woodworking Industries – CEI-Bois
- European Landowners' Organization (ELO)
- International Forestry Students' Association (IFSA)
- Nordic Forest Research Co-operation Committee (SNS)
- The Union of Southern European Forest Owners (USSE)

113 member organisations in 36 countries

Country Members

By the end of the year 2016, a total of 25 European States had ratified the Convention on EFI, namely: Austria, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Regional Offices and Project Centres

In 2016, EFI had five Regional Offices and three Project Centres. Further information on their work and donors can be found at their websites.

Mediterranean Regional Office – EFIMED, located in Barcelona Spain.
www.efimed.efi.int

Central European Regional Office – EFICIENT, located in Freiburg, Germany.
www.eficient.efi.int

Atlantic European Regional Office – EFIATLANTIC, located in Bordeaux, France.
www.efiatlantic.efi.int

Central-East and South-East European Regional Office – EFICEEC-EFISEE, located in Vienna, Austria and Zagreb, Croatia.
www.eficeec.efi.int

North European Regional Office – EFINORD, located in Umeå, Sweden.
www.efinord.efi.int

MOUNTFOR – Preserving and Enhancing the Multifunctionality of Mountain Forests
<http://mountfor.fmach.it/>

RUSFOR – Forest Policy and Governance in Russia
http://www.efi.int/portal/about_efi/structure/project_centres/rusfor/

SURF – Supporting the Global Implementation of REDD+ and FLEGT
http://www.efi.int/portal/about_efi/structure/project_centres/surf/

Board

Prof. Dr. Christine Farcy	Belgium
Dr. Lukas Giessen	Germany (as of 22 September 2016)
Prof. Dr. Jean-Marc Guehl	France (until 22 September 2016)
Dr. Eeva Hellström	Finland
Prof. Dr. Michael Köhl	Germany (until 22 September 2016)
Dr. Natalya Lukina	Russia (as of 22 September 2016)
Prof. Dr. Frits Mohren	the Netherlands
Prof. Dr. Giuseppe E. Scarascia-Mugnozza, <i>Chair</i>	Italy
Prof. Dr. Tomasz Zawila-Niedźwiecki	Poland
Mr. Knut Øistad	Norway

Scientific Advisory Board

Prof. Bill Slee, <i>Chair</i>	UK
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Prof. Dr. Karin Ljung	Sweden
Prof. Dr. Elena Paoletti	Italy
Dr. Zoltán Somogyi	Hungary
Prof. Bo Jellesmark Thorsen	Denmark

Projects 2016

Advanced Biofuels – Research and Innovation perspective of the mid- and long-term Potential for Advanced Biofuels
EFI'S ROLE: PARTNER | 2016–2017

AGFORWARD – AGroFOREstry that Will Advance Rural Development
EFI'S ROLE: PARTNER | 2014–2017

BECC – Tools for the assessment of sustainability forest production in southern Sweden
EFI'S ROLE: SUBCONTRACTOR | 2015–2016

BEWATER – Making society an active participant in water adaptation to global change
EFI'S ROLE: PARTNER | 2013–2017

CARAVANE – Reasoned Catalog for new species to be experimented
EFI'S ROLE: PARTNER | 2016–2018

CASTLE - Careers in Sustainability Excellence
EFI'S ROLE: COORDINATOR | 2012–2016

CCA – Cumulative Cost Assessment
EFI'S ROLE: PARTNER | 2015–2016

CHARFOR – Research project on production alternatives of biochar and wood ashes with sustainability impact assessment through ToSIA
EFI'S ROLE: SUBCONTRACTOR | 2013–2016

CO₂Land – Analysing the CO₂Fix and CO₂Land software in respect to propose development steps towards getting CO₂Fix operational for landscape level accounting of carbon impacts of REDD+ policies
EFI'S ROLE: SOLE PARTNER | 2015–2016

eFIRECOM Efficient fire risk communication for resilient societies
EFI'S ROLE: PARTNER | 2015–2016

EVOLTREE– EVOLution of TREES as drivers for terrestrial biodiversity
EFI'S ROLE: SECRETARIAT | 2011–2018

FAO C_I – Strengthening criteria and indicators for sustainable forest management
EFI'S ROLE: COORDINATOR | 2016

FC-GPG – Good Practice Guidelines for Forest Concessions
EFI'S ROLE: COORDINATOR | 2016–2017

FLEGT Facility
EFI'S ROLE: COORDINATOR | 2006–

FLEGT Asia II – Regional Support Programme for the EU FLEGT Action Plan in Asia
EFI'S ROLE: COORDINATOR | 2013–2016

FORBIO – Sustainable, climate-neutral and resource-efficient forest-based bioeconomy
EFI'S ROLE: PARTNER | 2015–2017

FPS Multi-Donor Trust Fund
EFI'S ROLE: COORDINATOR | 2015–2017

GenTree – Optimising the management and sustainable use of forest genetic resources in Europe
EFI'S ROLE: PARTNER | 2016–2020

GTTN Phase 2 – Global Timber Tracking Network
EFI'S ROLE: COORDINATOR | 2016–2019

INTEGRATE+ – Establishing a European network of demonstration sites for the integration of biodiversity conservation into forest management
EFI'S ROLE: COORDINATOR | 2013–2016

Invasives – Invasive species in European forests - Current knowledge in science and practical implications for forest management
EFI'S ROLE: COORDINATOR | 2014–2016

LignoSilva – Centre of Excellence of Forest-based Industry
EFI'S ROLE: PARTNER | 2015–2016

MultiCo – Promoting Youth Scientific Career Awareness and its Attractiveness through Multi-stakeholder Co-operation
EFI'S ROLE: CONSULTANT | 2015–2018

MULTIRISKS – Multiple risks analysis and mitigation in planted forests
EFI'S ROLE: PARTNER | 2016–2018

NOFOBE – Nordic Forest-Based Sector in Bioeconomy
EFI'S ROLE: PARTNER | 2016–2020

OPERAs– Operational Potential of Ecosystem Research Applications
EFI'S ROLE: PARTNER | 2012–2017

PLURIFOR –Transnational plans for the management of forest risks
EFI'S ROLE: COORDINATOR | 2016–2019

REDD Facility
EFI'S ROLE: COORDINATOR | 2011–

S2BIOM –Support to the sustainable delivery of non-food biomass
EFI'S ROLE: PARTNER | 2013–2016

SAFARI – SFM approaches to foster FLEGT and REDD+ interactions

EFI'S ROLE: COORDINATOR | 2015–2018

SIMRA – Social Innovation in Marginalised Rural Areas

EFI'S ROLE: PARTNER | 2016–2020

SIMWOOD – Sustainable Innovative Mobilisation of Wood

EFI'S ROLE: PARTNER | 2013–2017

Star Tree – Multipurpose trees and non-wood forest products a challenge and opportunity

EFI'S ROLE: COORDINATOR | 2012–2016

SUMFOREST – Tackling the challenges in sustainable and multifunctional forestry through enhanced research coordination for policy decisions

EFI'S ROLE: PARTNER | 2014–2017

TECH4EFFECT – Techniques and Technologies for Effective Wood Procurement

EFI'S ROLE: PARTNER | 2016–2020

TREC –Reasoned transfert of introduced species

EFI'S ROLE: PARTNER | 2016–2018

VALERIE –VALorising European Research for Innovation in agriculturE and forestry

EFI'S ROLE: PARTNER | 2014–2017

ValForSwiss – Valuation of ecosystem services provided by Swiss forests: a feasibility study

EFI'S ROLE: SOLE PARTNER | 2015–2016

YLP – Young Leadership Programme

EFI'S ROLE: COORDINATOR | 2014–2016

List of Events 2016

Forest Innovation Workshop 2016

- 29 January, Brussels, Belgium
- Organisers: ERIAFF Network, EFI, EUROMONTANA, CEPF, EUSTAFOR, COPA-COGECA, ERRIN
- Number of participants and countries: 95/20

Climate policy after COP21: Implications for the European forest-based sector

- 15 March, Brussels, Belgium
- Organisers: EFI
- Number of participants and countries: 103/10

Sustainable production of forest biomass for the Northern Europe in a climate change context

- 24 May, Oslo, Norway
- Organisers: EFINORD

Sustainable intensification of planted forests: potential and limits

- 2 June, Arcachon, France
- Organisers: EFIATLANTIC
- Number of participants and countries: 16/8

Building the bioeconomy: insights from European strategies

- 7 June, Helsinki, Finland
- Organisers: EFI
- Number of participants and countries: 147/12

COST Action FP1201 FACESMAP Final Conference – Forest ownership changes in Europe: trends, issues and needs for action

- 7-9 September, Vienna, Austria
- Organisers: BOKU, EFICEEC-EFISEE
- Number of participants and countries: 118/28

EFI 2016 Annual Conference

- 22 September, Vienna, Austria
- Organisers: EFI
- Number of participants and countries: 103/24

Seminar in connection to the EFI Annual Conference: Forest-based innovations - a key for Europe's bioeconomy

- 23 September, Vienna, Austria
- Organisers: EFI, BOKU, BFW
- Number of participants and countries: 115/24

Visions, opportunities and challenges for the bioeconomy in Southern Europe

- 28 September, San Sebastian, Spain
- Organisers: EFIMED, USSE
- Number of participants and countries: 50/6

Forest biomass sustainability and carbon neutrality

- 12 October, Brussels, Belgium
- Organisers: EFI
- Number of participants: 26/8

Wild Forest Products in Europe

- 13–14 October, Barcelona, Spain
- Organisers: EFI, EFIMED
- Number of participants and countries: 70/18

INTEGRATE+ Conference 2016

- 26–28 October, Ebrach, Germany
- Organisers: INTEGRATE, EFICIENT
- Number of participants and countries: 53/13

International conference: Introduced tree species to European forests – challenges and opportunities

- 2–5 November, Ascona, Switzerland
- Organisers: EFICIENT, WSL
- Number of participants and countries: 45/12

Smart Mediterranean Forestry, bioeconomy and social integration (EFIMED Week 2016)

- 7–9 November, Calabria, Italy
- Organisers: EFIMED, CNR, ISAFOM
- Number of participants and countries: 60/10

Building an innovative and resilient forest bioeconomy

- 15 November, Brussels, Belgium
- Organisers: EFI
- Number of participants and countries: 130/17

Young Leadership Programme on Forest-Based Bioeconomy: Focus on Russia

- 28 November – 2 December, Joensuu, Finland
- Organisers: EFI, LUKE, UEF, Joensuu Science Park
- Number of participants and countries: 16/5

Engineered wood products and wood contraction in the bioeconomy: Opportunities and challenges for Southern Europe

- 29 November, Barcelona, Spain
- Organisers: EFIMED
- Number of participants and countries: 50/5

Introduced tree species to European forests: challenges and opportunities

- 5 December, Brussels, Belgium
- Organisers: EFICIENT, Permanent Representation of the Czech Republic to the EU
- Number of participants and countries: 45/13

EFI ASSOCIATED EVENTS

Forests in the future – adaptive measures, reforestation and sustainable development of forest ecosystems

- 28–30 August, Belgrade, Serbia

GREEN 2: Natural Resources, Green Technology and Sustainable Development

- 5–7 October, Zagreb, Croatia

ACRONYMS

BOKU	University of Natural Resources and Life Sciences, Vienna
BFW	Austrian Research Centre for Forests
CEPF	European Confederation of Forest Owners
CNR	National Research Centre, Italy
COPA-COGECA	European Farmers and Agri-cooperatives
EFI	European Forest Institute
EFICEEC-EFISEE	EFI's Central-East and South-East European Regional Office
EFICENT	EFI's Central European Regional Office
EFIMED	EFI's Mediterranean Regional Office
EFINORD	EFI's North European Regional Office
ERIAFF Network	European Regions for Innovation in Agriculture, Food and Forestry
ERRIN	European Regions for Research and Innovation
EUROMONTANA	European Association of Mountain Areas
EUSTAFOR	European State Forest Association
INTEGRATE	European network of demonstration sites for the integration of biodiversity conservation into forest management
ISAFOM	Institute for Mediterranean Forestry and Agriculture Systems
LUKE	Natural Resources Institute Finland
UEF	University of Eastern Finland
WSL	Swiss Federal Institute for Forest, Snow and Landscape Research

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

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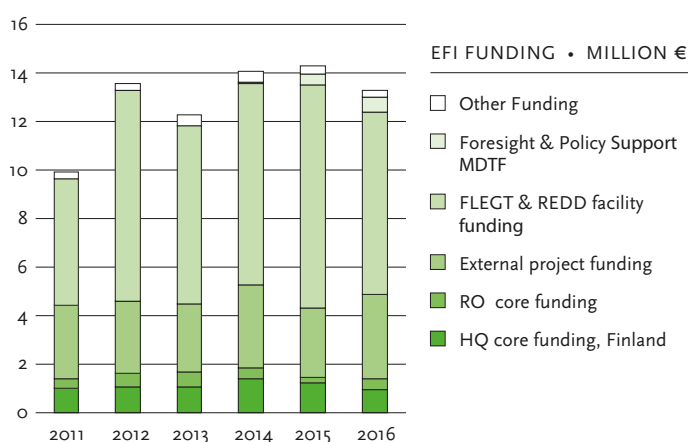
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Financial Statements and Human Resources

In 2016, we had 114 staff members from 26 countries.

The financial statements have been prepared in accordance with the Finnish Accounting Act and according to the other applicable rules governing the preparation of financial statements of EFI. In 2016 the total funding was 13.3 million €, from which funding for projects was 11.6 million €, subsidies were 1.4 million €, and membership fees from the associate and affiliate members 195 k€. The result of the year was +266 k€.

There was no significant change in the non-current (fixed) assets of EFI, and the general increase in the Balance Sheet value is attributed to the +266 k€ result of the year.



Income statement

European Forest Institute
1.1.–31.12.2016

	2016 / EUR	2015 / EUR
ORDINARY OPERATIONS		
Project income	11,644,524.62	12,658,293.83
Project expenses		
Staff expenses	-5,821,297.88	-5,788,008.88
Depreciation	-2,871.36	-3,468.50
Other expenses	-4,843,103.10	-5,786,040.97
Project expenses total	-10,667,272.34	-11,577,518.35
GROSS SURPLUS/DEFICIT FROM PROJECTS	977,252.28	1,080,775.48
Other expenses		
Staff expenses	-1,302,287.16	-1,163,286.59
Depreciation	-29,103.23	-53,549.40
Other expenses	-995,982.90	-877,896.14
Other expenses total	-2,327,373.29	-2,094,732.13
OTHER INCOME		
Other income	43,508.88	21,757.34
Membership fees	195,706.07	184,578.21
Other income total	239,214.95	206,335.55
SUBSIDIES		
Subsidies Government	1,194,411.23	1,212,085.42
Subsidies Non-government	185,400.00	227,909.45
Subsidies total	1,379,811.23	1,439,994.87
INVESTMENTS AND FINANCIAL ACTIVITIES		
Income	22.82	10.59
Expenses	-3,014.54	-18.35
Investments and financial activities total	-2,991.72	-7.76
SURPLUS/DEFICIT OF THE FINANCIAL YEAR	265,913.45	632,366.01

Balance Sheet

European Forest Institute
Balance sheet
31.12.2016

	2016 / EUR	2015 / EUR
■ ASSETS		
Non-current assets		
Intangible assets - other capitalised long-term expenses	24,045.70	44,570.23
Tangible assets - machinery and equipment	8,687.15	13,171.70
Non-current assets total	32,732.85	57,741.93
Current assets		
Current receivables		
Accounts receivable	265,041.12	275,220.10
Accrued income and prepaid expenses	52,022.84	67,148.44
Project receivables	735,403.49	740,417.21
Vat receivables	38,433.07	71,755.79
Prepaid expenses	131,889.54	71,583.24
Current receivables	1,222,790.06	1,226,124.78
Cash in hand and at banks	6,825,266.47	7,371,555.02
Current assets total	8,048,056.53	8,597,679.80
■ ASSETS	8,080,789.38	8,655,421.73
■ LIABILITIES		
Equity		
15 th anniversary fund	0.00	1,400.00
Surplus (deficit) from previous periods	1,045,460.42	413,094.41
Other equity	108,521.02	108,521.02
Surplus (deficit) for the period	265,913.45	632,366.01
Total equity	1,419,894.89	1,155,381.44
Liabilities		
Current liabilities		
Advanced payments received - multi-donor trust fund	4,302,656.36	4,655,074.31
Other advance payments received	997,181.53	1,212,997.58
Purchases payables	559,532.00	1,163,525.47
Accrued liabilities and deferred income	314,927.58	266,005.93
Partner liabilities	396,132.67	86,895.78
Other liabilities	90,464.35	115,541.22
Current liabilities	6,660,894.49	7,500,040.29
Total liabilities	6,660,894.49	7,500,040.29
■ LIABILITIES	8,080,789.38	8,655,421.73



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