



*Annual Report*  
SUPPLEMENT



# Associate and Affiliate Members

December 2022

## **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\*

## **Chile**

- Celulosa Arauco Y Constitucion S.A.\*

## **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
- Faculty of Forestry and Wood Technology of the Mendel University in Brno
- Forestry and Game Management Research Institute
- Institute of Forest Ecosystem Research Ltd.

## **Denmark**

- Forest & Landscape, University of Copenhagen

## **Estonia**

- Estonian University of Life Sciences

## **Finland**

- Business Joensuu Oy
- Central Union of Agricultural Producers and Forest Owners (MTK)
- 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)
- Pellervon taloustutkimus PTT ry
- Stora Enso Wood Supply
- Tapio Oy
- University of Eastern Finland
- University of Helsinki, Department of Forest Sciences
- UPM- Kymmene Corporation
- VTT Technical Research Centre of Finland Ltd

## **France**

- AgroParisTech – ENGREF, The Nancy Centre
- ECOFOR
- French Institute of Technology for forest based and furniture sectors – FCBA
- INRAE
- Office National des Forêts (ONF)
- Reforest'Action
- Université de Lorraine

## **Georgia**

- Georgian Technical University\*

## **Germany**

- Department of Forest Sciences, Dresden University of Technology
- Eberswalde University for Sustainable Development, Faculty of Forest and Environment
- Gutsverwaltung Schloss Neuenhof
- 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
- University of Hamburg, Institute of Wood Sciences - World Forestry

## **Greece**

- Management Body of Mt Aenos National Park

## **Iceland**

- Iceland Forest Service

## **Ireland**

- Institut Européen de la Forêt Cultivée (IEFC)
- University College Dublin, School of Agriculture and Food Science

## **Israel**

- Keren Kayemeth Lelsrael – Jewish National Fund (KKL-JNF)\*

## **Italy**

- Council for Agricultural Research and Economics - Research Centre for Forestry and Wood (CREA-FL)
- Department of Agriculture, Forest, Food Sciences (DISAFA), University of Turin
- Department for Innovation in Biological, Agro-food and Forest systems of University of Tuscia
- Department of Land, Environment, Agriculture and Forestry (LEAF), University of Padova
- Etifor srl
- FOXLAB
- Italian Society of Silviculture and Forest Ecology (SISEF)
- National Research Council of Italy (CNR) Rome
- University of Florence – Department of Agriculture, Food, Environment and Forestry
- University of Molise

**Latvia**

- Latvian State Forest Research Institute “Silava”

**Lithuania**

- Agriculture Academy of Vytautas Magnus University
- Institute of Forestry, Lithuanian Research Centre for Agriculture and Forestry

**The Netherlands**

- Wageningen Environmental Research
- Wageningen University, Forestry groups

**Norway**

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

**Pakistan**

- University of Swat Kpk\*

**People’s Republic of China**

- Nanjing Forestry University\*

**Poland**

- Forest Research Institute (IBL)
- Polish Academy of Sciences
- University of Agriculture in Krakow, Faculty of Forestry
- University of Warmia and Mazury in Olsztyn
- Warsaw University of Life Sciences (SGGW), Faculty of Forestry
- Wood Technology Institute

**Portugal**

- Instituto Superior de Agronomia (ISA), Department of Forestry
- RAIZ – Forest and Paper Research Institute

**Romania**

- Foundation Conservation Carpathia
- Transilvania University of Brasov – Faculty of Silviculture and Forest Engineering
- Unversitatea Ștefan cel Mare din Suceava

**Russian Federation**

- Centre for Forest Ecology and Productivity of the Russian Academy of Sciences (CEPF RAS)
- Saint-Petersburg State Forest Technical University

**Sierra Leone**

- Forestry Department, Eastern Technical University\*

**Serbia**

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

**Slovak Republic**

- National Forest Centre – FRI Zvolen
- Technical University in Zvolen

**Slovenia**

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

**South Africa**

- Ecology Africa Foundation

**Spain**

- Colegio Oficial de Ingenieros de Montes
- CREA – Centre for Ecological Research and Forestry Applications
- Forest Research Centre (CIFOR-INIA)
- Forest Sciences Center of Catalonia (CTFC)
- Fundación Centro de Servicios y Promoción Forestal y de su Industria de Castilla y León (CESEFOR)
- Institute of Advanced Architecture of Catalonia (IAAC)
- Neiker-Tecnalia
- Parc de Belloch SL
- School of Forest Engineering and Natural Resources. Universidad Politécnica de Madrid
- University of Santiago de Compostela. GI Sistemas Silvopastorales
- 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
- The Marcus Wallenberg Foundation

**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**

- Forest Products Industrialists and Businessmen Association
- Istanbul University, Cerahpasa, Faculty of Forestry
- Poplar and Fast Growing Forest Trees Research Institute

**Ukraine**

- National University of Life and Environmental Sciences of Ukraine
- Ukrainian National Forestry University

**United Kingdom**

- Bangor University
- Forestry Commission, Forest Research
- The James Hutton Institute
- Woodbois Ltd., Guernsey \*\*

**USA**

- University of Georgia, Center for Forest Business\*

**International bodies**

- European State Forest Association (EUSTAFOR)
- International Forestry Students’ Association (IFSA)
- Nordic Forest Research Co-operation Committee (SNS)
- The Union of Southern European Forest Owners (USSE)

129 member organisations in 40 countries

\*Affiliate Members

\*\* Guernsey is a British Crown dependency

# Country Members

By the end of the year 2022, a total of 30 European States had ratified the Convention on EFI, namely: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine and the United Kingdom.

## Board

Prof. Marco Marchetti (Chair of the Board)  
Dr. Leire Barañano (Vice Chair of the Board)  
Roland Daamen  
Dr. Erwin Dreyer  
Prof. Verena Griess (entered Board 15 June 2022)  
Alenka Korenjak (stepped down on 18 January 2022)  
MP Hanna Kosonen  
Dr. Natalia Lukina (stepped down on 5 October 2022)  
Dr. Sanja Perić (entered Board on 5 October 2022)  
Prof. Margarida Tomé

## Scientific Advisory Board

Dr. Gary Kerr (Chair 2022)  
Prof. Dr. Anne Toppinen (Vice-Chair 2022)  
Prof. Dr. Phoebe Koundouri  
Prof. Dr. Manfred Lexer  
Prof. Dr. Bart Muys  
Prof. Dr. Maria Nijnik  
Prof. Dr. Elena Paoletti

# Projects 2022

## **B4EST – Adaptive breeding for productive, sustainable and resilient forests under climate change**

EFI'S ROLE: PARTNER | 2018–2022

## **BioMonitor – Monitoring the Bioeconomy**

EFI'S ROLE: PARTNER | 2018–2022

## **BIOCONSENT – Entscheidungshilfen für Politik und Praxis zur Erhaltung und Wiederherstellung der biologischen Vielfalt der Wälder, Szenarien für Politik und Praxis**

EFI'S ROLE: SOLE PARTNER | 2022–2025

## **Bioregions Facility**

EFI'S ROLE: SOLE PARTNER | 2019–

## **BIOSCOPE – a goal for the growth of the bioeconomy in North Karelia**

EFI'S ROLE: Partner | 2020–2023

## **CLEARINGHOUSE – Collaborative Learning in Research, Information-sharing and Governance on How Urban tree-based solutions support Sino-European urban futures**

EFI'S ROLE: COORDINATOR | 2019–2023

## **CLEVER –Creating leverage to enhance biodiversity outcomes of global biomass trade**

EFI'S ROLE: PARTNER | 2022–2025

## **CIRCHIVE – Developing & piloting biodiversity footprinting & natural capital accounting via a 'beehive' of sectoral hubs, for sustainable transition to a circular EU bioeconomy**

EFI'S ROLE: Partner | 2022–2027

## **CIV-Cocoa – Appui à l'Initiative Team Europe pour une cacao culture durable et une bonne gouvernance forestière en Côte d'Ivoire**

EFI'S ROLE: SOLE PARTNER | 2022–2025

## **Dauerwald – Anlage von Dauerbeobachtungsflächen in Deutschland**

EFI'S ROLE: SUBCONTRACTOR | 2019–2022

## **DIGITAF – Digital tools to help agroforestry meet climate, biodiversity and farming sustainability goals: linking field and cloud**

EFI'S ROLE: PARTNER | 2022–2026

## **eco2adapt – Ecosystem-based adaptation and changemaking to shape, protect and maintain the resilience of tomorrow's forests**

EFI'S ROLE: COORDINATOR | 2022–2027

## **EFFECT – Environmental public goods From Farming through Effective Contract Targeting**

EFI'S ROLE: PARTNER | 2019–2023

## **EFI and Diputació de Barcelona (DIBA) collaboration**

EFI'S ROLE: SOLE PARTNER | 2022

## **EFITAP – EFI Rapid response Technical Assistance Projects**

EFI'S ROLE: SOLE PARTNER | 2019–2023

## **ESA Forest Carbon Monitoring**

EFI'S ROLE: SUBCONTRACTOR | 2021–2023

## **EUFORE – European Forest Research and Innovation Ecosystem**

EFI'S ROLE: COORDINATOR | 2022–2026

## **EUFORGEN – European Forest Genetic Resources Programme**

EFI'S ROLE: SOLE PARTNER | 2018–

## **EU FLEGT Facility (multi-donor trust fund)**

EFI'S ROLE: SOLE PARTNER | 2016–2022

## **EU REDD Facility (multi-donor trust fund)**

EFI'S ROLE: SOLE PARTNER | 2011–2023

## **EVOLTREE– EVOLution of TREES as drivers for terrestrial biodiversity**

EFI'S ROLE: SECRETARIAT | 2011–

## **FAO Colombia – Contribución a la construcción y desarrollo de la estrategia de sostenibilidad financiera de HeCo incluyendo instrumentos económicos, fiscales y de mercado, para brindar sostenibilidad a las iniciativas que se desarrollen en los paisajes Andes y Caribe**

EFI'S ROLE: SOLE PARTNER | 2022–2024

## **FEFR – Support Research on Forest Bioeconomy Markets**

EFI'S ROLE: SOLE PARTNER | 2021–2024

## **FISE2 – Content support to Forest Information System for Europe (FISE) with respect to support to forest-related EU policies under the EU Green Deal**

EFI'S ROLE: SUBCONTRACTOR | 2022–2025

## **FLEGT ASIA (Regional-ASEAN Forest Governance support programme)**

EFI'S ROLE: SOLE PARTNER | 2020–2023

## **FMRL Spain – Estimating a Technical Correction of Forest Management Reference Levels for Spain**

EFI'S ROLE: COORDINATOR | 2021–2022

## **FOODLEVERS – Leverage points for organic and sustainable food systems**

EFI'S ROLE: PARTNER | 2020–2023

## **Forgenius – Improving access to FORest GENetic resources Information and services for end-Users**

EFI'S ROLE: PARTNER | 2021–2025

## **ForSite – Managing forests for Resilience and biodiversity – bridging policy, science and education.**

EFI'S ROLE: COORDINATOR | 2020–2022

## **Forest Europe (multi-donor trust fund)**

EFI'S ROLE: SOLE PARTNER | 2021–2024

**ForestPaths – Co-designing Holistic Forest-Based Policy Pathways for Climate Change Mitigation**

EFI'S ROLE: COORDINATOR | 2022–2027

**FOREXT – European Network of Forest Extension Organisations**

EFI'S ROLE: SECRETARIAT | 2022–2026

**FORWARDS – The Forestward Observatory to secure resilience of European forests**

EFI'S ROLE: PARTNER | 2022–2027

**FPS Multi-Donor Trust Fund**

EFI'S ROLE: COORDINATOR | 2021–2023

**FutureForest2040 – Suomen metsäalan rakenteelliset muutokset, sekä markkina- ja työllisyysnäkömät vuoteen 2040**

EFI'S ROLE: COORDINATOR | 2019–2022

**Green4Care – Alliance on Interdisciplinary Learning and Entrepreneurial Skills in Green for Health and Social Inclusion**

EFI'S ROLE: COORDINATOR | 2020–2022

**HoliSoils – Holistic management practices, modelling & monitoring for European forest Soils**

EFI'S ROLE: PARTNER | 2021–2025

**HOMED – HOListic Management of Emerging forest pests and Diseases**

EFI'S ROLE: PARTNER | 2018–2022

**I-Maestro – Innovative forest management strategies for a resilient bioeconomy under climate change and disturbances**

EFI'S ROLE: PARTNER | 2019–2022

**KAMI – Sustainability of Malaysian and Indonesian palm oil**

EFI'S ROLE: SOLE PARTNER | 2020–2023

**Koli Forum Secretariat**

EFI'S ROLE: SOLE PARTNER | 2022–2023

**LIFE SPAN – Saprophytic Habitat Network: planning and management for European forests**

EFI'S ROLE: PARTNER | 2020–2026

**LEARNFORCLIMATE – Learning to realize multiple forest policy objectives under climate related stress and disturbance**

EFI'S ROLE: SOLE PARTNER | 2022–2025

**Lookout Station**

EFI'S ROLE: SOLE PARTNER | 2017–

**NEWGO! – New ways for forest governance**

EFI'S ROLE: COORDINATOR | 2019–2022

**NEXTLAND – Next Generation Land Management services for Agriculture and Forestry**

EFI'S ROLE: PARTNER | 2020–2023

**NK Integrate – Metsänomistajien päätöksenteon tuki muuttuvassa toimintaympäristössä**

EFI'S ROLE: PARTNER | 2021–2023

**NOMADI – Nopeaa kasvua maakunnan biotalouteen digitaalisuudesta**

EFI'S ROLE: PARTNER | 2021–2023

**OptFORESTS – Harnessing forest genetic resources for increasing options in the face of environmental and societal challenge**

EFI'S ROLE: PARTNER | 2022–2027

**Pyrolife**

EFI'S ROLE: PARTNER | 2019–2022

**ResAlliance – Landscape resilience knowledge alliance for agriculture and forestry in the Mediterranean basin**

EFI'S ROLE: COORDINATOR | 2022–2025

**RESONATE – Resilient forest value chains – enhancing resilience through natural and socio-economic responses**

EFI'S ROLE: COORDINATOR | 2021–2025

**ROSEWOOD 4.0 – EU Network of Regions on Sustainable Wood Mobilisation ready for Digitalisation**

EFI'S ROLE: PARTNER | 2020–2022

**Sci4FE – Support for Forest Europe**

EFI'S ROLE: SOLE PARTNER | 2021–2024

**SIDA –Strengthening Regional Awareness and Ownership of Forest Governance Issues in The Greater Mekong and Asian Region**

EFI'S ROLE: SOLE PARTNER | 2014–2023

**SINCERE – Spurring innovations for forest ecosystem services in Europe**

EFI'S ROLE: COORDINATOR | 2018–2022

**SUPERB – Systemic solutions for upscaling of urgent ecosystem restoration for forest related biodiversity and ecosystem services**

EFI'S ROLE: COORDINATOR | 2021–2025

**UFOREST – European Alliance on Interdisciplinary Learning and Business Innovation for Urban Forests**

EFI'S ROLE: PARTNER | 2021–2023

**UNDP Vietnam – Integrated sustainable landscape management through deforestation-free jurisdiction project in Lam Dong and Dak Nong- Vietnam**

EFI'S ROLE: PARTNER | 2022–2023

**VPA Africa-Latin America Facility**

EFI'S ROLE: SOLE PARTNER | 2019–2023

**West Africa Cocoa – EFI support to the EU Flagship Initiative on Sustainable Cocoa, in Côte d'Ivoire, Ghana and Cameroon**

EFI'S ROLE: SOLE PARTNER | 2021–2023

**WKR – Waldbrand-Klima-Resilienz**

EFI'S ROLE: COORDINATOR | 2020–2023

**YLP – Young Leadership Programme**

EFI'S ROLE: COORDINATOR | 2022–2023

# Events 2022

## ■ EFI events 2022

### **Future challenges of forest fires in Germany (INTERFORST Trade Fair side-event)**

- 17 January, Munich, Germany
- Organisers: WKR, FVA, OTH Regensburg, Pau Costa Foundation

### **Hacking Finance to End Deforestation**

- 31 January – 8 February, online
- Organisers: NEWGO, Lookout Station, EFI, Trase

### **Introducing international start-up services: Business Joensuu**

- 28 February, online
- Organisers: EFI Bioregions Facility, Business Joensuu

### **Are climate change adaptation, mitigation and biodiversity conservation in European forests two sides of the same coin?**

- 2 March, online
- Organisers: IUCN, EFI, SINCERE, INTEGRATE

### **Let's Talk about Planted Forests: Will we run out of seeds?**

- 18 March, online
- Organisers: IEFC, IUFRO, EFI Planted Forests Network

### **7<sup>th</sup> Mediterranean Forest Week**

- 21–25 March, Antalya, Turkey
- Organisers: Silva Mediterranea, FAO, EFI

### **Looking to the future for forest ecosystem services in Europe**

- 30 March, online
- Organisers: SINCERE, NOBEL, EFI

### **Closer to Nature Forest Management**

- 6 April, online
- Organiser: EFI

### **Global Student Networking and Green Jobs in the Forest Sector**

- 7 April, online
- Organisers: EFI, IFSA, IUFRO

### **Future Challenges: Risk Communication Workshop**

- 8–9 April, Nicosia, Cyprus
- Organisers: EFI, Pyrolife

### **International Forest Policy Meeting**

- 27–29 April, online
- Organisers: EFI, EFI Forest Policy Research Network

### **Innovative partnerships to promote legal and sustainable forest-risk commodities, side event at the XV World Forestry Congress**

- 2 May, Coex, Seoul, Republic of Korea and online
- Organisers: EU REDD Facility, RECOFTC

### **Strengthening the ability of smallholders in the Mekong region's forest sector to operate legally and sustainably, side event at the XV World Forestry Congress**

- 3 May, Coex, Seoul, Republic of Korea and online
- Organisers: EFI, RECOFTC and Royal Forest Department of Thailand

### **Evaluating policy impacts: How to best assess the effectiveness of international forest policy?**

- 4 May, Coex, Seoul, Republic of Korea and online
- Organisers: CIFOR-ICRAF, EFI and TU Dresden

### **The contribution of a forest circular bioeconomy to sustainable development, Special session at the XV World Forestry Congress**

- 5 May, Coex, Seoul, Republic of Korea and online
- Organisers: EFI, Circular Bioeconomy Alliance, CIFOR, ICRAF and FAO

### **I-Maestro project meeting**

- 10–12 May, Krakow, Poland
- Organisers: I-Maestro, EFI

### **European Forum on Urban Forestry (EFUF)**

- 17–21 May, Belgrade, Serbia
- Organisers: EFI, CLEARING HOUSE

### **International Forest Camp - Exchange of Experts**

- 20–22 May, Gołębki, Poland
- Organisers: SNEP, WKR, EFI

### **Opportunities for non-wood forest products in forest-based bioeconomy**

- 25 May, online
- Organisers: KIBIO, EFI

### **What Science can tell us about Forest Biodiversity in Europe & Launching of SUPERB**

- 30 May, Sibiu, Romania and online
- Organisers: EFI, SUPERB, Circular Bioeconomy Alliance, Filarmonica de Stat Sibiu, Consiliul Judetean Sibiu

### **Symposium Barcelona European Forest City**

- 7–8 June, Barcelona, Spain
- Organisers: EFI, Àrea Metropolitana de Barcelona, Diputació Provincial de Barcelona, Ajuntament de Barcelona, Generalitat de Catalunya, Institute for Advanced Architecture of Catalonia, Forest Sciences Center of Catalonia, CREAM – Centre for Ecological Research and Forestry Applications, Parc de Belloc SL Barcelona, Spain

### **ROSEWOOD4.0 Final Event: Fostering Innovation Towards a More Sustainable Forest Sector in Europe**

- 14–15 June, Barcelona, Spain and online
- Organisers: EFI, Steinbeis Europa Zentrum (SEZ)

### **Green4C Summer School: specialisation in Green Care entrepreneurship**

- 15 June – 8 July, Padova, Italy and online
- Organisers: Green4C, University of Padova

### **SUPERB Governance Innovation Lab**

- 27–29 June, Opatija, Croatia
- Organisers: Prospex Institute

### **Unlocking regional bioeconomy transitions. State of the art and ways forward.**

- 28–29 June, Leipzig and Leuna, Germany
- Organisers: EFI's Bioregions Facility and German Biomass Research Centre (DBFZ)

### **Marteloscope workshop**

- 28–29 June, Bonn, Germany
- Organisers: Integrate Network

### **FOREST EUROPE High-Level Talks - Sustainable Forest Management: Unlocking forest biodiversity's potential**

- 30 August, hybrid
- Organisers: FOREST EUROPE; EFI

### **5 Year Anniversary EFI Bonn**

- 1 September, Bonn, Germany
- Organiser: EFI

### **Exchange of Experts**

- 11–16 September, Zagreb, Croatia
- Organiser: WKR

### **CLEARING HOUSE General Assembly**

- 13–15 September, Gelsenkirchen, Germany
- Organiser: CLEARING HOUSE

### **How can we strengthen the contribution of forests in reaching EU climate goals?**

- 20 September, online
- Organiser: EFI

### **PANEL Gender (un-)equal networking of IUFRO: Creating new spaces and thinking.**

- 23 September, Vienna, Austria
- Organizer: EFI Forest Policy Research Network, IUFRO

### **UNECE/FAO Team of Specialists on Monitoring SFM meeting**

- 28 September, Vienna, Austria
- Organizer: EFI Forest Policy Research Network, UNECE, FAO

### **UNECE, FAO, BML Scientific-Technical Symposium on Assessing Forest Damage and Disturbance**

- 29–30 September, Vienna, Austria
- Organizer: EFI Forest Policy Research Network, UNECE, FAO

### **RESONATE International Project meeting “Resilient Forest-Ecosystems”, H2020,**

- 26–28 September, Vienna, Austria
- Organizer: EFI Forest Policy Research Network, RESONATE

### **RESONATE International Stakeholder Workshop, “Resilient forest-ecosystems”, H2020**

- 29 September, Vienna, Austria
- Organizer: EFI Forest Policy Research Network, RESONATE

### **Koli Forum Round Table**

- 28–29 September 2022, Koli Finland
- Organisers: EFI, Koli Forum

### **Future Forests 2040, final seminar**

- 28 September, Koli, Finland and online
- Organisers: EFI, Etna, Future Forests 2040, Koli Forum

### **EFI 2022 Annual Conference**

- 5–7 October, Barcelona, Spain
- Organisers: EFI, Àrea Metropolitana de Barcelona, Diputació Provincial de Barcelona, Ajuntament de Barcelona, Generalitat de Catalunya, Institute for Advanced Architecture of Catalonia, Forest Sciences Center of Catalonia, CREAF – Centre for Ecological Research and Forestry Applications, Parc de Belloch SL, it.org

### **8<sup>th</sup> Annual Integrate Network Meeting**

- 19–21 October, Madrid, Spain
- Organisers: Spain, chair of the Integrate Network

### **Czech Marteloscope visit with EU Forest Directors (Integrate Network)**

- 19–21 October, Křivoklát, Czech Republic
- Organisers: Forests of the Czech Republic and Forest Management Institute

### **Joint Workshop: Develop, adopt and transfer innovative solutions and actions to prevent and control wildfires (FoRISK)**

- 24–27 October, Antalya, Turkey
- Organisers: Forest Europe, SilvaMed, Turkey

### **Sustaining Cities, Naturally: Urban ecosystem restoration**

- 13–14 October, online
- Organisers: INTERLACE, CONEXUS, REGREEN, CLEARING HOUSE, EFI

### **MFRA webinar #1 – Forest management addressing trade-offs and synergies between multiple ecosystem services**

- 3 November, online
- Organisers: EFIMED

### **Symposium on Biodiversity and Trade**

- 3–4 November, Köln
- Organisers: CLEVER

### **Monthly Forest Restoration Talks, November 2022 edition**

- 9 November, online
- Organisers: SUPERB, IUFRO, EFI



**MFRA webinar #2 – Forest resilience in a context of global change-related forest disturbances**

- 10 November, online
- Organisers: EFIMED

**MFRA webinar #3 – Conservation and management of biodiversity and forest genetic resources**

- 17 November, online
- Organisers: EFIMED

**Students as Agents of Social Change**

- 18 November, Barcelona and online
- Organisers: MULTIPLIERS

**MFRA webinar #4 – Social and business innovations and policy instruments to implement the Mediterranean forest-based bioeconomy**

- 23 November, online
- Organisers: EFIMED

**Green Care Hackathon**

- 23 November, Bonn
- Organisers: EFI, Green4C

**Let's Talk About Planted Forests – Clearcutting**

- 25 November, online
- Organisers: IEFC, IUFRO, EFI Research Network on Planted Forests

**EFI Mediterranean Network Forum 2022**

- 29 November – 1 December, Barcelona, Spain
- Organisers: EFIMED

**Taking Green Care to the next level: The final Green4C event**

- 7 December, online
- Organisers: Green4C, EFI

**Monthly Forest Restoration Talks / December 2022 edition**

- 14 December, online
- Organisers: SUPERB, IUFRO, EFI

**MORE INFORMATION ABOUT THE ORGANISERS:**

|                     |  |
|---------------------|--|
| CIFOR-ICRAF         | <a href="http://cifor-icraf.org">cifor-icraf.org</a>   |
| CLEARING HOUSE      | <a href="http://clearinghouseproject.eu">clearinghouseproject.eu</a>   |
| CLEVER              | <a href="http://clever-project.eu">clever-project.eu</a>   |
| CONEXUS             | <a href="http://conexusnbs.com">conexusnbs.com</a>   |
| CREAF               | <a href="http://creaf.cat">creaf.cat</a>   |
| EFI                 | <a href="http://efi.int">efi.int</a>   |
| EFIMED              | <a href="http://efi.int/efimed">efi.int/efimed</a>   |
| EFUF                | <a href="https://efuf.org/">https://efuf.org/</a>  |
| FAO                 | <a href="http://fao.org">fao.org</a>   |
| FOREST EUROPE       | <a href="http://foresteurope.org">foresteurope.org</a>   |
| Future Forests 2040 | <a href="http://efi.int/projects/futureforest2040">efi.int/projects/futureforest2040</a>   |
| FVA                 | <a href="http://www.fva-bw.de/en/homepage">www.fva-bw.de/en/homepage</a>   |
| Green4C             | <a href="http://greenforcare.eu">greenforcare.eu</a>   |
| IEFC                | <a href="http://www.plantedforests.org">www.plantedforests.org</a>   |
| I-MAESTRO           | <a href="http://i-maestro.inrae.fr">i-maestro.inrae.fr</a>   |
| Integrate Network   | <a href="http://integratenetwork.org">integratenetwork.org</a>   |
| INTERLACE           | <a href="http://www.interlace-project.eu">www.interlace-project.eu</a>   |
| IUCN                | <a href="http://iucn.org">iucn.org</a>   |
| IUFRO               | <a href="http://iufro.org">iufro.org</a>   |
| KIBIO               | <a href="http://efi.int/projects/kibio-north-karelia-china-cooperation-forest-bioeconomy-development">efi.int/projects/kibio-north-karelia-china-cooperation-forest-bioeconomy-development</a> |
| MULTIPLIERS         | <a href="http://multipliers-project.org">multipliers-project.org</a>   |
| NEWGO               | <a href="http://efi.int/projects/newgo-new-ways-forest-governance">efi.int/projects/newgo-new-ways-forest-governance</a>   |
| NIBIO               | <a href="http://www.nibio.no/en">www.nibio.no/en</a>   |
| NOBEL               | <a href="http://nobel.boku.ac.at/the-project">nobel.boku.ac.at/the-project</a>   |
| PyroLife            | <a href="http://pyrolife.lessonsonfire.eu">pyrolife.lessonsonfire.eu</a>   |
| RECOFTC             | <a href="http://www.recoftc.org">www.recoftc.org</a>   |
| REGREEN             | <a href="http://www.regreen-project.eu">www.regreen-project.eu</a>   |
| RESONATE            | <a href="http://resonateforest.org">resonateforest.org</a>   |
| SINCERE             | <a href="http://sincereforests.eu">sincereforests.eu</a>   |
| SNEP                | <a href="http://snep.pl">snep.pl</a>   |
| SUPERB              | <a href="http://forest-restoration.eu">forest-restoration.eu</a>   |
| Trase               | <a href="http://www.trase.earth">www.trase.earth</a>   |
| WKR                 | <a href="http://www.waldbrand-klima-resilienz.com">www.waldbrand-klima-resilienz.com</a>   |

# Publications

## ■ EFI series

- Larsen, J.B., Angelstam, P., Bauhus, J., Carvalho, J.F., Diaci, J., Dobrowolska, D., Gazda, A., Gustafsson, L., Krumm, F., Knoke, T., Konczal, A., Kuuluvainen, T., Mason, B., Motta, R., Pötzelsberger, E., Rigling, A., Schuck, A. Closer-to-Nature Forest Management. From Science to Policy 12. European Forest Institute. <https://doi.org/10.36333/fs12>
- Muys, B., Angelstam, P., Bauhus, J., Bouriaud, L., Jactel, H., Kraigher, H., Müller, J., Pettoirelli, N., Pötzelsberger, E., Primmer, E., Svoboda, M., Thorsen, J.B., Van Meerbeek, K. Forest Biodiversity in Europe. From Science to Policy 13. European Forest Institute. <https://doi.org/10.36333/fs13>
- Verkerk, P.J., Delacote, P., Hurmekoski, E., Kunttu, J., Matthews, R., Mäkipää, R., Mosley, F., Perugini, L., Reyer, C. P. O., Roe, S., Trømborg, E. Forest-based climate change mitigation and adaptation in Europe. From Science to Policy 14. European Forest Institute. <https://doi.org/10.36333/fs14>
- Muys, B., Angelstam, P., Bauhus, J., Bouriaud, L., Jactel, H., Kraigher, H., Müller, J., Pettoirelli, N., Pötzelsberger, E., Primmer, E., Svoboda, M., Thorsen, J.B., Van Meerbeek, K. How can we effectively maintain and enhance forest biodiversity in Europe? Policy Brief 1. European Forest Institute. <https://doi.org/10.36333/pb1>
- Verkerk, P.J., Delacote, P., Hurmekoski, E., Kunttu, J., Matthews, R., Mäkipää, R., Mosley, F., Perugini, L., Reyer, C.P.O., Roe, S., Trømborg, E. How can forests and wood use help meet climate goals? Policy Brief 2. European Forest Institute. <https://doi.org/10.36333/pb2>

## ■ Peer-reviewed articles

- Aggestam, F., Giurca, A. Implementing Circular-Bioeconomy Principles across Two Value Chains of the Wood-Based Sector: A Conceptual Approach. *Land-Basel*, 11(11), 2037. <https://doi.org/10.3390/land11112037>
- Andersson, M., Bostedt, G., Sandström, C. The Role of Swedish Forests in Climate Change Mitigation – A Policy Frame Analysis of Conflicting Interests. *Forest Policy and Economics*, 144, 102842. <https://doi.org/10.1016/j.forpol.2022.102842>
- Barañano, L., Unamunzaga, O., Garbisu, N., Briers, S., Orfanidou, T., Schmid, B., Martínez de Arano, I., Araujo, A., Garbisu, C. Assessment of the development of forest-based bioeconomy in European regions. *Sustainability*. <https://doi.org/10.3390/su14084747>
- Carrilho, C. D., Demarchi, G., Duchelle, A. E., Wunder, S., Morsello, C. Permanence of avoided deforestation in a Transamazon REDD+ project (Pará, Brazil). *Ecological Economics*, 201, 107568. <https://doi.org/10.1016/j.ecolecon.2022.107568>
- Cisneros, E., Börner, J., Pagiola, S., Wunder, S.. Impacts of conservation incentives in protected areas: The case of Bolsa Floresta, Brazil. *Journal of Environmental Economics and Management*, 111, 102572. <https://doi.org/10.1016/j.jeem.2021.102572>
- Colín Castillo, S., Manríquez García, N., Martínez-Cruz, A.L. Small-scale farmers' willingness to adopt chemical-free inputs and engage in collaborative arrangements – A discrete choice experiment in Central Mexico. *Econoquantum* 19(2). <https://doi.org/10.18381/eq.v19i2.7254>
- Dalmonech, D., Marano, G., Amthor, J., Cescatti, A., Lindner, M., Trotta, C., Collalti, A. Feasibility of enhancing carbon sequestration and stock capacity in temperate and boreal European forests via changes to management regimes. *Agricultural and Forest Meteorology*, 327, 109203. <https://doi.org/10.1016/j.agrformet.2022.109203>
- Dutta, T., Sharma, S., Meyer, N.F.V., Larroque, J., Balkenhol, N. An overview of computational tools for preparing, constructing and using resistance surfaces in connectivity research. *Landscape Ecology*, 37, 2195–2224. <https://doi.org/10.1007/s10980-022-01469-x>
- Elings, M., O'Connor, D., Briers, S., Burlando, C., Doimo, I. Social Agriculture in Selected EU Countries: A Market Outlook. *European Countryside*, 14(3) 439–455. <https://doi.org/10.2478/euco-2022-0022>
- Elings, M., O'Connor, D., Briers, S., Burlando, C., Doimo, I. Social Agriculture in Selected EU Countries: A Market Outlook. *European Countryside*, 14(3), 43–455. <https://doi.org/10.2478/euco-2022-0022>
- Fady, B., Esposito, E., Abulaila, K., Aleksic, J. M., Alia, R., Alizoti, P., Apostol, E.-N., Aravanopoulos, P., Ballian, D., Bou Dagher Kharrat, M., et al. Forest genetics research in the Mediterranean Basin: Bibliometric Analysis, Knowledge Gaps, and Perspectives. *Current Forestry Reports* 8, 277–298. <https://doi.org/10.1007/s40725-022-00169->
- Frei, T., Edou, K., Rodríguez Fernández-Blanco, C., Winkel, G. Governing abandoned land: Storylines on natural forest regrowth in France and Spain. *Environmental Science & Policy*, 135, 58–66. <https://doi.org/10.1016/j.envsci.2022.04.022>
- Fremout, T., Thomas, E., Taedoum, H., Briers, S., Gutiérrez-Miranda, C. E., Alcázar-Cañedo, C., Lindau, A., Mounmemei Kpoumie, H., Vinceti, B., Kettle, C., Ekué, M., Atkinson, R., Jalonen, R., Gaisberger, H., Elliott, S., Brechbühler, E., Ceccarelli, V., Krishnan, S., Vacik, H., ... Muys, B. Diversity for Restoration (D4R): guiding the selection of tree species and seed sources for climate-resilient restoration of tropical forest landscapes. *Journal of Applied Ecology*, 59, 664–679. <https://doi.org/10.1111/1365-2664.14079>
- Ghanbari, S., Weiss, G., Liu, J.L., Eastin, I., Fathizadeh, O., Moradi, G. Potentials and Opportunities of Wild Edible Forest Fruits for Rural Household's Economy in Arasbaran, Iran. *Forests*, 13(3), 453. <https://doi.org/10.3390/f13030453>
- Gordeeva, E., Weber, N., Wolfslehner, B. The New EU Forest Strategy for 2030-An Analysis of Major Interests. *Forests*, 13(9), 1503. <https://doi.org/10.3390/f13091503>

- Gordeeva, E., Weber, N., Wolfslehner, B. The New EU Forest Strategy for 2030 - an analysis of major interests. *Forests*, 13(9), 1503. <https://doi.org/10.3390/f13091503>
- Hasler, B., Termansen, M., Nielsen, H.Ø., Daugbjerg, C., Wunder, S., Latacz-Lohmann, U. European agri-environmental policy: evolution, effectiveness, and challenges. *Review of Environmental Economics and Policy* 16(1): 105–125. <https://doi.org/10.1086/718212>
- Hassegawa, M., Karlberg, A., Hertzberg, M., Verkerk, P.J. Innovative forest products in the circular bioeconomy [version 2, peer review: 2 approved]. *Open Research Europe*, 2:19. <https://doi.org/10.12688/openreseurope.14413.2>
- Hassegawa, M., Van Brusselen, J., Cramm, M., Verkerk, P.J. Wood-based products in the circular bioeconomy: status and opportunities towards environmental sustainability. *Land*, 11(12), 2131. <https://doi.org/10.3390/land11122131>
- Hernández-Morcillo, M., Torralba, M., Baiges, T., Bernasconi, A., Bottaro, G., Brogaard, S., Bussola, F., Díaz-Varela, E., Geneletti, D., Grossmann, C. M., Kister, J., Klingler, M., Loft, L., Lovrić, M., Mann, C., Pipart, N., Roces-Díaz, J. V., Sorge, S., Tiebel, M., Tyrväinen, L., Varela, E., Winkel, G., Plieninger, T. Scanning the solutions for the sustainable supply of forest ecosystem services in Europe. *Sustainability science*, 17, 2013–2029. <https://doi.org/10.1007/s11625-022-01111-4>
- Hurmekoski, E., Suuronen, J., Ahlviik, L., Kunttu, J., Myllyviita, T. Substitution impacts of wood-based textile fibers: Influence of market assumptions. *Journal of Industrial Ecology*, 26, 1564–1577. <https://doi.org/10.1111/jiec.13297>
- Kramer, K., Bouriaud, L., Feindt, P.H., van Wassenaeer, L., Glanemann, N., Hanewinkel, M., van der Heide, M., Hengeveld, G.M., Hoogstra, M., Ingram, V., Levermann, A., Lindner, M., Mátyás, C., Mohren, F., Muys, B., Nabuurs, G.-J., Palahí, M., Polman, N., Reyer, C.P.O., Schulze, E.-D., Seidl, R., de Vries, W., Werners, S.E., Winkel, G., Yousefpour, R. Roadmap to develop a stress test for forest ecosystem services supply. *One Earth*, 5, 25–34. <https://doi.org/10.1016/j.oneear.2021.12.009>
- Kunttu, J., Wallius, V., Kulvik, M., Leskinen, P., Lintunen, J., Orfanidou, T., Tuomasjukka, D. Exploring 2040: Global trends and international policies setting frames for Finnish wood-based economy. *Sustainability* 14, 9999. <https://doi.org/10.3390/su14169999>
- Larasatie, P., Karisch-Gierer, D., Ludvig, A. Women's Woodland Owner Network: A Comparative Case Study of Oregon (the United States) and Austria. *Land*, 11, 1653. <https://doi.org/10.3390/land11101653>
- Lax, C., Weiss, G., Vacik, H. Nichtholzprodukte heimischer Wälder. *Österreichische Forstzeitung*, 04, 28–30. <https://www.forstzeitung.at/markt/2022/04/nichtholzprodukte.html>
- Ledermann, T., Braun, M., Kindermann, G., Jandl, R., Ludvig, A., Schadauer, K., Schwarzbauer, P., Weiss, P. Effects of Silvicultural Adaptation Measures on Carbon Stock of Austrian Forests. *Forests*, 13, 565. <https://doi.org/10.3390/f13040565>
- Lier, M., Köhl, M., Korhonen, K., Linser, S., Prins, K., Talarczyk, A. The New EU Forest Strategy for 2030: A New Understanding of Sustainable Forest Management? *Forests*, 13, 20. <https://doi.org/10.3390/f13020245>
- Linser, S., Wolfslehner, B. National Implementation of the Forest Europe Indicators for Sustainable Forest Management. *Forests*, 13(2), 191. <https://doi.org/10.3390/f13020191>
- Low, M. C., Schmitz, N., Boeschoten, L. E., Cabezas, J. A., Cramm, M., Haag, V., Koch, G., Meyer-Sand, B. R., Paredes-Villanueva, K., Price, E., Thornhill, A. H., Van Brusselen, J., Zuidema, P. A., Deklerck, V., Dormontt, E. E., Shapcott, A., Lowe, A. J. Tracing the world's timber: the status of scientific verification technologies for species and origin identification. *Journal of the International Association of Wood Anatomists* 44(1), 63–84. <https://doi.org/10.1163/22941932-bja10097>
- Malkamäki, A., Korhonen, J.E., Berghall, S., Rustas, C.B., Berno, H., Carreira, A., D'Amato, D., Dobrovolsky, A., Giertliova, B., Holmgren, S., Mark-Herbert, C., Masiero, M., Nagy, E., Navratilova, L., Puelzl, H., Ranather, L., Secco, L., Suomala, T., Toppinen, A., Valsta, L., Vybostok, J., Zellweger, J. Public perceptions of using forests to fuel the European bioeconomy: Findings from eight university cities. *Forest Policy and Economics*, 140, 102749. <https://doi.org/10.1016/j.forpol.2022.102749>
- Mann, C., Loft, L., Hernández-Morcillo, M., Primmer, E., Lovrić, M., Bussola, F., Falco, E., Geneletti, D., Dobrowolska, E., Grossmann, C.M., Bottaro, G. and Schleyer, C. Governance innovations for forest ecosystem service provision – Insights from an EU-wide survey. *Environmental Science & Policy*, 132, 282–295. <https://doi.org/10.1016/j.envsci.2022.02.032>
- Marini Govigli, V., Rois-Díaz, M., den Herder, M., Bryce, R., Tuomasjukka, D., Górriz-Mifsud, E. The green side of social innovation: Using sustainable development goals to classify environmental impacts of rural grassroots initiatives. *Environmental Policy and Governance* 32, 459–477. <https://doi.org/10.1002/eet.2019>
- Maximo, Y.I., Hassegawa, M., Verkerk, P.J., Missio, A. Forest Bioeconomy in Brazil: Potential innovative products from the forest sector. *Land*, 11(8), 1297. <https://doi.org/10.3390/land11081297>
- Montoya-Zumaeta, J. G., Wunder, S., Rojas, E., Duchelle, A. E. Does REDD+ Complement Law Enforcement? Evaluating Impacts of an Incipient Initiative in Madre de Dios, Peru. *Frontiers in Forests and Global Change*, 5, 870450. <https://doi.org/10.3389/ffgc.2022.870450>
- Myllyviita, T., Hurmekoski, E., Kunttu, J. Substitution impacts of Nordic wood-based multi-story building types: influence of the decarbonization of the energy sector and increased recycling of construction materials. *Carbon Balance and Management*, 17, 4. <https://doi.org/10.1186/s13021-022-00205-x>
- Ottaviani Aalmo, G., Gioli, B., Rodriguez, D.G.P., Tuomasjukka, D., Liu, H.-Y., Pastore, M.C., Salbitano, F., Bogetoft, P., Sæbø, A., Konijnendijk, C. Development of a novel framework for the assessment and improvement of climate adaptation and mitigation actions in Europe. *Frontiers in Sustainable Cities*, 4:833098. <https://doi.org/10.3389/frsc.2022.833098>

- Patacca, M., Lindner, M., Lucas-Borja, M.E., Cordonnier, T., Fidej, G., Gardiner, B., Hauf, Y., Jasinevičius, G., Labonne, S., Linkevičius, E., Mahnken, M., Milanovic, S., Nabuurs, G.-J., Nagel, T.A., Nikinmaa, L., Panyatov, M., Bercak, R., Seidl, R., Sever, M.Z.O., Socha, J., Thom, D., Vuletic, D., Zudin, S., Schelhaas, M.-J. Significant increase in natural disturbance impacts on European forests since 1950. *Global Change Biology*, 29, 1359–1376. <https://doi.org/10.1111/gcb.16531>
- Picard, N., Marchi, M., Serra-Varela, M.J., Westergren, M., Cavers, S., Notivol, E., Piotti, A., Alizoti, P., Bozzano, M., González-Martínez, S.C., Grivet, D., Aravanopoulos, F.A., Vendramin, G.G., Ducci, F., Fady, B., Alía, R. Marginality indices for biodiversity conservation in forest trees. *Ecological Indicators*, 143, 109367. <https://doi.org/10.1016/j.ecolind.2022.109367>
- Pyka, A., Cardellini, G., van Meijl, H., Verkerk, P.J. Modelling the bioeconomy: Emerging approaches to address policy needs. *Journal of Cleaner Production*, 129801. <https://doi.org/10.1016/j.jclepro.2021.129801>
- Roux, J.-L., Konczal, A., Bernasconi, A., Bhagwat, S., De Vreese, R., Doimo, I., Marini Govigli, V. Kašpar, J. Kohsaka, R., Pettenella, D., Plieninger, T., Shakeri, Z., Shibata, S., Stara, K., Takahashi, T., Torralba, M., Tyrväinen, L., Weiss, G., Winkel, G. Exploring evolving spiritual values of forests in Europe and Asia – a transition hypothesis towards re-spiritualizing forests. *Ecology & Society* 27, 4. <https://doi.org/10.5751/ES-13509-270420>
- Salomón, R.L., Peters, R.L., Zweifel, R., Sass-Klaassen, U.G.W., Stegehuis, A.I., Smiljanic, M., Poyatos, R., Babst, F., Cienciala, E., Fonti, P., Lerink, B.J.W., Lindner, M., Martinez-Vilalta, J., Mencuccini, M., Nabuurs, G.-J., van der Maaten, E., von Arx, G., Bär, A., Akhmetzhanov, L., Balanzategui, D., Bellan, M., Bendix, J., Berveiller, D., Blaženek, M., Čada, V., Carraro, V., Cecchini, S., Chan, T., Conedera, M., Delpierre, N., Delzon, S., Ditmarová, L., Dolezal, J., Dufrière, E., Edvardsson, J., Ehekircher, S., Forner, A., Frouz, J., Ganthaler, A., Gryc, V., Güney, A., Heinrich, I., Hentschel, R., Janda, P., Ježík, M., Kahle, H.-P., Knüsel, S., Krejza, J., Kuberski, Ł., Kučera, J., Lebourgeois, F., Mikoláš, M., Matula, R., Mayr, S., Oberhuber, W., Obojes, N., Osborne, B., Paljakka, T., Plichta, R., Rabbel, I., Rathgeber, C.B.K., Salmon, Y., Saunders, M., Scharnweber, T., Sitková, Z., Stangler, D.F., Stereńczak, K., Stojanović, M., Střelcová, K., Světlík, J., Svoboda, M., Tobin, B., Trotsiuk, V., Urban, J., Valladares, F., Vavřík, H., Vejpustková, M., Walthert, L., Wilmking, M., Zín, E., Zou, J., Steppe, K. The 2018 European heatwave led to stem dehydration but not to consistent growth reductions in forests. *Nature Communications*, 13, 28. <https://doi.org/10.1038/s41467-021-27579-9>
- Sarkki, S., Ludvig, A., Nijnik, M., Kopyi, S. Embracing policy paradoxes: EU's Just Transition Fund and the aim "to leave no one behind". *International Environmental Agreements: Politics, Law and Economics*, 22, 761–792. <https://doi.org/10.1007/s10784-022-09584-5>
- Soimakallio, S., Böttcher, H., Niemi, J., Mosley, F., Turunen, S., Hennenberg, K., Reise, J., Fehrenbach, H. Closing an open balance: the impact of increased tree harvest on forest carbon. *GCB Bioenergy*, 14, 989–1000. <https://doi.org/10.1111/gcbb.12981>
- Starfinger, M., Thi Tham, L., Tegegne, Y. T. Tree collateral – A finance blind spot for small-scale forestry? A realist synthesis review. *Forest Policy and Economics*, 147, 102886. <https://doi.org/10.1016/j.forpol.2022.102886>
- Tegegne, Y.T., Ramcilovic-Suominen, S., Kotilainen, J., Winkel, G., Haywood, A., Almaw, A. What drives forest rule compliance behaviour in the Congo Basin? A study of local communities in Cameroon. *Land Use Policy*, 15, 106012. <https://doi.org/10.1016/j.landusepol.2022.106012>
- Vajana, E., Bozzano, M., Marchi, M., Piotti, A. On the Inclusion of Adaptive Potential in Species Distribution Models: Towards a Genomic-Informed Approach to Forest Management and Conservation. *Environments*, 10(1), 3. <https://doi.org/10.3390/environments10010003>
- Wallius, V., Kunttu, J., Leskinen, P., Van Brusselen, J., Näyhä, A. Stakeholder perceptions of wood-based products in the built environment: a literature review. *European Journal of Wood and Wood Products*, 81, 287–299. <https://doi.org/10.1007/s00107-022-01905-4>
- Wilkes-Allemann, J., Ludvig, A., Gobs, S., Lieberherr, E., Hogn, K., Selter, A. Getting a grip on negotiation processes: Addressing trade-offs in mountain biking in Austria, Germany and Switzerland. *Forest Policy and Economics*, 136, 102683. <https://doi.org/10.1016/j.forpol.2021.102683>
- Winkel, G., Lovrić, M., Muys, B., Katila, P., Lundhede, T., Pecurul, M., Pettenella, D., Pipart, N., Plieninger, T., Prokofieva, I., Parra, C., Pülzl, H., Roitsch, D., Roux, J.-L., Thorsen, B. J., Tyrväinen, L., Torralba, M., Vacik, H., Weiss, G., Wunder, S. Governing Europe's forests for multiple ecosystem services: Opportunities, challenges, and policy options. *Forest Policy and Economics*, 145, 102849. <https://doi.org/10.1016/j.forpol.2022.102849>
- Winkel, G., Lovrić, M., Muys, B., Katila, P., Lundhede, T., Pecurul, M., Pettenella, D., Pipart, N., Plieninger, T., Prokofieva, I., Parra, C., Pülzl, H., Roitsch, D., Roux, J.L., Thorsen, B.J., Tyrväinen, L., Torralba, M., Vacik, H., Weiss, G., Wunder, S. Governing Europe's forests for multiple ecosystem services: Opportunities, challenges, and policy options. *Forest Policy and Economics*, 145, 10284. <https://doi.org/10.1016/j.forpol.2022.102849>
- Winkel, G., Lovrić, M., Muys, B., Katila, P., Lundhede, T., Pecurul, M., ... & Wunder, S. 2022. Governing Europe's forests for multiple ecosystem services: Opportunities, challenges, and policy options. *Forest Policy and Economics*, 145, 102849. <https://doi.org/10.1016/j.forpol.2022.102849>
- Winkel, G., Lovrić, M., Muys, B., Katila, P., Lundhede, T., Pecurul, M., Pettenella, D., Pipart, N., Plieninger, T., Prokofieva, I., Parra, C., Pülzl, H., Roitsch, D., Roux, J.-L., Thorsen, B.J., Tyrväinen, L., Torralba, M., Vacik, H., Weiss, G., Wunder, S. 2022. Governing Europe's forests for multiple ecosystem services: Opportunities, challenges, and policy options. *Forest Policy and Economics*, 145, 102849. <https://doi.org/10.1016/j.forpol.2022.102849>

- Wohlgemuth, T., Gossner, M.M., Campagnaro, T., Marchante, H., van Loo, M., Vacchiano, G., Castro-Díez, P., Dobrowolska, D., Gazda, A., Keren, S., Keserű, Z., Koprowski, M., La Porta, N., Marozas, V., Nygaard, P.H., Podrázský, V., Puchatka, R., Reisman-Berman, O., Straigytė, L., Ylioja, T., Pötzelsberger, E., Silva, J.S. Impact of non-native tree species in Europe on soil properties and biodiversity: a review. *NeoBiota* 78, 45–69. <https://doi.org/10.3897/neobiota.78.87022>
- Zudin, S., Heintz, W., Kraus, D., Krumm, F., Larrieu, L., Schuck, S. A spatially explicit database of tree related microhabitats in Europe and beyond. *Biodiversity Data Journal* 10: e91385. <https://doi.org/10.3897/BDJ.10.e91385>
- **Other**
- Achieng Owuor, J., Whitehead, I., De Vreese, R. Unlocking the Potential of Urban Forests: Developing a Local Urban Forestry Action Plan. <https://www.uforest.eu/news/project-updates/urban-forestry-action-plan/>
- Anttila, P., Verkerk, H. Forest Biomass Availability. In: Hetemäki, L., Kangas, J., Peltola, H. (eds) *Forest Bioeconomy and Climate Change. Managing Forest Ecosystems*, vol 42. Springer, Cham. [https://doi.org/10.1007/978-3-030-99206-4\\_5](https://doi.org/10.1007/978-3-030-99206-4_5)
- Berg-Andersson, B., Kulvik, M., Lintunen, J., Kunttu, J., Orfanidou, T. Structural Changes in the Finnish Forest-based Sector, and Market and Employment Impacts in 2040. *ETLA Raportit – Reports* 131. <https://www.etla.fi/wp-content/uploads/ETLA-Raportit-Reports-131.pdf>
- Bou Dagher-Kharrat, M., de Arano, I. M., Zeki-Başken, E., Feder, S., Adams, S., Briers, S., Fady, B., Lefèvre, F., Górriz-Mifsud, E., Mauri, E., Mavsar, R., Muys, B., Nocentini, S., Pettenella, D., Peñuelas, J., Sardans, J., Secco, L., Travaglini, D., Tripodi, G., Wunder, S., Bozzano, M. 2022. *Mediterranean Forest Research Agenda 2030*. European Forest Institute. <https://doi.org/10.36333/rs5>
- den Herder, M., Wallius, V., Konu, H., Heräjärvi, H., Viitanen, J., Mutanen, A., Kurttila, M., Chen, X. Developing forest-based bioeconomy in the Region of North Karelia, Finland: Opportunities in co-operation with China. *Natural resources and bioeconomy studies* 8/2022. Natural Resources Institute Finland. <http://urn.fi/URN:ISBN:978-952-380-362-6>
- Gong, P., Knutsson, A., Elofsson, K. Styrmedel för att öka kolsänkor i skogssektorn. Naturvårdsverket. Rapport 7037. <https://www.naturvardsverket.se/globalassets/media/publikationer-pdf/7000/978-91-620-7037-3.pdf>
- Hetemäki, L., Verkerk, H. Climate-Smart Forestry Approach. In: Hetemäki, L., Kangas, J., Peltola, H. (eds) *Forest Bioeconomy and Climate Change. Managing Forest Ecosystems*, vol 42. Springer, Cham. [https://doi.org/10.1007/978-3-030-99206-4\\_9](https://doi.org/10.1007/978-3-030-99206-4_9)
- Lages, L.F., Catarino, N., Grosso, N., Reis Marques, C., Asgari, O., Borde, S.M., Toh, P., Van Der Schalie, R., Fantin, D., Van Brusselen, J., Figueiredo, R. Value creation in space business and commercialization of earth observation services: The case of an EU H2020 Project. *Proceedings from the 5th Conference of Creating Value*, 2–4 September 2022, Kanazawa, Japan. [https://pcojapan-online.com/uploads/Proceedings%20from%20the%205th%20Global%20Conference%20in%20Creating%20Value%20\(1\).pdf](https://pcojapan-online.com/uploads/Proceedings%20from%20the%205th%20Global%20Conference%20in%20Creating%20Value%20(1).pdf)
- Linser, S., Prins, K. An assessment of uptake of the global core set of forest-related indicators. Rome, FAO. <https://doi.org/10.4060/cc2223e>
- Ludvig, A., Diaconescu, A. Social innovation and the forest bioeconomy: challenges and prospects for Romania. In: Giurcă, A., Dima, P. (Eds.). *The Plan B for Romania's Forests and Society*, 7, Editura Universităţii "Transilvania", Braşov.
- Ludvig, A. Die Auswirkung von Gender Balance auf die Wertschöpfungskette Holz: Frauen in Führung und Management. *Bundesministerium für Landwirtschaft, Regionen und Tourismus*, 63.
- Nisbet, T.R., Andreuci, M.B., De Vreese, R., Högbom, L., Kay, S., Kelly-Quinn, M., Leonardi, A., Lyubenova, M.I., Ovando Pol, P., Quinteiro, P., Têrez Silos, I., Valatin, G. Forest green infrastructure to protect water quality: A step-by-step guide for payment schemes. In: Nakamura F. (Ed.). *Green Infrastructure and Climate Change Adaptation*, pp. 105–134. <https://doi.org/10.1007/978-981-16-6791-6>
- Sentić, I., Živojinović, I., Tomičević-Dubljević, J. Sustainability versus aesthetics in landscape architecture. In: Ostojić, J, Cig, A, Sustainable practices in horticulture and landscape architecture, 3–34. Iksad Publications, Ankara, Turkey.
- Verkerk, P.J., Hassegawa, M., Van Brusselen, J., Cramm, M., Chen, X., Maximo, Y. I., Koç, M., Lovrić, M. and Tegegne, Y. T. The role of forest products in the global bioeconomy – Enabling substitution by wood-based products and contributing to the Sustainable Development Goals. Rome, FAO. <https://doi.org/10.4060/cb7274en>
- Weiss, G., Pülzl, H., Ludvig, A., Zivojinovic, I., Linser, S., Winkel, G. Politische Optionen zur Sicherung der Waldökosystemdienstleistungen. *Bundesministerium für Land- und Forstwirtschaft, Regionen und Wasserwirtschaft*, 36.
- Widmark, C., Persichina, M. The bioeconomy, circularity, and sustainability-How the concepts are conceptualized in the forestry sector. *CERE working paper*. 2/2022. <https://www.mistradigital.cdn.triggerfish.cloud/uploads/2022/12/ssrn-id4112706.pdf>
- Wilkes-Allemann, J., van der Velde, R., Kopp, M., Bernasconi, A., Karaca, E., Coleman Brantschen, E., Cepic, S., Tomicevic-Dubljevic, J., Bauer, N., Petit-Boix, A., Cueva, J., Živojinović, I., Leipold, S. and Saha, S. 2022. *Research Agenda – Biocities of the future*. European Forest Institute. <https://doi.org/10.36333/rs4>

# Income statement

|   | 2022 / EUR            | 2021 / EUR            |
|---|-----------------------|-----------------------|
| <b>■ ORDINARY OPERATIONS</b>                      |                       |                       |
| Project income                                    | 16 128 184.94         | 14 408 374.98         |
| Project expenses                                  |                       |                       |
| Staff expenses                                    | -9 271 839.29         | -8 859 666.17         |
| Depreciation                                      | -844.61               | 714.41                |
| Other expenses                                    | -5 451 275.95         | -4 638 815.99         |
| <b>Project expenses total</b>                     | <b>-14 723 959.85</b> | <b>-13 497 767.75</b> |
| <b>GROSS SURPLUS/DEFICIT FROM PROJECTS</b>        | <b>1 404 225.09</b>   | <b>910 607.23</b>     |
| <b>Other expenses</b>                             |                       |                       |
| Staff expenses                                    | -2 217 392.29         | -1 667 393.69         |
| Depreciation                                      | -20 166.89            | -26 652.13            |
| Other expenses                                    | -1 351 625.13         | -1 092 642.01         |
| <b>Other expenses total</b>                       | <b>-3 589 184.31</b>  | <b>-2 786 687.83</b>  |
| <b>■ OTHER INCOME</b>                             |                       |                       |
| Other income                                      | 13 370.76             | -14 597.95            |
| Membership fees                                   | 210 175.00            | 199 850.00            |
| Transfer to EFI network fund                      | -210 118.00           | -199 150.00           |
| <b>Other income total</b>                         | <b>13 427.76</b>      | <b>-13 897.95</b>     |
| <b>■ SUBSIDIES</b>                                |                       |                       |
| Subsidies government                              | 2 406 666.66          | 2 338 000.00          |
| <b>Subsidies total</b>                            | <b>2 406 666.66</b>   | <b>2 338 000.00</b>   |
| <b>■ INVESTMENTS AND FINANCIAL ACTIVITIES</b>     |                       |                       |
| Income  | 14 569.99             | 0.00                  |
| Expenses  | -21 648.15            | -24 889.29            |
| <b>Investments and financial activities total</b> | <b>-7 078.16</b>      | <b>-24 889.29</b>     |
| <b>■ SURPLUS/DEFICIT OF THE FINANCIAL YEAR</b>    | <b>228 057.04</b>     | <b>423 132.16</b>     |

# Balance Sheet

|  | 2022 / EUR           | 2021 / EUR           |
|--|----------------------|----------------------|
| <b>■ ASSETS</b>  |                      |                      |
| <b>Non-current assets</b>                                |                      |                      |
| Intangible assets - other capitalised long-term expenses | 346.66               | 831.99               |
| Tangible assets - machinery and equipment                | 21500.87             | 21163.58             |
| <b>Non-current assets total</b>                          | <b>21 847.53</b>     | <b>21 995.57</b>     |
| <b>Current assets</b>                                    |                      |                      |
| Current receivables                                      |                      |                      |
| Accounts receivable                                      | 94 987.54            | 62 350.00            |
| Accrued income and prepaid expenses                      | 42 409.75            | 47 403.97            |
| Project & subsidy receivables                            | 613 417.98           | 776 998.48           |
| Vat receivables  | 156 581.34           | 107 432.26           |
| Prepaid expenses   | 150 421.64           | 244 023.26           |
| Investments  | 400 000.00           | 200 000.00           |
| Current receivables                                      | 1 457 818.25         | 1 438 207.97         |
| Cash in hand and at banks                                | 16 278 147.02        | 13 743 906.79        |
| <b>Current assets total</b>                              | <b>17 735 965.27</b> | <b>15 182 114.76</b> |
| <b>■ ASSETS</b>  | <b>17 757 812.80</b> | <b>15 204 110.33</b> |
| <b>■ LIABILITIES</b>                                     |                      |                      |
| <b>Equity</b>  |                      |                      |
| Surplus (deficit) from previous periods                  | 2 568 069.92         | 2 144 937.77         |
| EFI network fund   | 628 209.98           | 463 091.98           |
| Surplus (deficit) for the period                         | 228 057.04           | 423 132.16           |
| <b>Total equity</b>                                      | <b>3 424 336.94</b>  | <b>3 031 161.91</b>  |
| <b>Liabilities</b>                                       |                      |                      |
| Current liabilities                                      |                      |                      |
| Advanced payments received - multi-donor trust fund      | 2 626 444.27         | 4 632 580.98         |
| Other advance payments received                          | 9 860 293.40         | 5 258 569.65         |
| Purchases payables                                       | 1 081 055.78         | 880 588.11           |
| Accrued liabilities and deferred income                  | 528 710.91           | 566 171.41           |
| Partner liabilities                                      | -2 485.67            | 733 379.36           |
| Other liabilities  | 239 457.17           | 101 658.91           |
| Current liabilities                                      | 14 333 475.86        | 12 172 948.42        |
| <b>Total liabilities</b>                                 | <b>14 333 475.86</b> | <b>12 172 948.42</b> |
| <b>■ LIABILITIES</b>                                     | <b>17 757 812.80</b> | <b>15 204 110.33</b> |



**EUROPEAN FOREST  
INSTITUTE**

Yliopistokatu 6B | 80100 Joensuu | FINLAND

Tel: +358 10 773 4300

[www.efi.int](http://www.efi.int)

COVER PHOTO Michele Curel | LAYOUT Grano Oy