

Newsletter #4

November 2019

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Greetings from the coordinator (Mika KALLIO, MMM, FI)

Again, a lot has happened after we published our previous newsletter in June. The 17 projects selected for funding under the 1st trans-national ForestValue Joint Call (JC2017) have been busy with their first-year activities (some news following in this newsletter) and in October the ForestValue consortium arranged a successful outreach seminar for international collaboration in Buenos Aires to create new opportunities for cooperation and joint funding between Europe and South/Central America in the field of forest-based Bioeconomy, more about this later in the newsletter, too.

One major effort during the past months was related to the strategic planning process of Horizon Europe (HE) - the next research and innovation framework programme for 2021-2027. The effort was initiated late April 2019 when the European Commission launched a "Structured Consultation of Member States via the Shadow Configuration of the Strategic Programme Committee" with the aim to gather input of Member States (MS) on the HE portfolio and all individual partnership candidates (originally 44 were proposed), the MS were then given only around 4 weeks to collect their national answers to the consultation (deadline for responses was 28 May).

The ForestValue partners discovered that among the proposed European Partnerships there was no forest sector proposal included in any of the Clusters, not even in the most relevant Cluster 6 "Food, Bioeconomy, Natural Resources, Agriculture and Environment". In its meeting on 22 May the ForestValue Steering Committee decided to take this up in the partners' national answers to the EC consultation.

... please continue reading on page 2



Greetings from the coordinator

... continuation from page 1

However, it turned out that in many countries the answers had already been collected and now it was only Finland that managed to include a relevant comment in its national reply, thanks to the active engagement of the Ministry of Agriculture and Forestry. This is how the initiative then became to be led by Finland.

The proposal was strongly supported by SCAR FOREST – The Strategic Working Group on Forests and Forestry Research and Innovation under the Standing Committee on Agricultural Research (SCAR). In its meeting on 13 June the SCAR FOREST group decided to call a “revision team” to build up a revised proposal and to invite the MS to support the proposed partnership initiative (this was done via several networks such as The European Forest-Based Sector Technology Platform (FTP), The European Forest Institute (EFI), Innovawood and BIOEAST).

At the 3rd meeting of the HE Shadow Committee on 27-28 June in Brussels the Commission introduced the new partnership proposals and among the proposed 25 additional partnerships eight were invited for further discussions, one of them was our forestry proposal. The decision initiated a tough revision process with a few other deadlines but then, unfortunately, after the HE Shadow Committee meeting on 24 October the European Commission announced that our proposal “European Partnership for Future Forests and Forestry: strengthening trans-national R&I cooperation in the forest-based sector and beyond” was not selected due to the following: “The topics Forestry and [...] were proposed by one or few delegations. They are potentially relevant, but would be covered by traditional calls under the Horizon Europe Work Programmes or, in the case of forestry, be partially addressed under other partnerships.”

Although our effort was not enough to convince the Commission and the MS on the need to have a separate partnership focussing on forests and forestry, we keep on working and are screening for new possibilities to have a continuation for our present work under the Horizon Europe, too. And, ForestValue will still continue until 09/2022 with a number of new actions coming, please just follow our news channels.

Now, up here in the north the weather is getting colder day by day, and we have already got the first snow in most parts of the country. This already reminds me of the closing Christmas and I would therefore like to take this opportunity already now to thank you all for the past year and to wish you all a very **MERRY CHRISTMAS!**



Mika Kallio, MMM, ForestValue coordinator

* Outreach seminar for international collaboration *

8./9.10.2019, Buenos Aires

Innovative Forest-Based Bioeconomy for the Future

The international workshop “Innovative Forest-Based Bioeconomy for the Future” provided a platform for all initiatives engaged in forest-based Bioeconomy in Europe and Latin America. Ca. 70 participants from academia, industry and governmental organisations learned about current research (funding) activities in several Latin American countries and discussed opportunities for transatlantic cooperation and joint funding in the field of forest-based Bioeconomy.

FUNDING AGENCIES: In the central session on funding opportunities representatives of funding institutions from **Argentina (SGCTeIP)**, **Brazil (EMBRAPA)**, **Colombia (MADS)**, **Costa Rica (MICITT)**, **Ecuador (SENESCYT)**, **Uruguay (ANII)** and **Paraguay (IPTA)** explained the country-specific situations and current funding programs in the field of bioeconomy, especially forestry & innovative uses of wood. A number of very good initiatives were highlighted, as well as possible opportunities for cooperation. One key difference to European initiatives is the higher interest & research need on issues looking at biodiversity, non-timber-forest-products & agroforestry in South America. And unfortunately many initiatives shared a common obstacle: the unstable political & connected economic national situations (e.g. in Brazil, Ecuador, and Colombia), leading to scarce funding possibilities.

Among the presenting funding agencies from Europe was the **Finnish ministry MMM** as well as **FNR from Germany**. The cooperation interests of the Swedish, Polish, Irish and Turkish ForestValue partners as some more European funders were shown as well. The self-funded ERA-NET **CORNET** (to increase the competitiveness of SMEs) and **EUCELAC** (connecting the EU and Latin America and Caribbean) were presented and are a very good start for cooperation for different stakeholder groups. This session was complemented by an overview on **H2020 funding opportunities**, which was followed with great interest as well.



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* Outreach seminar for international collaboration * Innovative Forest-Based Bioeconomy for the Future

RESEARCHERS: The majority of participants were Argentinian researchers working in research initiatives with different scopes and in various Argentinian landscape zones. Very beneficial to them was the second day of the seminar, which offered insights and connections to research institutions and current projects from **Chile (INFOR), Argentina (CIEFAP, CONICET, INTA, DNCEI, BIO-TECH II) and Uruguay (INIA)**. Cooperation interests of some EU research institutions were displayed as well – so the 1st step to connecting & initiating cooperation was taken. Still it became evident that there is high interest of Latin American researchers to connect to EU researchers - the ForestValue network will investigate the options for supporting these connections.

RESULTS: Breaks and breakout sessions during the seminar offered excellent networking opportunities between scientists, funders and policy makers – e.g. already on the first day there was a “speed networking” session breaking the ice between the participants. Thus - the outreach seminar was very successful in its main focus: networking – all participants connected to new initiatives and professionals and many first steps for collaborations were taken.

More precise results can be concluded looking at the summaries of the 2 parallel sessions:

GROUP A – FUNDERS: Discussion on Joint Funding options (In a small group of funders from FIN, ECU, ARG, BRA, DEU, GER, URY, PRY the following real options for cooperation were discussed:

- Participation of SA funders in the possible next ForestValue call
- Possibility of a call where national agencies could participate with their own regulations including the private sector, starting from small collaborations with minimum commitments.
- Participation of SA funders in future network after end of ForestValue after 2020
- Bilateral cooperation
- Also, global funds for climate could be good start, e.g. JPI Climate, Belmont-Forum
- Given that funding is scarce for many LA agencies at the moment, in-kind participation for national institutions could be explored.



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* Outreach seminar for international collaboration * Innovative Forest-Based Bioeconomy for the Future

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GROUP B – RESEARCHERS: Discussion on needs of the researcher community

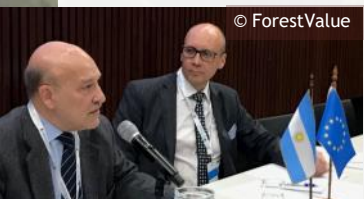
The group of researchers came to the conclusion, that there is a high need for interlinking and consolidating synergies with groups working on similar topics. As a first step to collaboration, information / dissemination of R&D results is needed. Thus, the main interest of this group was in connecting further & learning from the inspiring ideas & information the group was sharing:

- There is a research need on utilization of biomass waste: in particular industrial forest-based waste.
- There are already programs for the improvement of the characterization of wood biodiversity.
- Potential funding mechanisms are 2 ongoing networks by CYTED on bioenergy/bioproducts. www.cytel.org/es/1%2Bd_redes
- There is a project that tackles climate change in Mendoza with natural based solutions, in particular by greening through planting forest.
- Very useful would be the creation of a national/regional forestry research network.
- Initiatives such as UN-ECLAC-CEPAL should be used as a hub for enhancing collaboration opportunities and networking.

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* Outreach seminar for international collaboration * Innovative Forest-Based Bioeconomy for the Future

Overall, the seminar can be regarded as a good first step to increased collaboration and potential joint funding of R&D projects in the field of forestry and sustainable use of wood between the European Union and Latin America.

INTERESTING LINKS ON EU – LATIN AMERICAN COOPERATION:

- [EU-CELAC Platform](#) intends to serve as an information & communication site for funding agencies, universities, research centres, enterprises and individuals interested in the bi-regional cooperation European Union – Latin America and Caribbean on Research and Innovation.
- [2020 ERC Starting Grant call](#) has opened.
- [CORNET](#) is a network of ministries and funding agencies that combine their existing funding schemes to increase the competitiveness of small and medium-sized enterprises (SMEs). In this

© ForestValue

way, CORNET supports new funding organisations worldwide to introduce pilot actions and schemes for pre-competitive Collective Research. Twice a year CORNET issues calls for proposals for international Collective Research projects. The calls follow a bottom-up approach: every topic that supports SMEs in their innovation efforts is welcome.

- JPI Climate – Coordination and Support Action (CSA) SINCERE: Strengthening International Cooperation on climate change Research – [Task 4.2. Flagship Action for Latin America](#).
- Publication: Bioeconomy: New Framework for Sustainable Growth in Latin America. (2019) [pdf](#) Guy Henry, Elizabeth Hodson de Jaramillo, Eduardo Trigo, academic editors. Colombia: Editorial Pontificia Universidad Javeriana.



In the framework of the ForestValue project this event was jointly organised by SGCTeP (Secretaría de Ciencia, Tecnología e Innovación Productiva de la Nación; Argentina) and FNR (Agency for Renewable Resources; Germany).



ForestValue JC2017 – co-funded projects

Smallwood aims to utilize biomass from small trees. A within the project updated version of a multi tree felling head and a new working method named “boom corridor thinning” was studied with conventional selective thinning as reference method. Field excursions in both Sweden and Finland followed the studies with focus on the visual silvicultural difference. The reaction from the external visitors was that they could not see any obvious differences. The analyses of the field data will show eventual measurable differences in silvicultural results or in productivity during the harvest. The studies will be repeated in Slovenia and Spain.

www.smallwood.eu/



SMALLWOOD

Small diameter wood utilization with innovative stand management for multifunctional forests & a growing sustainable bio-economy



© SMALLWOOD

A drone photo taken at the field excursion in Bräcke, Sweden October 2019

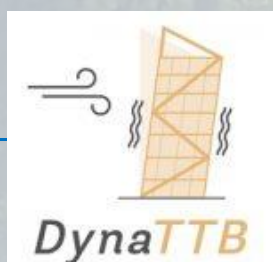


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ForestValue JC2017 – co-funded projects



www.dynattb.com

www.linkedin.com/company/dynattb/

DYNATTB Dynamic Response of Tall Timber Buildings under Service Load

"The DynaTTB project has started the work on creating Finite element models for measurement planning on several tall timber buildings. The first forced vibrations tests and acceleration measurements are planned to take place on a building in Paris in late November 2019. During the spring of 2020 several more tall timber buildings will be modelled and measured in Norway, Sweden, France, UK and Slovenia."



www.researchgate.net/project/DynaTTB-Dynamic-Response-of-Tall-Timber-Buildings-under-Service-Load



FIRENWOOD

"A project meeting and the very first workshop in FIRENWOOD was held on 7-8 August 2019 at the Technical University of Munich. Partners and invited stakeholders presented the project and discussed obstacles and new strategies for implementation and use of engineered wood systems in construction. A report from the workshop will be finalized in November."

FIRENWOOD

Improved fire design of engineered wood systems in buildings

<https://rise.fr.com/services/research-and-assessments/firewood>

www.researchgate.net/project/FIRENWOOD-Improved-fire-design-of-engineered-wood-systems-in-buildings



STRONGCOM-POSITE

A novel material concept for high strength cellulose composites

© FCBA

Frey and coworkers from ETH Zurich and Empa, Switzerland have published the research article: **Delignified Wood-Polymer Interpenetrating Composites Exceeding the Rule of Mixtures in the Journal ACS Applied Materials & Interfaces** (<https://pubs.acs.org/doi/10.1021/acsami.9b11105>). The article deals with the production of a fiber composite by VARI infiltration of epoxy into a wood-derived cellulose scaffold followed by densification. Very high tensile stiffness (up to 70 GPa) and tensile strength (up to 600 MPa) were achieved.



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ValoFor
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VALOFOR

Small Forests – Big Players: Valorising small scale forestry for a bio-based economy

www.researchgate.net/project/ValoFor-Small-Forests-Big-Players-Valorising-small-scale-forestry-for-a-bio-based-economy-a-ForestValue-project
<https://twitter.com/ValoForP>

The prospect of bioeconomy in Europe depends strongly on small forest owners that manage about 60% of European forests. In early November, the team of ValoFor (Small Forests - Big Players: Valorising small scale forestry for a bio-based economy) met in Helsinki for its second meeting. Major achievements so far are the finalization of a survey and choice experiment for small forest owners in five partners countries, where owners are being asked for its reception on different management scenarios: 1) nature-oriented; 2) timber oriented; 3) no management; 4) business as usual. Furthermore, these scenarios are being transferred into forest growth models to estimates its effects on timber production and provision of ecosystem services.



© ValoFor

ValoFor Consortium meeting



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INNOCROSSLAM Innovative Solutions for Cross Laminated Timber Structures

www.innocrosslam.zag.si

The main task of the innocrosslam project in the first year is to establish a good cooperation with the industry, structural designers and architects. By this a good ground is prepared for the state-of-the art research and also a broader community is found which is interested in the final project results. For this reason, the project was presented to multiple interested parties within the ForestValue consortium as well as to many others. Additionally, a questionnaire was prepared, by which it will be discovered what are the main lacks of engineers in the current design practice of modern CLT structures.



MULTIFOREVER kick-off meeting, July 3, 2019

The kick-off meeting was held at the Humboldt-Universität zu Berlin (HUB), Germany, during July 03-05, 2019. All 7 partners from both EU and Argentina were represented. The first day was devoted to the team presentations and WP related to project management, communication and somatic embryogenesis from mature trees. After strong team-building activities, day 2 was spent visiting the forest nursery Staatsbetrieb Sachsenforst (HUB's subcontractor) and discussing plant production, field testing as well as scaling-up objectives for production and business opportunities. The last day was focused on somatic embryogenesis from seeds, the most advanced strategy to implement multi-varietal forestry in conifers.



MULTIFOREVER

Towards intensification of conifer production through multi-varietal forestry based on somatic embryogenesis



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ForestValue JC2017 – co-funded projects



MultiForest

“The official Multiforest Kick-Off meeting was held at the University of Jyväskylä in late August 2019. However, this was not the projects first meeting: virtual meetings in May and June were held to facilitate the development of common understanding. In the meeting, the key near term tasks were defined. Organizing stakeholder workshops were a main discussion point, as a common workshop program is required to guarantee harmonized results between the countries (FIN, NOR, SWE and GER). To aid in the guiding our research stakeholders from forest owner associations, forest industry, NGOs as well as from environmental and political authorities will be invited to provide the opinions and perspectives for managing and developing the bioeconomy at a European level.”

MULTIFOREST

Management for multifunctionality in European forests in the era of bioeconomy

www.jyu.fi/science/en/bioenv/research/natural-resources-and-environment/boreal-ecosystems-research-group/berg-projects-1/forest-values



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ForestValue JC2017 – co-funded projects

AVATAR

**Advanced Virtual
Aptitude & Training
Application in Real
Time**

www.avatar.uni-goettingen.de;
www.twitter.com/AVATAR02673222



25.26.09.2019: 2nd Consortium Meeting in Uppsala (SE)

The main goal was to interact/network with project partners and to inform each other about ongoing project work and next steps to progress AVATAR.

A highlight of the meeting was an introduction to the successfully implemented RECO (Rational Efficient Cost Optimization) training program for forest machine operators by one of its founders, Anders Mörk. This program is based on a workflow analysis of individual operators and AVATAR is aiming to provide features for complementing. The AVATAR project in general develops quantitative support tools to coach and assist forest machine operators by providing individualized feedback at optimal times in optimal formats.

A Swedish Survival Experience incl. mushroom picking adventure in vast Swedish forests topped by a moose roast exceeded all meeting expectations & generated inspiring ideas for ongoing AVATAR project work.



CLICK DESIGN

**Delivering fingertip
knowledge to enable
service life performance
specification of wood**

www.bregroup.com/CLICKdesign
<https://twitter.com/KdesignClick>

CLICKdesign met for its 2nd project management meeting recently in Lund. The evaluation of existing models is concluding using a framework developed by researchers at Göttingen University for extracting the components useful for our tool and for identifying gaps. Testing is underway to gather data to 'fill the gaps' concerning moisture and the performance of wood including the impact of cracks, splashback water (where a unique testing chamber has been developed), vegetation and microclimate effects. Exciting software visualisations for the aesthetic properties of wood have been tested and ahead of schedule a first stage tool has been prepared and is under test with industry group partners providing vital feedback. The goal of a performance specification tool for wood in construction gets closer!

The industry group is growing and we welcomed our new research partner the University of Vigo (self-funded) to the consortium which increases our reach across Europe and language diversity."



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INFUTUREWOOD Innovative Design For the Future – Use and Reuse of Wood (Building) Components

www.infuturewood.info/

The project's second meeting took place in Ljubljana, Slovenia on 17 -18th of September 2019. It was organized by Goran Turk from the faculty of Civil and Geodetic Engineering, Ljubljana University. During the meeting the 20 participants discussed the results in the project so far and decided the future steps. The project's website is <https://www.infuturewood.info/>. The participants visited ZAG (The Slovenian National Building and Civil Engineering Institute) to see tests from another Forest-Value project, InnoCrossLam (Innovative Solutions for Cross Laminated Timber Structures), presented by Boris Azinovic. Common interests were found and a collaboration plan between the projects was created.



InFutUReWood Consortium meeting



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Country updates

FINLAND



Finland's Presidency aims to ensure a good start for the development of a new EU forest strategy. [link](#)

The National Forest Strategy 2025 – an updated version, published 14/08/2019; [link](#)

The updated Finland's Roadmap to the Circular Economy 2.0 by Sitra published in March 2019. [link](#)

Ministry of Agriculture and Forestry's strategy for 2030, published 20/03/2019; [link](#)

Competitive advantage from clean food and responsible bioeconomy and circular economy - Futures review of the Ministry of Agriculture and Forestry; [link](#)

Academy of Finland's programme "Climate Change and Health (CLIHE; 2020-2023), evaluation of project proposals ongoing. [link](#)

Academy of Finland participating in the Belmont Forum Call 'Climate, Environment and Health', evaluation of project proposals ongoing. [link](#)

Business Finland's Bio and Circular Economy Programme (2019-2022) with a budget of 300 million euros launched 07/02/2019. [link](#)

Most promising material solutions were presented on the 5th of June at World Circular Economy Forum's side event Sustainable Materials Changing the World hosted by Business Finland. [link](#)

Business Finland kicks off foresight co-operation in circular economy with Japanese NINSTEP. [link](#)

Finnish Ministry of the Environment, Business Finland, European Institute of Innovation and Technology, EIT Digital, EIT RawMaterials and EIT Food: The conference European Days for Sustainable Circular Economy 30 September - 1 October 2019 in Helsinki. [link](#)

The Ministry of the Environment will start testing the method for assessing the carbon footprint of buildings. [link](#)

The Ministerial Working Group on Climate and Energy Policy started its work – studies in support of the carbon neutrality target to be launched soon. [link](#)

Second call "Forest resources, wood-based value chains and wood construction" within Tandem Forest Values (Finnish-Swedish programme) closed on 09/09/2019. [link](#)

UK NEWS



Brexit & UK universities <https://www.universitiesuk.ac.uk/policy-and-analysis/brexit/Pages/brexit-and-universities.aspx>

Webinars: <https://www.youtube.com/user/InternationalUnit/featured>



Country updates

GERMANY

(Agency for Renewable Resources, FNR, www.fnr.de)



The extreme heat and drought of 2018 and 2019 has resulted in severe damages of the German forest. Over all tree species the crown transparency has increased dramatically – on average over 40% of the trees can already be referred to as “at risk”. One third of all trees already have a crown damage of over 25%, showing high difficulties for the tree to regenerate the damage (à crown transparency over 60% often already means mortality). Healthy crowns can only be found in less than 30% of all trees in Germany.

The continuing drought in 2019 added to the general weakness of the trees and resulted in too little natural antibodies boosting a mass reproduction of bark beetles and fungi – leading to over 32 Mio qm calamity wood (2018)². For both years 2018/2019 over 100.000 Mio qm calamity wood in total are expected¹. Mostly affected are spruce stands, but deciduous trees such as beeches are showing significant damage as well. 120.000ha forests (1% of total German forest area) have died already. Additionally, there is an increased risk of forest fires (in 2019 a big one on 1.200ha)².

In order to tackle these challenges of the forests under climate change, the **German government (Federal cabinet) has decided on 20 Sep 2020, as part of the Climate Protection Programme 2030, to invest 547 Mio. € over the next 4 years in concrete measures.**

The 30 Mio. € per year for forest support measures (via GAK) will be topped up by an additional 5 Mio. € per year for tackling these challenges (over 5 years) – e.g. for a fast extraction of calamity wood, for prevention of insects & forest fires as well as for reforestation¹. Afforestation of the damaged stands (180.000 ha in 09/2019³) is a high priority, where an adapted forest management needs to include use of mixed species with different needs and characteristics, e.g. better adapted to drought. The “Waldklimafonds” (“Forestclimatefund”) is contributing 25 Mio. € per year to projects which support adaption of forest to climate change, securing carbon storage in forests, wood products, related research & information & dissemination activities¹.

To challenge the related R&D need - FNR has specific funding available for R&D projects that are focussing e.g. on [forest species breeding and forest fires](#)⁴.

¹ www.bmel.de/DE/Wald-Fischerei/Forst-Holzwirtschaft/texte/Wald-Trockenheit-Klimawandel.html

² www.bmel.de/DE/Wald-Fischerei/Waelder/texte/Waldzustandserhebung.html

³ www.bundesregierung.de/resource/.../klima-massnahmen-data.pdf

⁴ www.waldklimafonds.de/foerderaufruf/

Country updates

IRELAND

(Department of Agriculture, Food and the Marine, DAFM,
www.agriculture.gov.ie)

The Government's [Action Plan for Jobs](#) & [Action Plan for Rural Development](#) called for an assess-

ment of the potential of Ireland's bioeconomy to further contribute to economic development & the transition to a low-carbon economy.

The National Development Plan - [Project Ireland 2040](#) the Government's €116 billion development plan which is underpinned by a 20 year planning framework, highlights the potential of the circular bioeconomy in promoting the more efficient use of renewable resources while supporting economic development & employment in rural Ireland.

As part of Project 2040 [the Government published](#) on March 12 2018 the first [National Policy Statement on the Bioeconomy](#). Through this commitment the Government recognises that the bioeconomy is crucial for sustainability and circularity while also providing an impetus to rural and regional development and employment.

The Government has mandated an implementation group jointly chaired by the Departments of Agriculture, Food & Marine & Communications, Climate Action & Environment to address several major actions, in close collaboration with bioeconomy industries and other partners, and report back to Government within a year.

Implementation Progress Report - [Bioeconomy Implementation Group First Progress Report](#)

ARGENTINA

(SGCTeIP, Secretaría de Ciencia, Tecnología e Innovación Productiva de la Nación;
www.argentina.gob.ar/ciencia)

The National Forest Plan - **ForestAR 2030** - was published. It is an initiative of the National Government to make Argentina a sustainable forest power led by the Ministry of Environment & Sustainable Development, and also promoted by the Ministries of Agriculture; Production & Labor; Health & Social Development; Education, Culture, Science and Technology, with the collaboration of The Nature Conservancy Argentina (TNC). The initiative aims to reach the commitments assumed by the Country in the Paris Agreement & the 2030 Agenda based on the development of a forest based economy that promotes social, economic & environmental development.

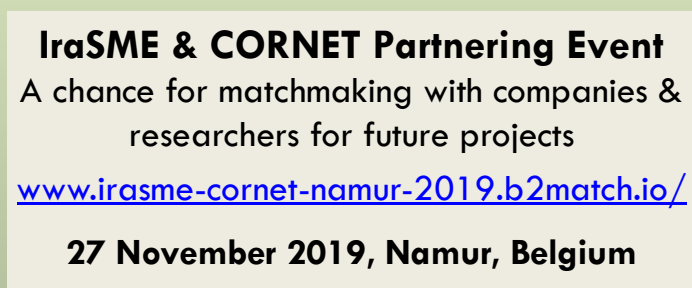
ForestAR 2030 is oriented on the one hand to protect native forests from indiscriminate logging, valuing all their benefits, for their sustainable use. It also aims at the restoration and natural regeneration of degraded native forests in order to recover their ecosystem benefits and promoting forest plantations and the entire timber value chain, has a high potential for the development of regional economies and the generation of federal, atomized, heterogeneous employment, as well as improving the trade balance against the growing demand of wood products.

You can access [here](#) for more details.

Institutional video (Spanish audio) www.youtube.com/watch?v=9HICQml7Prk&feature=youtu.be



Forest sector: SAVE-THE-DATEs



Forest sector: SAVE-THE-DATEs

University of Forestry • Faculty of Forestry

"Forestry - Bridge to the Future"

International Conference 2020 • Sofia, Bulgaria



CLIMATE CHANGE AND NEW CHALLENGES IN THE PRODUCTION OF HIGH QUALITY AND WELL ADAPTED FOREST REPRODUCTIVE MATERIAL

60th anniversary of Forest Seed Science and Technology in Croatia

Jastrebarsko, 3 - 4 December 2019



21 March
International Day of Forests

Mixed species forests

Risks, resilience and management

25-27 March, 2020

Swedish University of Agricultural Sciences
Lund, Sweden

SCIENTIFIC CONFERENCE:
BIOLOGICAL INVASIONS
IN FORESTS:
TRADE,
ECOLOGY
AND MANAGEMENT

14 - 18 September 2020
Prague, Czech Republic

Governing and managing forests for multiple ecosystem services across the globe

February 26-28, 2020
Bonn, Germany



POLYFORES



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FORESTS

WERE THE FIRST TEMPLES OF THE
DIVINITY,

AND IT IS IN THE FORESTS
THAT MEN HAVE GRASPED
THE FIRST IDEA

OF ARCHITECTURE.

FRANCOIS-RENE DE CHATEAUBRIAND
(1768-1848)

(One of the [#ForestValue](https://forestvalue.org/) focusses: building with wood)

[#ClickDesign](#); [#hardwood_joint](#); [#FIRENWOOD](#); [#InnoCrossLam](#); [#InFu-tUReWood](#); [#StrongComposite](#); [#FunEnzFibres](#)

[www.forestvalue.org](https://forestvalue.org)

<https://www.linkedin.com/groups/12110816/>