

PROGRAM

NUORO
16th — 20th
MAY 2022



EURAF2022

6th EUROPEAN AGROFORESTRY CONFERENCE

*Agroforestry
for the Green
Deal transition.
Research and
innovation towards
the sustainable
development
of agriculture
and forestry.*



UniNuoro
Consorzio Universitario Nuoro







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**NUORO
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SCIENTIFIC COMMITTEE

ITALY

Donatella Spano, Department of Agricultural Sciences, and CMCC Foundation Euro-Mediterranean Center on Climate Change, University of Sassari

Antonio Trabucco, Impacts on Agriculture, Forests and Ecosystem Services Division, Foundation Euro-Mediterranean Center on Climate Change (CMCC)

Antoine Libert, Impacts on Agriculture, Forests and Ecosystem Services Division, Foundation Euro-Mediterranean Center on Climate Change (CMCC)

Pierluigi Paris, Research Institute on Terrestrial Ecosystems, National Research Council, CNR-IRET

Andrea Pisanelli, Research Institute on Terrestrial Ecosystems, National Research Council, CNR-IRET

Alberto Mantino, Institute of life sciences, School of Advanced Studies Sant'Anna

Adolfo Rosati, Research Centre for Olive, Fruit and Citrus Crops, Council for Agricultural Research and Economics (CREA)

Giovanna Seddaiu, Department of Agricultural Sciences, and Desertification Research Centre, University of Sassari

Antonio Franca, Institute for Animal Production System in Mediterranean Environment, National Research Council, CNR-ISPAAAM

Valentina Bacciu, Institute of the BioEconomy, National Research Council, CNR-IBE

Giuseppe Pulina, Department of Agriculture Sciences, University of Sassari

Marco Lauteri, Research Institute on Terrestrial Ecosystems, National Research Council, CNR-IRET

Marcello Mele, Center for Agro-environmental research "Enrico Avanzi", University of Pisa

Giorgio Ragolini, University of Milan. Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy

Anna Panozzo, Department of Agronomy, Food, Natural resources, Animals and Environment, University of Padova

Francesca Camilli, of the BioEconomy, National Research Council, CNR-IBE

Francesco Reyes, Università degli Studi di Modena e Reggio Emilia

Pier Mario Chiarabaglio, Council for Agricultural Research and Economics, Research Centre

CZECH REPUBLIC

Bohdan Lojka, University of Life Sciences, Prague

GERMANY

Christopher Morhart, Institute of Forest Sciences - Chair of Forest Growth and Dendroecology - University of Freiburg

HUNGARY

Andrea Vityi, Hungary Co-operational Research Centre Nonprofit Ltd, University of Sopron

Zita Szalai, Department of Ecological and Sustainable Production Systems, Szent István University

IRELAND

Ian Short, Teagasc (Forestry Research)

LATVIA

Dagnija Lazdina, Latvian State Forest Research Institute SILAVA

POLAND

Robert Borek, Institute of Soil Science and Plant Cultivation, Pulawy

PORTUGAL

Joana Amaral Paulo, Centro de Estudos Florestais, Universidade de Lisboa

Jo Smith, Mvarc Agroecology Research Centre

SPAIN

María Rosa Mosquera Losada, Department of Crop Production, Universidade de Santiago de Compostela

Nuria Ferreiro-Dominguez, Universidade de Santiago de Compostela

Manuel Bertomeu, University of Extremadura

UK

Gerry Lawson, Centre for Ecology & Hydrology, Edinburgh, UK

Paul Burgess, Cranfield Soil and Agrifood Institute

LOCAL ORGANIZING COMMITTEE

Giovanni Pinna Parpaglia, University consortium of Nuoro

Giuseppe Pulina, University of Sassari

Donatella Spano, Department of Agricultural Sciences, and CMCC Foundation Euro-Mediterranean Center on Climate Change, University of Sassari

Antonio Trabucco, Impacts on Agriculture, Forests and Ecosystem Services Division, Foundation Euro-Mediterranean Center on Climate Change (CMCC)

Pier Paolo Roggero, Department of Agricultural Sciences, University of Sassari

Giovanna Seddaiu, Department of Agricultural Sciences, and Desertification Research Centre, University of Sassari

Antonello Franca, National Research Council, Institute for Animal Production System in Mediterranean Environment, CNR-ISPAM

Bachisio Arca, Institute for the BioEconomy, National Research Council, CNR-IBE

Maurizio Mallocci, Fo.Re.S.T.A.S. (Regional Forest Agency of Sardinia)

Manuela Manca, Fo.Re.S.T.A.S. (Regional Forest Agency of Sardinia)

Salvatore Mele, Fo.Re.S.T.A.S. (Regional Forest Agency of Sardinia)

Giovanni Piras, Agricultural Research Agency of Sardinia

Pino Angelo Ruiu, Agricultural Research Agency of Sardinia

ORGANIZING COMMITTEE

Francesca Camilli, Institute of the BioEconomy, National Research Council, CNR-IBE

Alberto Mantino, Institute of life sciences, School of Advanced Studies Sant'Anna

Anna Panozzo, Department of Agronomy, Food, Natural resources, Animals and Environment, University of Padova

Pierluigi Paris, Research Institute on Terrestrial Ecosystems, National Research Council, CNR-IRET

Giustino Mezzalana, Veneto Region's agency for the innovation in the primary sector-veneto

Agricoltura, VenetoAgricoltura

Marcello Mele, Center for Agro-environmental research "Enrico Avanzi" University of Pisa

Marco Lauteri, Research Institute on Terrestrial Ecosystems, National Research Council, CNR-IRET

Andrea Pisanelli, Research Institute on Terrestrial Ecosystems, National Research Council, CNR-IRET

Francesco Pelleri, Council for Agricultural Research and Economics, Research Centre for Forestry and Wood

Adolfo Rosati, Research Centre for Olive, Fruit and Citrus Crops, Council for Agricultural Research and Economics (CREA)

Federico Correale Santacroce, Veneto Region's agency for the innovation in the primary sector-veneto Agricoltura, VenetoAgricoltura

Giorgio Ragaglini, University of Milan. Department of Agricultural and Environmental Sciences - Production, Landscape, Agroenergy

Pier Mario Chiarabaglio, Council for Agricultural Research and Economics, Research Centre for Forestry and Wood

ORGANIZING SECRETARIAT

BeTools



EURAF2022



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SUNDAY

15th MAY

Eliseo Theatre

via Roma 73 - Nuoro

15:00 - 17:45

Registration opening

MONDAY

16th MAY

Eliseo Theatre

via Roma 73 - Nuoro

08:30 Registration

10:00 **Conference opening**

Welcome address

Donatella Spano, University of Sassari, Department of Agricultural Sciences, and CMCC Foundation Euro-Mediterranean

Francesca Camilli, EURAF Deputy President and CNR-IBE, Institute of theBio Economy

Patrick Worms, EURAF President

Giovanni Pinna Parpaglia, University consortium of Nuoro

Andrea Soddu, Mayor of Nuoro

Costantino Tidu, Province of Nuoro Commissioner

Gavino Mariotti, Rector of the University of Sassari

Maurizio Mallocci, Fo.Re.S.T.A.S., Regional Forest Agency of Sardinia

Gianni Lampis, Minister of Environment, Autonomous Region of Sardinia (tbc)

Gabriella Murgia, Minister of Agriculture, Autonomous Region of Sardinia (tbc)

Christian Solinas, President of the Sardegna Region (tbc)

11:00 *Coffee break*

MONDAY

ROOM_A

16th MAY

Eliseo Theatre
via Roma 73 - Nuoro
ROOM_A

PLENARY SESSION 1

Chair - Donatella Spano, University
of Sassari, Department of
Agricultural Sciences, and CMCC
Foundation Euro-Mediterranean
Center on Climate Change

**11:30 National policy commitments to
support agroforestry in Italy**
*Pietro Oieni, Italian Ministry of Agriculture,
Food and Forestry Policies*

Chair - Giovanna Seddaiu, University of Sassari,
Department of Agricultural Sciences

**12:00 A social-ecological agenda for
agroforestry in the Mediterranean region**
*Tobias Plieninger, University of Gottingen and the
University of Kassel (Online presentation)*

12:30 Lunch

TOPIC 1

Agroforestry and the Environment

T1.1 - Climate change (adaptation & mitigation)

Chair - Paul Burgess, Cranfield University,
Bedfordshire, United Kingdom

- 14:30 O_1.1_4 Carbon certification in agroforestry?!
Assessment and recommendations**
Rico Hübner, Christoph A. Meixner, Christopher Morhart, Ernst Kürsten, Georg Eysel-Zahl, Norbert Lamersdorf, Penka Tsonkova, Tobias Peschel, Martin Wiesmeier, Christian Böhm
- 14:45 O_1.1_12 Greenhouse and open field studies on water stress responses of new poplar clones with “high environmental sustainability” under testing for silvoarable systems in Italy**
Pierluigi Paris, Achille Giorcelli, Valentina Bosco, Simone Cantamessa, Maria Cristina Monteverdi, Gianpiero Vigani, Marco Grendele, Marco Lauteri, Pier Mario Chiarabaglio
- 15:00 O_1.1_14 The use of biochar and wood chips to improve the productivity of mountain meadows in an organic system**
Paweł Radzikowski, Robert Borek, Marcin Wójcik, Krzysztof Jończyk
- 15:15 O_1.1_6 Horizontal and vertical variations of root distribution and traits, soil physical, chemical and microbial properties associated with CNP cycles in a young alley-cropping system under Mediterranean climate**
Lorène Siegwart, Christophe Jourdan, Gabin Piton, Karel Van den Meersche, Soh Sugihara, Isabelle Bertrand

- 15:30** **O_1.1_8 Meriagos can contribute to achieve Net Zero Sardinian beef cow-calf system farms**
Mondina F. Lunesu, Maria F. Caratzu, Fabio Correddu, Anna Nudda, Gianni Battacone, Giuseppe Pulina
- 15:45** **O_1.1_9 Building a global carbon database to characterize agroforestry as a natural climate solution**
Susan Cook-Patton, Michael Jacobson, Tanushree Biswas, Remi Cardinael, Katherine Culbertson, Andrea DeStefano, Edenise Garcia, Kripa Neupane, Todd Rosenstock, Starry Sprengle-Hyppolite, Marta Suber, Alison Surdoval, Drew Terasaki Hart, Bhuwan Thapa, YeseniaValverde, Stephen Wood, Sam Yeo, Alina Zarate
- 16:00** *Coffee break*

TOPIC 2

Quality, safety and sustainability of agroforestry productions

T2.1 - Crop and grassland productions

Chair - Anastasia Pantera, Agricultural University of Athens, Department of Forestry and Natural Environment Management

- 16:30** **O_2.1_50 Effect of shade on persistence of sown legumes under silvopastoral conditions**
Antonello Franca, Daniele Dettori, Daniele Nieddu, Federico Sanna

-
- 16:45** **O_2.1_51 Optimising productivity of silvoarable agroforestry systems in the temperate zone: screening crop species and varieties in an artificial shade experiment**
Bert Reubens, Paul Pardon, Rutger Tallieu, Tom De Swaef, Willem Coudron, Jolien Bracke, Willem Van Colen
- 17:00** **O_2.1_53 Light reduction affected agronomic performance and nutritive value of temporary grassland swards in a Mediterranean rainfed plot trial**
Lorenzo Gabriele Tramacere, Alberto Mantino, Massimo Sbrana, Marco Mazzoncini, Marcello Mele, Giorgio Ragaglini, Daniele Antichi
- 17:15** **O_2.1_54 Grazing sheep in commercial orchards after bud break: technical lockups and challenges regarding damage to trees and risk of copper poisoning**
Clémence Rivoire, Michel Bouy, Mathilde Facy, Guillaume Fichepoil, Amélie Lèbre, Raphaëlle Leinardi, Magali Montet, Pierre Pellissier, Martin Trouillard
- 17:30** **O_2.1_55 Yield and quality of arable crops in temperate alley cropping systems during the first decade after tree establishment**
Paul Pardon, Paul Quataert, Jolien Bracke, Dirk Reheul, Kris Verheyen, Bert Reubens
- 17:45** **O_2.1_52 Effect of trees on the phenology of dehesa grassland in the western Iberian Peninsula**
Gerardo Moreno, Isabel Arenas-Corralizas, Victor Rolo, Manuel Bertomeu

TOPIC 3

Economy and policy of agroforestry

T3.3 - Agroforestry Business Environment Models

Chair - Antonio Brunori, Programme for the Endorsement of Forest Certification (PEFC) - Italy, Perugia, Italy

- 18:00** **O_3.3_90 Assessing agroforestry options for sustainable land use in Germany**
Cory Whitney, Fred Kuhl, Eike Luedeling
- 18:15** **O_3.3_91 Assessing the potential of different economic incentives for stimulating temperate agroforestry. A case-study in Flanders, Belgium**
Helena Tavernier, Lieve Borremans, Jolien Bracke, Bert Reubens, Erwin Wauters
- 18:30** **O_3.3_92 Agroforestry systems in Portugal: studying traditional and innovation systems and its economical approach**
Henrique Santos, Joana Grácio, Leonardo Collier, Rita Bernardo, Rossano Filippini, Sara Rodrigues
- 18:45** **O_3.3_60 Effects of Agroforestry System Use on Wine Production in the Mosel Valley**
Nicklas Riekötter, Julian Schwabe



TOPIC 4

Agroforestry in society and culture

T4.3 - Agroforestry and historical landscapes: heritage identity and a driver for sustainable tourism

Chairs - **Claire Lemarié**, Chambre d'agriculture des Pays-de-la-Loire, Direction Territoire, service Arbres et Biodiversité, ANGERS, France

- 19:00** **O_4.3_110 Green Infrastructure governance approaches in the Alpine Space – Synthesis of collaborative mapping approaches for selected case studies**
Rico Hübner, Werner Rolf, Linda Schrapp, Maren Buschhaus, Sara Salgado, Katalin Czippán, Anika Sebastian, Peter Blum
- 19:15** **O_4.3_111 Olive agroforestry in Sicily. Insights from the Roman past and the present**
Vincenza Ferrara, Giovanna Sala, Dominic Ingemark, Tommaso La Mantia
- 19:30** End

MONDAY

ROOM_B

16th MAY

Chamber of Commerce
via Papandrea - Nuoro
ROOM_B

TOPIC 1

Agroforestry and the environment

T1.3 - Landscape planning and management

Chair - Felix Herzog, Agroscope, Switzerland

- 14:30** **O_1.3_32 Drivers of soil erosion in a Mediterranean agrosilvopastoral system: A comparative assessment of RUSLE model predicted value and perceived soil erosion risk in southern Tuscany (Italy)**
Stefano De Leo, Francesco Annecchini , Heitor Mancini Teixeira, Martina Occelli, Martina Re, Alberto Mantino
- 14:45** **O_1.3_33 Recent land cover changes affecting agroforestry systems in Extremadura (SW Spain): An intensity analysis at regional and farm scales**
Joaquin Francisco Lavado Contador, Estela Herguido Sevillano, Susanne Schnabel, Anthony Gabourel Landaverde, Jesus Barrena González
- 15:00** **O_1.3_34 UAV-Based Remote sensing technique to detect and analyze Ink disease in a chestnut orchard using high resolution multispectral imagery**
Lorenzo Arcidiaco, Angela Frascella, Giovanni Emiliani, Roberto Danti, Sara Barberini, Antonietta Mello, Francesco Venice, Gianni Della Rocca

- 15:15** **O_1.3_35 Recovery of cork forests and enhancement of by-products**
Giovanna Sala, Rafael da Silveira Bueno, Emilio Badalamenti, Andrea Laschi, Tommaso La Mantia
- 15:30** **O_1.3_37 Agroforestry systems in Portugal: is it possible to bring more biodiversity to traditional cropping systems towards sustainability?**
Henrique Santos, Joana Grácio, Leonardo Collier, Rita Bernardo, Rossano Filippini, Sara Rodrigues
- 15:45** **O_1.3_150 Common walnut (*Juglans regia* L.) - a promising tree species for agroforestry systems**
Christopher Morhart, Zoe Schindler, Jonathan Sheppard, Rafael Bohn Reckziegel, Hans-Peter Kahle, Thomas Seifert
- 16:00** *Coffee break*

TOPIC 3

Economy And Policy Of Agroforestry

T3.1 - Neutrality certifications and carbon farming

Chair - Anna Maria Mitrova, endel University in Brno, Faculty of Forestry and Wood Technology, Czechia

- 16:30** **O_3.1_81 Agroforestry systems to support carbon neutrality of dairy cow production: preliminary assessment of a carbon insetting scenario in northern Tuscany (Italy)**
Alberto Mantino, Margherita Tranchina, Marcello Mele, Josep Crous-Duran, Ricardo Villani
- 16:45** **O_3.1_82 Sustainable management of Agroforestry systems: state of the art of PEFC certification in Italy**
Antonio Brunori, Francesco Marini, Eleonora Mariano, Francesca Camilli, Silvia Baronti
- 17:00** **O_3.1_83 Increased tree root growths due to soil management in agroforestry systems**
Sonja Kay

TOPIC 2

Quality, safety and sustainability of agroforestry productions

T2.3 - Livestock productions

Chair - Robert Borek, Institute of Soil Science and Plant Cultivation - State Research Institute, Puławy, Poland

- 17:15** **O_2.3_72** **Herbage intake, nutritive value and cattle productivity within silvopasture and open pasture systems: a case- study in a Mediterranean livestock farm**
Alice Ripamonti, Giovanni Pecchioni, Francesco Annecchini, Laura Casarosa, Alessio del Tongo, Jacopo Goracci, Marcello Mele, Alberto Mantino
- 17:30** **O_2.3_73** **Carbon footprint labelling in the agri-food sector: a preliminary study on consumer behaviour for beef in Spain**
Andrés Horrillo, Celia Balas, Carlos Díaz-Caro, Paula Gaspar, Francisco Mesías, Miguel Escribano
- 17:45** **O_2.3_75** **Dynamic of 16 fodder trees' nutritive values from June to October**
Geoffrey Mesbahi, Philippe Barre, Rémy Delagarde, Fabien Bourgoïn, Romain Perceau, Sandra Novak

TOPIC 4**Agroforestry in society and culture****T4.1 - Education, training, dissemination and promotion**

Chair - Judit Csikvari, Zsörk Alapítvány
(Zsörk Foundation), Zsörk farm

18:00 O_4.1_99 Agroforestry education in the transition for the new decade: the example of Greece

Andreas Papadopoulos, Anastasia Pantera, George Fotiadis, Konstantinos Mantzanas, Vasileios Papanastasis, Charles Burriel, Ghislaine Nouallet, Maria-Rosa Mosquera-Losada

18:15 O_4.1_100 «Club des agroforestiers Sarthois» When farmers become agroforesters

Claire Lemarié

18:30 O_4.1_101 Bringing research, extension and training partners together for agroforestry upscaling: A look at of the French network "RMT Agroforesteries"

Delphine Mézière, François Warlop, Patrick Cochard, Brendan Godoc, Sandrine Emeriau, Frédéric Lévêque, Clélia Saubion, Graziella Tostain, Juliette Grimaldi, François Birmant

18:45 O_4.1_102 Participatory serious games: developing a tool to design mixed farming and agroforestry systems

Rosemary Venn, Elsbeth Smit, Isabella Selin-Norén, Andrew Dawson, Jeroen Watté, Sara Burbi,

19:00 O_4.1_103 Regenerative landscapes and communities: assessing socioecological functions of an agroforestry peri-urban system

Stefano Bocchi, Valentina Capocefalo, Gemma Chiaffarelli, Alice Giulia Dal Borgo, Andrea Schievano, Ilda Vagge

19:15 End

TUESDAY

ROOM_A

17th MAY

Eliseo Theatre
via Roma 73 - Nuoro
ROOM_A

TOPIC 1

Agroforestry and the environment

T1.1 - Climate change (adaptation & mitigation)

Chair - Christian Dupraz, INRAE, UMR Absys,
University of Montpellier, Montpellier, France

- 09:00** **O_1.1_10 Soil carbon after prescribed burnings combined with silvopasture in Galicia (NW Spain)**
Nuria Ferreiro-Dominguez, Antonio Rigueiro-Rodríguez, María Rosa Mosquera-Losada
- 09:15** **O_1.1_11 Preliminary results from the use of soil covers to decrease soil moisture evaporation, decrease flammable biomass buildup, and enhance regeneration in a silvopastoral system**
Anastasia Pantera, Pinelopi Papadopoulou, Panagiotis Kalaitzis, Lisa Radinovsky, Konstantinos Blazakis, Maria Sampathianaki
- 09:30** **O_1.1_5 Agroforestry system with cereal crops and wood plantations: an economic case study in the Po Valley**
Laura Rosso, Simone Cantamessa, Domenico Coaloa, Pier Mario Chiarabaglio

-
- 09:45** **O_1.1_2 Tree root pruning in maize alley-cropping: would it have saved the maize? The Hi- sAFe model answers. Will you believe it?**
Lory Boutchakdjian, Christian Dupraz, Isabelle Lecomte, Marie Gosme, Francesco Reyes
- 10:00** **O_1.1_13 Impact of cattle grazing on soil and stand structure in a Mediterranean silvopastoral system in Tuscany**
Maria Chiara Manetti, Francesco Marini, Francesco Pelleri, Alessandra Pacini, Pier Mario Chiarabaglio, Sara Bergante, Francesca Camilli, Silvia Baronti, Anita Maienza, Fabrizio Ungaro, Francesca Ugolini, Jacopo Goracci
- 10:15** **O_1.1_15 Increasing tree survival to facilitate the conversion of conventional systems to agroforestry systems using plant growing aids and plant-plant facilitation under climate change**
Rafael da Silveira Bueno, Emilio Badalamenti, Giovanna Sala, Michele Russo, Tommaso La Mantia
- 10:30** **O_1.1_16 Agroforestry for climate smart agriculture: farmer perception of ecosystem services and the contribution to on farm resilience**
Rosemary Venn, Katharina Dehnen-Schmutz, Michelle Allen, Sara Burbi
- 10:45** **O_1.1_17 Agroforestry innovation with walnut: the Woodnat experience**
Simone Cantamessa, Achille Giorcelli, Maria Chiara Manetti, Francesco Pelleri, Sara Bergante, Pier Mario Chiarabaglio
- 11:00** *Coffee break*



TOPIC 1

Agroforestry and the environment

T1.3 - Landscape planning and management

Chair - Manuel Bertomeu, University of Extremadura

- 11:30** **O_1.3_47 Agroforestry component of ecological optimization of agro-landscapes within Gully Steppe of Ukraine**
Vasyl Yukhnovskyi, Yulia Bila, Olha Tupchii, Nataliia Solomakha, Yurii Urliuk
- 11:45** **O_1.3_40 Conversion of a Conventional Arable Land to a Multifunctional Landscape through Research by Design**
Miroslav Čibík, Attila Tóth
- 12:00** **O_1.3_41 Forest cover changes under agroforestry program in dryland of Sudan**
Mohamed Hemida, Andrea Vityi
- 12:15** **O_1.3_36 Decision support for farmers – a systems approach illustrated by an analysis on the impact of integrating chicken into German apple orchards**
Katja Schiffers, Zoe Heuschkel, Lars Caspersen, Linda Lurz, Cory Whitney, Eike Luedeling
- 13:00** *Lunch*

TOPIC 3

Economy and policy of agroforestry

T3.2 - Agroforestry european policy

Chair - Patrick Worms, EURAF President
and CIFOR-ICRAF

- 15:00 O_3.2_84 A scoping review of the economic competitiveness of temperate agroforestry systems in Europe and North America**

Alma Thiesmeier, Peter Zander

- 15:15 O_3.2_85 Upscaling agroforestry practices from the field to the regional scale: a case study in the Walloon region, Belgium**

Géraud de Streel, Olivier Baudry

- 15:30 O_3.2_86 Agroforestry in the EU
Common Agricultural Policy - Post 2023**

Gerry Lawson, Manuel Bertomeu, Paul Burgess, Jakub Houska, Rico Huebner, Sonja Kay, Dagnija Lazdina, Fabien Liagre, Anders Linden, Grega Milcinski, Joao Palma, Vasileios Papanastasis, Julie Rohde Birk, Greet Ruysschaert, Zita Szalai, Patrick Worms, Michael van den Herder

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- 15:45** **O_3.2_87 European state of agroforestry: an overview of the current policy contexts**
Jesse Donham, Rosemary Venn, Paola Migliorini, Ulrich Schmutz
- 16:00** **O_3.2_88 An agroecological future: which frameworks should we apply when developing agroforestry policy in England?**
Rosemary Venn, Sara Burbi
- 16:15** **O_3.2_89 The benefits of Agroforestry for the environment, climate change mitigation and agricultural production – a global synthesis**
Andrea Schievano, Marta Pérez-Soba, Mathilde Chen, Simona Bosco, Ana Montero-Castaño, Giovanni Tamburini, Giuseppe Bertolina, Stefano Bocchi, Jean Michel Terres, David Makowski
- 16:30** *Coffee break*
- 17:00** **AGROMIX #AskAScientist campaign: Agroforestry Q&A session**
Moderator:
Dimitri Tsitos, The Regenerative Agroforestry Podcast
Panel of experts:
Patrick Worms, EURAF President and ICRAF
Dagnija Lazdiņa, Latvian State Forest Research Institute “Silava”, Latvia
Anastasia Pantera, Agricultural University of Athens, Department of Forestry and Natural Environment Management
Bohdan Lojka, Czech University of Life Sciences in Prague, Faculty of Tropical AgriSciences, Department of Crop Science and Agroforestry, Czech Republic
- 18:00** End

TUESDAY

ROOM_B

17th MAY

**Chamber of Commerce
via Papandrea - Nuoro
ROOM_B**

TOPIC 2

**Quality, safety and sustainability
of agroforestry productions**

T2.1 - Crop and grassland productions

Chair - Rico Hübner, Technical University of Munich, TUM School of Life Sciences, Chair of Strategy and Management of Landscape Development, Freising-Weihenstephan

- 09:00** **O_2.1_56 Grafting: a sustainable agricultural tool to face climatic stressful conditions in hazelnut (*Corylus avellana* L.)**
Silvia Portarena, O. Gavrichkova, E. Brugnoli, A. Battistelli, S. Proietti, S. Moscatello, F. Famiani, C. Zadra, D. Farinelli
- 09:15** **O_2.1_58 A remote sensing approach to assess the stability of forage production from legume-rich mixtures oversown in Mediterranean wooded grasslands**
Antonio Pulina, Ana Hernández-Esteban, Victor Rolo, Giovanna Seddaiu, Pier Paolo Roggero, Gerardo Moreno

- 09:30** **O_2.1_59 Effect of reclaimed water on corn plants' height intercropped with trees in a silvoarable alley plot**
Pinelopi Papadopoulou, Evangelos Statiris,
Simos Malamis, Constantinos Noutsopoulos,
María Rosa Mosquera-Losada

TOPIC 1

Agroforestry and the environment

T1.2 - Biodiversity

Chair - Bert Reubens, Flanders research institute for agriculture, fisheries and food (ILVO), Belgium

- 09:45** **O_1.2_22 Ecological relations of soil fauna under long term Agroforestry system in temperate climate: results from central Italy**
Anita Maienza, Erica Lumini, Gherardo
Biancofiore, Silvia Baronti, Francesca Ugolini,
Fabrizio Ungaro, Francesca Camilli
- 10:00** **O_1.2_23 Hedgerow biodiversity – a proxy for the biodiversity potential of alley cropping**
Beate Strandberg, Jørgen Aagaard Axelsen
- 10:15** **O_1.2_26 Apiculture and biodiversity of honey plants of Montenegro - Potential for agroforestry practice**
Jelena Beloica, Boris Radak, Predrag Miljković, Boro
Vujošević, Goran Anačkov, Milan Medarević, Nikola
Kovačević, Predrag Radišić, Jelena Lazarević



- 10:30** **O_1.2_25 Potential of agroforestry systems in preserving Europe's soil biodiversity in lowland and highland**
Rafal Wawer, Piotr Koza, Jacek Niedźwiecki, Robert Borek, Adrian-Eugen Gliga, Bhim Bahadur Ghaley, Ying Xu, Jo Smith, Laurence Smith, Mignon Şandor, Andrea Pisanelli, Angela Augusti, Giuseppe Russo, Marco Lauteri, Marco Ciolfi, Lisa Mølgaard Lehmann, Eugeniusz Nowocien, Damian Badora

11:00 *Coffee break*

TOPIC 2

Quality, safety and sustainability of agroforestry productions

T2.3 - Livestock Productions

Chair - Marcello Mele, University of Pisa, Department of Agriculture, Food and Environment, Pisa, Italy

- 11:30** **O_2.3_76 Feeding preferences of Highland cattle reveal their attitude to exploit woody vegetation in mountain environments**
Ginevra Nota, Marco Pittarello, Simone Ravetto Enri, Davide Barberis, Rebecca Pagani, Michele Lonati, David Frund, Mia Svensk, Massimiliano Probo, Giampiero Lombardi
- 11:45** **O_2.3_77 In France, silvipastoral arrangements in grasslands can mitigate moderate heat stress in sheep**
Mickaël Bernard, Robin Russias, Cécile Ginane, André Marquier, Urbain Kokah, Léa Ottmann, Sophie Tournier, Pascal Walser, Emma Chanet, Bruno Moulia, Marc Saudreau

-
- 12:00** **O_2.3_78 Performance of Iberian x Duroc cross breed pigs according to age at the beginning of free-range finishing phase in Montanera**
Alberto Ortiz, David Tejerina, Susana García-Torres, Paula Gaspar, Elena González
- 12:15** **O_2.3_79 Willingness to pay for certification in the case of Iberian ham. Sustainability labels vs. agroforestry attributes**
Paula Gaspar, Carlos Díaz-Caro, Inés del Puerto, Alberto Ortiz, Miguel Escribano, David Tejerina
- 12:30** **O_2.3_74 Impact of technical-economic management on the greenhouse gas emissions and carbon sequestration in organic livestock farms**
Andrés Horrillo, Francisco Mesías, Paula Gaspar, Miguel Escribano
- 12:45** **O_2.3_80 Water quality for livestock in semi- arid rangelands of the southwestern Iberian Peninsula**
Ubaldo Marín-Comitre, Susanne Schnabel, Jesús Barrrena-González, Manuel Pulido-Fernández
- 13:00** *Lunch*

TOPIC 2

Quality, safety and sustainability of agroforestry productions

T2.2 - Timber, energy and non-wood forest productions

Chair - **Jakub Houška**, The Silva Tarouca Research Institute for Landscape and Ornamental Gardening (VUKOZ)

- 15:00** **O_2.2_61 Agroforestry vs. agrivoltaics: advantages and disadvantages of two approaches to combining food and energy production on the same land**
Adolfo Rosati, Maggie Graham, Serkan Ates, Chad Higgins
- 15:15** **O_2.2_62 Lessons from physiological monitoring of truffle productive vs. non-productive plants**
Alessia Sartori, Enrico Vidale, Davide Pettenella, Gaii Petit
- 15:30** **O_2.2_63 Reconstruction of the tree growth dynamics in an historical agroforestry plot with dendrochronology to validate the Hi-sAFe biophysical agroforestry model**
Christian Dupraz, Alain Sellier, Jean-François Bourdoncle, Marie Gosme
- 15:45** **O_2.2_64 Light saturation point, radial growth and leaf phenology show the suitability of different species of the genus *Corylus* to live under a dominated tree layer**
Gaia Pasqualotto, Vinicio Carraro, Daniela Frarinelli, Tommaso Anfodillo
- 16:00** **O_2.2_65 The production of Edible Wood in a coppice system**
Pip Gilmore

16:30 *Coffee break*

LIVINGAGRO Side event

18:10 End

WEDNESDAY

18th MAY

All day (STUDY VISITS)

Study Visit "Montiferru"

Elighes Uttiosos Farm - LIFE Regenerate project

Study Visit "Monte Sant'Antonio"

Experimental Farm of Agris Sardegna

Study Visit "Arborea"

Eucalyptus windbreaks and research projects on groundwater pollution and Infiltration Forested Areas - University of Sassari

Study Visit "Monti"

Farm Mu - ENI CBC LIVINGAGRO Project

THURSDAY

ROOM_A

19th MAY

Eliseo Theatre

via Roma 73 - Nuoro

ROOM_A

TOPIC 1

Agroforestry and the environment

T1.1 - Climate change (adaptation & mitigation)

Parallel session co-hosted by the project SALAM-MED

Chair - Pier Paolo Roggero, University of Sassari,
Department of Agricultural Sciences

- 09:00** **O_1.1_21 Sustainable approaches to land and water management in Mediterranean drylands: the SALAM-MED project**
Chiara Ceseracciu, Elena Bresci, Mauro Centritto, Nicola Lamaddalena, Ehab Zaghloul, Mongi Ben Zaied, Stavros Solomos, Zein Kallas, Said Wahbi, Antonio Del Campo, Houssemedin Henchir, Alessio Merella, Andrea Galante, Jean Marc Fures, Youssef Brahimi, Taysir Arbasi, Pier Paolo Roggero
- 09:15** **O_1.1_7 DIGITAF, a European project to help agroforestry meet climate, biodiversity and farming sustainability goals: linking field and cloud**
Marie Gosme, Bert Reubens, Gerry Lawson, Paul J. Burgess, Sonja Kay, Marco DeBoer, Patrick Worms

-
- 09:30** **O_1.1_19 Harvest index and nitrogen uptake of barley in intercropped walnut orchard**
Helena Žalac, Ante Bubalo, Vladimir Ivezić, Jurica Jović, Miro Stošić, Vladimir Zebec
- 09:45** **O_1.1_20 Framework for building climate change resilience into landscape restoration through agroforestry: an England case study**
Will Simonson, Colin Tosh, David Wolfe, Daan Verstand, Saskia Houben, Isabella Selin Norén, Michelle Allen

TOPIC 1

Agroforestry And The Environment

T1.4 - Wildfires

Chair - Christopher Morhart, University of Freiburg,
Chair of Forest Growth and Dendroecology, Germany

- 10:15** **O_1.4_48 Using satellite images and GEE to monitor post-wildfire forest vegetation response in Monte Serra (Tuscany, Italy)**
Lorenzo Arcidiaco, Chiara Torresan, Giorgio Matteucci
- 10:30** **O_1.4_49 Managing wildfire risk in mosaic landscapes: A case study of the upper Gata river catchment in Sierra de Gata, Spain**
Manuel Bertomeu, Javier Pineda
- 11:00** *Coffee break*

TOPIC 4

Agroforestry in society and culture

T4.1 - Education, training, dissemination and promotion

Parallel session co-hosted by the project LIVINGAGRO

Chair - Sara Maltoni, Fo.Re.S.T.A.S.

(Regional Forest Agency of Sardinia)

- 11:30** **O_4.1_109 Living Labs for promoting innovations in Mediterranean agroforestry. The LIVINGAGRO experience**
Sara Maltoni, Maurizio Malloci, Mauro Forteschi, Marina Bufacchi, Andrea Pisanelli, Claudio Porqueddu, Antonello Franca, Luciana Baldoni, Daniele Chiappini, Roberto Cippitani, Salam Ajoub, Milad El Riachy, Peter Moubarak, Joseph Kahwaj, Lamis Chalak, Panagiotis Kalaitzis, Eleni Stamataki, Kostas Blazakis, Dina Porazzini, Alessandro Mancosu, Rita Melis, Pasquale Arca
- 11:45** **O_4.1_104 Revealing the multiple shades of trees in the agroforestry discourse in Quebec, Canada**
Geneviève Laroche, Jean Mercier, Alain Olivier
- 12:00** **O_4.1_105 The opportunity, capability and motivation of farmers to expand agroforestry and orchards in England**
Paul Burgess, Anil Graves, Lucy Dablin, Hannah Martin, Twinkle Panchal, Jeremy Bregaint, and Haoshen Li
- 12:15** **O_4.1_106 Increasing tree cover on Irish dairy and drystock farms: the main barriers and perceptions that impede agroforestry uptake**
Rachel Irwin, Áine Ní Dhubháin, Ian Short, Mohammad Mohammadrezai

12:30 O_4.1_107 Agroforestry dissemination under Organic Farming scope: The I Portuguese Encounter of Successional Agroforestry Systems
Ricardo Leitão, Rosa Guilherme, Isabel Dinis, Daniela Santos, Pedro Mendes-Moreira

13:00 Lunch

TOPIC 2

Quality, safety and sustainability of agroforestry productions

T2.2 - Timber, Energy And Non-Wood Forest Productions

Chair - Michal Pástor, National Forest Centre,
Forest Research Institute, Slovakia

15:00 O_2.2_66 Agroforestry produced hybrid poplar to implement green building with engineered wood products as foundation for the bio-based economy
Joris Van Acker

15:15 O_2.2_67 Peeling of agroforestry walnut: comparison of the deformation of agroforestry vs. forestry walnut veneers
Lucie Heim, Louis Denaud, Rémy Marchal, Joffrey Viguier, Jean-Claude Butaud, Kevin Candelier, Eric Badel

15:30 O_2.2_69 Black walnut (*Juglans nigra* L.) as a multifunctional and suitable tree species for agroforestry systems in Slovakia
Michal Pástor, Jaroslav Jankovič

-
- 15:45** **O_2.2_70 Mechanized pollarding of poplar trees in an alley cropping system**
Natascia Magagnotti, Raffaele Spinelli, Loris Agostinetto, Federico Correale, Giustino Mezzalana
- 16:00** **O_2.2_71 Mediterranean species *Myrtus communis* L. and *Castanea sativa* Mill., as natural source of bioactive compounds**
Paola Cetera, Silvia Medda, Angela Fadda, Raffaella Lovreglio and Maurizio Mulas
- 16:30** *Coffee break*
- 17:00** **EURAF General Assembly**
- 19:00** End
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THURSDAY

ROOM_B

19th MAY

Chamber of Commerce
via Papandrea - Nuoro
ROOM_B

TOPIC 1

Agroforestry and the environment

T1.2 - Biodiversity

Parallel session co-hosted by the project AGROMIX

Chair - Rosemary Venn, Centre for Agroecology, Water and Resilience (CAWR), Coventry University, UK

- 09:00** **O_1.2_24 Will biodiversity and ecosystem service benefits of alley cropping be similar to from traditional agroforestry systems?**
Felix Herzog, Jana Collatz, Martin Entling
- 09:15** **O_1.2_27 Vitiforestry: Farmers' intent to include almond trees into viticultural systems in Switzerland and Germany**
Lara Basile, Lukas Flinzberger, Sonja Kay
- 09:30** **O_1.2_28 Breeding birds in European Agroforestry systems**
Manon Edo, Verena Rösch, Martin Entling

-
- 09:45** **O_1.2_29 Nature-based Solutions in Tree Covered Systems: possibilities for biodiversity conservation in forests across gradients of wildness and land-use intensity**
Michael Straarup, Tommy Dalgaard, Signe Normand, Jens-Christian Svenning
- 10:00** **O_1.2_31 Establishing a Tree Crop Improvement Program within Savanna Institute Assembling germplasm repositories to support the breeding of Midwest-adapted agroforestry crops**
Scott Brainard, Eliza Greenman, Fred Iutzi, Keefe Keeley
- 11:00** *Coffee break*

TOPIC 1

Agroforestry and the environment

T1.3 - Landscape planning and management
Parallel session co-hosted by the
project BOSCOLAMENTO

Chair - Camilla Dibari, University of Florence, Department of Agriculture, food, environment, and forestry (DAGRI)

- 11:30** **O_1.3_43 Agroforestry systems in the European Union – extent and spatial distribution**
*Susanne Schnabel, Judit Rubio-Delgado,
Anthony Gabourel Landaverde,
Joaquin Francisco Lavado-Contador*

-
- 11:45** **O_1.3_44 A grazing experience of Aberdeen- Angus under poplar stand in Italy**
Simone Cantamessa, Giuseppe Nervo, Domenico Coaloa, Pier Mario Chiarabaglio
- 12:00** **O_1.3_42 Dehesas as high nature value farming systems: A social- ecological synthesis of drivers, pressures, state, impacts, and responses**
Tobias Plieninger, Lukas Flinzberger, Maria Hetman, Imke Horstmannshoff, Marilena Reinhard-Kolempas, Emmeline Topp, Lynn Huntsinger, Gerardo Moreno
- 12:15** **O_1.3_45 Use of remote sensing data and GEE (Google Earth Engine) for detection and monitoring of cork oak decline caused by *Phytophthora cinnamomi***
Andrea Brandano, Lorenzo Arcidiaco, Bruno Scanu, Giorgio Matteucci, Simone Mereu
- 12:30** **O_1.3_39 Agroforestry systems an important tool for environmental restoration and connection of Atlantic Forest remnants in the State of São Paulo-Brazil**
Maria Teresa Vilela Nogueira Abdo, Isabel Fonseca Barcellos, Antonio Pries Deivid, Joaquim Adelino de Azevedo Filho, Elaine Cristine Piffer Gonsalves, Teresa Cirstina Tarlé Pissarra, Gislaine Costa de Mendonça, Renata Egydio Carvalho Costa Mango, Marli Dias Mascarenhas, Monica Helena Martins, Marccella Lopes Berte, Thiago Ribeiro Coutinho
- 13:00** *Lunch*

TOPIC 3

Economy and policy of agroforestry

T3.4 - Governance for traditional sustainable agrosilvopastoral systems

Parallel session co-hosted by the project MIXED

Chair - **Julie Rohde Birk**, Innovation Center for Organic Farming, Denmark

- 15:00** **O_3.4_94** Co-creation of sustainable ecosystems and resilient livelihoods in agroforestry value chains: organized shade-grown coffee producers in Mexico
Antoine Libert Amico, Fernando Paz Pellat, Gontrán Villalobos Sánchez, Martín Bolaños González
- 15:15** **O_3.4_95** Trees on agriculture land
Dagnija Lazdiņa
- 15:30** **O_3.4_96** Re-thinking the national supply chain of summer truffle: towards investments structural small-scale on agroforestry
Enrico Vidale, Nicola Andrighetto, Gai Petit, Alessia Sartori, Jacopo Giacomoni, Davide Pettenella
- 15:45** **O_3.4_97** Land Consolidation Associations for the conservation and the restoration of agricultural landscapes
Giampiero Lombardi, Ginevra Nota, Pier Paolo Roggero, Giovanna Seddaiu
- 16:30** Coffee break

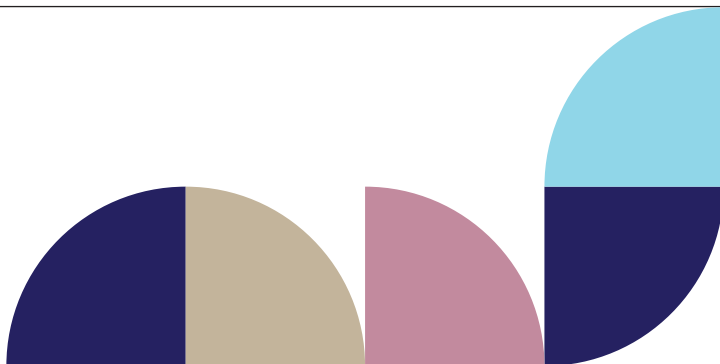
FRIDAY

20th MAY

Eliseo Theatre
via Roma 73 - Nuoro
ROOM_A

PLENARY SESSION 2

- 09:00** **Chair - Antonello Franca, CNR-ISPAA**
Research and Innovation towards the
sustainable development of silvopastoral systems
Teresa Pinto Correia, University of Évora (Online presentation)
- 09:30** **Chair - Adolfo Rosati, Council for**
Agricultural Research and Economics (CREA),
Digital agriculture: threat or opportunity for agroforestry?
Marie Gosme, INRAE Montpellier (Online presentation)
- 10:00** **Chairs - Alberto Mantino, Antonello Franca,**
AIAF, Associazione Italiana di Agroforestazione
Farmers experiences on agroforestry
Jacopo Goracci, Tenuta di Paganico, Grosseto, Italy
Pietro Todde, Fatima Todde Caseificio
Todde Desulo, Nuoro, Italy
- 10:40** **Sisef Poster Awards**
Pierluigi Paris, Sisef, Società Italiana di
Selvicoltura ed Ecologia Forestale
- 11:00** *Coffee break*



11:30 **Conference summary and statement**

12:00 **EURAF2024 launch**

Bohdan Lojka Czech University of Life Sciences Prague
Jakub Houška The Silva Tarouca Research Institute for
Landscape and Ornamental Gardening (VUKOZ)

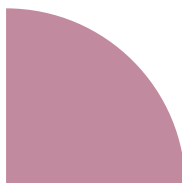
12:15 **5th World Agroforestry Conference announcement**

Alain Olivier, Université Laval, Quebec

12:30 **Conference closing**

Patrick Worms

13:00 *Lunch*



ADDING VALUE TO **AGROFORESTRY**

For over 30 years we have been dealing with certification in the Agricultural, Forestry and Biodiversity fields. We are now ready for the challenge required by the Green Deal transition: Agroforestry as a tool for Sustainability and promotion of the territories and their products.



POSTER SESSION

Virtual poster session during the whole conference

TOPIC 1 - AGROFORESTRY AND THE ENVIRONMEN

T T1.1 - CLIMATE CHANGE (ADAPTATION & MITIGATION)

**P_1_112 A review of carbon sequestration and storage
potential of agroforestry trees in Denmark**

Anne Mette Lykke and Jørgen Axelsen

**P_1_113 Interactions between trees, crops and pedosphere:
experiences in irrigated bioenergy-agroforestry system in Hungary**

*Beatrix Bakti, Csaba Bozán, Zsolt Keserű, Mihály Jancsó,
Ildikó Kolozsvári, Csaba Gyuricza, Agnes Kun*

**P_1.1_114 The valuation of forest ecosystem services in Kenya:
a comparative case study of Karura forest reserve
and Kakamega national forest reserve**

Erick O. Osewe and Ioan Vasile Abrudan

**P_1.1_115 Effect of the planting system on the carbon balance components
of a black locust-based agroforestry site under Mediterranean climate**

*Jérôme Ngao, Lorène Siegwart, Christophe Jourdan, Didier Arnal,
Rémi Dugué, Maxime Duthoit, Alain Rocheteau,
Carlos Trives-Segura, Isabelle Bertrand*

P_1.1_116 ROBUST: Agroforestry - a sustainable agricultural system for plant and milk production in northern temperate climate

Julie Rohde Birk

P_1.1_118 Simulating the effect of climatic variations on the long-term performance of different agroforestry systems within field trials using virtual experiments

Klaus A. Jarosch, Michelle Allen, Daniele Antichi, Mickaël Bernard, Lory Boutchakdjian, Paul Burgess, Lydie Dufour, Christian Dupraz, Jonathan Eden, Anil Graves, Marcello Mele, Gerardo Moreno, Alice Ripamonti, Rodrigo Olave, João Palma, Victor Rolo, Will Simonson, Colin Tosh, Lorenzo Gabriele Tramacere, Felix Herzog

P_1.1_119 GHG gas measurements in agroforestry system with different tree species and fertilization regimes

Kristaps Makovskis, Dagnija Lazdina, Arta Bardule

P_1.1_120 Investigation of the effect of plant and soil conditioners on irrigated agroforestry system (industrial poplar plantation; alfalfa)

Ágnes Kun, Ádám Palást, Zsolt Keserű, Mihály Jancsó, Csilla Török, Emese Sővágó, Ildikó Kolozsvári, Csaba Gyuricza, Beatrix Bakti

P_1.1_121 The environmental impacts of agroforestry in agri-food systems: a life cycle assessment approach

Mónica Quevedo Cascante, Lisbeth Mogensen, Anne Grete Kongsted, and Marie Trydeman Knudsen

P_1.1_122 The AgroForageTree project: Agroforestry for forage production in permanent grasslands using fodder tree hedgerows

Pierre Mariotte, Charlotte Grossiord, Sonja Kay, Frigga Dohme-Meyer, Silvia Ampuero Kragten, Sébastien Dubois, Paolo Silacci, Massimiliano Probo

P_1.1_124 Agroforestry systems to support sustainable agriculture in Serbia

Saša Kostić, Saša Orlović, Dejan B. Stojanović

P_1.1_125 Development of genomic tools for improving efficiency of selection in *Corylus americana* and *C. americana* x *C. avellana* hybrids Mitigating climate change through carbon sequestration by supporting the transition from annual to perennial agriculture

Scott Brainard, Julie Dawson, Lois Braun, Jason Fischbach, Fred Iutzi

P_1.1_127 Comparing production systems - including agroforestry - in organic vegetable production on the basis of microclimate data

Zita Szalai, Barbara Ferschl, Krisztina Boziné Pullai, László Csambalik

P_1.1_126 Synergies in integrated systems: Improving resource use efficiency while mitigating GHG emissions through well-informed decisions about circulari

Sophie Stein, Julia Schneider, Sabine Zikeli

P_1.1_128 CARAT: an online tool for quantifying carbon sequestration in agroforestry systems

Thomas Vanneste, Fien Vandekerchove, Tom Coussement, Kris Verheyen, Paul Pardon, Bert Reubens

P_1.1_129 Contribution of mountainous silvopastoral systems on soil organic matter in Evritania, Central Greece

Vasiliki Lappa and Anastasia Pantera

P_1.1_130 Climatic parameters in/of selected agroforestry systems

Jan Weger, Jakub Houška, Jan Šinko, Jiří Kučera, Jakub Červenka

TOPIC 1 - AGROFORESTRY AND THE ENVIRONMEN

T1.2 – BIODIVERSITY

**P_1.2_133 A transect survey of the functional characteristics
and biodiversity of weeds in modern silvoarable
agroforestry systems**

*Anna-Lea Ortmann, Teelke Meyenburg, Lutz Kosack,
Julia Binder, Thomas Middelani, Thomas Döring*

**P_1.2_134 Evaluation of tree species in agroforestry
enrichment of monoculture of *Calophyllum brasiliense*
Cambess in area of temporary water saturation**

*Antonio Carlos Pries Devid, Cristina Maria de Castro,
Antônio Carlos de Souza Abboud, Raul de Lucena
Duarte Ribeiro, Marcos Gervasio Pereira,
Maria Teresa Vilela Nogueira Abdo*

**P_1.2_135 A draft of a parasitoid dispersal model
applied in agroforestry**

Enrico Gabrielli

**P_1.2_136 Relationship between carnivore mesomammal
and agro-forest ecosystems in Vico Protected area**

Giulia Luzi, Giuseppe Puddu, Marzio Zapparoli

**P_1.2_137 Monitoring of biodiversity of two selected insect
groups in Agroforestry Systems in the Czech Republic**

*Jakub Houška, Jan Weger, Jaroslav Bubeník,
Bohdan Lojka, Dan Preininger*

**P_1.2_138 Natural recovery of vegetation in a highly anthropized
classified forest in Côte d'Ivoire**

Kouame Jean Marc Kouman, Yao Sadaïou Sabas Barima

P_1.2_139 Intercropping of buckwheat (*Fagopyrum esculentum* Moench) with oxytree (*Paulownia elongata* x *P. fortunei*) in Polish conditions

Marek Liszewski and Paweł Chorbiński

P_1.2_141 Long-term taxonomic changes in the species composition of Dokuchaev shelterbelts in the southern steppe of Ukraine

Nataliia Solomakha, Tetiana Korotkova, Svitlana Sydorenko, Serhii Sydorenko, Natalia Vysotska

P_1.2_142 Intensity and channelling of soil microbiological processes under the influence of shelterbelts

Svitlana Sydorenko, Serhii Sydorenko, Nataliia Solomakha

TOPIC 1 - AGROFORESTRY AND THE ENVIRONMENT

T1.3 - LANDSCAPE PLANNING AND MANAGEMENT

P_1.3_143 Concept for spatial evaluation of justified implementation potential of agrisilvicultural systems in hemiboreal Latvia

Andis Bārdulis, Jānis Ivanovs, Aldis Butlers, Dana Purviņa, Andis Lazdiņš, Dagnija Lazdiņa

P_1.3_144 A systematic approach to agroforestry system planning, case studies from Slovakia

Anna Mária Mitrová and Antonín Martíněk

P_1.3_145 Agro Fluvial Park of Calore Salernitano Restoration and valorization of historic and landscaped heritage of fluvial area in the territory of Aquara

Sofia Cerruti, Patrizia Giannattasio, Domenico Scorziello, Marzio Marino, Pasquale Maiale, Fabio De Feo, Nadia Chianese

P_1.3_146 Traditional and Innovative: A Review of Diverse Agroforestry Systems across European Landscapes and Cultures

Attila Tóth, Miroslav Čibík

P_1.3_148 Effects of Unplanned Space Utilisation on Water Resources of Serbia

Boško Josimović, Božidar Manić, Ljubiša Bezbradica

P_1.3_149 Satellite imagery for land classification and detection of agroforestry systems: a study case of Olive trees classification in Tuscany

Celeste Righi Ricco, Lorenzo Brilli, Piero Toscano, Federico Carotenuto, Ilaria Tabarrani, Beniamino Gioli

P_1.3_151 Developing row planting structures in agroforestry practices taking into account their potential for air phytoremediation

Ewa Podhajska, Anetta Drzeniecka-Osiadacz, Bronisław Podhajski, Tymoteusz Sawiński, Magdaena Zienowicz

P_1.3_153 Strengthening agroforestry facilities through ecological restoration work to improve biodiversity and carbon storage: the example of the La Condamine urban

Stéphane Person and Laurent Limouzy

P_1.3_154 Exploiting the Google Earth Engine platform for mapping agroforestry in Italian rural landscape

Francesca Chiocchini, Marco Ciolfi, Maurizio Sarti, Marco Lauteri, Pierluigi Paris

P_1.3_156 Approach for prioritizing areas for watershed restoration through agroforestry systems

Gislaine Costa de Mendonça, Luis Miguel da Costa, Maria Teresa Vilela Nogueira Abdo, Fernando Antônio Leal Pacheco, Teresa Cristina Tarlé Pissarra

P_1.3_157 Analysis of current changes and future scenarios for a correct management of agro-forestry systems in a protected area in Lazio: the example of the Lago di Vico Natural Reserve

Gianluca Sabatini, Simone Bollati, Giulia Luzi, Carlo Rossi, Riccardo Di Cintio, Giuseppe Puddu

**P_1.3_158 Quantification of shade cast by windbreaks
of different sizes in South Africa**

*Jonathan P Sheppard, Christopher Morhart, Claudio J. Cuaranhua,
Rafael Bohn Reckziegel, Thomas Seifert, Hans-Peter Kahle*

**P_1.3_159 Detecting stemflow-induced preferential flow pathways
through time-lapse ground-penetrating radar surveys**

*Elisa Marras, Ludmila Ribeiro Roder, Simone Di Prima, Filippo
Giadrossich, Sergio Campus, Pier Paolo Roggero*

**P_1.3_160 Thirty-year Trend of Forest Seedling Production in Croatia in
Respect to Agroforestry Needs and Opportunities**

Martina Đodan and Sanja Perić

**P_1.3_162 Incorporating ecosystem services in evaluating the sustainability
of innovative organic farming systems using the Public Goods tool**

*Michael den Herder, Laurence Smith, Lisa Arguile, Rowan Dumper-
Pollard, Robert Borek, Alina Syp, Andrea Pisanelli, Claudia Consalvo,
Mercedes Rois Díaz, Sandor Mignon, Adrian Eugen Gliga, Hilde
Wustenberghs, Alba Alonso Adame, Rosario Michel-Villarreal,
Antti Tiilikainen, Timokleia Orfanidou, Valerie Holzner*

**P_1.3_165 Assessing the benefits and functions of urban agroforestry
and the potential for the city of Budapest**

Paloma Gonzalez de Linares

**P_1.3_166 Do distance-dependent competition indices contribute to improve
diameter and total height growth estimates in undebarked cork oak trees?**

Paulo N. Firmino, Joana A. Paulo, Margarida Tomé

**P_1.3_167 Tree-based agriculture on Mediterranean terraces:
continuing the story by renewing practices**

*Anna Dupleix, Rémy
Marchal, Léana Coutant, Fabien Liagre, Daniele Ori*

P_1.3_169 Agroforestry and landscape planning, a territorial transition

Simon Lacourt, Yves Petit Berghem

TOPIC 1 - AGROFORESTRY AND THE ENVIRONMENT

T1.4 - WILDFIRES

P_1.4_168 Mapping forest stands using Sentinel-2 data to realize a fire management plan

*Gianluca Sabatini, Simone Bollati, Giulia Luzi, Carlo Rossi,
Riccardo Di Cintio, Lucia Modonesi*

P_1.4_172 Poor roads, lack of water and sighting points: planning for fire defence in suboptimal conditions

*Rocco Sgherzi, Angela Bistoni, Gianluca Sabatini, Simone Bollati,
Alessio Patriarca, Lucrezia Badalassi, Lucia Modonesi*

P_1.4_173 Interferences between man and forest in a small-protected area: Natural Reserve Valley of Arcionello and the fire hazard

*Gianluca Sabatini, Simone Bollati, Giulia Luzi, Carlo Rossi,
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*Tommaso Richelmy, Giovanni Antonio Re, Federico Sanna,
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*Francesca Ugolini, Silvia Baronti, Giuseppe Mario Lanini, Anita Maienza,
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*Stefanos Ispikoudis, Konstantin Mantzanas, Andreas Papadopoulos,
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Yakima Schwenger, Andreas Bürkert, Tobias Plieninger





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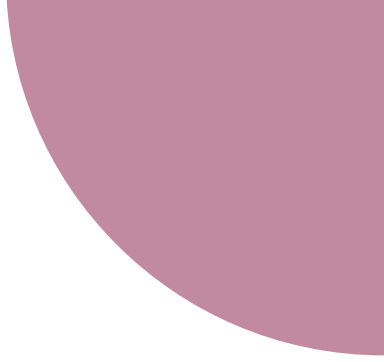


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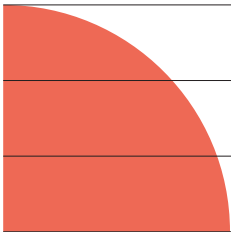


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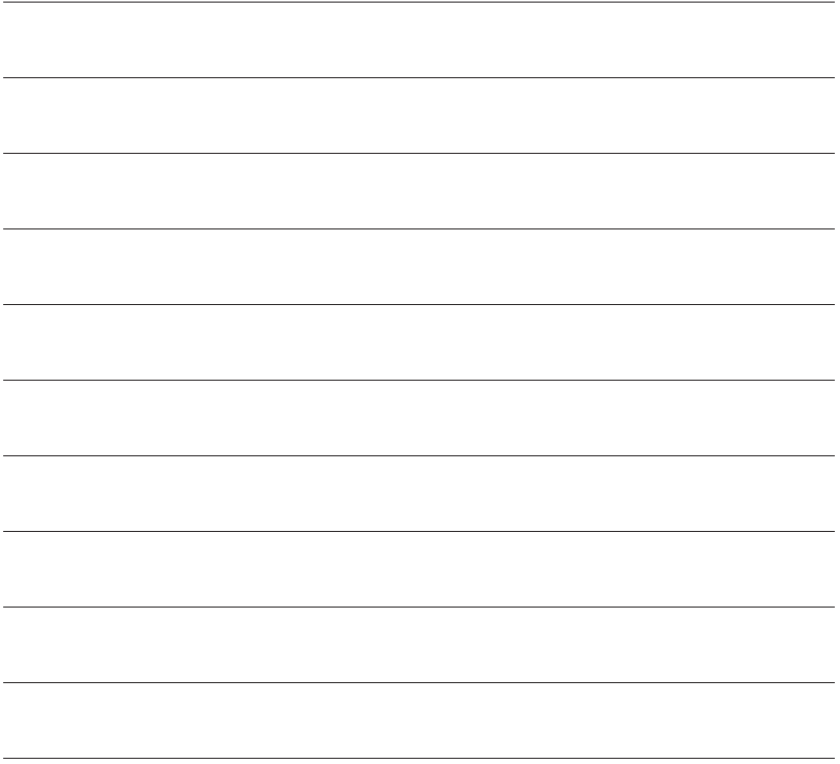
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