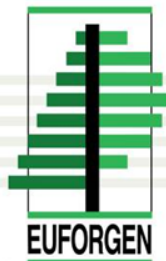


Strategia pan-Europea per la conservazione della diversita' genetica forestale

Michele Bozzano
EUFORGEN Coordinator

30 Maggio 2018, Roma



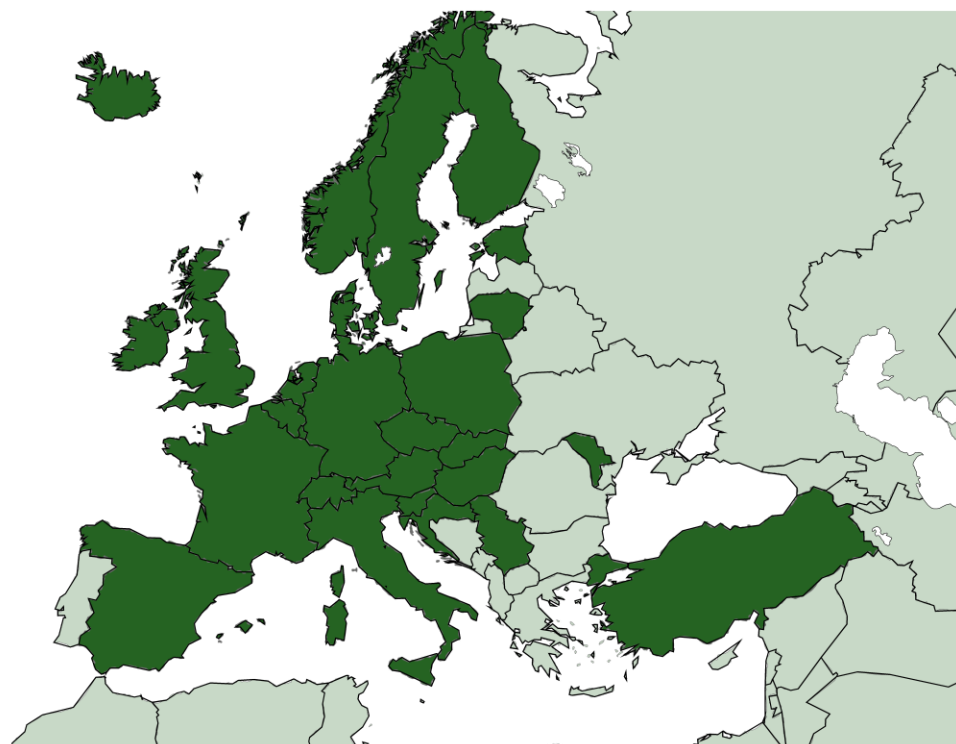
Cosa e' EUFORGEN

Programma collaborativo sulle risorse genetiche forestali

Finanziato dai Paesi membri

Fasi quinquennali
Fase V 2015-19

Consenso
governativo



Mandate

creato nel **1994** come risposta alla **FOREST EUROPE Strasbourg Resolution 2**



nel **2015** **FOREST EUROPE** signatories committed to **Madrid Resolution 2:**

“Continue pan-European collaboration on forest genetic resources through the **EUFORGEN**”

“Promote national implementation of strategies and guidelines for **dynamic conservation and appropriate use of FGR** under changing climate conditions”

Obiettivo di EUFORGEN

Obiettivo finale di EUFORGEN e' di promuovere la conservazione e l'uso sostenibile delle risorse genetiche forestali in Europea come parte integrante della gestione forestale sostenibile

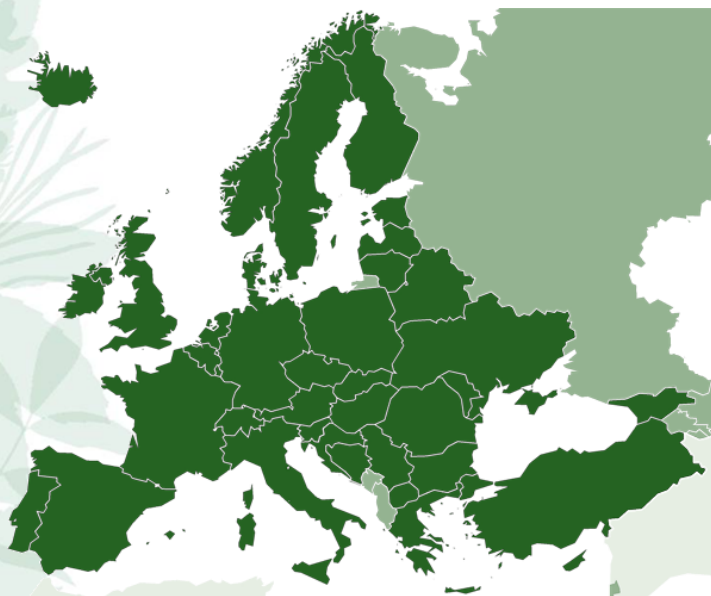
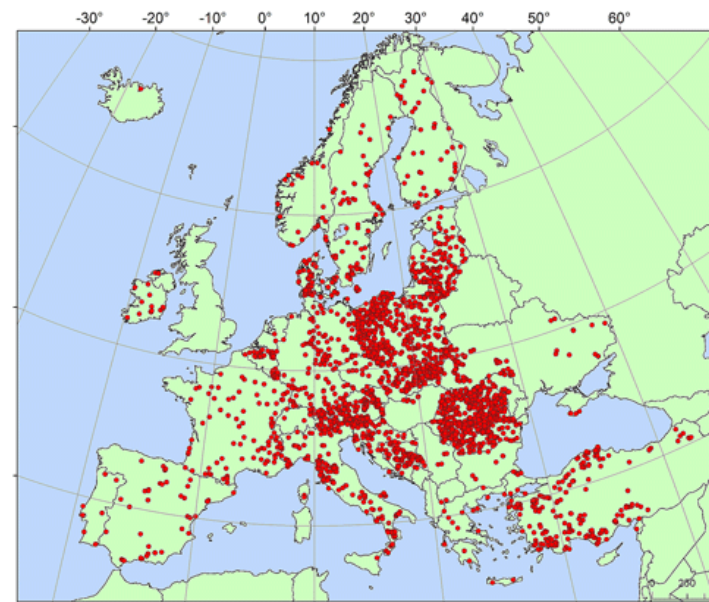






EUFGIS

portal.eufgis.org



Genetic conservation units
Data standards
Data providers
EUFGIS project
Tools
Links
Send feedback
Contacts
Privacy Policy
Site map

Home > Search

Search Results

You searched for all records.

Records found: 4067.

You can view the search result in [HTML] format or using [Google Maps]. You can also download then in [CSV] format.

Countries (no. of units)

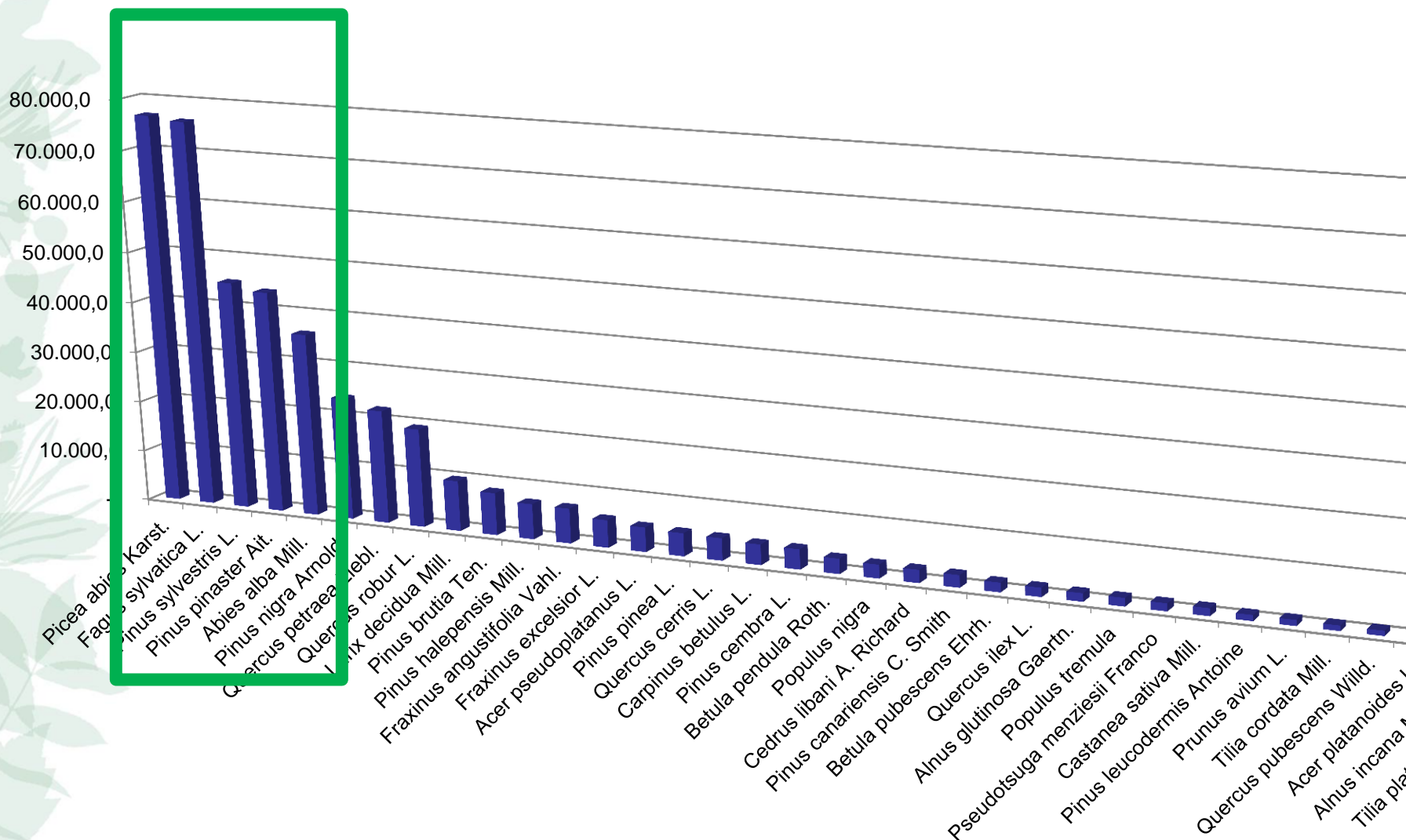
Austria (278);	Belgium (31);	Bosnia and Herzegovina (112);	Bulgaria (6);
Croatia (18);	Czech Republic (32);	Denmark (73);	Estonia (10);
Finland (45);	France (94);	FYR Macedonia (3);	Germany (127);
Greece (15);	Hungary (6);	Iceland (1);	Ireland (16);
Italy (242);	Latvia (34);	Lithuania (133);	Luxembourg (26);
Moldova (22);	Netherlands (10);	Norway (23);	Poland (609);
Portugal (10);	Romania (652);	Serbia (9);	Slovakia (122);
Slovenia (41);	Spain (43);	Sweden (72);	Switzerland (3);
Turkey (217);	Ukraine (85);		

Species (no. of populations)

Abies alba (319);	Abies bonisi-regis (4);	Abies bornmuelleriana (2);	Abies cephalonica (3);
Abies cilicica (1);	Abies equi-trojani (2);	Abies nebrodensis (1);	Acer campestre (7);
Acer monspessulanum (3);	Acer platanoides (33);	Acer pseudoplatanus (91);	Alnus cordata (5);
Alnus glutinosa (86);	Alnus incana (10);	Alnus viridis (1);	Betula pendula (57);
Betula pubescens (24);	Buxus balearica (1);	Carpinus betulus (45);	Carya ovata (1);
Castanea sativa (16);	Cedrus libani (17);	Corylus avellana (3);	Corylus colurna (2);
Cupressus sempervirens (5);	Fagus orientalis (23);	Fagus sylvatica (476);	Fagus taurica (1);
Frangula alnus (16);	Fraxinus angustifolia (18);	Fraxinus excelsior (98);	Fraxinus ornus (1);
Ilex aquifolium (3);	Juglans nigra (2);	Juglans regia (3);	Juniperus communis (1);

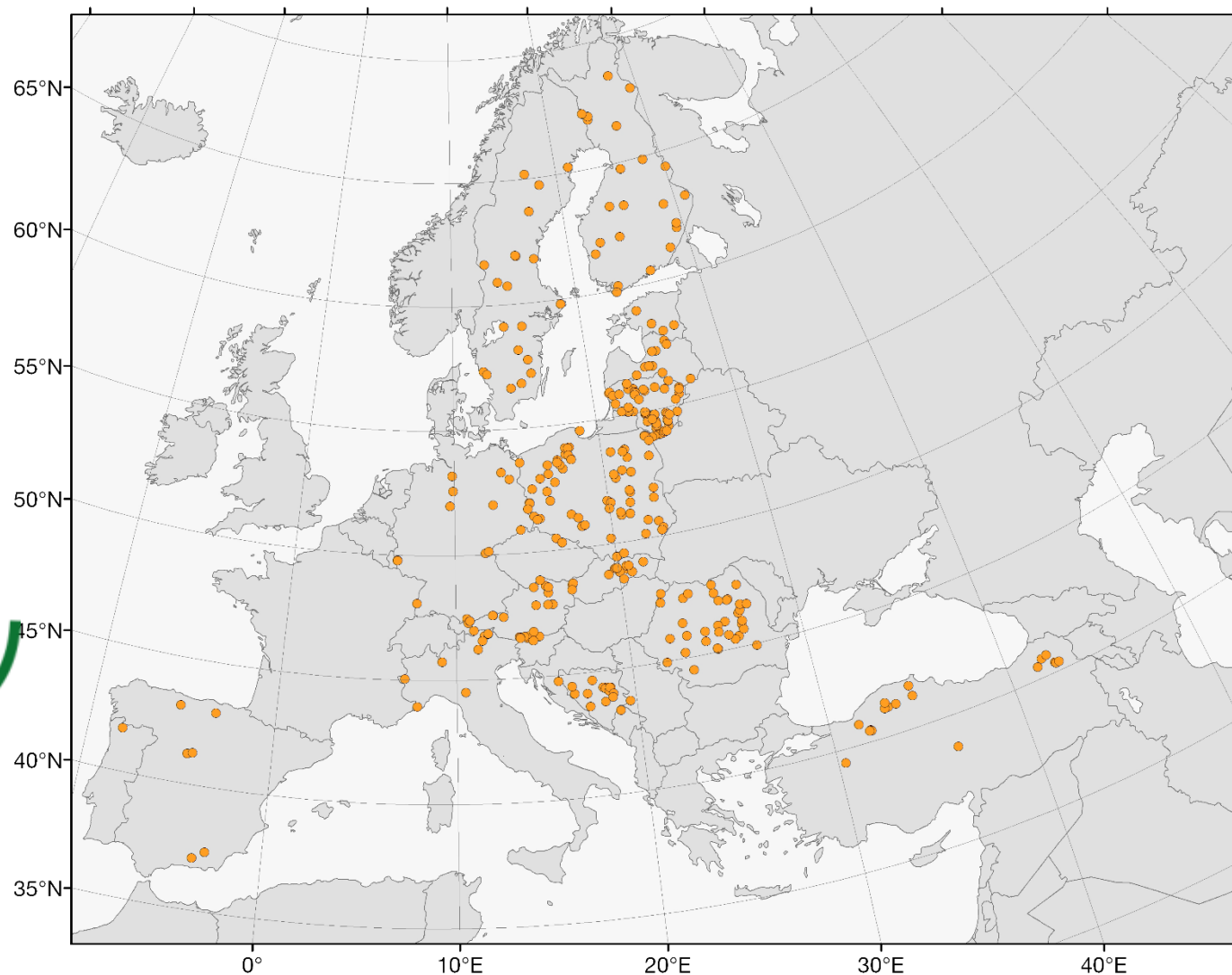


Conservazione *in situ*





Pinus sylvestris

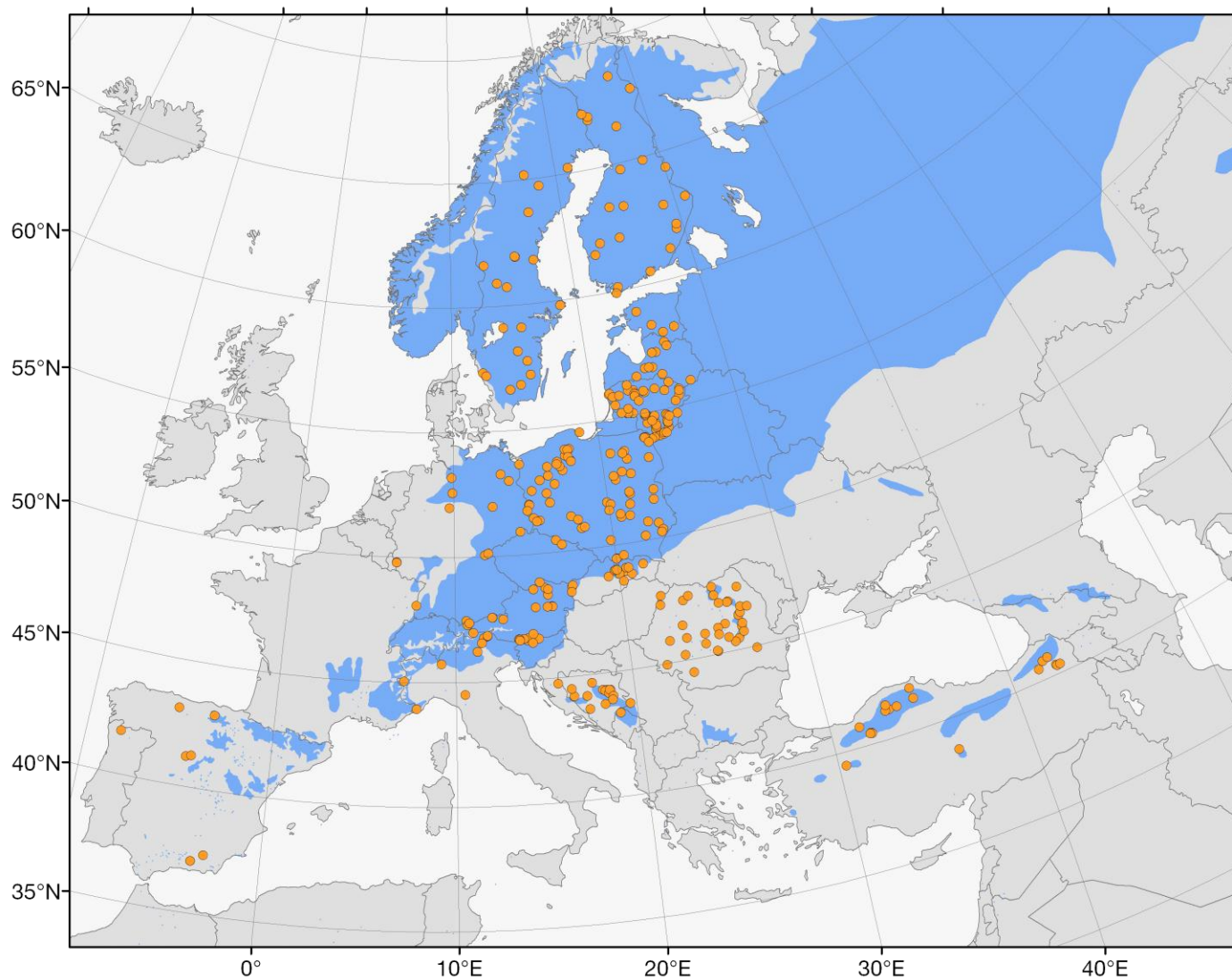


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0 250 500 1,000 Km

Pinus sylvestris

- *Pinus sylvestris* GCU
- *Pinus sylvestris* range



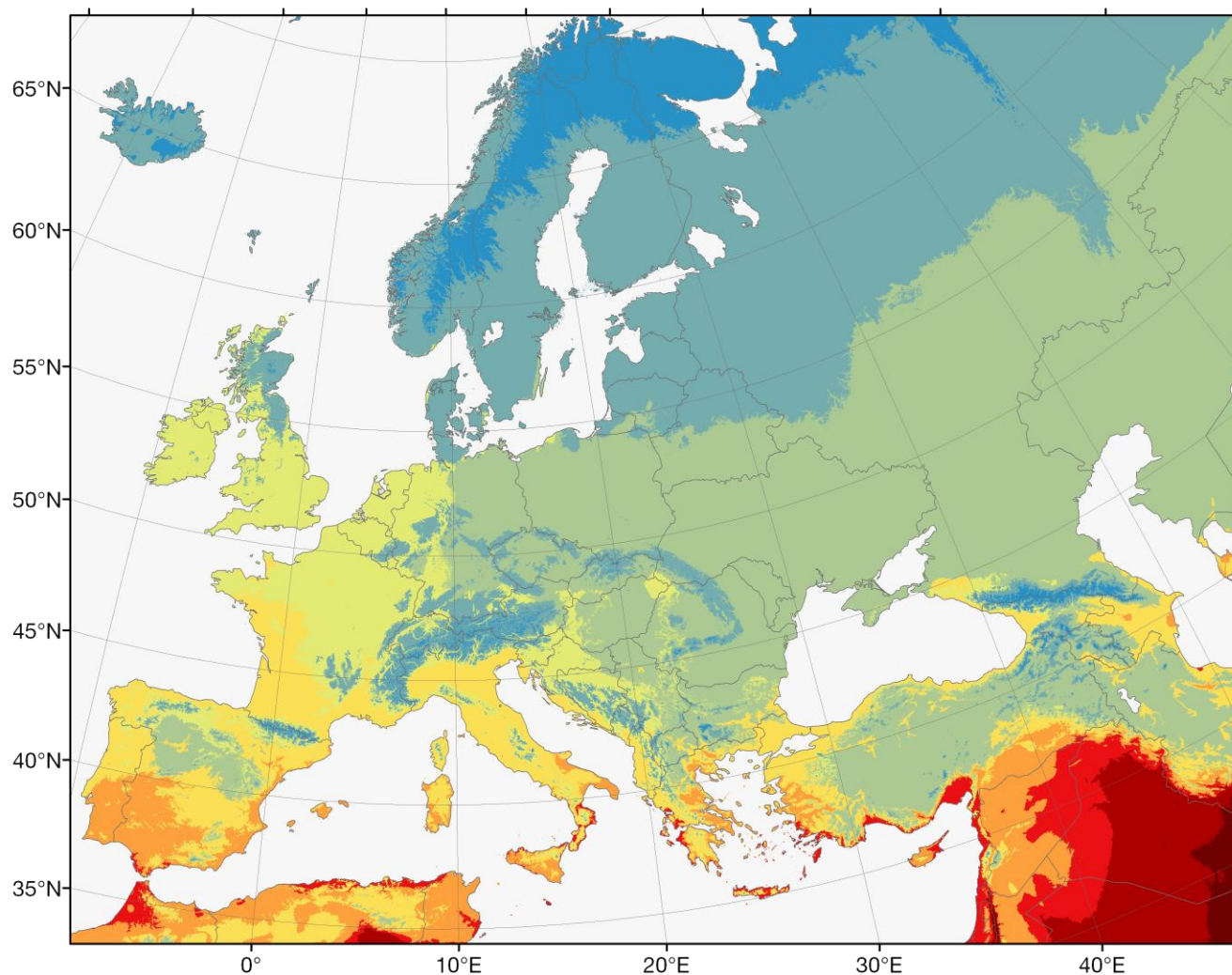


How

- Extremely cold - ABCDF
- Cold and moist - EG
- Cool and dry - HI
- Cool and moist - J
- Warm and moist - K
- Warm and dry - L
- Hot and moist - M
- Hot and dry - N
- Hot and arid - O
- Extremely hot and arid - PQ

Aggregated
environmental
zoning of
Europe
(based on
Metzger *et al.*,
2013)

0 250 500 1,000 Km





Pinus sylvestris

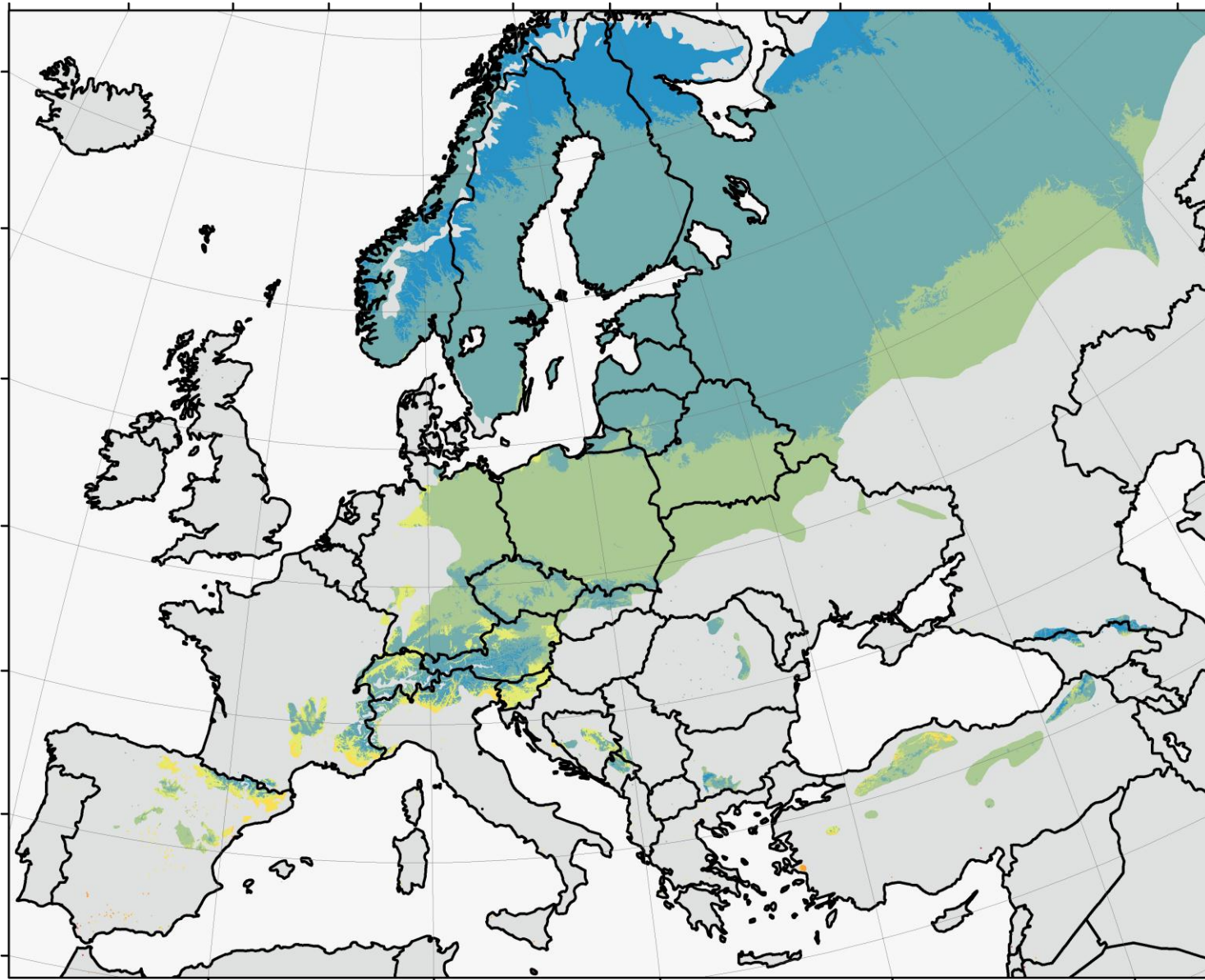
(Environmental classification)

Pinus sylvestris



Aggregated
environmental
zoning of Europe
(based on Metzger
et al., 2013)

0 250 500 1,000 Km





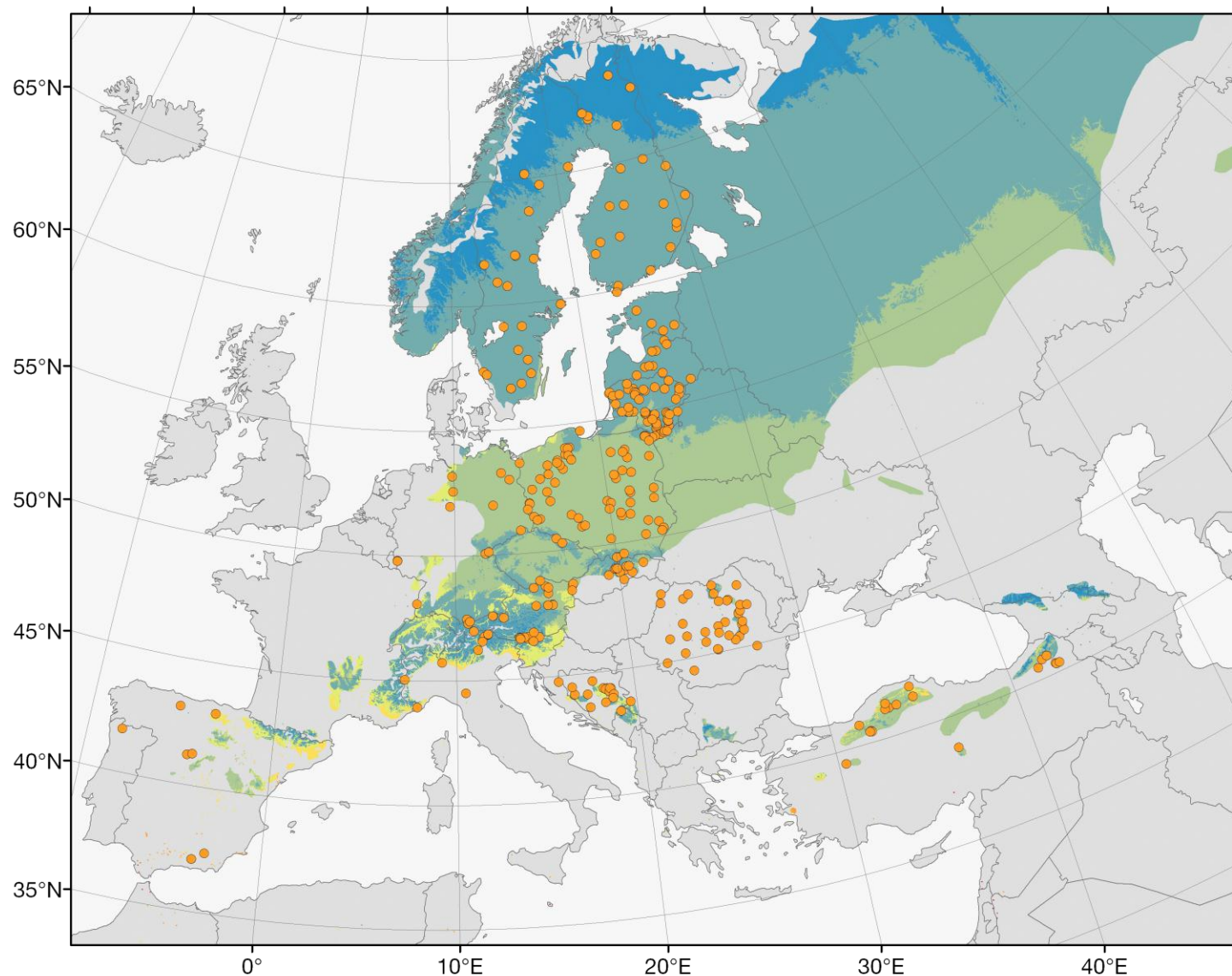
Pinus sylvestris

(Responsabilita' nazionali)

Pinus sylvestris

- Extremely cold - ABCDF
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- Cool and moist - J
- Warm and moist - K
- Warm and dry - L
- Hot and dry - N
- Hot and arid - O
- Extremely hot and arid - PQ

● *Pinus sylvestris* GCU





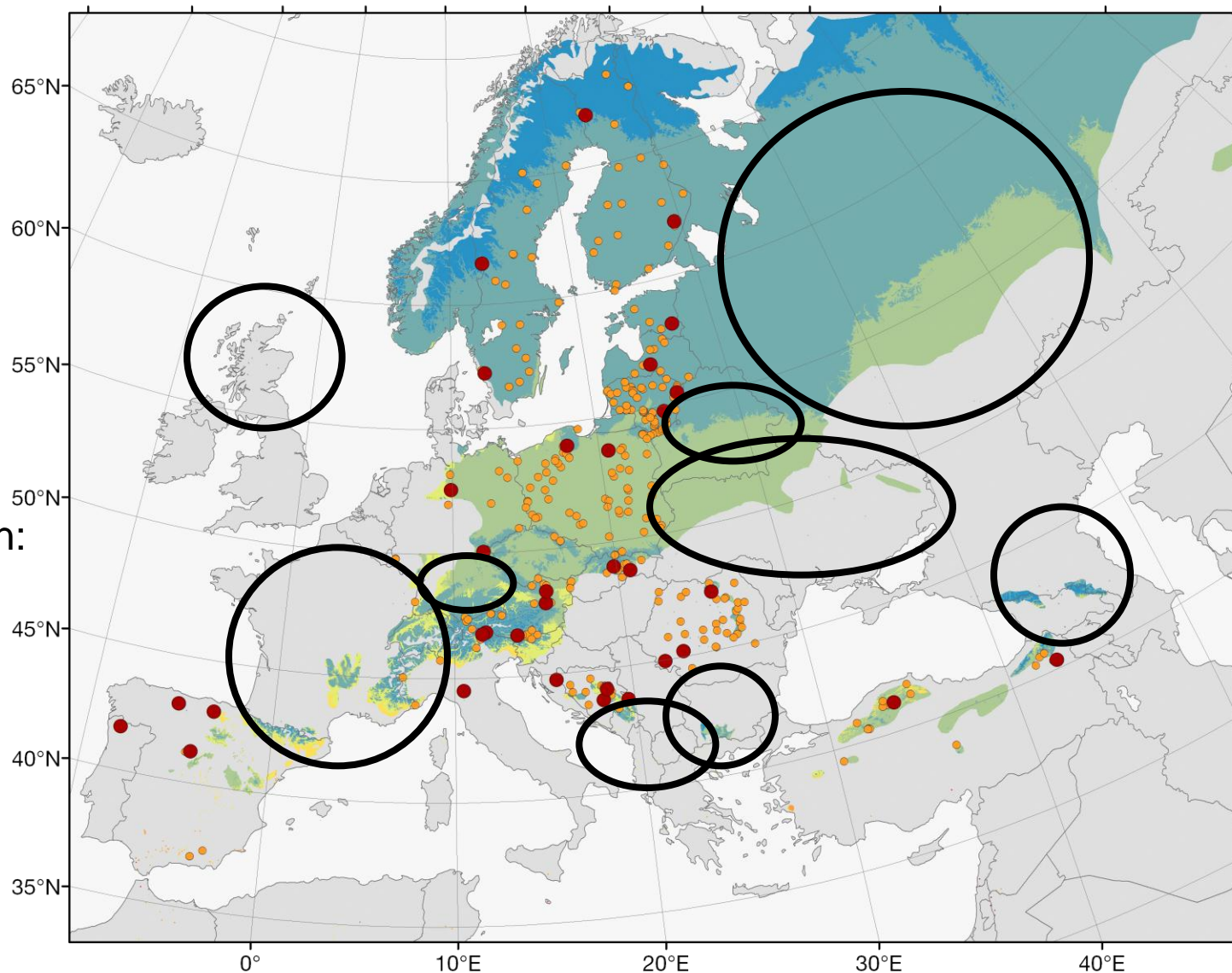
Pinus sylvestris conservation gaps

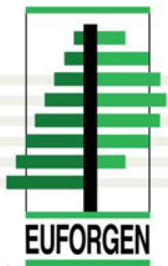
Pinus sylvestris

- Extremely cold - ABCDF
- Cold and moist - EG
- Cool and dry - HI
- Cool and moist - J
- Warm and moist - K
- Warm and dry - L
- Hot and dry - N
- Hot and arid - O
- Extremely hot and arid - PQ
- genetic conservation units
- Selected genetic conservation units

Ranking based on:
number of trees
ownership
management
area

0 250 500 1,000 Km





www.euforgen.org/member-countries/italy

National coordinator

Fulvio Ducci

Council for Agricultural Research and Economics -
Forestry Research Center (CREA-SEL)
Viale Santa Margherita 80
52100 Arezzo, Italy
✉ Fulvio.ducci@crea.gov.it

Quick Info

Letter of Agreement signed on 16 Feb 2015
Member since 1994

Experts

Fulvio Ducci, Council for Agricultural Research and Economics - Forestry Research Center (CREA-SEL)

Maria Cristina Monteverdi, Council for Agricultural Research and Economics - Forestry Research Center (CREA-SEL)

Roberta Proietti , Council for Agricultural Research and Economics - Forestry Research Center (CREA-SEL)

Maurizio Sabatti, University of Tuscia

Alberto Santini, National Research Council of Italy, Institute for Sustainable Plant Protection (CNR)

Giovanni Giuseppe Vendramin, National Research Council of Italy, Institute of Biosciences and Bioresources (CNR-IBBR)

Lorenzo Vietto, Council for Agricultural Research and Economics - Research Unit for Wood Production Outside Forest (CREA-PLF)



Focal point

Maurizio Marchi
Forestry Research Centre

A total of **206** genetic conservation units have been established in Italy for the following species:



EFI Scientific Seminar and side events –Alghero 25-28 September

Tuesday 25 September

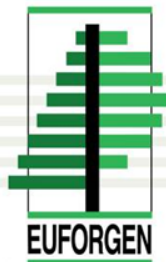
- Scientific seminar “Genomics of Trees and Sustainable Development”

Wednesday 26 September

- Scientific seminars “Roots to riches - Genetics & products of stone pine & Mediterranean oaks”
- Examining the role of Mediterranean oaks in the forest-based bioeconomy

Thursday 27 September

Scientific Seminar: Forests: Interconnecting Sustainable Development Goals to Action



Research that matters - applying tree genomics to sustainable development

25 settembre

Keynote Speakers

- **Dr. Ramni Jamnadass** (ICRAF Global Theme Leader –TREES). **Integrated knowledge and action including genetic diversity that is required and may contribute to the sustainable use and conservation of native trees in developing countries.**
- **Dr. Enoch Achigan Dako** (Laboratory of Genetics, Horticulture and Seed Science, Faculty of Agronomic Sciences, University of Abomey-Calavi, Benin Republic). **Guidelines for genomic-enabled development of improved cultivars in orphan and native fruit tree species.**
- **Chris Kettle** (Bioversity). **Are novel tools always the best? Applying genomic approaches in research for Development, a forest perspective.**

[Call for oral presentations and posters](#) (Deadline: 15 June 2018)

Roots to riches

Genetics & products of stone pine & Mediterranean oaks

An EFIMED – EUFORGEN – EVOLTREE side event

Wednesday 26 September 2018

PROGRAMME

Part I Genetics, management and uses of stone pine and cork oak

09:00-10:30 *Pinus pinea*

Keynote 1 Understanding the genetics of *Pinus pinea*. How it expanded across the Mediterranean and what it means in the present and future
Santiago C. González-Martínez, INRA, France

Keynote 2 Managing *Pinus pinea* forests for people and nature in Tunisia. Key challenges.
Tbc

2-3 presentations from open call

10:30-11:00 Coffee break

11:00-12:30 *Quercus suber*

Keynote 1 An overview on the genetics of *Quercus suber* in the Mediterranean. Implications for management
José Alberto Ramírez-Valiente, Forest Research Centre (INIA-CIFOR), Spain

Keynote 2 Cork value chains in Sardinia: Challenges and opportunities
Tbc

2-3 presentations from open call

12:30-13:00 Discussion

13:00-14:00 Lunch break



www.efi.int



Roots to Riches

Genetics & products of stone pine & Mediterranean oaks

Part II Examining the role of Mediterranean oaks in the forest-based bioeconomy

In collaboration with European Hardwoods Innovation – EHIA and FCBA

14:00-14:10 Welcome, objectives and methodology of the session
Andreas Kleinschmit, FCBA, France

14:10-14:25 **Setting the Scene**
What role for Mediterranean oaks in the forest-based bioeconomy
Inazio Martínez de Arano, EFIMED, Spain

14:25-14:55 Food for thought!

Increasing resilience of Mediterranean oak forests
Tbc

Why mixed polycyclic plantations in the Mediterranean?
Paolo Mori, Compagnia delle Foreste, Arezzo, Italy

Current and future uses for Mediterranean hardwoods
Tbc

14:55-15:35 Poster session Lightning talks (poster topics from both parts I & II)

15:35-16:00 Refreshments (and opportunities to view posters)

16:00-17:00 Parallel Workshops (group discussion)

A How to secure and increase the resource by safeguarding its multi-functionality
Animated by Jo van Brusselen, EHIA & EFI, Finland

B Tackling the challenges for mobilisation of Mediterranean oaks for the forest-based bioeconomy
Animated by Andreas Kleinschmit

17:00-17:15 Wrap-up of workshop findings and outlook
Key themes for a new COST ACTION PROPOSAL for Mediterranean oaks
Jo van Brusselen

17:15-17:25 Best Poster Award

17:25-17:30 Closing words
Michele Bozzano, EUFORGEN, Germany



Thursday 27 September **Scientific Seminar**

Forests: Interconnecting Sustainable Development Goals to Action

Programme

- 9.00–9.30 Opening**
Moderator: Giuseppe Scarascia-Mugnozza, Professor, Institute of Agro-environmental and Forest Biology (IBAF)
Phil Hogan, Commissioner for Agriculture & Rural Development, European Commission
Maurizio Martina, Minister of Agricultural, Food and Forestry Policies, Italy *
Francesco Pigliaru, President , Autonomous region of Sardinia *
Knut Øistad, Chair of EFI Board, Head of Department/ Head of Research, Division of Food Production and Society NIBIO
- 9.30–10.45 Setting the scene**
Chair: Esko Aho, former Prime Minister of Finland
- 9.45 The need for a new economic model as basis for sustainable development**
Janez Potocnik, Co-Chair, UN International Resource Panel
- 10.00 Making the UN Sustainable Development Goals work for sustainable well-being**
Robert Costanza, Professor, Australian National University
- 10.15 State of world forests 2018**
Eva Müller, Director, Forestry Policy and Resources Division, FAO
Discussion (15mins)



Thursday 27 September **Scientific Seminar**

Forests: Interconnecting Sustainable Development Goals to Action

11.15–13.15 Forests interconnecting SDGs: opportunities, challenges and communication

Moderator: Georg Winkel, Head of Resilience Programme, EFI

11.30 Sustainable development goals: Their impacts on forest and people

Carol Colfer, Editor, IUFRO WFSE

11.45 Why bioeconomy is key for sustainable development? Why now?

Lauri Hetemäki, Assistant Director, EFI

12.00 Panel discussion: creating a compelling forest narrative, moderated by Tom Heap, BBC

- Christine Farcy, Vice Chair of EFI Board, Senior Reseracher, Université Catholique de Louvain
- Salina Abraham, President, International Forestry Students Association
- Sonya Angelica Diehn, journalist, Deutsche Welle (DW)
- Elisabetta Tola, science journalist freelance

13.05-13:10 Concluding the session

Georg Winker, Head of Resilience Programme, EFI



Thursday 27 September **Scientific Seminar**

Forests: Interconnecting Sustainable Development Goals to Action

14.30 -17.00 Mediterranean Forestry for sustainable development: Innovating with nature

14:30 Welcome words

Chair: Giuseppe Scarascia-Mugnozza, Professor, Institute of Agro-environmental and Forest Biology (IBAF)

14:40 Interconnected Challenges: Climate Change and Social disruption

Grammenos Mastrojeni, Coordinator for eco- sustainability initiatives at Italian Aid - Cooperazione allo Sviluppo, Ministry of Foreign Affairs, Italy*

15:05 The role of forests in addressing Climate Change in the Mediterranean

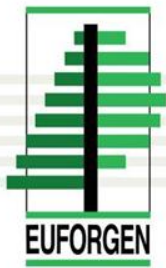
Ricardo Valentini, Professor, University of Tuscia, Italy*

15:30-16:30 Panel discussion: creating value from Mediterranean forests for rural and urban communities, moderated by Inazio Martínez, EFI

- Magda Bou Dagher Kharrat, Professor, Saint Joseph University, Lebanon*
- Burcu Tuncer, Team Leader, SwitchMed Facility at the Regional Activity Centre for Sustainable Consumption and Production*
- Francisco Carvalho, Director, Amorim Cork*
- Fabio Salbitano, Professor, University of Firenze*

16:30- 16:45 Concluding remarks

Donatella Spano, Assessore della Difesa dell'Ambiente, Regione Sardegna*



Michele Bozzano

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