

SOCIETY FOR ECOLOGICAL RESTORATION EUROPE

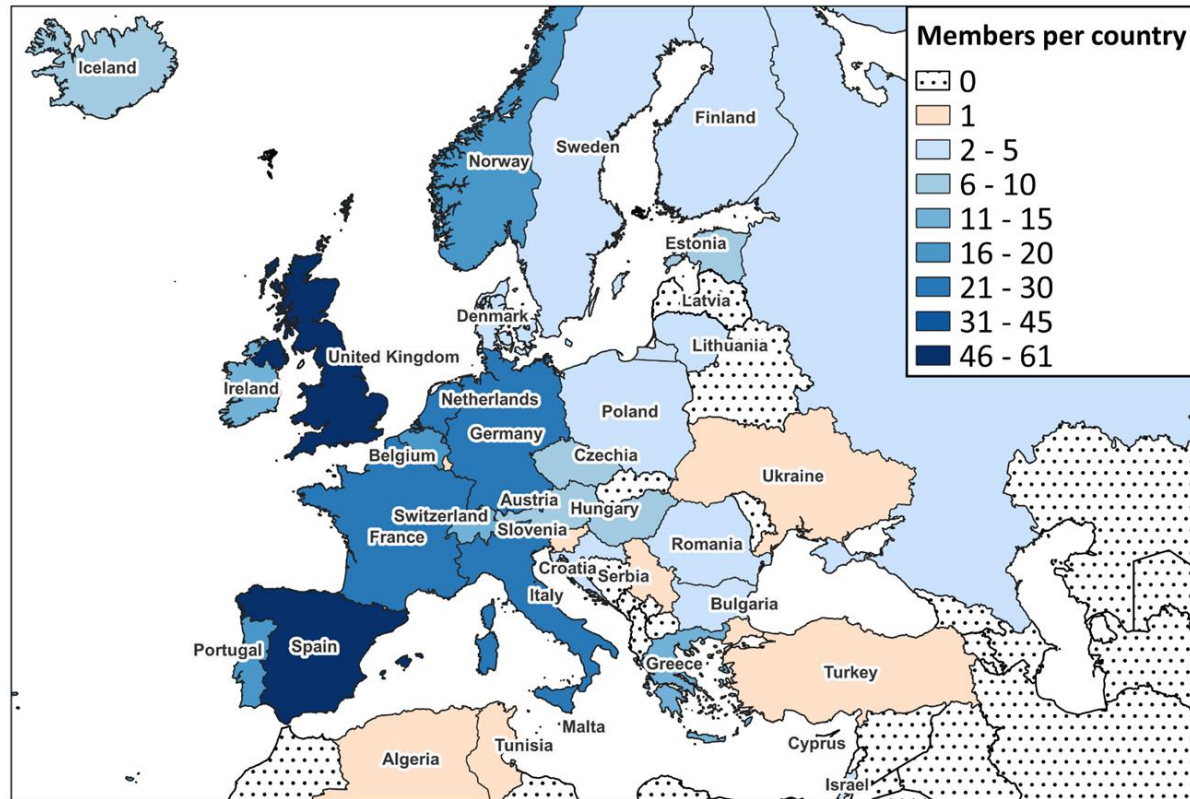




- SER contributes to **bridging the gap between science and policy/practice** for ER.
- **International network** of practitioners, researchers, indigenous people, non-governmental organization representatives, consultants, land managers and governmental agency staff who work in the field of ecological restoration.
- With more than **4,500 members in 100 countries**, SER is well-respected as the primary global entity regarding restoration issues.
- SER members study and practice restoration in almost **all ecosystem types** – from prairies, savannas, and forests to tidal estuaries, freshwater wetlands, and coral reefs.

SER EUROPE, GROWING WITH SOCIETY

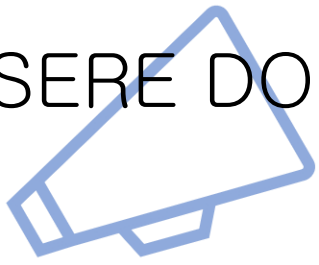
SERE members 12/2022 (475)



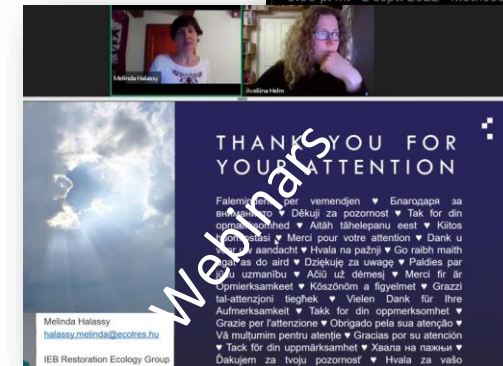
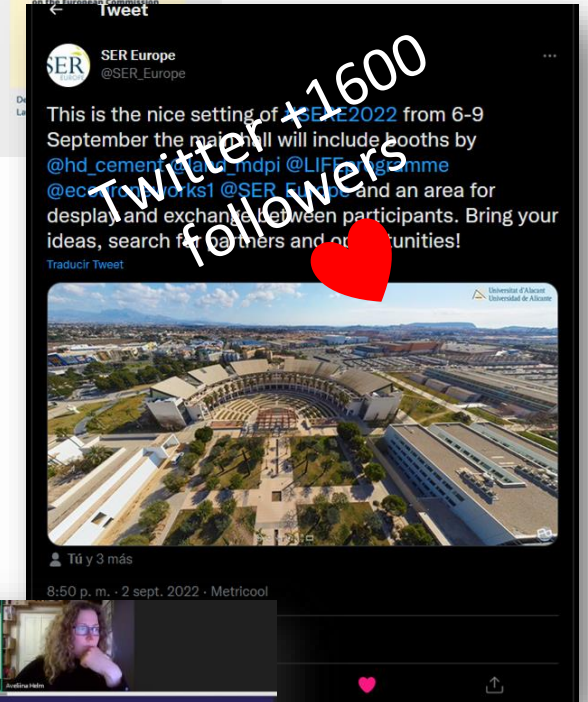
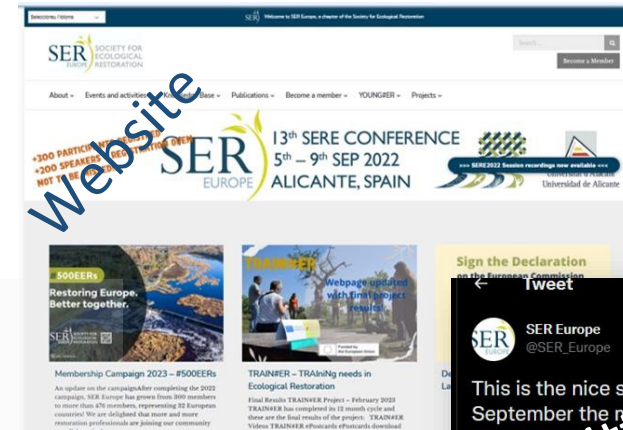
Network of networks



WHAT SERE DOES

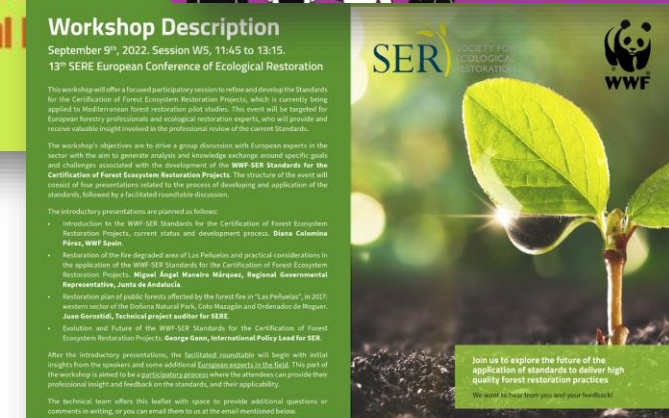


- ❖ **Communication and dissemination.** Organization of events. Social and mass media. **DISSEMINATE RESULTS**
- ❖ Governance, stakeholder and citizenship **engagement and empowerment. Education and training.** **EDUCATION AND TRAINING MATERIALS, EVENTS**
- ❖ **Policy design**, implementation and evaluation for large scale and local habitat restoration. **ANALYSIS AND RECOMMENDATIONS**
- ❖ **Design, implementation, and training in quality standards** for habitat-type restoration activities. **STANDARDS FOR SPECIFIC SECTORS** (e.g., Agriculture), **CERTIFICATION SCHEMES**
- ❖ Foster **progress in evaluation and monitoring** of restoration projects. **INDICATORS, MONITORING PROTOCOLS**
- ❖ **Appointment of experts** in Ecological Restoration to participate in project assessment, consultancy, etc. **COLLATE, ANALYZE, SYNTHESIZE KNOWLEDGE**



WHAT SERE DOES

- **Mediterranean Forest Restoration Certification Pilot (2021-2023).** Foundation Audemars-Watkins
- **YOUNG#ER Opportunities (2022).** SERE
- **#500EERs Membership Campaign (2022) + New Organisational members Campaign 2023.** SER
- **WoodMeadows (2022-2025).** LIFE program LIFE20 NAT/EE/000074
- **TRAIN#ER–TRAINiNg needs in Ecological Restoration (2022-2023).** Erasmus+ Program
- **ALFAWETLANDS (2022-2026).** Horizon Europe CL5 Climate, energy and mobility
- **CLIMAREST (2023-2025).** Horizon Europe. Atlantic & Arctic basin lighthouse - restoration of marine & coastal ecosystems and increased climate resilience...
- **Biodiver'Cité et Résilience (2023-2027).** LIFE Program





Funded by
the European Union

TRAIN#ER

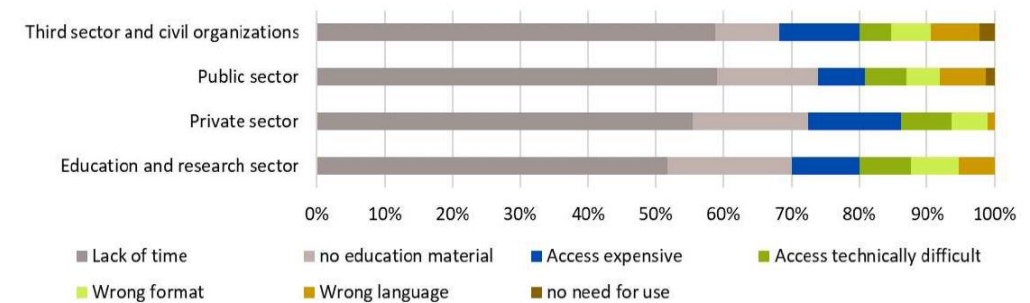


TRAINING NEEDS FOR ECOLOGICAL RESTORATION

- Survey with 333 respondents from 25 countries.
- 5 Focus Groups (Czechia, Germany, Spain, Norway, Europe wide), 54 participants from public, private, research and third sector.
- Need for **specialized ER education programs** (+73% respondents).
- **Case studies, planning and restoration methods and sector-specific measures** are most demanded in ER training.
- **Demonstration sites** specifically for ER training proposed in each TRAIN#ER country.
- Potential of **existing platforms and networks** (e.g., SER Resource Platform, Agricultural Knowledge and Innovation Systems, AKIS) to integrate ER in agroecosystems.
- Urgent need for qualified **secondary school and VET teachers and innovative educational materials** to support their work.



Barriers to acquiring new knowledge on ER



All TRAIN#ER results and documents:

<https://chapter.ser.org/europe/trainer/>

QUALITY- STANDARDS/CERTIFICATION

Documented agreements containing ... criteria to be used consistently as rules, guidelines or definitions, to ensure that ... processes and services are fit for purpose (From ISO)

GOOD PRACTICE

GOOD PRACTICE

GOOD PRACTICE

SoP

CERTIFICATION SCHEME



SER SOCIETY FOR ECOLOGICAL RESTORATION

INTERNATIONAL PRINCIPLES AND STANDARDS FOR THE PRACTICE OF ECOLOGICAL RESTORATION
SECOND EDITION: November 2019

George D. Gann, Tein McDonald, Bernhanie Walder, James Aronson, Cara R. Nelson, Justin Jonson, James G. Hallett, Cristina Eisenberg, Manuel R. Guariguata, Junguo Liu, Fangyuan Hue, Cristian Echeverría, Emily Gonzales, Nancy Shaw, Kris Decker, and Kingsley W. Dixon



SER SOCIETY FOR ECOLOGICAL RESTORATION

INTERNATIONAL PRINCIPLES AND STANDARDS FOR THE CERTIFICATION OF ECOLOGICAL RESTORATION AND RECOVERY OF MINE SITES

CONCEPTS SUMMARY



Workshop Description

September 9th, 2022. Session WS, 11:45 to 13:15.
13th SERE European Conference of Ecological Restoration

This workshop will offer a focused participatory session to develop and discuss the Standards for the Certification of Forest Ecosystem Restoration Projects, which is currently being developed by the WWF-SER Standards for the Certification of Forest Ecosystem Restoration Projects. This session will be targeted to those who are currently working on the development of the standards, and who are interested in the process of developing and implementing the standards.

The workshop's objectives are to:

- Review the current status of the standards and the progress made so far.
- Discuss the challenges and opportunities associated with the development of the standards.
- Identify the key stakeholders and their roles in the development of the standards.
- Develop a plan of action for the development of the standards.

After the introductory presentation, the technical committee will begin with a discussion on the current status of the standards and the progress made so far. This will be followed by a discussion on the challenges and opportunities associated with the development of the standards. The technical team will then develop a plan of action for the development of the standards.

Access to the current version of the WWF-SER Standards for the Certification of Forest Ecosystem Restoration Projects

Would you like to get in touch with the team? Feel free to email us your feedback, further comments, or your questions to: natalia.casade@casadeconsulting.es

SER 13th SERE CONFERENCE SEP 2022 ALCANTAR, SPAIN

WWF-SER Standards for the Certification of Forest Ecosystem Restoration Projects

A resource leaflet with a summary of the workshop and an opportunity to offer feedback to the project technical team

ADOPTION OF STANDARDS AND CERTIFICATION SCHEMES FOR THE PRACTICE OF ECOLOGICAL RESTORATION IS ESSENTIAL TO RESPOND TO ENVIRONMENTAL CHALLENGES AND GUARANTEE THE QUALITY OF THE ACTIONS AT MULTIPLE SCALES



SOCIETY FOR ECOLOGICAL RESTORATION



Food and Agriculture Organization of the United Nations



UNITED NATIONS DECADE ON ECOSYSTEM RESTORATION 2021-2030

Global Forum on Standards of Practice for Ecosystem Restoration

<https://www.fao.org/in-action/forest-landscape-restoration-mechanism/news-and-events/news-detail/en/c/1607887/>

Overarching Goal: To develop standards of practice (SoPs) to provide guidance on the application of the UN Decade Principles on Ecosystem Restoration to the planning, implementation, monitoring, and maintenance of ecosystem restoration projects.

EVENTS AND ACTIVITIES



14th SERE Conference
25-30 August 2024
Tartu, Estonia

TARTU
2024



POLICY DESIGN, IMPLEMENTATION, EVALUATION

Readers respond

Correspondence

EU Nature Restoration Law needs ambitious and binding targets

Initiatives by the European Commission to restore the continent's degraded nature (J. Cortina-Segura, Nature 535, 7 November 2022) proved disappointing. The United Nations Ecosystem Restoration Initiative is

Considering that:

- Humanity faces a 'code red' for the climate and the environment; the challenges of biodiversity loss and climate change are interrelated;
- The challenges of biodiversity loss and climate change protection and restoration efforts of natural resources are curbing pressures across ecosystems²;
- The economic benefits of conserving and restoring nature far outweigh the costs of intensive human use of a protected area network covering 18% of its land area. Although Europe has one of the strongest nature protection networks in the world, its biodiversity and ecosystems are continuing to decline³ and, therefore, significant additional actions are urgently required;
- Europe has the capacity to lead the world by example in achieving [Ecosystem Restoration](#) a success, contributing to the United Nations Sustainable Development Goals and re-connecting people with nature;
- The European Commission (EC) is working on a new law, and considering the European political leaders and policymakers to take into account the highest level of recovery possible where appropriate and complements existing legal principles in EU law such as the prevention principle⁴ and the precautionary principle⁵.

We urge, the European Commission (EC) is working on a new law, and considering the European political leaders and policymakers to take into account the highest level of recovery possible where appropriate and complements existing legal principles in EU law such as the prevention principle⁴ and the precautionary principle⁵.

1. **Establish a legal principle on ecological restoration in the new EU law.** The 'ecological restoration principle'⁶ aims at achieving the highest level of recovery possible where appropriate and complements existing legal principles in EU law such as the prevention principle⁴ and the precautionary principle⁵.

SCIENTISTS' AMBITIOUS EU NATURE RESTORATION LAW

This declaration was presented and approved during the [12th European Conference on Ecological Restoration](#) organised by the [European Chapter of the Society for Ecological Restoration](#).



12th SERE CONFERENCE
7th - 10th SEP 2022
online

DECLARATION ON THE EUROPEAN COMMISSION PROPOSAL FOR A REGULATION ON NATURE RESTORATION

This declaration was presented and approved during the [13th European Conference on Ecological Restoration](#) organised by the [European Chapter of the Society for Ecological Restoration](#), Alicante, 9 September 2022



13th SERE CONFERENCE
5th - 9th SEP 2022
ALICANTE, SPAIN



Universitat d'Alacant
Universidad de Alicante

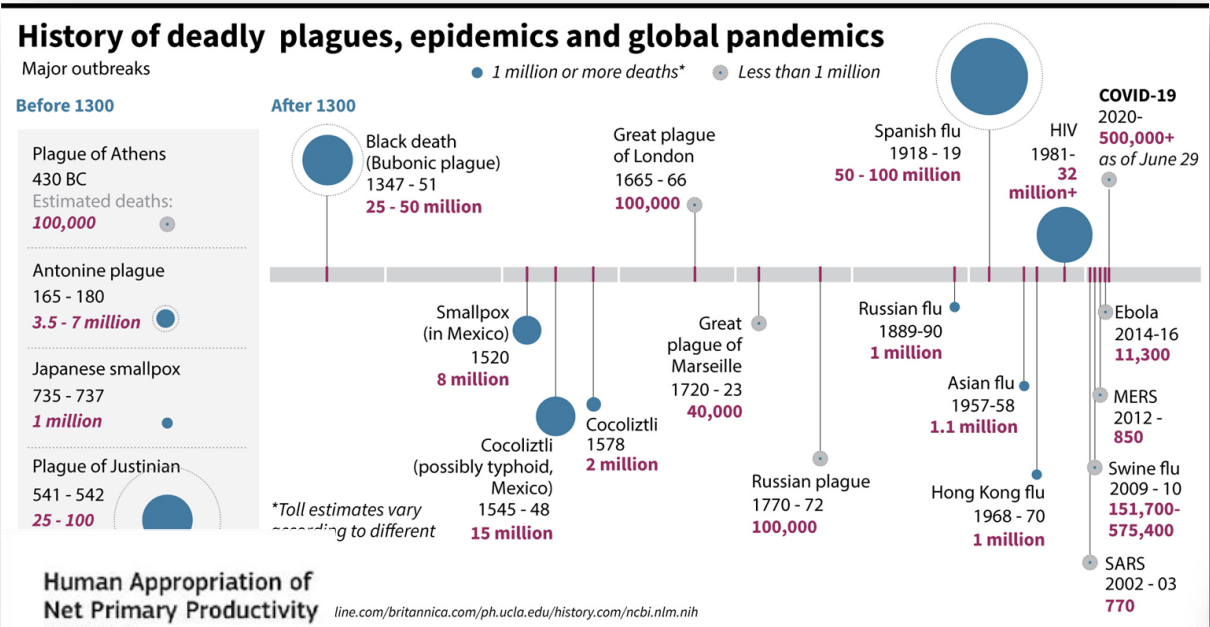
SERE2022 Declaration on the European Commission Proposal for a Regulation on Nature Restoration



51 organizations, 12 networks support the Declaration 2022

<https://chapter.ser.org/europe/declaration-on-eu-nature-restoration-law-2022/>

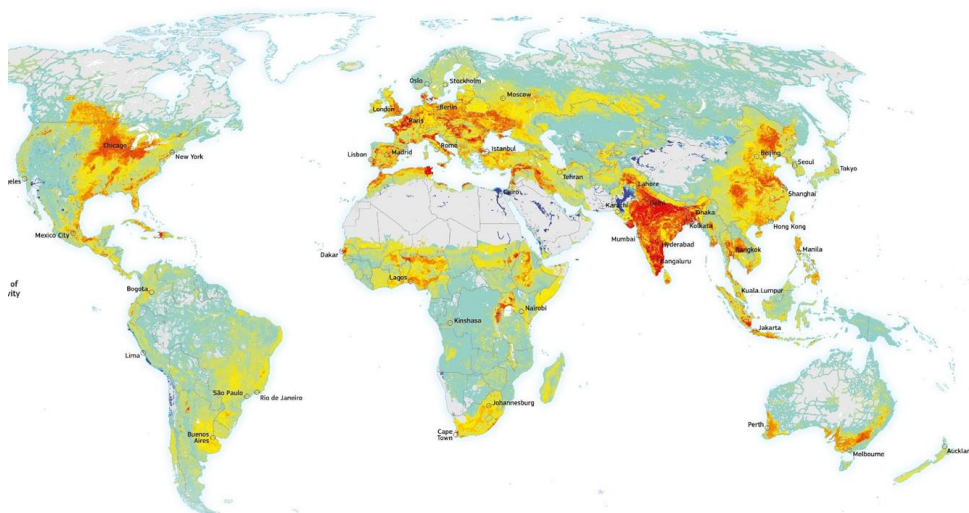
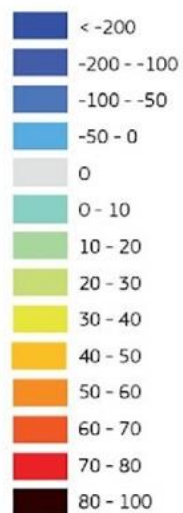
EXTENT OF ANTHROPOSPHERE DEGRADATION



Human Appropriation of Net Primary Productivity (HANPP)

(% of NPP₀)

[line.com/britannica.com/ph.ucla.edu/history.com/ncbi.nlm.nih](https://www.britannica.com/ph.ucla.edu/history.com/ncbi.nlm.nih)



GLOBAL ENVIRONMENTAL CRISIS

- CLIMATE
- BIODIVERSITY
- DESERTIFICATION

HUMAN HEALTH,
DISASTER RISK
REDUCTION, HUMAN
WELLBEING

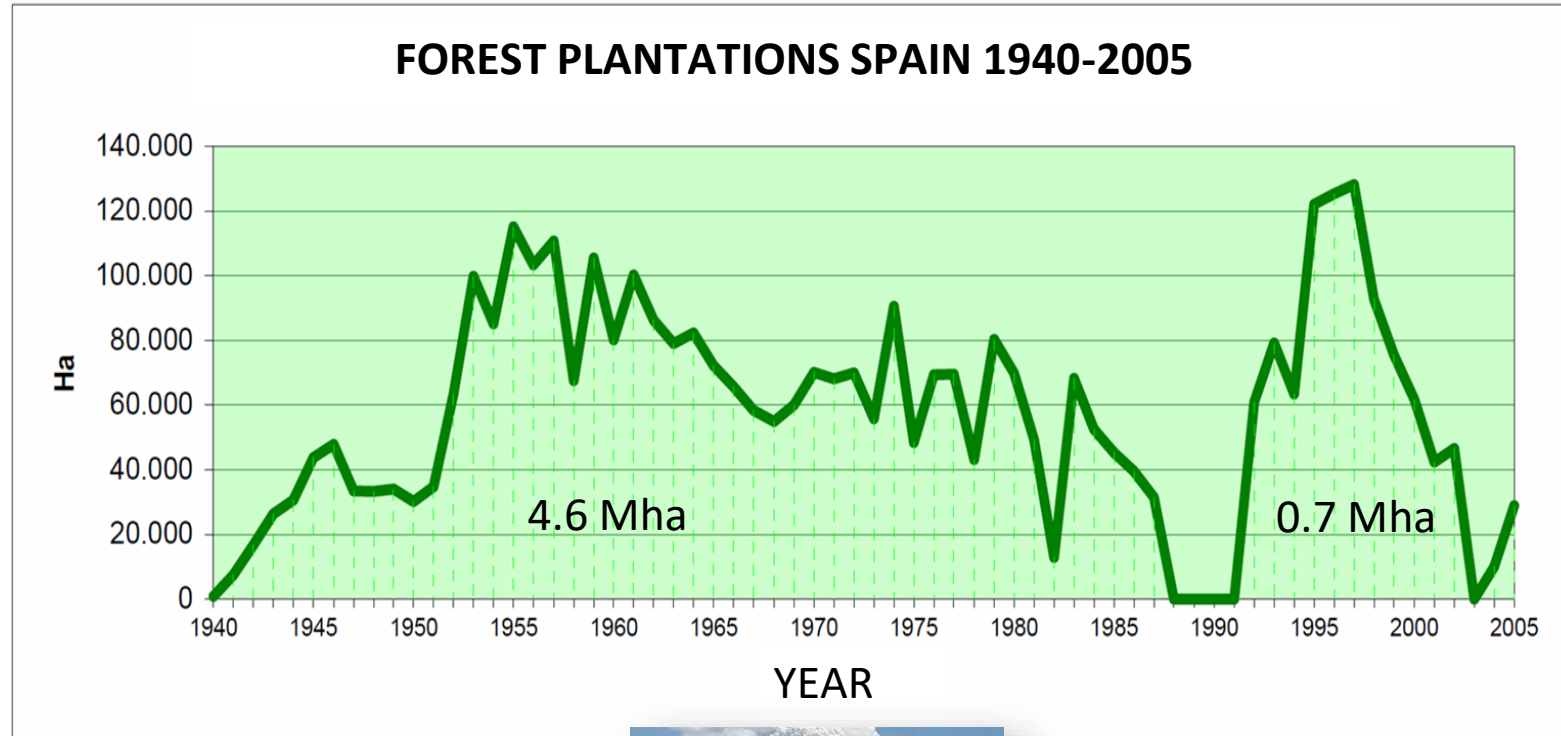
CURRENT EFFORTS UNCERTAIN, INSUFFICIENT



RESTORATION AT CURRENT
RATES WOULD COVER
2%, 4%, 6%
OF DEGRADED ANNEX I
HABITATS IN 2030, 2040,
2050

EFTEC et al., (2017) Technical support in relation to the promotion of ecosystem restoration in the context of the EU Biodiversity Strategy to 2020. Available at:
https://ec.europa.eu/environment/nature/pdf/promotion_of_ecosystem_restoration_in_the_context_of_the_EU_biodiversity_strategy_report%20.zip

ER NOT COORDINATED WITH EU POLICIES



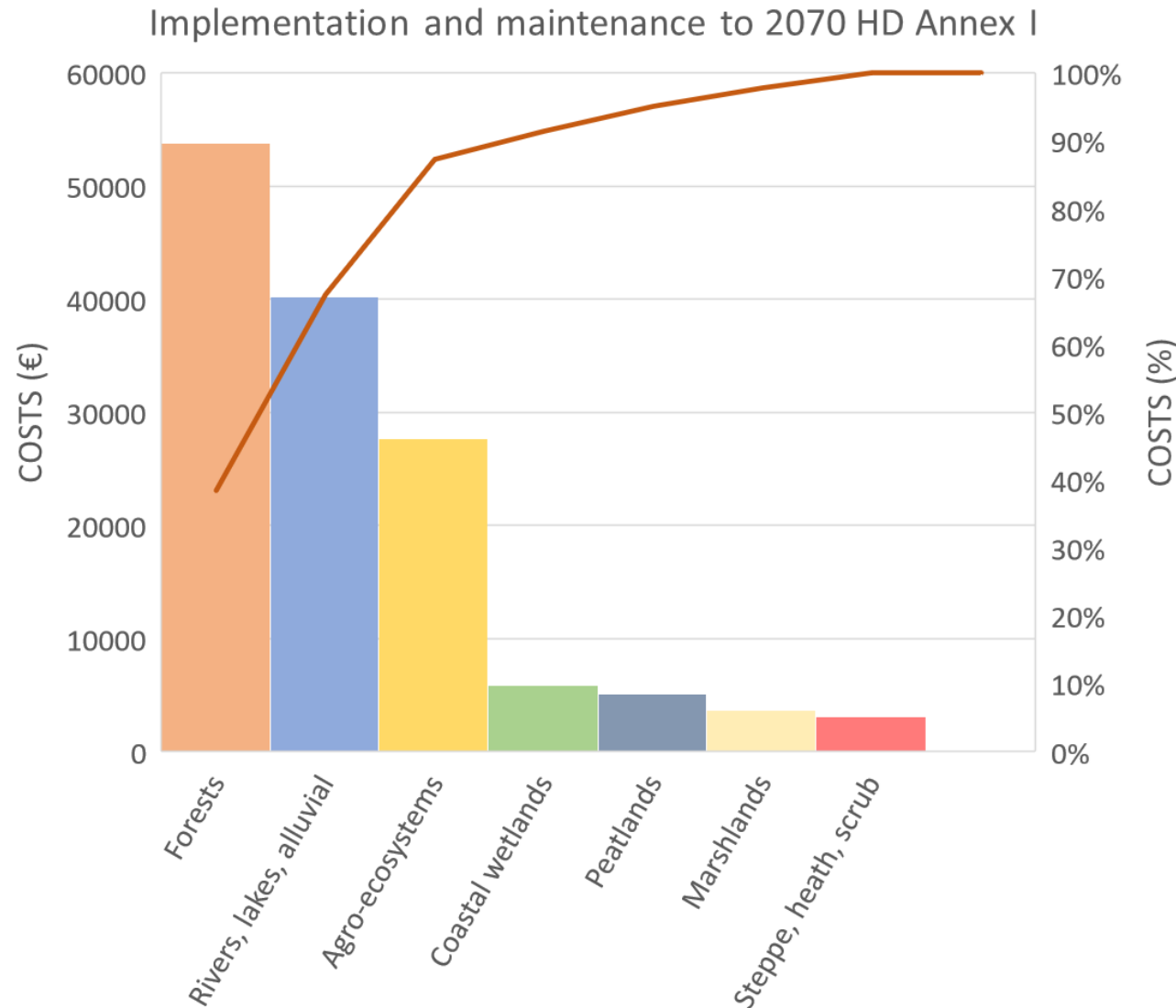
MMA (2005). Anuario de Estadística Forestal

SECONDARY FORESTS
LINKED TO

- MASSIVE DIEBACK
- WILDFIRES

SUSTAINABILITY OF
CAP FOREST?

BECAUSE ER IS AN INVESTMENT



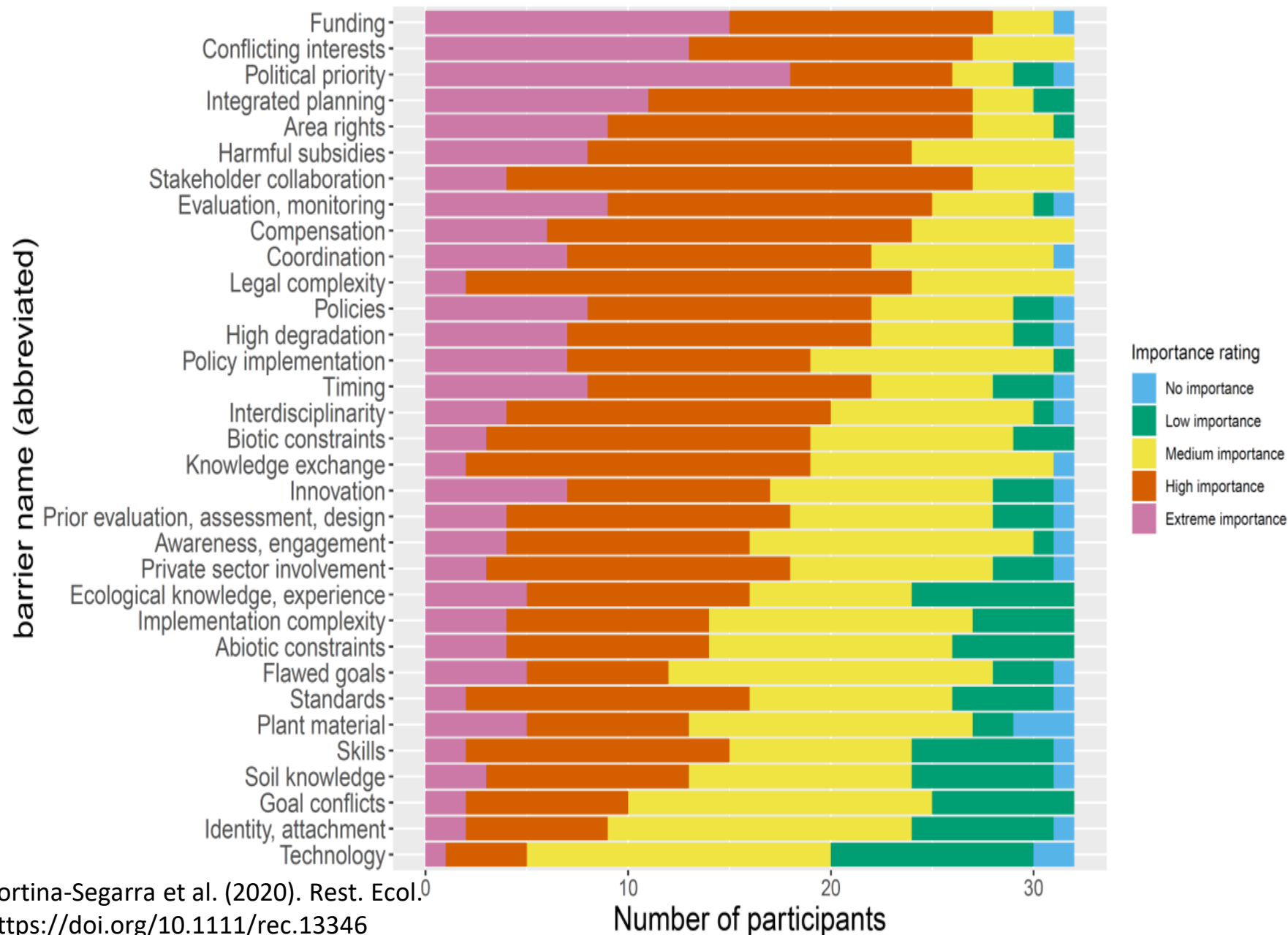
RESTORATION AND MAINTENANCE COSTS

140 B€ UNDER SCENARIO OF 30-60-100% TARGETS FOR 2030-2040-2050 FOR HD ANNEX I

COSTS MARINE AND URBAN ECOSYSTEMS+POLLINATORS NOT INCLUDED

ESTIMATED **14 B€ ANNUAL BIODIVERSITY SPENDING UNDER THE MFF (2021-2027)** COULD COVER ANNUAL TOTAL COSTS OF RESTORATION OF 6-8 B€

BARRIERS FOR ER IN EUROPE

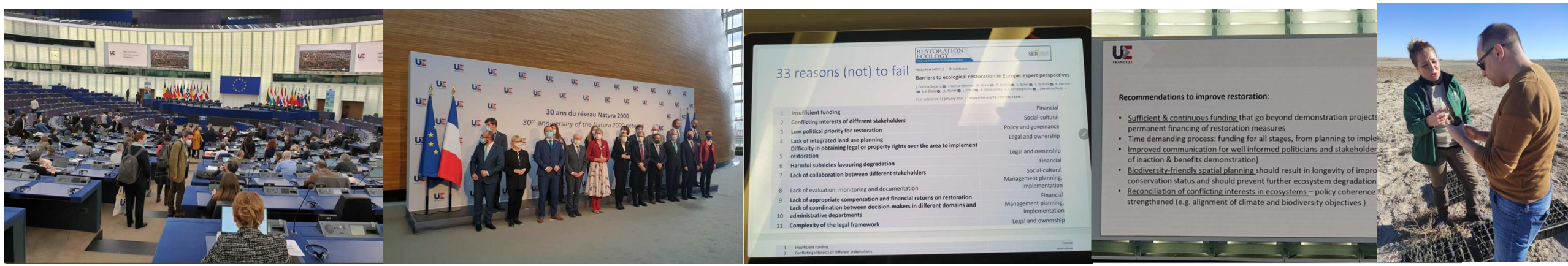


MAST BARRIERS RELATED TO
SOCIAL ASPECTS, POLITICAL
COMMITMENT, FUNDING

ONLY THE 12TH REFERS TO
ECOLOGICAL FACTORS

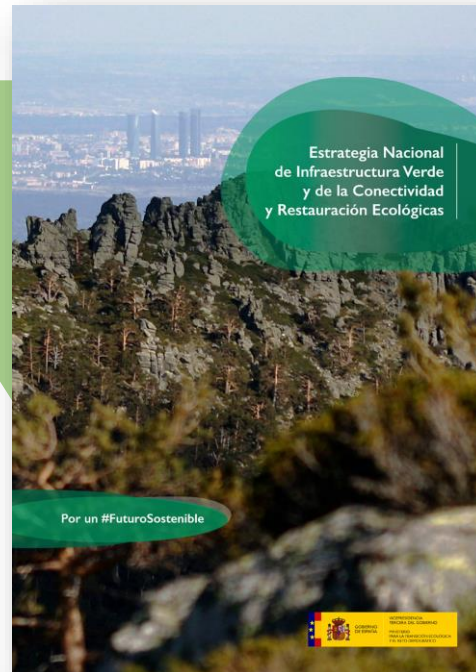
SERE IN SUPPORT OF AN AMBITIOUS EUROPEAN NRL

- Scientific and technical support to the legislative process.
- Support to the **European Parliament** and **national contact points**.
- Monitoring the process through the **EU Biodiversity Platform** (DG ENV) and **seminars of Nature Directors** European Presidency (Strasbourg, 24.2.22; Prague, 30.9.22).
- **Awareness** raising and **Training** for practitioners (e.g., Erasmus+ TRAIN#ER).
- Developing **standards** of practice and certification schemes.
- **2023 SER Partnership Fund Project** “SERE4NRL: Advocacy for the European Union Nature Restoration Law – A model for Global Restoration Policy”.



SUPPORT TO NATIONAL RESTORATION PLANS

NATIONAL STRATEGY GREEN INFRASTRUCTURE, CONNECTIVITY AND ER



GUIDELINES AND CRITERIA FOR ER IN SPAIN



#500EERs

Restoring Europe.
Better together.



© OBN, Netherlands

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R2D – *Responses to Desertification* (CIPROM/2021/001)

Mediterranean Forest Restoration Certification Pilot
Foundation Audemars Watkins



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