

"Ecosystem restauration, citizen involvement & innovative monitoring"

> NRC Forest Seminar June 17, 2021 Sven Kallen - Life Terra foundation

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Climate action for citizens

- Life Terra is a foundation that leads a consortium of 16 organisations of 8 countries
- Our mission is to restore our connection with the earth and to enable people to take impactful climate action now
- We facilitate tree planting, educate future generations, and develop tree monitoring technology
- Landowners get trees planted for free in exchange of maintenance & 40-year commitment

Our goals for 2025

We are ambitious because we know that the world needs massive #climateactionnow





3.536.423 Tons CO2 captured



1.350.000

Citizens participating

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14.000 Classrooms participating



16 partners, 8 countries budget: €12.8 mln EU contribution: €7.04 mln (55%)

4 working groups:

Technology, Implementation, Education, Communication







Events











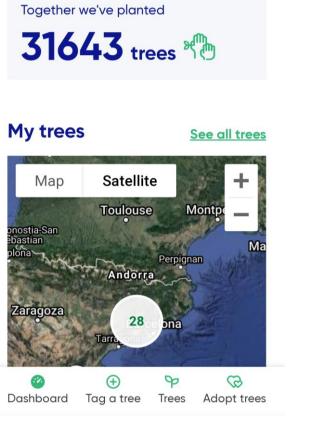
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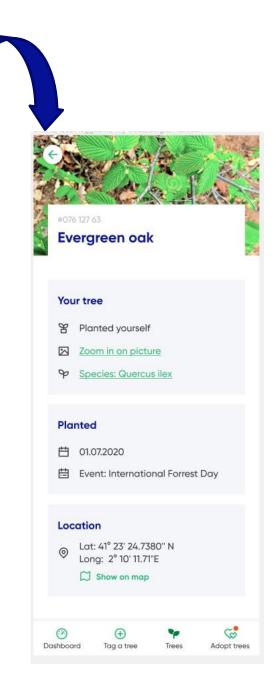


My overview



70 trees 🕸

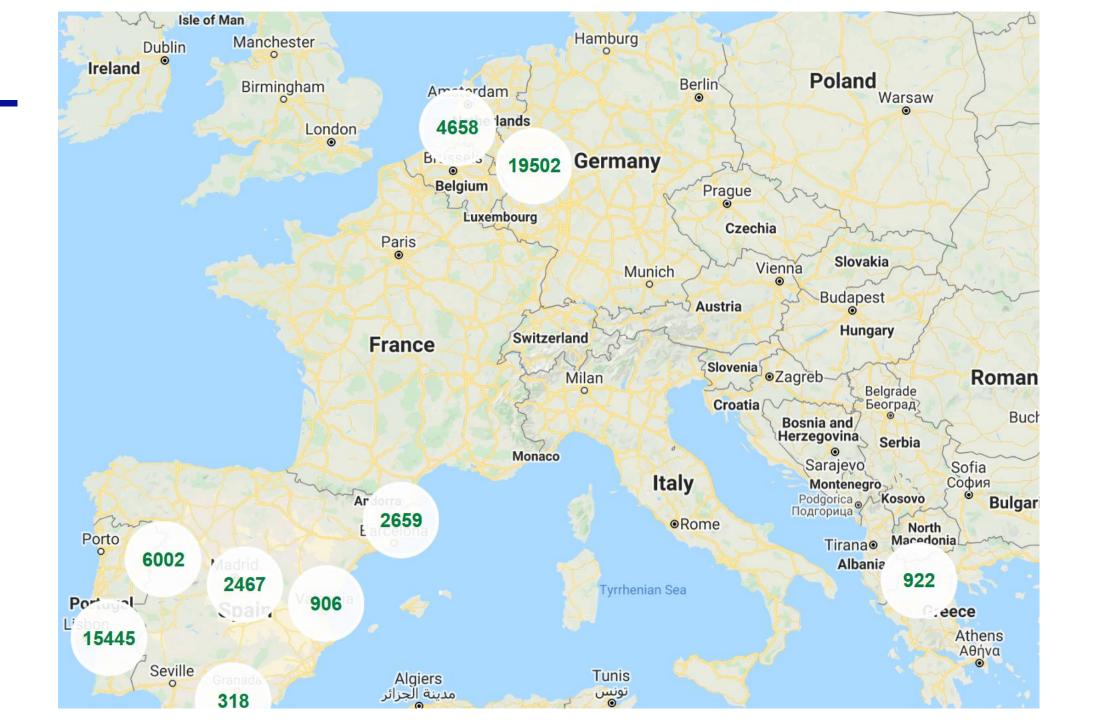














Results first season (2020-2021)

Main KPIs

- 135.000+ trees (goal: 100.000)
- **70+** events (goal: 50)
- 8 countries (goal: 6)
- 50+ Terra Leaders trained (goal: 20)



Highlight: Klimawald Germany (Engelskirchen)



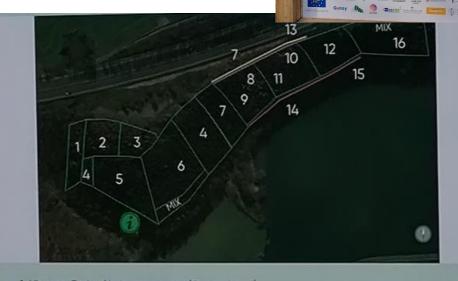
Highlight: Klimawald Germany





Main characteristics

- Reality: bark beetle, precipitation down 20-30%
- Objective: testing "climate proof" species
- 19.000 trees in approx. 5 ha
- 16 species
- **Provenance: Spain**
- Species pre-selected by UB, Wageningen Univ, local nursery and owner
- Agreed with regional forest authority
- Closely monitored area for performance
- Citizen participating (planting & maintenance)



1. Libanon-Zeder / Lebanese cedar (Cedrus libani) 2. Stein-Eiche / evergreen, holly or holm oak (Quercus Ilex) 3. Esskastanie oder Edelkastanie / Spanish or sweet chestnut (Castanea sativa) 4. Sicheltanne oder Japanische Zeder / Japanese cedar or Japanese redwood (Cryptomeria (aponica) 5. Atlas-Zeder / atlas cedar (Cedrus atlantica) 6. Küstenmammutbaum / coastal or California redwood (Sequoia sempervirens) 7. Riesenmammutbaum oder Wellingtonia / giant redwood or Wellingtonia (Sequoiadendron giganteum) 8. Winter- oder Stein-Linde / small-leaved lime or linden (Tilia cordata) 9. Pyrenäen-Elche / Pyrenean oak (Quercus pirenaica) 10. Hainbuche / European or common hornbeam (Carpinus betulus) 11. Stiel-Eiche [Sommereiche, Deutsche Eiche] / pedunculate, European or English oak (Quercus robur 12. Rot-Eiche oder Amerikanische Spitzeiche / northern red oak (Quercus rubra) 13. Feldahorn / field maple (Acer campestris) 14. Rosskastanie / horse chestnut (Aesculus hippocastanum)

- 15. Haselnussstrauch oder Gemeine Hasel / common hazel (Corylus aveiland) 16. Hänge-Birke / silver birch (Betula pendula)

Challenges

- Ecosystem approach
- Mixed forests (8+ different species)
- The right tree in the right place (cooperation with Restor/Crowther)
- Assisted migration (same or even new species)
- Introduction of closely monitored "climate forests"
- Afforestation vs Reforestation
- Quality of plantings (citizens vs professional planters)





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Contact: sven@lifeterra.eu



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