



TERRA
Farmers

ACCELERATE LARGE SCALE NATURE RESTORATION

APA - Sessão Regional de Informação & Workshop
3 Junho 2025

CHALLENGE

Last Century we have destroyed 1.5 bn hectares of Nature's Infrastructure.

Ecosystem Services,
Climate Self-Regulation & Buffer
for Extreme Events



“\$150 bn per year Natural Disasters Globally”

“Projected costs of inaction could reach 7% of EU GDP.”



Problem – Traditional Methods

**HARD, DANGEROUS
& SLOW**

**HARSH ENVIRONMENTAL
CONDITIONS**

**RISKS
MITIGATION**

Lack of Labour
Heavy-Duty Machinery
High Costs

Degraded Soil
Decreased Water Retention
Lack of Biodiversity

Growth Monitoring
Pests & Diseases
Wildfires

Low Reforestation Success Rates
Mediterranean

Precision Reforestation Drone & Seedpods



Planned Fleet 10 Drones & Team of 10
Precision Sowing 200.000 Trees per Day



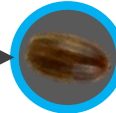
>200 Tree Planters



Remote & Inaccessible Areas



Pre-Planned Geolocation



Healthier Root System & Growth



MVP – 4.500 Trees per Day

25x
Faster

50%
Cheaper

80%
Lower Emissions

PRECISION DRONE REFORESTATION



TREEGER™

AI Assisted Seeding



Survival Rates & Micro Ecosystems

Reforestation in the Mediterranean region presents **unique challenges due to its distinct climatic conditions**, characterized by hot, dry summers and mild, wet winters.

MULCHING

+ 23% Survival Rate

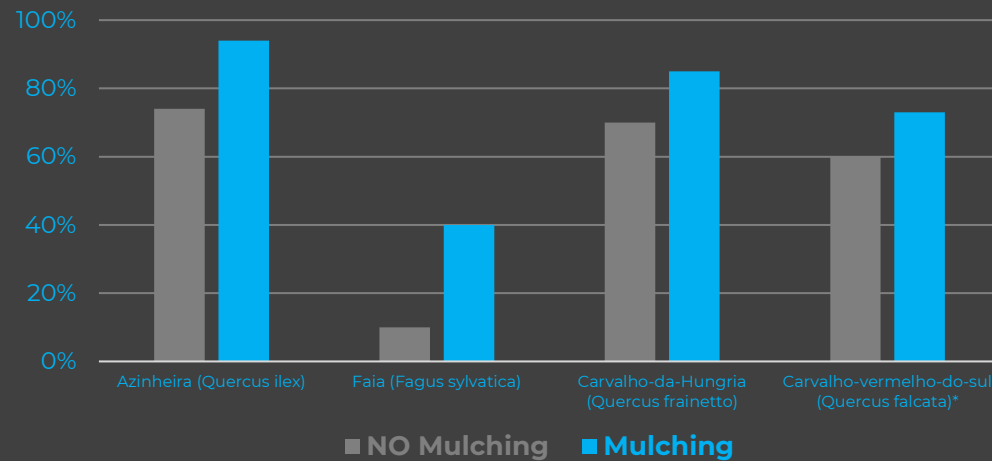
100 ha Project = €30k Saved



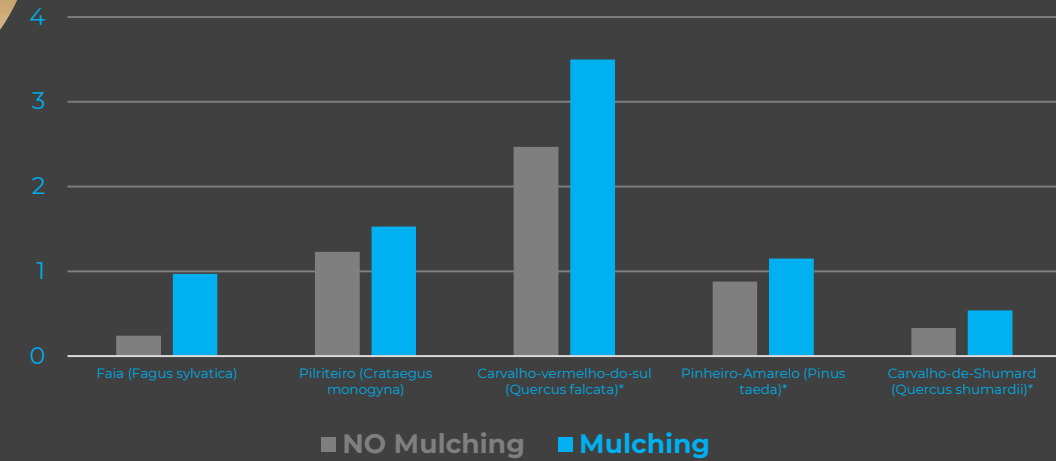
+ 25% Tree Growth

+150k Additional Revenue (15yr)

SURVIVAL RATE



TREE HEIGHT



Postfire Mulching

POSTWILDFIRE EMERGENCY SOIL STABILIZATION

- -85% reduction soil erosion
- -50% water runoff and flash floods
- +30% increase in natural regeneration

<https://www.und.edu/best-practice/mulching-after-forest-fires>

“Martin (USGS) called the rise in erosion part of an “unvirtuous cycle” of more fires, more eroded soil, which leads to more infrastructure failures and, ultimately, less water.”

Source: Los Angeles Times - Aug. 31, 2024

No (Cost-Efficient) Competition



Drone Mulching



AI Generated Images

Swarm Fleet of 10 Drones can Deliver >20 ton/day

Combining cutting-edge **drone mulching with drone precision reforestation we created a game-changing approach.**

LIFE - TERRAFARMERS



LIFE-TERRAFARMERS: Enhancing Post-Fire Recovery and Climate Resilient Ecosystems Through AI-Powered Aerial Seeding for Holistic Afforestation and Habitat Restoration.

Summary:

4 Years

TerraFarmers Budget - €1.3 Mn

5 Pilot Projects – 200 ha

FLEET of 6 Drones
Post Wildfire Restoration:
Woodchip Mulching
Living Mulch
Reforestation

Consortium:



Associated Partners:



Pilot Project 1: 60ha
Leiria,
Portugal



Pilot Project 2: 30ha
Coimbra,
Portugal



Pilot Project 3: 50ha
Madeira Island,
Portugal



Pilot Project 4: 30ha
Castilla La Mancha,
Spain



Pilot Project 5: 30ha
Aquitaine,
France



The Team



Ivo Pimentel
Co-Founder & CEO



Dario Ramos
Co-Founder + COO



Teresa Fidalgo PhD
Co-Founder + CSO



Shuja Khan
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Nehal Sarangkar
Lead Application
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We are TERRAFARMERS

Regenerating Nature & Empowering
Communities

Combining science and engineering we
develop the most effective technologies
and solutions to regenerate ecosystems
and habitats.

**DISRUPTING AGRICULTURE & NATURE
RESTORATION**



DO YOU WANT TO PLANT THE FUTURE WITH US?

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