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Investor Pitch Deck

ACCELERATE LARGE SCALE NATURE RESTORATION

January 2025

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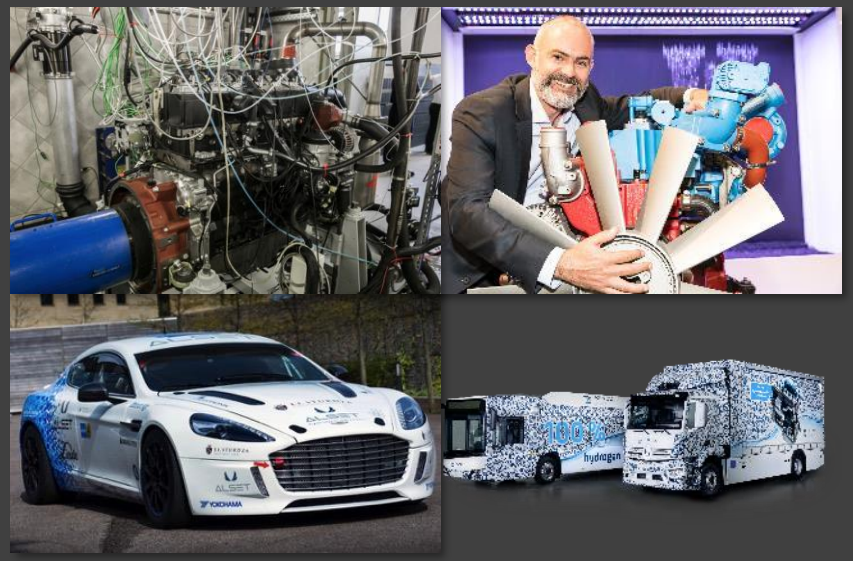
SOLID FOUNDING TEAM

CLEANTECH STARTUP & ZERO EMISSION MOBILITY



(Ex) Co-Founder - Keyou GmbH - https://vimeo.com/338007256
KEYOU presentation Nordhausen https://youtu.be/ZOP6EA9y8ZQ
KEYOU TV report https://youtu.be/0GnHIMPKKx4

Keyou GmbH secures growth financing in a 7 digit amount from NAGEL Maschinen- und Werkzeugfabrik in Baden-Württemberg. Munich-based Clean Mobility Company KEYOU closes a 5.8 Million Euro investment from the European Innovation Council Fund.

+

FOREST ENGINEERING & DATA SCIENCE

Professor - UTAD

Associate Professor with Habilitation, holds a Ph.D. in Forestry Sciences. She specializes in forest management, biometrics, and forest resource modelling. Her work and research spans forest inventory, silviculture, and adaptive management. She teaches four courses at UTAD while supervising post-doc, PhD, and Master's students.

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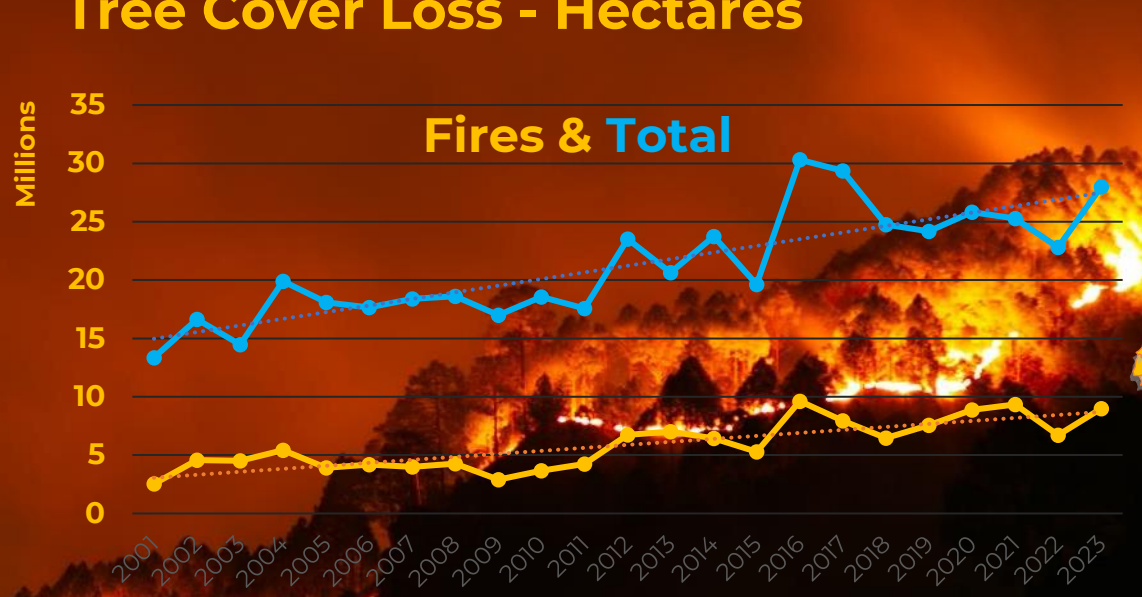
CHALLENGE

2 B HECTARES REQUIRE URGENT RESTORATION.

Climate Change

"Snowballing" EXTREME EVENTS



https://www.wri.org/insights/global-trends-forest-fires
https://www.globalforestwatch.org/dashboards/global/

Biodiversity Collapse | Threaten Food Security
Soil Erosion & Desertification

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OPPORTUNITY & PROBLEM

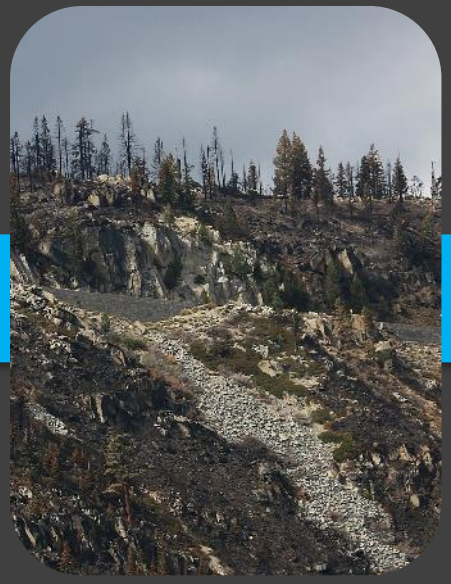
Voluntary Carbon Market Will Impact

500.000 hectares of Forest in Portugal

DEGRADED LAND

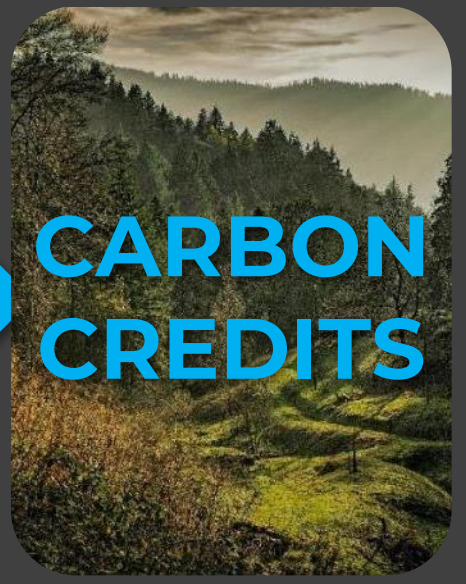
- 85% Soil Erosion – 50 ton/ha
- Nutrients Loss: - 100 kg/ha

REMOTE AREAS



- Inaccessible Terrain
- Dangerous and Risky

CONSERVATION FOREST



- Ecosystems Services
- Biodiversity

€1.5bn Market Size

Source: jornaldenegocios.pt

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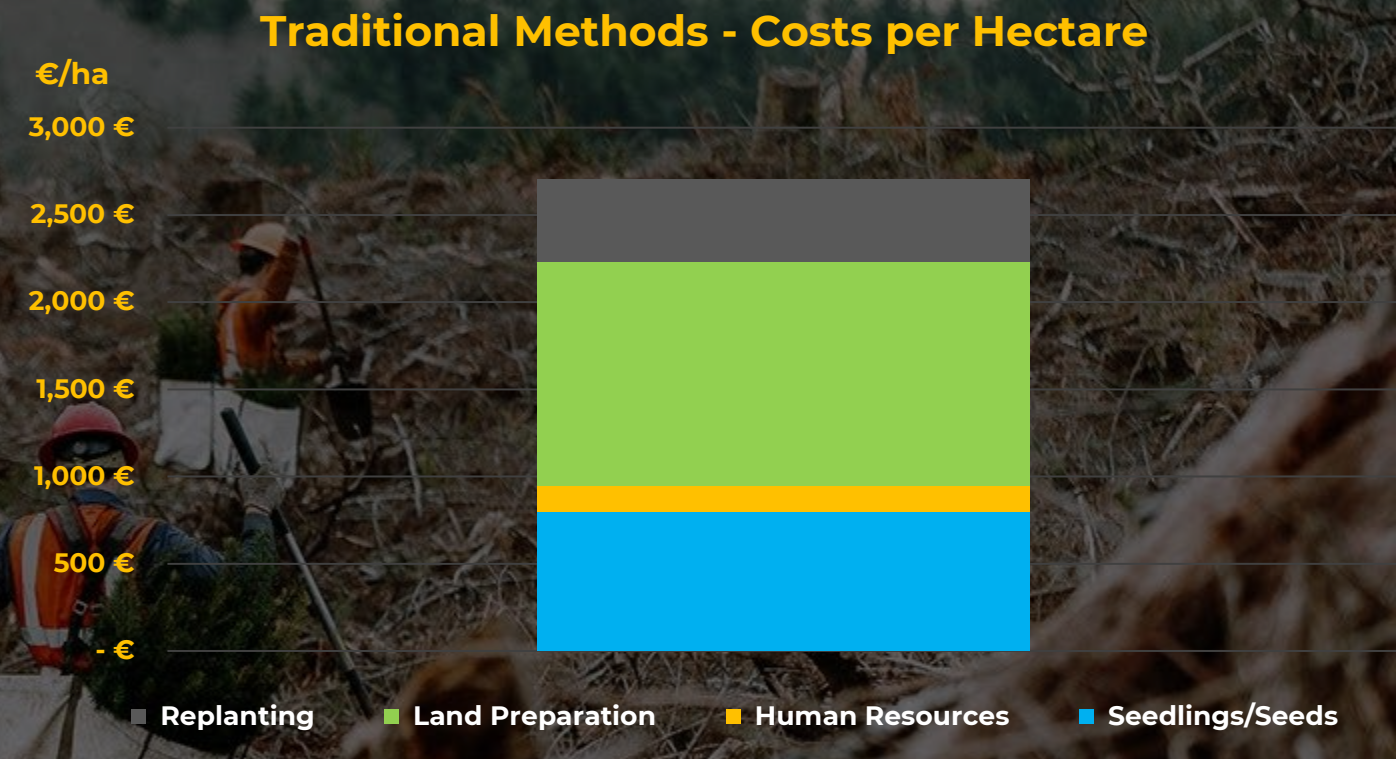
TRADITIONAL METHODS

Shortage of Labour, Slow & Expensive



Low Reforestation Survival Rates Mediterranean

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TECHNOLOGY – PRECISION DRONE REFORESTATION

TREEGER™

AI Assisted Seeding

- 10,000 Seedpods per Day
- Substitute 10 Tree Planters
- Remote & Inaccessible Areas
- Pre-Planned Geolocation

25X Faster

60% Cheaper

TERRAFARMERS PROMO VIDEO

SEEDPODS

- Water Storage
- Slow-Release Nutrition
- Microbial & Fungi
- Companion Species
- Animal Repellent

Better Root System & Healthier Growth

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GRANULATED SEED SPREADING

BIOTECH MIX SPREADING

+ 23% Biodiversity

Vegetation, Fauna & Pollinators

+ Soil Organic Matter

Moisture, Health & Nutrients

+ Water Services

Water Retention, Storage & Purification

Soil Restoration & Improved Germination

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MULCHING – ENHANCED CARBON SEQUESTRATION

COSTS SAVINGS & INCREASED REVENUE

+ 23% Survival Rate

100 ha Project = +€30k Saved

+ 25% Tree Growth

+150k Additional Revenue (15yr)

- Reduce Invasive Species

Additional Costs

- No (Cost-Efficient) **Competition**

BOOST SEEDLINGS GROWTH

- +25% increased tree height in year 2
- +20% diameter in year 3
- +8.5% crown width in year 4

RESTORATION OF DRY/DESERT AREAS

- Soil building
- Protect seedling
- Trap moisture and nutrients

POSTWILDFIRE EMERGENCY SOIL STABILIZATION

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

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PILOT PROJECTS

MOTA-ENGIL ATIV
Mix Spreading & Aerial Reforestation

- 8 species +1500 trees
- Spreading 25 kg of seeds, 20 species of herbaceous plants

Source:
https://www.youtube.com/watch?v=haeMhXS-eto
https://www.ativ.pt/2024/06/04/sementeira-aerea-e-plantacao-de-arvores-com-drone/

CM NELAS
Mix Spreading - Post Wildfire Restoration

CM LEIRIA - PINHAL LEIRIA
Mix Spreading & Aerial Reforestation

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TRACTION

LOI Signed – Sylvestris Metsa (Repsol Foundation & Motor Verde)
- Project 200 ha
- €30 Mn Investment in Reforesting 10.000 ha - next 4 years

LOI Signed – Aflobei – Associação Florestal
- Project 15 ha
- 100 ha Carbon Project
- Commercial Partnership – Promote Terrafarmers Services - 170.000 ha

DEMONSTRATION – Biond, Altri & Navigator
- Operational Capacity
- 250 ha Pilot Project
- 10.000 ha per year

Prospective Sales Pipeline 2025: €1 - €2.5Mn

AWARDS

Link

Link

Link

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

Consorcium:

Summary:

4 Years
Terrafarmers - €2.0 Mn Budget
5 Pilot Projects – 200 ha

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

Associated Patrtners:

Source: www.dgterritorio.gov.pt/paisagem/ptp/oigp/consulta-publica-OIGP

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Incêndios Florestais – Uma Nova Abordagem

HEPHAESNUS

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MoU

As partes comprometem-se a colaborar ativamente no desenvolvimento de uma **solução de combate a incêndios florestais utilizando drones, unindo os conhecimentos específicos da Terrafarmers no domínio dos drones e automação, e os conhecimentos específicos da Hephaesnus no domínio da Engenharia Química, cargas extintoras e cápsulas extintoras de chamas.**

Esta solução deverá ser capaz de apoiar o combate a incêndios florestais de forma eficaz, promovendo uma maior segurança das pessoas e operacionais, protegendo ativos da sua destruição em caso de incêndio e/ou limitando o rápido crescimento de um incêndio no seu estágio inicial.

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Farmers
DRONES LIKE BEES
Regenerating Nature & Rural Communities
www.terrafarmers.io
info@terrafarmers.io

TEAM

Ivo Pimentel
Co-Founder & CEO

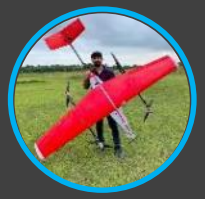
(Ex)Co-Founder KEYOU GmbH – CBDO
Hydrogen Engines HD Vehicles
'Top 100 energy start-ups of the year', Solar Impulse Efficient Solution label,

Dario Ramos
Co-Founder + COO

Keyou GmbH
OEM's engine development project manager; Responsible for testing facilities and operations

Teresa Fidalgo PhD
Co-Founder + CSO

Forest Sciences Professor - UTAD
MIT – Data Science
Coordinator at the International Union of Forest



Shuja Khan
CTO

Unmanned Systems; TM Aerosports - Chief Engineer More than 10 years experience on Unmanned VTOL, Fixed-wing, and Multirotor Aircraft.

Pedro Rocha
Business Development

Noocity – CSO
Responsible for implementing the sales strategy at the main European Markets

Drone Pilot & GIS

Agronomist

Lab Assistant
I&D

Daniela Sá
Seedball R&D

MSc, Forest Engineering
Terrafarmers Seedball & Post Wildfire R&D

Biologist
I&D

Nehal Sarangkar
Prototype Engineer

Senior Prototype Design Engineer
Rapid Prototyping (3D printing, laser cutting), Wood working, Welding, Drone flying.

Robotics & Software
I&D: Drone Systems

Marketing & Sales

LinkedIn:
Ivo Pimentel
Dario Ramos
Teresa Fidalgo Fonseca
Shuja Khan
Pedro Rocha
Joshua Gomez
Nehal Sarangkar

Investors

MOTA-ENGIL ATIV

MOTA-ENGIL ATIV

Portugal Ventures

PORTUGAL VENTURES

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