③ 修 第 1 TREELLION .org

Tali Orad, CEO Planting with People for People





NATURE AND PEOPLE COMPETE FOR RESOURCES AS OUR PLANET WARMS UP

TRESNEEDTO SURVIVE DEOPLE NEED TOTEAT

OUR MISSION STATEMENT

Revolutionizing reforestation in arid, salt-affected areas, leveraging a partnership between Itreellion and Planet

Innovative freshwater production from salt water and irrigation system

Local reforestation and water security for people and the environment. Agro forestry and reforestation efforts





Community-centered economic benefits through carbon credits and agroforestry



PEOPLE

- Job creation
- Education & engagement
- Food security

TREES

- 54,000 trees planted
- Ecological positive impact
- Carbon capture & soil regeneration
- Ecosystem restoration

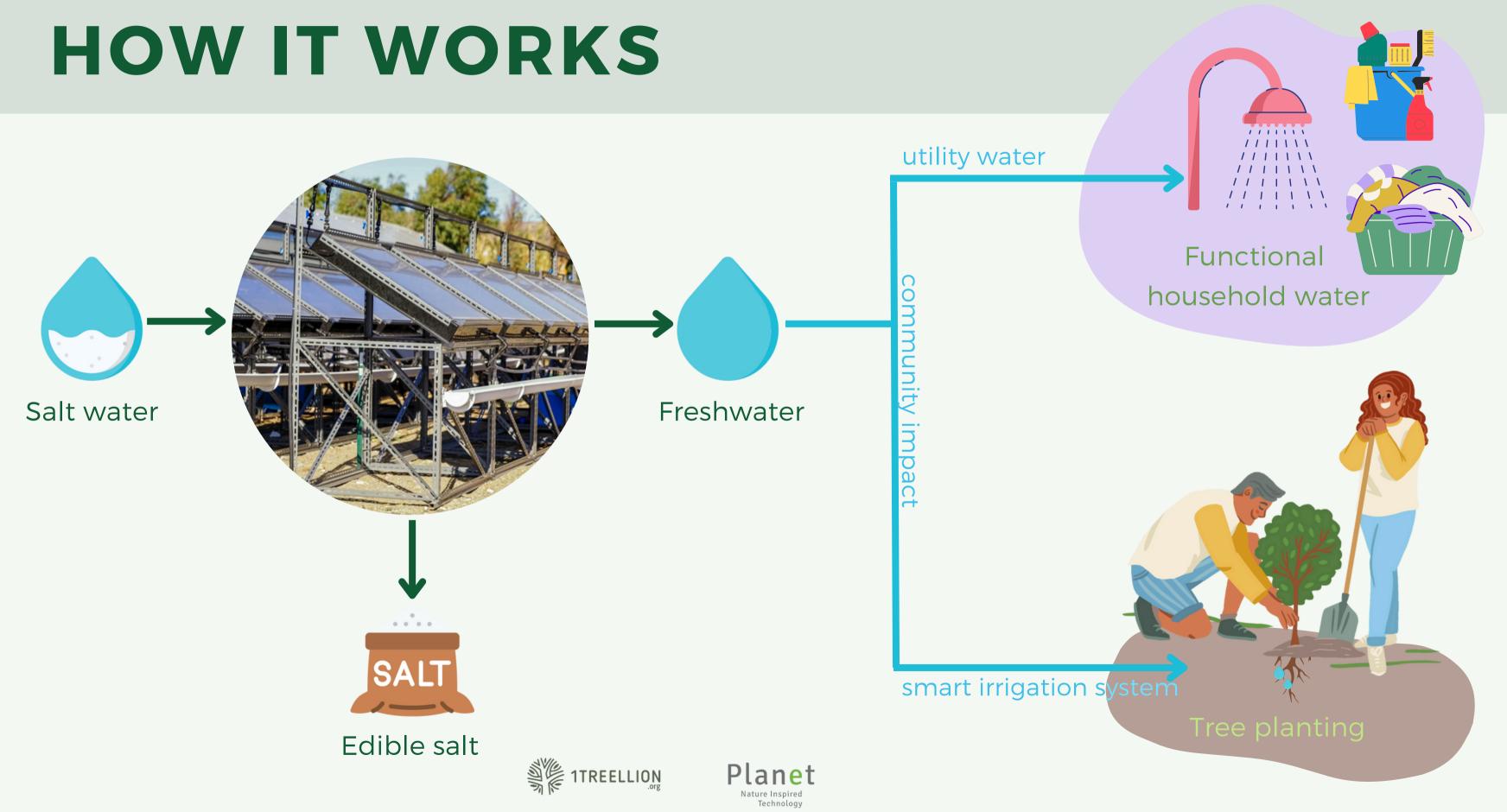






WATER

- Desalination technology
- Smart irrigation
- Optimization of water usage within the tree planting



IMPACT

For the **environment**:

- Carbon Sequestration
- Micro-Climate Regulation
- Biodiversity Enhancement
- Water Conservation
- Soil regeneration





And for **people**:

- Technological Innovations
- Sustainable Agriculture
- Carbon Credits
- Community Engagement
- Education
- Scalability
- Resilience

RISKS & MITIGATION

Risk Area	Risk Description	
Community engagement	• Lack of community engagement	
Technology installation and logistics	 Data quality and availability for tailored design. Delays in ordering and arrival of components. Technology platform running and maintenance. 	





Mitigating actions

- Preventative screening process: Matching expectations, interviews, check of track record.
- Monitoring: Progress reports, carbon credit reporting, establishing dependency.
- Use of secondary data, estimation through hypothesis, possible manual data acquisition.
- Action plan, alternative providers within the area/region.
- Training session of min. 2 people, remote assistance.

HOW WE MEASURE SUCCESS

- **Tree** growth and survival rate
- Biodiversity increases through native species planting
- Carbon capture through carbon credits emission
- **Community** engagement
- Community resiliency to climate change
- Water resource management: quality and infiltration from reforestation
- Water production indicators: freshwater production, soil improvement, and system autonomy





PILOT PROJECT 500 Trees / 2021

- Species: Brasil Blanco (Caesalpinia velutina) Madero Negro (Gliricidia sepium), Genízaro (Albizia saman), Guapinol (Hymenaea courbaril), Cedro Real (Cedrela odorata L.), Sparrowhawk (Albizia guachapale), and Mahogany (Swietenia humilis zucc.)
- Carbon sink *11 metric tons per year
- Canopy cover increased by 16%

People

- 35 people directly / 130 indirectly
- Ongoing maintenance 3 men, 2 women





* This calculation assumes an average carbon sequestration rate of 22 kg per tree per year for tropical trees







Goal - produce water for the irrigation of a local tropical fruit greenhouse and support agricultural activity during the highly touristic season.

- Operational since 2020
- Water: 75.000 L/year
- People: 3 trained locals
- Treated brine: 15.000 L/year (avoided discharge)
- Food-grade salt: 700 kg/year
- Organic tropical fruits: 500 kg/year





NICARAGUA



TANZANIA



KENYA





GREECE





TRACK RECORD



Planet demosite

Itreellion community

Joint project location

 Image: Ced Unalities
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Tali Orad Itreellion's CEO



Alessandro Villa Planet's CEO



Leonardo Ferreira Climate Change Policies



Camila Charpentier Chemical engineering



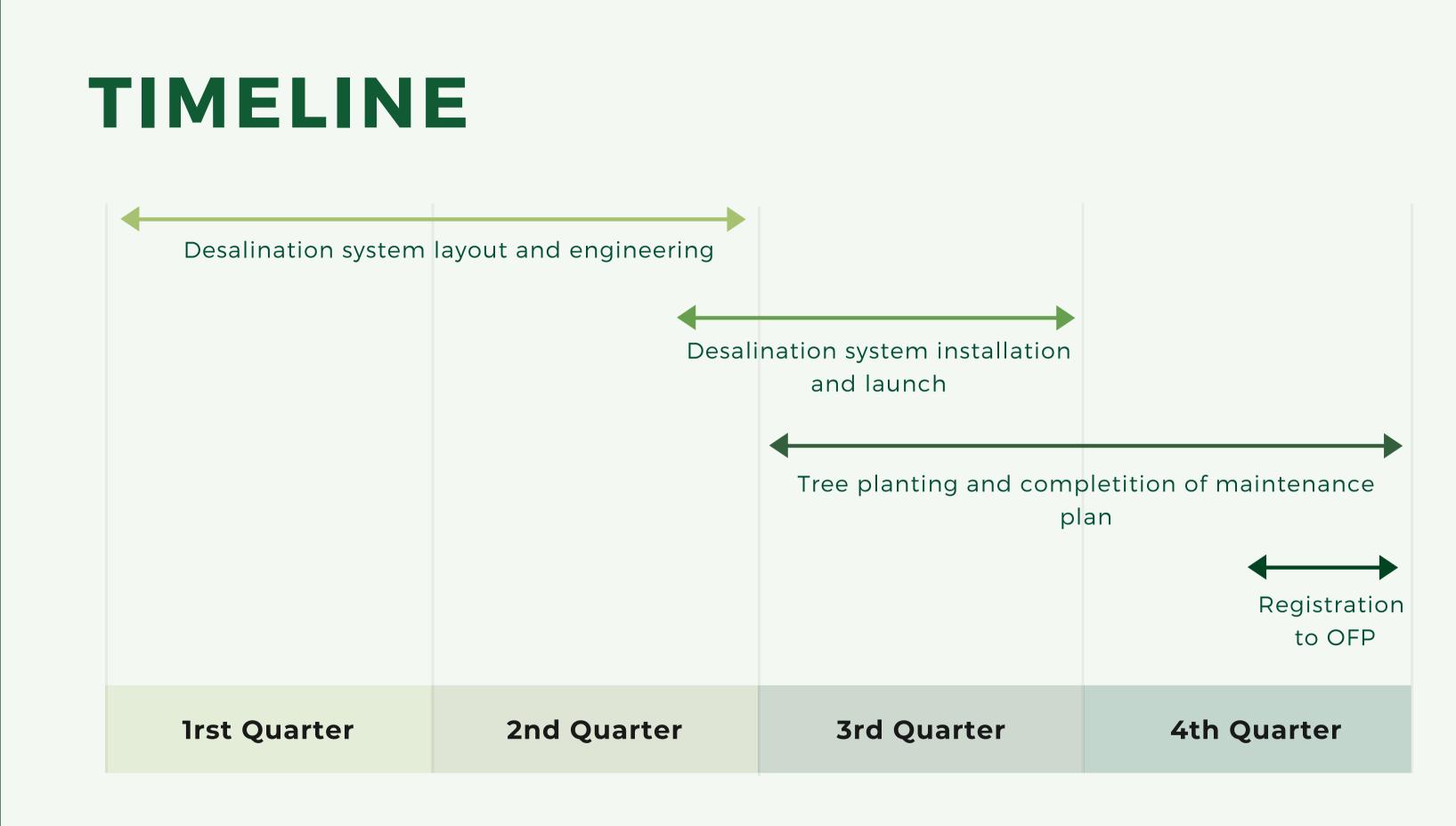




Giulia Berni Agricultural biotechnology



Alessandro Zecca Project management







BUDGET - 54,000 TREES

Activity	Responsible	Estimated budget (USD)
Desalination system (MTP) materials, construction and logistics	Planet	40,000
Travel expenses and personel costs	Planet & Itreellion	70,000
Tree planting (including nursery, equipment and saplings)	1treellion	160,000
Taxes and administration	Itreellion	30,000
Total		300,000







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Thank you



APPENDIX





THE PROCESS

VETTING ALL COMMUNITIES LEADS TO

80% tree survival rate across all projects 421% higher survival vs large-scale projects Lower average cost per survived tree as a result 60,000 people directly impacted 220,000+ indirectly impacted 12 communities 1 ecological restoration project 11 countries



that for the past 20

ENVIRONM https://docs.go 0K6YHvas0-vmrSTig2vdUgW-Ypil/e ditreforestation and approx vation. this will be archived through the planting exercise whereby at this plot phase 2,000 tree seedings planted. Trees planted in olp to replace the lost forests. Trees planted in Agroforestry sequester reforestation projects atmospheric CO, while offering subsistence farmers nutritional and income generation benefits especially to the women around the mountains. Trees planted protect the Nature Reserve from poachers, maintaining biodiversity.

EDUCATION: foster an understanding of the amenity, ecological and economic value of trees, Classroom and practical sessions on tree nursery preparation and management. Students and women at the villages plant trees in the area to maintain biodiversity. Trees are sold to maintain sustainable school tree nurseries. Agroforestry tree products help subsistence women farmers improve nutrition and income

LIVELIHOODS: Enable communities to develop (restore) sustainable and productive landscapes by tree cultivation, through free distribution of tree species suitable for agroforestry especially Tree species natives to the Mountains.

CAPACITY BUILDING: Build capacity of women in the community organizations to advocate for and implement community-based forestry and agroforestry, Participants in school environmental clubs will be empowered with basic skills on tree nurseries establishment and management. Trees are marketable today so students can possibly start their own commercial tree nursery small business ventures when they are done with school, resulting in both greater agroforestry development and economic improvement. Project will help the Society reach toward its goal of planting 15 million trees which is Organization annual target starting in 2021



FICIEL GEBUILTE, 5 MOTORS

Project coordinator: Ms Msambwe Madiwa Hozza

Reporting period: Every after 3 Months

Location of planting: Mlongwema High School

GPS coordinates of planting: -4.6258, 38.42494

Project description:

Project Purpose:

The purpose of the project is to make contribution in sustainable conservation and management of the Miola zone Forests reserve and water sources.

The goal of the project is to enhance tree planting in villages adjacent to Forest reserves and conserve water sources so as to reduce pressure on the degradation of the natural resources whilst assured adequate Trees availability to communities adjacent to Usambara Mountains especially on Forest Nature reserve so as to encourage self-esteemed Tree planting habit among the communities while generating income for the schools hence improving living standards to the community.

The project aim is to: Grow, plant and guard large-scale reforestation projects, To prevent deforestation by alleviating extreme poverty through employment. Restore the environment through reforestation efforts, improving agriculture and carbon sequestration. Restore vital animal habitat, our Project has a goal to address the following under these topics whereby;





effective instrument to combat deforestation in Lushoto district. It also seeks to re-estat management and nature as well as remove the to loss of biodiversity. This project planting, reforestation and encourage

> the boys whose hs was

MORE OUTCOMES INCLUDING BUT NOT LIMITED.

n Impact Program, focusing on the promotion of land management while also increasing the d communities that are dependent on farming ct is addressing fruits trees on Agro-forestry unity by eradicate and graduate them from

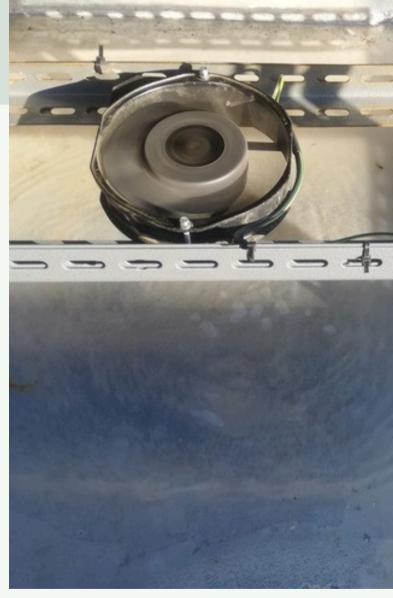
ogram, addressing the promotion of low-carbon bout on this pilot phase 2500 trees were planted as water source but the goal is to plant millions

REELLION

The project also has an ablishment of Green school program. "Green chools which aims to support teachers and local and global importance of trees and forests

TECHNOLOGY PLATFORM: MTP





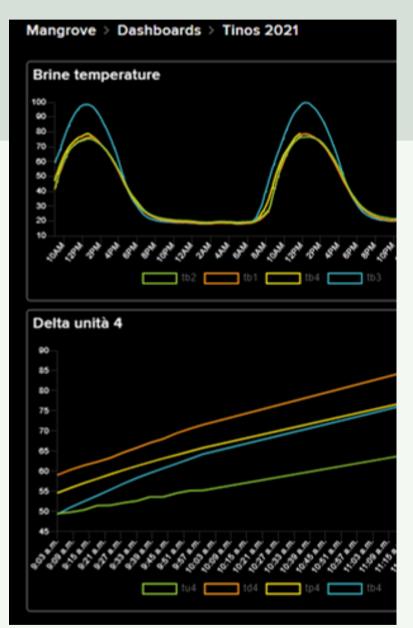


Modular desalination units

Embedded salt factory

Deep root irrigation system





Process control using IoT devices

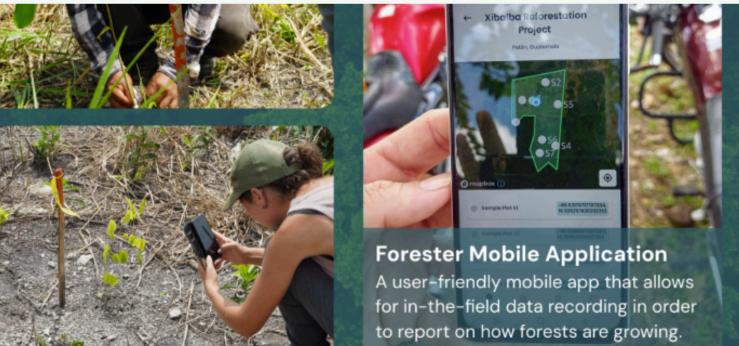
CARBON CREDITS

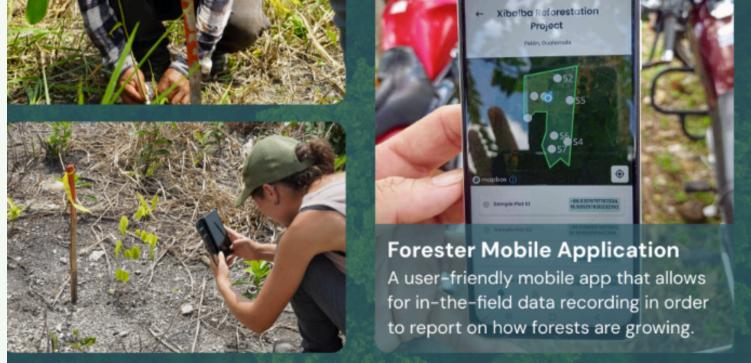
Itreellion is partnering with Open Forest Protocol (OFP) a 3rd party provider to digitalize and simplify the monitoring process.

The project will be registered for carbon credits. Those credits go directly toward the project. Not to Itreellion or Planet, providing an incentive and income source to the community involved.

Projects submit field data











Activity

Data collection of the site and general engineering project layout

Desalination system engineering and bill of materials

Order, purchase, shipment of the components to the site

Assembly, installation and launch of the desalination system

Training of local community for the management of the desalination ur

Nursery work and plant purchase

Soil preparation and fancying

Planting season (during the wet season)

Plantation maintenance (organic pest control, weeding, etc.)

Registration of the plantation to Open Forest Protocol

	Responsible	Start	End
	Planet	M1	M3
		M4	M6
		M4	M6
		M7	M9
nits		M7	M9
	Itreellion	M3	M6
		M3	M6
		M6	M12
		M9	M12
		M12	M12