Plant-for-the-Planet Ghana Activities Report 2023







Plant-for-the-Planet supports the United Nations Environment Programme

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Introduction

A bright future requires us to combat the climate crisis as a top priority. But, it also depends on bringing about the conditions necessary to allow billions of people to live safe and dignified lives: those, who live or will live at the forefront of the climate crisis.

At Plant-for-the-Planet, we restore forest to empower people in the fight for a better climate and to end poverty. Our new project in Ghana (Africa) strives to show this massive potential for the region with each tree planted.

This Activities Report (2023) serves as a comprehensive summary of the activities and achievements of Plant-for-the-Planet Ghana in 2023.

Transparency is our top standard at Plant-for-the-Planet. So, look forward to a glimpse into the country of Ghana with its beauty and its challenges. Learn about the ecosystem that could be restored. Get to know the faces behind the project, their hopes and struggles. See what exactly it is we are doing on a daily basis, how exactly we do it and why.

Know also that our project is at the beginning of its journey. So much can be accomplished in the next 3 or 10 or 100 years. We invite you to join us on this path as **supporters**. Be sure to contact us to learn more.



Message from the Founder

Dear donors, dear supporters,

Our mission is to restore ecosystems and combat the climate crisis in the heart of Ghana, a region I call home. Growing up here and seeing the severe impacts of environmental degradation, I was inspired to create change. After many years as a Plant-for-the-Planet Climate Justice Ambassador, in 2021, I founded Plant-for-Ghana, a project that goes beyond just planting trees. It's about restoring lost and crucial ecosystems, creating green jobs, and nurturing sustainability for local communities.

Each tree we plant in Ghana's savannah region is a beacon of hope, a guardian against climate crisis, and a source of resilience. **Together, we are rewriting the climate crisis narrative**, empowering women and youth, and fostering environmental awareness. We're creating a greener, healthier planet for us all. **Join us.**

MOHAMMED RABIU

DANNAKABU Founder and Executive Director of Plant-for-the-Planet Ghana

Ghana

Ghana is a country in a climatevulnerable region with a great potential for a positive impact on the world.

Historical background

Ghana's history is marked by resilience and transformation. From ancient empires like the Ashanti, Fante, and Dagbon to its colonial era as the Gold Coast under British rule, Ghana gained independence in 1957. Since then, Ghana has been a beacon of stability and democracy in Post-independence, the region. Ghana faced various challenges, including economic difficulties and environmental degradation. However, the nation has also shown active engagement in climate change mitigation and environmental preservation.

Climate vulnerability

Ghana, situated in West Africa, is a facing significant nation climate vulnerability, which necessitates а strategic response to mitigate and adapt to the consequences of the climate crisis. Ghana's geographic positioning renders it exceptionally susceptible to the impacts of the climate crisis: particularly irregular rainfall patterns, extended droughts, and escalating temperatures pose grave threats to agriculture, food security, and the livelihoods of millions, particularly in the northern regions. That's a big part of the reason why Plant-for-Ghana project came to life!

Environmental problems and our solutions **Why has the ecosystem been degraded?**



Cut down trees around the planting site, 2023

Ecosystem degradation in the Northern region is catalysed by economic underdevelopment and lack of opportunities. Forest ecosystem restoration can effectively address that and achieve socio-economic development that benefits everyone.

DEFORESTATION



The country is facing a significant loss of biodiversity due to commercial deforestation.

Ecosystem-focused forest restoration is the best way to restore Ghana's lost forests.

WILDFIRES



A much drier climate due to climate crisis and fragmentation makes forests especially vulnerable to destructive fires.

Strategic fire management is crucial during worsening climate conditions. Healthy ecosystems directly reduce fire risks.



Wildfires at the project site, May 2022



Charcoal Burning in the communities in Bampewa, 2023





Charcoal production is prevalent in many communities in Ghana. It represents a source of income in areas with limited or unavailable employment opportunities. Alternatives to this ecosystem-damaging last resort are needed.

Plant-for-Ghana represents an alternative source of income to charcoal with additional environmental and economic benefits.

About Plant-for-the-Planet

Plant-for-the-Planet is a global movement empowering people and organizations to restore forest ecosystems and fight for climate justice. To do so, we educate young people, restore ecosystems, conduct restoration research, and provide free software tools and restoration advice for organizations worldwide. **Plant-for-Ghana** is a hybrid restoration agroforestry project initiated by Plant-for-the-Planet Ghana – a national affiliate of the worldwide organisation Plant-for-the-Planet.

Sustainable and highly bio-diverse forest restoration is how we can bring back the lost and degraded forests ecosystems in Ghana's Northern Savannah Ecological Zone to contribute to climate crisis solutions both locally and globally.

The overall goal of the project: **10 MILLION TREES**



Our mission is to restore 10 million trees in Ghana's Northern Savannah Ecological Zone, catalysing the ecosystem's crucial functions

including climate mitigation and adaptation. Beyond the environmental impact, we aim to alleviate poverty in the region by cultivating community-based job opportunities stemming from the forest restoration work. In particular, we aim to improve the socio-economic living standards in the region by empowering women groups and the youth.



Our vision is to bring back thriving forest ecosystems as close as possible to their state before degradation and enable people to sustainably benefit from it. As such, we aspire to be a role-model project for holistic community-led forest restoration worldwide.

Community Objectives



Green Job Creation

creating **fair**, **stable and long-term employment** with above-average benefits for the local communities



Women Empowerment

supporting **gender equality** and providing women with opportunities, employment, and education



Biodiverse Restoration

restoring degraded ecosystems and bringing back resilient, rich, and healthy forests that benefit nature and people

Global Objectives



Climate Crisis Mitigation

Restoring forest ecosystems is a positive and crucial part of nature-based climate solutions in absorbing carbon emissions.



Sustainable Development Goals

The project contributes to all 17 UN SDGs, representing a global effort for a better future for all.

In particular, we focus on these SDGs:



How are we going to **achieve** this? Together.

Our Strategic Principles

Strong community support and adherence to high-quality practices make our project's scalability possible and desired. Thanks to the sympathies of local communities, our impact remains **effective** and **replicable** across the region.

For example, cooperation has already started between the Czech Embassy in Accra and Plant-for-Ghana to expand our work to the communities Chibrinyua and Kyinga Krom.

The core community (Banpewa) and its active engagement ensure our initiatives align with local needs and aspirations.

The community becomes an integral part of our success by fostering a sense of ownership.

International Cooperation

Scalability and region-wide outreach

Funding from various sources

Community Involvement

High-quality **Restoration** and **Agroforestry**

The climate crisis is a global problem that requires cooperation across national borders. We cooperate with our partners within the Plant-for-the-Planet International Network and other governmental and non-governmental actors worldwide to maximize our impact.

> Plant-for-Ghana receives **funds and donations** from various sources: the <u>Plant-for-</u> <u>the-Planet Platform</u>, private and company donors, and other governmental grants through development aid.

Forest ecosystem restoration, intertwined with agroforestry, is crucial to our strategy. Beyond biodiversity and carbon sequestration, this approach is tailored to meet the economic needs of local communities. Agroforestry serves as an avenue for sustainable farming practices, where trees yield renewable products with economic benefits. This dual-purpose strategy revitalizes ecosystems, addresses poverty, and fosters local development. By strategically integrating forest restoration with agroforestry, we aim to create a sustainable, economically viable model that uplifts both people and the environment.

The history and milestones of Plant-for-Ghana

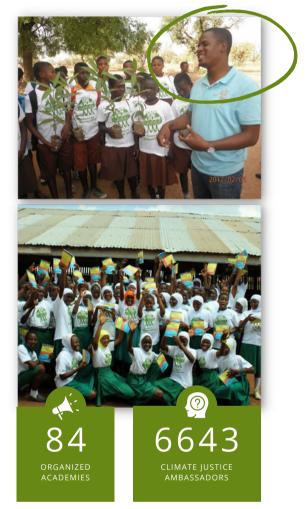
It all started with one dedicated individual, and then many more followed!

2013

Mohammed initially became the **President of the Plantfor-the-Planet Global Board** as a Youth Climate Justice Ambassador after he had discovered the organization online. His motivation to make a meaningful impact in his home country, Ghana, grew.

This marked the beginning of his efforts to organize Academies across Ghana to provide essential knowledge to children about the climate crisis, enabling them to contribute actively to securing a sustainable future. Ghanian Ambassadors joined a global network and were able to find their place within the global family of Plant-forthe-Planet.

Mohammed Rabiu Dannakabu



We realized that issues in Ghana are becoming more serious. Together with the team, we decided to take another step towards solutions in restoring degraded lands.

2020

Mohammed founded the non-profit organization **Plant-forthe-Planet Ghana.** This underlined his previous commitments towards Ghana and enabled him to start a brand new planting project **Plant-for-Ghana**.

2021 The first tree planted by Plant-for-Ghana marks the beginning of the journey!

The chief and members of the local community of **Banpewa** attended the opening festive ceremony. Involving the community also enhances the



the project's long-term viability, as residents become stewards of the restored environment, fostering a collective commitment to its **preservation and sustainability.**





The nursery relocated and its capacity doubled!

What's more, the return of **two** wildlife species was witnessed around the nursery and the planting site.

Drone view of the nursery, 2022

Deepening of the Czech-Ghanaian Cooperation

Plant-for-Ghana and the Czech Embassy in Accra

On top of the existing friendship between **Plant-for-the-Planet Czech Republic Nadace** and Plant-for-the-Planet Ghana, Mohammed deepened the relationship and received support from the Embassy of the Czech Republic in Accra to drive global restoration and climate justice.



Mohammed at the Embassy of Czech Republic in Accra with the head of the mission, H.E. Mr Ján Füry, 2022

2023

So far, between 2021 and 2023,

67,612

new trees were planted!

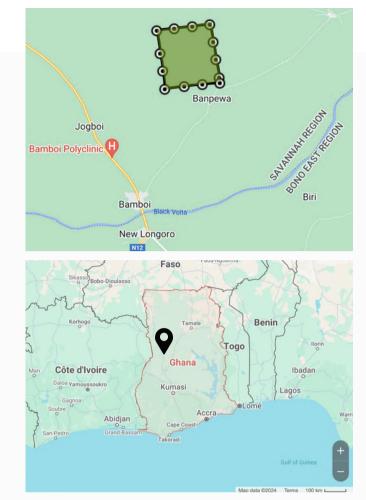
What will the future bring?

Project Location

The site is located in central Ghana's Bole District of the Savanna Region. The site is near the settlement of Bamboi, which neighbors the Banpewa community. The closest water source is the Black Volta River, which creates a natural border between the regions.

What is the ecosystem type?

The project is located in the transition zone of forests to savannah woodlands. This for transition zone is crucial combating desertification, because it is the frontline that can allow deserts spread if not maintained. Hence, the forests restored here present a very vulnerable but even more valuable ecosystem.





Planting Site

Drone picture of the Plant-for-Ghana planting site, August 2023

1,000 ha

total area for the current project site

Tree Capacity: <u>1 MILLION TREES</u>

Planting location: bit.ly/plantingsite

Demarcation of the Area

Demarcation is done with boundary pillars, marked with numbers from **1-13**, distributed around the whole planting site. The map with the boundary pillars and their coordinates can be found at bit.ly/planofland

The active planting area is marked with 16 plots covering 16 ha.

Picture #1 showcases the demarcation of the area with planted trees and lists the mix of planted species, 2023



Picture #1

Land Ownership

Private, legally owned by Plant-for-the-Planet Ghana as of 2020 with Plant-for-the-Planet Foundation access rights for the next **70 years.** All legal documents are signed and notarized.

The land, 1000 ha, was leased from the Banpewa community, signed by Nnaa Dr. Agbaa Jaaga III. of Chief's Palace Banpewa on behalf of the Banpewa community.

The lease contract is to be found at bit.ly/landcontractghana



Mohammed Rabiu Dannakabu, team from Plant-for-the-Planet Czechia and a scientific advisor, Dr Peter Borchardt on the planting site of Plant-for-Ghana, 2023



The tree nursery is essential for nursing **high-quality tree seedlings** and providing **long-term employment** for the community. The nursery is not far from the planting site: in Bamboi, near the water source. There, it has access to the necessary infrastructure for easy movement of the seedlings to the planting site.

What are the benefits?

R

Our own production of seedlings and a diverse mix of species

Flexibility in species planning thanks to the cooperation with FORIG

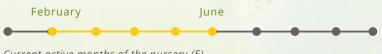
Easy data collection and monitoring *for analysis*

Close proximity to the planting site *as well as water and infrastructure*

Long-term **permanent employment** for **trained employees**

On our way to all-year-long nursery

At the moment, the nursery is seasonal and depends on the planting season. The number of seedlings depends on the amount of donations received by Plant-for-Ghana.



Current active months of the nursery (5)

Nursery capacity: <u>120,000</u>

200 elevated platforms can grow the seedlings – 600 polybags/platform!



The nursery presents great potential for scaling up the seedling production in the future. Making the nursery active for the whole year is one of the main goals when scaling up the project! This will ensure even better seedling growth, better planning, and better use of resources. Then, with increasing donations, we can scale up the nursery capacity as much as necessary.



Hybrid project with two different approaches

Planting high-diversity tree species mixes in deforested areas ensures that forest restorations are resilient to the ongoing threats of climate change and is also proven to lead to forests of numerous functions and benefits.

Native Species

Agroforestry Species



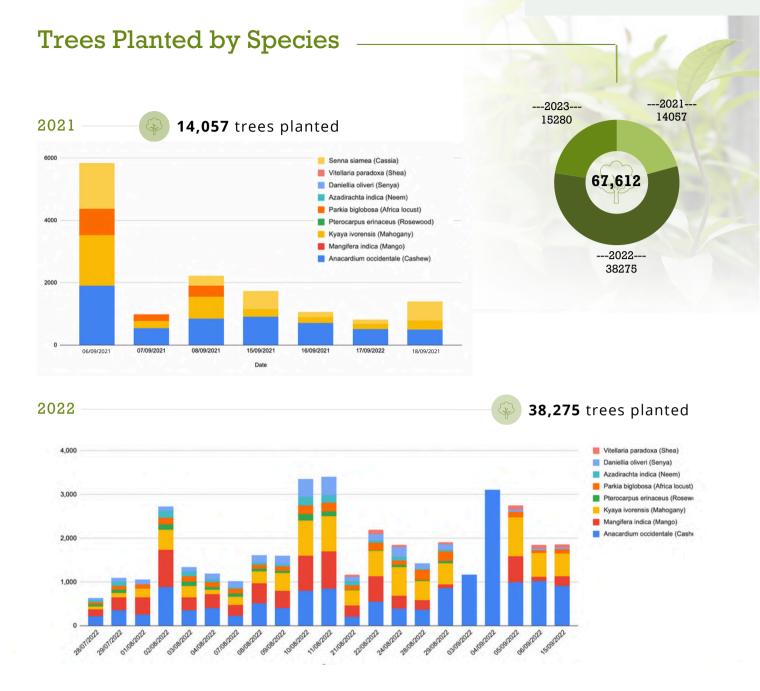
Mixing native and agroforestry species ensures that local communities can benefit from the fruit and non-timber products produced by a subset of planted tree species (eg., cashew or mango). This ensures **sustainability and contributes to the economic empowerment** of involved communities.

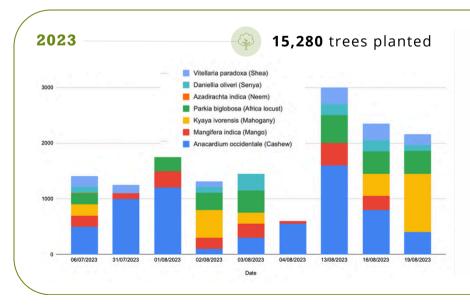


The mix of agroforestry and native species is selected with the advice of the Forestry Research Institute of Ghana

List of Tree Species (So Far)

#	Scientific name	Local name	Benefit
1	Khaya senigalensis	Mahogany	environmental and economic
2	Azadirachta indica	Neem	environmental
3	Pterocarpus erinaceous	Rosewood	high environmental
4	Parkia biglobosa	Dawadawa	environmental and economic
5	Daniella spp	Senya	environmental
6	Vitellaria paradoxa	Shea	environmental and economic
7	Mangifera indica	Mango	economic - agroforestry
8	Anacardium occidentale	Cashew	economic - agroforestry



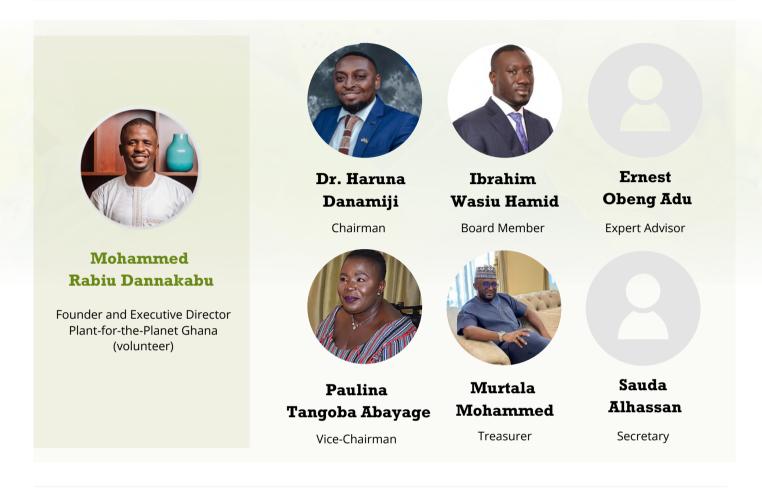




Planting days happen during the planting season and last a few months a year, but growing the seedlings in the nursery and caring for the trees after planting **carries on all year!**

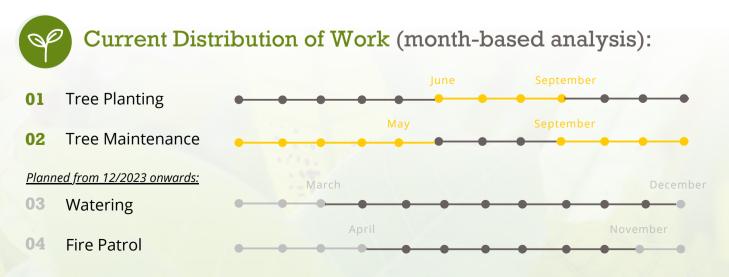
Plant-for-the-Planet Ghana: the charity

Board Members and Management



The Restoration Team

A proficient restoration team is integral to the success of any environmental project. With the intricacies of ecological restoration requiring specialized knowledge and skills, **a trained team** ensures the implementation of scientifically sound and effective restoration practices. What's more, restoration work changes throughout the year.



Employee Spotlight

In 2023, there have been **3 permanent** workers, including a nursery manager. In the nursery, they're responsible for seed germination and planting, soil preparation, watering and irrigation, weeding and pest control, monitoring plant health, and much more!

Trained employees in the nursery mean stable, high-quality, and effective seedling production, from seed management to transport to the planting site.

Permanent Nursery Workers



Nursery/Planting Manager



Nursery Worker	Personal Story	Benefits and Impact	ldentified Challenges
Edith Addo	Edith comes from the Eastern Region and relocated because of a lack of work. She enjoys caring for the seedlings daily as it serves her as her peaceful spot in a busy life.	She inspires the other women to be active and independent in employment. Edith herself earns a living and sees the environment as a crucial part of a healthy livelihood. Education and learning from "nature" drives her.	There is a lack of drinking water, and she would appreciate more hospitable care during working days. Similarly, direct sources make the watering of the seedlings easier.
Charles Bakunmini Nminlanaa	Charles, a nursery worker, completed his Senior High School education and first cooperated with Plant-for-Ghana as a restoration worker on "by-day-work." After showing dedication and hard work, he joined the team permanently.	Gaining education in restoration and environmental practices that can be used on private farms later (knowledge transfer). Having employment and extra income.	Extensive workload because of the scale of the nursery and many parallel activities that are happening.
Ali Addrisu	Ali , a Nursery and Planting Manager, originally comes from Kumasi and previously worked as a seed officer and has a Bachelor's Degree in the field. He's in charge of coordinating day-to- day activities in the nursery and manages workers during planting days.	Permanent employment, dynamic work, and the opportunity to learn and work in a team to positively influence the community and the environment.	Seed management and collection are a challenge. He would appreciate better water management for watering the seedlings to make the process more effective.

The table summarizes the stories, personal benefits, and identified challenges by the nursery workers in the conducted detailed verbal interviews during the visit of Plant-for-the-Planet Czech Republic at the nursery in August 2023.



I like the work because I'm a woman, and I can prove to them that a woman can do the "men's" work. Whatever a man can do, if a woman feels like doing it, she can do it. - Edith

Restoration Workers (Tree-planting Team)



15-20 Restoration Workers / Planting Day

Restoration workers actively contribute to the cleaning of the area, planting, and tree maintenance during the planting days. Planting days are always announced to mobilize the workers and deliver the information to the directly involved groups – chief, youth leaders, and women leaders are informed first-hand.



All Planting Activity is monitored and transparently reported with TreeMapper app. Data is showcased in polygons <u>here</u>.

Trees are life. I don't think we can survive without them. We want to do it bigger and we need to plant for the planet and plant for Ghana. - Charles



Planting days start early in the morning and happen during the rainy season. Seedlings are distributed to the planting site, the planting area is marked, and work is divided among workers for **effective and high-quality tree planting**.

Our Restoration Team in Ghana during a visit by Plant-for-the-Planet Czech Republic on planting day: 06/08/2023

Local Communities' Involvement

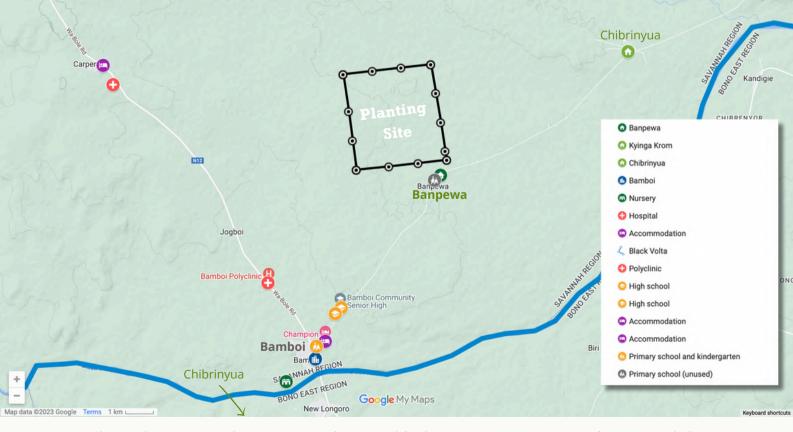
The main community Plant-for-Ghana cooperates with is **Banpewa Community** (see the map below). To ensure effective understanding, cooperation. and implementation of the project, regular communication happens with the 3 main groups identified as crucial for the project's success and maximizing the environmental and positive socioeconomic impact (see Diagram on the right). People of the community are directly involved through employment and other partnerships.



Diagram describes 3 main groups within the Banpewa community involved with Plant-for-Ghana



We hope to keep the forest alive so that in the next 10 years, animals such as monkeys can come back. The project can be a role model for the region; other communities will follow and understand the long-term impact!



- Banpewa community elder

The map above summarizes the most important subjects around the planting site: nursery, communities, infrastructure, and other essential institutions like schools, **see the legend**

Women of Banpewa

Actively involving women in our initiatives serves a **dual purpose:**



significant contribution to the ecological success of forest restoration



addressing **gender inequalities** by providing employment opportunities

Through our project, women contribute to green jobs, fostering economic independence and self-sufficiency within local communities.



Women are integral to the fabric of our forest restoration efforts within Plant-for-Ghana.





Transportation

The only means of transportation is walking, which is time-consuming - to work, the market, or school.



Walk for water

It's women who travel long distances to fetch water for household needs and spend hours daily on water collection.





Information Transfer

Women need to get the right information about the availability of work opportunities to empower them to participate. Women's spokes-person ensures that.



Challenges were identified through the conducted interviews and during a meeting with the Women of the Banpewa community.

Currently, we focus on creating a **Plant-for-Ghana Women Group** to address the mentioned challenges and focus on long-term empowerment.



Youth Group of Banpewa

Young people can be drivers of environmental and social change in the region. Listening to their voices gives us the perspective to understand the struggles, challenges, and the **positive impact possible**.

The youth proved themselves to be motivated, showed appreciation for the project, and defined their struggles, which is crucial for project development and **well-targeted change.**



Low-quality water source that is polluted and is shared with animals, 2023, Banpewa Community.



Youth Leader (orange T-shirt, second from the right) is the main point of contact and information transfer.

How does the project benefit them?



Green Jobs and Employment – they can support themselves and their families

Understanding of the **protection of the area** - forests are essential for the community and the environment.



The biggest motivation would be an **all-year-long employment** that provides security and stability.

They are **open to discussing protocols** and other further environmental protection measures and their implementation.

Elders and **the Chief** of Banpewa

Since the beginning of the project, the proved Elders to support its implementation greatly. Their motivation is rooted in being a role model for Ghana's ecosystem restoration and community development (health facilities, employment, poverty reduction)

They are important Ambassadors of Plant-for Ghana project.



Plant-for-the-Planet Czechia met with the Elders in Bamboi, August 2023.

On our way to involve **more communities!**

Consideration of other communities in the proximity of the project can boost scalability and positive impact.

Community problems don't end with one community; therefore, **our work** and impact also don't!

Identified problems that all communities face in the region:



Energy poverty – no electricity / limited access to electricity

Water availability – no source of water / polluted sources / not enough sources

Lack of **healthcare** and lack of **childcare and schooling**

Lack of **permanent work opportunities** and income in the region

Chibrinyua Community



Meeting with the Chibrinyua community during the Plant-for-the-Planet Czechia visit, August 2023.



Kyinga Krom Community

How do we adress them?



So far, we provided the Banpewa community with a set of **12 solar lamps.** These present a renewable source of electricity and light.

Healthy ecosystems and climate adaptation practices help with water management.

Dr. Haruna Danamiji Osman, our chairman, is finding ways of delivering accessible healthcare for the involved communities.

Scaling up the project will create more employment opportunities and possibilities for **long-term employment in the region**.



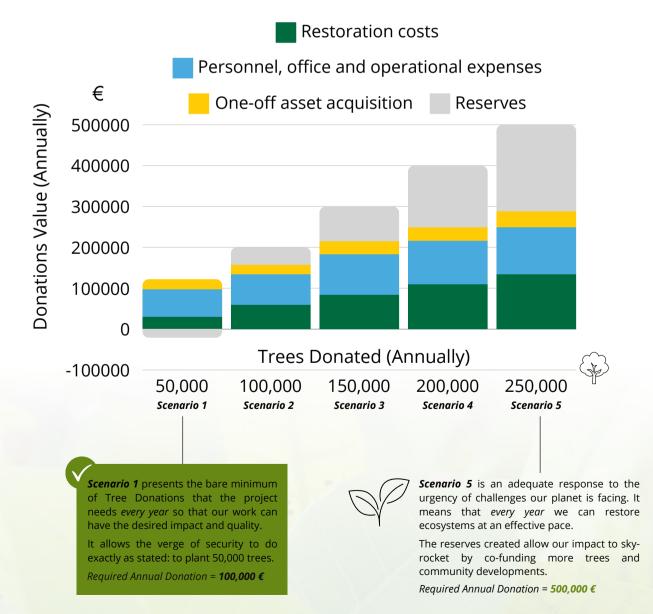
Meeting with the Kryinga Krom community during the Plantfor-the-Planet Czechia visit, August 2023.

Main Achievements of 2023

In 2023, **together with our partners** (organisations, companies and individual donors), we have an incredible positive impact on the environment, local communities and also contributed to sustainable development in Ghana, with the spillover to the world. Let us show you some of our biggest achievements of 2023!

Ol Financing Scenario 1 of our Sustainable Growth Plan

Budget Scenarios at 2 € per tree



21

02 Planting Site Improvements

Increasing Species Diversity

A successful restoration project cannot be a monoculture, nor anything near it. To restore quality forest as close to the image of their original composition, we strive to plant diverse native species that benefit each other and create a truly biodiverse ecosystem. So far, we've been able to plant 8 species in total, but we don't want to stop there.

With larger numbers, we can get more uniquely-taylored deals on **seeds** thanks to a **seed partnership with Forestry Research Institute of Ghana (FORIG)**. Instead of relying on what can be collected by hand, FORIG can provide us quality seeds of diverse species, being The National Tree Seed Centre.

The deal includes **expert advice** on which species to plant, where and in what quantities. That way, we restore the ecosystem as best as we can!



New species added (+10):



Dawadawa

Cashew

Agroforestry benefits

Species planted so far (8):

Mango

. . .

Neem Rosewood

Senva

Shea

Mahagony

annual

endangered!

Fighting floods with water-friendly trees



Red = our planting site Black = flood-prone shallows A minor flood has hit the project in 2023, thankfully without any damage to the young trees. But the climate crisis will always pose the risk of flooding.

That is why we **identified the flood-prone areas** within our planting site. Going forward, the species mix in those areas will be altered to **prioritise species suited for water**.

This means that those trees will **better absorb water**, lowering flooding risk for all of the project while their growth benefits from the increased water supply.



Fire mitigation: Fire squad & fire belts

Every restoration project has to tackle two main natural threats: water and fire.

We have learned this the hard way: In early 2023, we had a fire on the project. Its origin was not natural but human-made, which gives us optimism about the ecosystem's resilience to natural wildfires, but still, it pointed to an important challenge. Approximately 32,000 newly-planted saplings were damaged, of which roughly 12,000 **recovered**.

We have **replanted** all of the rest later at our expense.

Addressing the challenge

1) Fire squad

With the newly-proposed Planting Site Team of 15 all-yearround workers (see more on **Page 09**), we can now train and convert part of the team to fire patrol during dry seasons. Keeping an eye on fires day and night, equipped with firefighting emergency equipment, is the best way to prevent potential small fires from growing big.

2) Fire belts

The Fire squad will create fire belts – protective stripes of nonflammable land around the project boundaries and around key planting locations. Done either by controlled burning or by clearing with the aid of a tractor, it is a good way to ensure that a fire from the outside cannot spread to our precious saplings.



annual

not included in the Tree Scenarios (unless funded from reserves)

With all of the Tree Donation Scenarios only covering us going forward from the next planting season onwards, the **shortly-upcoming dry season** is currently not covered in terms of manned fire protection.

But this gives us the opportunity to already form our first Fire squad from the community members – it will only have to be funded either from the Tree Donation Scenario reserves, or by a separate donation.



after the 2023 fire **Right**: a sapling recovering from fire





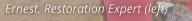
()3 Organizational Improvements



Setting Up an On-site Office

The planting site needs to set up and equip with utilities a space for all the **on-site employees** (planting and nursery teams and officers) where they could keep equipment, do management work and hold meetings and trainings. Furthermore, the space shall be the representative entry-point for all visitors to the project, including potential partners and the wider teammembers.







Ali, Project Officer candidate



Charles, Liaison Officer candidate

Hiring an On-site Team of Full-time Officers

As we scale up and improve the quality of our work, our team needs to grow with the task. That is why, going forward, we propose a team of officers based around Bamboi or Banpewa to manage the work on our planting site.

This includes 3 main roles:

Restoration Expert

- creates and adapts the restoration strategy, eg. species mix, planting and care methods, site maintenance
- oversees quality of work and designs improvements
- educated expert in ecology with restoration experience

Project Officer

- manages all daily operations on-site and implements the guidance of the restoration expert & director
- distributes work in both nursery and planting site
- educated and experienced in management or similar

Liaison Officer

- right-hand of the project officer
- maintains all communication networks and relationships, eg. involved community groups, focal points, contracters
- is local to the area and has enthusiasm



All-Year Planting Site and Nursery Teams

While in the beginning of the project, both planting site work and nursery work were **seasonal**, with scaling we need core teams of workers established that are committed to the project full-time and most importantly, all-year-round.

This is also crucial for the engaged community members who have voiced their need for a stable, **long-term employment** that is not seasonal. Together with **fair wages that will rise with performance**, this is a pre-requisite for economic empowerment and breaking the poverty cycle.

Planting Site Team

The Banpewa community will provide the core team of 15 employees to do all necessary work on the planting site. Depending on the season and planting needs, they will be trained for the following works and converted as necessary:

- tree-planting
- care for growing trees and watering
- site maintenance and clearing
- fire patrol and fire belt maintenance
- security

Tree Scenarios 1-2 = **15 workers** Tree Scenarios 3-5 = **25 workers**

Note: Additional ad-hoc workers can be called from the community on a non-permanent daily basis as needed.

Nursery Team

From the Banpewa community and Bamboi, we form the team for the Nursery (located in Bamboi). Aiming for an all-women team, they will form the hub for women empowerment and provide an expertise-based care for our seeds and seedlings.

Edith Addo, with her passion for the project, is a true role-model and deserves to be promoted and to Nursery Team Leader with adequate wages and benefits, which will apply to all of the Nursery Team.

Tree Scenarios 1-2 = **4 workers** Tree Scenarios 3-5 = **8 workers**

Note: Additional ad-hoc workers can be called from the community on a non-permanent daily basis as needed.



Scenario 1-2: € 25,000; Scenario 3-5: € 42,000

04 Other Impovements Project and Community

Nursery upkeeping: floor strengthening

Spreading floor chippings in water-logged areas will make the Nursery **more accesible and safe** in case of changing weather conditions.



Replacing torn shade nets in the nursery will improve the survival of seedlings before the next season and improve the overall shade management.





Picture above showcases some of the parts of torn nets, 2023

More **cost-conscious approach** to plant cultivation

Currently there are single-use plastic poly-pots being used. Replacing them increases their durability, which leads to cost-effectiveness and aligns with sustainable practices of minimizing waste.

Reusable Poly-pots for the Nursery

Using better, reusable poly-pots **improves the sustainability** of the nursery and the quality of nursery outputs.



Filling of the poly pots, 2023 before the planting season



Putting seeds into the poly bags in the nursery, 2023

Better Nursery Water Management

Currently, watering the seedlings is time and labor-intensive without a regulated and automated distribution of water.

Water Tank Tower in the Nursery

Water tank tower **optimizes irrigation practices** and alleviates the **burden of manual labor.**



Illustrative Photo of one types of the water tank tower suitable for the Nursery, 2023



One of the workers manually watering the seedling, 2022

Energy Poverty in the Region

The pictures below showcase how dark it gets. Pictures were taken with flash around 7 pm in August 2023 during one conducted community meeting



Lack of electricity is a significant and multifaceted challenge, with repercussions extending across daily life. Limited access to electricity limits educational opportunities, causes business constraints, and supports reliance on biomass.



Bringing Light to Banpewa



The Banpewa community is in darkness. For better living conditions, each household should be provided with **a solar lamp. At community vantage points, solar street lamps should be installed.**



During the Project Visit in August 2023, we provided the Banpewa community with **12 portable solar lamps** distributed equally within the households. This was just a small step on



the way to solving energy poverty.

Water Scarcity in the Region

Our community struggles with inadequate access to clean and reliable water sources. Women walk and cover extensive distances to secure water for their families. This raises hygiene and sanitation challenges, leading to water-



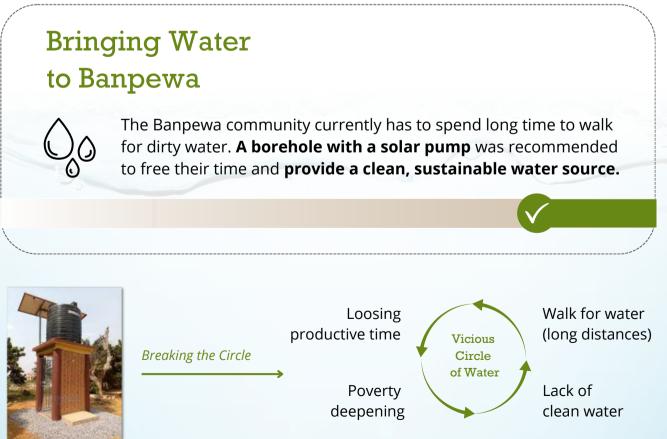
One of Banpewa's water sources is polluted and shared with cattle; even to reach this one, they must walk kilometers. The closest natural water source is the Black Volta which is kilometers from the community.

borne diseases and compromising the overall well-being of communities. The situation underscores the urgent need for sustainable water management practices and infrastructure development to alleviate the burdens faced by women and communities.

Ensuring equitable access to this fundamental resource is important for a healthier and more prosperous future.



There is one hardly functioning water well that serves everyone; the water has low quality, is polluted, and cannot support all the households in Banpewa during the dry season. For some households, this water source is again very far.



Example of a Solar Pump Borehole

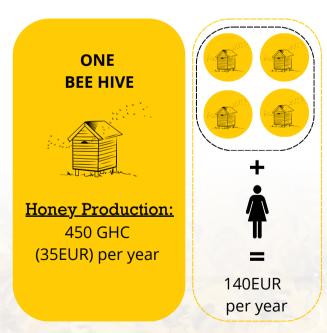
The diagram describes the Vicious circle of insufficient water management and its socio-economic impacts

Expanding Empowerment Strategies

Incorporating bee-keeping into our project holds immense potential, particularly for empowering women and fostering sustainable economic development. Beekeeping provides an avenue for women to actively participate in a business venture that not only contributes to environmental restoration but also generates a reliable income stream.

Bee-keeping set-up and trainings for women

Bee-keeping can ecologically enhance the planting site and give empowerment and income to women as part of a proposed cooperative; the budget below is for a trial start with **20 women involved**, **4 bee-hives each**.





Beekeepers using protective gear harvest honey in Mafinga, Tanzania in 2022. Photo: © FAO/Luis Tato

The production and **sale of honey** and other bee-related products not only bolster individual financial autonomy but also contribute to the economic resilience of the entire community.

Lack of Transportation in Emergencies

In emergencies, swift access to medical care can be the difference between life and death. Unfortunately, the lack of proper transportation and infrastructure leaves many residents vulnerable, particularly in remote areas where our community lives as well.

The plcture on the right shows the inside of the below showcased vehicle

Transportation for medical urgencies

A **motorbike ambulance** for the Banpewa community will address the lack of transportation for medical emergencies and ensure safe transport to medical facilities.



Picture showcases our Motorking Ambulance as the mean of transportation in emergencies



Partnership Overview



Ol Plant-for-the-Planet Czech Republic & Plant-for-the-Planet Ghana

National entities foster a "patron" entity relationship with a fundraising focus focused on long-term financial support. They cooperate on co-developing the project. We're inspired and learning from the example of Plant-for-the-Planet Foundation in Germany & Yucatán Restoration in Mexico.

Šimon Michalčík, Founder and Executive Director of Plant-for-the-Planet Czech Republic, Tamara Cibuľková, Project Manager, and Mohammed Rabiu Dannakabu have already had a years-long close cooperation.

02 Plant-for-the-Planet Ghana & Plant-for-the-Planet Foundation

Plant-for-Ghana receives scientific advice and support from Germany's "mother" entity. This close cooperation underlines the international climate action.





Cooperation with the Czech Embassy in Accra

The Czech Embassy in Accra started the cooperation as a partner of the project in 2022 when communities Chibrinyua and Kyinga Krom received **10,000 trees** (cashew and mango) financed from the Czech Republic Development Cooperation as a Small small-scale project. The realization of the project happened in 2023.

This was just the beginning! Now, Plantfor-Ghana is communicating with the Embassy regularly and discussing ways of future cooperation focused on economic development, women's empowerment, and sustainable goals through forest ecosystem restoration.

Picture #1 shows the Embassy of the Czech Republic in Accra, Plant-for-the-Planet Czech Republic and Mohammed Rabiu Dannakabu, meeting with Economic and Trade Counselor, Beata Matusiková. Picture #2 shows Mohammed's participation at the Embassy's event with Deputy Ambassador Matěj Denk and Picture #3 showcases the visit of Beata to Chibrinyua Community

Future Outlook

In 2024 and the upcoming years, we want to continue our great work with our partners. We're happy to see the project and the positive impacts grow. Within our broader strategy, we will focus on those **four aspects in the future:**

Raising more funds to grow the project sustainably (focusing on further funding scenarios)			
Being a role mode l in setting restoration top restoration standards in Ghana			
Planting over 50,000 trees in 2024 (<i>already funded</i>)			
Deepening our local and international environmental cooperation			

Main Challenges faced

01

Bushfires

Bushfires are a common problem during the dry season. We overcame them easily without any major losses. Having a fire plan ready for the next season is a top priority for us to further lower the potential negative impact of wildfires. 02

Floods

We have faced a **regular type** of flood at the planting site that did not cause any significant damage. With the worsening climate crisis, it proves that we need resillient ecosystems more than ever.

03

Regular Challenges

Our **day-to-day activities** are complex and require a flexible approach. With that we area ble to effectively address all the challenges, starting from employment, planning or situations in our tree nursery.



Donation Account

Plant-for-the-Planet Ghana: Stanbic Bank Post Office Box 216 - Bolgatanga <u>Currency (EUR):</u> Acc. number: 9040009037025 -SWIFT/BIC: SBICGHAC <u>Currency (USD):</u> Acc. number: 9040009037009 SWIFT/BIC: SBICGHAC

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