



Northern Coffee Corporation Ltd.
Zambia



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THE HISTORY OF COFFEE IN ZAMBIA

Coffee was first planted in Zambia in 1972 on what is now the Ngoli Estate.

Overseen by a very energetic, active and supportive ZCGA (Zambia Coffee Growers' Association), there was a rapid expansion in planting in the late 1990's and early 2000's with national production reaching just short of 7,000mt and hoping to reach 20,000mt by 2010.



THE GLOBAL COFFEE PRICE CRISIS

The global coffee price crisis of 1998 to 2004 hit Zambian coffee estates hard. Most required significant investment and infrastructure, including the installation of irrigation systems which could not be made. Low prices forced most estates to switch to other crops. However, since Olam acquired the northern estates in 2012, significant investment has led to a rejuvenation of the Zambian coffee sector.

A RETURN TO FORM

Many will still remember the ZCGA Eagle brand which once boasted excellent cup quality and preparation. The NCCL estates are restoring Zambian coffee to the place it once enjoyed amongst Africa's finest Arabicas.

COFFEE PRODUCTION IN ZAMBIA FROM 1984 TO 2020

Figures supplied by the Zambia Coffee Grower Association (ZCGA)



THE NORTHERN PROVINCE



The Northern Province of Zambia shares its borders with Tanzania to the East and D.R. Congo to the North. It also occupies the southern shore of Lake Tanganyika - the world's longest fresh-water lake, the largest in Africa by volume and also its deepest.

The Northern Province has the best conditions for arabica coffee cultivation in Zambia with its relative proximity to the equator and abundant altitude (Mafinga Hills being the highest point in the country at 2,300 masl).

The local economy is dominated by agriculture with coffee being the primary commercial crop, alongside subsistence crops such as maize, millet, groundnuts and beans. The mountainous terrain and lack of transport infrastructure makes this region challenging to work in, but also one most in need of the investment and development which the coffee industry can bring.



ESTATES OVERVIEW

The Olam Coffee Estate Company in Zambia – Northern Coffee Corporation Ltd (NCCL) was started in 2012. It is both the largest coffee producer in Zambia and now the largest employer in the country.



NUMBER OF ESTATES: 5 in total - Ngoli, Isanya, Kateshi, Luombe & Nsunzu

CULTIVATED AREA: 2,200 Ha

IRRIGATION: Centre pivot irrigation system

CERTIFICATIONS: Rainforest Alliance, UTZ, 4C, AtSource & CAFÉ Practices

ALTITUDE: 1,300 - 1,630 masl

TEMPERATURE: Avg summer: 21 - 22°C
High: 36 - 38°C October
Low: 3°C early morning July

RAINFALL: 1,100mm per annum

PRIMARY VARIETAL: Cat 129 / Nyika

SPECIALTY VARIETALS: Java, Miracle & Marsellesa

PROCESSING: Fully Washed, Natural Gold, Anaerobic Natural & Honey

PORT OF SHIPMENT: Dar Es Salaam, Tanzania

SHIPMENT PERIOD: September - April

HARVEST: May - September

SPECIALTY LOTS SHIPMENT: June - August

PARCHMENT PROCESSING: 6 Weeks

APPROVAL TO SHIPMENT: 45 days lead (15 days inland transport)



1 X WAREHOUSE



1 X DRY MILL
(INCLUDING COLOUR SORTER)



1 X WET MILL



1 X CUPPING LAB



2 X QC STAFF MEMBERS



1 X Q GRADER

PROCESSING

We pride ourselves in growing and harvesting coffee, while paying careful attention to every detail. We recognize that it is in post-harvest processing that we bring out the varied and full flavours inherent in our crop. With a range of external consultants and in-house expertise we have honed our post-harvesting skills over several harvests, each year improving on the one before and trying new and innovative techniques.

FULLY WASHED

Our Fully Washed coffees are produced using ECOPULPERS and fermentation tanks based on each estate. All five estates benefit from an abundance of clean water on site, and a fermentation process which takes between 16 - 24 hours depending on the climate at the time. The drying takes place across estates using a combination of raised drying tables, patios and hot air beds. We ensure the coffee harvest reaches the pulping station within 6 hours of hand picking. Coffees are then sorted by size and weight and kept in a cool environment, allowing them to settle prior to export.

HONEY

Our Honey processed goes through careful cherry selection with double handpicking of the fullest red cherries ensuring a consistency of over 98% of fully formed red ripe cherries that go into flotation prior to cherry skin removal. The mucilage covered parchment is then dried on raised african drying tables for between 21 and 30 days before being stored in conditioning bins in which the parchment settles for a minimum of 1 month.

NATURAL GOLD

For the Natural 'gold' coffees, the best cherries are carefully selected with double handpicking (ensuring a consistency of over 98% of fully formed red ripe cherries) before being dried on raised beds. The cherries are spread across the beds in thin layers to ensure even drying, and regularly turned over a period of 3 to 4 weeks.

ANAEROBIC

We have experimented with both anaerobic and yeast fermentation. Our Anaerobic fermentation tests have varied from 12 to 72 hours, each bringing a unique flavor profile. We can tailor this process to meet the preferences of each of our buyers. The post-harvest processing for each lot is done on each individual estate.

CASCARA

We are currently developing trials for the production of Cascaras.

OUR MAIN EXPORT GRADES

ELB: (Extra Large Bean) Screen 20+

AAA: Screen 19

AA: Screen 18

AB: Screen 15-17

C: Screen 15

OTHERS: T, TT, Mbuni

All main grades are upto max 5 defects per 300 grams with the option of double handpicking.



FULLY WASHED

Body



Acidity



SCA Score



Flavour: well rounded and balanced with green apple, caramel, black tea and cherry.



HONEY

Body



Acidity



SCA Score



Flavour: balanced and smooth with lime, cane sugar and dark chocolate.



GOLD (SPECIALTY NATURALS)

Body



Acidity



SCA Score



Flavour: sweet and intense with candied orange, fruit punch and milk chocolate.



ANAEROBIC

Body



Acidity



SCA Score



Flavour: rich and sweet with pear, cinnamon, cherry and lemonade.



CASCARA

Body



Acidity



Flavour: light lemon, orange and grape.

SOCIAL PROJECTS

We are committed to partnering with and improving livelihoods in the communities in which our estates are located. To this end, we have already established a number of high-impact sustainability initiatives.

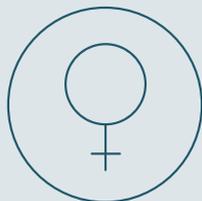


CREATING ACCESS TO EDUCATION

Given the sparse educational infrastructure in Northern Zambia, access to proper education is often a privilege. We are sponsoring some activities and recurring expenses of the Government primary and secondary school on the Kateshi coffee estate. The school currently caters for 1,147 students from the surrounding villages.

In partnership with PEAS (Promoting Equality in African Schools), we have set up a primary and secondary school which offers schooling for all the pupils who come from the community at no cost. There are also dormitory facilities for some female students. With the Olam contribution PEAS built classrooms, sanitary facilities, water infrastructure, boarding facilities and a computer lab.

The school gives 527 students, of whom 283 are girls, access to free education. Three quarters of these are from families who live below the poverty line, and **nearly half** are orphans.



WOMEN EMPOWERMENT

Traditional gender roles in rural communities have inhibited opportunities for women in the workplace. Olam has been challenging these stereotypes by training women for what typically are considered male roles.

Over 35% of the permanent staff and two thirds of the management trainees are women. In addition, since 2016 over 80 women have trained and obtained their licences in tractor and commercial vehicle operation.

An independent social anthropologist has studied this initiative to conclude that women tractor drivers are the most advanced group when it comes to household budgeting, boosting village savings schemes and re-investing the most back into their own communities. This initiative has created pressure on traditional leadership to accept better gender equality and representation.



NURTURING WATER RESOURCES

In partnership with the Water Resource Management Authority and development organisations like GIZ and SNV, Olam reduces water risk and ensures drinking water security in the Chambeshi catchment area.

Olam also runs a daily drinking water distribution system supporting around 22,000 members of the community in and around the estate. This involves a tractor-drawn fleet of water distribution tanks supplying clean drinking water through village based dispensing units. This is expected to support local communities in maintaining surface water balance which can be accessed for domestic and agricultural uses.

The new water reservoir ensures constant water supply for both NCCL and neighbouring communities in the dry season. This supports local agriculture and has created new sources of income like fish farming.



IMPROVING HEALTH CARE

With a distance of often more than 30 kilometres to the nearest health post, healthcare for members of the 14 communities around Kateshi coffee estate was frequently out of reach. As a consequence, mortality rates caused by Malaria, other curable diseases and maternal delivery complications in the region were high.

To address this issue, Olam constructed and equipped a clinic on Kateshi coffee estate (including pharmacy and delivery room), which provides free access to basic healthcare for 4,120 community members with an average of 95 visitors per day.

Staff at the clinic estimate that 10 lives per month are saved by having the clinic (5 malaria, 4 delivery, 1 other).



To find out how you can partner in existing projects or help us establish new ones, turn to [Page 23](#).



AFFORESTATION PROGRAMME

Unsustainable forest use in the Northern Province of Zambia has led to soil erosion and land degradation. Communities witnessed the drying out of the Lukupa river in 2016 following drought-like conditions.

The afforestation programme offers community members access to sustainably produced firewood, and in doing so, protects and restores native ecosystems.

Over the past 3 years, we have planted 24.7 ha of indigenous forest with the establishment of a tree nursery to produce 50,000 indigenous tree seedlings.

Awareness programmes on sustainable land use, forest protection and the association with climate change further transform the region and create an understanding of our global ecosystem.



PROMOTING BEEKEEPING

The Zambian Forestry department estimates that 15% of trees in the catchment area of Kateshi are cut down in an unsustainable way annually for charcoal production. Beekeeping provides the economic interest for an increasingly aware local population to see forests as valuable bee habitats rather than a source of charcoal.

Olam has introduced associated programmes in its 5 coffee estates as demonstration models for setting up community-led apiaries. Several follow-up projects were initiated by the communities around the estates which showed us that the conservation approach is well received and supported by the local population.

The programme creates an additional source of income and nutritious food while at the same time increasing bee activity around the coffee estates.



DISTINCTIONS AND AWARDS

KATESHI

RED CHERRY SUNDRIED SPECIALTY NATURALS (GOLD):

First - Zambian National Taste Of Harvest

Second - Regional African Taste Of Harvest

SPECIALTY PULPED NATURALS (RED HONEY):

Second - Zambian National Taste Of Harvest

Fourth - Regional African Taste Of Harvest

ISANYA

SPECIALTY PULPED NATURALS (RED HONEY):

Second - Zambian National Taste Of Harvest

Fourth - Regional African Taste Of Harvest

NGOLI

RED CHERRY SUNDRIED SPECIALTY NATURALS (GOLD):

First - Zambian National Taste Of Harvest

Second - Regional African Taste Of Harvest

KATESHI



VARIETALS: CAT-129, F6, Castillo and Trial

ALTITUDE: 1,300 masl

PROCESS: Fully Washed, Natural, Anaerobic Natural and Honey

HARVEST: May - September

CERTIFICATION: UTZ, RA, 4C, Café Practices

TOTAL PRODUCTION (2020): 1,500 tons

SHIPMENT: September - April

AREA: 777 ha planted - 596 ha conservation area

Following the vision 'coffee after copper', the Zambian government supported the establishment of the coffee industry as a new and more sustainable circular source of income.

Kateshi coffee estate, as one of the first coffee estates in Zambia, was established in 1972 close to Kateshi village. Back then, its wet processing facilities represented the heart of coffee production in northern Zambia having been the central mill for all coffee produced in the region.

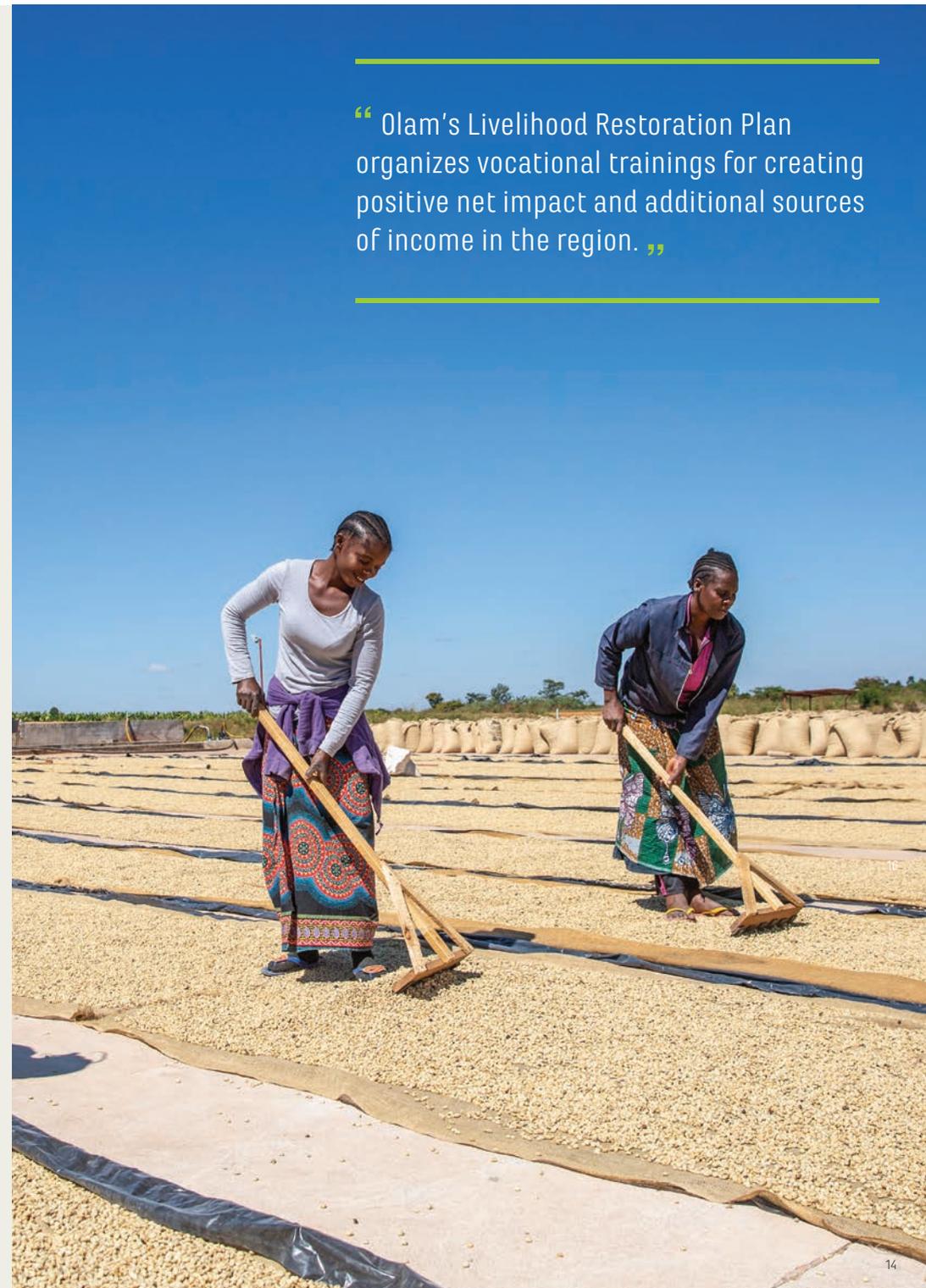
Sustainability is at the heart of our operations and we strive for excellent community relations and protection of our natural resources. Almost 600 ha of our land are protected forest area with high conservation value. Olam provides daily access to safe drinking water to over 20,000 villagers and supports 3 schools that provide over 1,500 students with primary and secondary education. Kateshi Estate is also the location of our clinic which serves the medical needs of

the surrounding community. Olam's Livelihood Restoration Plan further organizes vocational trainings for creating positive net impact and additional sources of income in the region.

Kateshi has been recognized for boldly challenging the gender stereotypes in Zambia, being the first and only coffee estate to employ women for traditionally male-dominated roles such as driving tractors and even larger equipment like road graders and bulldozers. A strong focus on gender equality makes this coffee directly contribute to the empowerment of women – and this is not restricted to the farm; the new found sense of independence and pride also spills over into the neighbouring communities.

In the true unifying spirit of football in Africa, Olam proudly sponsors a football team which has many players who are also gainfully employed at NCCL; the team now plays in Division 1 in the Zambia national league and goes by the name 'Kateshi Coffee Bullets'.

“ Olam's Livelihood Restoration Plan organizes vocational trainings for creating positive net impact and additional sources of income in the region. ”



“ Isanya has a unique place in world history as a place of peace. The last shot of World War 1 was fired close to the estate and all weapons were destroyed close to lake Chila. ”



ISANYA



VARIETALS: CAT-129, Java, Trial

ALTITUDE: 1,630 masl

PROCESS: Fully Washed, Natural and Honey

HARVEST: May - September

CERTIFICATION: UTZ, RA, 4C, Café Practices

TOTAL PRODUCTION (2020): 1,200 tons

SHIPMENT: September - March

AREA: 500 ha planted and irrigated, 565 ha conservation area and buffer zones

Isanya in the local language of the peaceful Luonga tribe means 'great plane on a mountain'. This picturesque farm is located between lake Chila and Mount Nsunzu with a history reaching back to the early 20th century.

In the year 1918, a British pilot crashed on the estate and fell in love with the nurse who saved his life in the local hospital. After marrying, the couple decided to start farming the fertile lands. Originally growing food crops for the local market, Isanya planted its first coffee in 1980 alongside maize and has gradually migrated to 100% coffee production.

Isanya has a unique place in world history as a place of peace. The last shot of World War I was fired close to the estate and all weapons were destroyed at lake Chila after the Germans surrendered to the British in 1918. This event is deeply rooted in the awareness of the local population and in 2018 the entire region celebrated the 100th anniversary of this event with a big ceremony.

Isanya's coffee is processed in an on-site wet mill and kept for 6 weeks in wooden silos for conditioning. To assure the highest possible quality, parchment is then transported a short distance to the Kateshi dry mill to be prepared for export.

NGOLI



VARIETALS: CAT-129, F6, Castillo and Trial

ALTITUDE: 1,400 masl

PROCESS: Fully Washed, Natural and Honey

HARVEST: May - September

CERTIFICATION: UTZ, RA, 4C, Café Practices

TOTAL PRODUCTION (2020): 560 tons

SHIPMENT: September - March

AREA: 262 ha planted and irrigated, 91 ha buffer zone and conservation area

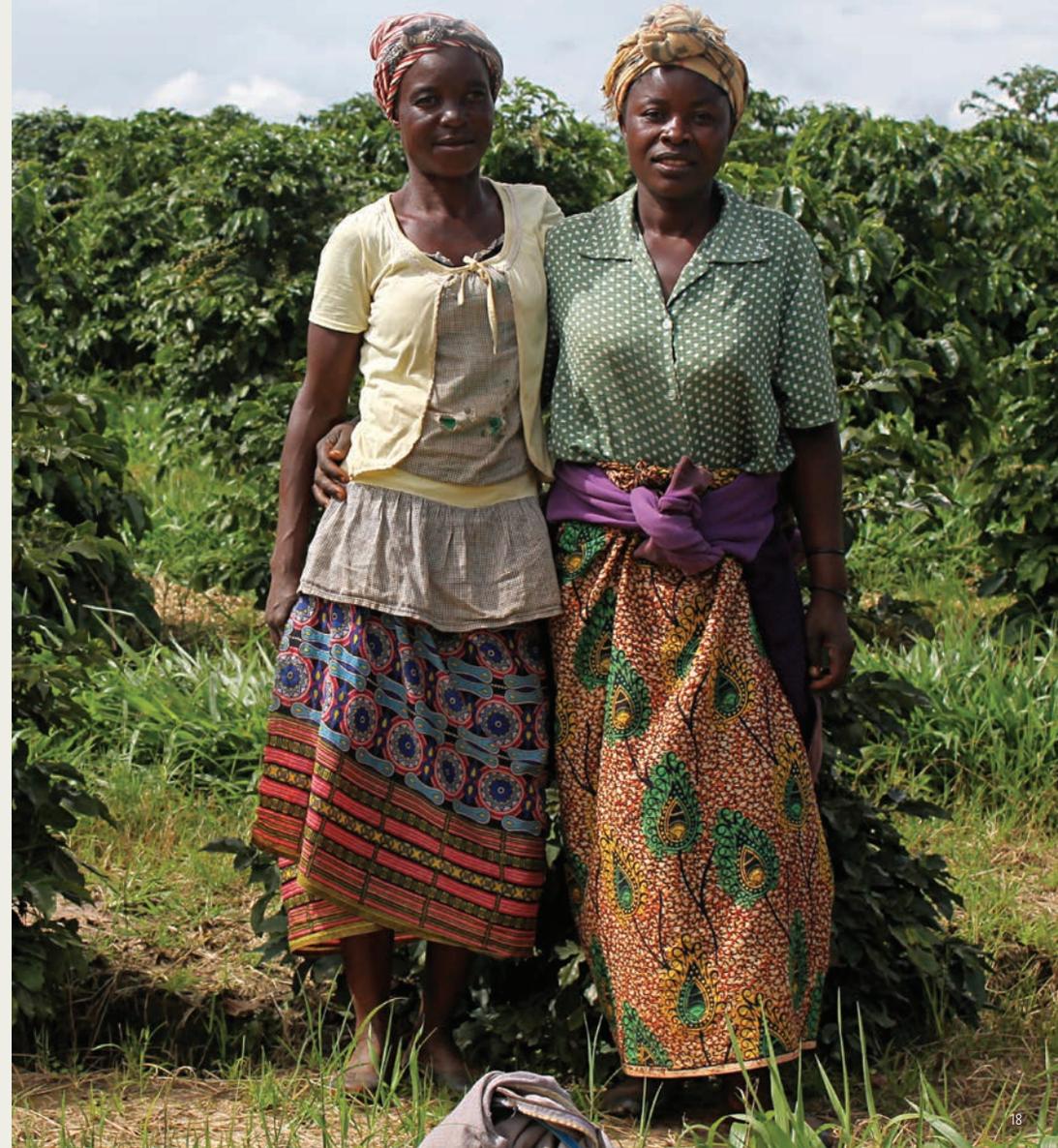
Established under the aegis of the World Bank, the first coffee tree in Zambia was planted at Ngoli in 1972. Coffee was seen as an alternate agri-supply chain in Zambia that supported the economy to move away from the extractive copper industry.

A spiritual sanctuary is located and carefully protected on the Ngoli Estate. In the indigenous culture it is believed that the souls of all Bemba chiefs are buried in this sacred place and find their eternal peace here. Indigenous community members use this sanctuary to consult the spirits of the wise ancient chiefs and as a place for spiritual retreat. The estate has maintained an excellent relationship with the local community.

By respecting ancient traditions, NCCL operates in close collaboration with the indigenous communities who in turn lend their support to the estate participating in the production of its fine coffees. The estate benefits from pure underground spring water used for both irrigation and post-harvest washing.

As with the other estates, the main varietal on Ngoli is Cat 129, also known as Nyika. It is a high yielding dwarf variety resistant to coffee leaf rust and coffee berry disease, found commonly in Malawi, Zambia, and Zimbabwe. It is a selection of a Catimor breeding line from Colombia and was introduced to Africa in the 1970s via Kenya.

“ The estate benefits from pure underground spring water used for both irrigation and post-harvest washing. ”





“ We are developing programmes of beekeeping, afforestation and eco-system conservation on Loumbe Estate ”

LUOMBE



VARIETALS: CAT-129, Java, Trial

ALTITUDE: 1,350 – 1,450 masl

PROCESS: Fully Washed, Natural and Honey

HARVEST: May - September

CERTIFICATION: UTZ, RA, 4C, Café Practices

TOTAL PRODUCTION (2020): 435 tons

SHIPMENT: September - March

AREA: 272 ha planted and under irrigation, 126 ha buffer zones and conservation area

Luombe is located in a unique natural environment and surrounded by well-preserved forest. This habitat hosts exotic animals like the protective Black Mamba, Guinea Fowl and various species of monkeys ranging from the white footed Tamarin to Baboons.

Luombes nutrient-rich sandy loam soils provide the perfect ground for our coffee. The balanced mix of clay and sand ensures an optimal water holding capacity without obstructing the underground water flow. Surrounding hills channel the underground water directly to these soils which then store and release it to the coffee trees.

In addition, Luombe hosts the spiritual sanctuary of the ChiBemba tribe. This sacred place is said to be home to spirits of wise ancestors who are protected by Black Mambas. Twice a year the indigenous spiritual leaders come together on this sacred land to consult the ancient souls.

We are developing programmes of bee keeping, afforestation and eco-system conservation on Loumbe Estate. By trialling innovative integrated pest management, we find new ways of producing coffee with a minimal impact on surrounding ecosystems.

NSUNZU



VARIETALS: CAT-129

ALTITUDE: 1,400 - 1,650 masl

PROCESS: Fully Washed, Natural, Honey and Anaerobic

HARVEST: May - September

CERTIFICATION: 2021: UTZ, RA, 4C, Café Practices

TOTAL PRODUCTION (2020): 560 tons

SHIPMENT: May - September (main crop)

AREA: 347 ha increase max to 400 ha (cleared), 1,500 ha buffer zones and conservation area

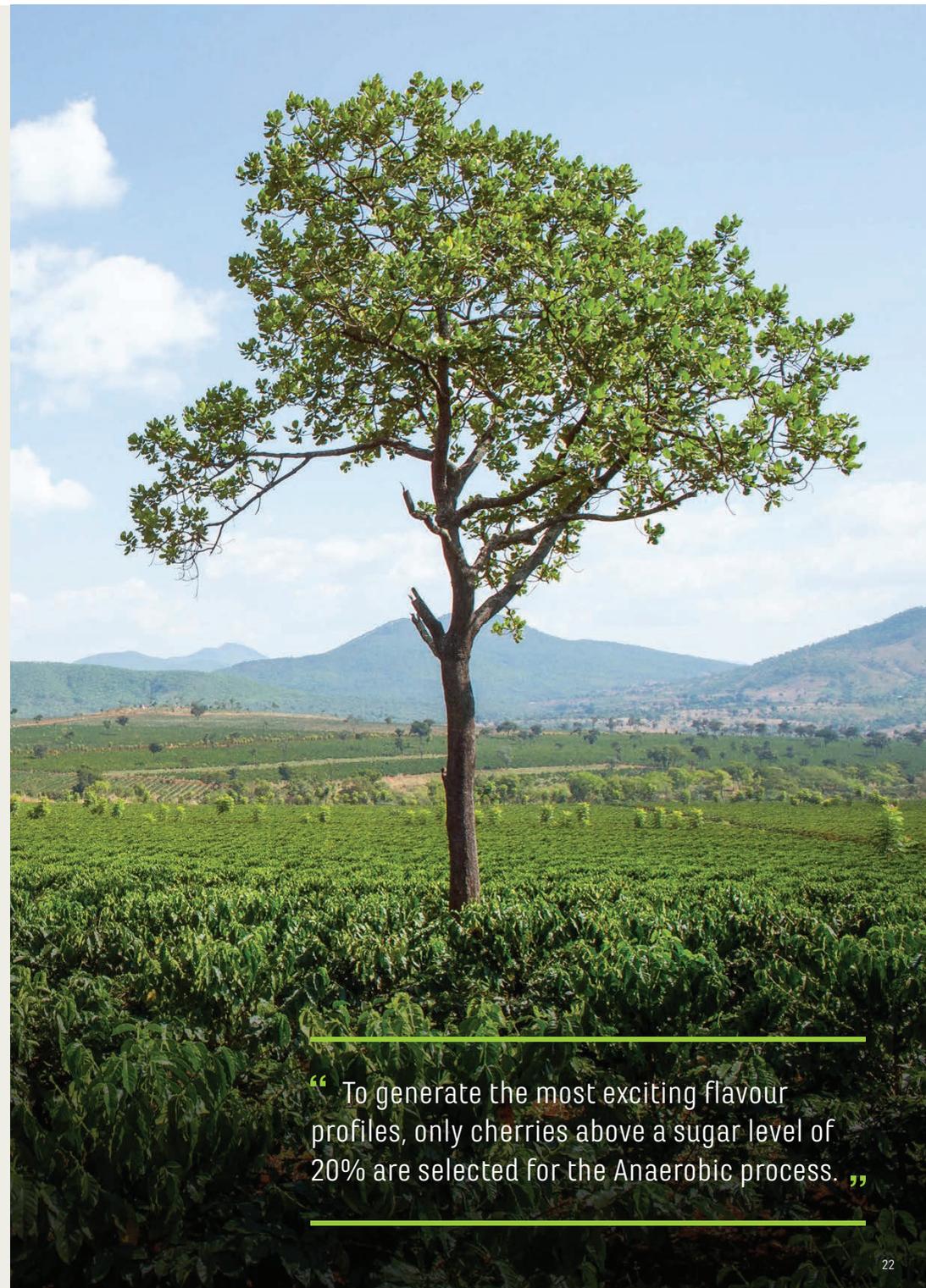
The youngest of the NCCL coffee estates, Nsunzu is located at the foot of picturesque Mount Nsunzu which is one of the biggest landmarks in Northern Zambia. Stunning rock formations make this one of the most beautiful coffee estates in the world.

In addition to the breathtaking environment, this region boasts various ancient civilisations who -independently from the European iron age - developed an iron age of their own that made use of the colourful ferrous soils. The first full crop from Nsunzu will be harvested in 2020 and there is plenty of scope for further expansion.

Anaerobic fermentation trials on Nsunzu involve carefully controlled fermentation in completely sealed plastic containers which ensures truly anaerobic conditions. We have trialled various lengths of fermentation from 12 hours to 72

hours, currently finding that the best results in the cup are found after 24 hours. To generate the most exciting flavour profiles, only cherries above a sugar level of 20% are selected for this unique process. After fermentation we spread the cherries on drying beds giving each cherry the necessary space for an optimal drying process of 8-15 days.

Even though Nsunzu and the other estates have the potential for mechanical coffee harvesting, we deliberately decided to harvest by hand. This labour-intensive process allows for a more careful selection of only the reddest cherries which maximises the rich flavour profiles. In addition, NCCL as the largest employer in the country remains committed to providing employment in a region where sources of paid labour are extremely scarce.



“ To generate the most exciting flavour profiles, only cherries above a sugar level of 20% are selected for the Anaerobic process. ”

OPPORTUNITIES TO ENGAGE WITH AND ENHANCE THE REGION

In addition to the projects we are already supporting, we have a myriad of opportunities to invest in the Northern Zambia communities and would love to partner with our coffee buyers to increase our positive impact.



HOW DOES IT WORK?

- You simply pay a small premium on the coffee price and choose the initiative you want to support from those listed on the following pages
- We always welcome visits to the estates, and would encourage you to visit any initiative you support
- If required, we can support you in developing a marketing campaign based on the supported initiatives. Varying monthly support schemes possible
- We are also open to the discussion and development of new initiatives. Your ideas are more than welcome

The following pages outline some of the opportunities to get involved.



IMPACT: ECOSYSTEM RESTORATION

Community-based planting of indigenous trees and inclusive information campaigns help restore the high biodiversity ecosystems in the Lukupa river catchment and its vital services to the local population.

PROJECTS

- Planting of indigenous trees on deteriorated land in the Lukupa river catchment area
- Establishment of community-based tree nurseries and woodlots
- Information campaigns and trainings on sustainable resource use in agriculture and consumption



“ The Lukupa river was the source of life in our region until it almost dried out in 2016 because people started farming closer and closer. ”

Memory Mwansa
Lives close to the Lukupa River

RELEVANCE

Due to unsustainable farming and forest use practices, 200 ha of high value conservation area have been destroyed in the Lukupa catchment area in Northern Zambia.

This almost dried out the Lukupa river and strongly limited the supply of other ecosystem services like the provision of clean water, timber and biodiversity.

IMPACT

Forests are an important retreat for animals and store large amounts of CO².

An intact forest filters water and conserves it in its root structure. The stored water presents an important supply of clean water for local communities and their agriculture.

Protecting and restoring the native ecosystems around Lukupa river, helps to guarantee access to water, capture CO² and conserve biodiversity.

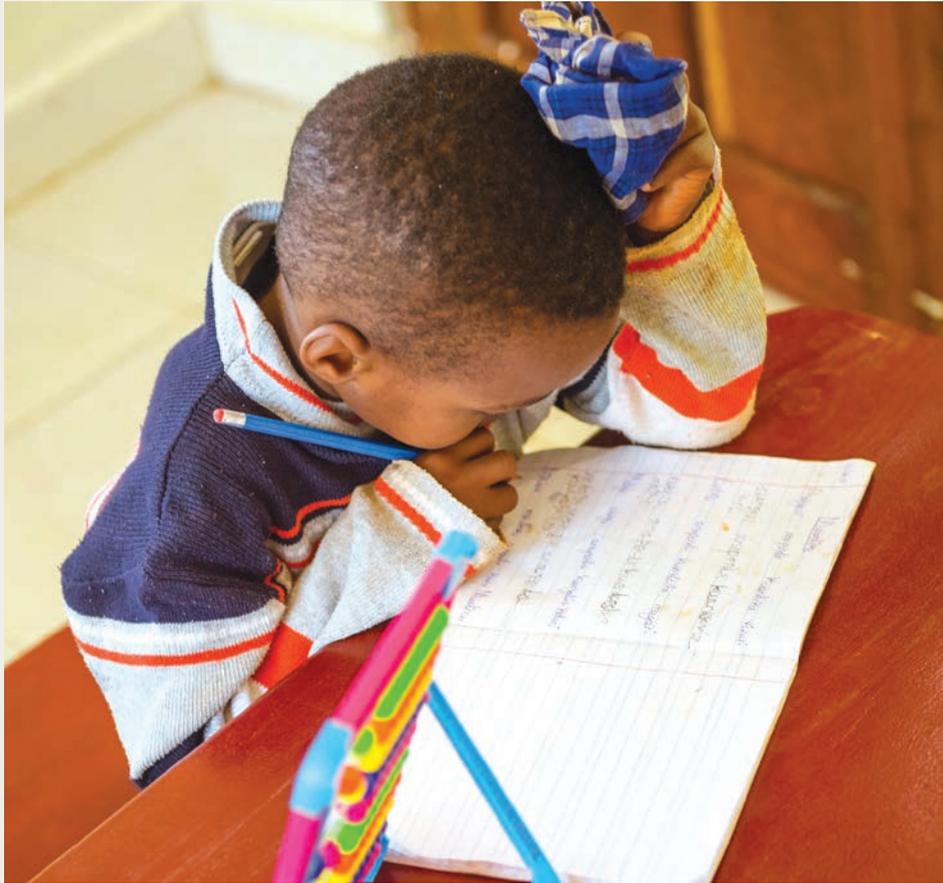
COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
Engage 5 villages	\$1,000	2.3	10 communities	20 communities	All villages
Restore 1 ha ecosystem	\$1,000	2.3	2 ha ecosystem	4.5 ha ecosystem	22.7 ha ecosystem
Establish 1 nursery + woodlot	\$500	1.1	5 nurseries	10 nurseries	All nurseries
10 ha, 10 villages, 1 nursery	\$12,500	26.4			20 ha, 20 villages, 2 nurseries

TOTAL REQUIREMENT: 200 ha ecosystem, 28 woodlots and 50 villages.

💰 COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
Monthly financial support school	\$500	1.15	4 months	9 months	3.6 years
Build sanitation facility	\$8,500	19.57			2 facilities
Computer lab (per computer)	\$500	1.15	4 computers	9 computers	1 computer lab
Build and equip a library	\$10,000	23.02			2 libraries
Water infrastructure (well)	\$4,500	10.36		1 well	4 wells

TOTAL REQUIREMENT: 4 schools, 40 computers per school, 1 library and 1 well.

IMPACT: IMPROVE EDUCATION



IMPACT

By supporting local schools, you directly impact the education of children in rural communities who are often at a disadvantage in the local labour market.

Primary and secondary schools in Northern Zambia are often underfinanced which disadvantages children and drives inequality. Supporting these schools directly improves education and creates opportunity for children from rural communities.

Improving the sanitation infrastructure reduces the drop out rates of girls in secondary education and supports gender equality during and after education.

PROJECTS

- Financial support for operational needs of local primary and secondary schools
- Improve facility infrastructure (e.g. sanitation facilities, classrooms, water)
- Establish a computer lab
- Establish a library
- 'Adopt a school' possible

RELEVANCE

Due to insufficient governmental support, educational institutes in rural Zambia depend on other stakeholders and additional funding to provide decent education.

A lack of IT infrastructure strongly disadvantages children from rural communities by limiting their access to the digital world and higher education. In addition, young girls often don't finish secondary school because of a lack of adequate sanitary facilities.



“ Educated children create better lives, not only for themselves, but for their entire families. ”

Frazer Mwamba
Voluntary teacher



IMPACT: MEDICAL SUPPORT

Local clinics provide access to medical services for a large part of the rural Zambian population who would otherwise not be treated. This infrastructure dramatically reduces mortality caused by treatable diseases which is supported by other local health programmes.

PROJECTS

- Financial support for rural health care centres
- Improve basic infrastructure and medicine stock
- Health awareness days: HIV/AIDS, Malaria, Malnutrition, Diabetes, Cancer



“ Most people coming to us cannot afford health insurance - so everybody gets the support they need free of charge. ”

Bwalya Chileshe
Nurse at Kateshi Clinic

RELEVANCE

Due to insufficient medical infrastructure in rural Northern Zambia, mortality rates caused by treatable diseases and other medical emergencies as well as maternal mortality are high.

Villagers need to travel distances of up to 50 km to access medical care and therefore de facto have no access to health services. Rural clinics are chronically underfunded by the government which results in poor equipment and medicine stocks.

IMPACT

By supporting medical centres you can directly improve rural life expectancy and reduce mortality caused by treatable diseases.

This benefits entire social landscapes. Rural health care centres have a catchment area of usually more than 4000 people from more than 10 communities.

COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
Monthly financial support	\$500	1.15	4 months	9 months	3.6 years
Build and equip pharmacy	\$8,500	19.57			2 pharmacies
Nurse housing	\$8,000	18.42			1 housing units
Build delivery room	\$10,000	23.02			2 delivery rooms
Rural ambulance (motorbike)	\$5,000	10.36		1 ambulance	4 ambulances
Child health week	2,000	4.6	1 health week	2 health weeks	
Health day (per disease)	1,000	2.3	2 health days	4 health days	

TOTAL REQUIREMENT: 3 Clinics covering communities across 5 estates.
4 health weeks per year per clinic.

💰 COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
1 month water supply for 1 community	\$500	1.15	4 months	8 months	3.6 years
Well plus management plan for 1 community	\$4,500	10.36		1 well	5 wells
WASH training (twice per community)	\$1,000	2.3	2 communities	4 communities	10 communities

TOTAL REQUIREMENT: 24 communities and 24 wells.

IMPACT: ACCESS TO WATER

RELEVANCE

Access to clean drinking water is one of the major challenges in the rural communities of Northern Zambia.

Many of the water sources are polluted by unsustainable resource use and farming practices in water catchment areas. Waterborne diseases therefore are among the most frequent causes for illness and death – especially amongst children, elderly and pregnant women.

Providing access to clean drinking water and water management trainings help to improve water security and prevent waterborne diseases like Cholera which are a major threat to health in rural communities.

PROJECTS

- Provide clean drinking water to community members around the coffee estates
- Establish water supply infrastructure and sustainable use strategies in communities
- Trainings in water, sanitation and hygiene management (WASH)

IMPACT

Access to clean drinking water has a direct impact on health and quality of life.

Waterborne diseases can be reduced from which especially the vulnerable in communities benefit. Provision of drinking water bridges the gap until sufficient water infrastructure is installed and resource use practices have been improved.



“ Without the supply of clean drinking water, most of the villagers would have to drink water from the river or would not have access to water at all. ”

Harriet Munyenembe
Supplies water to villages



IMPACT: IMPROVE FOOD SECURITY

Promoting sustainable farming practices can improve food security by increasing access to healthy food. At the same time, better farming practices have the potential to reduce pressures on local ecosystems and help in climate change mitigation.

PROJECTS

- Trainings in Good Agricultural Practice (GAP)
- Establish demo plots for GAP
- Provide farming tools and inputs to farmers around the coffee estates



“ There are plenty of fertile soils around the coffee estates. Improving production techniques can increase yields and help people not only to produce their own food, but also to sell it. ”

Ian Mwinga
Management Trainee

RELEVANCE

Even though fertile land is available in most parts of Northern Zambia, production levels and diversity of production are low.

Many people in rural areas suffer (paradoxically) from malnutrition and undernutrition. This is mainly due to a lack of knowledge in sustainable and efficient farming practices. Many of the current smallholder production systems create a severe pressure on local ecosystems (deforestation) and can be improved with low cost measures that are easy to implement.

IMPACT

Providing trainings and tools for productive and sustainable agricultural production can directly increase food security around the coffee estates.

Farmers are willing to innovate and improve their production and can be supported easily and effectively with knowledge on how to better manage their crops.

COSTING DETAILS



OBJECTIVES	COST	•CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
1 year community GAP (4 Trainings)	\$4,000	9.21		1 community	5 communities
Demo plot for conservation agriculture	\$5,000	11.51		1 demo plot	4 demo plots
50 farmers supported with subsidised farming tools	\$2,000	4.6	54 farmers	108 farmers	543 farmers
Employ agronomist for 1 year	\$6,000	13.81			3.6 years

TOTAL REQUIREMENT: 5 demo plots per estate, 24 communities.

💰 COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
Train and equip 10 nutrition champions around coffee estates	\$1,000	2.30	21 nutrition champions	43 nutrition champions	215 nutrition champions
Establish a nutrition demonstration centre	\$5,000	11.51		1 centre	4 centres

TOTAL REQUIREMENT: 1 demonstration centre and 20 nutrition champions per estate.

IMPACT: IMPROVE NUTRITION



RELEVANCE

Malnutrition is a common, yet unnecessary phenomenon in Northern Zambia and has severe consequences on health and well-being - especially for children.

An unbalanced diet during childhood and adolescence impairs cognitive development which strongly disadvantages the rural population. Malnutrition is also dangerous in adulthood, as it reduces tolerance to illnesses and hampers physical and cognitive performance. With a huge potential diversity in crops growing in Northern Zambia, malnutrition can be eliminated with the necessary awareness.

IMPACT

Training local women to become real life 'influencers' for a healthy and nutritious diet has the potential to dramatically reduce malnutrition.

Making use of indigenous vitamin-rich vegetables, supports local food systems and reduces inequalities caused by a lack of access to nutritious crops. Training local nutrition champions opens doors of households and can impact a large part of the population.

Even though soils are good in Northern Zambia and can produce the necessary variety of healthy food needed by humans - especially children - the rural population suffer from malnutrition with devastating effects. Awareness campaigns and the training of local nutrition champions help to provide access to nutritious diets based on local crops.

PROJECTS

- Train rural women as 'nutrition champions' who actively promote a balanced diet and give advice to local households
- Establish nutrition demonstration centres and provide hands-on trainings



“ Nutrition champions know about appropriate use of local crops for preparing nutritious meals and bring this knowledge right into the communities. ”

Estella Chisanga
Nutrition Champion 2019



IMPACT: FARMER DAYS

Annual Farmer Days provide space to showcase production and exchange knowledge about productive and sustainable farming practices. Related competitions reward the most productive farmers and incentivise an increase in quantity/quality of production and innovation.

PROJECTS

- Organise farmer days that bring together hundreds of farmers and demonstrate results of good farming practices
- Agricultural innovation competitions to encourage rural innovation



“ Farmer days create a unique opportunity for local farmers to exchange knowledge and access new markets. Farmers love it! ”

Joseph Chewe
Agric team

RELEVANCE

Subsistence farming is the main source of food and income in most communities of rural Northern Zambia.

Production levels are low mainly due to insufficient knowledge on productive and sustainable farming techniques and post-harvest crop preservation. Knowledge and good ideas often exist but are not shared. Farmers further lack access to agricultural input markets which locks the yield potential of production.

IMPACT

Farmer days provide the perfect platform to network knowledge and get inspired by fellow producers.

The scattered knowledge on productive and sustainable farming can be connected and utilized better which potentially benefits the entire region. Innovation and quality competitions encourage farmers to constantly improve production.

COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
Organise a farmer day	\$5,000	11.51		1 farmer day	4 farmer days
Innovation competition	\$1,000	2.3	2 competitions	4 competitions	21 competitions
Full package (farmer day and competition)	\$6,000	13.81			4 farmer days including competition

TOTAL REQUIREMENT: 1 farmer day per year/per estate (5).

💰 COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
Womens day celebration	\$5,000	11.51		1 womens day	4 womens days
Women entrepreneurship award	\$1,000	2.3	2 awards	4 awards	21 awards
Full package (womens day celebration and entrepreneurship award)	\$6,000	13.81			3 full packages
Gender equality training (per community)	\$1,000	2.3	2 trainings	4 trainings	21 trainings

TOTAL REQUIREMENT: 24 communities growing to 30 by 2021.

IMPACT: WOMEN EMPOWERMENT



RELEVANCE

Even though much of the productive work in rural communities is done by women, they often don't get access to the necessary resources and opportunities to fully develop their potential.

Often widowed, they form a disadvantaged group that is generally overcharged with work and under-equipped with resources. Their crucial role in society, however, bears the potential to kickstart sustainable development in rural communities.

Women are the often disadvantaged backbone of the rural communities in Northern Zambia. Empowering this strong part of society and strengthening their position unlocks a huge potential for positive development.

PROJECTS

- Women day celebration events
- Women innovation award: encourage entrepreneurial thinking among women in the local communities
- Gender equality trainings for whole households and villages

IMPACT

Empowering rural women by encouraging them to develop innovative business ideas and supplying them with the necessary tools to implement their ideas unlocks an underestimated potential for development in entire communities.

Womens innovation awards encourage using this untapped dynamic energy to further develop communities.



“ The award changed my life. After receiving it 4 years ago, I could expand my production and send all my kids to school. I could even buy a motorbike last month! ”

Joanne Sampa Kangua
Award winner



IMPACT: VILLAGE DEVELOPMENT FUND

This community-based development initiative strengthens rural communities by fostering bottom-up decision making. Decisions on community investments are taken democratically by those who know best what they need.

PROJECTS

- Provide financial support for Village Development Committees (VDCs)
- Provide project development training to VDC members
- 'Adopt a committee' possible



“ Village development funds have empowered many communities to follow their individual path of development. For us, this is the best way to engage with communities because community members know best what they want! ”

Melvin Lwindi
Estate manager Kateshi

RELEVANCE

Decisions on development projects are often structured top-down which hampers the creation of ownership.

Those who generally know what is needed most and what has the greatest impact on livelihoods and well-being, are the community members themselves. Village development committees (VDCs) are democratic organs which are inter-connected and develop proposals for investments with the maximum impact on communities.

IMPACT

This bottom-up approach to community development potentially creates the highest possible impact on rural lives.

Exemplary and successful projects that were already developed by VDCs around the coffee estates are: building of a hammermill, creation of water supply infrastructure, construction of a school, a goat rearing project and horticulture production.

COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
Fund 1 VDC project	\$4,000 +	9.21		1 VDC project	5 VDC projects
Project development training	\$1,000	2.3	2 trainings	4 trainings	21 trainings
Full package	\$5,000	11.51			4 full packages

TOTAL REQUIREMENT: 8 VDC's, 2 projects and 1 proposal training per VDC per year.

💰 COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
10 beehives and training (4 Trainings)	\$2,000	4.61	10 beehives	21 beehives	108 beehives
Establish bee-village (50 hives per village)	\$8,000	18.42			2 villages

TOTAL REQUIREMENT: 50 hives per village, 24 communities.

IMPACT: BEEKEEPING



RELEVANCE

Sources of income and access to nutritious food are generally scarce in Northern Zambia.

Beekeeping is a cost effective solution that requires only few resources. Local bee species are used to colonize the provided bee hives which eliminates the risk of invasive species.

After acquiring the necessary training, maintenance costs are low and bees produce honey with little support. Next to honey, bees produce other natural products like beeswax, propolis, pollen and royal jelly.

IMPACT

Beekeeping is a low cost and very effective way to provide nutritious food, new sources of income, and improve pollination.

The acquired skills are easy to learn and create ecological awareness about ecosystems and their functioning.

Bees are among the most important pollinators and therefore guardians of biodiversity. Providing bee hives and the necessary training to the local population creates a triple win situation for nature, people and the local economy.

PROJECTS

- Provide bee hives and the necessary training to local communities
- 'Adopt a bee hive' option available



“ Beekeeping supports the local population with an additional source of income and nutritious food, while at the same time encouraging entrepreneurial thinking. ”

Doreen Sichone
Management trainee



IMPACT: SUPPORTING LOCAL FOOTBALL

Supporting the local football clubs directly increases quality of life around the coffee estates. Children growing up in rural Zambia often have very limited access to activities that help them develop healthy hobbies. By fostering these opportunities you can create hope and fun not only for the players, but for the entire communities who support their teams.

PROJECTS

- Become a sponsor of new football teams and support the local youth with football training and transport to matches
- Provide new equipment to football teams
- Establish a football field and change hundreds of lives



“ Football gives us the opportunity to compete and strive for physical fitness. Everybody here loves football and winning a match brings pride to us and our entire families! ”

Peter Luo
Member of Kateshi Coffee Bullets

RELEVANCE

Social infrastructure in rural Northern Zambia is highly underdeveloped.

There often are no activities available that challenge youngsters and help them develop a healthy competitiveness. The absence of such activities nourishes alcoholism and other addictions.

After the short appearance of Zambia on the world football scene, the country disappeared again with the tragic death of the national team in a plane crash 1993. Everyone loves football and with the necessary training of young talent, the Zambian nation looks forward to making a come back.

IMPACT

The Kateshi Coffee Bullets (current football team on Kateshi coffee estate) is one of the best teams in the Zambian amateur league.

Many more young talented players around the NCCL coffee estates want to follow a new healthy passion. Creating the opportunity to play football in an organized framework creates hope and can change lives.

COSTING DETAILS



OBJECTIVES	COST	+CT/LB(FCL)	5 CT/LB	10 CT/LB	50 CT/LB
1 month training and transport to matches	\$300	0.69	7 months	1 year 2 months	5 years 10 months
New equipment	\$800	1.84	2 teams	5 teams	27 teams
New football field	\$10,000	23.02			2 football fields

TOTAL REQUIREMENT: 2 teams per estate, 5 estates.



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