



haller
releasing potential

Fondation Eagle Project Final Report - FF699 December 2024

Strengthening Haller's Infrastructure, Education & Training Capabilities

Date of Acceptance: 6th December 2023

Donation Amount: £29,125

Project Duration: January 2024 – December 2024

Number of Beneficiaries: **6,810** in first year

130+ Haller farmers trained in innovative techniques, with av. families of 8, 3,500+ farmers by upgrading app & training manuals, 970+ school open day attendees, 1,306+ Nguuni youth health education

Location: Kisauni District, Mombasa, Kenya
S 03° 59' 35.7" E39° 41' 45.4"

Project Description

This multi-faceted project delivered improved access to innovative agricultural training, with a focus on Kenya's youth. The persistent challenges of shifting climate patterns & a legacy of unsustainable farming practices have increased the need, particularly with temperatures projected to rise faster than the global average, across much of Africa. By engaging and empowering the young population to view agriculture—Kenya's primary economic activity—as a viable and rewarding career we hope to ensure future food and water security in the region.

By using technology to strengthen resilience against climate challenges, we focused on upgrading our app, enriching its content, and enhancing Haller's farmer training manuals. By sharing our innovations, with open access to these digital tools, and by promoting expertise in community-led initiatives, we have equipped farmers—both young and experienced—with the tools they need to help thrive in harmony with nature, using the Haller community development model as the core knowledge resource.

Project Elements

The project comprised 4 constituent parts, aimed at strengthening and improving education and training capabilities by :-

1. **Improving security & enhancing food production systems** & smallholder farmer training at the Demonstration Farm (DF), widening the scope of agricultural training through innovation
2. **Introducing dedicated School Open Days** at the DF, to further support agricultural learning, emphasising the app as a learning tool, to complement the national curriculum & encourage organic farming livelihoods
3. Enhancing & **expanding Haller's Youth Health Education Facilities** at Nguuni to better serve the heavy footfall, by offering health education & counselling sessions for the first time
4. **Upgrading the Haller Farmers app & Haller's physical farmer training manuals** making them accessible, current & relevant to trainers, learners & partners to scale impact & foster meaningful change on a wider scale

Project Completion

1.The Demonstration Farm

Throughout the year, a 6-person security team were employed, from the Orma people of the Tana river region (to ensure no local tribal loyalty), to provide 24-hour security at all of Haller's hubs in the region, to deter further thefts. The team will continue to run in parallel with the new security system, given the economic situation locally.

Re the security system, delays were experienced sourcing & awaiting delivery of parts from overseas, but the technicians have recently finalised installation. The new solar system has security cameras, solar sensor lights & infrared sensor beams. The solar batteries have a much-improved depth of discharge and twice the capacity of the old, as technology moves apace with each upgrade. Haller Kenya are now sourcing an environmental method of recycling the old, to tie in with our sustainable ethos. Appropriate signage has been installed to deter opportunists.



Replacement well pumps and security cages were purchased & installed, robust prototypes of both the chicken & guinea fowl coops & back-yard solar powered fish farming system were constructed, and all are being actively used in the DF for training purposes. A programme of comprehensive training has taken place through the year, and farming champions from selected communities have been trained in both back-yard poultry rearing & fish farming, with the aim of improving food security with community driven initiatives, providing extra protein in diets, with hopefully a surplus for sale.

15 training sessions have educated **130 members**, 106 women & 24 men, from **5 CBO's** in the area. The attending "farming champions", who play a pivotal role in the success of our projects, have returned to their CBO's to pass on their knowledge & encourage peer-to-peer training, & the mentoring of their fellow farmers. **Two needy CBO's** were also selected to receive a complete poultry unit (newly built coop & 5 chickens), as well as fingerlings to stock their community fish ponds. Both are being visited regularly to monitor progress & provide support where necessary.



2.School Open Days

The aim of introducing these targeted events was to engage and educate the next generation of Kenyan farmers. They were a huge success with a great turnout for both School Open Farmers Days, hosted at the DF on the 17th May & 20th September. The events targeted both primary & secondary schools with the theme "Empowering Youth with Practical Skills in Organic Agriculture & Technology". **Sixteen local schools visited & 740 attendees** absorbed facts, with amazing displays & demonstrations on topics such as family fish ponds, composting, livestock husbandry, the 500m2 plot & the Haller Farmers app. There was great feedback from both students & staff with re-visits by **230** students, to further educate them in the techniques demonstrated.



Baobab Trust | The Haller Foundation

SCHOOLS OPEN FARMERS DAY

Empowering Young Generation with practical innovative skills in Organic Agriculture and Technology

Mtopanga Farm, Bamburi

Friday, 17th May 2024

8.30 am - 3.30pm

Tel. 0724271510 | 0722390421

No Entry Fee





3.Youth Health Education

Youth Health Education Jan 2024 – Dec 2024	
No. of Sessions	55
No. of Schools	19
No. of School Students	1,004
No. of Library Members	302
Total Participated Students	1,306

The aim was to upgrade the facilities at Haller’s current auditorium, to enable the introduction of health education training to the heavy footfall of schoolchildren attending the Nguuni Health Clinic & Education Centre.

The recently renovated Nguuni Nature Pavilion, with its new equipment, has been the location for this series of health education talks for the local

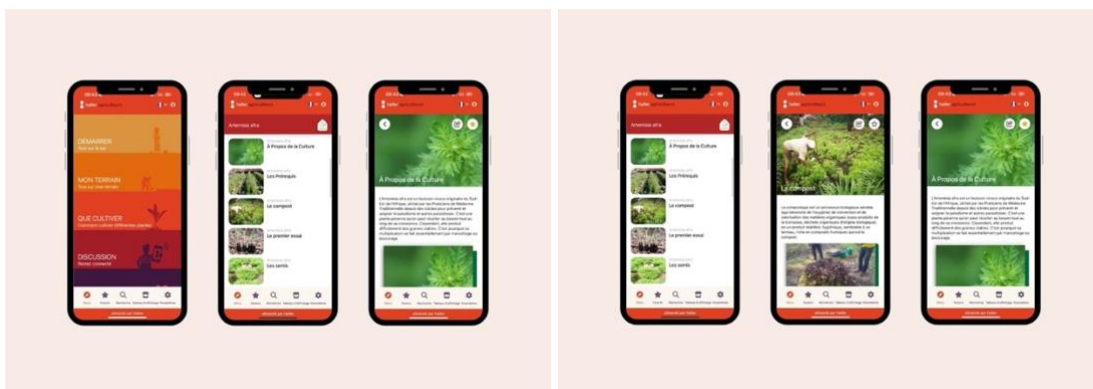
youth of the area. The new programme, devised by both the Haller Librarian & Nurse, has been such a success with great attendance – with **over 1,300 children** participating, that Haller staff believe it should continue.

The programme has had a great impact on the lives of local schoolchildren, fostering an increased awareness & understanding of the interconnectedness of health & nature. Children have been educated, for the first time, in concepts related to both physical & mental health, personal hygiene, self-care & basic first aid, combined with spending time in nature & enjoying educational & team-building activities. Breathing exercises, anger management, self-affirmation, confidence & nutrition have all featured in the tailored exercises.



4.Haller Farmers app

The Haller Farmers App underwent a significant transformation in 2024, culminating in the launch of an updated version in September on both the Google Play Store & App Store. This major milestone was made possible through your funding, the innovative wireframes provided by JP Morgan's *Force for Good* programme & the technical expertise of Steepsoft AI. The app now offers enhanced functionality, improved user experience, and multilingual support in English, Swahili & French.



One of the most impactful additions is the integration of content from La Maison de l'Artemisia, a global network dedicated to combating malaria through the use of the medicinal plants *Artemisia annua* and *Artemisia afra*. Together with La Maison de l'Artemisia we have translated the app into French & contributed valuable insights about these plants, known for their potential to alleviate and treat malaria symptoms.

This expanded content enables the app to reach beyond Haller's physical footprint in Mombasa, empowering 130 delivery partners supported by La Maison de l'Artemisia across 28 countries. By providing smallholder farmers with essential agricultural and medicinal knowledge, the app now serves as a critical tool for sustainable farming and healthcare across Francophone Africa and beyond.

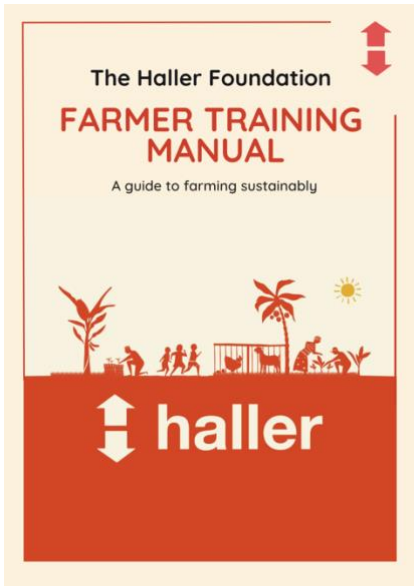
"Haller offers an innovative approach to sharing information and connecting multiple communities. By bringing digitalisation to countries where digital services often receive limited attention, the potential of app development extends beyond creating functional tools; it reshapes how we transfer knowledge and interact with one another. We are thrilled to be part of Haller's journey, empowering their application with technology that drives progress and transforms creative visions into reality."

Zoltan Gyulai, Co-founder of Steepsoft

"With 570 million smallholder farms globally, these farmers are responsible for up to 34% of global food production but face significant technological and financial challenges. In sub-Saharan Africa, smallholder farmers are even more critical, providing up to 80% of the food supply. This partnership is vital in addressing these setbacks by making sustainable farming techniques and medicinal plant knowledge more accessible to more than 200 million Francophone farmers."

Dr Lucile Cornet-Vernet, Founder of La Maison de l'Artemisia

Farmer Training Manual



Throughout 2024, Haller Kenya & Haller UK have collaborated to modernise and enhance our farmer training manuals. This weighty initiative has converted the manuals into engaging, accessible & practical documents, adopting a *training of trainers* approach to empower current and future partners to incorporate the resources into their own sustainable projects and operations. The task involved a comprehensive review and expansion of existing content, with topics such as organic & integrated farming, beekeeping, fish farming, field crops, vegetable cultivation & poultry keeping being carefully refined and consolidated into a single, cohesive manual.

The new manual, comprising **170 pages of expertise**, is now a comprehensive resource on sustainable solutions & agricultural techniques with practical guidance & is enriched with iconography and visuals

drawn from Haller's 20 years of hands-on experience in Kenya. Its' layout reflects the Haller Journey methodology, covering key areas such as WASH, Farmer Training, Sustainable Livelihoods, and Technology. Designed using Canva, it is available in two formats: a printed, bound version for use at Haller Kenya's Demonstration Farm and a digital version hosted on Haller's website. The latter can be downloaded as a complete booklet or in relevant sections, catering to diverse user needs, with this library of knowledge further extending our reach and impact.

The English version was meticulously designed and produced by Haller UK, with Haller Kenya contributing additional content, proofreading, and overseeing the translation into Swahili. The Swahili version is completed and undergoing final checks, ensuring its readiness for widespread use.



Project Expenditure:

GBP EXPENDITURE - 2024	BUDGET £	ACTUAL £	VAR £
Demonstration Farm Innovations			
New security system at DF - camera, remote monitoring, solar sensor lights, sensor beams & signage	3,000	3,225	-225
New smaller main pump for farm & wire cages	1,200	1,150	50
R&D material for coop & fish farming prototypes	300	315	-15
Roll out of prototypes into DF for training & supplies	500	545	-45
Dedicated training of new techniques	900	900	0
Total	5,900	6,135	-235
Schools Open Days & Training			
1 x Farmer Training Resource for one year	275	275	0
2 x Support Trainers for one year	100	100	0
Open Weekends 2024 x 2	600	600	0
Total	975	975	0
Youth Health Education Equipment			
Laptop for youth health education/ counselling	450	490	-40
Wi-fi & data plan	250	250	0
Nurse time Contribution (3-4 hours weekly)	750	750	0
Total	1,450	1,490	-40
Upgrading Farmer Training Manuals			
Review & re-format of existing Haller materials for partners & training of trainers (UK & Kenya joint)	2,500	2,500	0
R&D of new content (Kenya/Dr.Haller)	1,800	1,800	0
Design & Production (UK)	4,500	4,500	0
Total	8,800	8,800	0
App Development			
Wireframe transformation	8,000	8,000	0
Translation	2,000	2,000	0
Total	10,000	10,000	0
Project M&E	2,000	2,000	0
Total Budget	£29,125	£29,400	£(275)

Conclusion

Heartfelt thanks to all at Fondation Eagle for supporting this Haller project, with the aim of strengthening our infrastructure, education & training capabilities. This programme has been aimed at engaging youth & scaling our impact - improving access to knowledge

that combines the power of people & technology to share sustainable livelihood solutions with community members, both young & old, both locally & globally. We hope this can help build resilience against the challenges being faced by a cohort that are key to achieving global food security.

Ally Davies
Donor Relations
ally@haller.org.uk