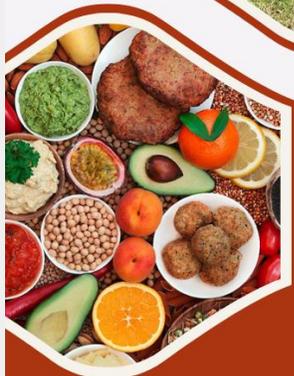




One Health & Development Initiative

# ANNUAL REPORT

## 2023



PROMOTING INTEGRATED & OPTIMAL HUMAN, ANIMAL AND ECOSYSTEM HEALTH

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## **ABBREVIATIONS AND ACRONYMS**

ACE	Animal Charity Evaluators
APA	Alternative Proteins Africa
AMR	Antimicrobial Resistance
ANAW	African Network for Animal Welfare
AWI	Aquaculture Welfare Intervention
AQWR	Aquaculture Welfare Research
EA	Effective Altruism
FY	Fiscal Year
HR	Human Resource
HWI	Hen Welfare Implementation
HWR	Hen Welfare Research
LGA	Local Government Area
M&E	Monitoring and Evaluation
MEAL	Monitoring Evaluation Accountability and Learning
MDA	Ministries, Departments and Agencies
NGO	Non-Governmental Organization
OHDI	One Health and Development Initiative
OWA	Open Wings Alliance
PIRS	Performance Indicator Reference Sheets
PCGN	Pangolin Conservation Guild of Nigeria
SP	Strategic Plan
THL	The Humane League

## ACKNOWLEDGMENTS

The Management, Board of Trustees, and Board of Advisors of One Health and Development Initiative extend their heartfelt gratitude to all stakeholders, funders, and partners who have contributed in no small measure to our success stories in 2023. We are privileged to have accomplished much this year, largely due to the fantastic support we have received from sponsors, implementing partners, community leaders, and members of the public while executing research, diverse interventions, community outreaches, advocacy, training, and media campaigns.

We value individuals who have greatly assisted in mobilizing members of target communities to participate in our programmes. These include chiefs and leaders of *Akinyele, Jarija, Dalute, Idi-Ayan, Kege Oke, Sangobon, Ilora* and *Fiditi* communities in Oyo State; *Ago-Iwoye* in Ogun State and *Ilaje* in Ondo State. The members of these communities are equally appreciated for their active engagement and participation in these community based One Health activities.

Our implementing partners are invaluable to the success of our activities this year. We appreciate Prof Olajumoke Morenikeji, Founder of the Pangolin Conservation Guild, Nigeria (PCGN); Madam Foluke Areola, President, World Aquaculture Society, Africa Region; the Ékiti Biodiversity Survey Project; WelFarm, Aquatic Life Institute, Equalia, and The Aquaculture Welfare Standards Initiative, Directors and Deputy directors of Departments of Fisheries and Aquaculture in Lagos, Oyo, Ogun, Ondo, Osun, Ekiti, and Kwara States; Directors at the Oyo State Ministry of Agriculture and Rural Development as well as National and state-level directors of the Department of the Veterinary and Pest Control Services (DVPCS), Federal Ministry of Agriculture and Rural Development (FMARD).

We, likewise, appreciate the leadership of The Africa Public Health Student Network Nigeria (APHSN), International Veterinary Student Association Nigeria (IVSA), and Principals of Itamerin Comprehensive High School, Ago Iwoye Secondary School, Fortune Gate School, Igbokoda High School and Achievers City Group of Schools, Ilaje, Ondo State, Nigeria.

We are most grateful to our esteemed sponsors whose generosity in funding, mentorship, and training has been the cornerstone of our success. These include the Animal Charity Evaluators (ACE), African Network for Animal Welfare (ANAW), Open Wing Alliance (OWA) of The Humane League (THL), Effective Altruism (EA) Funds, Thrive Philanthropy, The Chicago Zoological Society (Chicago Board of Trade for Endangered Species Fund).

Our appreciation goes further to our hard-working members of staff whose commitment and efforts have propelled our activities forward. Together, we've made significant impacts. We look forward to continued success in the coming year.

Thank You.

**OHDI Management**

## EXECUTIVE SUMMARY

OHDI is the leading nonprofit, nongovernmental organization in the One Health space in Nigeria and in Africa at large, proffering solutions to interrelated issues in human, animal, environmental, and ecosystem health. Our mission is rooted in the belief that public health concerns are interwoven, demanding a comprehensive strategy for solutions that are both impactful and enduring. We have remained focused on our vision to be the foremost organization utilizing the One Health approach to address and solve public health and sustainable development issues in Africa.

This report is a summary of our performance in the 2023 fiscal year. In it, we've highlighted our achievements in terms of reach and impact. It also captures our challenges and expectations in line with our vision and strategic plans.

Our initiatives this year have been focused on food safety, anthrax and rabies control, meat hygiene, pangolin and sea turtle conservation, animal welfare (aquaculture fish and hen welfare), and antimicrobial resistance. We also began advocacy to transform perceptions on alternative proteins, encouraging people not only to adopt plant-based proteins but also to create food environments in which healthy and sustainable food choices are accessible and affordable.

We reached over 27 million people with One Health-related news and information through traditional and social media platforms. We implemented projects, research, community outreaches, and media campaigns in 28 Nigerian states, directly impacting over 9000 individuals. To help facilitate our activities, we received funding support from Animal Charity Evaluators (ACE), Open Wing Alliance (OWA) of The Humane League (THL), Effective Altruism (EA) Funds, Thrive Philanthropy, and The Chicago Zoological Society (Chicago Board of Trade for Endangered Species Fund). Our unrelenting commitment to growth and excellence has made us further optimize our program design and organizational structures and continually revise our financial, M&E, resource mobilization, and human resource policies to align with best practices.

We are an organization that strives for evidence based, cost-effective One Health impact. We, therefore, appreciate your partnership with us in fostering sustainable health and development for humans, animals, and our environment. We believe that your support can fuel our One Health programs, enabling us to reach more communities and countries, foster greater awareness, and make a lasting impact for sustainable development and a healthier future for all.

## INTRODUCTION TO OHDI

One Health and Development Initiative (OHDI) is a nonprofit organization registered in Nigeria in June 2019 to address interrelated issues of human, animal, and environmental health using the One Health approach. The One Health approach recognizes that the health of humans, animals, and the environment are interconnected, and thus, solutions in any of these health areas should not be treated independently but rather in consonance with one another. We strongly believe that public health concerns are intricately linked across these three dimensions, demanding a comprehensive strategy—namely, the One Health approach—for efficacious and sustainable solutions.

OHDI focuses its programming on 4 major inter-connected areas. These include Public Health (which comprises Zoonoses, Food Safety, and Antimicrobial Resistance), Environment and Conservation, Animal Welfare, and Sustainable Food Systems. Our objective is to address public health challenges considering the tripartite influences of humans, animals, and the environment. We also aim to inspire individuals and institutions to safeguard the integrity of the physical environment, promote biodiversity conservation through advocacy and policy influencing aimed at encouraging responsible waste disposal and pollution control, and champion the well-being and quality of life of animals. By doing so, we aim to curtail the prevalence of zoonotic diseases and the unbridled use of antimicrobials, forging a healthier future for all.

The organization's several strategies for impact in these programmatic areas include the implementation of relevant community-focused projects and research, media campaigns, advocacy, policy influencing, and leveraging technology to drive the desired result. Our strategic goal is, thus, to establish sustainable and integrated systems for humans, animals, environmental and ecosystem health by implementing relevant interventions using these strategies. To achieve this, our Board, management, and staff are committed to the core values by which we coordinate our activities and operations and engage with our stakeholders. These core values include teamwork and collaboration, integrity, accountability, excellence, community-focused, and impact-driven values of work.

### **OUR ANTECEDENTS**

From its inception till date, OHDI has implemented several community-based interventions, advocacy, media, and research projects on diverse themes, including Food Safety and Security, Sanitation and Hygiene, Animal Welfare,

Conservation Education and Intervention, Neglected Tropical Diseases, Antimicrobial Resistance, and the COVID-19 pandemic. We have also initiated and completed a series of training and mentorship schemes for One Health enthusiasts. Please refer to our [annual report for the 2022 fiscal year](#) for more comprehensive details of our past achievements and impact.

## **OUR 2023 PROGRAMMATIC ACHIEVEMENTS**

### **ANIMAL WELFARE**

#### **Hen Welfare Research (HWR)**

In July 2022, OHDI supported a consultancy project mandated by the Africa Network for Animal Welfare (ANAW) to carry out a baseline study on Hen Welfare in Nigeria with the view to determine the prevalence of battery cages for poultry housing in Nigeria, understand the knowledge, norms, attitudes, and actions of poultry farmers and stakeholders on Hen welfare practices. 1,361 stakeholders across 18 states took part in the research, and these include specialists at government agricultural ministries, researchers, leaders of poultry farmers' associations, poultry farmers, and consumers. Among other key findings, results of the survey revealed a battery cage prevalence of over 60% in Nigeria with poor knowledge and practice of animal and hen welfare. The survey, which started in 2022, was concluded in 2023, and a [report of our findings](#) has been presented to stakeholders at the OWA Cage-free conference held in Ghana.

#### **Aquaculture Welfare Intervention**

Following the antecedents and evidence provided for our [Aquaculture Fish Welfare Research \(2022\)](#), the Aquaculture Welfare Intervention programme was established to educate and train aquaculture fish stakeholders on fish welfare practices and alignment with existing fish production systems. This project, sponsored by the Effective Altruism (EA) Funds, educated, and implemented best practices concerning aquaculture health and welfare in Nigeria. The project's training component is aimed at influencing stakeholders, including policy influencers at government ministries, departments, and agencies, as well as fish farmers associations, to take up action that will guide the activities of fish farmers about fish welfare. It was also designed to strike a balance between the farmers' desire for profit and the reduction of suffering in farmed fish.

To date, 87 fish farmers, government officials, and fisheries service directors from seven states in Southwest Nigeria have undergone training. These training sessions are being complemented by community and public awareness campaigns through radio broadcasts, disseminating general animal welfare education, and introducing the concept of sentience in farmed animals. The ultimate objective is to sensitize the public about the optimal conditions required for fish to thrive. This, in turn, aims to empower fish farmers with the knowledge needed to adhere to higher standards in fish welfare while encouraging consumers to demand higher standards in fish farming.

To further consolidate our efforts in improving aquaculture fish welfare practices, we launched an [Aquaculture Fish Welfare Training Guide](#) for fish farmers and stakeholders in Nigeria. The training guide, which is for fish farmers and all who work with, contribute to, or support their work, establishes systematic and holistic guidance to educate fish farmers on the need for fish welfare, global best practices of fish welfare, and how to adapt these practices to local fish farm settings and fish species in the country.

The manual targets stakeholders such as veterinarians, animal health and production practitioners, government administrators, policymakers and researchers in fisheries and aquaculture, fish welfare groups, advocates and organizations, certification bodies and export institutions, international organizations that support fish farmers, and private sector companies that purchase fish products and this is to improve their knowledge of expected fish welfare standards and ensure that demand for standard fish welfare practices from fish farmers is a top priority in their engagements. To further increase the reach of our education and training programs on Fish Welfare, we have implemented the online education platform [Animal Welfare Courses](#), which is geared for full launch in the first quarter of 2024.



Picture 1: Photo Collage from Aquaculture Welfare Intervention Project

### Hen welfare and Cage-free Advocacy

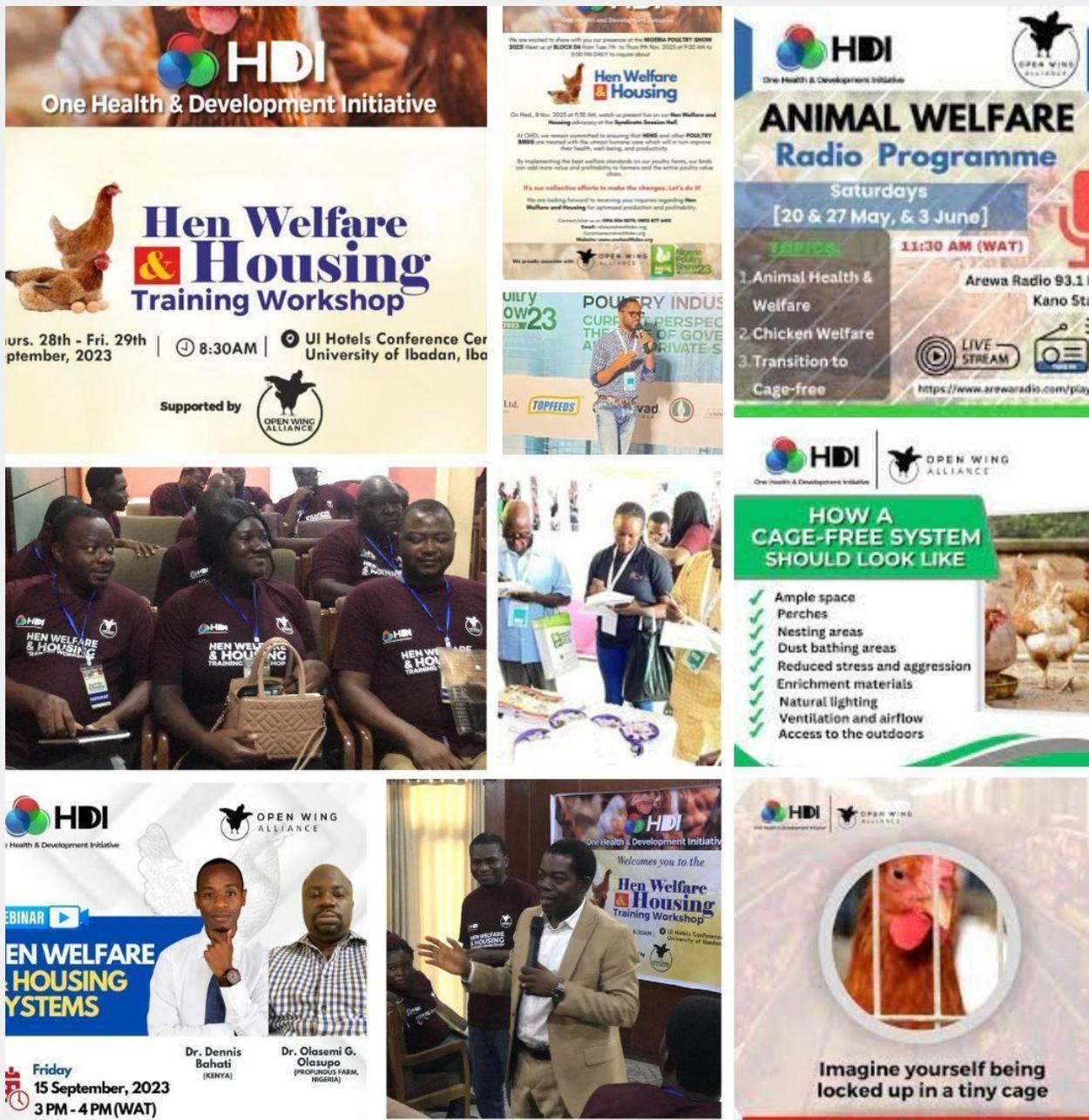
OHDI kicked off an intervention on Hen Welfare with the goal of promoting stakeholder education and action on the adoption and transition to cage-free systems. This project intervention became necessary after our preliminary research study identified a knowledge gap and poor practice of hen welfare and cage-free farming in Nigeria. This project, funded by The Humane League (THL),

is focused on training stakeholders and promoting corporate campaigns in the chicken and egg value chain, creating awareness of the values of cage-free systems and best practices in hen welfare to encourage the adoption and transition to cage-free farming, which is regarded as the set standard for optimum livelihood and improved productivity of poultry birds.

This project, which started in March and is being implemented across three geopolitical zones in Nigeria, engages government officials, hen farmers, and consumers through training on hen welfare and cage-free farming. 40 hen farmers and government officials have been trained so far. Public awareness programs also ran on radio stations across the country, including Kano-based Arewa radio, with a listenership of more than 25 million across Northern Nigeria. The hen welfare and cage-free farming project speaks to our commitment to improving the quality of life of hens in Nigeria through sensitization on hen welfare and humane housing for hens and providing technical support for a seamless transition.

Following the hen welfare training we organized, we got invited to the Nigeria Poultry Show (NPS) 2023. The NPS 2023, themed: "Mitigating the Challenges of the Poultry Industry: Current Perspectives, The Role of Government and The Private Sector," was organized mainly for the exhibition of innovations, farming practices, equipment, and medications/vaccines (drugs) newly developed for use in the poultry industry.

At the event, we promoted our Hen Welfare and Cage-free advocacy and established/fostered strong relationships on a larger scale with new and existing stakeholders in the poultry value chain, including farmers, corporate poultry product buyers, government agencies, etc. We spoke at one of the syndicate sessions, where we presented our advocacy messages on cage-free systems and Hen welfare. We also engaged in personal get-to-meets and hoisted our well-positioned exhibition booth for a remarkable exhibition and discussions regarding our advocacy. We engaged over 150 farmers on cage-free and hen welfare advocacy and encouraged the cage-free farmers to sign up to our cage-free directory. Engagements like this points to how keen we are in harnessing every opportunity to collaborate with organizations that share some essential components necessary for cage-free advocacy.



Picture 2: Photo Collage from the Hen Welfare and Cage-free Farming Intervention Project

### ‘Animal Welfare Courses’ Platform

In June 2023, OHDH received funding from the Animal Charity Evaluators (ACE) to implement Animal Welfare Training for Africa, with the specific objective being the establishment of an online training and certification short course covering the welfare of laboratory animals, companion animals, work animals and farmed animals. [The Animal Welfare Courses](#) are being developed to train and build the

capacity of relevant stakeholders (including animal owners, farmers, animal health professionals, policymakers, researchers, and animal welfare advocates) on global animal welfare standards and practices while supporting its implementation in African countries, communities, and spaces.

Currently, the course modules and content are being developed with the support of domain experts and consultants across various spheres of Animal Welfare. The courses will promote knowledge but also build the capacity of target stakeholders to implement or integrate animal welfare practices across various animal species. Plans are underway to translate the course content into multiple African languages to reach more people. The [Animal Welfare Courses](#) platform is expected to be launched in the first quarter of FY 2024.

## **SUSTAINABLE FOOD SYSTEMS**

### **Alternative Proteins Africa (APA)**

Alternative Proteins Africa (APA) is a project established by OHDI as a resource hub and platform that promotes knowledge, information, advocacy, research, innovations, and movement building for the growth and advancement of the alternative protein sector in Africa. APA also supports the transitioning of food systems and lifestyle choices that are healthy and sustainable and improve One Health in African countries and communities.

The project intends to bridge the public knowledge gap on alternative proteins and, in the process, showcase their benefits to human health, animal welfare, environmental sustainability, climate change, and economic growth. APA also intends to provide globally relevant information on growth, trends, research, and innovation that would drive interest, movement building, and investments into the alternative protein sector in Africa. At the project's core is promoting, advocating, and supporting people transitioning from animal-based proteins to alternative plant-based sources.

In order to identify the reasons people adopt alternative protein sources and understand the challenges associated with transitioning and adopting only alternative protein sources in Nigeria, we engaged vegetarians and vegans across 2 cities in Nigeria. Concurrently, another survey was carried out on restaurants and supermarkets to better understand the demand, supply and value chain of vegan and vegetarian food products.

The first phase of these surveys carried out in Lagos and Abuja, has been completed, and the data are currently being analyzed. The results of this survey will offer relevant institutions and organizations some insights into emerging market trends that can be leveraged with the growing community of vegetarians and vegans in Nigeria.

Our efforts at advocacy for the adoption of alternative protein sources did not go unnoticed as we were supported with a grant from Thrive Philanthropy. This will help facilitate our advocacy activities and the implementation of community-focused interventions. These activities include establishing a vegan/vegetarian community and accountability platform, organizing sensitization lectures at a selected tertiary institution, creating a vegan/vegetarian recipes booklet, particularly those focused on Nigerian/African cuisines, and developing a directory of vegan food producers and sellers in Nigeria. [Please visit our website for more information on Alternative Proteins Africa.](#)

## **ZOONOSES CONTROL AND PREVENTION**

### **Media campaign on NTDS**

This year, media campaigns were part of our efforts to enhance control and prevention efforts against zoonotic diseases. We published an article titled "[Protecting Our Future: Empowering the Next Generation to Tackle Zoonotic Diseases,](#)" which gives an account of the history of Zoonoses, transmission modes, and factors influencing the increase in their incidence. It also gives insight into One Health perspectives regarding zoonotic diseases emphasizing the interconnectedness of human, animal and environmental health in addressing and preventing these diseases.



**Picture 3: Graphics from a Published Article titled “Protecting Our future: Empowering the Next Generation to tackle Zoonotic Diseases**

### **Project Eliminate Rabies Phase II**

With the increasing reports of Rabies in Nigeria, OHDI has intensified acting on its mandate and commitment to combat rabies through community education and mass dog vaccination, particularly in rural, remote areas that often have limited access to both human and animal health services. We implemented and scaled up our interventions through the second phase of Project Eliminate Rabies (PER). Within the year in review, two outreaches were carried out, the first in May, across five communities, *Jarija, Dalute, Idi-Ayan, Kege Oke, and Sangobon* in *Akinyele LGA, Oyo State, Nigeria*. An average of 117 participants participated in the outreach, and a total of 59 pets were vaccinated. In July, the second outreach

was carried out in two communities, Fiditi and Ilora, in Afijio LGA, Oyo State. An average of 200 people were reached, and 61 pets were vaccinated with ARVs, while 100 goats and sheep were vaccinated against Peste des petits ruminants (PPR). Also, a total of 80 pets were also dewormed.

A total of 3933 people have thus been reached with information on rabies awareness, prevention, and treatment since inception of the project in November 2022. 470 household pets have also been vaccinated against rabies. There are plans to scale up this project to cover other parts of Nigeria.



Picture 4: Photo Collage from the Project Eliminate Rabies Phase II

## **Anthrax Awareness and Control**

Our endeavours in the control and prevention of infectious disease this year included a new project on anthrax awareness and control. Nigeria recorded its first reports (in decades) of anthrax infection and mortality in livestock animals, which prompted action and mobilization for support from the government and stakeholders. The project, which is being carried out in collaboration with the Oyo State Ministry of Agriculture and Food Safety, is aimed at creating awareness of Anthrax disease among stakeholders, cattle-breeders association, butchers association, private veterinarians, and the wider public through community outreaches and sensitization on social media. The project, which is still in its inception phase, also aims to control anthrax infection through ring vaccination of cattle and other ruminants across Iseyin and other LGAs in Oyo State. Furthermore, we have supported the Oyo State Ministry of Agriculture and Food Safety with anthrax vaccines to be able to successfully carry out the vaccination activities in target agrarian communities.

## **FOOD SAFETY**

### **Food Safety and Abattoir Management**

Our endeavours in food safety this year included a webinar on food safety and abattoir management, which was one of a kind in terms of traction and turnout, with more than 70 participants. Speakers at the event, Prof. Christine Ikpeme of the Department of Food Science & Technology, University of Calabar, and Dr. Juan Avila, Director at Eville & Jones, United Kingdom, harped on the role of veterinarians in the slaughterhouse and the importance of standard facilities, hygiene practices, and training of workers on standard procedures in other to ensure quality meat production.

Highlighted were the disparities between set standards, the current procedures and management practices in Nigerian abattoirs, and the measures being taken to improve standards. Emphasis was laid on the importance of slaughterhouse owners implementing a Hazard Analysis Critical Control Points (HACCP) system, which professional veterinarians should review.

There are plans to build on this webinar to sustain the conversation on healthy meat production in Nigeria. A stakeholders meeting is being planned to discuss strategies for improving abattoir conditions in Nigeria. Media campaigns, especially radio interviews and sponsored adverts on healthy meat production,

are also being considered. These events are expected to commence in the year 2024.

The graphic is a promotional poster for a webinar. At the top left is the HDI logo (Three overlapping circles in red, blue, and green) with the text 'HDI One Health & Development Initiative'. To the right, the title 'Food Safety & Abattoir Management' is written in large, bold, red and blue letters. A blue banner on the left contains a white play button icon and the word 'WEBINAR'. Below the title are two circular portraits of speakers. The first is Prof. Christine Ikpeme, a Black woman with short curly hair, wearing a red jacket. The second is Dr. Juan Avila, a man with a grey beard, wearing a dark shirt. Below each portrait is a red oval with the word 'Speaker'. Underneath the portraits, their names and titles are listed: 'Prof. Christine Ikpeme, Food Science & Technology, UNICAL, Nigeria' and 'Dr. Juan Avila, Director, Eville & Jones, UK'. A red banner at the bottom contains the date and time: 'Monday, 12 June 2023 | 3 PM (WAT)'. Below this is a blue play button icon followed by the text 'Please register at bit.ly/43HxNIE'. The background of the top half of the graphic shows a blurred image of a slaughterhouse interior.

Picture 5: Webinar Invitation to Discuss on Food Safety and Abattoir Management

## ANTIMICROBIAL RESISTANCE

### Community and Media Outreaches on Antimicrobial Resistance

As part of the activities marking the World AMR Awareness Week (WAAW) week, OHDI, in partnership with Africa Public Health Student Network Nigeria (APHSN) and International Veterinary Student Association Nigeria (IVSA), organized an outreach at the Central abattoir at Akinyele, Ibadan where we engaged approximately 4000 participants including butchers, cattle farmers, meat sellers, market women, and the general public with Information, Education and

Communication (IEC) materials on AMR and intimating them on the danger of haphazard use of antimicrobials on cattle and other farmed animals.

Three pharmacies in Ibadan, including Diadem, Omak, and the University of Ibadan Health Service pharmacy, were also visited, and engaged with IEC materials, convincing them to publicly display them and use them in reaching out to people to create more awareness of AMR. This outreach, the first of its kind on AMR in Ibadan, addressed the lack of AMR awareness in animal healthcare in Ibadan and its environs while also serving as a basis for continued AMR education.



Picture 6: Photo Collage from the Antimicrobial Resistance Outreach at the Central Abattoir at Akinyele, Ibadan

Other activities to mark the WAAW included:

1. An essay competition for undergraduates to draw out innovative solutions to tackling antimicrobial resistance.
2. A social media campaign in partnership with student associations on antimicrobial resistance and the danger it poses.
3. A concluding webinar themed 'Youth involvement in continuous AMR prevention and control efforts.'

The essay competition drew 166 participants who contributed ideas on innovative ways of combating AMR. Winners of the essay competition were announced to an audience of more than 100 people who participated in the concluding webinar. The organization awarded the top three winners of the competition with financial incentives.

OHDI regards WAAW as an opportunity to continue public awareness and education on the rising public health threats of AMR and ensure best practices are implemented by stakeholders in its control and prevention. We believe youth-led involvements and initiatives in AMR activities will help inject needed energy and enthusiasm in the fight against AMR, hence our focus on incorporating them into several of our programmes.



Picture 7: Photo Collage of Graphics from the World AMR Awareness Week

## Awareness Campaign on AMR National Action Plan (NAP)

OHDI also launched a series of media campaigns to educate the public on the National Action Plan (NAP) on AMR. One such campaign was a webinar tagged "Youth Action For Implementing AMR National Action Plans," in which speakers from Nigeria and Kenya intimated participants on National Action Plans in both countries, the successes of the NAP in Nigeria, which included the establishment of the AMR National Reference Laboratory in Nigeria, and the establishment of sentinel laboratories in human and animal health sectors. Also discussed were the challenges with NAP on AMR implementation in Nigeria, including the non-existence of surveillance protocols in animal health and the absence of regulation on Antimicrobial Stewardship in human and animal health.

Highlighted by the speakers in the webinar were areas in which youths are needed to implement the AMR National Action Plan. These include creating awareness, community involvement, policy and advocacy, innovation and research, collaboration, and partnerships. Highlighted also were the challenges faced in the implementation of the NAP on AMR in Kenya, including low funding, lack of public involvement, actions of unauthorized drug dispensers, lack of AMR awareness amongst health workers, low youth empowerment, and conflicting policies and laws. The webinar was followed by a social media campaign on AMR and the National Action Plan.



Picture 8 : Photo Collage of Graphics of Webinar Invitation and AMR Social Media Campaign

A sequel webinar was held to reflect on Nigeria's National Action Plan on Antimicrobial Resistance (2017-2022) and its aim of mitigating the spread of AMR in Nigeria through various approaches, including the One Health approach. One of the speakers, Dr Mabel Aworh-Ajumobi, reviewed the action plans of Nigeria's AMR coordinating committee and its governance structure. A situation analysis of antimicrobial use and resistance in Nigeria, as well as challenges in implementing the action plans, were also discussed. She highlighted that the objectives of the NAP and key outcomes, including necessary antimicrobial stewardship and biosecurity, and future considerations, such as improved infrastructure for microbiological diagnostics such as GeneXpert machines and genomic sequencing, are critical to winning the fight against antimicrobial resistance.

At the event, we also used the opportunity to inform participants of our efforts as an organization in antimicrobial stewardship, research, and public education of the NAP on AMR and the challenges envisaged in implementing the NAP. These challenges include lack of awareness, unrestricted access to antimicrobials, lack of diagnostic capacity, and cost of diagnostic capacity, amongst others. Suggested recommendations to curtail these challenges are the funding of AMR programs, regular sensitization of the public on AMR, an efficient centralized and inclusive surveillance system and capacity building for professionals across all levels, establishment and strengthening of diagnostic labs, and enforcement of policies on AMR.

**HDI**  
One Health & Development Initiative

**WEBINAR**

**REFLECTIONS FROM AMR NAP 1.0:  
LESSONS FOR THE  
UPCOMING AMR  
NAP 2.0**

**SAT. JULY 22, 2023** | **3:00 PM (WAT)**

**Register Here!**

<https://bit.ly/3Cwf0hW>

**Speakers**

**Dr. Mabel Ajumobi**  
Identifying gaps in the implementation of Nigeria's NAP on AMR for 2017-2022

**Damilola Adesuyi**  
Research report on NAP on AMR Implementation in Nigeria

**Vanessa Carter**  
Promoting Public Engagement in the Implementation of the NAP

Picture 9: Webinar Invitation to Discuss Reflections on AMR NAP 1.0

## **ENVIRONMENT AND CONSERVATION**

### **Pangolin Rehabilitation, Conservation, and Habitat Protection**

OHDI has been at the forefront of pangolin conservation in Nigeria. A noteworthy project was the pangolin conservation project carried out in Epe, Lagos State, last year. [More information on the project can be found here](#). This year, OHDI, in collaboration with Pangolin Conservation Guild Nigeria (PCGN) and with support from the Chicago Zoological Society (Chicago Board of Trade for Endangered Species Fund), embarked on a pangolin conservation education and awareness campaign at Ago-Iwoye, a semi-urban community in Ogun State, Nigeria. The campaign, which drew stakeholders such as community leaders, members, and security officials (Nigeria Security and Civil Defence Corps and Nigeria Police Force), raised awareness about the importance of pangolins, the threats to their existence as well as the laws regarding the illegal killing and trading of pangolins and other endangered species. Participants were informed that collaboration with security officials could improve law enforcement relating to the conservation and protection of pangolins.

Two schools, Itamerin Comprehensive High School, Oru and Ago Iwoye Secondary School, Ago Iwoye, were also visited with a total of 1003 students and teachers intimated on the need to protect pangolins, thus preventing their extinction. An outcome of this project is the revelation of a deficient level of awareness of the associated threats to pangolins and the importance of pangolin conservation. Most stakeholders encountered had never heard about pangolins, nor were they aware of the threats faced by pangolins and the impact these threats pose to the ecosystem. Through this outreach, we have been able to successfully bridge that knowledge gap and are optimistic that stakeholders will share acquired knowledge, thereby fostering improved treatment of pangolins in the community.



**Picture 10: Photo Collage from the Pangolin Rehabilitation, Conservation, and Habitat Protection Project in Ago-Iwoye, Ogun State**

In the bid to create more awareness regarding pangolin conservation efforts in Nigeria, OHDHI celebrated the world pangolin day with a webinar themed "Pangolin Conservation in Nigeria: Our Successes and Challenges," in which keynote speakers Dr. Babajide Agboola, conservation ecologist and curator at Ékiti Biodiversity Survey Project and Professor Olajumoke Morenikeji, Chair, Pangolin Conservation Guild of Nigeria Nigeria (PCGN) spoke about their efforts in protecting pangolins and their habitats. OHDHI also collaborated with PCGN alongside several other organizations to host a Sticker Rally as well as a Symposium at the University of Ibadan themed "Communities leading Pangolin

conservation - Uniting against the extinction of Pangolins" which had 250 stakeholders in attendance.

**HDI** | **PANGOLIN CONSERVATION GUILD NIGERIA**  
One Health & Development Initiative |

ONE HEALTH AND DEVELOPMENT INITIATIVE (OHDI)  
& PANGOLIN CONSERVATION GUILD NIGERIA (PCGN)

WORLD PANGOLIN DAY  
2023

invite you to join a  
**WEBINAR**  
in commemoration of  
2023 World Pangolin Day

**THEME**  
Pangolin Conservation in Nigeria:  
**OUR SUCCESSES  
AND CHALLENGES**

**Dr. Babajide Agboola**  
Conservation Ecologist

**Prof. Olajumoke Morenikeji**  
Chair, Pangolin Conservation Guild Nigeria

**FRI 17TH FEB 2023** | **3:00 PM (WAT)**

**Features:**

- Presentation of the Epe Community Pangolin Conservation Taskforce
- Validation of the Pangolin Conservation Training Manual

Picture 11: Webinar Invitation to Discuss Our Pangolin Conservation Efforts in Nigeria in Commemoration Of 2023 World Pangolin Day

## Sea Turtle Conservation Awareness

Our interventions in environment and conservation this year saw intense activity in sea turtle conservation awareness in riverine areas of Ondo State. Our environment and conservation team conducted outreaches to three secondary schools, namely Igbokoda High School, Fortune Gate School, and Achievers City group of schools, all in Ilaje, Ondo State, engaging a total of 230 participants on the need to preserve the biodiversity of exotic wildlife, sea turtle being prominent species in that locality. A total of 119 students volunteered to join the sea turtle conservation club in their respective schools, where they are trained on the conservation of sea turtles and the essence of preserving marine biodiversity. A sea turtle conservation manual has been developed to serve as a guide during training events. Efforts are underway to reach more schools and train more volunteers on practical ways of preserving sea turtles and other local wildlife.



Picture 12 : Photo Collage from the Sea Turtle Conservation School Outreach

## Ilaje Beach Clean Up

Our advocacy for the conservation of sea turtles also included the cleanup of beaches that serve as habitats for sea turtles and other numerous aquatic wildlife. Global aquatic life is being threatened by the buildup of an estimated 100 million tons of plastic in oceans around the world. The sea turtle is a threatened species in this regard. The cleanup, which took place at Araromi Beach Ilaje LGA, Ondo State, had a dual purpose of not just picking up seaside wastes but also creating conservation awareness by means of stickers, signages, and information boards that were erected on the beach. It also provided an opportunity to engage and mentor school students who are members of the Sea Turtle Conservation Club in conservation activities, thus improving their leadership skills and fostering teamwork.



Picture 13: Photo Collage from the Ilaje Beach Clean Up Exercise

## **Waste Recycling**

OHDI is committed to promoting healthy physical environments devoid of pollution and land degradation. Our focus this year has also been on programmes and policies that will help create enlightenment on plastic waste management and general waste recycling. Our current efforts in this regard include the compilation of a list of stakeholders in plastic pollution and subsequent surveys on recycling firms in Nigeria.

The first phase of this survey is being carried out in Lagos and several cities across North Central Nigeria. The aim of this survey, which is currently underway, is to identify and map stakeholders in the recycling industry in Nigeria, understand the challenges, successes, and unique perspectives within the recycling industry, and understand current strategies for sustainable waste management in Nigeria.

## **ORGANIZATIONAL OPERATIONS**

### **Resource Mobilization**

In the fiscal year 2023, which marks the fourth year of our operations, OHDI thrived; thanks to the generous support in the form of grant funding, travel grants, and consultancy services from funding organizations that share our vision.

We particularly thank the following funders for their generous resource support in the year 2023:

- Animal Charity Evaluators (ACE)
- Effective Altruism (EA) Funds
- African Network for Animal Welfare (ANAW)
- The Humane League
- The Chicago Zoological Society/Brookfield Zoo
- Thrive Philanthropy

### **Organizational Operations and Administration**

We have strengthened our operational systems by taking the following key actions.

- Developed a resource mobilization plan.
- Reviewed and updated the Finance Policy and Manual

- Reviewed and updated the HR Manual including the establishment of an Employee Handbook
- Developed a Safeguarding Policy
- Improved employee benefits which include provision of health insurance and establishment of a pension contribution system for confirmed staff.
- Completed annual financial audits and reporting for 2022.

## CONCLUSION

OHDI regards itself as the arrowhead organization for One Health action in Nigeria with the capability to blaze a trail of impact across Africa. We are committed to continuous improvement by fulfilling and surpassing our programme goals and objectives. OHDI is constantly seeking channels to propagate the One Health approach in achieving sustainable results in health promotion and sustainable development.

Our unwavering focus is to bridge gaps between human, animal, and environmental health. Backed by a track record in research, education, advocacy, community involvement, and corresponding interventions, OHDI stands as an influential advocate for fostering sustainable health practices and corresponding high-impact activities. While we are proud of our achievements in FY 2023, we look forward to grand scale-up and strengthening in FY 2024 and beyond.



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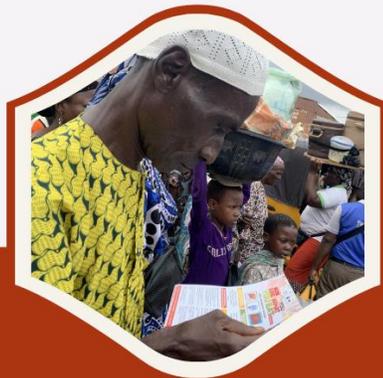
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