

2016

ARCHIVE Global
Annual Report
10 Year Anniversary

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architecture for health

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ABOUT US

Who We Are

ARCHIVE Global: Architecture for Health in Vulnerable Environments is an international non-profit organization with permanent offices in New York and London. ARCHIVE fights disease by delivering targeted housing design improvements. Prioritizing design as a key strategy in combating disease around the world, we believe that prevention is the critical to reducing the burden of disease. As the cost of treatment-based solutions to disease continues to skyrocket, simple, cost-effective improvements and scalable interventions represent a preventive model that is replicable and sustainable.

Housing affects global health in a powerful way. ARCHIVE Global operates at the intersection of development, health, and architecture. We believe that a better built environment can drastically reduce the burden of disease and death in impoverished communities worldwide.

Our Approach



research

We investigate how the built environment contributes to public health globally.



advocacy

We strive to bring change at a national and international level through changes in public policy.



construction

We believe in the need to design, test, and build practical housing solutions that combat poor health.



Namibia, 2016



Haiti 2011



Namibia, 2016





MESSAGE FROM THE FOUNDER

Access to adequate housing is a basic right. Yet for many around the world universal access to healthy homes remains seemingly untenable. We at ARCHIVE want to change this grim reality. After 10 years, we know that simple, smart designs coupled with effective, local community-wide training, can have far reaching results. ARCHIVE began in the spring of 2006 as a research project funded by Columbia University. Our first project was to study the effects better housing design could have on people living with HIV/AIDS in South Africa. Pretty soon afterwards it was clear that this organization's work could address so much more.

We've worked on some remarkable projects in the past ten years. From our work throughout Africa, Asia, the UK, and the Americas, we see that although the specific issues we are tackling may be different in each context, our core mission remains the same – to deliver improved health outcomes for the most vulnerable communities through architecture and design solutions.

At the 10 year mark in ARCHIVE's story, I marvel at how far we've come and how much we've been able to achieve. We have grown from an organization that was initially entirely reliant on family and friends volunteering their time and resources to the present team of dedicated professionals. We have expanded our reach from organizing small awareness campaigns to working on projects affecting thousands of beneficiaries. None of this would have been possible without the continued support of ARCHIVE's patrons and supporters. By sharing your expertise, friendship, and financial generosity you have helped and guided us every step of the way.

Thank you,
Peter Williams
Founder/Executive Director

MESSAGE FROM THE BOARD

The global community faces some serious challenges in the next few years - the issue of providing a global population with adequate shelter while facing down the increasing impacts of climate change and the burden of public health crises. We have seen that in our increasingly interconnected world, these issues are all related and will affect every one of us regardless of geographic location, nationality, or social standing. We can no longer put off addressing these issues to others or to future generations.

ARCHIVE addresses these pressing global issues by improving health through housing for vulnerable communities. While the organization's focus remains primarily on testing and implementing design solutions to mitigate the effects of morbidity and mortality, 10 years of work in this area has taught us that in order to maximize our impact, we must take a holistic approach to designing and carrying out our mission. In an interconnected world, we must collaborate with partners from diverse sectors and industries to tackle the challenges that affect the communities we work with.

Towards those goals, the Board of Directors implemented a strategic shift in the application of the organization's mission. Starting this year, we have begun working with organizations in an advisory role. With our years of expertise in disease reduction through design, we are uniquely qualified to share and lend our expertise to other organizations working in international development and humanitarian response.

This year also brought other exciting organizational developments for ARCHIVE. We partnered with Article 25 in the U.K., an architectural

humanitarian nonprofit that provides expertise on designing and building hospitals, schools, and disaster risk reduction solutions globally. This partnership represents increased capacity for both organizations and access to a varied portfolio of projects around the world. We look forward to fulfilling our shared goals.

As a body, a Board of Directors remains committed to supporting ARCHIVE's mission. One of the ways we will do so is by strengthening the capacity of the board with new members with diverse skills to meet the needs of a growing organization.

We are proud to support the critical work ARCHIVE does. We hope you join us in celebrating the organization's decade of achievements.

The ARCHIVE Global Board of Directors

Angela Aidala
Lenore Cooney
Kevin Davis
David Drake
Lena Mass-Cresnik
Gregory Martin
Chris Nicholson
David Panton
Paul Scialla
David Venderbush
Peter Williams



Bangladesh 2014



Bangladesh 2017

ARCHITECTURE FOR HEALTH

Health and Housing at a Glance

Lack of ventilation can increase incidence of many airborne diseases, such as tuberculosis, and compound the effects of dusts and pollutants, such as those from indoor stoves using solid fuels.

Windows, doors, and eaves can be entry points for vector-borne diseases, such as malaria and dengue fever.

Walls and roofs can host insect vectors carrying Chagas and leishmaniasis.



Dirt floors carry parasites, bacteria, and viruses that cause diarrhea, hepatitis, typhoid fever, and Neglected Tropical Diseases, such as trachoma.



Food stored in unhygienic environments can host life-threatening bacteria and mold, as well as rodent-borne illnesses.



Direct contact with waste water, or indirect contact through contaminated water supplies or through animals and insects, is a common source of diarrheal diseases, hepatitis, and many of the Neglected Tropical Diseases.



Overcrowding is a major driver in the spread of infectious diseases and is linked to higher morbidity and mortality.

ARCHITECTURE FOR HEALTH

The Need for Prevention



Limited Access to Treatment — For many in both developing and developed nations, access to treatment is a luxury. And when there is access, it can mean a loss of precious hours of productivity.



Drug and Insecticide Resistance — Many major diseases, such as malaria and tuberculosis, are increasingly resistant to existing drugs. Less reliance on treatment means the drugs will work when they are most needed. The same counts for insecticides.



Research and Development Costs — Drug resistance demands increasing research and development to keep up with changing pathogens. For many diseases of the poor, industry has little financial incentive to do research and development, as the poor cannot afford patented drugs.



Healthcare Costs — Rising costs are a challenge for both public and private healthcare, and developing countries often have overburdened and inadequate systems. Prevention allows healthcare to be focused on those that need it most.



Namibia 2016



Bangladesh 2014

ARCHITECTURE FOR HEALTH

Why Housing?



Global Urbanization

Cities can be a boon or bane for our health, with numerous challenges such as overcrowding, sanitation, disease outbreaks, violence, and a wide range of non-communicable diseases that result from poor living conditions and lack of planning.



Slum Growth

Overcrowding and unsafe living conditions, along with limited access to clean water and healthcare, make slums hotbeds of both communicable and non-communicable diseases.



Resilience in the Face of Disasters

Housing quality can mean life or death in the face of natural disasters. This challenge comes hand-in-hand with better urban planning and infrastructure.



Prevention of Homelessness

Rates of homelessness are steadily increasing in both rich and poor nations alike. The health problems created by this paradigm are numerous, with high exposure to diseases of poverty, the elements, violent crime, and vector-borne illnesses.



Bangladesh 2014



CELEBRATING 10 YEARS

This Road Isn't Traveled Alone...

Thank you to every person who has helped make our mission at ARCHIVE Global achievable!

Volunteers and Employees

Chelsea Acosta
Nawale Abdous-Parker
Maria Alejandra di Fonzo
Hector Altamirano
Mercedes Alzaga
Sumi Amaty
Stefano Ambrosoli
Kachi Anukam
Rael Arias-Camison
Konstantinos Asimakopoulos
Geraud Bablon
Melissa Barnhart
Abhiroop Bhattacharya
Kevin Bingham
Alexandra Boogers
Loren Bordelon
Charles Burton
Charlotte Burch
Farron Blanc
Myra-Mae Cabantac
Chiara Castlebolognesi
Madeline Chan
Christine Chang
Esther Chang
Emily Chapman
Hirondelle Chatelard
Amy Cheung
Sangye Chodron
Keng Hua Chong
Raisa Chowdhury
Janet Chu
Agnieszka Chrakowiecka
Nora Ciano
Diana Ciechorska
Lara Cohen
Kia Collet

Rosie Cotterill
Tom Cowan
Tommaso Dalla Favera
Alexandra Davis
Jessica DeGeorge
Tatiane de Jesus
Lilla Dilliway
Sonia Diveres
Bobby Derival
Claire Detrick-Yee
Lydia D'Oyley
Fred Dunwoodie
Tom Eden
Sama El Saket
Michael Emery
Mattias Ernst
Corrine Faletto
Rebecca Fitzgerald
Monica Friday
Aya Fujimori
Charlotte Furet
Natalia Galvis
Jalisa Gilmore
Tom Green
Joy Gutierrez
Sabrina Godfrey
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Suzanne Hodges
Joelle Hopkin-Chen
Anna Houston

Maya Ito
Sebastian Jenkins
Olivia Johns-Yost
Despina Kalapoda
Ulla Karikoski
Riksum Kazi
Maggy Keet
Smeena Khan
Melissa Kiela
Seulki Kim
Zsafia Kimmel
Jan King
Taylor Klinkel
Emma Klock
Panagiotis Kourtesis
Katie Kozarek
Diana Krezelewski
Hazel Lalas
Anthony Lazarus
Xuan Ky Le
David Lee
Ying-Shan Lee
Ilari Lehtonen
Thalia Leng
Michael Lieberman
Oliver Llyod
Iris Malfetano
Sana Malik
Anjusha Mallaya
Kuukuwa Manful
Megan Marini
Jasmine Marrero
Verity Maylam
Nicola Mazzon
Greg McCardell
Natasha McEachron

Alison McKelvie
Paul McWilliams
Christiane Mertens
Bora Mici
Delliah Moinian
Martin Mulenga
Mindy Myers
Lana Newishy
Rachel Nguela
Maria Nicolaou
Kasavere Nolte-Wilson
Marcela Ospina Maziarz
Lisa O'Sullivan
Andrew Parker
Heenali Patel
Jimi Patel
Liesel Pimentel
Ashley Plyler-Campbell
Nataly Raab
Gerardo Ramirez
Nadine Rasheed
Noami Reiner
Daniel Roth
Sarah Ruel-Bergeron
Shumi Rushwaya
Stephanie Sauvage
Joseph Schuchter
Paul Segner
Iliasse Soliqui
Devang Shah
Anand Shankar
Kiran Sharma
Corey Sheppard
Oda Skagseth
Snehal Srikrishna
Cleo Stern

Raakhi Sunak-Williams
Moricia Sylvester
Jacquelin Tancredi
Stan Tankursley
Bobak Talebian
Lucia Todossantos Palero
Cecilia Torres
Monique Tsang
Alexandra Valerio
Linda Warshaw
Claire Weil
Stefanie Wessner
Lara Williams
Phillip Williams
Sarah Vassallo
Yashovardian
Jane Yost
Skyler Yost
Walter Yost
Gina Zaloom
Sangie Zaitsoff

Past and Present Board Members

Angela Aidala
Lenore Cooney
Kevin Davis
David Drake
Michael Fiegin
Al Foreman
Lena Mass-Cresnik
Gregory Martin
Kevin McGovern
Chris Nicholson
David Panton
Paul Scialla
Denise Williams
David Venderbush



A LOOK BACK: 10 Years at ARCHIVE


Started as a 3-year independent research project, in 2006 Peter Williams founded the ARCHIVE Institute.

Peter Williams worked alongside the World Bank on housing and health projects. These projects assisted Peter with professional development and growth.



Launch off the Haiti Project, Key e Sante. The project began with an Open Innovation Campaign, which invited designers from all over the world to create housing designs that addressed opportunistic respiratory infections associated with HIV/AIDS.

UBS Optimus Foundation

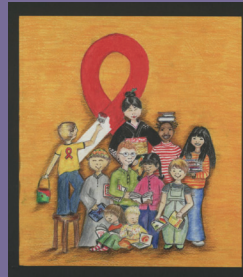
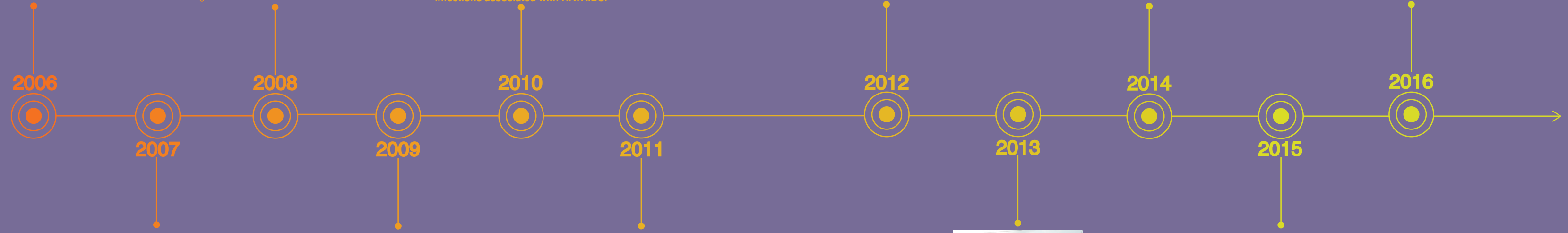

ARCHIVE Global named Charity of the Year by UBS!



Breathe Easy Camden focuses on developing and supporting trigger reduction strategies among 10 low-income families suffering from severe asthma and expanding knowledge of asthma prevention techniques among 50 caregivers of children with asthma.



Brought on as technical consultants, ARCHIVE was hired to impart expert knowledge on the prevention of vector-borne diseases through the improvement and maintenance of traditional housing in Namibia.



Poster competition to celebrate the efforts of children around the world as they assume a leadership role in the fight against HIV/AIDS.



University College London's Healthy Infrastructure Research Centre was host to ARCHIVE's early research on the link between tuberculosis and the environment.

Happy Healthy Households launched to address high TB infection rates among immigrant communities in the Borough of Brent, London. Community workshops taught TB prevention strategies and a photography exhibition of poor housing conditions engaged the community to improve living conditions in the borough.



Building Malaria Prevention launched in Yaounde, Cameroon to combat malaria through housing design using screened doors, windows and eaves, adequate ventilation, sewage and draining solutions to reduce the incidence of malaria.

Heath from the Ground Up, a pilot flooring project, was established in Bangladesh to replace dirt/mud floors with concrete flooring in homes. This intervention targets a major transmission pathway for pathogens.



HEALTH ISSUES WE'VE ADDRESSED

Asthma Camden, New Jersey, 2014



CONTEXT

Camden, NJ is one of the poorest urban areas in the United States and suffers from some of the highest rates of asthma-related hospitalizations in the state (ASP 2008-2013). A 2013 community health assessment found that 18% of Camden residents surveyed reported suffering from asthma.

PROJECT

Improved asthma-related health outcomes through the creation of healthy, trigger-free living environments and to reinvigorate interest in the scaled up application of a family-focused asthma prevention program.

OUTCOMES

- 10 household assessed and trained for trigger reduction during 4 months.
- 80% increase in self-reported indoor trigger identification.
- 100 community members made aware of trigger reduction strategies.

HEALTH ISSUES WE'VE ADDRESSED

Tuberculosis London Borough of Brent, London, UK, 2011



CONTEXT

London has been named 'the tuberculosis capital of the West.' Underserved inner city areas such as Brent and Newham have rates comparable to China, Russia, and Brazil - some of the highest in the world.

PROJECT

Two campaigns, Happy Healthy Households and Hanging in the Air, were executed in partnership with the UK's National Health Service.

OUTCOMES

- 540 children participated in a workshop at local schools.
- 30 community health workers trained in risk assessment.
- 30,000 people informed on prevention, symptoms and treatment.
- 3 years later the reported incidence of tuberculosis had decreased by 20%

HEALTH ISSUES WE'VE ADDRESSED

HIV/AIDS Saint-Marc, Artibonite, Hati, 2012



CONTEXT

Foundation Esther Boucicault Stanislas (FEBS), provides medical care and advocacy for people with HIV/AIDS and the LGBT community in Haiti.

These marginalized communities benefit from shelter, access to treatment, and reduced exposure to opportunistic infection such as TB.

PROJECT

The project will provide an office, health clinic, and vocational school for FEBS, along with transitional housing units and basic infrastructure.

OUTCOMES

- 3,000 people provided with clean water.
- 15,000 patients provided with health services.
- 10,000 people provided with improved roads to local markets..
- 600 people trained.

HEALTH ISSUES WE'VE ADDRESSED

Malaria Yaounde, Cameroon, 2013



CONTEXT

- 90% of the world's population that is at risk for malaria lives in Africa
- 20% of households use insecticide treated bed nets.

PROJECT

- 264 homes were improved by the project.
- Housing improvements target common mosquito entry points.

OUTCOMES

- Reduce malaria rates by 20% amongst the 1320 beneficiaries.
- 6,000 people were trained for home improvement techniques.
- 58,000 members of the community were made aware of malaria risks.

HEALTH ISSUES BEING ADDRESSED

Diarrheal Disease Delhi, India, present



CONTEXT

The World Health Organization (WHO) reports that **88%** of diarrheal disease around the world is attributable to poor access to water and sanitation and causes **2.2 million** deaths annually.

PROJECT

The project focused on constructing improved sanitation facilities in 60 houses in the socio-economically vulnerable communities of Ishwar Colony and Harijan Basti.

OUTCOMES

- 2** technical design workshops with community participation.
- 50** households provided with improved sanitation facilities.
- Promoted local awareness on home sanitation, hygiene and health.

HEALTH ISSUES BEING ADDRESSED

Leishmaniasis Dhaka, Bangladesh, present



CONTEXT

20.5% of Bangladesh's population dies every year from disease caused by deprivations in living standards such as flooring and sanitation.

PROJECT

- The project replaces dirt floors with cement and directs workshops on healthy living conditions and sanitation practices.
- Our pilot project replaces the floors of 10 homes, reaching 70 people in two weeks.

OUTCOMES

- 75%** of parasitic infections eliminated in children under age of **5**.
- 4,000** people trained on healthy housing and sanitation.
- 85%** Less money spent on medications for project families.



Cameroon 2013



Bangladesh, 2017



Haiti 2012



Namibia 2016



Cameroon 2011



WHERE WE WORK





THE NUMBERS



280
Round trip flights



18,000+
Lives saved through long-term disease protection



4,500+
Homes



500,000+
Beneficiaries reached



6,700+
Children live to see age 5



5,000,000+
Global audience reached through publications and broadcasts

ARCHIVE GLOBAL IN 2016

Article 25 Partnership

In 2016, ARCHIVE formally partnered with Article25, an award-winning UK non-profit architectural organization that designs, builds, and manages projects centered on disaster relief and poverty alleviation.

Named for the 25th Article in the UN’s Universal Declaration of Human Rights – the universal right to a standard of living that provides adequate food, shelter, and medical care, social services, and the special protection for mothers and children – the organization seeks to embody these aspirations in its work.

Technical Consultancy

Starting in 2016, ARCHIVE Global expanded its services to include technical consulting. Using our 10+ years of experience, ARCHIVE Global lends its expertise to corporations, non-profit organizations, and government agencies to provide insight and direction on projects that focus on the intersection between housing and health.



NAMIBIA

Project Outiline

The Namibia Ministry of Health has set the ambitious goal of **malaria elimination** in the country by 2020. Despite seeing steady declines in national infection rates, fewer than 5K cases in 2013, since 2014 a steady rise in cases has occurred, over 15.5K in 2014 alone. It is critical to ensure that when and where elimination is successful, it is sustained, and that a strong **strategy** is in place **to prevent reestablishment of malaria** in receptive areas.

Approximately **80% of malaria transmission occurs indoors**. Poor quality housing has been identified as a risk factor for malaria, especially in areas where the mosquito vector bites indoors and can enter the house through gaps in the ceiling, eaves, windows and doors. **Housing improvements** have the potential to play this vital role and help achieve and sustain malaria elimination in Namibia.



NAMIBIA

Project Specifications

Impart expert knowledge to relevant stakeholders on the prevention of vector-borne diseases through the improvement and maintenance of traditional housing in Namibia. Interventions will take place in the regions of Kavango West, Omusati, Otjozondjupa, Zambezi.

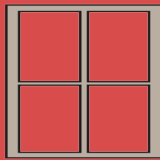
This project had two components (I) technical training and (II) community training:

(I) The goal of the technical training was to provide relevant actors with technical knowledge of building/renovating/improving traditional housing.

- Training participants are able to build/renovate/improve traditional houses in order to reduce vector-borne diseases
- Training participants can share with others their knowledge on how to build/renovate/improve traditional houses in order to reduce vector-borne diseases

(II) The goal of the community training is to provide relevant key community health leaders (including Community Health Workers, Environmental Health Practitioners, etc) with knowledge of how to prevent the spread of vector-borne diseases through housing improvements

- Key community health leaders are able to maintain housing improvements
- Key community health leaders can train homeowners and beneficiaries on how to maintain their own housing improvements



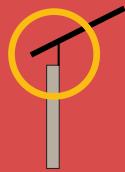
933

Windows



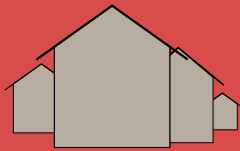
1,121

Doors



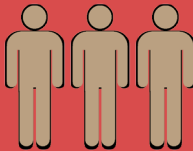
502

Eaves



339

Homesteads



1,695

Beneficiaries



1,020

Children



Namibia 2016



LOOKING AHEAD

ARCHIVE believes in sharing the lessons we've learned from our projects around the world. 10 years of working in multiple countries on 4 continents with varied partners has taught us a lot. In the coming years, ARCHIVE will be partnering with diverse global partners as advisors on a wide range of topics. These include the use of the built environment as vector control against insect borne diseases such as malaria and dengue, technical training for health workers and local technicians, and the implementation of housing improvement projects.



FINANCIALS

Revenue & Other Support

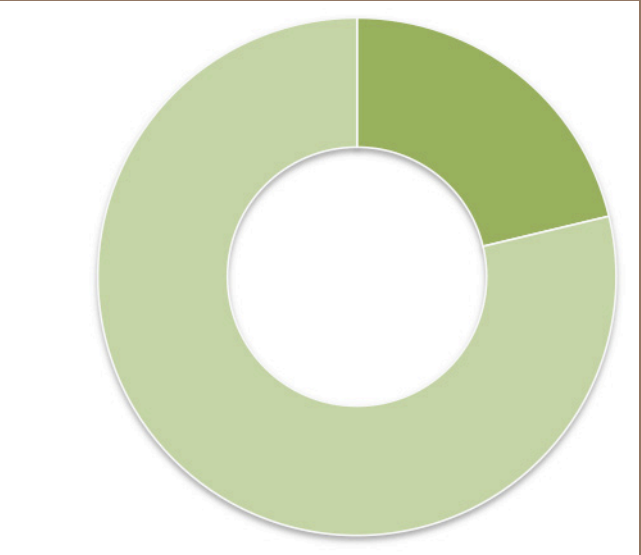
Grants	\$9,854.00
Individual & Corporate	\$36,511.00
Total	\$51,225.00

Expenses

Program Services	\$33,042.00
Supporting Services	\$16,042.00
Total	\$49,242.00

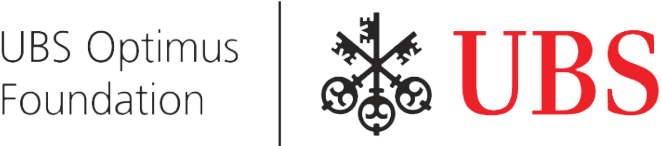
Assets & Liabilities

Total Assets	\$21,058.30\$
Total Liabilities	-
Total	\$49,242.00





Thank you to the UBS Optimus Foundation for its generous support in advancing our mission



Partners and Supporters

Article 25
 Association of Development for Economic and Social Help (ADESH)
 Clinton Health Access Initiative
 Delos Building Wellness
 DXA Studio
 Global Health Corps
 Malaria Consortium – Cameroon Coalition Against Malaria (MC-CCAM)
 Museum of the City of New York
 National Health Service – UK (NHS-UK)
 New York Academy of Medicine
 Patrick Cullina: Horticulture Design + Consulting
 University of Yaounde

Individuals

Raakhi Williams
 Nigel-Ann La Qua Williamson

An Extra Special Thanks to

Alexandra Davis
 Emma Klock
 Linda Warshaw



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Auditors: M. Goldfine CPA

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