CORPORATE ACTION ON MALARIA: BEST PRACTICES AND GUIDANCE
CAMA Overview

For the past decade, the Corporate Alliance on Malaria in Africa (CAMA) has mobilized business action on malaria—recognizing that the assets of the private sector are a valuable resource in the fight to protect employees, communities and consumers from malaria. Today, CAMA member companies both lead and support innovative malaria prevention, control and treatment activities and collectively deploy millions of dollars to programs that serve the needs of malaria-affected people and communities. In 2018, CAMA is intensifying its effort to end malaria for good by calling for greater funding, political will, awareness and increased collaboration efforts across industries and stakeholders.

CAMA Members:

Access Bank

Chevron

Aliko Dangote Foundation

Exxon Mobil

Nigerian Breweries Plc.

Nigeria LNG.

Sumitumo Chemical

Syngenta

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<table>
<thead>
<tr>
<th>ACRONYMS</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMA</td>
<td>Corporate Alliance on Malaria in Africa</td>
</tr>
<tr>
<td>SP</td>
<td>Sulphadoxine-Pyrimethamine</td>
</tr>
<tr>
<td>IPTP</td>
<td>Intermittent Preventive Therapy in Pregnancy</td>
</tr>
<tr>
<td>PHN</td>
<td>Private Sector Health Alliance of Nigeria</td>
</tr>
<tr>
<td>IRS</td>
<td>Indoor Residual Spraying</td>
</tr>
<tr>
<td>LLINs</td>
<td>Long Lasting Insecticide-Treated Nets</td>
</tr>
<tr>
<td>IPT</td>
<td>Intermittent Preventive Treatment</td>
</tr>
<tr>
<td>SMC</td>
<td>Seasonal Malaria Chemoprevention</td>
</tr>
<tr>
<td>LGAs</td>
<td>Local Government Areas</td>
</tr>
<tr>
<td>DAMEP</td>
<td>Development Africa Malaria Elimination Programme</td>
</tr>
<tr>
<td>CHAI</td>
<td>Clinton Health Access Initiative</td>
</tr>
<tr>
<td>CDDs</td>
<td>Community Drug Distributors</td>
</tr>
<tr>
<td>PPMVs</td>
<td>Proprietary Patent Medicine Vendors</td>
</tr>
<tr>
<td>NHIM</td>
<td>Nigeria Health Innovation Marketplace</td>
</tr>
<tr>
<td>ADPP</td>
<td>Angola Ajuda de Desenvolvimento de Povo para povo Angola</td>
</tr>
<tr>
<td>IPTp</td>
<td>Intermittent Preventive Treatment</td>
</tr>
<tr>
<td>WWARN</td>
<td>WorldWide Antimalarial Resistance Network</td>
</tr>
<tr>
<td>NBPlc</td>
<td>Nigerian Breweries Plc</td>
</tr>
<tr>
<td>RBM</td>
<td>Roll Back Malaria</td>
</tr>
<tr>
<td>RDT</td>
<td>Rapid Diagnostic test</td>
</tr>
<tr>
<td>ACTs</td>
<td>Artemisinin Combination Therapies</td>
</tr>
<tr>
<td>SCiN</td>
<td>Shell Companies in Nigeria</td>
</tr>
<tr>
<td>ND</td>
<td>Niger Delta</td>
</tr>
<tr>
<td>ITNs</td>
<td>Insecticide Treated Nets</td>
</tr>
<tr>
<td>IPM</td>
<td>Integrated Pest Management</td>
</tr>
<tr>
<td>MoUS</td>
<td>Memoranda of Understanding</td>
</tr>
<tr>
<td>NAFDAC</td>
<td>Nigerian Agency for Food and Drugs Administration and Control</td>
</tr>
<tr>
<td>IFRC</td>
<td>International Federation of Red Cross and Red Crescent Societies</td>
</tr>
<tr>
<td>NMPE</td>
<td>Nigeria’s National Malaria Elimination Programme</td>
</tr>
<tr>
<td>EMTS</td>
<td>Emerging Markets Telecommunication Services</td>
</tr>
<tr>
<td>CSR</td>
<td>Corporate Social Responsibility</td>
</tr>
<tr>
<td>MDF</td>
<td>Mediatrix Development Foundation</td>
</tr>
</tbody>
</table>
CORPORATE ALLIANCE ON MALARIA IN AFRICA
2018 CASE STUDIES

A Message from the Nigerian Minister of State for Health

SECTION I

2018 - CASE STUDIES

- Access Bank
- Aliko Dangote Foundation
- ExxonMobil
- Nigerian Breweries
- Shell
- TANA Netting
- 9mobile

SECTION II

WORKPLACE MALARIA RESOURCES

- World Malaria Report Data
- Workplace Program Guidelines

PHOTO CREDITS
A Message from the Minister of State for Health

About half of the world’s population is at risk of malaria; and it remains a major public health challenge, especially in Africa, which bears nearly 90% of the global burden and accounts for 91% of deaths. About 216 million cases were reported globally in 2016, and a child died every two minutes.

Nigeria accounts for the highest number of malaria cases and deaths in sub-Saharan Africa, bearing a disproportionately high share of the global disease burden. Nearly 300,000 children die every year, and the economy loses $1.1 billion each year in treatment costs and malaria-related workplace absenteeism.

The National Malaria Strategic Plan (2014-2020) provides a roadmap for Nigeria to move towards elimination, and evidence-based interventions over the last decade have yielded a decline in new case and death rates. Since 2010, there has been a 35% drop in the number of under-five children testing positive for malaria, while 69% of families own at least one insecticide-treated bed net and more than a third of pregnant women took at least two doses of Sulphadoxine-Pyrimethamine (SP) prophylaxis, as part of the Intermittent Preventive Therapy in Pregnancy (IPTP) initiative.

Despite this progress, we must accelerate our collective effort to fight this terrible disease. The private sector plays an integral role in the malaria elimination drive. Companies have been successful in shaping malaria policies; impacting communities through workplace initiatives, product and service innovations, advocacy, research and investment. Four areas where the private sector can be especially influential are:

- **Innovation:** In partnership with academic researchers, Companies are engines for medical innovation. Indeed current needs present immediate opportunities for malaria-related innovations: in diagnostics, drug and vaccines development, vector control and surveillance.

- **Policy:** The private sector can be an important partner in shaping comprehensive national malaria strategies in endemic countries to enhance, facilitate and sustain effective interventions.

- **Implementation:** Companies currently exercise leadership in education and prevention strategy like indoor residual spraying, and in treatment; thus protecting their workforce and surrounding communities from malaria through awareness creation and prevention programs.

- **Financing:** Besides providing resources in the three areas above, the private sector has the financial management acumen to build the community’s capacity and create opportunities for innovative financial partnerships.

Companies featured in this publication are paving the way for broader private sector engagement in malaria elimination. From multisector partnerships to development of innovative financing mechanisms, their malaria programs represent important examples of how we can work together to fight this disease. Each case study highlights the goals, impacts and critical factors for the success of the programs detailed. This report aims to share experiences and best practices for malaria control and inspire other Companies to step up and effect change.

The coming years will be a period of great opportunity for business to contribute to rapid acceleration of rate of progress in the global war against malaria. Success will require transparency from all partners, concerted efforts to address system challenges, and a continuing commitment to eliminating the scourge once and for all.

I invite you to join our Government, GBCHealth, CAMA and the partners highlighted in this report, to work collectively to ensure talk leads to action, and action leads to saving lives.

Dr. Osagie Ehanire  
Minister of State for Health  
Federal Republic of Nigeria
SECTION I

CASE STUDIES

The case studies in this publication showcase malaria workplace programs. Each study expands on the program’s aims, results and success factors, in an attempt to share experiences and knowledge among private sector companies.
Corporate Action on Malaria: Best Practices and Guidance
Program Description

The Private Sector Health Alliance of Nigeria (PHN) and Access Bank, under the leadership of the CEO of Access Bank Dr. Herbert Wigwe, launched the Malaria-to-Zero Initiative as an innovative financing platform to galvanize private sector resources and capabilities for sustained support towards averting at least 1 million malaria cases and deaths by 2020. This initiative complements government’s effort in achieving its malaria pre-elimination goals by 2020.

Through demand generation programs, training of community health workers, partnership with civil society organization and community groups, Malaria to Zero has reached over 200,000 women in 18 months. Also, the initiative leverages technology and media tools to accelerate the impact of malaria behavior change communication programs across all six geo-political zones in Nigeria.

Prevention

Multiple prevention strategies driven by significant scale-up of Indoor Residual Spraying (IRS), universal coverage of long lasting insecticide-treated nets (LLINs) and strategic use of larviciding will be implemented. Use of Intermittent Preventive Treatment (IPT) with an antimalarial drug during pregnancy such as sulphadoxine-pyrimethamine (SP) for pregnant women will be invigorated while also strategically deploying seasonal malaria chemoprevention (SMC).

Treatment

All persons with malaria seen in private, public health facilities or community agents will receive prompt treatment with an effective anti-malarial drug by 2020.

This will be achieved by promoting availability of appropriate antimalarial medicines including for severe malaria.

Surveillance and Reporting

At least 80% of health facilities in all local government areas (LGAs) will report routinely on malaria by 2020. This will be with stronger emphasis on the use of technology-driven platforms and deployment of the DHIS and HMIS. The use of SMS platforms for feeding information from peripheral facilities to central systems will be introduced.

Demand Generation

Through community engagement activities – community group meetings, focus group discussions, door-to-door outreach, and information, communication and education materials via online and offline platforms – the partners will reach 20 million Nigerians to improve their health seeking behavior on malaria prevention, treatment and management.

Sustaining Impact

The Initiative aims to mobilize at least 50 private sector organizations to commit to consistently mobilizing their resources and competence for malaria programs in Nigeria. The partners will convene high-level stakeholders’ sessions for knowledge sharing on accelerating the impact of malaria programs in Nigeria.

Effective Demand Creation

In line with the initiative’s objective to provide life-saving health information on malaria to pregnant women, mothers of children under-five, and people living in low-resource settings, Access Bank designed highly engaging brochures, fliers, posters, videos and health...
materials to engage communities in groups and through door-to-door outreach in line with the National Malaria Elimination Program guidelines. The partners also used popular radio and television programs with wide coverage to reach people in their preferred language. Additionally, Access Bank and the PHN creatively used different social media platforms and influencers to educate the public on best practices in malaria prevention, treatment and management.

The Malaria to Zero initiative has distributed 30,000 LLINs across Nigeria. Beyond the distribution of LLINs, in line with the Initiative’s objectives, the partners intensified monitoring, education and community engagement activities to follow up with individuals and families encouraging them to use LLINs and dispel myths that prevented proper usage.

Malaria to Zero also partnered with primary health centers, community health workers and women’s associations to sustain the impact of the health promotion messages at individual and community levels.

We also partnered with primary health centers, community health workers and women’s associations to sustain the impact of our health promotion messages at individual and community levels.

**Critical Success Factors**

Multi-sector partnerships are essential to the achievement of the initiative’s overall objective of malaria elimination.

Stakeholder engagement: To achieve a successful and sustainable malaria program, it is important to key into the government strategy and help them and their existing partners identify key opportunities to engage with the Malaria to Zero initiative. To achieve this, the partners implemented activities in the following areas:

**At the Federal level** - effective advocacy involving stakeholders in the executive and legislative arms of government, Federal Ministry of Health, National Malaria Elimination Programme, development and local implementing partners. This was necessary to ensure strategic alignment to current consensus on the national pre-elimination agenda.

**At the State level** - high-level advocacy visits were made to State Governors, as facilitated by principal stakeholders such as the Commissioners of Health, Directors of Primary Healthcare Development Agencies, State Malaria Control Agencies. Subsequently, broader stakeholder forums were held to align on implementation strategies based on specific realities.

**At the Local government and community level** - where major implementation activities were executed, collaboration with local governance mechanisms was achieved. This bottom-up approach was necessary to ensure optimal community participation and improved acceptance of interventions during and beyond implementation periods.

**Technical Support:**

Access Bank and the PHN worked with HACEY Health Initiative as the lead implementing partner. Through this partnership, the Malaria to Zero Initiative identified community-based associations, community groups, civil society organizations and community influencers training them to support the implementation of community development interventions and sustain its impact. The partners have engaged over 100 community development groups and non-profits through this initiative.

**Website:** https://www.accessbankplc.com/

**Program Overview:** Malaria-to-Zero Initiative is a platform to engage high-level stakeholders and decisions makers, create conducive platforms, analyze risks and opportunities.

**Goals:** The goal of the Malaria to Zero initiative is to develop an innovative financing mechanism to galvanize private sector resources and capabilities for sustained support towards averting at least 1 million malaria cases and deaths by 2020.

**Population Focus:** Pregnant women, mothers of children under-five and children under-five across the six geo-political zones in Nigeria.

**Results:**

- 30,000 long lasting insecticide-treated nets have been distributed across Nigeria
- 273,000 people have been reached in rural communities with malaria information
- 357 community groups have been engaged with malaria treatment and prevention information
- 4,537 pregnant women have received long lasting insecticidal nets (LLINs)
- 15,000 people have been reached through Seminars on Malaria to Zero
Corporate Alliance on Malaria in Africa

In partnership with the National Malaria Elimination Program of the Federal Ministry of Health, and Corporate Alliance on Malaria in Africa (CAMA), the Dangote Foundation developed a comprehensive strategy to engage the private sector as partners in malaria elimination in Nigeria. Through its strategy launched in November 2016, the Foundation promotes multi-sector partnerships to increase the level and impact of private sector support of malaria control and elimination. It also clearly articulates key actions required from the private sector including: communication, capacity building, information technology, direct funding, workplace malaria control, malaria control commodities as well as in-kind health services, focusing on vulnerable populations such as women and children. Aliko Dangote is leading the private sector within this strategy in his capacity as United Nations Malaria Ambassador for Nigeria.

Addressing Malaria in the Workplace in Nigeria

The Foundation has demonstrated effective approaches to address malaria in the workplace and their communities by providing financial support to the Development Africa Malaria Elimination Programme (DAMEP) to implement a comprehensive program for staff and community members, which includes malaria education and treatments at all its business locations, and distribution of prevention tools and supplies to the workers in the factories and fields. This program is being implemented across five factory locations in Nigeria, namely: Ibeju-Lekki in Lagos state, Ibe in Ogun state, Obajana in Kogi state, Gboko in Benue state, and Kura/ Bebeji in Kano state. Plans are underway to implement this across the country.

Pilot Seasonal Malaria Chemoprevention (SMC) Program in the north of Nigeria

The Foundation also provided funding and technical assistance to the Clinton Health Access Initiative (CHAI) in 2013 to pilot a seasonal malaria chemoprevention (SMC) program in the northern part of Nigeria. Plans are in place to replicate and scale up this effort while leveraging private sector capabilities, advocacy, innovation and resources to complement government efforts in advancing health outcomes and eliminating malaria in the country. Aliko Dangote is leading the private sector in this alliance as a Co-Chair.
leveraging resources with other partners. CHAI worked with the government to identify three different delivery models in order to understand which would be most suitable for scale-up across northern Nigeria. The three delivery methods selected for piloting were: fixed points in public health facilities, door-to-door through community drug distributors (CDDs), and in the private sector using Proprietary Patent Medicine Vendors (PPMVs).

**Critical Success Factors**

**Private Sector Engagement**

Dangote Foundation is leveraging its significant resources in the fight against malaria by bringing private sector stakeholders together to better align with and complement the government’s effort to achieve its malaria pre-elimination goals by 2020, as outlined in the National Malaria Strategic Plan. By working through CAMA, Dangote Foundation is able to coordinate malaria activities with other private sector partners, share best practices and engage through a neutral platform with government actors including the NMEP.

**Prioritizing Innovation**

Promising health innovations that tackle healthcare challenges and catalyze progress in improving health outcomes are essential to ending malaria. Nigeria Health Innovation Marketplace (NHIM) is a convergence platform set up by the PHN for innovators, entrepreneurs, investors, healthcare practitioners/advocates, NGOs, development partners and all key actors in the healthcare value chain from conceptualizer to end user. The marketplace explores and shapes alternative approaches to improving healthcare in Nigeria. In this marketplace, innovations – technologies and processes alike - are borne, made visible, piloted and ultimately provided capital to launch.

**Website:** [https://www.dangote.com/](https://www.dangote.com/)

**Program Overview:** The Foundation promotes multi-sector partnerships to increase the impact of private sector support of malaria control and elimination activities including communication, capacity building, information technology, direct funding, workplace malaria control, malaria control commodities as well as in-kind maternal and child health services.

**Goals:** The overall aim is to reduce the epidemics and burden of malaria and combat water-borne diseases and other communicable diseases in Africa including Nigeria.

**Population Focus:** Nigeria and continent-wide

**Results:**

- Successful engagement with the private sector which led to effective communication, capacity building, direct funding, malaria control and more
- Innovative financing platform launched for malaria to pool private sector resources and capabilities for sustained support in averting 1 million malaria cases by 2020
- Over 8,000 LLINs distributed among target communities
- Over 1,800 people treated on site for malaria with Artemisinin-based Combination Therapy
- Over 45,000 children reached with full treatment courses of an antimalarial medicine during the malaria season in areas of highly seasonal transmission in northern Nigeria.
Corporate Alliance on Malaria in Africa

EXXONMOBIL

ExxonMobil Corporation uses technology and innovation to help meet the world’s growing energy needs. ExxonMobil holds an industry-leading inventory of resources and is one of the world’s largest integrated refiners, marketers of petroleum products and chemical manufacturers. Over the last 135 years, ExxonMobil has evolved from a regional marketer of kerosene in the U.S. to the largest publicly traded petroleum and petrochemical enterprise in the world.

Program Description

ExxonMobil’s involvement in the fight against malaria dates back to the construction of the Chad-Cameroon oil pipeline in 2000, when more employees were missing work because of malaria than any other health or safety threat. In response, ExxonMobil developed a corporate workplace malaria control program, offering free malaria services alongside other health care aspects at project facility clinics.

As a major employer and investor in many malaria-endemic countries, ExxonMobil has witnessed the devastation of this disease firsthand and seen malaria’s impact on the lives of its employees, their families and their communities. That is why ExxonMobil leverages its internal capabilities and foundation resources to combat the disease. ExxonMobil is one of the largest private-sector contributors to the fight against malaria.

Workplace Control Program: Keeping Employees and Their Communities Healthy

Employees are at the core of ExxonMobil’s business, and keeping them healthy is essential to their productivity, families and, in turn, to the success of the company.

ExxonMobil’s corporate workplace malaria control program offers free malaria services alongside other health care aspects at operation site clinics. The program uses the “ABCD” approach, offering Awareness education, Bite prevention measures, Chemoprophylaxis and early Diagnosis and treatment services combined with an extensive monitoring and evaluation framework.

ExxonMobil partners with a variety of providers to implement vector control services, expand laboratory capacity, distribute malaria kits, and disseminate country and disease information to its employees and contractors. This approach is supported by a steering committee of senior leaders and safety and health experts who meet periodically to review progress and sponsor program interventions.

ExxonMobil works with partners to identify innovative solutions that improve its workplace malaria control program. For example, for years the only test for compliance with required chemoprophylaxis regimens had to be shipped from field sites to a laboratory in the U.S. for analysis. This was expensive and results took weeks to receive. In partnership with the French military, ExxonMobil researchers developed a rapid diagnostic that can be used in the field and provide results within 10 minutes.

ExxonMobil’s workplace malaria control program also takes a community approach to health, extending malaria prevention and other health services beyond its employees to benefit surrounding communities. These health initiatives are important everywhere ExxonMobil operates, but especially in areas with health systems that are underdeveloped or difficult to access.

By collaborating with a range of stakeholders to reduce the burden of malaria, ExxonMobil helps to protect
the health of its employees, communities and business operations around the world. The workplace control program has made significant progress globally, averting more than 2,000 cases of malaria since 2000. No ExxonMobil employee or contractor has died of malaria since 2007.

**The ExxonMobil Foundation: Partnering for Success**

Building on the success of the workplace control program that began in Chad and Cameroon, ExxonMobil recognized a need and responsibility to contribute to the fight against malaria on a larger scale. The ExxonMobil Foundation Malaria Initiative has helped expand malaria control around the world, and has reached more than 125 million people.

Sustainable, long-term investments are key to making progress against malaria. That’s why ExxonMobil partners with leading organizations to implement programs that both contribute to the fight today and ensure future progress. With its partners, the ExxonMobil Foundation supports the fight against malaria across four areas:

**Building Capacity and Awareness**

The ExxonMobil Foundation works with partners to build capacity among health workers and raise awareness of malaria prevention and treatment.

Increasing community awareness of malaria prevention strategies, especially among young people, requires innovative approaches. ExxonMobil Foundation partners such as Africare, Grassroot Soccer and Special Olympics use the convening power of sports to deliver malaria education curricula. Similarly, the foundation has supported Ajuda de Desenvolvimento de Povo para povo Angola (ADPP Angola) and Malaria No More to teach malaria prevention and the correct use of bed nets to youth.

Critical to these efforts is building skills among health care workers to meet demand for prevention and treatment services. Jhpiego, Seed Global Health and other ExxonMobil Foundation partners have trained hundreds of thousands of health care workers to better prevent, diagnose and treat malaria in high-burden communities.

**Expanding Access**

ExxonMobil works with partners to distribute insecticide-treated bed nets, rapid diagnostic tests, intermittent preventive treatment (IPTp) for pregnant women and antimalarial drugs. Access to these tools is essential to malaria elimination efforts.

By working with local affiliates, Population Services International and the ExxonMobil Foundation are working to increase access to artemisinin-based combination therapy and rapid diagnostic tests as part of a strategy to increase pediatric health in regions along the Chad-Cameroon pipeline. In Angola, the ExxonMobil Foundation has supported projects led by the President’s Malaria Initiative to distribute tens of thousands of bed nets, disseminate a Ministry of Health malaria training manual and expand access to diagnostic testing.

**Accelerating Innovation**

As antimalarial resistance spreads, new tools will become even more essential to the fight against malaria. The ExxonMobil Foundation supports scientists at the University of Oxford who are addressing antimalarial resistance as well as researchers at the Medicines for Malaria Venture and PATH Malaria Vaccine Initiative who are developing new drugs and vaccines.

The foundation also supports researchers at the Harvard T.H. Chan School of Public Health, including the ExxonMobil Malaria Scholar in Residence, to employ sophisticated laboratory approaches to understand the underlying causes of drug resistance, identify and screen potential new drugs and drug targets, rapidly translate new findings into practical treatments, and train researchers and public health professionals from the U.S. and malaria-endemic regions.

Recognizing the power of collaboration, the ExxonMobil Foundation also facilitates the international exchange of research by supporting organizations like the WorldWide Antimalarial Resistance Network (WWARN) and sponsoring events like the Multilateral Initiative on Malaria Pan African Conference.

**Training Tomorrow’s Leaders**

Developing the next-generation of global health leaders will help to drive progress against malaria.

To help advance understanding of the complex science of malaria, the ExxonMobil Foundation sponsors a foundational leadership development course for malaria elimination, the “Science of Eradication: Malaria”, and worked with Harvard University to develop a free, online version of the course that reaches thousands around the world. In 2017, ExxonMobil supported “Rethinking Malaria: The Science of Eradication Symposium” a three-day conference organized by Harvard University focused on rethinking the future of malaria prevention, control and eradication.
Since 2011, the ExxonMobil Global Health Scholars at the University of Oxford program has supported promising students from malaria-endemic countries as they pursue global health-focused Master’s degrees. Following graduation, many Scholars have gone on to assume leadership roles at health organizations, return to medical practice or pursue additional training at renowned research institutions. Beyond academic training, the ExxonMobil Foundation supports emerging global health leaders to expand their programmatic experience through its support to Global Health Corps.

**Critical Success Factors**

**Robust Partnerships that Strengthen Health Systems**

Philanthropy and workplace malaria control programs are not sustainable replacements for robust health systems. That is why ExxonMobil works with partners to strengthen health systems and build capacity where it operates, so that the health sector can prevent, detect and rapidly respond to disease outbreaks.

These investments are needed at multiple levels, from supporting basic components of health care delivery to developing new tools to fight existing and emerging health risks. For example, ExxonMobil shared blood samples from its workforce with researchers monitoring malaria drug resistance in West Africa to enhance their understanding of how potential markers of resistance are changing in the region.

**Private Sector Expertise**

ExxonMobil leverages its unique private sector expertise to help partners solve complex challenges in the fight against malaria. This includes supply chain consultations on bed net distribution, medical research and collaboration with academia, monitoring and evaluation assistance, high-level awareness raising through marketing and advertising, and convening and influencing opinion leaders and policy makers.

ExxonMobil also partners with governments, NGOs and other private companies that face similar health challenges to share best practices and offer resources to strengthen their capacity in communications and advocacy. For example, in Angola, ExxonMobil participates in the National Malaria Control Forum to align their public health initiatives with national guidelines, and coordinate with the government and other partners to address emerging health concerns.

**The Next Generation of Global Health Leaders**

The next generation of leaders is essential to driving progress against malaria. Fostering the development of these leaders requires investing in their education and training to ensure they have the skills and experiences needed to beat malaria.

The ExxonMobil Foundation funds academic scholarships for students from malaria-endemic countries to attend the University of Oxford, helps emerging leaders gain field experience, and works with partners to train health care workers and youth leaders who can tackle malaria within their communities. These investments are helping to build a cadre of empowered individuals with the commitment and expertise needed to lead the next chapter in the fight against malaria.

**Website:** [http://corporate.exxonmobil.com/](http://corporate.exxonmobil.com/)

**Program Overview:** ExxonMobil is part of the international effort to prevent, treat and eliminate malaria. The company fights malaria through its robust workplace malaria control program and ExxonMobil Foundation investments and partnerships.

**Goals:** To equip communities and workers with the skills and tools they need to fight malaria while investing in sustainable solutions that will support future progress against the disease.

**Population Focus:** ExxonMobil’s Medicine and Occupational Health Department works to ensure the health and safety of 71,000 employees and global affiliates across six continents. The ExxonMobil Foundation supports community programs that have reached more than 125 million people worldwide.

**Results:**

- Since 2000, ExxonMobil’s workplace malaria control program has averted 2,000 cases of malaria. No ExxonMobil employee has died of malaria since 2007.
- ExxonMobil Foundation partners have delivered 14.4 million bed nets, administered more than 4.7 million doses of antimalarial treatments and distributed over 3 million rapid diagnostic kits.
- The ExxonMobil Foundation has supported the training of nearly 650,000 health care workers to ensure that interventions against malaria are used effectively.
- 30 ExxonMobil Global Health Scholars have completed Master’s degrees at the University of Oxford.
NIGERIAN BREWERIES

Nigerian Breweries Plc (NBPlc) was incorporated in 1946 and in June 1949, the company recorded a landmark when the first bottle of STAR lager beer rolled off the Lagos Brewery bottling lines.

Program Description
Nigerian Breweries Workplace Malaria Program was initiated in 2003 as part of the Roll Back Malaria (RBM) Program to track high incidences of malaria cases, with its attendant loss of man hours as result of the excuse days given to the sick employees. Components of the program include: health education and awareness-building activity, monthly provision of insecticides to all employees, provision of four long lasting bed nets for each employee for the use by his/her family members, provision of diagnostic tools in each brewery clinic (e.g Rapid Diagnostic test kits (RDT) and microscopy), prompt treatment of confirmed malaria cases and provision of necessary chemo-prophylaxis for expatriates, sicklers, pregnant and other vulnerable individuals.

Awareness and Training
The target is to reduce the frequency of malaria cases in beneficiaries. It is achieved using different communication channels/activities. Activities are implemented through:

- Road shows within the breweries on various strategies to combat malaria
- Brewery community sensitization to increase community awareness, participation and ownership
- Information Education and Communication materials distributed as dissemination materials

Chemoprophylaxis for Expatriates and Populations at Risk like Pregnant Women and Sicklers
The aim is to protect all expatriates, pregnant women, their newborn and children under five from the ill-effects of malaria, thereby contributing to the reductions in morbidity and mortality from malaria.

Expatriates are given prophylactic medicine on entry into the country, and provided with mosquito repellant creams to be used when necessary. In addition, they are counseled them on the need to adhere to the prescribed prophylactic medication. Also those with malaria are promptly treated.

Pregnant women are routinely given Sulphadoxine Pyrimethamine (SP) for Intermittent Preventive Treatment -IPT 1, IPT 2 &IPT3 of malaria for free. They are also provided with LLINs. Treatment is provided free for all employees and their family members. Beneficiaries with sickle cell disease are also regularly given Paludrine for prophylactic treatment of malaria.

Diagnostics Using Point of Care Testkit (RDT) and Microscopy.
Malaria is not the only cause of fever in these regions. Therefore, there is the need for quality diagnosis. Nigerian Breweries clinics no longer treat malaria presumptively, confirmation of malaria diagnosis through testing is mandatory before giving antimalarial medicines. For diagnosis, the clinics use the best of the RDTs, which are sensitive to all species of malaria parasite. These RDTs are regularly being reviewed and updated to the most sensitive RDT available globally,
hence, improving management of malaria infections.

**Treatment Using ACT Combination Therapy**

Artemisinin Combination Therapies (ACTs) antimalarials are stocked in all brewery clinics for the management of all confirmed cases of malaria. Either RDT and/or microscopy is/are used for confirmation of diagnosis.

**Critical Success Factors**

**Successful Partnerships: Heineken**

Nigerian Breweries Plc in partnership with Heineken Africa Foundation approved projects to support the provision of insecticide treated nets for some hospitals and selected communities in Nigeria. Funding was provided for the purchase of ITNs. The objective was to provide create awareness on the use of ITNs and reduce malaria infection.

**Integrated Prevention/Treatment Approach**

In order to achieve sustainable control of malaria, Nigerian Breweries provides regular health education/awareness on malaria prevention to all employees, distributes long lasting insecticide-treated nets and mosquito repellants, provides insecticides to all employees, provides ultra-sensitive diagnostic facilities in each brewery clinic (e.g Rapid Diagnostic test kits (RDT) and microscopy), ensures prompt treatment of confirmed malaria cases and provision of necessary chemo prophylaxis for expatriate, sicklers, pregnant and other vulnerable individuals.

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<th>Website: <a href="http://nbplc.com/">http://nbplc.com/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program overview:</strong> Nigerian Breweries Workplace Malaria Program tracks high prevalence of malaria cases with its attendant loss of man hours and provides education, prevention, diagnostic and treatment interventions for employees and their dependents.</td>
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<td><strong>Goals:</strong> To reduce malaria incidence in Nigerian Breweries employee population and families.</td>
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<tr>
<td><strong>Population Focus:</strong> 20,000 employees and dependents in all Nigerian Breweries sites located in 11 breweries in 10 Nigerian states.</td>
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<tr>
<td><strong>Results:</strong></td>
</tr>
<tr>
<td>• 10% reduction in absenteeism due to malaria over last three years</td>
</tr>
<tr>
<td>• Appreciable reduction in total malaria cases for employees and dependents between 2013-2016</td>
</tr>
<tr>
<td>• 100% reduction in wrong diagnosis of cases previously assumed to be malaria cases during the era of presumptive diagnosis</td>
</tr>
<tr>
<td>• Total reduction in man-hours lost due to commuting to external hospitals with their attendant long waiting time to receive care in such facilities</td>
</tr>
</tbody>
</table>
Shell is an international energy company with expertise in the exploration, production, refining and marketing of oil and natural gas, and the manufacturing and marketing of chemicals.

Program Description
The Shell Companies in Nigeria (SCiN) are committed to supporting malaria control efforts in the Niger Delta (ND). The company’s malaria working group has been successfully coordinating a regional response to malaria through a series of activities over a number of years in collaboration with partners.

SCiN supported interventions have resulted in significant reductions in malaria cases including reduced morbidity in target populations. Through a $4.5 million partnership with Africare (Malaria Health Integration Project-HIP), SCiN supported the roll back of the disease in 55 communities in Nigeria between 2005 and 2009. HIP aimed at reducing the impact of malaria on mothers and children in the ND through awareness programs, strengthening of health systems and facilities, and distribution of malaria commodities (drugs and mosquito nets). In 2010, SCiN continued with an access to health initiative, NiDAR plus, a $3.1M partnership with FHI360 and the Government of Nigeria where HIV/AIDS, Malaria, TB and Child survival services were integrated under one roof in 15 rural health facilities. The project directly impacted 32 communities in five ND states. This program is contributing to the country’s Sustainable Development Goals targets; improving health outcomes/status, creating awareness about malaria in the communities and enhancing Shell’s reputation as a caring company that supports health agenda. It has reduced environmental risk and strengthened community and government capacity.

SCiN continues to leverage the gains of HIP and NiDAR plus by partnering with states, local government areas (LGAs), communities and other stakeholders, to embed and imbue malaria control activities with local ownership and leadership. In 2017, SCiN partnered with the Rivers State Ministry of Health on the successful house-to-house Insecticide Treated Nets (ITNs) “hang-up” campaign in Mbodo Aluu to improve the use of nets. Internally, SCiN’s malaria workplace program, including the integrated pest management approach, has continued to decrease malaria incidence and improve productivity.

A Business Priority
Deploying an integrated malaria control program is a business priority to prevent illness and death from the parasitic infection in communities (including our workforce), as well as sustaining improved health outcomes. Aspects of preventing and managing malaria include:

- Provision of Insecticide Treated bed nets in all the field locations in Shell residential areas and to vulnerable groups in communities through outreach and antenatal clinics
- Expatriate malaria induction from base country before expatriates arrive, and continuity on arrival in-country, aimed at reducing malaria infection (and its sequelae)
- Adoption of an integrated pest management (IPM)
approach to minimize incidence of malaria. IPM involves reducing vegetation, creating barriers at ingress points, netting of windows and doors, waste management, and indoor residual spraying

- Environmental management and periodic fumigation internally, indoor and outdoor spraying, in industrial and residential areas
- Annual support of Africa Malaria Day activities including collaborating with stakeholders to commemorate achievements and strides in malaria control

**Critical Success Factors**

**Transparent Implementation Partnerships with Government and Communities**

SCiN managed the malaria interventions by signing Memoranda of Understanding (MoUs) with (1) Africare to deliver the Malaria HIP project 2005-2009, (2) FHI 360 and (3) the Government of Nigeria (Federal Ministry of Health - National Malaria Control Programme, National Agency for the Control of AIDS, National TB and Leprosy Control Programme). All the partners, including five state hospital management boards, were represented on the project advisory committee and met quarterly to review project performance, challenges and agree on ways forward. Five community-based organizations supported and delivered the project. This demonstrated Shell’s shared-value concept, ensuring greater transparency and local participation in decision-making and project development.

**Website:** https://www.shell.com/

**Program Overview:** The Shell Companies in Nigeria (SCiN) are committed to supporting malaria control efforts in the Niger Delta. The company’s malaria working group is successfully coordinating a regional response to malaria through a series of activities in collaboration with community-based and government partners.

**Goals:**

- Increase community awareness and capacity to respond to malaria
- Prevent and manage malaria especially among women and children
- Reduce exposure and malaria burden of communities and workplace staff to infection
- Work with partners to sustainably transition and embed programs and results in communities

**Population Focus:** 55 communities in 6 Niger Delta states

**Results:**

- 85.7% facilities had verified stock of ACT, and most facilities were fully stocked with ACTs
- Most health facilities (88.9%) received supervisory visits from project stakeholders, LGA support, community based organizations and others in the previous three months
Program Description

TANA Netting has opened a long-lasting insecticidal net (LLIN) manufacturing facility in Aba, Nigeria, as part of its commitment to localize production in malaria-impacted regions.

The “DawaPlus: Made in Africa” project places labor intensive processes of long lasting insecticide-treated bed net (LLIN) production in African countries. In 2017, the project delivered its first batch of LLINs to Nigeria made locally at Rosie’s Textile in Aba. The aim of the project is to maximize the developmental potential of donor funds by also creating immediate societal benefits, particularly, local employment.

Secondly, local production will enable governments to invest locally rather than in imports. Governments are able to take a bigger part of the financial responsibility for malaria commodities procurement, investing not only in better health but also directly in their own economies. This localized model will help ensure the sustainability of malaria control campaigns and manufacturing in accordance with local needs. As of today, close to one million people sleep safer under “DawaPlus: Made in Africa” nets. TANA Netting aspires to scale up this initiative to meet the total need for locally manufactured LLINs in Nigeria.

TANA Manufacturing Partnership

The production facility was established in partnership with TANA Netting’s contracted manufacturer in Nigeria, Rosie’s Textiles Ltd.

The TANA Netting Technical team visited the Aba factory on several occasions in order to 1) map factory and machinery to determine investment and organizational needs; 2) plan and execute technology and knowledge transfer for organizational setup, training in methods, work flow and quality systems; 3) verify systems function and process output; and 4) assist on local compliance matters.

Focus on Local Employment

The manufacturing facility in Aba currently employs 300 people, now trained in producing finished WHO pre-qualified LLINs. The factory is manufacturing 200,000 LLINs per month; the site capacity is one million and can be scaled up in accordance with demand. Production covers the “cut-to-pack” stages of LLIN-making, with the chemical treatment process being retained in Pakistan. In this way, the company is able to maintain strict control over the critical chemical processes and core intellectual property while shifting most of the employment to Nigeria – over 85% of the labor needed to make LLINs lies on the cutting, sewing and packing stages. This process of technology transfer and training in specialized production methods further contributes to the development of employees. By investing in local development, donor and state resources will have a greater impact creating local ownership and mobilizing the local knowledge necessary to fight malaria.
Critical Success Factors
Local Partnerships and Regulatory Compliance
The Malaria Consortium Nigeria has been a key partner in ‘midwifing’ the project by establishing contacts and coordination with the national program and at the ministerial level. The Consortium has provided technical assistance and has been particularly helpful in arranging a working supply chain for materials through the Nigerian customs system. “DawaPlus: Made in Africa” project has been entirely funded by TANA Netting ensuring alignment and control over product quality and objectives.

The production of LLIN in Aba is fully compliant with Nigerian Agency for Food and Drugs Administration and Control (NAFDAC) requirements, and the site is listed with the World Health Organization PQ as part of the TANA Netting site master file for the production of DawaPlus ® 2.0. The International Federation of Red Cross and Red Crescent Societies (IFRC) have also audited the site for social and environmental compliance with their requirements.

Website: http://www.tananetting.com/

Program Overview: TANA Netting has opened a long lasting insecticidal net (LLIN) manufacturing facility in Aba, Nigeria, as part of its commitment to localize production in malaria-impacted regions.

Goals: The goals of the project are to foment local development; reduce overall financial burden from governments and aid agencies when procuring malaria commodities; encourage local ownership on crisis response; and create a platform for local production and technology transfer.

Populations Focus: Nigerians

Results: In 2017, the Aba facility has delivered close to 500,000 LLIN to programs overseen by the Nigeria’s National Malaria Elimination Programme (NMPE) and to a private NGOs:

•425,000 LLINs on behalf of The Global Fund/IDA, and;
•10,000 LLINs to the United Methodist Church
Program Description

9mobile is committed to delivering innovative, quality services to its customers, and passionate about driving sustainable development of the nation, through its robust Corporate Social Responsibility (CSR) strategy, where social and business strategies align. For the company, this means developing sustainable products and services, ensuring ethical business practices, minimizing its environmental impact, and contributing to sustainable development through three platforms – Education, Health and Environment.

Health Platform and ‘Fight Malaria Initiative’

9mobile believes that a nation can only be economically buoyant if it has a vibrant and strong work force, and a healthy population. Malaria undermines the growth of the Nigerian economy. 9mobile’s ‘Fight Malaria Initiative’ is its flagship health program, contributing to both control and reduction of the incidence of malaria in Nigeria. The initiative takes a two-pronged approach – Education and Active Action, to meet its goal of one million smiles for one million Nigerians, through empowerment, enlightenment, sound health and environmental preservation.

Education Campaigns

9mobile produced The Will to Win, an innovative, entertaining and informative radio drama series that focused on malaria prevention and control. This program was broadcast across all the regions in Nigeria, in English, Pidgin and Hausa, for mass consumption, to improve awareness and understanding of causes, prevention and treatment for malaria. Each episode ended with a quiz, for which listeners could win exciting prizes from the company. This drove both engagement and an understanding of how to prevent malaria.

In an effort to mobilize additional resources, 9mobile partnered with Malaria No More and Total Nigeria, in a strategic communications campaign tagged, Malaria Free Nigeria: Play Your Part. This further educated the general public on simple but effective ways to prevent malaria and to encourage people to seek proper treatment when needed. Over 90 million Nigerians were reached through various platforms as a result of this partnership:

<table>
<thead>
<tr>
<th>Awareness</th>
<th>Number of People</th>
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<tbody>
<tr>
<td>1 Radio</td>
<td>7.5 million</td>
</tr>
<tr>
<td>2 Television</td>
<td>68.5 million</td>
</tr>
<tr>
<td>3 Cinema</td>
<td>2 million</td>
</tr>
<tr>
<td>4 Ring Back Tunes</td>
<td>1.5 million</td>
</tr>
<tr>
<td>5 Newspaper adverts</td>
<td>1.2 million</td>
</tr>
<tr>
<td>6 Short Message Service</td>
<td>Total subscriber base</td>
</tr>
</tbody>
</table>

Playing to its strengths as a lead provider of easy, quick access to social media platforms, 9mobile also tapped into tools such as Facebook, Twitter, and Google plus, with targeted communication aimed at the youth market.

Additionally, 9mobile partnered with CAMA to continue to increase awareness on malaria, tied to the World Mosquito Day commemoration in Nigeria. The campaign was tagged ‘Mosquito Free Nigeria’, and this trended via twitter and Facebook.
Student Mobilization
9mobile established Student Leaders Against Malaria clubs in 10 schools in Northern Nigeria, to train students on preventive measures against malaria. This evolved into 9mobile Fight Malaria Clubs set up in Cross River state in partnership with the state government. This community-based engagement involves training and development of leadership skills within schools’ communities. To date, clubs have been established in over 50 schools across the state. A report prepared by the state government stated, ‘this program has impacted positively on the lives of thousands of pupils in Primary and Secondary Schools through the Club strategy to fighting malaria, raising committed change agents in our communities which in essence are the most affected by the vector’.

9mobile’s contribution to this partnership has included funding and donation of computers. Mediatrix Development Foundation (MDF), the NGO implementing partner, was responsible for installation of all health information on the computers, providing easy access to knowledge and research on malaria prevention, control and treatment. Monitoring and Evaluation officers periodically update the computers with fresh information on the major areas of interventions and possible further areas of students’ involvement in planned programs. This is an ongoing project.

Active Action:
9mobile believes that prevention if better and more cost-effective than cure. Within this policy, the company has distributed well over 50,000 nets to some of the most vulnerable groups – elderly populations, pregnant women, and children; in more than 50 communities across the geo-political zones of the nation. Furthermore, it periodically fumigates all its offices across Nigeria, to ensure that the work environment is safe from vector agents, specifically the anopheles mosquito that is responsible for causing malaria. When its staff does contract malaria, the company provides comprehensive medical insurance to ensure that staff members are promptly treated, to avoid fatalities.

Critical Success Factors
• Robust and engaging broad approach
9mobile consistently pushes itself to achieve better than its last great result
• Innovation
9mobile pushes previous boundaries, and capitalizes on harnessed competencies – internal and external,
• Effective Partnership
9mobile partnered with other corporate organizations, and the government in true public-private partnerships, playing to the unique and invaluable assets and contributions that each stakeholder brings to the table, and ensure success

Looking Forward
The company remains committed to driving the fight against malaria, and will continue to work individually and collectively to achieve a reduction to zero of malaria in Nigeria, and by extension the African continent.

Website: http://9mobile.com.ng/

Program Overview: 9mobile is committed to delivering innovative and quality services to its customers, and is also passionate about driving sustainable development of the nation, through the implementation of its robust Corporate Social Responsibility (CSR) strategy.

Goals: The company remains committed to driving the fight against malaria, and will continue to work individually and in partnership with others to achieve a reduction to zero of malaria in Nigeria, and by extension the African continent.

Population Focus: Nigerians

Results: Over 90 million Nigerians were positively impacted utilizing various platforms including radio, television, cinema and newspapers.
SECTION II
Workplace Malaria Resources
2017 World Malaria Report Data

Countries and territories with indigenous cases in 2000 and their status by 2016. Countries with zero indigenous cases over at least the past 3 consecutive years are eligible to request certification of malaria free status from WHO. All countries in the WHO European Region reported zero indigenous cases in 2016. Kyrgyzstan and Sri Lanka were certified malaria free in 2016.

Source: WHO database

FIG. 6.2.
Estimated country share of (a) total malaria cases and (b) vivax malaria cases, 2016. Source: WHO estimates


Source: WHO
Proportion of population at risk with access to an ITN, sub-Saharan Africa, 2010–2016

Source: Malaria Atlas Project

Proportion of estimated malaria deaths attributable to the 15 countries with nearly 80% of malaria deaths globally in 2016

Source: WHO Database

Per capita expenditure for malaria control and elimination by WHO region, 2010–2016

AFR, WHO African Region; AMR, WHO Region of the Americas; EMR, WHO Eastern Mediterranean Region; EUR, WHO European Region; SEAR, WHO South-East Asia Region; WPR, WHO Western Pacific Region
Create a Successful Workplace Malaria Program in 12 (Overly-) Simplified Steps

The private sector plays an important role in the fight to end malaria globally. By focusing on the areas of greatest influence – R&D, policy, workplace programming and financing knowhow – companies can save even more lives. The following is a step-by-step guide for companies interested in implementing a workplace malaria program.

Why develop a workplace program?

<table>
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<tr>
<th>Internal:</th>
<th>External:</th>
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<tbody>
<tr>
<td>• Increase workforce productivity and engagement</td>
<td>• Increase staff recruitment and retention</td>
</tr>
<tr>
<td>• Reduce absenteeism and health care costs or premiums</td>
<td>• Improve brand image</td>
</tr>
<tr>
<td>• Improve workforce resilience</td>
<td>• Improve general population health</td>
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Remember your ABCDs!

Assessments of successful workplace efforts suggest that any effective malaria control program should be informed by the established primary, secondary, and tertiary interventions for malaria control – known as the ABCD model:

A = Awareness and public education
B = Bite control
C = Chemoprophylaxis
D = Diagnosis and treatment (early)

Primary interventions are designed to prevent infection and focus on vector control and personal protection. Secondary interventions are intended to reduce the severity of disease, prevent recurrence and decrease the length of illness, for example, efforts at prompt diagnosis and intermittent preventive treatment for pregnant women. Tertiary interventions are designed to prevent death from severe malaria and primarily involve emergency medical interventions.

A (simplified) 12 Step Guide:

Analyze
• Awareness: Determine what your staff knows (or doesn’t know) as a baseline assessment to develop education program
• Baseline: Understand scale of malaria burden in your community to create baseline for prevention, treatment and costs
• Risks: Evaluate transmission risks to staff and dependents (workplace, local recreational points)
• Consistency: Research national and state malaria plans to ensure coherence with recommended prevention and treatment strategies

Develop
• Goals: Clearly define focus and expected outcomes
• Costs & benefits: Assess full impacts and costs including: estimated current losses, planned program scope, cost of interventions, projected savings
• Program design: Develop implementation plan and training materials; ensure feedback loop for employees and communities

Implement
• Partners: Identify implementation partners and develop partnership agreements
• Procurement: Finalize procurement plan and suppliers; seek any regulatory and/or political approvals
• Staff up: Hire and/or train staff to deliver workplace program

Evaluate
• Data: Collect evidence to help inform decision-making and effective allocation of resources
• Annual reviews: evaluate and refine programs annually, or as often as quarterly, based on employee and community feedback

GBCHealth is poised to provide support at any stage in this process.
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