



PHILIPS

Healthcare Africa

The Community Life Center

A community-driven and holistic platform
for strengthening primary healthcare

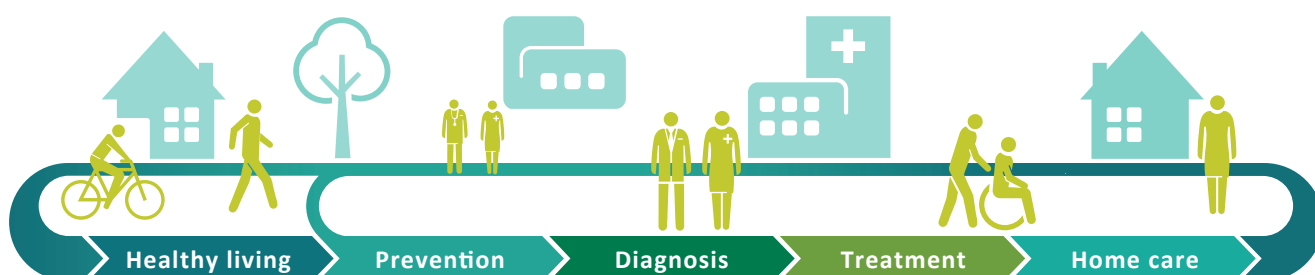
Supporting the drive for Universal Health Coverage

Philips is committed to supporting the transformation of healthcare in Africa. Our experience in many countries has taught us that local ownership and responsibility are key prerequisites for enduring success. Thus, our commitment goes far beyond short-term commercial interests. Through projects in several countries, we have shown our willingness to invest in long-term results, to take and share risk, and to learn quickly in order to develop the best and most cost-effective solutions. We seek to collaborate with the right stakeholders, to make quality healthcare available and affordable to people across the entire socio-economic spectrum and healthcare continuum. All this aims to support the achievement of Universal Health Coverage by 2030.

“Access to healthcare is a key driver of sustainable socioeconomic development. In the last decade, there has been a rise in economic prosperity in many countries in Africa. Despite tremendous progress, there is still a substantial unfulfilled need for effective healthcare that is affordable, equitable and efficiently managed. Philips is deeply committed to supporting the required transformation of healthcare, and to collaborating with complementing partners.”

Frans van Houten,
CEO Philips

Philips has a broad definition of the healthcare continuum



The healthcare continuum

For an effective and comprehensive approach to healthcare, it is essential to understand and address stakeholder needs and issues across the healthcare continuum. The healthcare continuum describes all the health states of a person (from preventive healthy living to diagnosis, treatment and recovery) in the relevant contexts.

“A primary health care approach is the **most efficient, fair and cost-effective** way to organize a health system.”

Dr Margaret Chan, Director-General at the WHO

Source: <http://www.who.int/dg/speeches/2008/20081014/en/>



Introducing the Community Life Center (CLC) platform

The CLC offers a community driven holistic platform for strengthening primary and community healthcare. This platform is both flexible, modular and open for reputable third parties.

Our approach is Community driven

We start by listening to the needs and requirements of the local community and make sure that our CLC is fully integrated into the local healthcare system. This assessment then forms the basis for defining the service delivery and the necessary solutions. Our approach is based on, and innovates within, the new Primary Health Care Performance Initiative (www.phcperformanceinitiative.org) framework. The CLC is fully integrated and adaptive to both present and future health burdens of the communities it serves.

Going beyond the traditional healthcare continuum.

The CLC platform defines community driven outcomes along a broad definition of the health continuum, paying special attention to healthy living and prevention. This includes the living conditions of the community and such factors as security, water, waste and lighting for evening time social and economic activities.

Tooling, training, tracking and providing incentives.

The CLC platform takes a holistic approach to providing a high quality, innovative, sustainable service delivery. This means providing the appropriate tooling, training, tracking which includes connectivity along with the right incentives. We aim to strengthen and increase access to health services and help reduce overall costs in the health system.

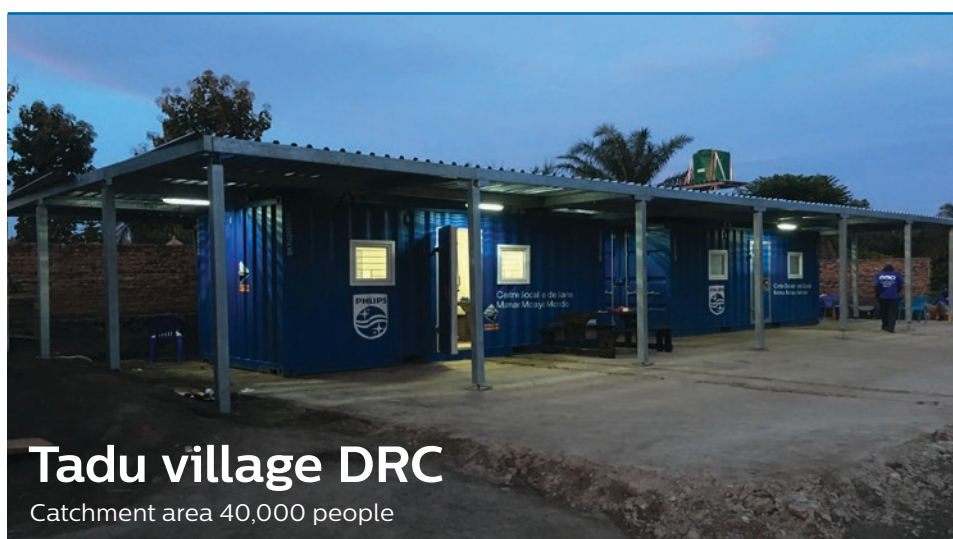
Examples of CLC platform

Our CLC platform aims to provide solutions for the following areas:



1. Providing a healthy & safe environment

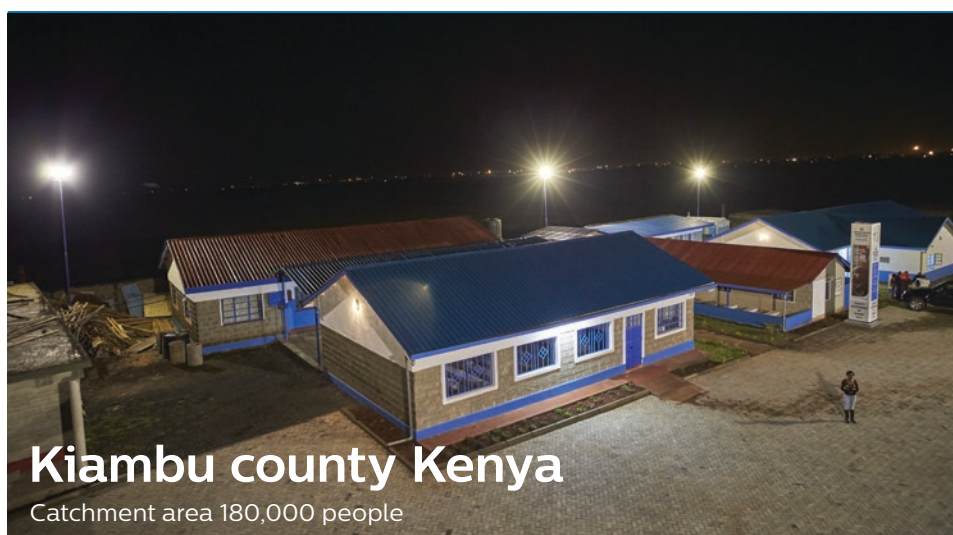
These can be defined as the social determinants of health and include the community surrounding the CLC, the clients and patients visiting the health center and the staff working in the health center. This would include lighting, infrastructure if needed and water storage.



Tadu village DRC

Catchment area 40,000 people

- Indoor LED lighting
- 1000 m² of outdoor LED lighting (football field)
- Water container and solar pump
- Two prefabricated buildings (one medical, one social)
- Tables, chairs, TV, DVD
- Job creation in the community



Kiambu county Kenya

Catchment area 180,000 people

- Indoor LED lighting
- 3000 m² outdoor LED lighting
- Design of facility
- TV in waiting room with educational content
- Job creation in the community
- Water supply & storage *
- Building construction & refurbishment *
- Furniture supply *
- Water sales to community*

* (provided by 3rd party)

ms and what is provided

2. Tooling, training and tracking

This is based on the need to provide high quality care and includes, connecting community and primary healthcare to other levels in the system, innovative equipment, support services, training/capacity strengthening, patient & work flow improvements, data collection/monitoring, and internet connectivity.

- Innovative Philips medical equipment for diagnosis, triage and referral
- Training (clinical, application, facility management and technical)
- IT equipment + network
- Monitoring and evaluation of outcomes
- Patient referral – organized

3. Sustainability

This is a wide subject and includes both operational, environmental and financial sustainability. The first includes maintenance and service of equipment including training and remote monitoring support. The latter includes support in management training, identifying sources of funding and enabling social and economic activity.

- Assessment and project design/management
- Quality control/assurance
- Patient and workflow optimization
- 100% solar powered with remote monitoring
- Maintenance support, service and warranty
- Enablement of income generation and commercial services

4. Collaboration

No company or organization can solve the issues around healthcare by themselves.

Working together is a must and is key to our approach.

- Ministry of Health DRC
- CEPAD (Centre d etudes pour la promotion des actions de development)

- Innovative Philips medical equipment for diagnosis, triage and referral
- Training (clinical, application, facility management and technical)
- IT equipment + network incl EMR electronic medical record
- Monitoring and evaluation of outcomes
- Patient referral – Transport linked to existing healthcare infrastructure.
- Lab equipment
- CLC outreach kits for community health volunteers in testing phase
- Furniture and some additional healthcare equipment

- Assessment and project design/management
- Quality control/assurance
- Patient and workflow improvement
- Solar powered with grid backup and remote monitoring
- Maintenance support, service and warranty
- Enablement of income generation and commercial services
- IT enabled remote monitoring for important equipment
- Setup local health committee (Local Government)

- Kiambu County Government

1. Providing a healthy & safe environment

Security is enhanced by the installation of 1000 m² of LED area lighting. This creates a secure area for the evenings for the community. A survey on behalf of Philips recently reported that 72% of respondents felt more secure in the evenings due to LED solar. (ETC SESA project October 2015)



Solar power unit

Provides off-grid first line power, backed up by a generator. Also possible as grid-connected hybrid solar system.



Provision of water storage container



Refurbishment of existing buildings or new buildings and furniture.

(In case no existing suitable structure is available).



LED area lighting

Improved safety for the community. Philips provides up to 1000 m² high quality outdoor lighting. Indoor lighting is also provided. This enables community activities eg sporting or social, cultural events in the evenings along with micro economic activity. This also enables the clinic to stay open in the evenings especially for deliveries.



Waste management

Including infrastructure, incinerators, waste bins, training and maintenance. (local partners take responsibility for the management of waste and operational support).



2. Tooling, training and tracking

Providing a high quality of care

A key aim is to improve the quality of care beyond baseline levels

Philips is looking to work with existing, locally relevant organizations to help strengthen capacity. This includes filling in knowledge gaps and providing support for community health workers and midwives. The CLC approach can offer a wide range of clinical and medical device training to help improve competencies.

In addition advanced and locally relevant medical devices are able to provide higher levels of care than previous. This medical equipment is either battery operated or can run of the solar power unit. Combined with service offerings for maintenance and repair this combination should help ensure an improvement in quality and also the readiness and responsiveness of the facility which is so often lacking.

Clinical outcomes

The CLC platform enables diagnosis and treatment for:

- General outpatient monitoring, including, malaria, pneumonia, acute respiratory failure, hyper tension, infection (control) diarrhea, and cardiac care.
- mother and childcare including, (pre-)eclampsia, echography, fetal health,



Examples of locally relevant Philips medical devices to empower health workers in community care setting

The ChARM

(Children's Automated Respiration Monitor)
The Philips ChARM assists health workers in assessing an accurate respiratory rate (RR) in children under the age of 5 years.



Wind-up Fetal Doppler

Weighing under 600 grams the Philips Wind-up Fetal Doppler measures fetal heart rates and is fully portable and simple to operate. It will operate without the need of mains supply or batteries, being charged, when required, by a wind up mechanism built into the unit.



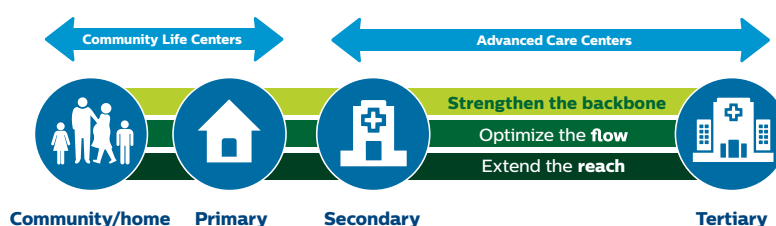
2a. Tooling, training and tracking

Connecting community and primary care with other levels of care and capacity strengthening

Connecting the CLC and community health worker activities with the rest of the healthcare network is a vital part of our approach. Our philosophy is that strengthening community and primary care is a crucial step in decongesting and improving secondary and tertiary care.

Connectivity within the health system

Timely referral of complications to higher levels of care and effective two way communication of data within the health system.

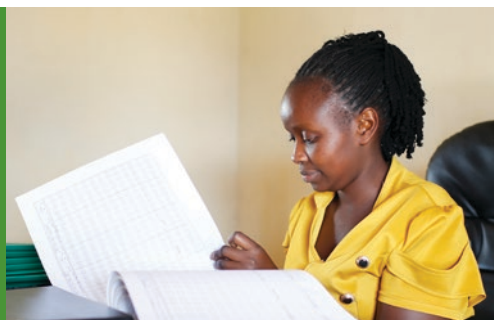


Community outreach program

Empower & support community health workers and midwives in their outreach and educational activities in the community (prevention, diagnosis and referral). See Philips community outreach kit.

Clinical consulting

Work flow and client flow improvement.



Monitoring, evaluation & capacity strengthening

For long term sustainability, Philips offers a range of training connected to facility management, technical and maintenance support.



Transportation

Local service providers connect the facility physically with referral hospitals.



2b. Tooling, training and tracking

Outreach kit is an integral part of the CLC platform

The Philips CLC outreach kit is part of an overall solution package which includes not just the physical product solutions and backpack kit but a number of services and training. This aims to strengthen primary and community health by providing a package of solutions including infrastructure, power, medical equipment, services, community outreach and monitoring/referral.

The CLC is the owner of the outreach kits and will be the hub for training, maintenance, storage and security, recharging of equipment and referral and connectivity with the main health care infrastructure.



3. Sustainability

Sustainability is a crucial factor in the Philips CLC program and this includes two key elements;

- 1 Operational sustainability
- 2 Financial sustainability which includes enabling social and economic activities which can potentially provide local revenue streams.



Operational sustainability

Philips offers a holistic approach for the maintenance of the facility along with service packages to support the ongoing activities. Continuous capacity strengthening is a key factor to ensure operational sustainability. Staff may receive a certification once passed for a course of training. We offer a range of training methods; Face to face training, e-learnings and a train the trainer program. In addition there are remote monitoring and evaluation programs.

Financial sustainability

We aspire to ensure CLCs are designed and developed within the financial realities of health systems. We use measures of affordability, system fit and equity to define sustainability. Within the CLC concept it is envisaged that we actively engage communities and stakeholders in the process of developing mechanisms and measures to help realize this goal.

The CLC approach seeks to identify and develop alternative funds to establish new CLC's with donors and new business models to help offset the costs of establishing and running these facilities longer-term. A number of approaches can be used here, including identifying new, alternative and innovative fund sources. The CLC approach can also work to better understand possible efficiencies and cost recovery in primary care settings. Lastly, co-creating social & economic activity alongside or within CLCs has the aim to off-set costs to the patient and the facility over time.

Enabling social and micro economic activities

The Philips CLC aims to create a safe and attractive environment for the local community and can be an enabler for social & economic activities. For example, we have found that outdoor lighting attract the local community after dark to part take in such activities as sports, studying and micro economic activity.

Surplus power or water in the Philips CLC solutions may enable local communities, cooperatives and entrepreneurs to set up small businesses/services and create revenue streams.



Enabling small business creation

"I started selling porridge outside the dispensary in 2014 to generate income for myself and my grandchildren. After Philips came, I saw many people come to the facility and this increased the number of people who bought porridge from me. Before, I would only sell half of my 20 litre jerry can of porridge but now I sell the full 20 Litre jerry can before 2 pm!"

Entrepreneur near the CLC in Kiambu, Kenya

4. Collaboration

Developing an ecosystem of collaborations

Philips is seeking commonly agreed and co-created shared value.

Engaging with locally relevant collaborators

Our approach is to collaborate with governments and local collaborators to help strengthen their healthcare systems. We are also looking to work with other recognized and reputable organizations that share our mission to improve the quality, capacity and accessibility of healthcare across Africa.

We aim to provide an attractive proposition for potential collaborators providing complementary services (clinical, financial, infrastructure and others). Our approach and emphasis is on co-creation/ co-ownership/ co-management.

On some projects, Philips in Africa works closely with a number of UN organizations and NGO's. As an example of this, Philips and one of the leading African healthcare organizations, Amref Health Africa, have entered into a shared-value strategic partnership model designed to bring a structural improvement in healthcare infrastructure and healthcare provision on the African continent.

Examples of Philips collaborative projects and research in Africa

1 KENYA

In collaboration with the Kiambu County Government, Philips launched Africa's first Community Life Center (CLC) aimed at strengthening primary healthcare and enabling community health development in Githurai-Lang'ata, Kenya. Together with the Community Health Strategy Unit of Kiambu County, Philips trained over 50 Community Health Volunteers (CHWs) to extend the primary care services of the CLC into the community.

2 KENYA

Philips Africa has established an Innovation Hub in Nairobi, which is the center for developing innovations 'in Africa-for Africa', covering healthcare, and healthy living.

3 NAMIBIA

Philips was selected by the WHO (World Health Organization) to provide equipment services and training for the 'Program for accelerating the reduction of maternal & child mortality (PARMaCM) in Namibia. The program is a collaboration between the Ministry of Health and Social Services (implementing partner) the WHO (technical support management) and the European Union (funding) and involved 60 primary healthcare facilities and six district hospitals.

4 SOUTH AFRICA

Philips and the University of Johannesburg (UJ) have set up a high-tech Medical Simulation laboratory to support clinical education training, and an ambulance program.

5 SOUTH AFRICA

Philips established a public-private partnership with the University of Stellenbosch to co-develop emergency maternal care solutions for the Tygerberg Tertiary Care public hospital in Cape Town.

6 KENYA

Philips, Mandera County Government and UNFPA have designed a Community Life Center for Dandu which will be inaugurated in 2017; the objective is to demonstrate that maternal and new-born health can be improved through innovation, even in the most difficult conditions.

7 DRC

Philips has installed the first CLC in Tadu village DRC (November 2016) in collaboration with CEPAD (Centre d'etudes pour la promotion des actions de developpement) and with the support of the Ministry of Health DRC.

Examples of the Community Life Center platform



The Community Life Center (Primary Healthcare Center)

Typical catchment area approx. 25-30k people.



A Mini CLC (Health Post)

Typical catchment area approx. 6-10k people



Community Life Center for existing health posts

This includes a social container enabling social and economical development.

Why Philips?

With a legacy of over 100 years Philips is one of the worlds most trusted brands for innovation and quality. We do not only pursue profit but strive for thought leadership and making a meaningful difference.

Philips has a proven track record and expertise in building long term public-private partnerships to transform healthcare systems. Our modular and flexible portfolio of highly relevant products and services covers the entire health continuum.



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