

EXECUTIVE SUMMARY

Cardiovascular diseases (CVD) are the number one cause of death globally; more than 80% of CVD deaths take place in low and middle income countries and Sub-Saharan Africa is one of the most affected regions.

(WHO Data, Non Communicable Diseases 2018)

Rwanda is now one of the fastest growing economies in Sub-Saharan Africa, and has demonstrated tremendous advances in primary care delivery, but has only a small pool of cardiologists serving its population of approximately 13 million people.

Following the example and concept of the Aswan Heart Centre in the South of Egypt, and the Cardiac Centre in Addis Ababa, the Magdi Yacoub Rwanda Heart Centre will be the first dedicated cardiac hospital in Rwanda. It will offer the entire spectrum of diagnostics and treatment of congenital and acquired heart diseases, free of charge in an egalitarian fashion.

It is a humanitarian project that involves the design and build of a 12000 sqm cardiac teaching hospital in Kigali. The medical remit is to transfer knowledge, skills and experience across the region and help create a biomedical and innovation knowledge base, training a generation of young Rwandan doctors, nurses, scientists and technicians to ensure sustainability in the region.

The Magdi Yacoub Rwanda Heart Centre collaborates with local government and will be owned, operated and funded by the Heart Care and Research Foundation Rwanda (HCRFR), a Rwandan registered charity. The HCRFR is anchored in a strong network of international collaborations which include the Aswan Heart Centre, founded by Prof Sir Magdi Yacoub, RobinAlD Foundation, Chain of Hope UK, Sawiris Foundation For Social Development and Flux Architects. In addition, the project has secured the patronage of the First Lady in Rwanda.

Training programmes of local medical staff are in progress in collaboration with the University of Rwanda. We have now reached an important milestone with the project and have completed the shell and core of the building.

Performing medical training as well as operating an active research institute will make a sustainable impact and will elevate the capacity of well trained and innovative health professionals in the region.

The guiding principle is knowledge transfer by international cardiac specialists to Rwandan health care professionals to ensure sustainability.





The Heart Care & Research Foundation Rwanda - Egypt Heart Centre

Medical Aims

- Offer state of the art, free of charge medical services to children and adults with heart disease in a purpose built heart centre.
- Conduct research aimed at defining the size and type of heart diseases in Rwanda to guide prevention programmes.
- Train a generation of young Rwandan doctors, nurses, scientists, engineers and technicians at the highest international standards to ensure sustainability in the region.

Project Aims

- World Class Centre of Excellence for Tertiary Cardiac Care.
- Heart Centre, providing free of charge treatment to all, regardless of wealth, religion, origin or gender, thereby affirming human dignity for all.
- Centre of Innovation. Research will be at the heart of every treatment and is vital to find solutions to pressing healthcare challenges.
- Sustainability as a holistic process, aiming to restore and maintain harmony between the natural and built environment.



COLLABORATIONS



























MAX FORDHAM





The Rwanda Heart Care and Research Foundation is a Non-Governmental Organisation registered in Kigali Registration No. 563/RGB/NGO/OC07/2019 Registration date: 22nd July 2019.

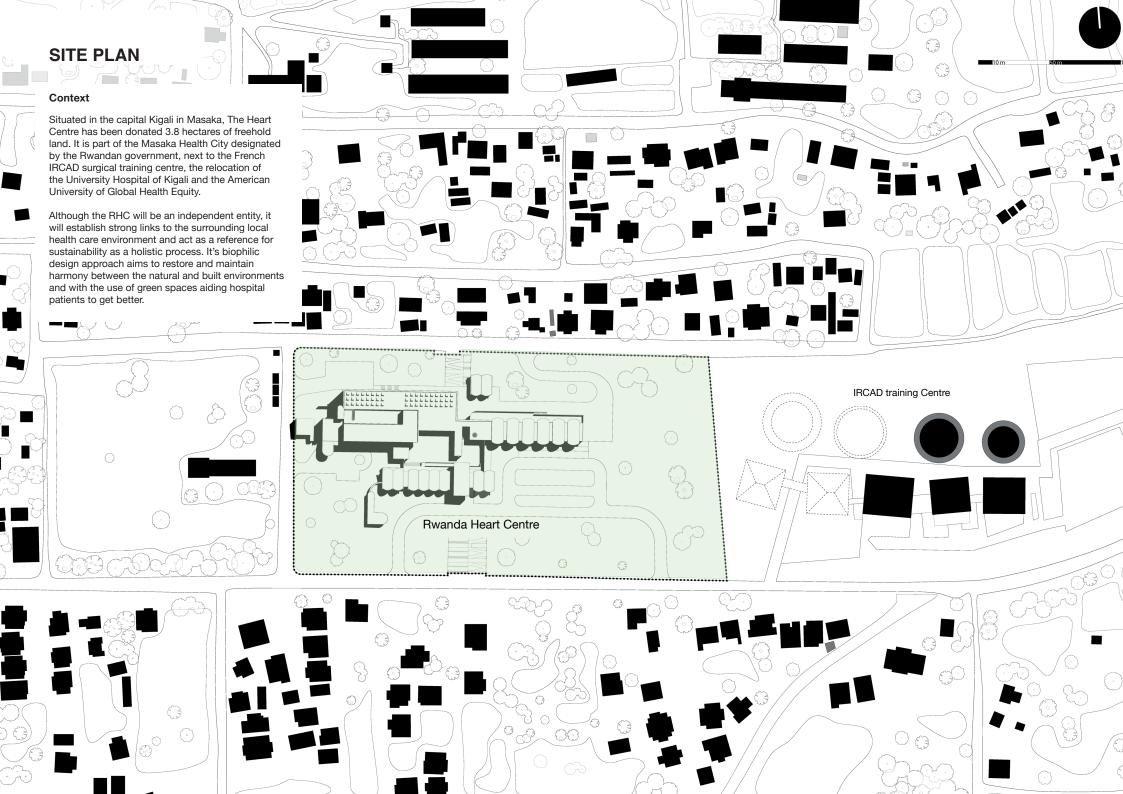
Its mission is to assure the development of cardiovascular care and research in Rwanda and the wider Sub-Saharan Region.

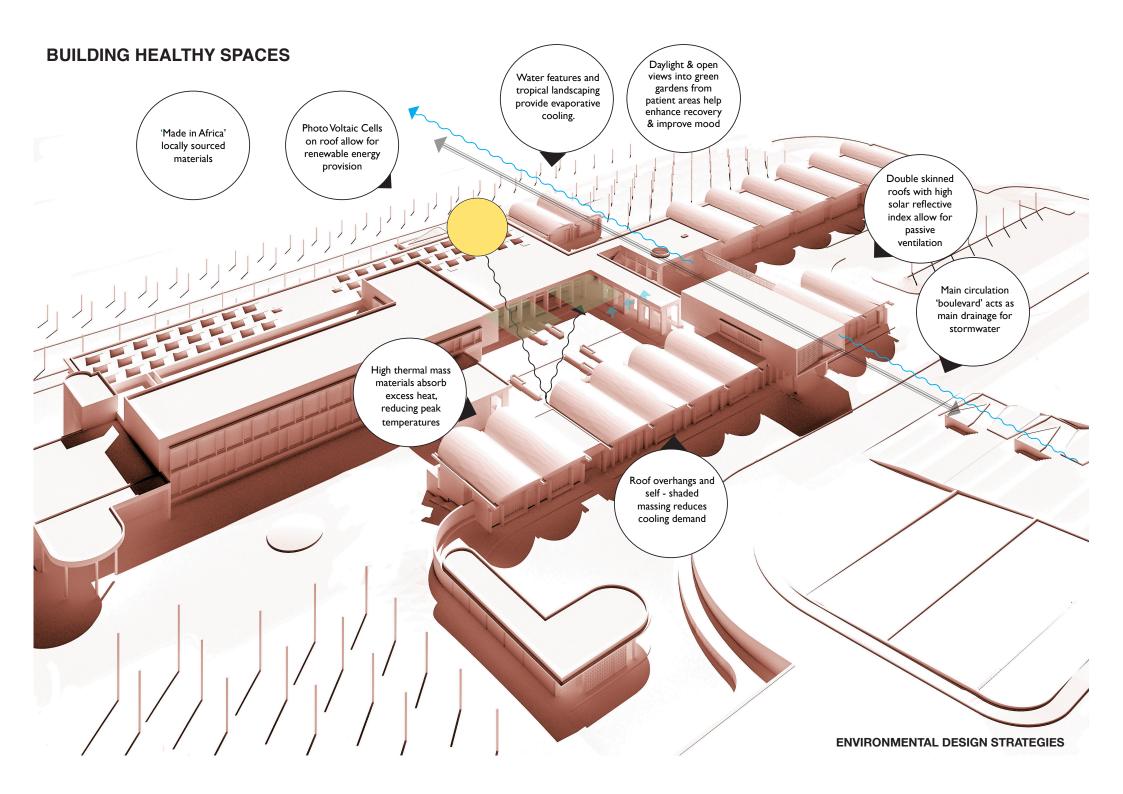
Setting up The Rwanda Heart Centre follows the role model of the Aswan Heart Centre in the South of Egypt founded by Prof Sir Magdi Yacoub, one of the world's most respected cardiac surgeons, scientists, and medical teachers. This exceptional project represents a model in Africa for the prevention, treatment and research into the causes of heart diseases.

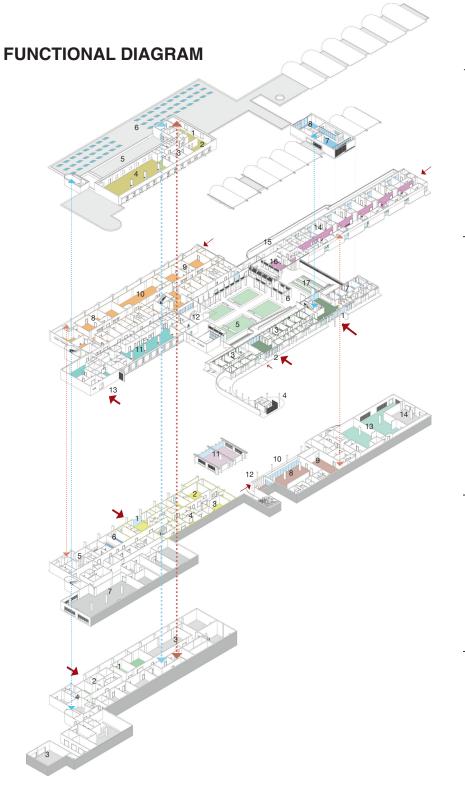
The design proposal has been established by Flux Architects, London in close collaboration with the Magdi Yacoub Heart Foundation, the Chain of Hope UK, Robin Aid as well as UK and German design consultants. The tender design documents are developed by ECG, an Egyptian consulting firm. Orascom Construction Industries were appointed as the main contractor. EEacon was appointed as local Architect of Record.

The Rwanda Heart Care and Research Foundation is working closely with the Rwandan Ministry of Health for the recruitment of the work force to be trained at a high volume centre at the Aswan Heart Centre, for their eventual return to the Heart Centre in Rwanda when it opens.









First Floor

Research Department

- 1 Lobby/Waiting
- 2 Seminar room
- 3 Doctor offices/ admin offices
- Kitchenette
- 4 Research Labs (Phase2)
- Ancillary Facilities 5 Outdoor Terrace
- 6 Solar Farm

Administration

- 7 Open plan office
- Kitchenette
- 8 Seminar room

Ground Floor

Outpatient Department

- 1 Main Entrance/ Reception
- 2 Outpatients Entrance/ Reception
- 3 Outpatient Department
- Consultation
- Offices
- ECG/Holter/ Echo
- Phlebotomist
- X-Ray
- Satellite Pharmacy - Crèche
- Staff Changing
- Ancillary Facilities
- 4 Outpatient Cafe
- Outdoor Waiting area
- 5 Tropical Courtyard
- 6 Boulevard
- 7 Administration

Acute Department

- 8 Operation Theatres x 2 - Anaesthesia
- Offices
- Lab
- Perfusion
- Staff Change
- Equipment Storage
- Ancillary Facilities
- 9 Cath Labs x 2 - Reception/waiting
- Anaesthesia
- Offices
- Staff Change
- Ancillary Facilities

10 Progressive Care

Acute Department

- 11 ICU
 - Reception - ICU beds
 - Isolation rooms
 - Doctor on Call
 - Staff Change - Prof Office
 - Ancillary Facilities
- 12 Outdoor Waiting
- 13 Entrance Ambulance

- 14 Patient Ward
- Reception/ Waiting

Inpatient Department

- Nursing Station - Isolation Rooms x 2
- Patient Rooms
- Offices
- Satellite Kitchen
- Staff Change
- Equipment Storage
- Ancillary Facilities
- 15 Terrace
- 16 Outdoor Waiting
- 17 Kitchen Garden

Lower Ground Floor

Imaging Department

- 1 Entrance/ Waiting
- 2 CT Scan (Phase 2)
- 3 MRI (Phase 2)
- 4 X-Ray (Phase 2)
- Consultation
- Offices - Ancillary Facilities

- 5 CSSD
- Ancillary Facilities

CSSD/Bloodbank

- Soiled & Clean Elevator
- 6 Blood Bank
- Consultation - Offices
- Ancillary Facilities
- 7 Plant room

Staff Canteen

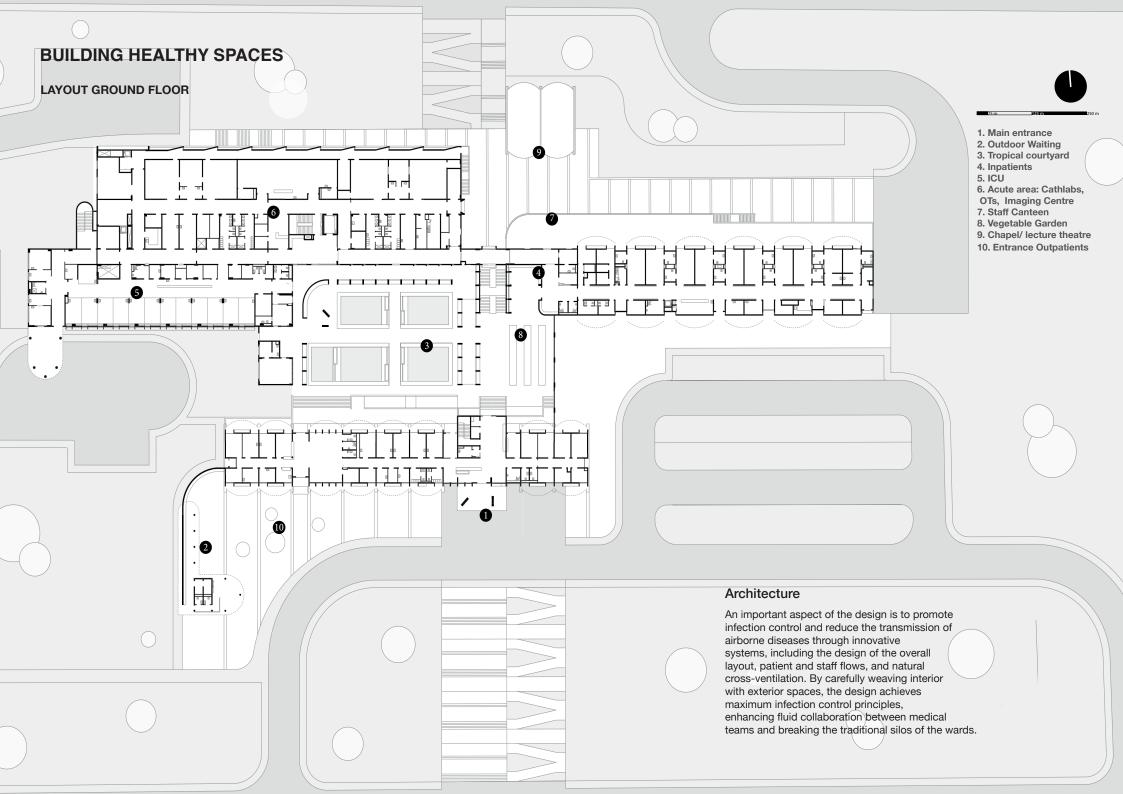
- 8 Dining Hall
- Ancillary Facilities 9 Main Kitchen
- Ancillary Facilities
- 10 Outdoor Seating
- 11 Chapel/ Seminar
- 12 Staff entrance
- 13 Laundry 14 Plant room

- Ancillary Facilities

Laundry

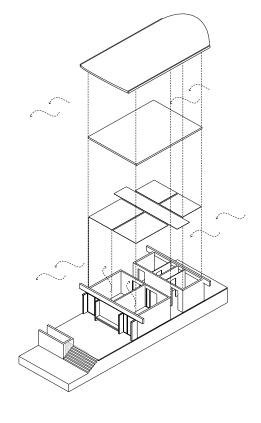
Basement Level

- 1 Pharmacy
- 2 Body Keeping
- 3 Plant Area
- 4 Waste Department



BUILDING HEALTHY SPACES





HEALTH AND WELLBEING

Putting patients, staff and visitors at the centre of the design to provide a healing environment that improves recovery times, increases productivity and has a positive impact on the mood of all users.

PASSIVE DESIGN STRATEGIES

Passive design strategies aim to reduce overall energy usage. Long narrowly designed buildings perpendicular to prevailing winds facilitate best natural ventilation. Horizontal shading and self shaded massing reduces cooling demand.

SUSTAINABILITY

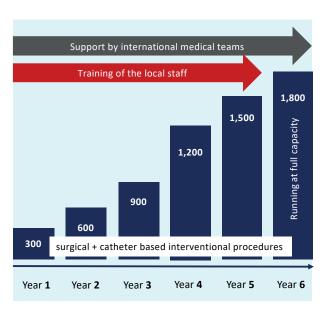
Sustainability is seen as a holistic process, aiming to restore and maintain harmony between the natural and built environment. The project proposes modular and prefabricated (low carbon) concrete systems in combination with traditional materials to deliver culturally appropriate, therapeutic and ecologically balanced design solutions whilst supporting a local supply chain and future flexibility.



ICU



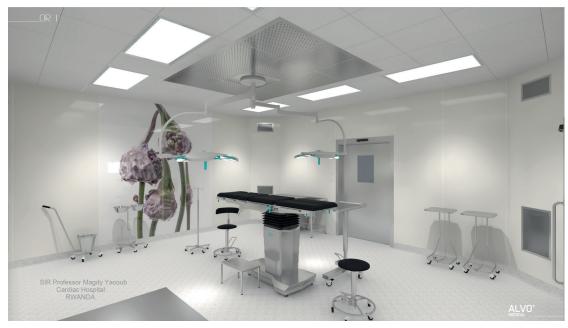
View towards Outpatient and Main Entrance



Create the Future - Realising the Vision

Following the role model of the successful Aswan Heart Centre in the South of Egypt, the Rwanda Heart Centre will provide state of the art treatment to all patients free of charge regardless of wealth, religion, orign or gender; a clear signal that equitable access to medical care is an inalienable human right.

The successful integration of clinical care, training and cardiac research at a centre of medical excellence in Rwanda will open a new chapter in the development of high-quality medical services in East Africa.



Operating Theatre



Cath Lab





Bilateral aid for vital cardiac equipment donation

The Egyptian Agency of Partnership For Development (EAPD) from the Egyptian Ministry of Foreign Affairs has signed a Memorandum of Understanding with the Rwanda Heart Care and Research Foundation to donate the equipment of the hospital with two state of the art cardiac theatres, a catheter lab, fully equipped Intensive Care beds, progressive care beds and ward beds. Future grants from the EAPD have been pledged for the development of the Heart Centre in Rwanda.

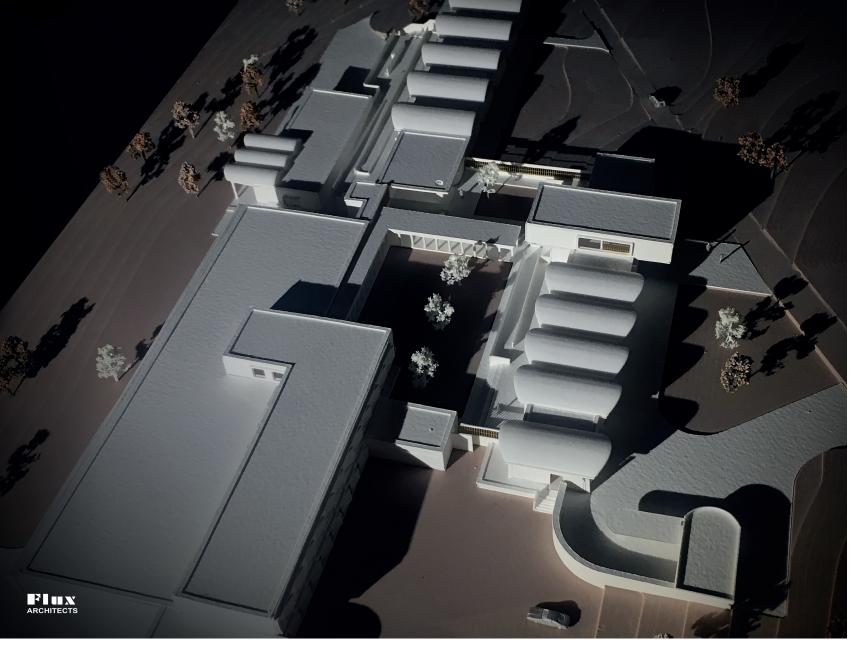


The EAPD and The Rwanda Heart Care and Research Foundation are working with Lifecare Technology for the purchasing of the medical equipment and for the installation of the medical gases. The projected opening time of the hospital is mid to late 2025.



Tropical Courtyard View Towards Acute/Treatment Area

A tropical courtyard garden forms the heart of the building and is framed by a covered walkway, acting as an outdoor cardiac rehabilitation track - connecting the majority of all medical departments. All inpatient rooms provide access to an outdoor area and views towards a valley, in an effort to mitigate stress and speed up recovery.





The Heart Care & Research Foundation Rwanda - Egypt Heart Centre

Our Patron

The First Lady of Rwanda, Her Excellency Mrs Jeannette Kagame

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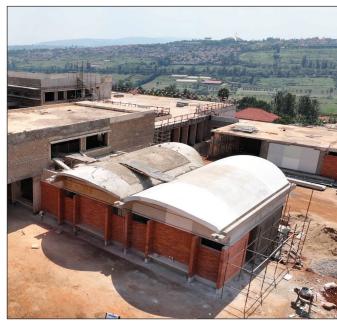
Dr Hatem Hosney Dr Ahmed Afifi Dr Ahmed El Guindy Dr Matthias Angres Mr Mahmoud Abdelhay

Kigali August 2025















'People helping one another can bring an elephant into the house'

Rwandan Proverb

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