

Credits Introduction

FABULOUS URBAN

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in collaboration with:

Center for Understanding Sustainable Practice at Robert Gordon University Aberdeen City Ridge Farms Midori Ltd. Heinrich Böll Foundation Nigeria, Lagos Office

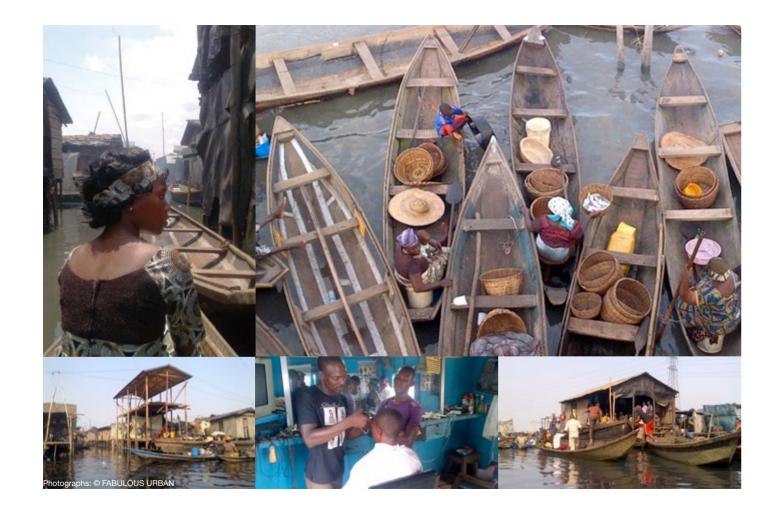
Social and Economic Rights Action Center (SERAC), Lagos

Makoko-Iwaya Waterfront Community

Makoko on Water – it's a fascinating boat ride through an autarkic and vibrant, still peaceful community on water within an ever busy, noisy and hectic Megacity. Although the lack of government support and infrastructure result in poor living conditions, the communal life offers exemplary potentials to adapt to rapid urbanisation and climate change in coastal cities. The "Makoko/Iwaya Waterfront Regeneration Plan" - a comprehensive people-centered development framework - was submitted to the Ministry of Physical Planning in October 2013. One of the major objectives is ensuring participation and community ownership in the formulation, implementation and sustainability of the plan. It looks at all facets of life and development in Makoko-Iwaya Waterfront including land use, housing, tourism opportunities, tenure security, funding strategies and an institutional framework for implementation and management.

The idea of the Regeneration Plan centers on the assumption that upgrading of infrastructure and the transformation of the communities can only succeed if its residents are empowered to contribute with their own

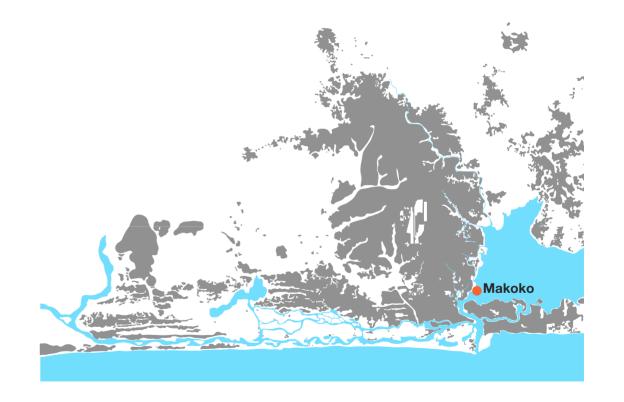
funds. This brochure gives you an idea of the identified potential for economic empowerment as an integral part of the Regeneration Plan. Supported by a working group with members of the communities, professionals, academicians and human rights organizations, Fabulous Urban developed the concept of "Decentralized Neighborhood Hotspots" powered by biogas facilities which offer a wide range of micro-entrepreneurial opportunities for a resource-based economy. The income will be sufficient to pay each worker an appropriate salary and still save money in a fund for the general maintenance of the facility so that it can be selfsustainable. "Opportunity Cards" describe and visualize these job potentials with a cost/benefit analysis for necessary financial investments which, if implemented within the framework of the Regeneration Plan through concerted efforts from society, government and the communities, could turn the Makoko/Iwaya Waterfront communities into a worldwide showcase of a sustainable and flood-resilient lifestyle.





Lagos, Nigeria

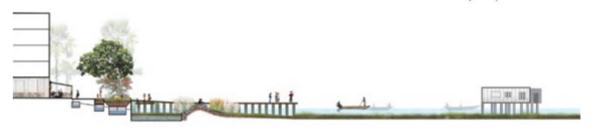




We suggest an entirely new waterfront experience with wetlands, trees and plants, fish ponds and community gardens.

The retrofitted waterfront with wetlands can become a new green leisure and recreational space for entire Lagos.



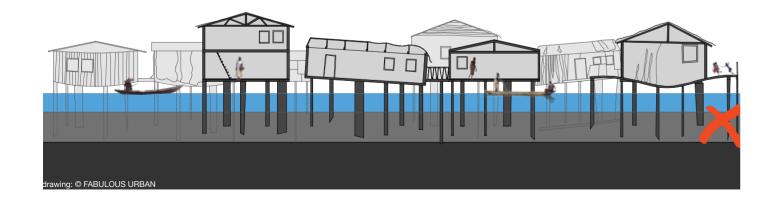




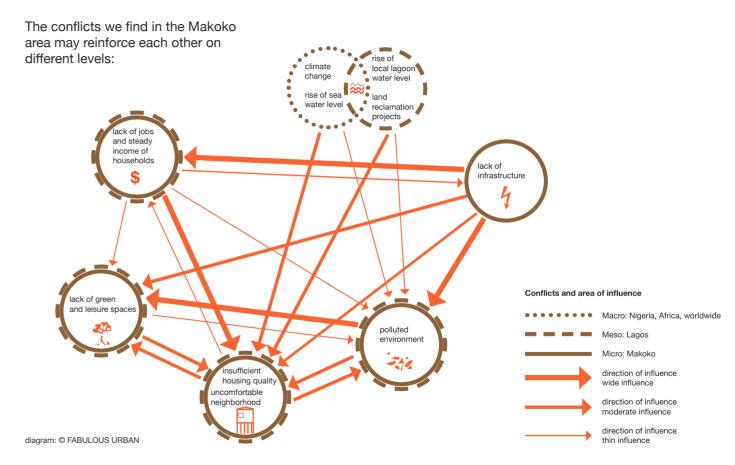
Wetlands, fish ponds, and upgraded Makoko on water

Makoko today

Average height of water level

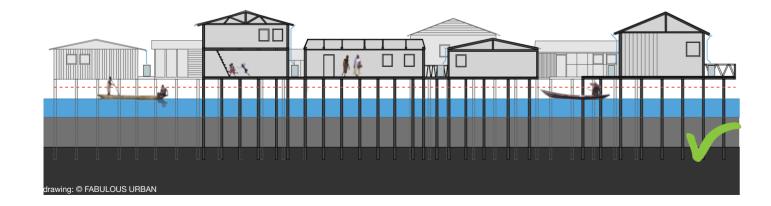


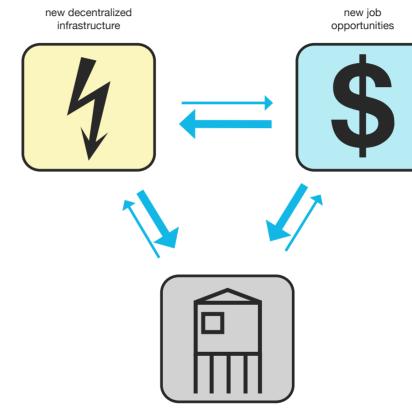
Conflicts in the Makoko area



Makoko after suggested upgrading

Average height of water level

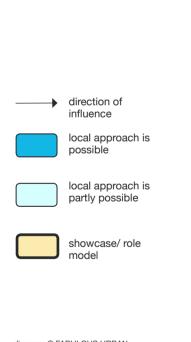




upgrade of the neighborhood

The suggested decentralized infrastructure will not only create a better neighborhood but create new job opportunities. The additional income allows people to upgrade their houses themselves. The two measures together will create in the mid and long term a better neighborhood for everybody.

Challenges and approaches



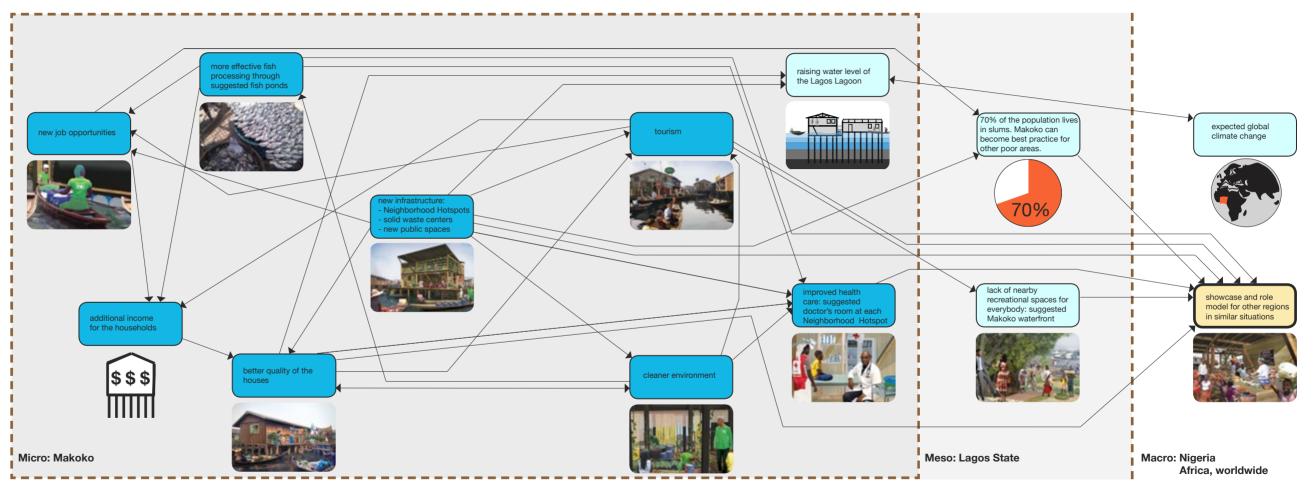


diagram: © FABULOUS URBAN

Upgrading strategy

Masterplan

We believe that Makoko could become a worldwide showcase for a sustainable and flood-resilient lifestyle and way of construction. We further suggest completing it with flexible, low-cost, low-tech, and flood-resilient infrastructure, which in addition will create jobs and initiate a new resource based micro-economy, providing waste management and renewable energy.

The suggested infrastructure will be:

- ✓ highly flexible according to the needs
- ✓ low-cost and ready to implement immediately
- resistant against floods and increasing water level: no vulnerable wired and pipe system
- provide new jobs and income and initiate a new local network economy
- provide electricity to the entire community
- support social activities and provide new basic medical services
- environment-friendly due to decentralized energy plants and closed-loop cycles



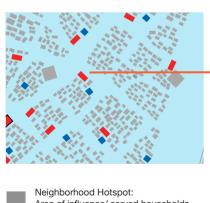


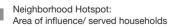
Masterplan of the Makoko / Iwaya Waterfront area with the highlighted suggested public facilities: Neighborhood Hotspots with the renewable energy production, floating markets, recycling stations, schools, and walk-in clinic.

We suggest widening strategically some of the canals for better accessibility.

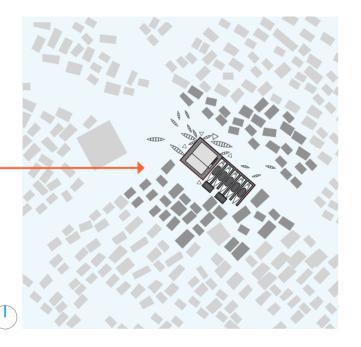
Neighborhood Hotspot Pilot implementation

Flexible decentralized infrastructure can be provided by a network of shared facilities called "Neighborhood Hotspots". These small community centers in different parts of Makoko contain decentralized biogas plants and serve as waste business incubator.



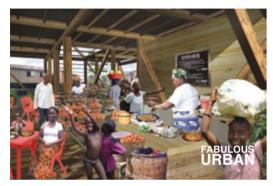


Makoko houses on stilts

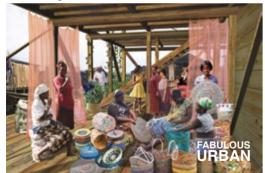




Neighborhood Hotspot Key goals



Biogas cooking The biogas can be used for community cooking with a small restaurant.



Waste upcycling Handmade products can be created from collected plastic and paper waste.



Rain water harvesting system Rain water is collected, filtrated, and stored.



Sanitary facilities Against a small fee toilets and showers are available; the waste is used for the biogas production.



Professional health care A doctor's room provides basic medical service and trains community members (nurses).



Urban gardening Fertilizer, the byproduct of the biogas plant will be used to grow tomatoes, peppers, and salad.



Empowering girls and women Basic education on health care and contraception as well as a small library and a few shared computers in a multi-purpose room are provided.

Neighborhood Hotspot Return of investment

The operation of the Neighborhood Hotspots is provided by a biogas cooperative.

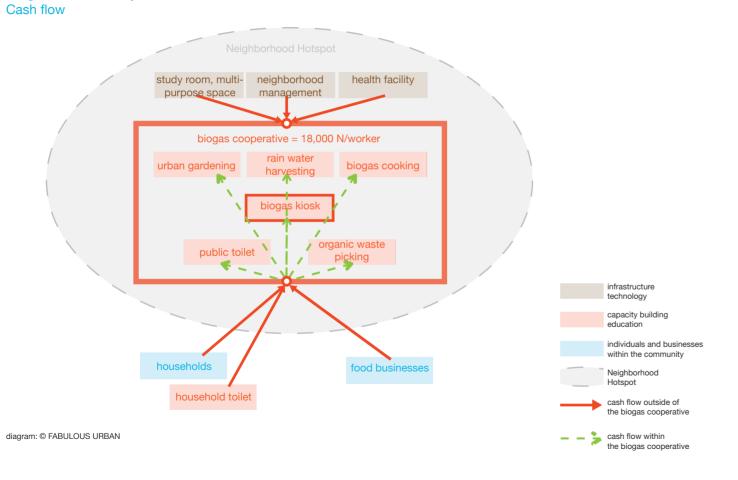
The cooperative pays each worker the same monthly salary of 18,000 Naira (minimum wage). The rest will be saved in a fund for reinvestment and maintenance.

earnings
savings of the cooperative
income of the workers



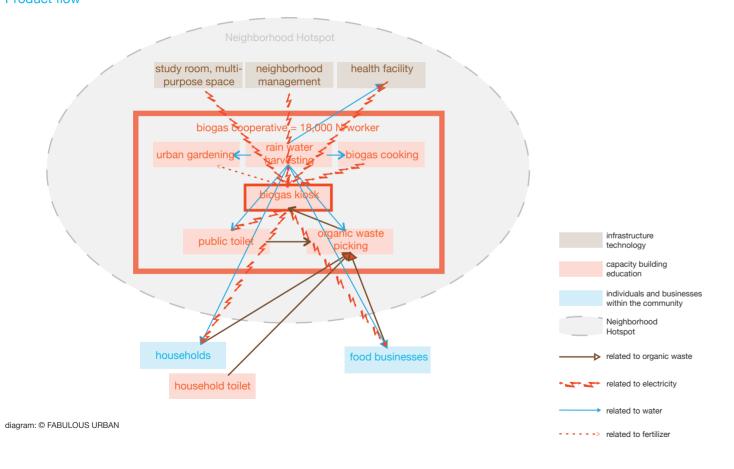


Neighborhood Hotspot

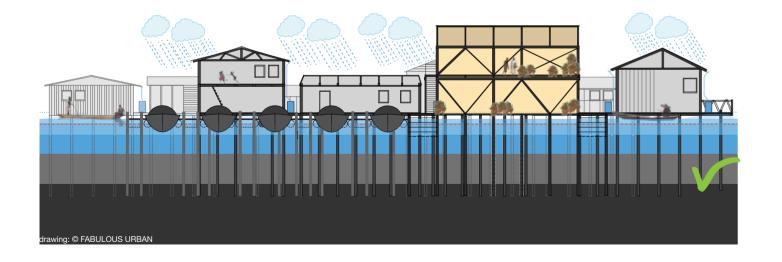




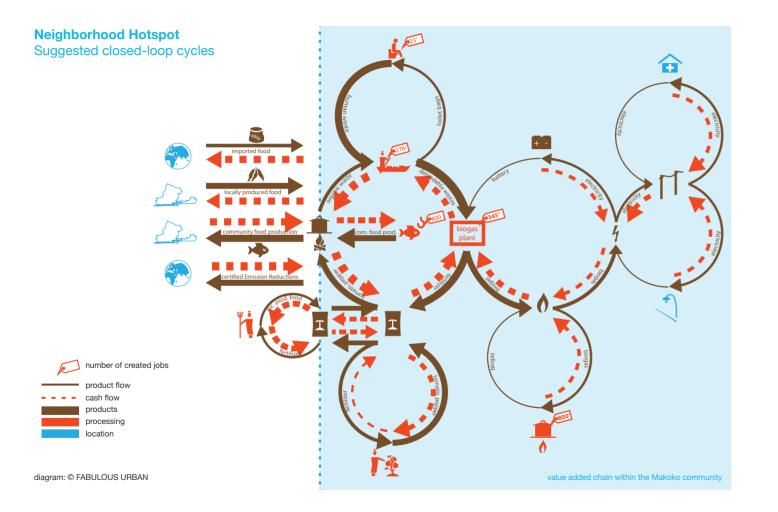
Neighborhood Hotspot Product flow



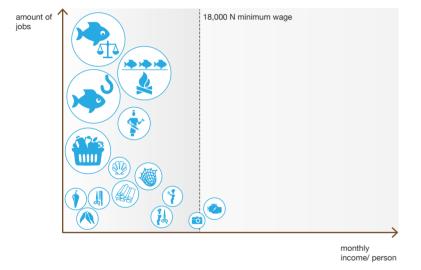






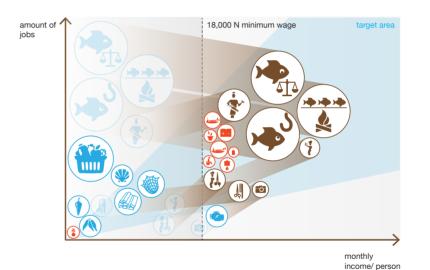






Today, 40% of the Makoko community lives below poverty line (on less than 1.25 US\$/ day) and almost no-one is able to secure their livelihoods.*

*Data based on field research Makoko April 2013 and Rosemary Omoayena Yadua, Determinants of Urban Housing for the Poor, 2009)



The aim of the Makoko economic development plan is to create new job opportunities trough the new waste economy and improved existing job opportunities.

It is a declared goal that all these jobs generate a salary above 18,000 Naira.* All our calculations on the amount of jobs, on turnover, benefit, and hence re-investment are based on this value.

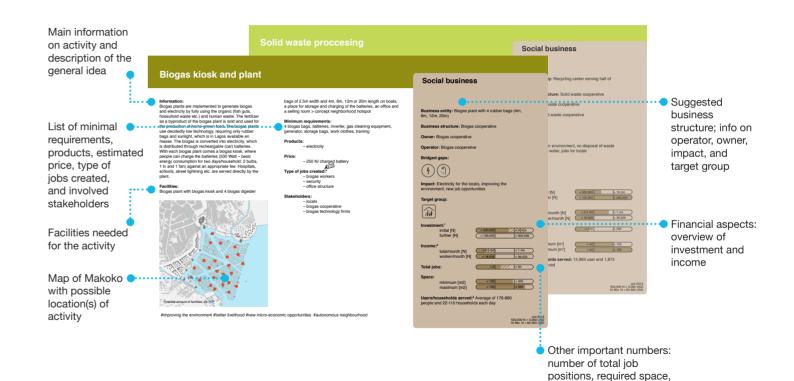
existing jobs
transformed jobs
new jobs through the
suggested waste economy

*Minimum wage in Nigeria according to the EFInA (Enhancing Financial Innovation & Access)

Opportunity cards

The opportunity cards explain in detail all the new job opportunities: economically, socially, spatially. They inform about minimal investment, minimal spatial requirements, expected turnover, target group, new jobs, and profit.





and users served

Opportunity cards

Social business opportunities impact oriented

Organic waste economy



new

Solid waste economy



Pro-profit business opportunities market oriented

Leisure and tourism

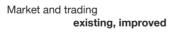
new

Urban manufacturing existing, improved





Fishing and fish processing existing, improved









Waste upcycling

Pro-profit business



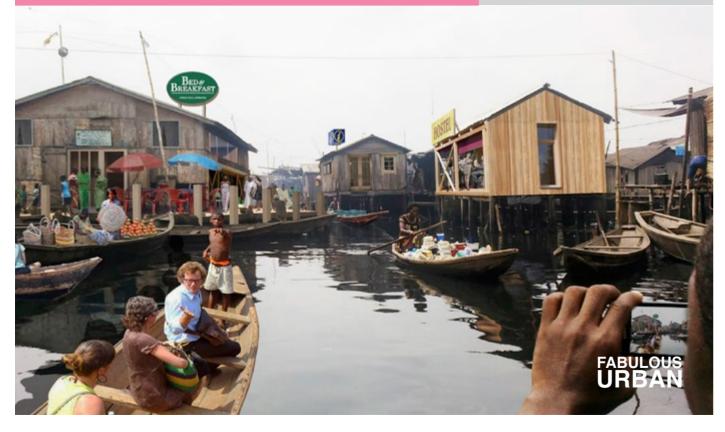
Eating in Makoko

Pro-profit business



Sleeping in Makoko

Pro-profit business



Floating markets

Pro-profit business



Tourism vision Strategy map for Lagos State





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