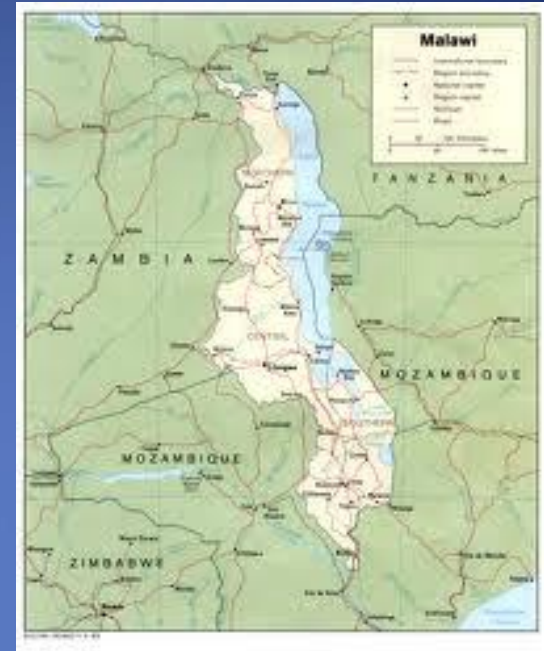




Ripple Africa

An example of sustainability and integration



16 million people



Geoff and Liz Furber

Beautiful but poor

- 80% of people work the land
- 33% of women and 24 % of men illiterate
- Unsustainable migration and denuding of land
- Inter-related economic, educational and health issues
- Life expectancy = 47 years



Bore-hole



Granary



Zebu

10% of children die before 5

- Malaria is biggest killer
- 1 in 8 have HIV-Aids (nearly 1 in 3 in Nkhata Bay)
- Malnutrition
- Unsafe drinking water
- Poor sanitation
- Women typically bear five children
- Spending on public health provision is £30 per head
- Substandard health provision



But also radiant and successful





Pre-Schools

One in eight children are orphans

- Eight pre-schools
- 24 teachers
- Toys, blackboards, chalk, pens, books, tea and sugar, cups
- Buildings refurbished
- Sweet potatoes grown for lunch





Primary Schools

Aim is to halve pupil-teacher ratio – currently 105:1

- Assisting five schools
- 15 trainee teachers
- 2 double classroom blocks at Mwaya Primary School
- Teachers' office and toilets also at Mwaya PS
- Double classroom block at Mazembe PS with *Taking Back Lives* charity



Kapanda

Secondary School

Built by Ripple Africa

- Four large classrooms
- Teachers' houses
- Toilet blocks, teachers' offices and a secure storeroom
- Experimental teaching garden for agriculture students
- Football pitch and netball court



Plans

- Laboratory
- Library
- More teachers' houses



Community Library



Chief Chibunya borrows a new book from the library every week

- 4000 books, magazines and newspapers
- All perfectly catalogued
- Educational benefits
- Enriches lives

College and University

- All students from around Ripple Africa's Mwaya base
- Accountancy, engineering, teaching, nursing and others



Yelerd

Mechanical Engineering undergraduate



George

Accountant at Deloitte in Blantyre

In their own words

“All of our university and college students come from our own communities, have come through the Ripple Africa system and are known to us personally, and must have earned their place at university through their own merit.”

“If a student is talented and has worked hard enough to earn a place, Ripple Africa feels they should be supported.”

Dispensary



Requested by District Health Officer

- *Fondation Eagle* (Swiss medical aid organisation) funded
- School party from UK helped dig the foundations
- Local builders constructed
- Official opening June 2011



The dispensary's work

- General out-patients clinic
- Clinic for under-5s
- dispensary for commonly-prescribed medicines
- Malaria, HIV-Aids and effects of malnutrition main cases
- 1 nurse per 18,000 people
- 1 doctor per 200,000 people



Disabilities and rehabilitation



400 disabled people in a population of 18,000

- Identify disabled people in the community
- Provide clinical rehabilitation services for the disabled
- Help family members self-manage
- Mobility aids & rehab equipment
- Reduce social stigma
- Community rehabilitation provider
 - Deals with cerebral palsy, club foot, congenital malformations, muscular dystrophy, Down's syndrome, amputees, injury, arthritis, burns, blindness, developmental delay



Deforestation

Southern Malawi has almost no forest



Northern Malawi is still tree-covered

Wood, hunger and waste



3-stone fire gobbles 150 bundles a year/family



3 large trees make one small house



Farmers burn their land as a quick way to clear it, destroying nutrients

– but mango trees and thatching grass lost



Erosion

Nkhata Bay has 1.2 metres rain a year



Soil washes down the rivers to the lake, leading to erosion

Solutions



By-laws banned all farming, burning, wood harvesting, and settlement in the protected forest hills



District Commissioner, Forestry Department, Traditional Authorities Village Headmen and volunteer Conservation Committees worked together

Tree planting project

- More than 3 million trees planted
- Sustainable source of quick-growing trees
- Lowers demand on indigenous trees
- Restores degraded land with new indigenous
- Garden clubs, villages and primary schools grow trees
- Bee keeping
- Improved nutrition
- Income generation



Avocado, banana, citrus, guava, mango, pawpaw



Senna siamea trees grow quickly and can be coppiced after 5 years for firewood

Community education

Replace traditional open fires with stoves

so less of this



If nothing changes
20,000 families in Nkhata Bay district = 3 million bundles of cooking wood **every year**



Households grow trees for fuel and fruit trees to eat and sell



Teach people how to compost

How much does it cost?

Fish Conservation

Over-fishing and use of mosquito nets

- 40 kilometres of lakeshore protected
- Fish Conservation Committees, one per kilometre
- 4-month close season adopted under by-laws
- Local permit deters migratory fishermen
- Fishermen using larger-meshed gill nets



How much does it cost?

- 20p = a tree for fuel
- £1 = a fruit tree
- £4 = a cookstove
- £15 = an integrated household project*
- £400 = a community beekeeping project
- £850 for a teacher's salary
- £8000 = a nurse's or teacher's house

* A changu changu moto cookstove, 25 trees for fuel and 10 fruit trees

Providing a hand UP, not a hand out