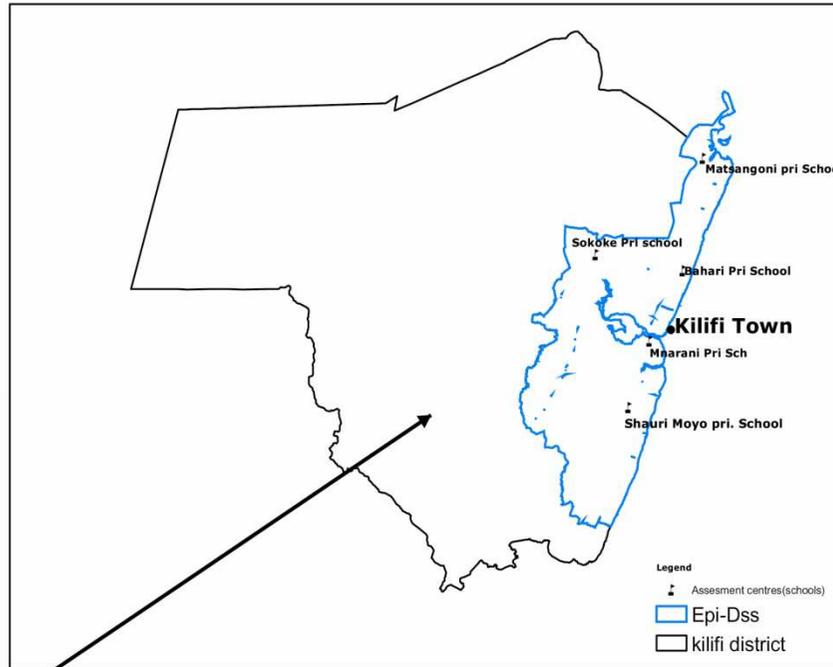
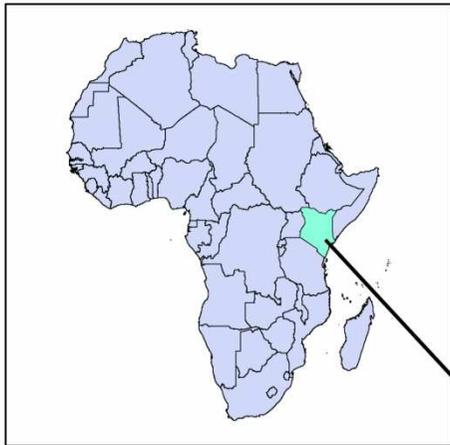


KEMRI Wellcome Programme Kenya



welcometrust





Source: Kilifi Epi-Dss
GIS & Cartography by Census Department

KEMRI Wellcome programme

KEMRI: Parastatal established in 1979 by the Kenya Government and mandated to carry out health research in Kenya

Oxford University: A major teaching and research university providing academic and logistic support

Wellcome Trust : an international charity funding health research

Evolution of Programme

1987 discussions on collaborative projects KEMRI - Oxford, with Wellcome funding

1989 Projects begin

1995 Kilifi made KEMRI Centre

1998 Kilifi and Nairobi WTRL form a single Unit

2005 Full integration of MOP within KEMRI

KEMRI Centre for Geographic Medicine research Coast 1989-2009

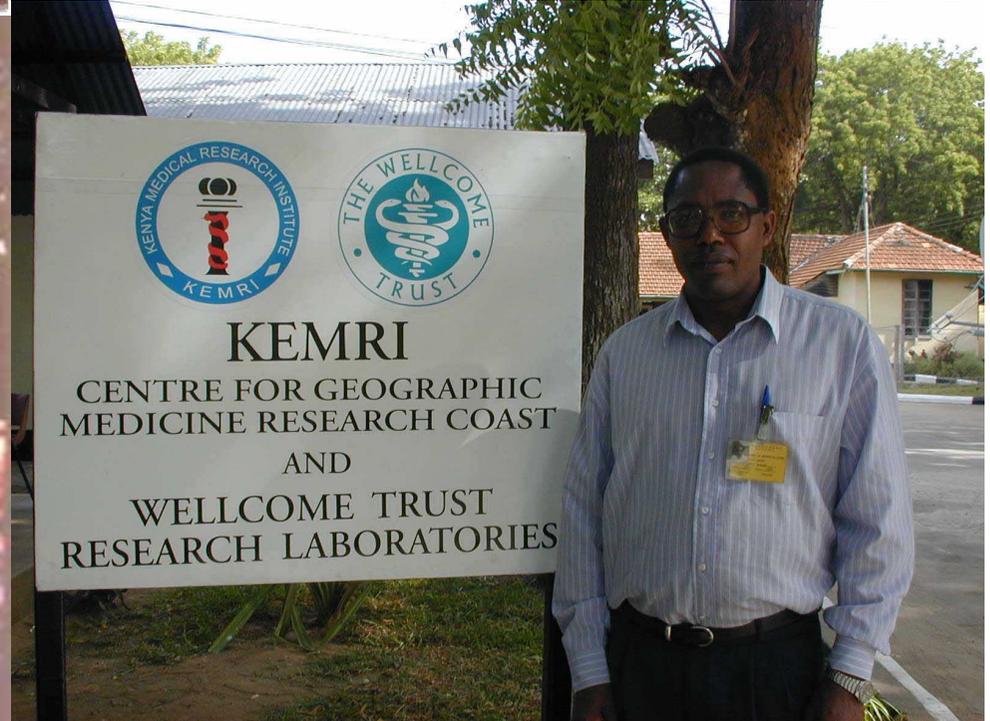


1989

Wellcome Trust-KEMRI collaborative project

3 Kenyan scientific staff

4 expatriate scientific staff



KEMRI Centre for Geographic Medicine Research Coast 1989-2009



KEMRI Centre (Wellcome Trust 70% funding). Over 600 staff.

90 Kenyan scientific staff

18 expatriate scientific staff

80 International collaborations



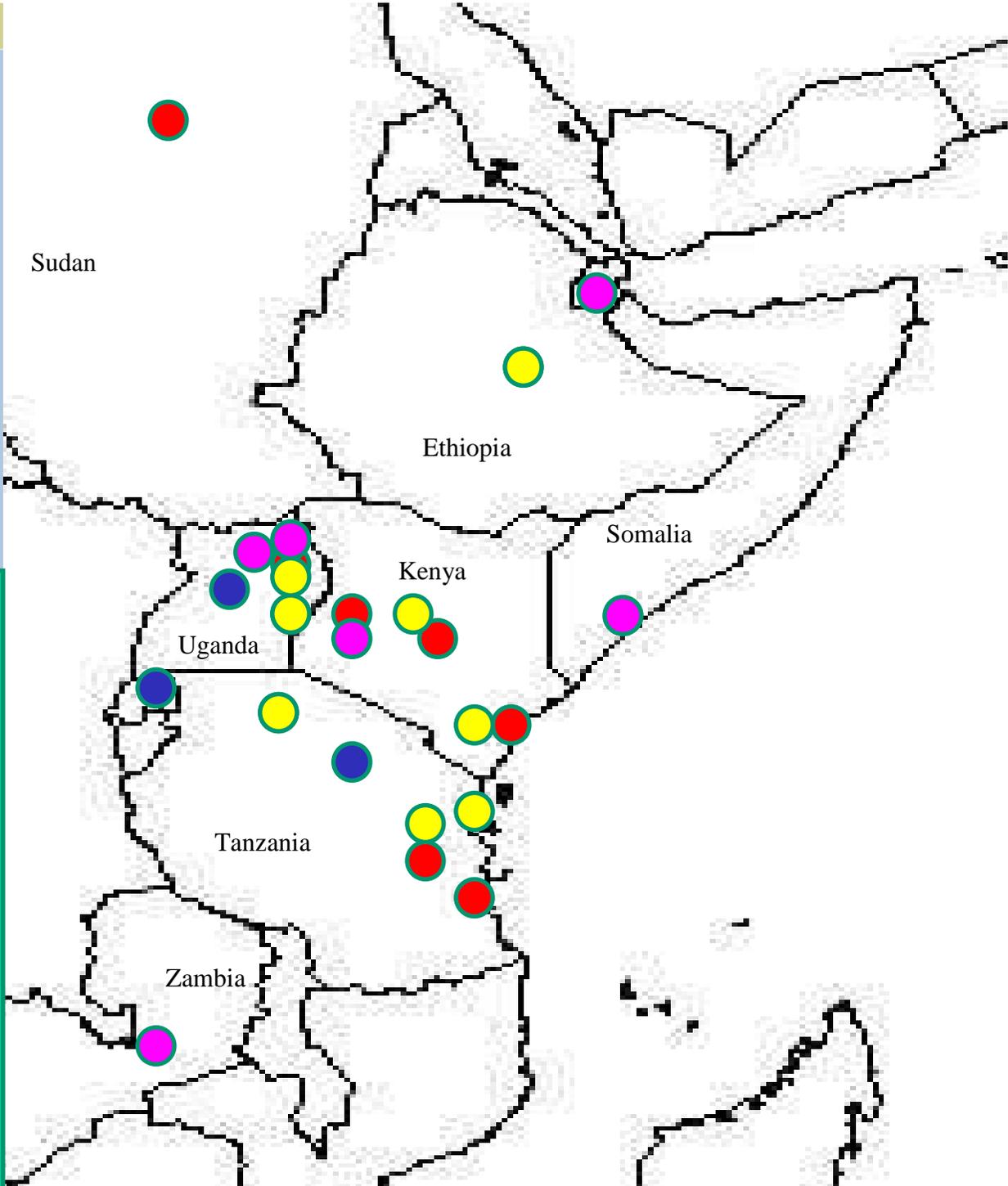
KEMRI Wellcome Links

 SEARCH

 Clin Trials Net

 Other collaborations

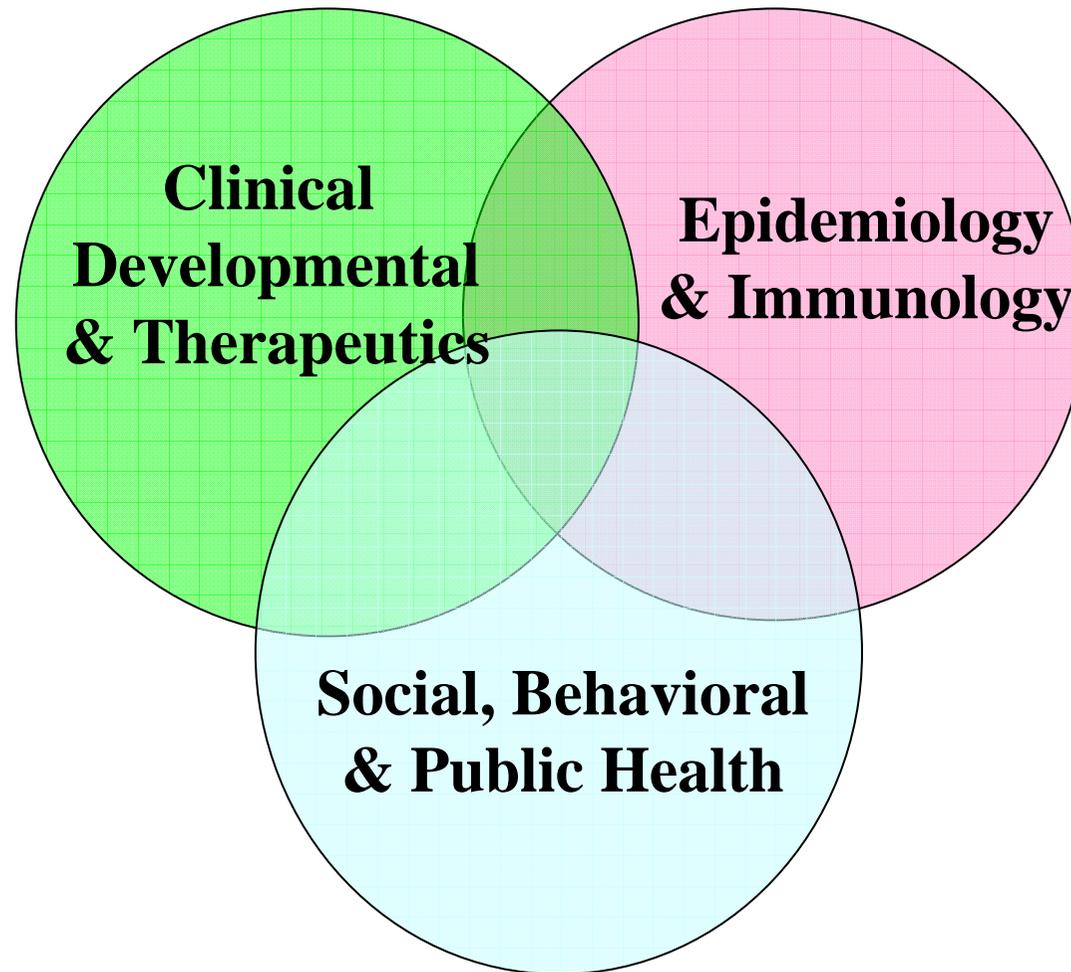
 Other links



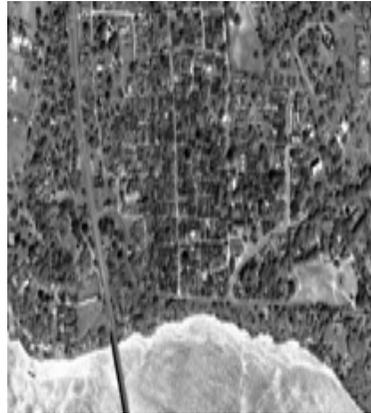
Principles of Programme

- Research to highest international scientific and ethical standards on major causes of morbidity and mortality in Africa.
- To build strong and sustainable internationally competitive, national and regional research capacity.
- Integration and cross fertilization of scientific disciplines.
- Intervention research and basic research in parallel.
- Direct input to local and international health policy.

Major Research Themes



Research Infrastructures1

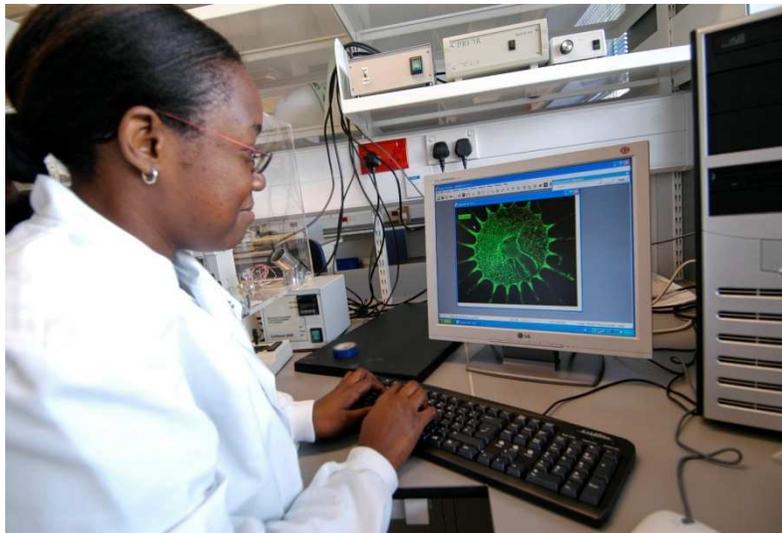


Demographic & Epidemiological surveillance – 240,000 people



Clinical surveillance and investigation > 5,000 admissions p.a.

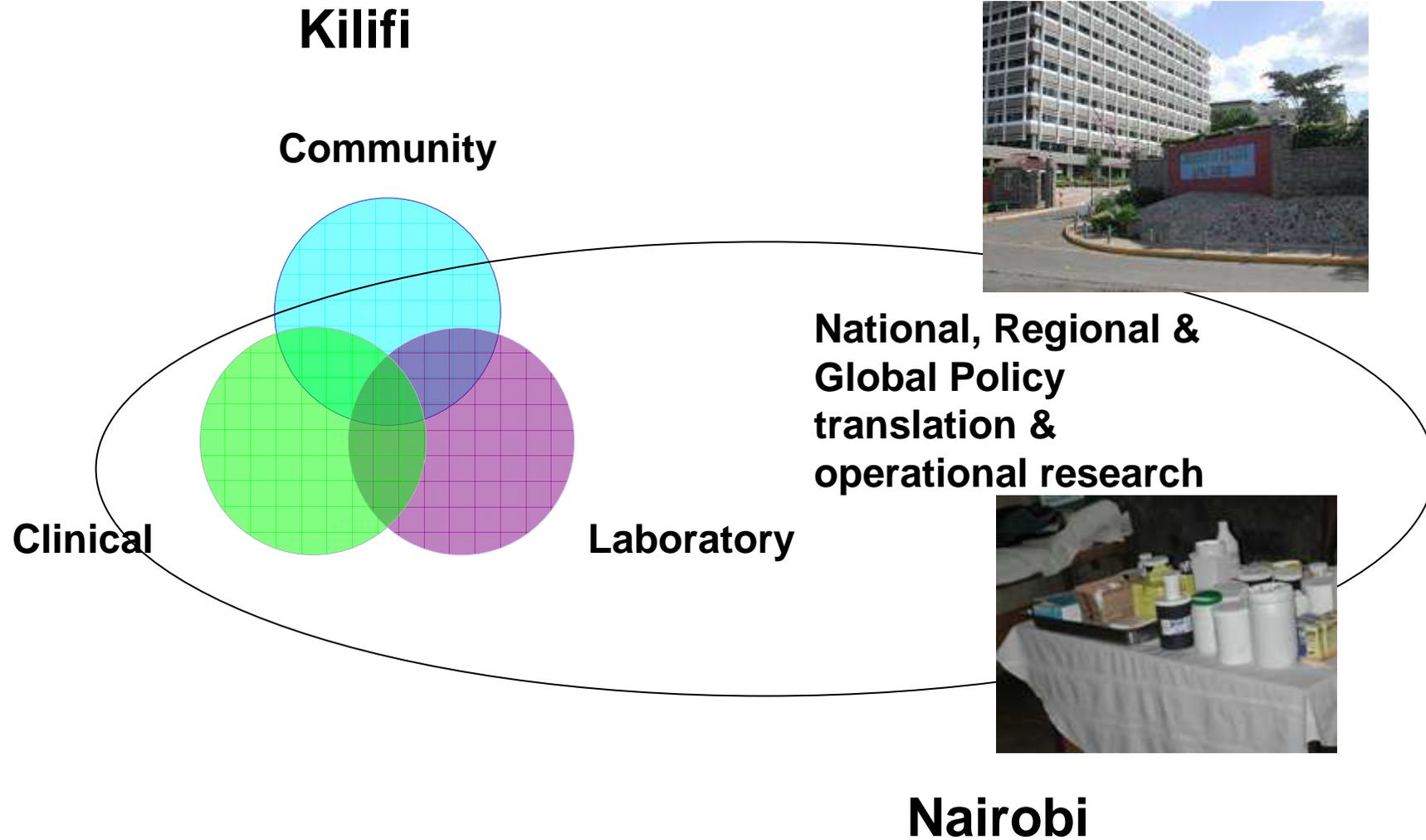
Research Infrastructures 2



Laboratory and IT services linked to clinical and field



Integrated research framework



Clinical Research

Clinical surveillance: over 50,000 consecutive admissions

Focus on the sick child

Malaria

LRTI

Invasive bacterial disease

Neonatal disease

HIV

Malnutrition



Therapeutics Research

Pharmacokinetics and dynamics
to optimize regimens for
children

Randomized Controlled Trials

Antimalarials

Antibiotics

Anticonvulsants

Fluids



Laboratory Based Research

Immune response
and pathogenesis

Malaria

Pneumococcal
disease

RSV



Epidemiology Research

Birth Cohorts:

Risk factors

Natural history studies

Genetic associations

Entomological studies:

Force of transmission

Larval ecology



Community Based Research

Surveillance of 200,000

Epidemiological studies:

Malaria

Pneumococcal disease

RSV

Interventions:

Impregnated bed nets

Home based Care

Vaccines



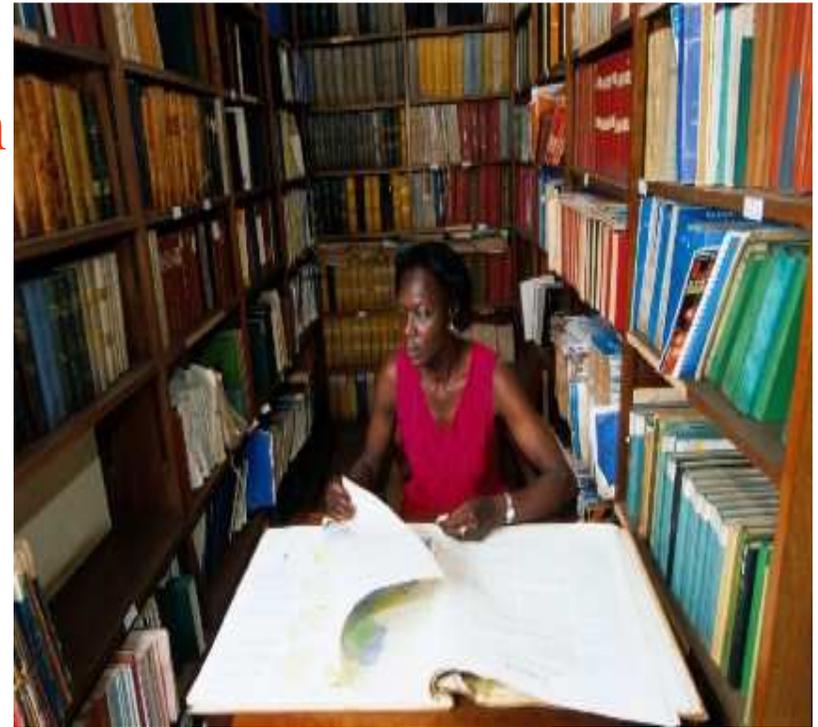
Health Policy and Systems Research

Burden of Malaria
In Africa

Economic Basis of Control

National Drug Policy

Access and Quality of care



Training and capacity building key issues

- Critical mass- scientific and intellectual support
- Career structure
- Long term strategic view

Capacity building in the KEMRI Wellcome programme

Attract and screen the brightest science undergraduates.



150-300
6 month internship

well educated science graduates with exposure to research will go into teaching, Industry, MSc training etc.

Recruit mostly from the intern pool.



50
4 year PhD plus 1 year post doc.

PhDs with excellent training will go into academia, Ministry of Health, other government departments, industry, NGOs

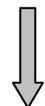
Additional visiting fellowship schemes to attract researchers from the African Diaspora to spend time in centres, some of whom would apply for Post doctoral Fellowships.



25
5 year post doctoral fellowships

experienced Post doctoral researchers will go into academia, industry, government and international organizations

Not all Post doctoral Fellows will complete 10 years, applications for senior posts would be from 7 – 10 years Post doctoral experience



15
5 year post doctoral fellowships

world class researchers with secure posts will develop their own research groups, draw in international funding and be the driving force for the long term development of health research in Africa.



10
Senior researchers

Vision

- International Centre of excellence in basic and applied research
- Strong integration with Ministry (s) of Health
- Providing definitive evidence base for health policy
- Development of a strong basic science platform to support long term development of new interventions
- Playing key role in a regional network of developing centres
- Developing a cadre of internationally competitive research leaders

