

# Why 'R'?

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# I needed STATs software for my students

- For my training - STATA (phD) - Epi Info (Msc)
- For the 1st MPH group Dr Osman taught Epi Info but we felt we needed a more robust software -So I went to my STATs guru - What is the way forward





R?.....you are  
kidding right?

HE PUT IT IN A LANGUAGE THAT I UNDERSTAND



# What is the cost of software

-STATA - They don't even show you the price - you actually have to log in and fill a form to get it -

<http://www.stata.com/order/lab-quote-request/> -

KEMRI-Wellcome trust program in Kilifi spend 2,000 US\$ upgrading their STATA license 2014

-Anyone know the cost of SAS?

- The cost of SPSS?

# The cost of 'R'

FREE

Who will Prof Rajab listen to and support?



# Ken Mwai

- Greg passed me to this young man who has been the backbone of the R-workshops we have hosted in Pwani University



First 'R' stats workshop for post-graduate students in SPAS 10th - 21st February, 2014

# 1st 'R' Workshop from 10th - 21st Feb, 2014



A tot  
8 Ma  
3 MS  
5 MS  
1 MS  
2 MS  
1 Ph

# 1st 'R' Workshop from 10th - 21st Feb, 2014

KEMRI-Wellcome Trust Research Program, Kilifi	KEMRI-Wellcome Trust Research Program, Nairobi	Pwani University
Dr Greg Fegan	Dr Phillip Ayieko	Dr Rose Kigathi
Ken Mwai	Lucas Malla	Dr James Tuju
John Ojal	Gabriel Otieno	Dr Tabitha Mwangi
Mark Otiende		
Michael Ooko		
Leonard Wafula		
Alex Mutuku		
Boniface Kaaria		

# Lessons Learned (sorted)

- Too much time wasted downloading materials
  - Materials were put on a CD that was given to each student but this slowed the training
  - Pwani university server set up for this purpose
- Some students last did stats in high school
  - Students must be exposed to stats in class first
- Lack of uniformity with plethora of facilitators
  - Reduced number of facilitators
  - Put all presentations on markdown ahead of workshop

## Second statistics workshop for post-graduate students in SPAS - 9th - 20th February, 2015

## 2nd 'R' Workshop from 9th - 20th Feb, 2015



21 students  
10 Master's  
6 Master's  
3 MSc Fis  
1 PhD in  
1 Staff (P

# 1st 'R' Workshop from 9th - 20th Feb, 2015

KEMRI-Wellcome Trust Research Program, Kilifi	KEMRI-Wellcome Trust Research Program, Nairobi	Pwani University
Dr Greg Fegan	Dr Phillip Ayieko	Dr Leonard Kiti
Ken Mwai		Dr Osman Abdullahi
Mark Otiende		Dr Tabitha Mwangi
Michael Ooko		Dr Rose Kigathi
Leonard Wafula		
Alex Mutuku		



# We are getting better

- Students more confident -those who had not covered the statistics course in class were not allowed to attend
- The days were shorter and a lot more was covered
  - no time wasted downloading material due to good network due to the local server

## Lessons learned (not sorted yet)

- Not able to cater for all student needs
  - Mainly targeted to public health students
  - Fisheries, Agriculture, animal science - 'Trainer of trainers' workshops idea born
- A few students not attending all sessions
  - A fee (2,000/-) added to the second workshop did not solve the problem
- Inability to pay facilitators
  - All facilitators earn nothing
  - Might be impossible to sustain
  - Idea of commercializing R workshop born

# Why trainer of trainers workshops

- To cater for all specializations
  - Fisheries, Education, Economics, Social sciences, Physical sciences
- To enable a larger group of students to be introduced to 'R'
  - To enable 'R' to spread to both under-graduate and post-graduate students
- To enable Pwani University to stand independently of KEMRI in running workshops
  - To collaborate but not from a place of neediness
  - To build skills to enable R workshops to be run commercially from Pwani University