INDEPTH/ WITS Scientific and Leadership Development Initiative

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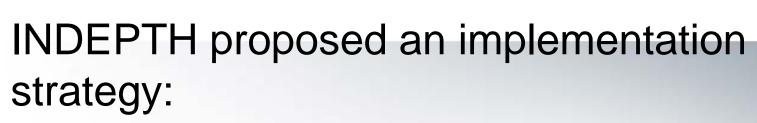
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Background

INDEPTH identified the need:

- To develop the next generation of Scientific Leadership in INDEPTH sites and the Public Health Research Community in developing countries.
- To optimise the use of DSS data by local scientists.





- Postgraduate course in Populationbased Field Epidemiology
- Partnership with a selected university
- Develop capability and infrastructure in selected INDEPTH learning sites
- Partnerships for course development,
 DSS site attachment and funding.

MSc in Population-based Field Epidemiology



- Offered since January 2005
- 18 months full-time programme
- 12 months for course work at Wits and Agincourt, a study DSS site
- 6 months for field attachment
- Minimum requirements 4 years bachelor degree and relevant work experience
- Competitive selection

Design of MSc programme



	Jan - May	June	July - Sept	Oct- Dec	Jan - June
Coursework	Orientation Basic coursework	Midterm exam	Advanced coursework	Final exam in October	
Research protocol development	Protocol development Meeting with site supervisors		•Submit protocol to Wits assessor group and ethic committee	•Protocol approval	
Field attachment training					Orientation Conduct research Service learning Submit report

Curriculum structure:



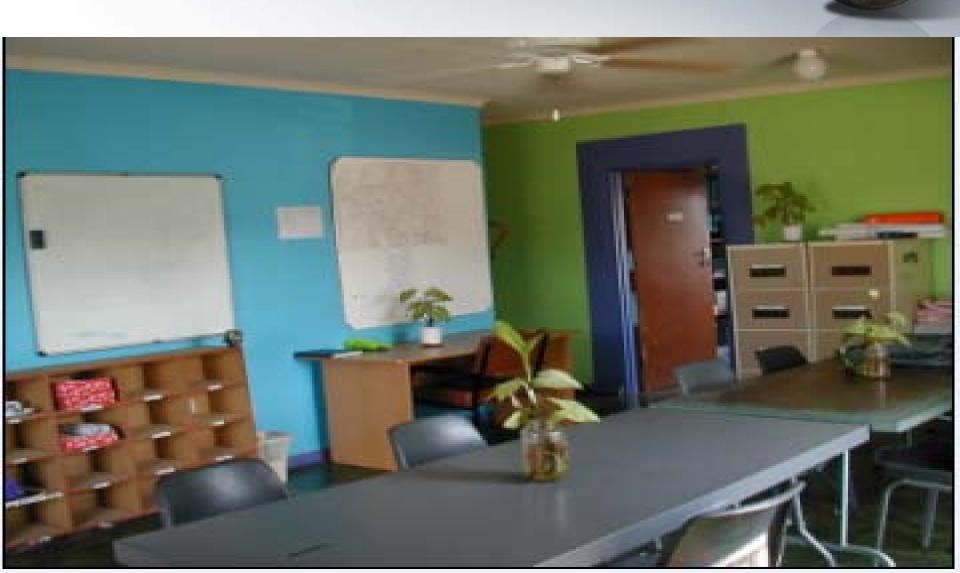
- Five arms:
 - Epidemiology
 - Biostatistics and Data Management
 - Demography and other Social Sciences
 - Relational data and management of DSS data
 - Leadership

Curriculum cont....



- Integrated field component:
 - Course work at Agincourt DSS
 - Assignment of demography module
 - Research project at DSS learning site
 - Management and leadership internship at DSS learning site

Teaching room at Agincourt DSS



Field trip at Agincourt







Uniqueness of course:

- Substantial field based training at DSS sites
- Mixed mode of teaching
- Develop expert skills in dbase management
- Integrate quantitative and qualitative training methods
- Nurture scientific leadership among young developing-country researchers with initial focus on Africa

Teaching room with data server at Agincourt office (Tintswalo)



Coursework evaluation



- 20 modules in total for five disciplinary arms
- Students' evaluation: (on the structure and content of the course)
 - "The course content is relevant, useful and rich";
 - "Focused on how to conduct good research and working in a health research institution"
 - "It is more focused and addresses what we expect in the work environment";
 - "The mix of demography, biostatistics and epidemiology in this course gives a broad perspective and admirable exposure. Such exposure gives a wide opening in formulating informed future areas of specialization".
 - "Too many modules for a year";
 - "Introduction to management theory and practice is not useful to my work";

The role of DSS learning sites:



- Three learning sites:
 - Navrongo HRC (Ghana)
 - Ifakara HRC (Tanzania)
 - African Center (KwaZulu-Natal, South Africa)
- Supervise research project
- Provide guided internship for leadership training

Requirements for DSS learning sites



- Capacity and availability of senior researcher/s for supervising student's research and mentoring
- Availability of data for student's research
- Facilities for student such as accommodation, office, computer, internet, in-house library, transport
- Administrative support

Number of applicants and enrolment for Wits Masters programme

	2005		2006		2007	
	n	%	n	%	N	%
Total Applicants	21		20		20	
Met Wits entry criteria and offered a place	8	8/21 (38%)	9	9/20 (45%)	11	11/20 (55%)
Applicants from DSS	11	11/21(52%)	9	9/20 (45%)	11	11/20(55%)
Accepted DSS applicants	5		7		9	
INDEPTH sponsored	5	5/5 (100%)	6	6/7 (86%)	5	5/9 (55%)
INDEPTH sponsored students withdraw	1		0		1	
INDEPTH funded students	4		6		4	
TDR and other sponsored students	1		2		2	
Total enrolled students	5		8		6	

Institutions, number of eligible students and students who took up the course (in italic) by year

2005	2006	2007
8/ 5 students	9/ 8 students	11/ 6 students
Navrongo DSS, (1/1) Ghana	Navrongo DSS, (3/2) Ghana	Navrongo DSS, (2/1) Ghana
Kintampo DSS (2/1) Ghana		Kintampo DSS, (1/1) Ghana
		Dodowa DSS, (1/1) Ghana
Kisumu DSS, (1/1) Kenya	Kisumu, (1/1) Kenya	Kisumu, (2/1) Kenya
African Population and Health Research Centre, (1/1) Kenya	African Population and Health Research Centre(1/1) Kenya	
	Vadu DSS (1/1) India	Papua New Guinea DSS (1/1)
	Fila Bavi DSS (1/1) Vietnam	Chililab (1/0) Vietnam
Public Health Department, Tropical Diseases Research Centre, Ndola, Zambia (1/1)	Biomedical research and training Institute. Harare, (1/1) Zimbabwe	Hanoi, School of Public Health/ Chililab (1/0) Vietnam
Red Cross Society, Ibadan, (1/0) Nigeria	National Commission for Social Action, Makeni, (1/1) Sierra Leone	University of Calabar,(2/1) Nigeria
Nairobi, (1/ <i>0</i>) Kenya		

Completion by year of intake



Year	Intake	Timely completion for course work	Timely Completion of thesis	Late completion of thesis	Graduated
2005	5	5	4	1	4
2006	8	7	6	2	seven are waiting for examiners report on research thesis and will graduate in December2007
2007	6	On-going -			



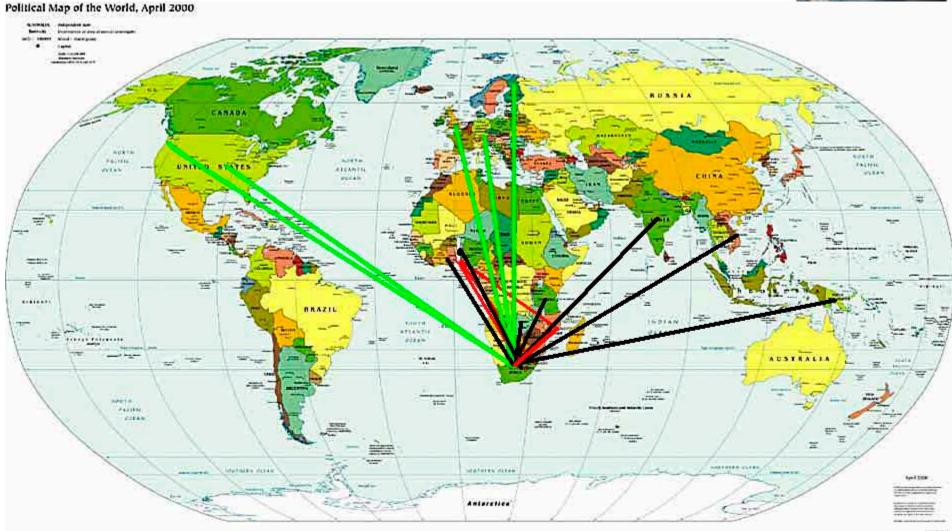
Discussion



- programme has so far achieved its goals
- the curriculum of all coursework and the integrated field attachment component were fully developed and tested
- programme established a strong relationship between the WSPH and the three learning DSS sites
- South to South as well as South to North linkages for capacity building in research and scientific leadership were strengthened

South-South and South-North Links





Progress

- one student presented his research paper at the 2006 AGM conference
- two papers and four posters presented at the 2007 AGM
- site supervisors of all three learning DSS sites were appointed as honorary staff members of WSPH
- the number of co-supervisors from the learning DSS sites for student research was increased
- Dr Cornelius Debpuur from Navrongo was nominated for the exchange staff programme by the Association of African Universities/DAAD

Challenges



- have not trained as many students as anticipated
- the programme is very staff time intensive from both an academic and administrative point of view
- to make the course more cost effective, recruit a larger number of students from a bigger range of DSS sites from different countries
- will require a larger number of field placement DSS sites to be involved or that existing sites take a larger group of students

Sustainability issue



- Recruit sufficient number of students to sustain the academic programme at Wits
- We need to secure funding to sustain the programme in Africa, e.g.
 - To increase number of fellowships
 - To support the programme cost (Wits/DSS staff annual meeting etc)
 - To further invest in the digital lecture hall to offer a vehicle for an ongoing training based in DSS sites
 - Re-entry research grants for recent graduates.

Evaluation of the programme by the DSS site leaders at AGM (2007)

- 74% (25 out of 34 DSS) replied.
- 68% of the DSS said they need this training
- the number of students need to be trained ranges from 1 to 15 per site
- However, 80% (20 DSS) said they had problems to send students mainly because of not having suitable candidates; eligible staff are essential for running DSS and English language proficiency
- 13 DSS (including Asia DSS and Africa Francophone DSS) said they are willing to be one of the learning sites

Application for 2008 academic year



- Extended closing date end of September 2007
- Visit the website <u>www.wits.ac.za/publichealth</u>
- Motivation letter from the candidate
- Two referees
- Application form for Wits accommodation
- Send directly to Post graduate office and to
- Also send cc to <u>khin.tint@wits.ac.za</u> or <u>lawrence.mpinga@wits.ac.za</u>