

Consortium for Advanced Research Training in Africa (CARTA): A model for training and retaining the next generation of African academics

UNIVERSITY LEADERS' FORUM: NEXT GENERATION OF ACADEMICS University of Ghana, Legon

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Outline



- Key elements of CARTA
- CARTA's current membership
- Timeline
- Related Initiatives
- Retention What you can do
- About APHRC



CARTA elements

CARTA members

Timelines

Related Initiatives

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Retention

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Rationale 1: Why a Consortium?

- Universities in Africa remain the key intellectual hub
 - The future development of the region rests with universities
- Yet, they face enormous constraints including:
 - Unprecedented growth in undergraduate enrolment and expansion of training programs (337k in 1980 to 4m in 2004 – WB 2005)
 - Inadequate funding (Budgetary share of higher education ↓ from 19% (1980-84) to 15% (2000-05)
 - Reliance on PhD-by-thesis model

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Rationale 2: Consequences

- Steady loss of university staff
- Low research output
- Doubts in the capacity of African universities to produce globallycompetitive graduates
- African scholars remain marginal to research
- Weak preparation of the next generation of African scholars

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Rationale 3 : Current realities

- Current stock of African academics mostly trained overseas
- Overseas training opportunities are much more limited
 - High and escalating costs
 - Low rates of return of overseastrained PhDs
 - Those who return often drift away from teaching and research

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Rationale 4: Implications

- African Technical Department Report (2002): 'if nothing urgent is done now, African universities will be empty of brains in the next few decades'.
- African Partnership Forum (2007): Africa currently employs up to 150,000 expatriate professionals at a cost of US\$4 billion a year to fill the human resource gap created by brain drain
- The continent's share of global scientific output fell from 0.5% in the mid-1980s to 0.3% in the mid-1990s

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Rationale 5: The Challenge ahead

- Majority of the next generation of academics in sub-Saharan Africa will be trained locally
- Urgent need for globally-competitive graduate programmes
- No individual university or country has the human resource capacity for such programs
- Hence.....
 - The CARTA Consortium

Overview CARTA elements CARTA members

Timelines

Related Initiatives

a)

b)

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Goals of the Consortium

- Facilitate creation of globally-competitive multi-disciplinary doctoral training program Strengthen technical skills of doctoral students
- c) Retain trained capacity within Africa
- d) Create critical mass of multi-disciplinary research teams within universities
- e) Strengthen research management, administration, & supervision skills
- f) Increase research output & productivity
- g) Create opportunities for multi-country Africaled research partnerships
- h) Strengthen linkages between research & policy

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Key Elements of CARTA

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Student training

Strengthening doctoral training

- Joint Advanced Seminar Series
- Online support STATA user group model
- Participation in international conferences
- Targeted sandwich/internship at a Northern or Southern university
- Research grants for student-initiated projects
- Library support to students
- Post-doctoral components
- Monthly stipend to facilitate fulltime studentship

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Student training

JASS Model

- Stage 1: Introduction to critical thinking/research
 - Interdisciplinary research, conceptualizing research projects, research design, developing instruments, literature & data resources, research ethics, etc.

Stage 2: Data analysis

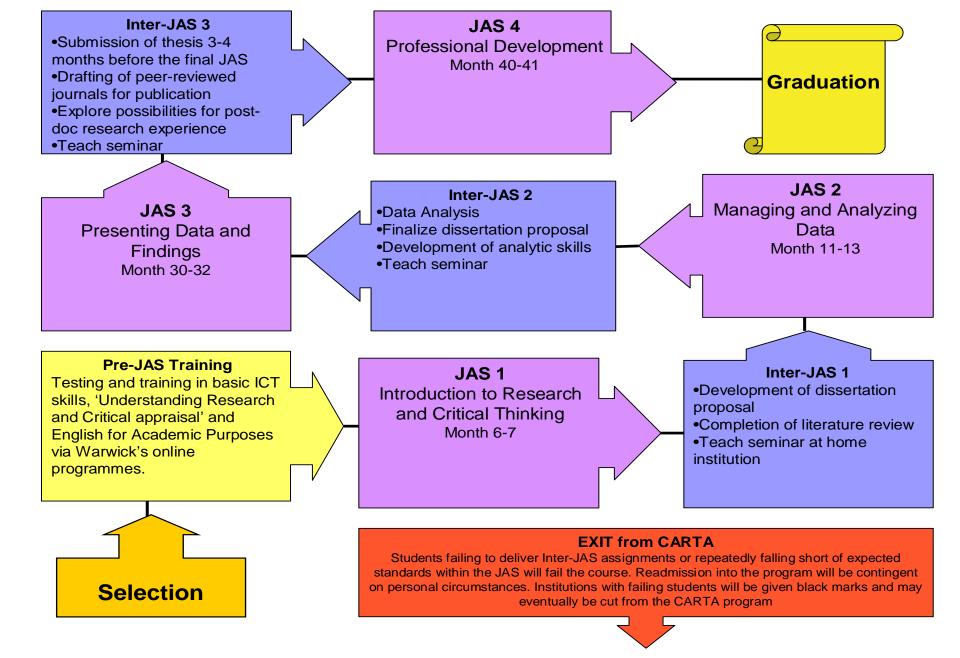
 Mixed-methods approaches, identifying appropriate analytical models, model assumptions, common errors in data analysis, basic analysis to complex modelling, etc.

- Stage 3: Interpretation and writing up of results

• Communicating research to policy makers, presentation skills, scientific publications, identifying appropriate journals, etc.

Stage 4: Beyond PhD

 Proposal writing, budgeting, managing research grants & partnerships, research ethics, developing course outlines & teaching materials, research & policy linkages, etc.



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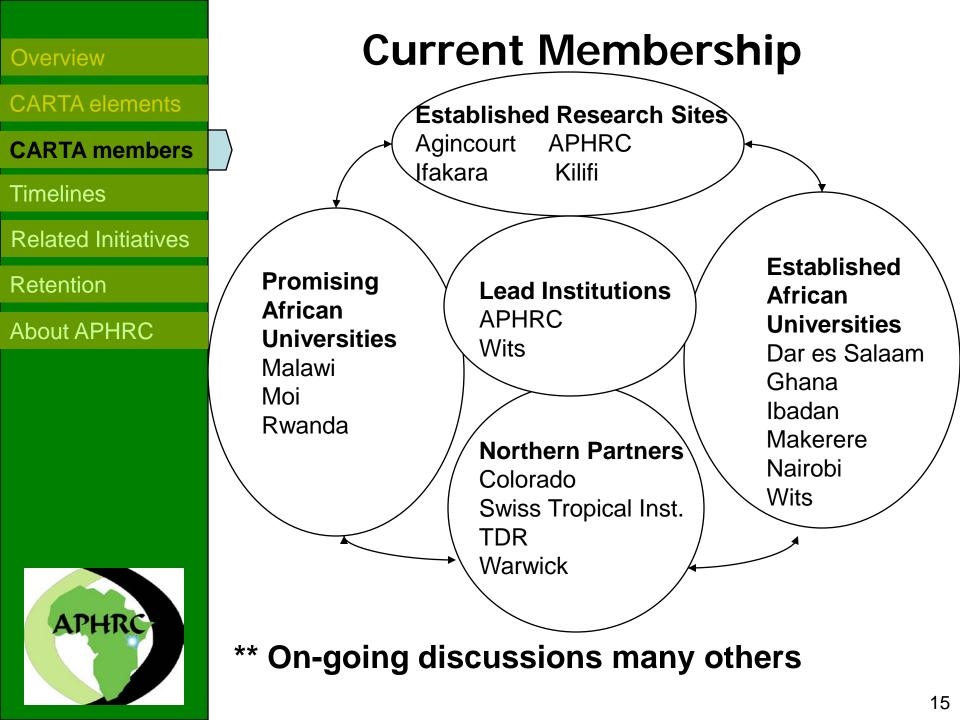
Institutional capacity building

- Training sessions for faculty & staff
 - Supervision of doctoral students
 - Grant writing
 - Research management and administration
 - Management of partnerships
 - Leadership skills
- Infrastructural support
 - Internet connectivity, library, computers, etc
- Support in developing multi-disciplinary research programs
- ** Development of institutional capacity to support research and training

Current Membership

CARTA elements	African Universities	African Research Centers	
ARTA members	Makerere Univ., Uganda	APHRC (Kenya)	
ïmelines	Moi University, Kenya	Ifakara Health Institute, TZ	
Related Initiatives			
letention	National Univ. of Rwanda KEMRI/WT Res. Program, KE		
bout APHRC	Univ. of Dar es Salaam, TZ	Agincourt PHU/Wits, SA	
	University of Ghana	Northern Partners	
	Univ. of Ibadan, Nigeria	WHO/TDR	
	University of Malawi	Swiss Tropical Institute	
	Univ. of Nairobi, Kenya	University of Colorado, USA	
	WITS, South Africa	University of Warwick, UK	
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** On-going discussions many others



Timelines

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	May 2006	Roundtable on doctoral training in Africa
	June 2006 – June 2007	Consultations
	Jan. 2008	1 st Meeting of partners – in Dar es Salaam
	Feb. 2008	Submission of EoI to Wellcome Trust
	May 2008	Invitation to submit a full proposal
	Sept 2008	Full proposal submitted
	Ongoing	Raise additional funds to increase number of students from 14 to 25 per cohort
	Jan. 2009	Rollout of the Program





Timelines

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Related Initiatives

Other Capacity Building Initiatives

- CARTA-Med
 - Research training for medical doctors during specialization
 - Training of mid-level health workers
- African Doctoral Dissertation Research Fellowship (ADDRF)
- Technical workshops
- Internships
- Research traineeship programs
- Sabbatical fellowships

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Retention: What we can do

- Flexible appointments
 - Existing expertise outside the university
 - Research appointments
- Redefine parameters for salary negotiations
- Recognize and reward research productivity
 - Buy out time
 - Promotions defined by output rather than years of experience
- If accounts/bursary is a problem, outsource!
- Apply limited research funds to productive faculty

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The African Population and Health Research Centre

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Background

- Pan-African Research Institute set up in 1995 as a fellowship program of the Population Council with funding from the Rockefeller Foundation
- Became autonomous non-profit international organization in 2001
- Current Status
 - 501(c) 3 status in the US
 - Headquarters agreement with Govt. of Kenya

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Vision and Mission

Vision

"To be a global centre of excellence, consistently delivering sound scientific evidence for policy and action"

Mission

"Promoting the wellbeing of Africans through policy-relevant research on population and health"

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- Provide an enabling environment for African scholars
- Strengthen professional and institutional research capacity
- Promote the dissemination and utilization of research findings for policy and program improvement



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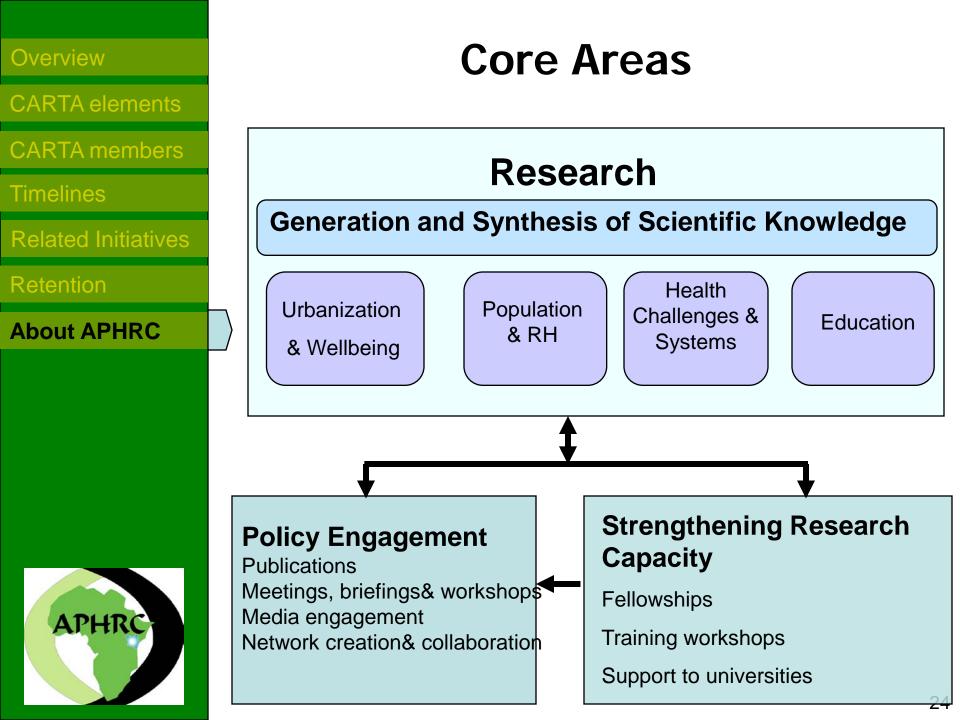
Retention

About APHRC



Who we are

- About 40 Research Staff
 - Multi-country (from 12 African countries)
 - Multi-disciplinary team
 - Demography, Biostatistics, Health Economics, Development Economics, Sociology, Anthropology, Socio-linguistics, Public Health, Epidemiology, Education Policy/Planning
 - 20 PhDs and 19 MA/MSc/MPH degree holders
- 17 Administration and Support Staff
- 75+ Field and Data Entry Staff
- About 150 field staff on short term contracts



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Conclusion

If we consistently apply the same strategies that have failed us over the years, we can't expect a different outcome tomorrow!





Thank You!