

Africa Higher Education Centers of Excellence

Meeting demand
for specialized Skills and Knowledge
critical for Africa's development



Content

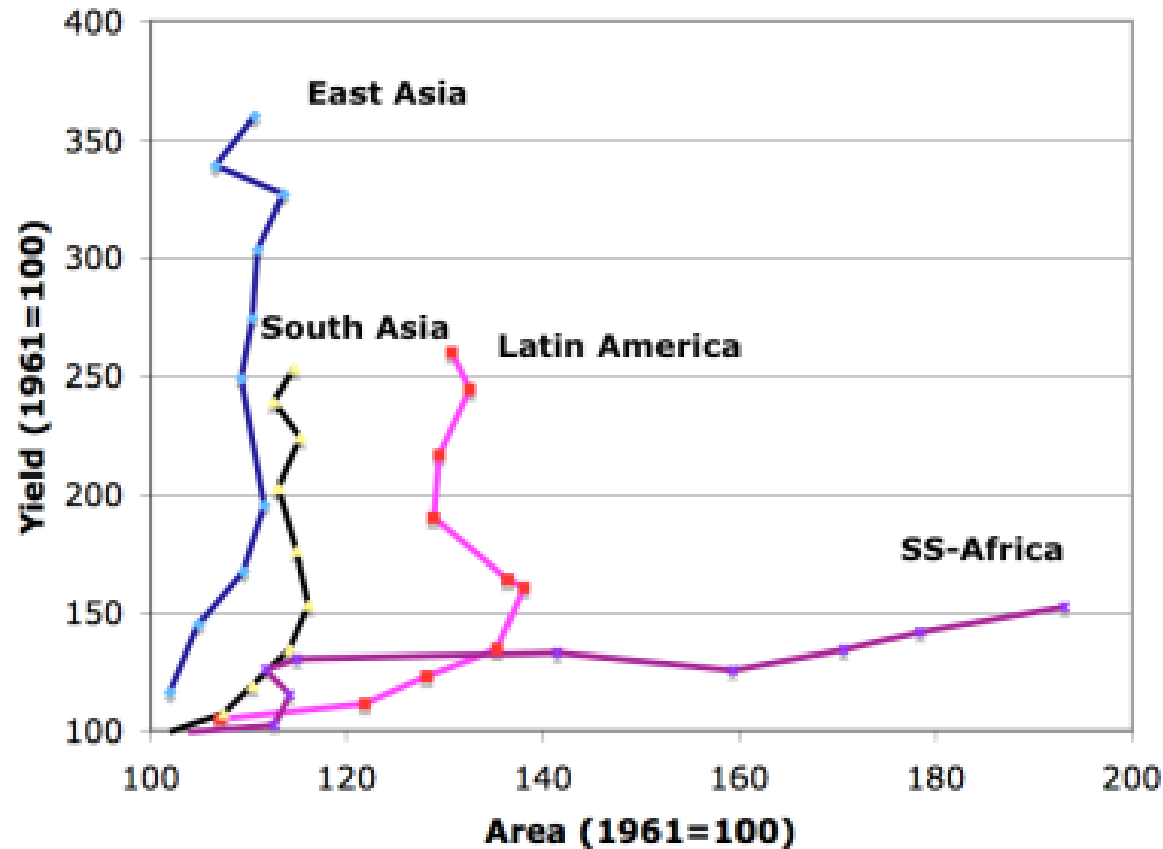
1. Motivation for the Project
2. Phase I: Africa Centers of Excellence in West and Central--
Effective
3. **Phase II: Africa Centers of Excellence in East and
South—In Preparation**

Motivation

- **Africa Rising**
- **But: low value addition and productivity**
- **Challenges in health, water, infrastructure, youth etc.**
- **NEED: African graduates who apply science and technology => need for more quality training capacity**

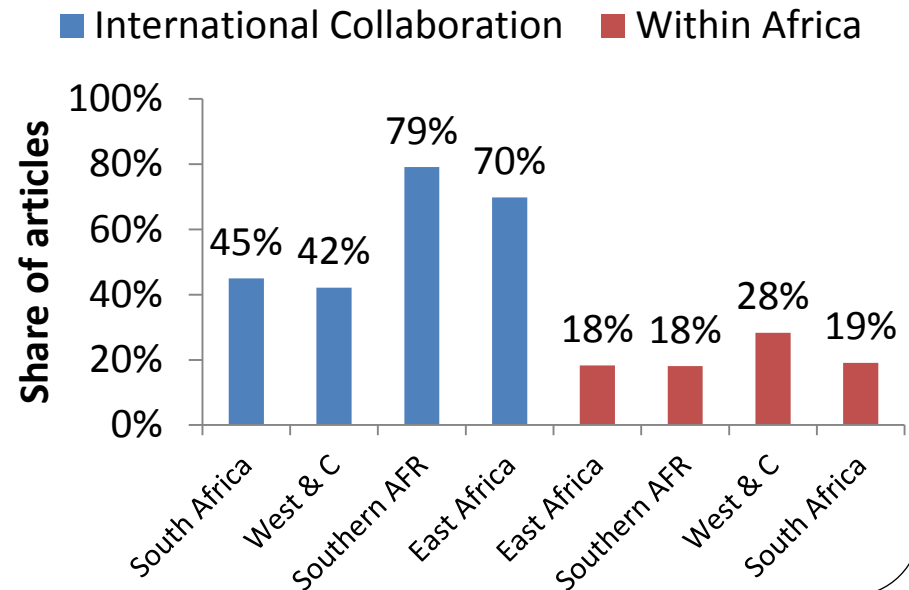
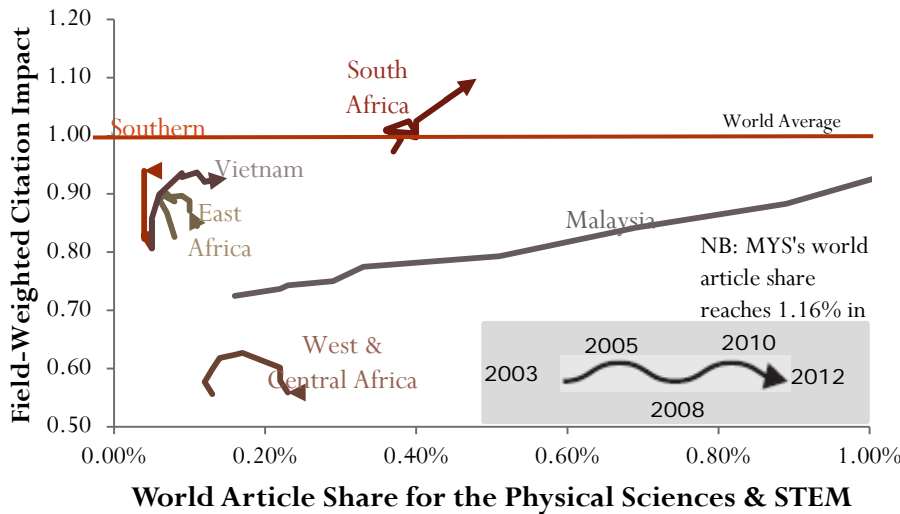
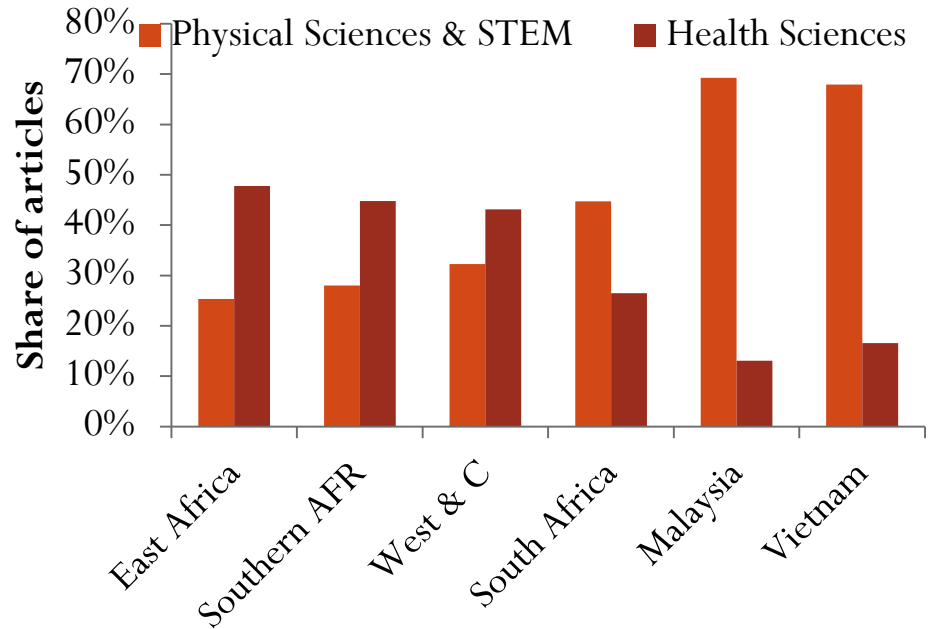
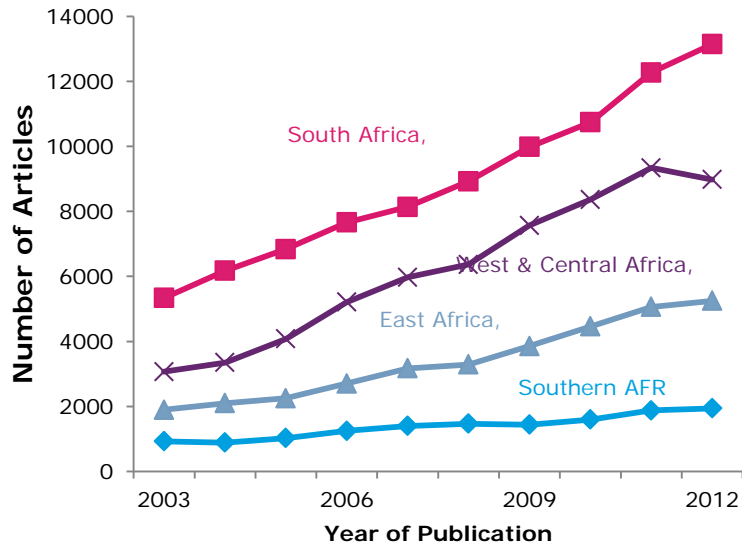


Productivity of African Agriculture



Source: De Janvry and Sadoulet, 2010 cited by FARA

Why Regional S&T in Africa?



ACE Phase 1 – Launched 2013

- 1. Western and Central Africa - \$150 million USD**
- 2. Project Effective**
- 3. Component 1: Strengthening Africa Centers of Excellence**
 - Benin, Burkina Faso, Cameroon, Ghana, Nigeria, Senegal, Togo
- 4. Component 2: Regional Facilitation and Support to Priority Countries**
 - The Gambia
- 5. Regional Facilitation: AAU**

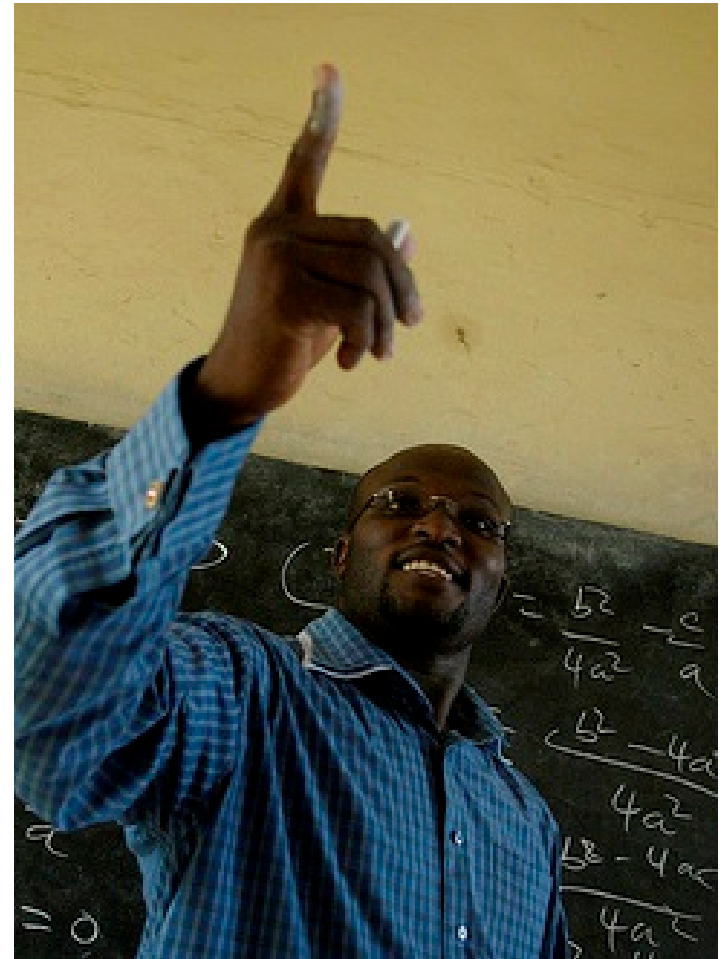
Selection: Competitive, Transparent, Open, Merit-Based and Equitable

Center Challenge / Development challenge	Institution	Discipline
Genomics of Infectious Diseases	Redeemers University, Ogun State, Nigeria	Health
PAN African Materials Institute	African University of Science and Technology, Abuja, Nigeria	STEM
Sciences et Technologies de l' Eau, l'Energie et l'Environnement	Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE)	Agriculture
Centre for Agricultural Development and Sustainable Environment	Federal University of Agriculture, Abeokuta, Nigeria	Agriculture
West African Center for Cell Biology of Infectious Pathogens	University of Ghana	Health
ACE in Mathematics, Informatics , and ICT,	University of Gaston Berger, St. Louis, Senegal	STEM
Neglected Tropical Diseases and Forensic Biotechnology	Ahmadu Bello University, Zaria, Nigeria	Health
Training plant breeders , seed scientists and seed technologists	University of Ghana, Legon, Ghana	Agriculture
Sciences Mathématiques et Applications	Université d'Abomey – Calavi (UAC), Bénin	STEM
Centre for Oil Field Chemicals	University of Port Harcourt, Nigeria	STEM
Water and Environmental Sanitation	Kwame Nkrumah University of Science and Technology, Kumasi, Ghana	STEM

Center Challenge / Development challenge	Institution	Discipline
ACE in Technologies de l'information et de la Communication	I 'Université de Yaoundé I, Cameroon	STEM
ACE in Phytomedicine Research and Development	University of Jos, Nigeria	Health
ACE in Maternal and Infant Health	Université Cheikh Anta Diop	Health
ACE in Reproductive Health and Innovation,	University of Benin, Nigeria	Health
ACE in the Poultry Sciences	Université de Lomé, Togo	Agriculture
ACE in Dryland Agriculture	Bayero University, Nigeria	Agriculture
ACE for Food Technology and Research,	Benue State University, Nigeria	Agriculture
ACE in Science, Technology and Knowledge	Obafemi Awolowo University, Nigeria	STEM

Success-factors

- University and faculty ownership and empowerment
- Academic and administrative support to the Centers
- Regional and International Partnerships
- Benefit from African Diaspora
- Multi-sectoral – link with economic sectors



3. ACE East and South – Preparation Participating Countries

Countries Participating

- Burundi
- Ethiopia
- Kenya
- Malawi
- Mozambique
- Rwanda
- Tanzania
- Uganda
- Zambia

CoE for Development Challenges in:

- Agriculture
- Energy
- Extractive Industries
- Construction and Infrastructure
- ICT
- Urban Development
- STEM Teaching and Management
- Statistics

Component 1: Strengthening Centers of Excellence

Scope:

- CoE on a specific development challenge
- In priority Areas
- 22 CoE grants @ US\$ 2-6 million
- IDA Credits to govt & grants to institutions
- Bottom-up approach – university led

Center Activities:

- **Outreach** and impact on society
- Build **education** capacity
- Build **research** capacity
- **Partnerships**
International and regional partnerships with academics and private industry
- Improve **governance** and management of the institution

Component 2: Enhance Regional Harmonization and Collaboration

Promotion of regional harmonization within higher education

- Quality assurance
- Scholarships
- Supporting student mobilities

Regional education support to countries with emerging higher education systems

Enhancement of regional capacity, evaluation and collaboration

Timeline

- Call for Proposals (July 2015)
- Submission of Proposals from Institutions (August 2015)
- Selection of ACEs (September 2015)
- World Bank Project Appraisal (November 2015)
- Submission of WB Board Package (March 2016)
- Project Effectiveness and Implementation (Post March 2016)

Thank You – Comments / questions?

We welcome opportunities for collaboration and partnerships

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More info on Africa Centers of Excellence on www.aau.org

WB support and analysis of Africa higher education: www.worldbank.org/afreducation

www.worldbank.org/africa/stemresearchreport

live.worldbank.org/stem-research-sub-saharan-africa

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