



The Role of Centres of Excellence Initiatives in Industrialization

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1. ARCHITECTURE OF ACE II

a. Overall PDO

To strengthen selected Eastern and Southern Africa higher education institutions to deliver *quality postgraduate education* and *build collaborative research capacity* in the regional priority areas in order to spur development in the region

b. ACEs address real Problems

- ▶ Selection was based on proposals whose focus was to address a specific development objective in one of the development areas in the region, namely:
 - ▶ Industry
 - ▶ Agriculture
 - ▶ Health
 - ▶ Education
 - ▶ STEM, ICT, and Applied statistics
 - ▶ Oil and Gas

C. Overall output of ACEs

- ▶ Development of high quality curricula
- ▶ Enrollment of more than 3,500 graduate students in the regional development priority areas
- ▶ more than 700 of the students will be PhDs
- ▶ more than 1,000 will be female students
- ▶ Publication of over 1,500 research articles in high impact journals
- ▶ Launch more than 300 collaborations with productive sector, research institutions and civil society to harness real development
- ▶ Generate close to US\$30 million in external revenue

d. A results-based project



Funds receivable depend on the degree of achievement of the set targets

2. KEY ROLE OF ACEs

- 1) Develop relevant curricula
- 2) Produce a pool of excellent African scientists, researchers, and human resource able to tackle African problems
- 3) Partnering with the productive sector – public, private, industry to spur development (research, innovation, value addition, relevant curricula, new business solutions, etc..)
- 4) Generation of external revenue to create formidable ACEs that will outlive the project period and continue to transform society
- 5) Women (higher education) empowerment

3. INITIATIVES OF SELECTED ACEs

Country

- ▶ **Ethiopia**
- ▶ **Kenya**
- ▶ **Malawi**
- ▶ **Mozambique**
- ▶ **Rwanda**
- ▶ **Tanzania**
- ▶ **Zambia**
- ▶ **Uganda**



ACE

- ▶ **Addis Ababa University**
African Railway Education and Research Institute
- ▶ **Jaramogi Oginga Odinga University of Science and Technology**
Centre of Excellence in Sustainable Use of Insects as Food and Feeds
- ▶ **Lilongwe University of Agriculture and Natural Resources**
African Centre of Excellence for Aquaculture and Fisheries Science
- ▶ **Universidade Eduardo Mondlane**
Centre of Studies in Oil and Gas Engineering and Technology
- ▶ **University of Rwanda – College of Education**
Centre of Excellence in Internet of Things
- ▶ **Nelson Mandela African Institution of Science and Technology**
Water Infrastructure and Sustainable Energy Centre for the Future
- ▶ **Copperbelt University**
Africa Centre of Excellence for Sustainable Mining
- ▶ **Uganda Martyrs University**
African Centre for Agro-Ecology and Livelihood Systems
- ▶ **Makerere University**
Centre of Materials, Product Development and Nanotechnology
Makerere University Centre for Crop Improvement
- ▶ **Mbarara University of Science and Technology**
Pharm-Biotechnology and Traditional Medicine Centre

Some Challenges

- ▶ Lukewarm response from sections of private sector/industry
- ▶ Limited number of regional students wanting to study outside their home countries
- ▶ Attracting of female regional students
- ▶ Lack policy frameworks/organs for regional accreditation of programmes to properly advance the ACE II goals

Concluding remarks

- a) ACEs are going to play a big role in advancing industrialization in Africa.
- b) Thanks to IUCEA for organizing regional fora for academia-productive sector.
- c) Special appreciation to our governments for supporting the ACE II project.
- d) To Leaders of ACEs, please everybody expects nothing but results.