

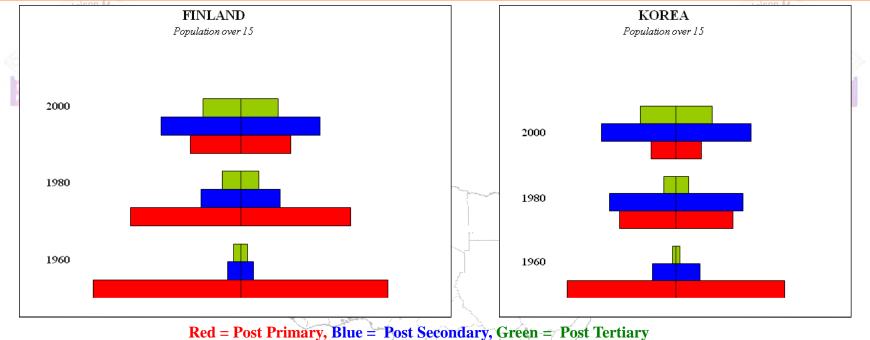
The Genesis of NM-AIST

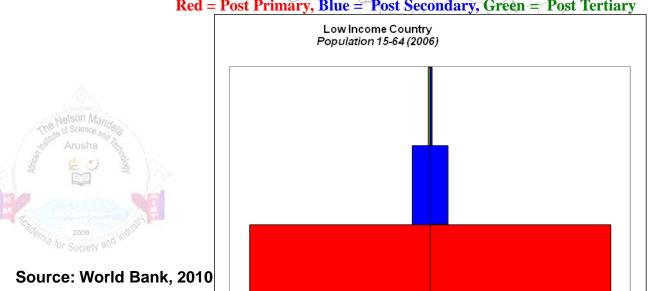
African leaders (incl. Nelson Mandela) discussion with Jim Wolfensohn (then WB President), February 2001.

Nelson Mandela greatly concerned by the knowledge gap (knowledge deficit) in SSA suggested to Jim that Institutions of S&T are perhaps Africa's single greatest need (the likes of IITs & IISs in India).

Frannie Leautier, then Vice President of WBI, was given the task of making this happen. Hippolyte Fofack, an African WBI official, was charged with developing the concept in collaboration with some Africans in the Diaspora.

Value addition to Human Capital – Finland & Korea, & LDC

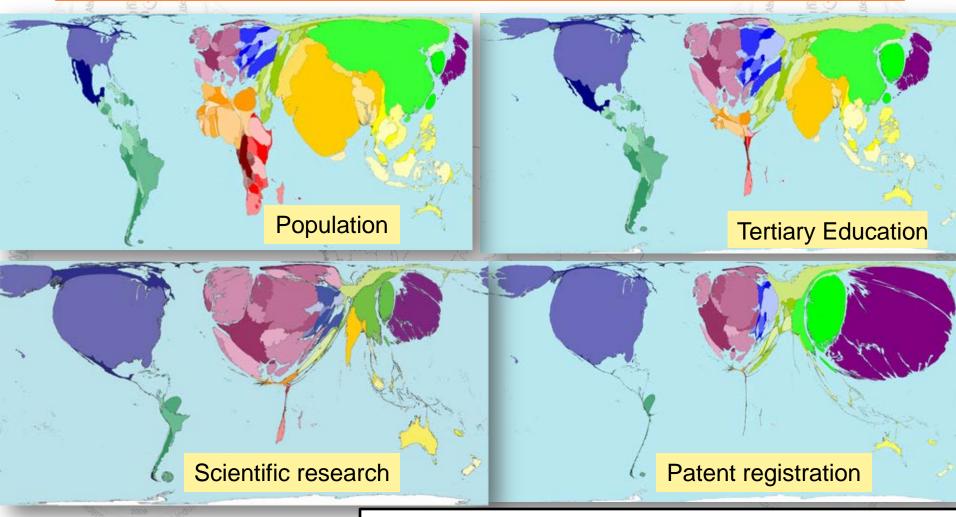






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Science & Technology Performance – a function of Value-addition to Human Capital



Source: www.worldmapper.org

"... in the final analysis it is basically the mystery and utilization of modern science and technology which distinguishes the South from the North". Abdus Salam African Nobel Laurete, 1979

Partnerships for Enhanced Engagement in Research (PEER) initiative is a most commendable because it will contribute to the development of SSA's STI capacity to:

- Improve its visibility on the global scientific research & patent registration scale;
- Effectively participate and harness the benefits of globalization & the knowledge economy;
- Harness the resources of nature it is endowed with for its sustainable socioeconomic development.
- => There is need for more PEER initiatives!!

To provide the best facilities for graduate and post-doc studies and research

Strong link with industry for technology transfer

Objectives of the AISTs

To bridge between research and industrial development

To catalyze the development of world class science and technology in Africa

Technology parks
with incubators
and innovation
centres for spinoffs

NM-AIST's Thrust and Focus

To stimulate, catalyze and promote intensification of agricultural production, value addition to natural products, and human & animal health.

To promote & harness linkage to society and the local industry, and scientific and technological response to local needs (thereby avoiding the traditional social divide between academia and industry).

To strive for a combination of strong local and global connections.

The Motto:

ACADEMIA FOR SOCIETY AND INDUSTRY



NM-AIST's Key Deliverables

Production of:

- Top-notch SET academics for other higher learning institutions;
- Competent researchers for R&D institutions;
- Techno-preneurs, industry captains, innovation managers for stimulating, catalyzing and promoting business start-ups and the growth of the local industry.

Establishment of a world-class environment for the translation of research results into tangible products, industrial and business solutions, and policy briefs to enable wealth creation and sustainable development.

Current Total Student Enrolment (as of April 2014)

Intake	Category by Gender							Overall Total		
Year		PhD	AT	Master's						
9	Male	Female	Total	Male	Female	Total	Male	Female	Total	
2011/12	22	5	26	5	2	7*	26	7	33	
2012/13	29	7	36	69	23	92	98	30	128	
2013/14	38 In Mandela ence and	13	51	48	25	73	86	38 Nelson Mande	124	
Total	89	25	114	122	50	172	210	75°	286	
M		(22%)		}	(29%)		1	(26%)		

*44 graduated on Dec 19, 2014

Affiliations of current NM-AIST Students

Student Affiliation	As % of the Total Enrolment				
	Master's	PhD	Average		
Academia @ Higher	28.8	72.5	44.2		
Learning Institutions					
R&D Institutions	5.0	9.2	6.4		
Industry	40.1	17.5	32.2		
Direct Entrants	26.1	0.8	122		
Total	100	100	100 P		

Current Affiliation of the 44 Master's	O/O ndustr
Graduates	
Proceeding with PhD studies	40.9
Employed by Higher Learning Institutions	36.4
Employed by R&D Institutions	13.6
Employed by the Industry	6.8
International NGOs	Nelson 2.3
Total	100



Key Outcomes of NM-AIST's Mission

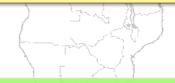


Value Addition
to Human
Capital thro'
Teaching &
Learning

Solutions to Societal
Needs and Problems
thro' Research &
Innovation, & Public
Service & Outreach

Business
spin-offs from
Research &
Innovation







The Motto:

ACADEMIA FOR SOCIETY AND INDUSTRY







Nelson Mandela AIST is in effect being developed into a Transformative University with four key features:

- Teaching & Learning
- Research & Innovation
- Technology Transfer
- Co-creation for sustainability (Societal transformation & Co-creation)

Research & Innovation (R&I) @ NM-AIST

The Research and Innovation (R&I)
Agenda of NM-AIST is driven by the
desire to respond to the needs &
problems of the society and the industry.
Emphasis is given to multi-disciplinarity.



Derive Needs & Problems from Communities & the Industry



NM-AIST Labs



Solutions Feed Back to Communities & the Industry

Staffing and Students



Pool of visiting faculty from collaborating institutions and the Diaspora

Students to be admitted competitively from the EA Region, and SSA generally.

Arusha – Opportunity & Strength for NM-AIST

Tanzania is one of the world's bio-diversity hot-spots

Arusha is HQ of EAC and well placed midway between Cairo and Cape Town

Fast growing city, stable and peaceful with excellent climate

Vibrant Tourist Industry within range, including the best 3 of the 7 Natural Wonders of Africa, namely; Serengeti, Kilimanjaro & Ngorongoro Crater

Easy International Access through KIA

Experience with hosting international programmes: ESAMI, ICTR, PAPU

- Nicknamed the Geneva of Africa by Bill Clinton
- NM-AIST & AKU promoting Arusha into an EA Higher Education Hub

The Biodiversity and Tourist Attraction around Arusha











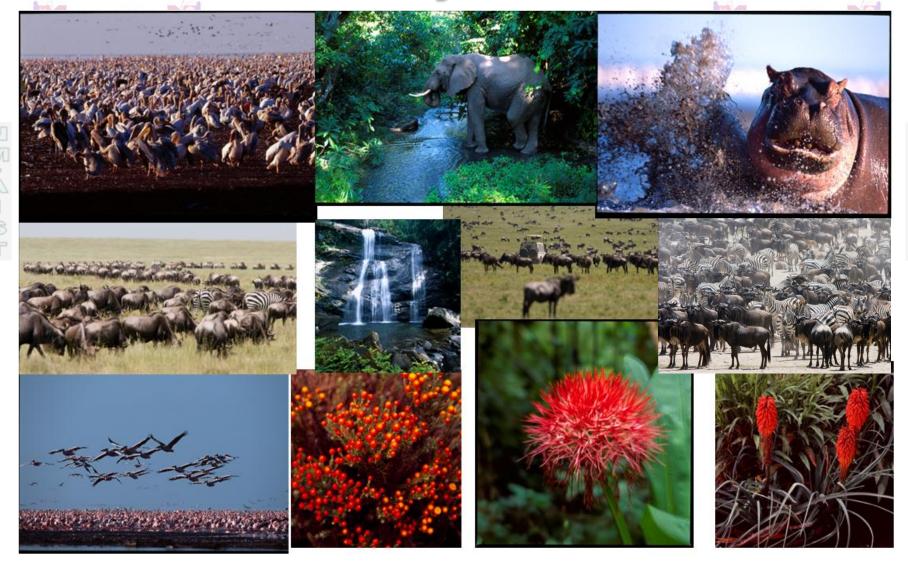




The Biodiversity and Vibrant Tourist Industry around Arusha



The Biodiversity and Vibrant Tourist Industry around Arusha











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