

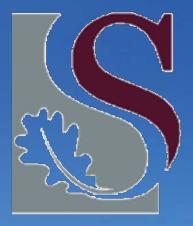
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The role of South African universities in the revitalisation of African higher education: Stellenbosch University's approach

Presentation to EED Africa Alumni Conference 27 January 2009

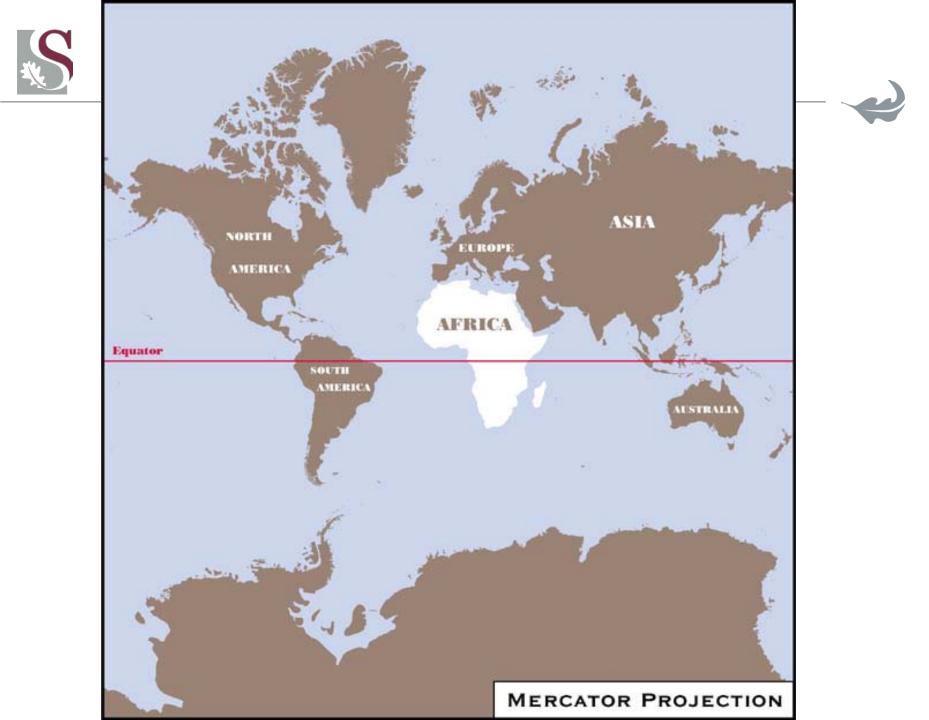
Dr Christoff Pauw Coordinator: Initiatives in the South Division of Research Development Stellenbosch University





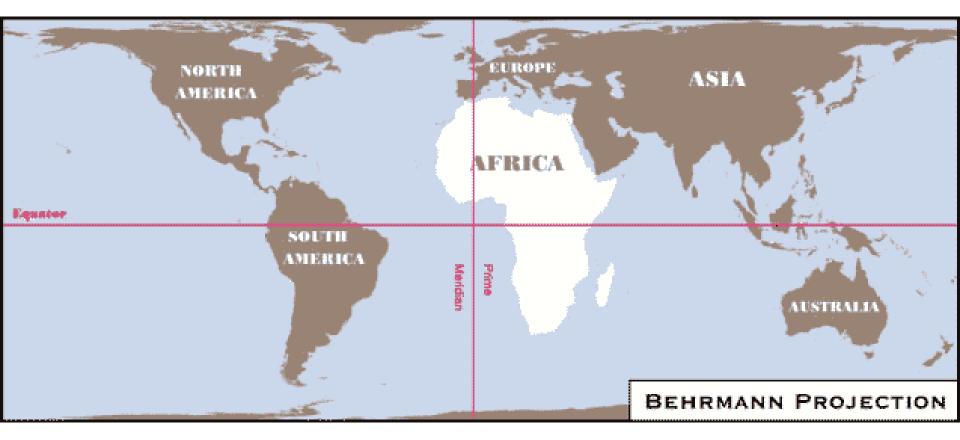
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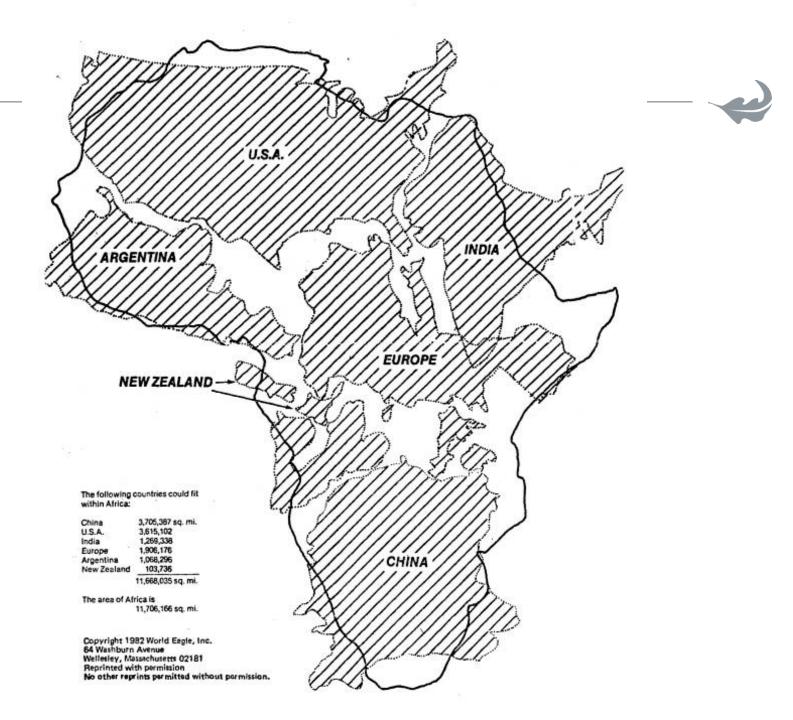




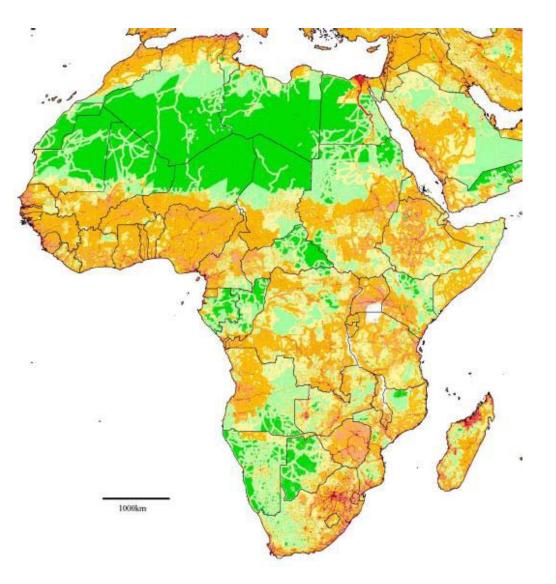




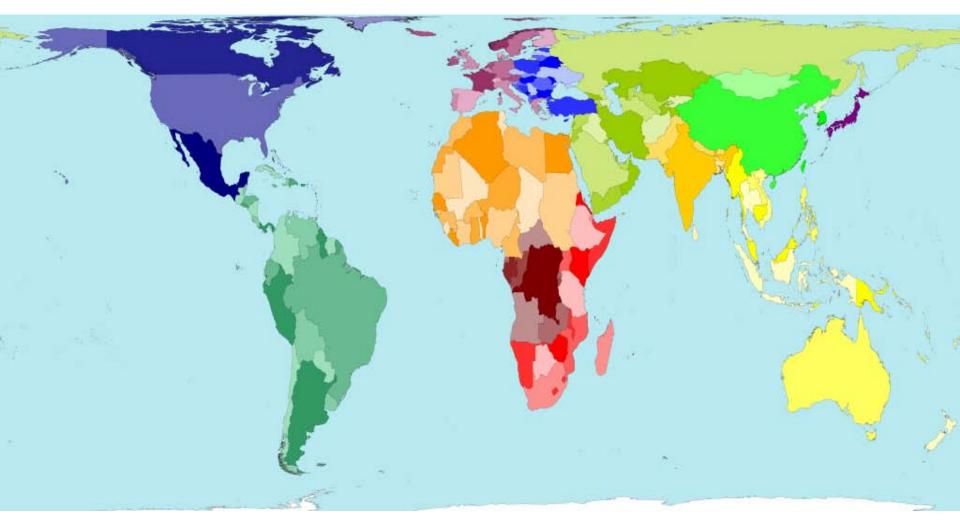




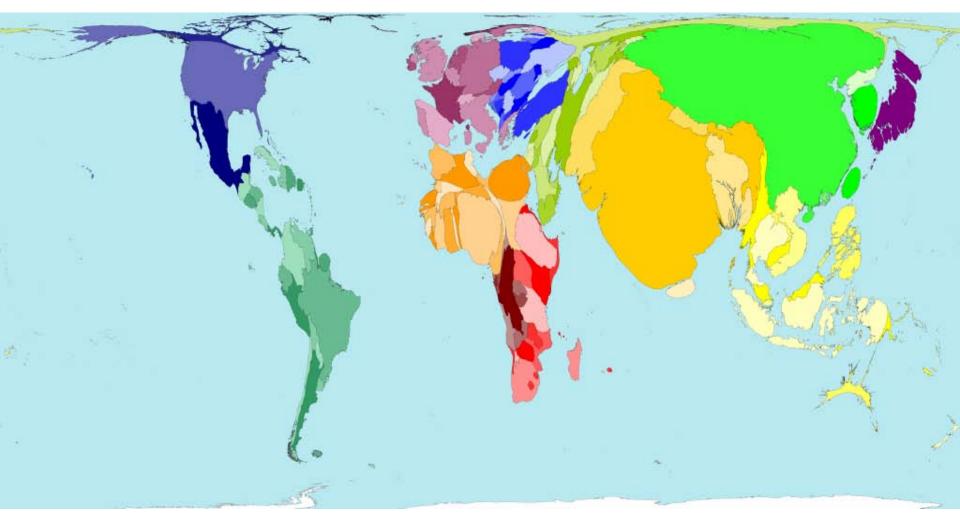




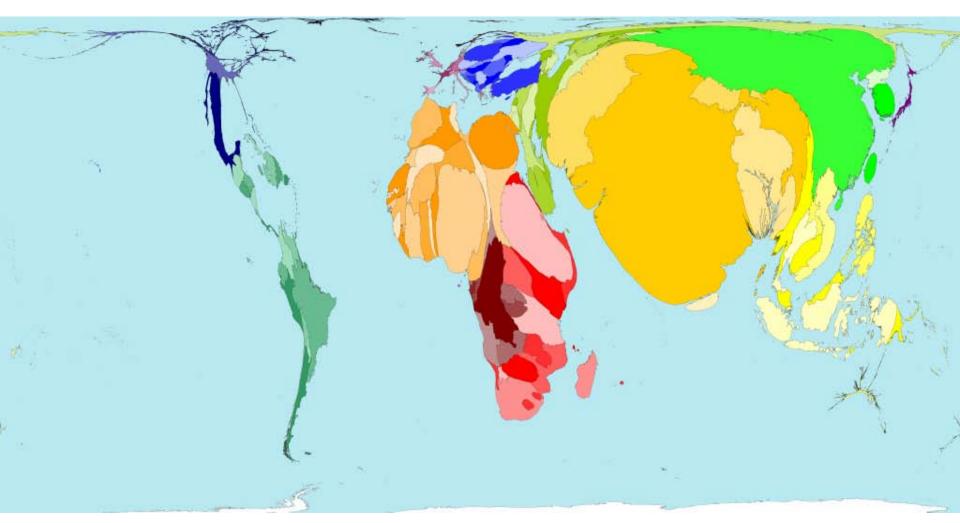




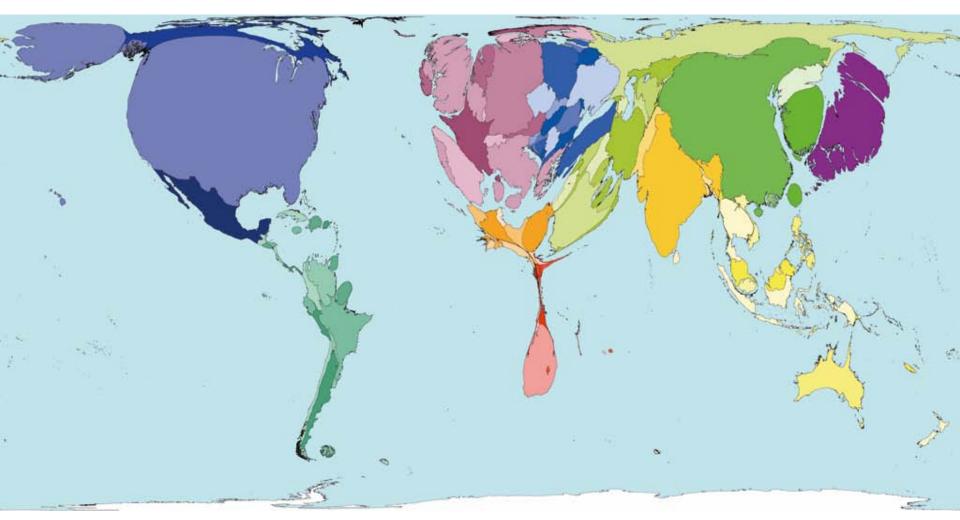




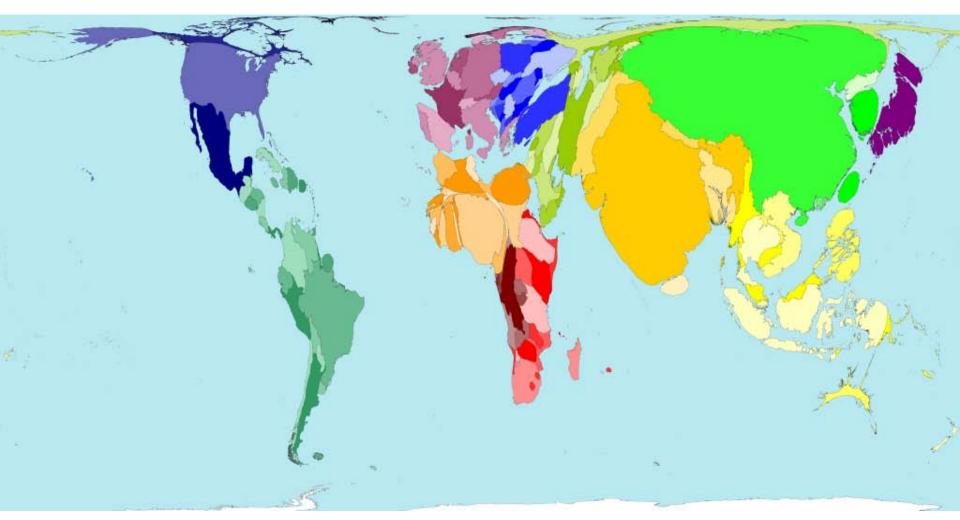




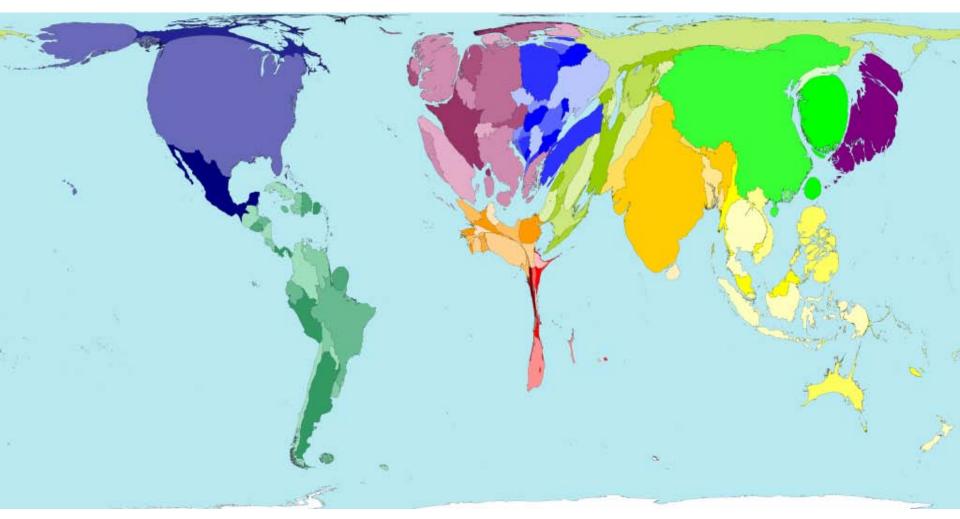




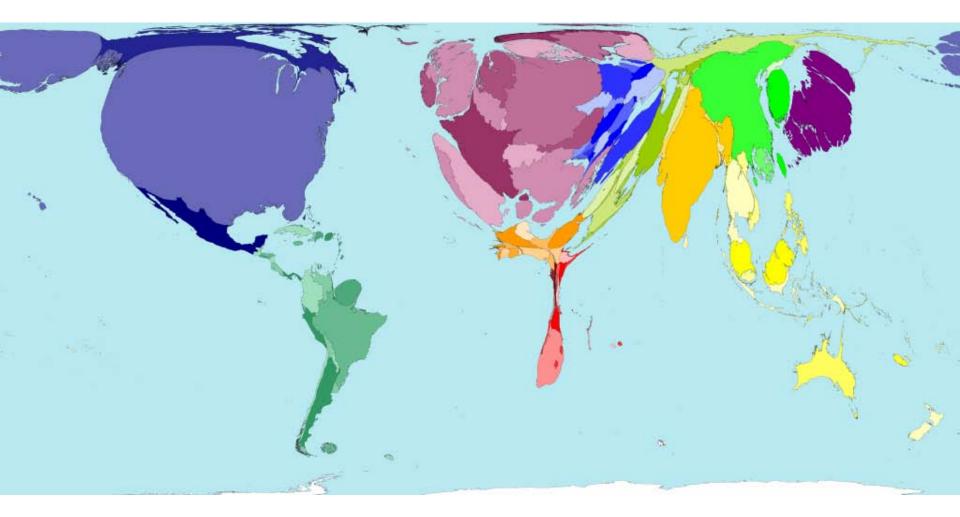




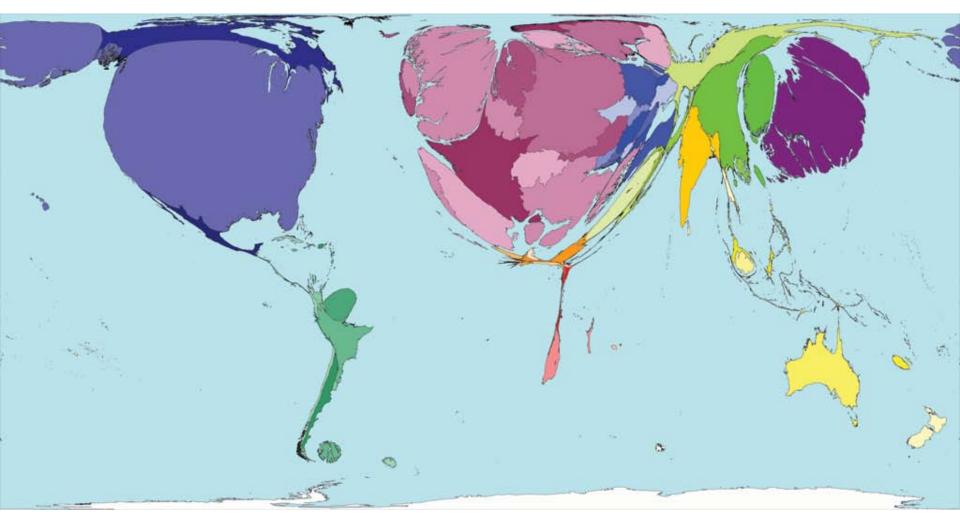




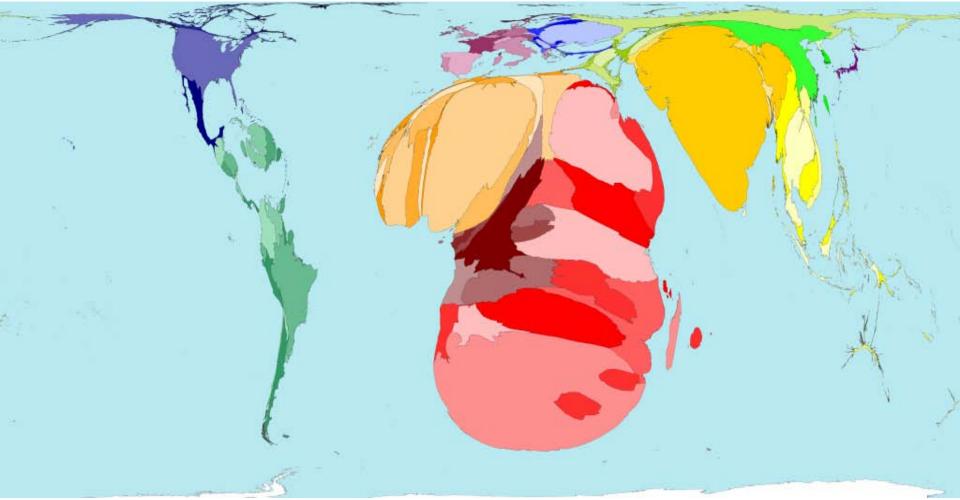












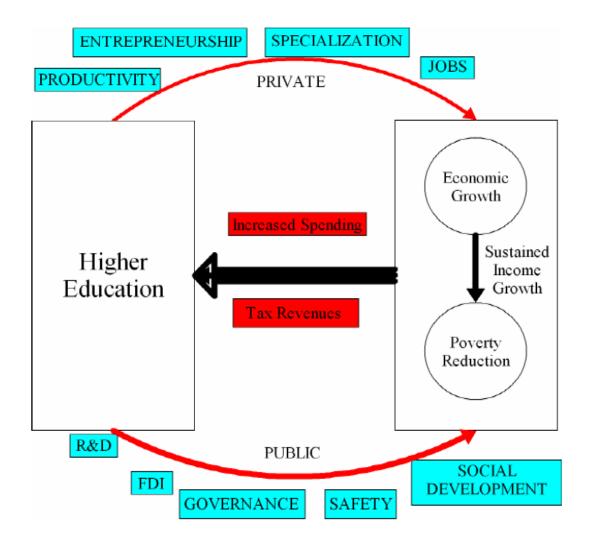


"The university must become a primary tool for Africa's development in the new century.

Universities can help **develop African expertise**; they can enhance the **analysis of African problems**; strengthen domestic **institutions**; serve as a model environment for the practice of **good governance, conflict resolution** and respect for **human rights**, and enable **African academics** to play an active part in the global community of scholars."

Kofi Annan, in D. Bloom, D. Canning & K. Chan. Higher Education and Economic Development in Africa. World Bank 2006





D. Bloom, D. Canning & K. Chan. Higher Education and Economic Development in Africa. World Bank 2006



- External forces:
 - Conflicting Cold War public systems: growth model vs centrally planned system
 - Africa failed to modernise on its own terms: dependency on foreign capital, aid, technology and expertise
- Internal factors:
 - Failures of post-colonial governance (militarisation)
 - Distanced from the poor; obstructed human development
- Requires a quantum-leap into the knowledge economy





- Political democracy and economic growth
- NEPAD: recognises Africa's problems and marginalisation in the global economy
- NEPAD's Threefold strategy:
 - Establish conditions for sustainable development
 - Invest in a number of **priority sectors**
 - Mobilise **resources**



- Greater emphasis on HE for development:
 - AU's Second Decade of Education for Africa (2006-2015) acknowledges key role of HE
 - ACU/AAU "Renewing the African University" provides substantial funding via the MRCI
 - NEPAD's Consolidated African Science and Technology Plan of Action highlights knowledge production for development
 - AAU appointed by AU to implement the Revitalization of Higher Education in Africa
- What drives renewal and revitalisation?
 - Inter-institutional collaboration within regional networks

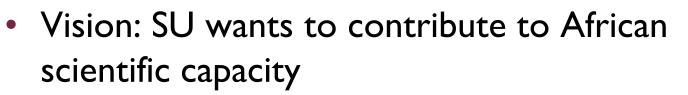




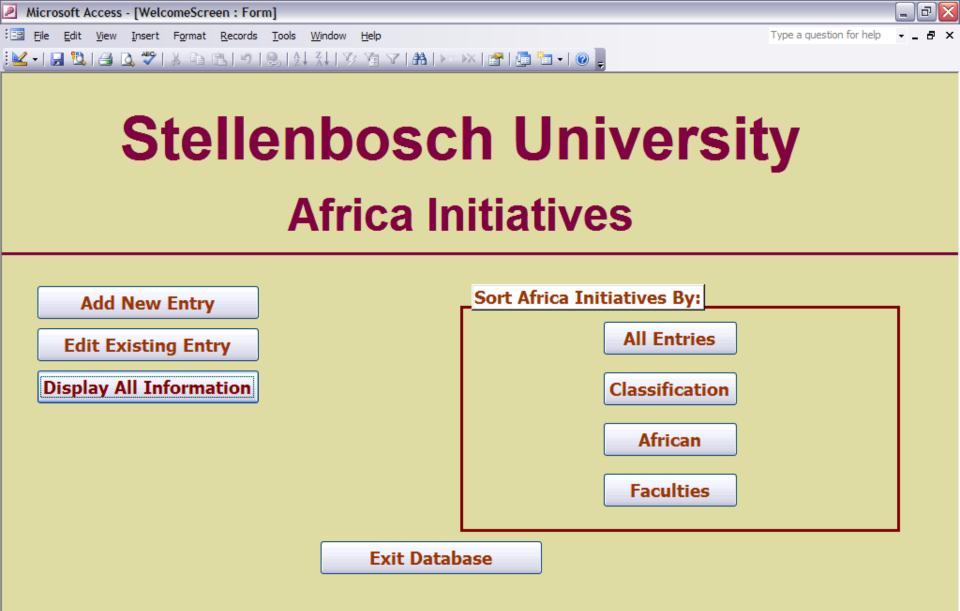
- A Pedagogy of Hope within the context of Africa (NEPAD/CPA)
 - Inculcate critical thinking
 - Engage in dialogue
 - Transform the community
- Integrated Strategic Plan (ISP):
 - I. Consolidating democracy and ensuring regional peace and security
 - 2. Eradicating endemic poverty
 - 3. Contributing to human dignity and health
 - 4. Ensuring environmental and resource sustainability
 - 5. Maintaining the competitiveness of the industry

Derived from the Millennium Development Goals of the UN





- Start with what we have, then identify where we must go
- Create an image/typology of SU's African involvement and from there develop an approach for Africa
- Database of Africa Initiatives
 - Records all joint research, teaching, development projects



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ProjectNumber	AS001	ResponsiblePerson	Mr Elton Jefthas				
PartnerType	Stellenbosch	ContactPerson	Dr Emmy Reinten				
Faculty	AgriSciences	EmailAddress	emmy@sun.ac.za				
Unit	Department of Agronomy	TelephoneNumber	(021) 808 2922				
Relation	SUEntity	FaxNumber					
AnchorPartner		FurtherInformation					
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Website	http://academic.sun.ac.za/agron/						
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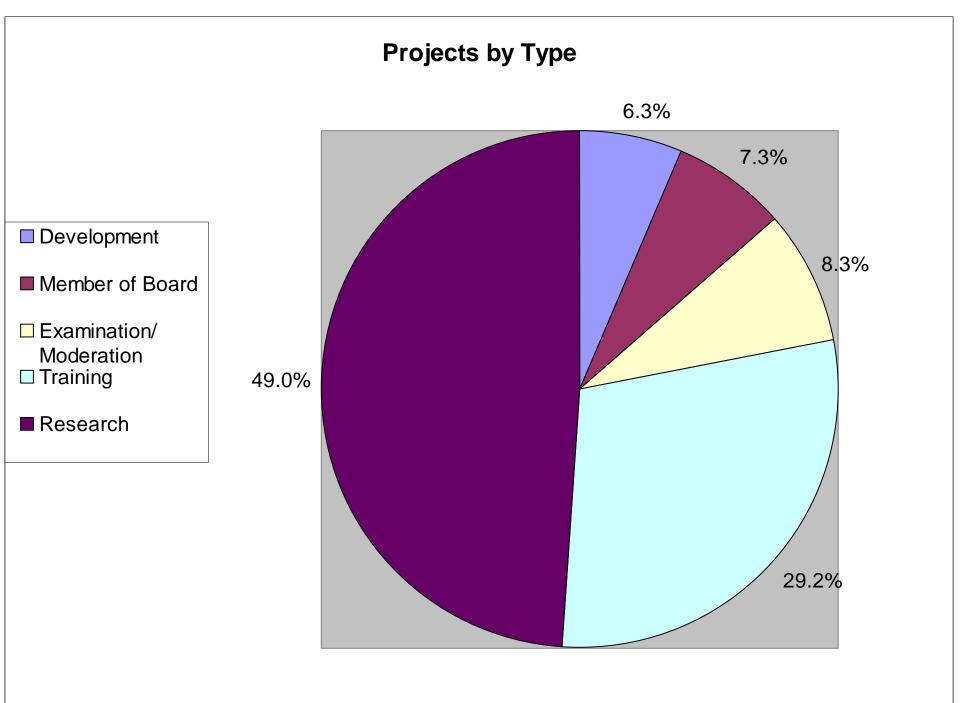
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Website: http://www.asnapp.org/							
Stellenbosch Partner(s) Africa Partner(s) Other Partner(s) Project Data Funding							
Proj	ject Type	Development	Secondary Cla	ssification	Food scienc	ces and technology	
Proje	ect Scope	Level 1					
	Task	To help create and develop successful African businesses in the natural products sector by providing income, employment and development through environmentally and socially conscious sustainable	Keywords Timeframe:	natural plant pr agribusiness, M phytomedicina	/Ipuntu herbal		
Method And	l Sources	Project indicator based (technology transfer & market linkage establishment with entrepreneurs and community development). Collaboration between project partners and local communities aim to:	Start Da EndDa		01/01/1999		
	Output	Various in different countries, e.g. in SA: Wupperthal, Haarlem & Ericaville indigenous tea production – from organic production; post-harvest and marketing. Greenhouse technology implementation through training courses and technology transfer. See website	Activity	Active	9		
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Website: http://www.asnapp.org/						
Stellenbosch Partner(s) Africa Partner(s) Other Partner(s) Project Data Funding						
ProjectNumber	AS001	ResponsiblePerson	Dr Davies M Lungu			
PartnerType	Africa	ContactPerson	Dr Davies M Lungu			
Institution	University of Zambia	EmailAddress	dlunqu@aqric.unza.zm			
City	Lusaka		+260 1 295 655			
Country	Zambia	TelephoneNumber	+260 1 235 655			
AnchorPartner		FaxNumber				
Unit	Crop Science	FurtherInformation				
Interaction						
	http://www.unza.zm/schools/agric/					
Website	mp.//www.unza.zm/schools/agnc/					
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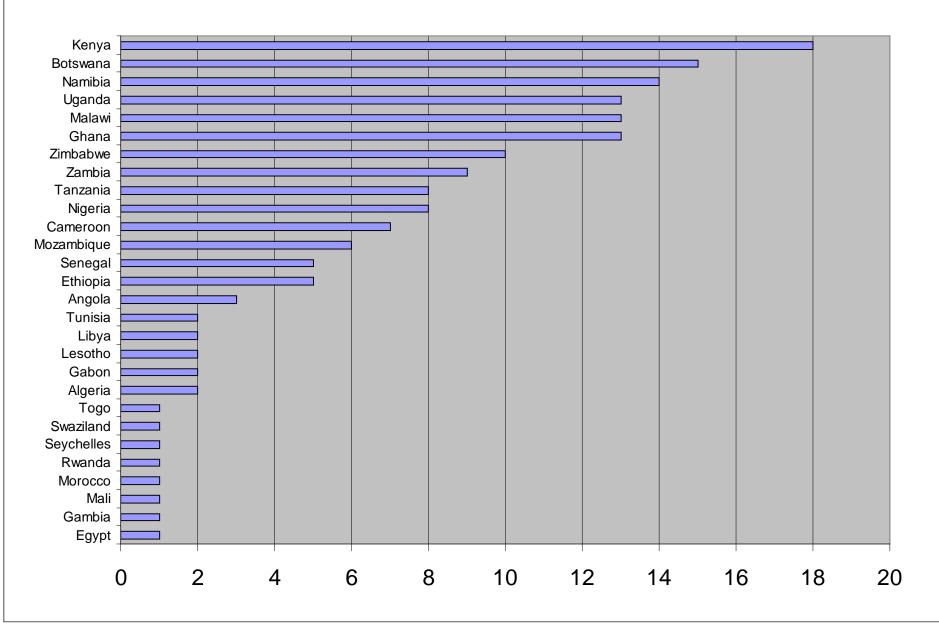




- Projects recorded (Jan 2009): 135
 - Updated continuously
 - More than 50% research collaboration and 30% teaching
 - Human sciences 40%, Health 30%, Science 30%
- Total number of partners involved: 450
 - Stellenbosch partners: 130
 - African partners: 180 (from 30 countries)
 - Other South African partners: 58
 - "Northern" partners (N-S-S): 80
- Graphical representation of projects and partners follows:



African Partners by Country





- Reporting on Africa initiatives
- Mailing lists and contacts for calls/conferences
- Ranking departments for their African involvement
- Identifying possible partners:
 - Four institutional MoU's signed
 - Numerous new project partners identified
- Comparing SS with SSN projects, including funding partners
- Other partnership datasets



- Individual initiatives
 - Joint research and training projects (recorded in database)
 - Contracts to host programmes (IMF, INWENT, etc)
- Focused bilateral partnerships
 - MoU's with Dar es Salaam, Makerere, Botswana, Namibia (incl. exchange agreements)
 - Agreements proposed with Addis Ababa, KNUST
 - In future: Malawi, Zimbabwe, Zambia, Mozambique
 - AIM: be recognised as a reliable partner on the continent
- Multilateral networks
 - "Hub & spoke"/Centres of Excellence model?
 - Examples: ASNAPP, AIMS, NetACT, PANGeA?
 - Increasing focus on joint accreditation
- Databank (overview, resources, policies) of HE collaboration in Africa

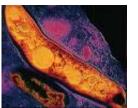


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- Replace dependence with joint ownership
 - Involve all partners from first phase of project design
 - Include technology transfer/ policy implementation/ dissemination as key aspect of the project
 - Share administrative and financial duties (at least some investment from each partner)
- Brain drain?
 - Collaborative research and graduate training
 - More government spending in African S&T
- Africa's research niche
 - Take advantage of our geo-political location

S The Laboratory in our backyard

- Rocks & minerals
- Plants & animals
- Oceans & lakes
- Diverse Communities
- - Languages
- - Economies
- Epidemiology



• East-West and North-South axis

















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Thank you





- From 665 in 1997 to 2458 in 2007
 - 10.5% of total
- Overview:
 - SADC: 38%
 - Non-SADC: 15.5%
 - Africa total: 53.5%
 - Outside Africa: 46.5%



Cluster 1: Biodiversity, Biotechnology and Indigenous Knowledge

- I. Conservation and Sustainable Use of Biodiversity
- 2. Safe Development and Application of Biotechnology
- 3. Securing and Using Africa's Indigenous Knowledge Base

Cluster 2: Energy, Water and Desertification

- 4. Building a Sustainable Energy Base
- 5. Securing and Sustaining Water
- 6. Combating Drought and Desertification

Cluster 3: Material Sciences, Manufacturing, Laser and Post-Harvest Technologies

- 7. Building Africa's Capacity for Material Sciences
- 8. Building engineering capacity for Manufacturing
- 9. Strengthening the African Laser Centre (ALC)
- 10. Technologies to Reduce Post harvest Food Loss

Cluster 4: Information and Communication Technologies and Space Science and Technologies

- II. Information and Communication Technologies
- 12. Establishing the African Institute of Space Science

Additional Programme:

13. Mathematical Sciences