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South-South Research Collaboration

The case of Stellenbosch University

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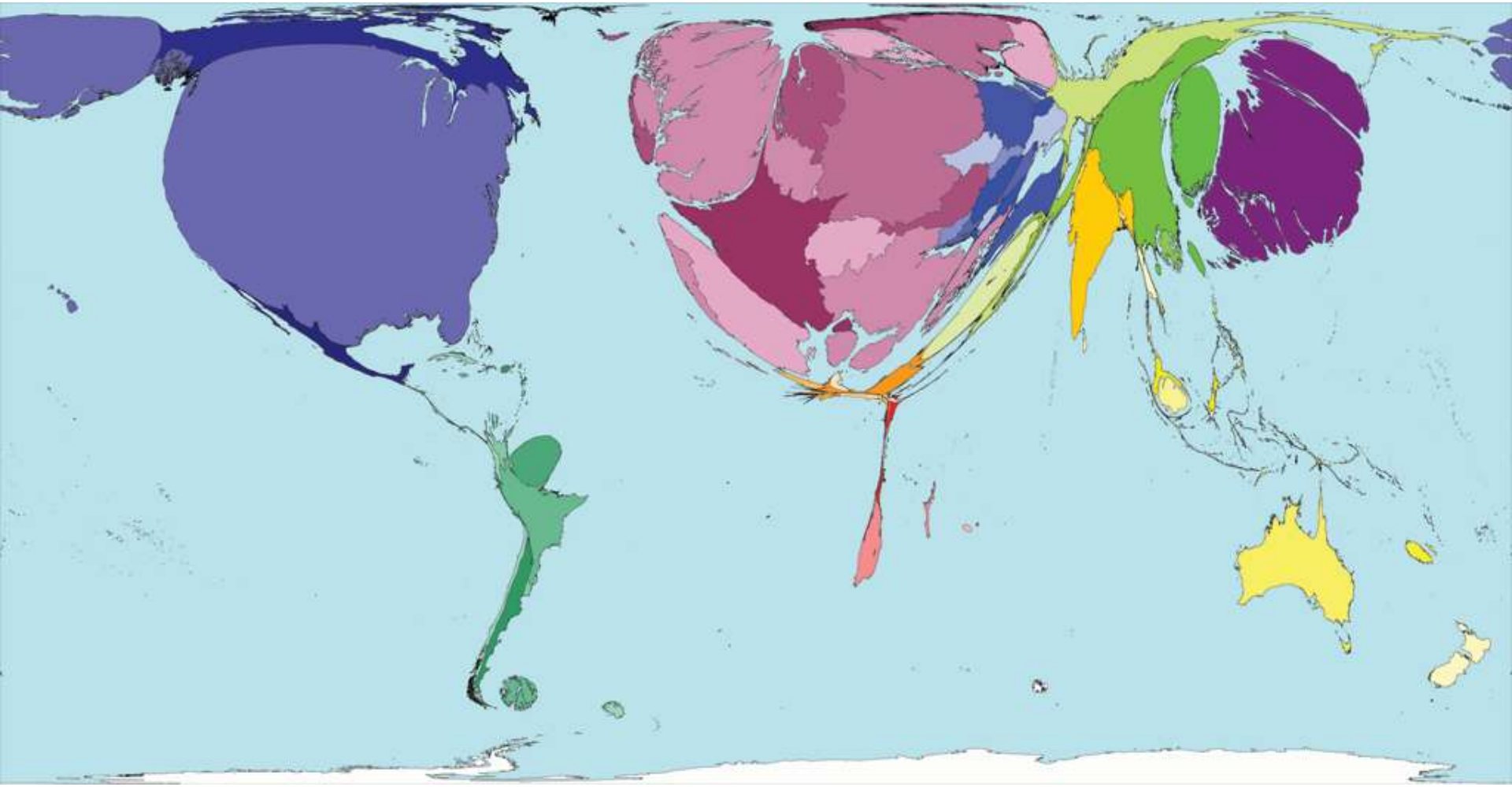
Problem Statement

- Low global presence of African research output
  - Sub-Saharan Africa contributes 0.7% to world science output (French Académie des Sciences 2006; *Worldmapper*)
  - Not just a challenge of raising the quality and quantity of scientific output in Africa, but also raising the visibility of research in Africa

> *"Today, 20% of [African] researchers who are still active carry out most of their research outside the walls of academia and traditional research bodies, usually for international organisations, foreign intergovernmental bodies and NGOs."*

Schmaus, W. 'A New Way of Thinking about Social Location in Science', *Science & Education* (2008) 17:1127–1137.

Worldmapper: Science Research



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Hypothesis

- The marginality of science in the South accounts for its dwindling share of global research output

  - Marginalisation:

    "to be less well-integrated into the social network of scientists, to have fewer colleagues to whom to turn for feedback, or to have one's potential contributions ignored"

  - Networks & collaboration:

    "important not only for receiving criticism of one's work, but also ... for having access to the most recent, unpublished work of other scientists in one's field" [and for gaining access to resources/funding]

Schmaus (2008); Wray, K.B. 'The epistemic significance of collaborative research', *Philosophy of Science* (2002) 69: 150-168.

Two challenges for research management

- Track and support South-South(-North) research collaboration
  - Example: **Collaborations database**

- Track & raise visibility of South-South(-North) research output
  - Example: **Bibliometric analysis**

➢ A need to better map science in Africa

Menu - SUCdb

Home | Create | External Data | Database Tools

Stellenbosch University Collaborations Database

- Projects
- Partners
- Projects and Partners Lists
- Projects Lists
- Reports
- Maintenance

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Navigation Pane

Form View | Num Lock

Projects - SUCdb

Home | Create | External Data | Database Tools

Projects

FIND PROJECT NAME: Research & Innovation Management Improvement for Africa and th

FIND PROJECT NR:

Full Title: Research & Innovation Management Improvement for Africa and the Caribbean

Print view: Projects and Partners

Project Number: AA216 **RIMS nr:** **Acronym:** RIMI4AC **Start Date:** 2010/01/01 **End Date:** 2012/12/31

Project Website:

Research Area: **Secondary:**

Authorized SU nr: 11060980 - Theron Therina dr - tthero **SU staff Name:** Theron Therina dr - ttheron@sun.a

Project Type: Capacity development **Budgeted Amount:** R 32,350,000.00

Keywords: research management, innnovation, capacity building, publication

Year	Scope	Activity	ID
2009	Level 2 (3 points)	Active	216

Task: The Improvement of Research & Innovation management capacity in Africa and the Caribbean for the successful stimulation and dissemination of research results, thereby improving quality research outputs by researchers in the six thematic areas of the ACP programme and improving dialogue between researchers/research institutions and policy makers and business partners, for the improved translation of research outputs into policies, practices and products. Specifically this will be achieved by strengthening the capacity of research institutions in the regions to sustainability and effectively manage research and innovation activities.

Method and Sources: a. Building research management support structures in institutions;
b. Establishing Regional Research & Innovation management Associations, which will lead to the development of a strongly ACP-led RIMA Network of Associations for developing a platform and infrastructure that can in the medium and long-term goal greatly contribute to improve professionalism in managing research, knowledge and skills transfer;
c. Providing central services to research managers (and in some cases researchers) via a website

Output: Expected outcomes:
- Improved Strategic approach at institutional level to research planning;
- Improved capacity of research and innovation administrators / managers
- Knowledge of funding opportunities & management to conduct research, leading to increased competitiveness of target universities

Partner (double click to view details)	NEW	Contract	Relation	Anchor	Partnr Type	Country	Responsible Person
University of Stellenbosch - Division of Rese			SU Entity	0	Stellenbosch	South Africa	Theron Therina - tther
University of Dar es Salaam - - Director of			SU Partner	0	Africa	Tanzania	Yahya-Othman Saida -
University of Ibadan - - Department of Gec			SU Partner	0	Africa	Nigeria	Olayinka Idowu - aiola
University of Buea - - Department of Rese			SU Partner	0	Africa	Cameroon	Tendo Josepha Foba -
University of Botswana - - Research & De			SU Partner	0	Africa	Botswana	Jackson-Malete Jose -
Southern African Research and Innovation M			SU Partner	1	South Africa	South Africa	Kriel Corline - sarima@
ResearchAfrica - - - - Cape Town			SU Partner	0	South Africa	South Africa	McCann Caite - cm@
University of Technology Jamaica - - Rese			SU Partner	0	External	Jamaica	Oliver Gossett - golive
Association of Commowealth Universities -			SU Partner	0	External	United Kingdo	Kirkland John - j.kirkla
Research & Innovation Management Service			SU Partner	0	External	Belgium	Heemskerk Frank - fra
ACP Secretariat - - ACP-Science & Techn			Sponsor	0	External	Belgium	

Record: 1 of 11 | No Filter | Search

Other Contacts | Funding

Sponsor Amount	Start Date
	End

Record: 1 of 1 | No Filter

Record: 204 of 208 | No Filter | Search

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Projects

Full Title	**Aquaculture CRSP Training and Information Exchange on Cichlids**
Project Number	A5098 **RIMS nr**
Website	http://pdacrsp.oregonstate.edu/
SU Entity / Owner	AgriSciences
Primary Research Area	Fisheries
Secondary Research Area	Animal production
Type	Training
StartDate	01/10/2007
EndDate	31/03/2008
Budgeted Amount	£0.00

Responsible person at SU department

SU staff	dr Lourens de Wet
SUnumber	
Telephone	+27 21 808 2454
Email	lfdw@sun.ac.za

Year 2009 **Activity** Active **Scope** Level 2 **Points** 3

Keywords Aquaculture

Task Training and Information Exchange on Cichlids among Host Country Partners Phase II Implementation Plan (2006 - 2008): The Host Country exchange program was implemented as part of the Aquaculture CRSP (Collaborative Research and Support Programme, managed by director Dr. Hillary Egna, from Oregon State University) in 2005 to enhance the understanding of tried-and-true practices for overcoming local production constraints in tilapia and native cichlid aquaculture.

Method and Sources Short-term field trainings and workshops are held in participating countries that has significantly enhanced cross-site connectivity as researchers from all countries shared best practices from Aquaculture CRSP and other research. The proposed visits of Host Country Prinipal Investigators (HCPIs) to other sites will take place between October 2007 and March 2008.

Output To begin the mentored training, one HCPI from each Phase I country will be invited to participate in the first Phase II trip, to South Africa and Ghana, and present results on cichlid research at the AASA (Aquaculture Association of Southern Africa) conference in South Africa. The programme aims to help implement technologies observed during the field trainings in other countries to determine their effectiveness at home. This information exchange will involve a greater emphasis on the value chain for tilapia growers in poorer countries.

Partners

Institution	University of Stellenbosch
Unit	Division of Aquaculture
	AgriSciences
City	Stellenbosch
Country	South Africa
PartnerType	Stellenbosch
Responsible Person	Lourens de Wet (+27 21 808 2454 - lfdw@sun.ac.za)
Further Information	Dr Khalid Salie at the Division of Aquaculture is also a HCPI

Anchor Partner ☐ **SADC** ☑ **SSA** ☑ **LDC** ☐

Institution	Moi University
Unit	
	Department of Fisheries and Aquatic Sciences - School of Natural Resource Management
City	Eldoret
Country	Kenya
PartnerType	Africa
Responsible Person	Charles Ngugi (+254 53 2063206 - cngugi@africaonline.co.ke)
Further Information	

Anchor Partner ☐ **SADC** ☐ **SSA** ☑ **LDC** ☐

Institution	Kwame Nkrumah University of Science and Technology (KNUST)
Unit	
	Department of Fisheries and Watershed Management - Faculty of Renewable Natural Resources
City	Kumasi
Country	Ghana
PartnerType	Africa
Responsible Person	Stephen Amisah (+233 51 60375 - steveamisah1@yahoo.co.uk)
Further Information	

Anchor Partner ☐ **SADC** ☐ **SSA** ☑ **LDC** ☐

Institution	Oregon State University
Unit	
	AquaFish CRSP
City	Corvallis OR
Country	United States of America
PartnerType	External
Responsible Person	(-)
Further Information	Also Dr. James R. Bowman. Other HPCI's are located in Brazil, Vietnam, Thailand, Philippines, Mexico, China and Honduras.

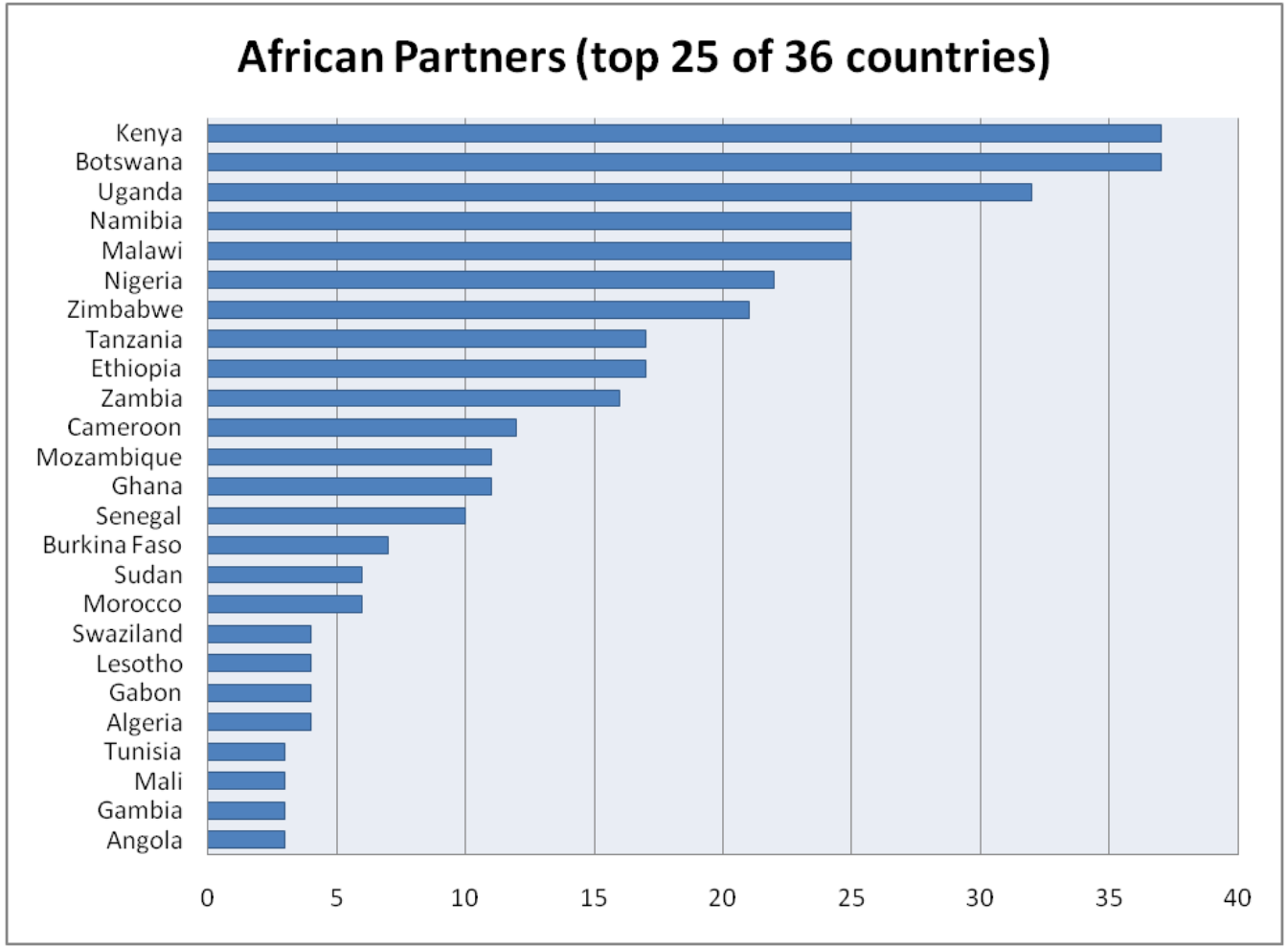
Anchor Partner ☑ **SADC** ☐ **SSA** ☐ **LDC** ☐

Key data (Jan 2010)

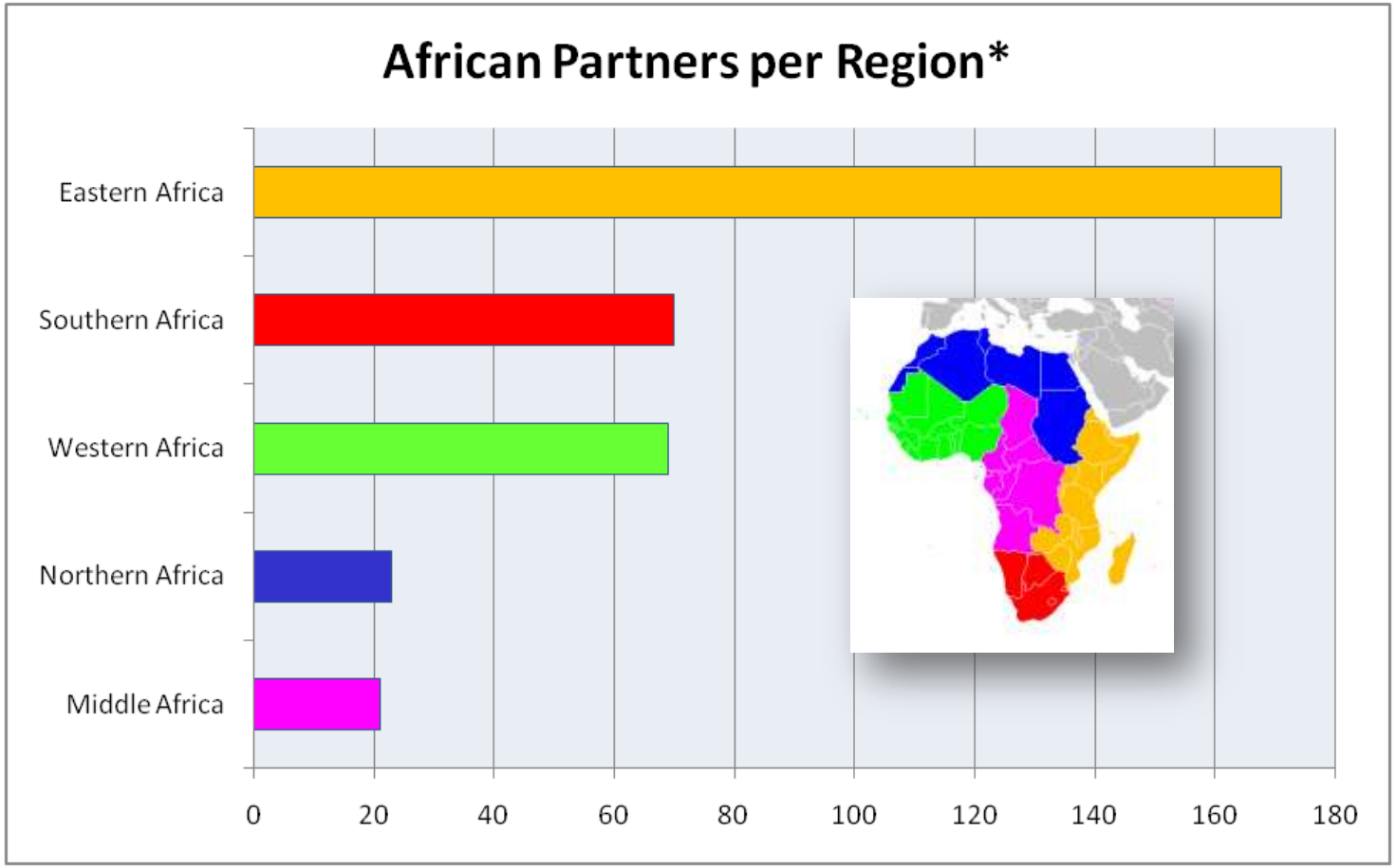
- Projects recorded
  - Current and planned projects/partnerships: 131
    (includes 21 in planning phase)
  - Successfully completed projects since 2006: 52
  - Inactive/suspended projects since 2006: 18
  - **Total projects recorded: 201**
  - Number of research projects: 104 (52%)

- Number of African partners involved: 328
  (from 36 countries)

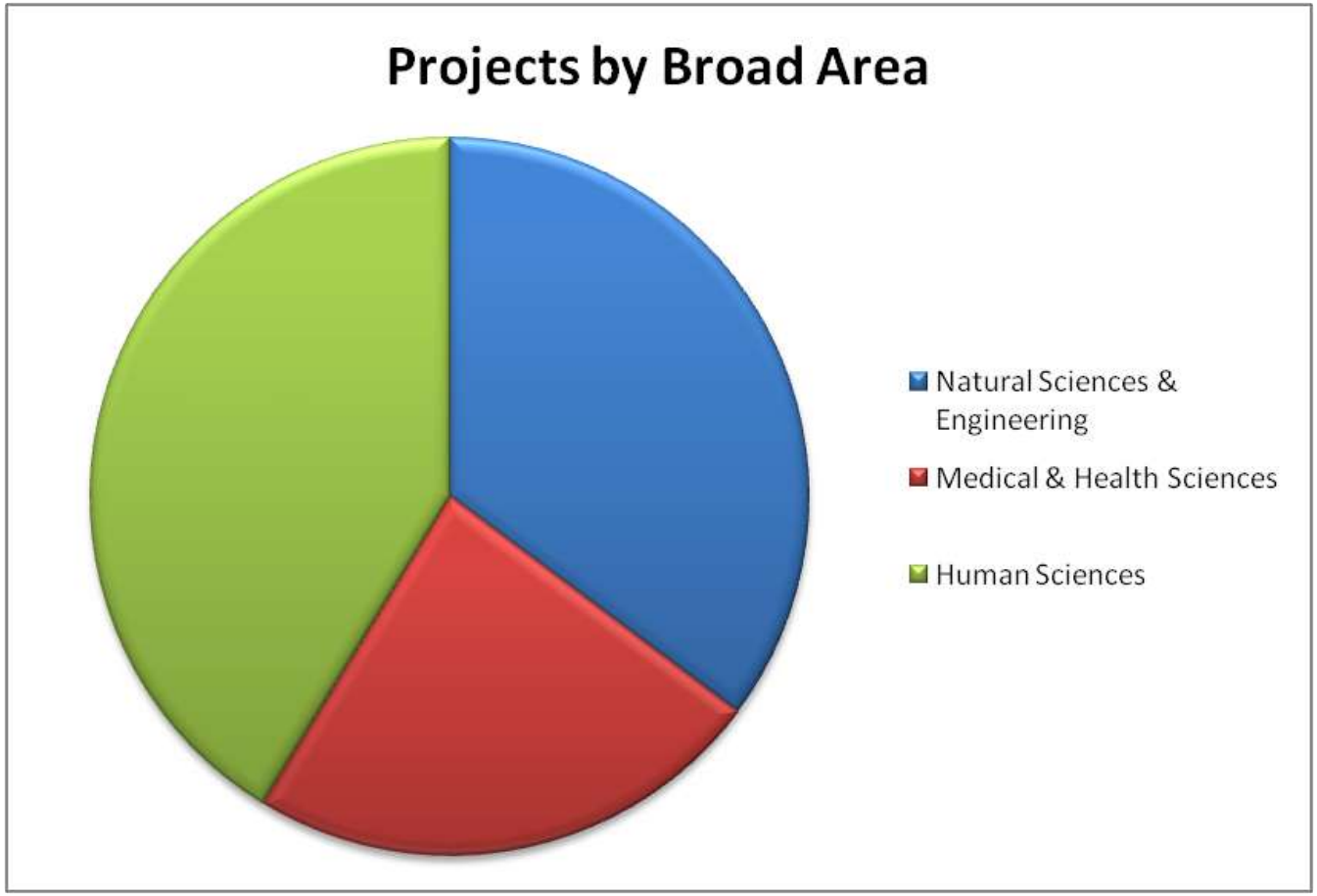
Geographical distribution of partners



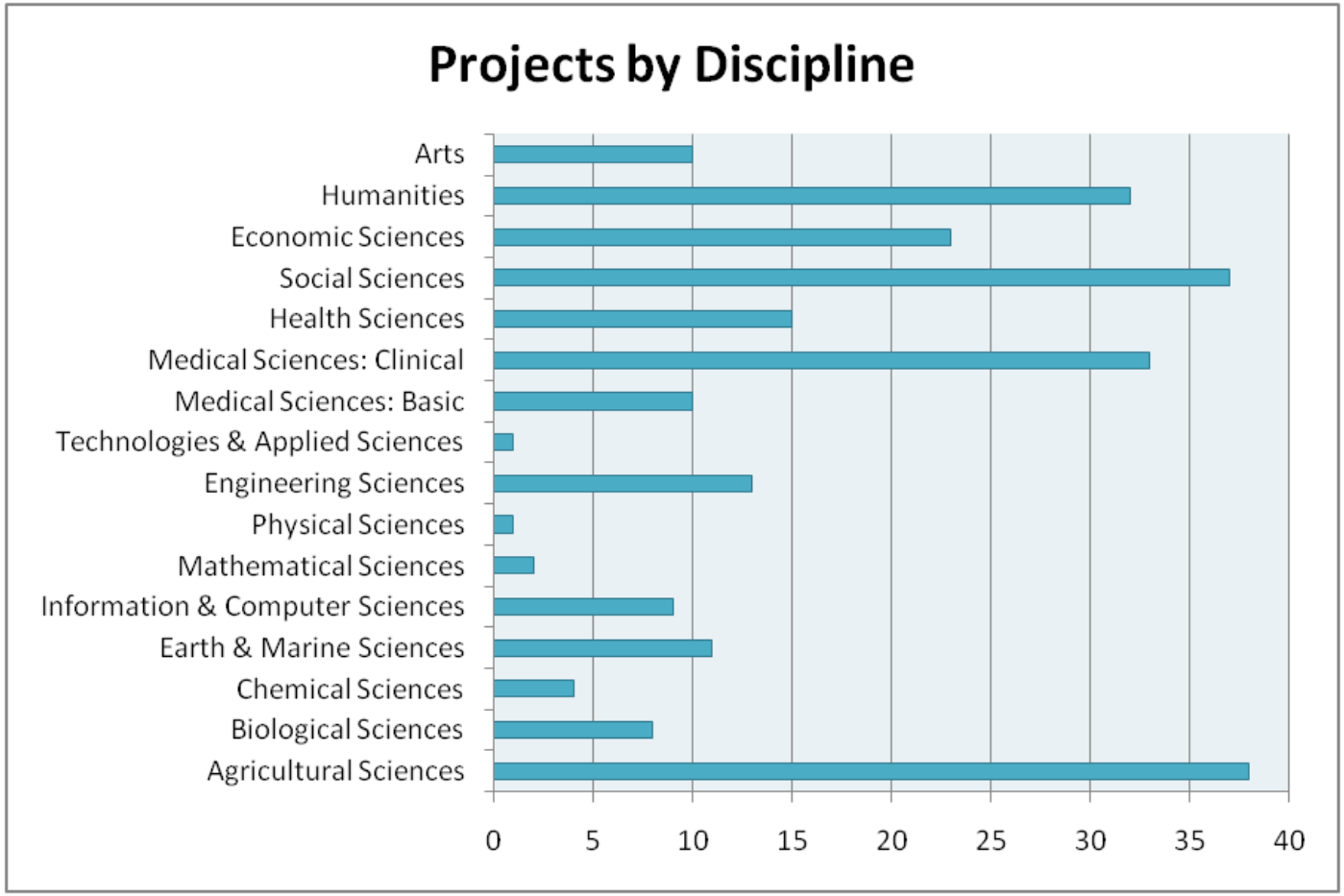
Mainly in Eastern Africa



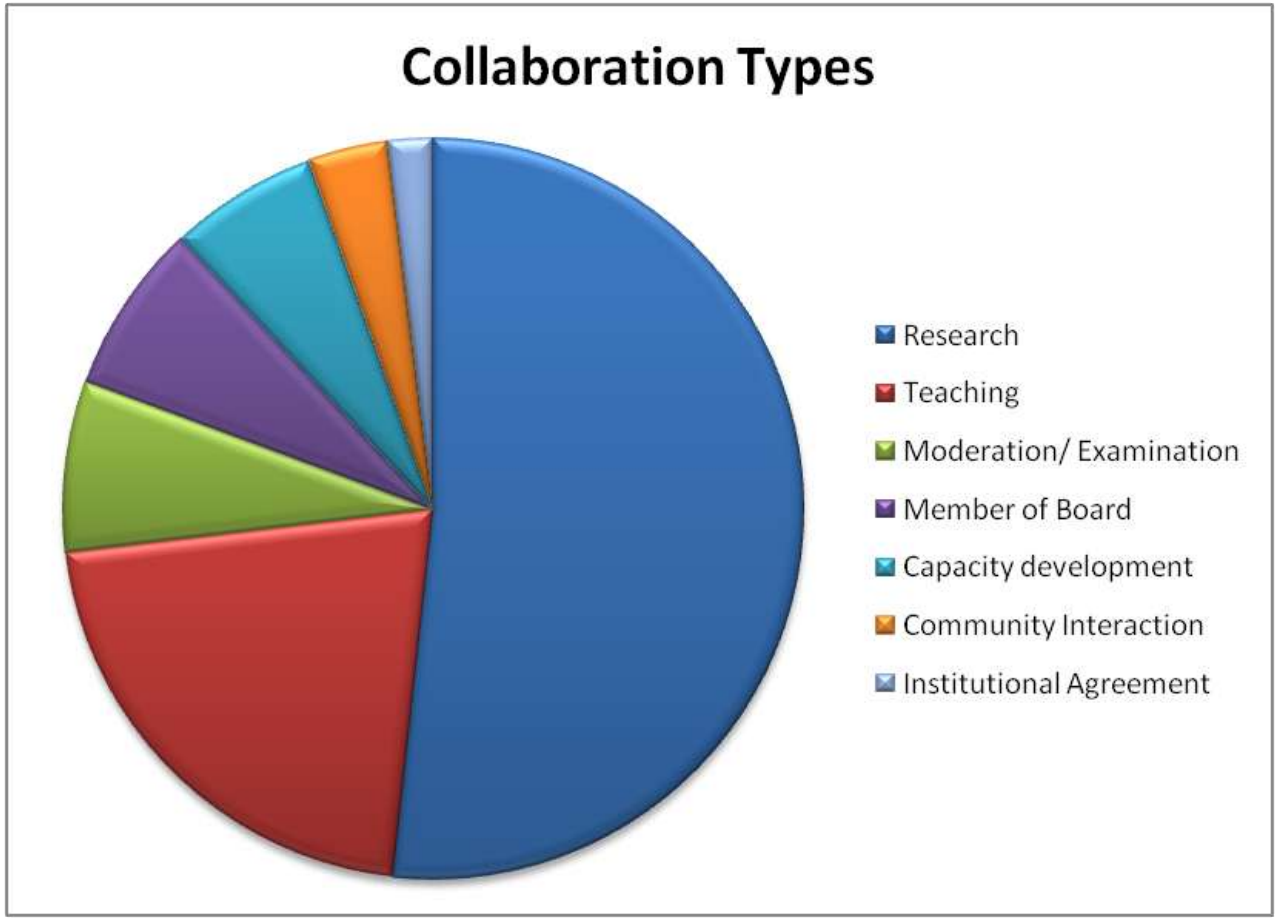
Thematic distribution of programmes



Disciplinary distribution



Emphasis on research collaboration



Bibliometric Analysis of Research Output

1. Data sources

- ISI's Web of Science
- Elsevier's Scopus
- Africa Science Trackers' Database

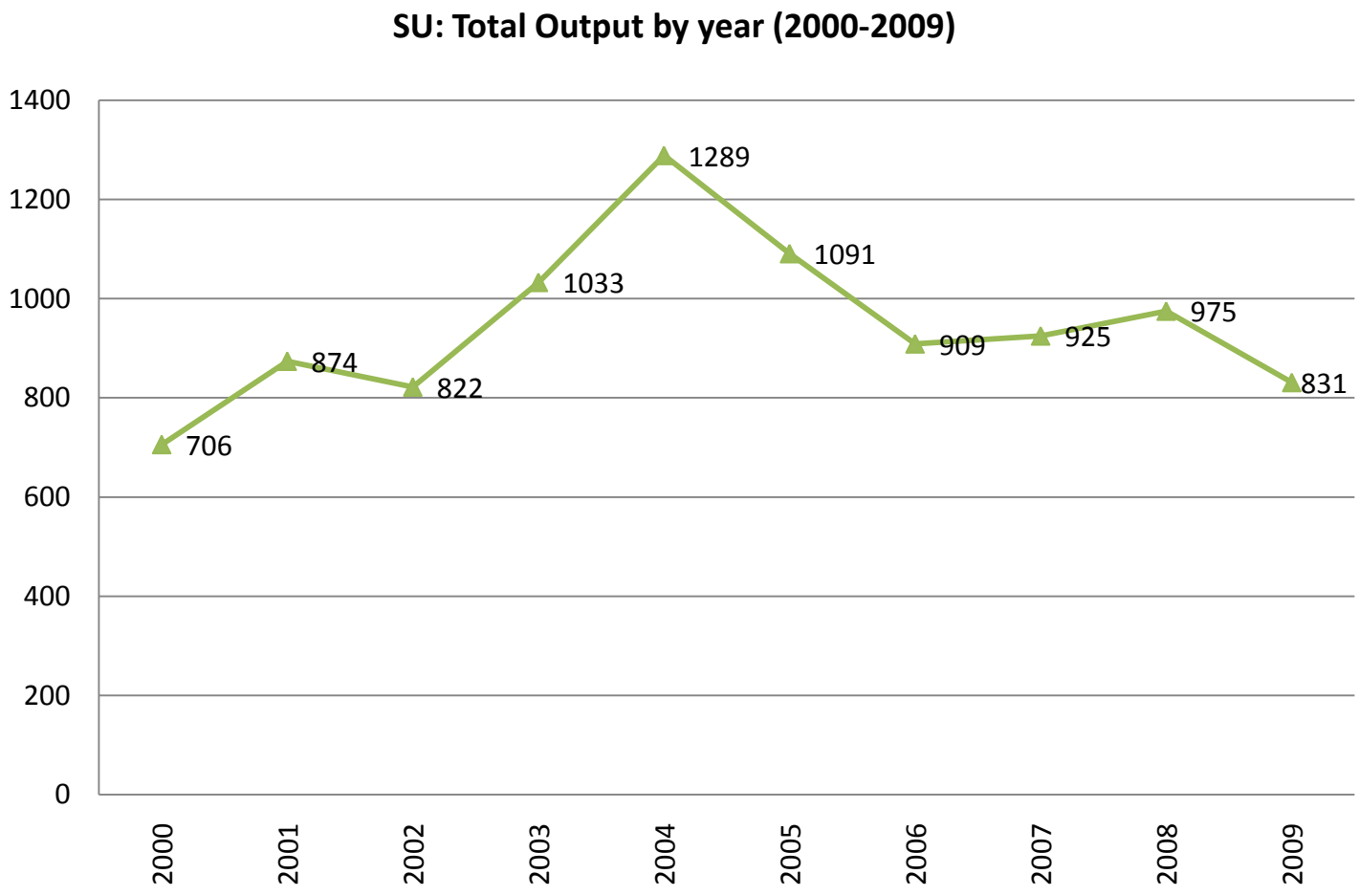
Africa Science Trackers

linking you to science on the continent

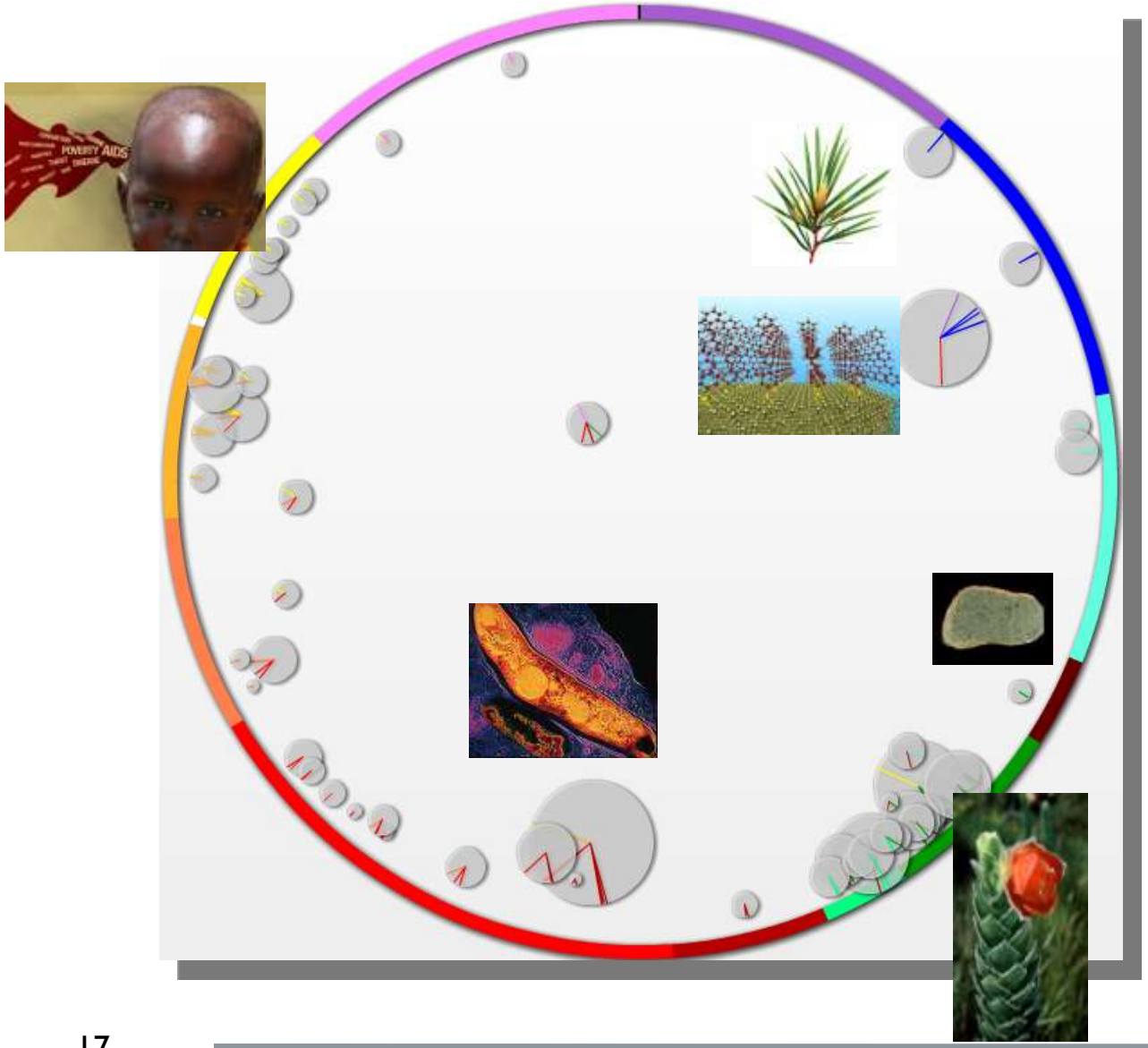
2. Methodology

- Bibliomatric analyses of research output by Stellenbosch University
- 2000-2009

Bibliometric Analysis



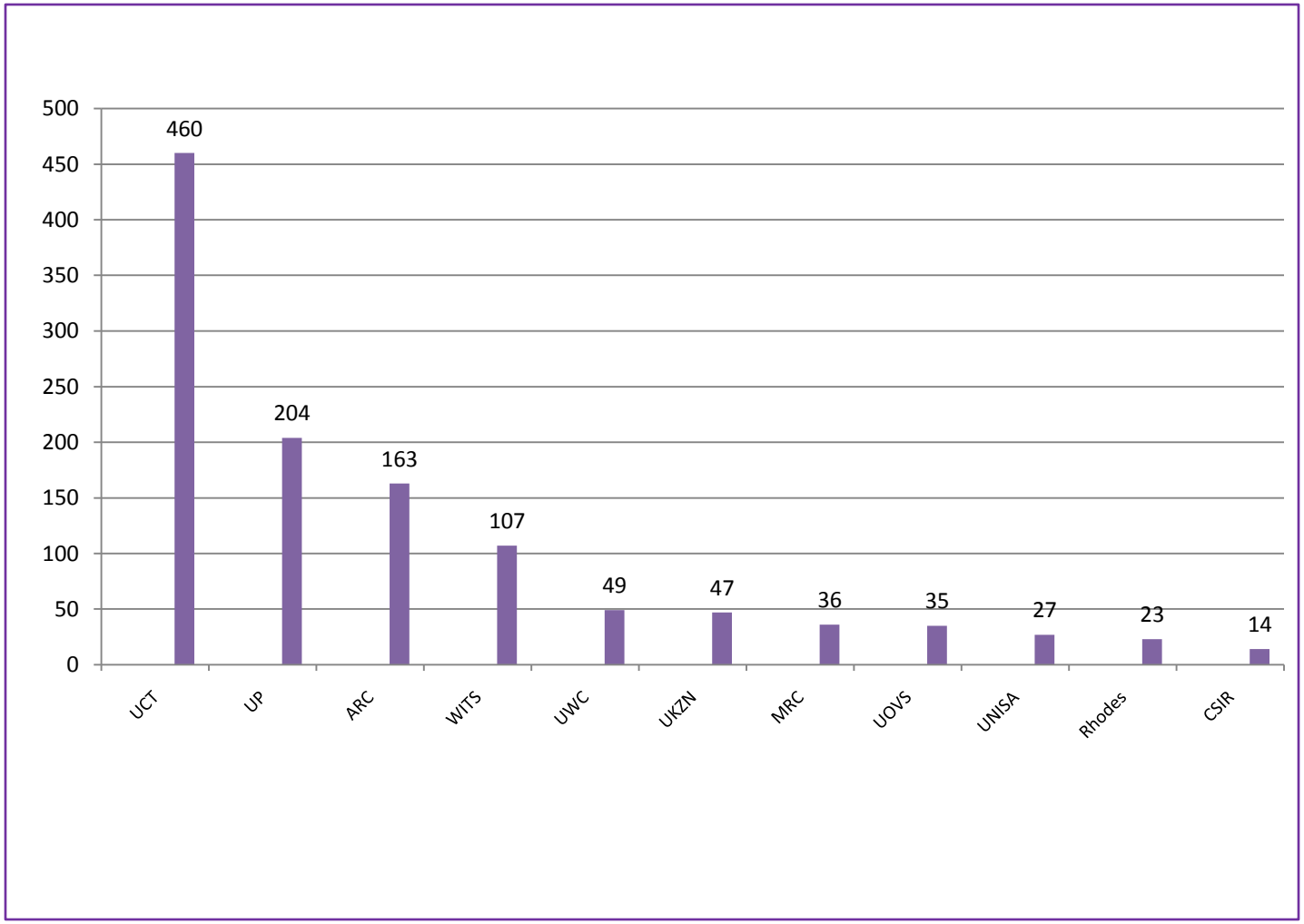
Distinctive Competencies (SciVal)



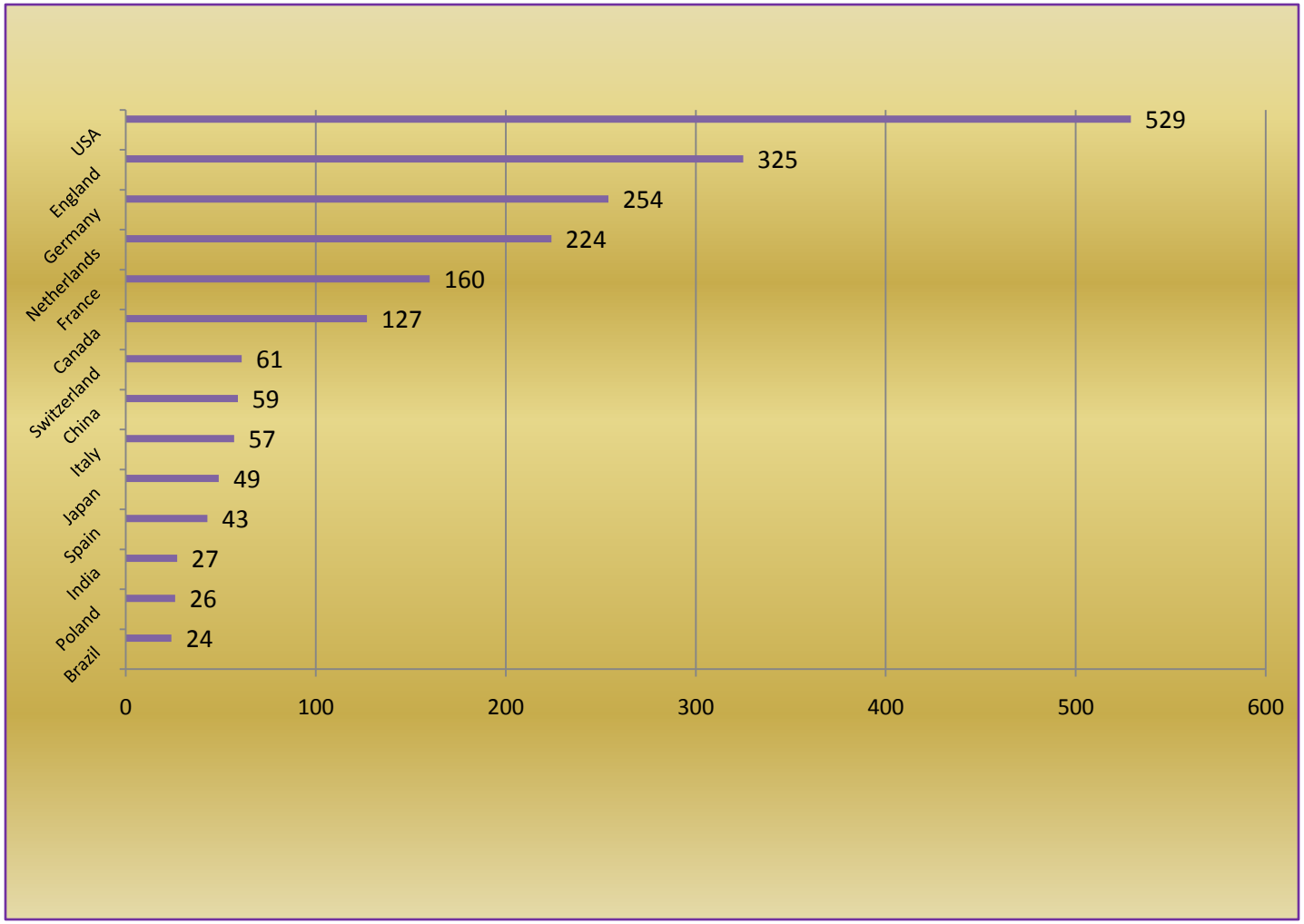
Subject areas

- Math & Physics
- Chemistry
- Engineering
- Earth Sciences
- Biology
- Biotechnology
- Infectious Diseases
- Medical Specialities
- Health Sciences
- Brain Research
- Humanities
- Social Sciences
- Computer Science
- Other

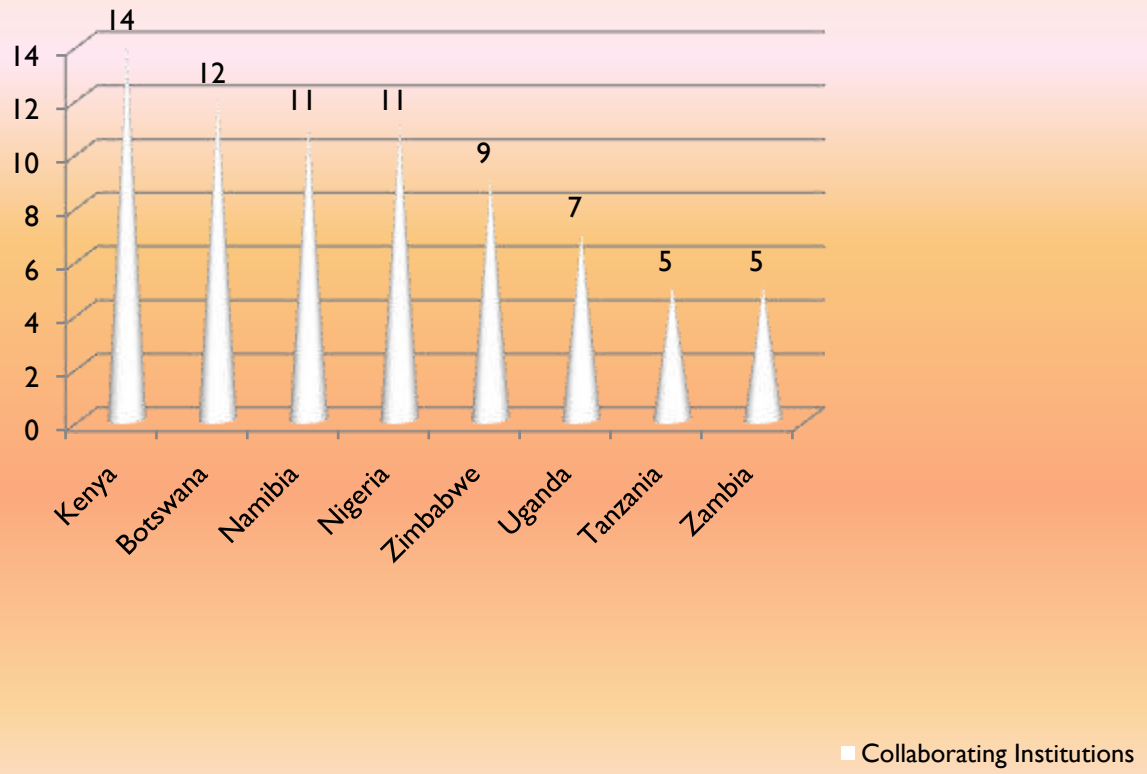
Co-authored publications: South Africa



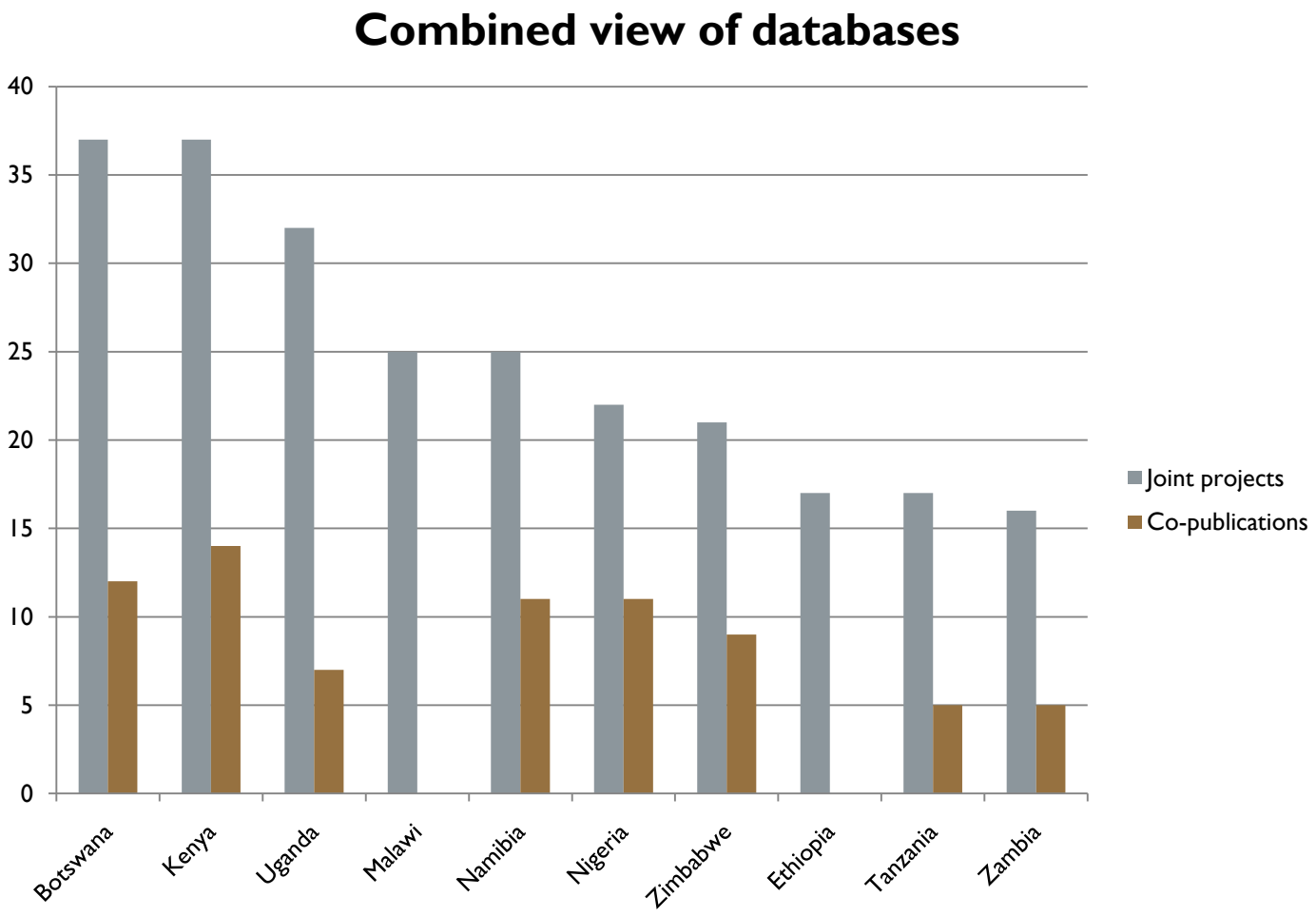
Co-authored publications: World



Co-authored publications: Africa



Applications of databases



Applications of databases

- Creating a typology/map of our African networks
- Mailing lists and contacts for calls/conferences
- As indicator for departments' African involvement
- Identifying and forming strategic partnerships (decision support system)
- Surveys & research on models and best practices
- Tracking research output emanating from south-south collaboration
- Next step: transferring to web platform to increase **visibility**

African networks: What do we have in place?

- Six Institutional MoU's (with mobility incentives)
  - Makerere University
  - University of Dar es Salaam
  - University of Botswana
  - University of Namibia
  - KNUST (Ghana)
  - University of Zimbabwe
- Links with regional and continental networks
  - Association of African Universities (www.aau.org)
  - OSSREA (www.ossrea.net) & CODESRIA (www.codesria.org)
  - ICSU-Africa (www.icsu-africa.org)
  - ANSTI/UNESCO (www.ansti.org)
  - L'Agence universitaire de la Francophonie (www.auf.org)
  - African Network for Agriculture, Agroforestry and Natural Resources Education
  - CGIAR Centres (IITA, IFPRI, ILRI, G&D)
- Strategic partners
  - SA Ministries (DST, DoE, DTI, etc)
  - NEPAD/AU, SADC, COMEDAF, etc
  - ACU, IAU, IIE, etc

South-South Networks

- Examples of research and capacity building initiatives:
  - Partnership for Africa's Next Generation of Academics – PANGeA (incorporating the *African Doctoral Academy*)
  - Alliance for Plant Health in Africa - APLHA (Food Security Initiative)
  - African Institute for Mathematical Sciences (AIMS)
  - Research & Innovation Management Improvement for Africa and the Caribbean (RIMI4AC)
  - Diagnosis of tuberculosis (ZAMSTAR)
  - Central Analytical Facility training
  - UNU-Education for Sustainable Development in Africa
  - NEPAD Water CoE
  - AU Pan-African University (Space Science Centre)

Real Challenge?

- Why should we engage in South-South Collaboration (SSC)?
  - Development cooperation? Research Cooperation? Or focus on postgraduate training?
- What is our working definition of SSC/NSSC?
  - Including guidelines/ethics for collaboration
- What are partners' expectations of SSC/NSSC?
  - Clarifying norms, understanding scientific cultures
- What is our strategy for SSC/NSSC?
  - Where are we now? Where do we want to be?

Proposal for study on NSSC

- Epistemological:
  - Discourse analysis from 30 cases of SSC/NSSC
  - Scientific norms & values in different cultural contexts
  - Nature of the University (in developing contexts)
- Historical/ Anthropological
  - History of HE and collaboration in Africa
- Change Management
  - Leadership & strategy
- Other?

➢ 'Menu' of steps, choices, procedures, norms/values for partners to agree upon when initiating NSSC