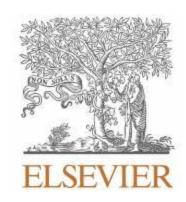
South Africa - A publisher's perspective

STM/PASA conference

11 June, 2012, Cape Town

Mayur Amin, SVP Research & Academic Relations



As a science information company, we have a unique vantage point on research



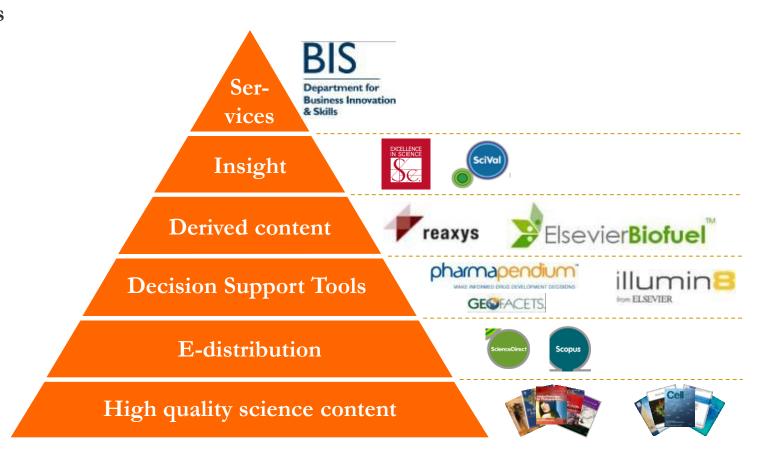


In one year we see (as an industry): over 3.5 million articles submitted, over 1.7 million articles published, 30 million readers, over 2 billion article downloads, 30 million article citations

Transitioning to content + solutions



Today: Scientific information solutions



1665: First peerreviewed journal

Topics



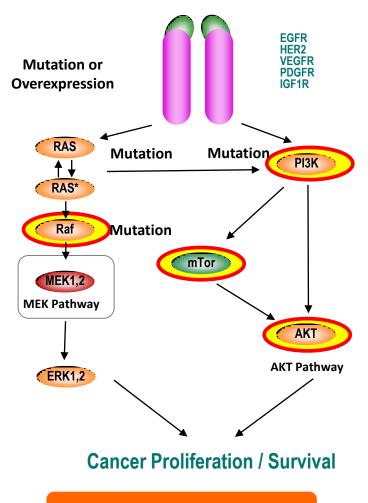
1. Broad changes in the research landscape

- 2. South Africa's research
 - Research outputs
 - Quality of research outputs
 - Collaboration



Research has become complex and interlinked

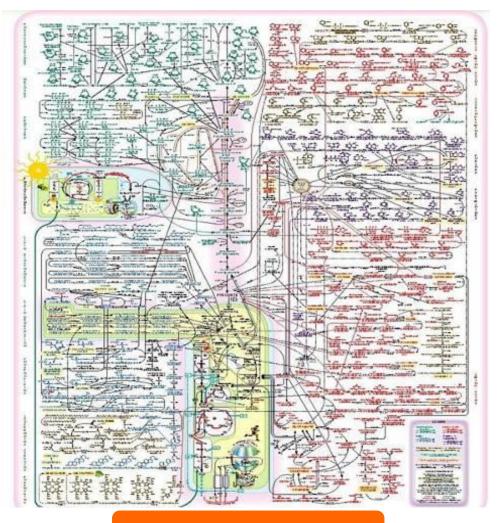




From the simple ...

Research has become complex and interlinked





... to the very complex

Collaboration has become important





From individual research ...

Collaboration has become important





... to co-working ...

Collaboration has become important

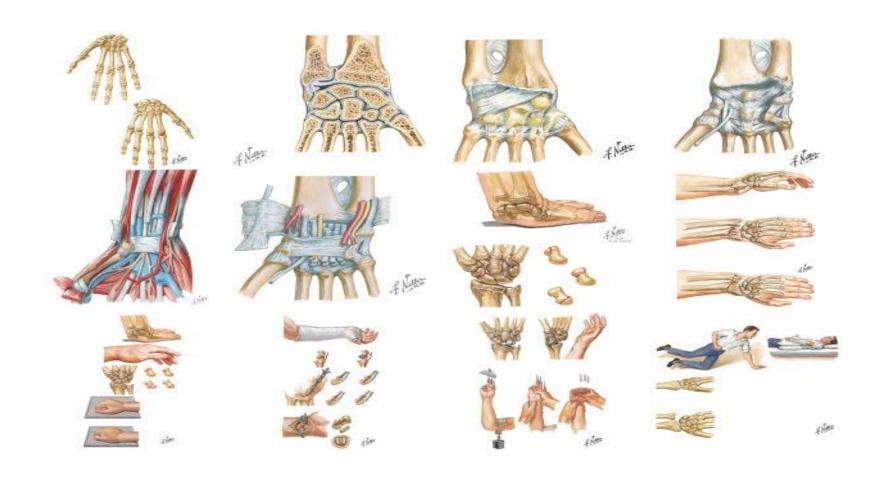




... to hyper-collaboration

Content has become interactive and actionable

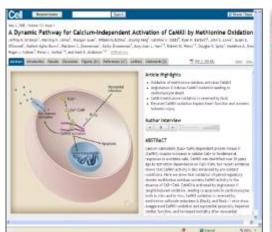




From static ...

Content has become interactive and actionable



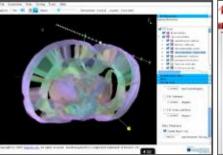










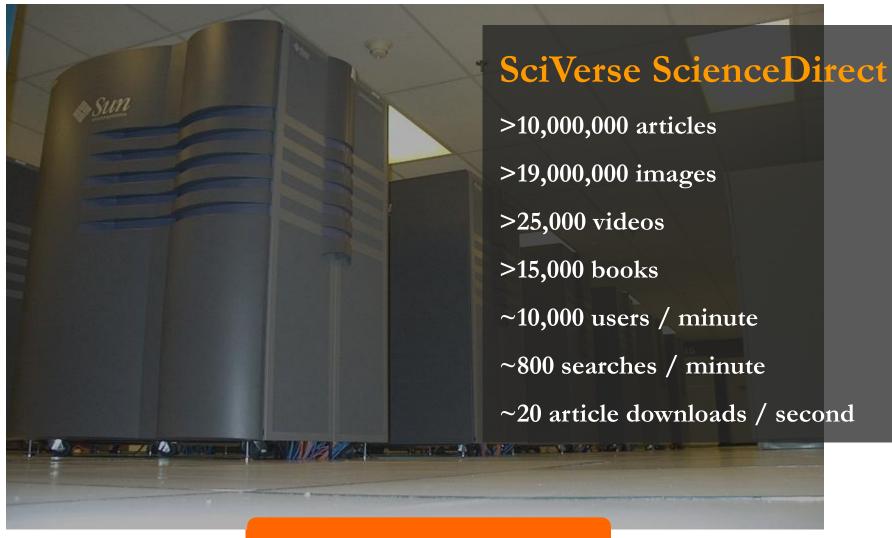




... to very interactive

Disseminating content has become virtual





... to super computers

Today's discussion

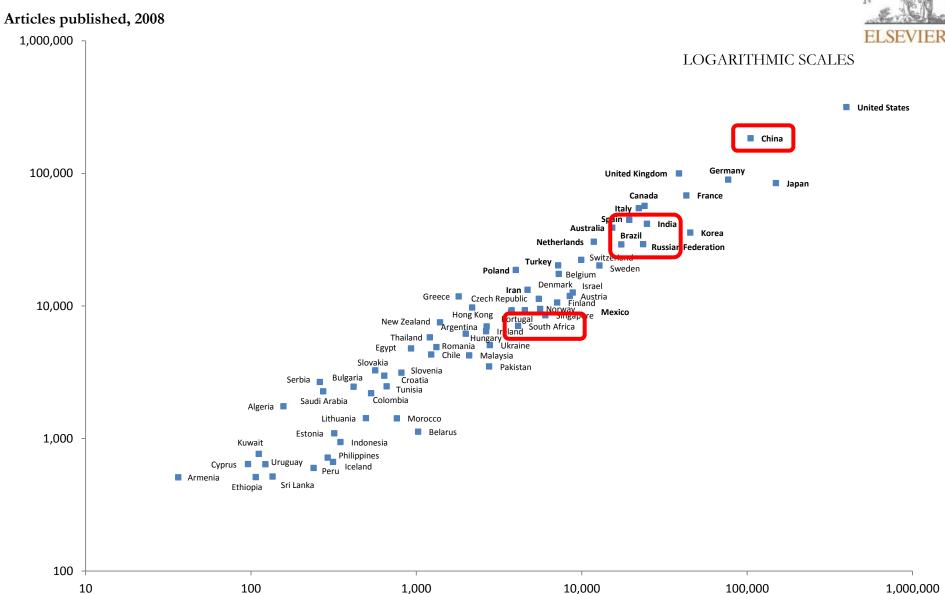


- 1. Broad changes in the research landscape
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R&D funding vs. outputs



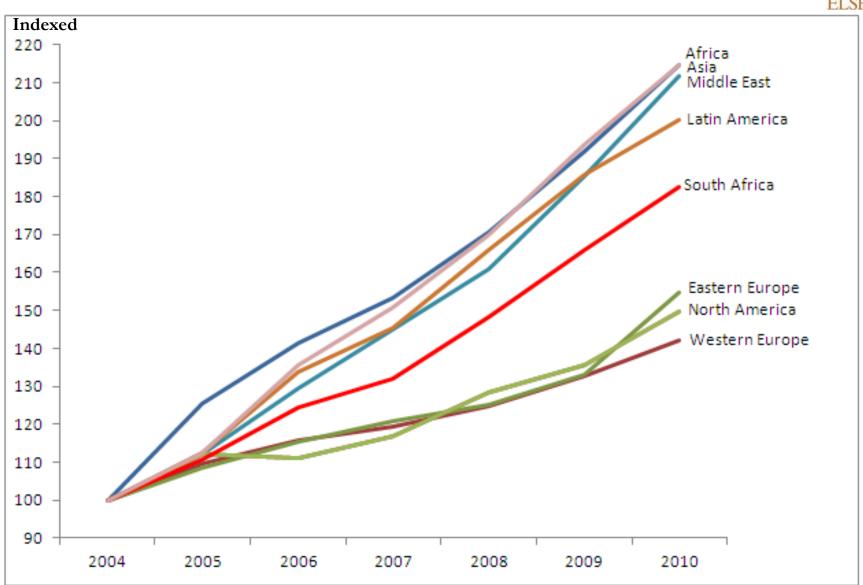


Gross Expenditure on R&D (\$Millions)

Articles accepted for publication **Elsevier ELSEVIER** Asia 70,000 -Western Europe 65,000 60,000 55,000 50,000 US & Canada 45,000 40,000 35,000 30,000 25,000 Eastern Europe 20,000 Middle East South America 15,000 Australia & Oceania 10,000 Africa 5,000 Central America 0 -2005 2007 2004 2006 2008 2009 2010

Growth in Research Articles published

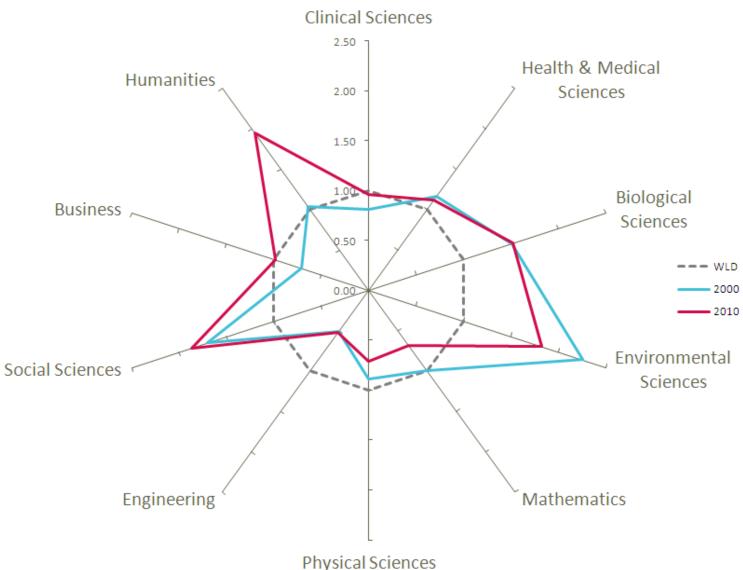




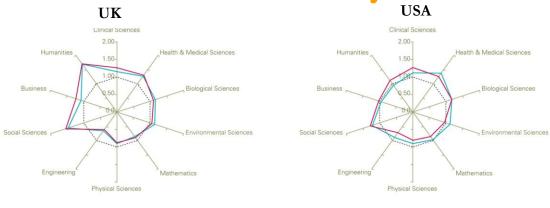
South Africa – Research Emphasis

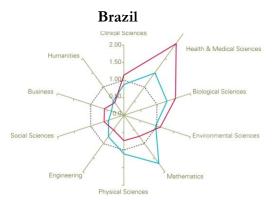


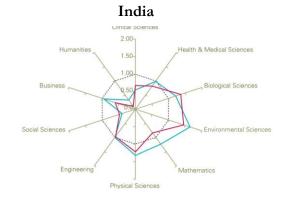
Relative Activity Index

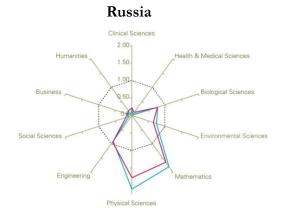


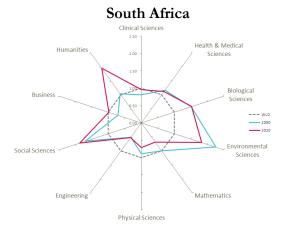
South Africa – Research Activity Index





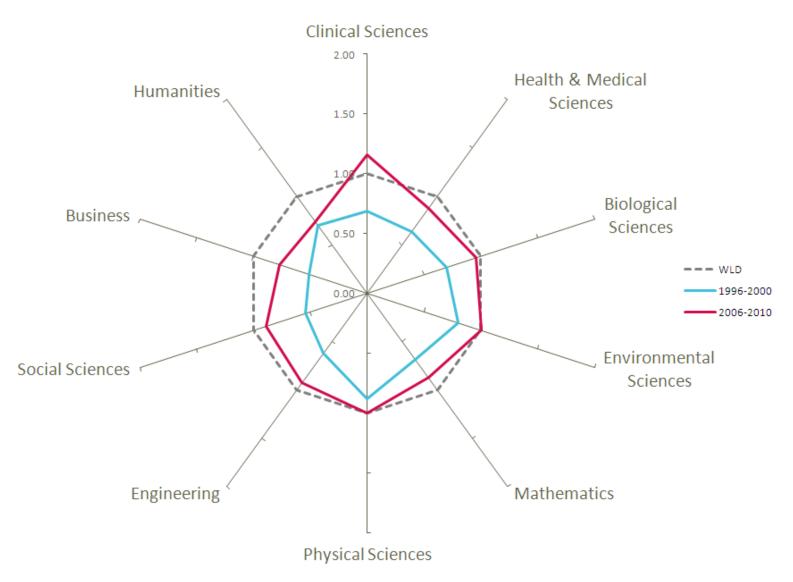




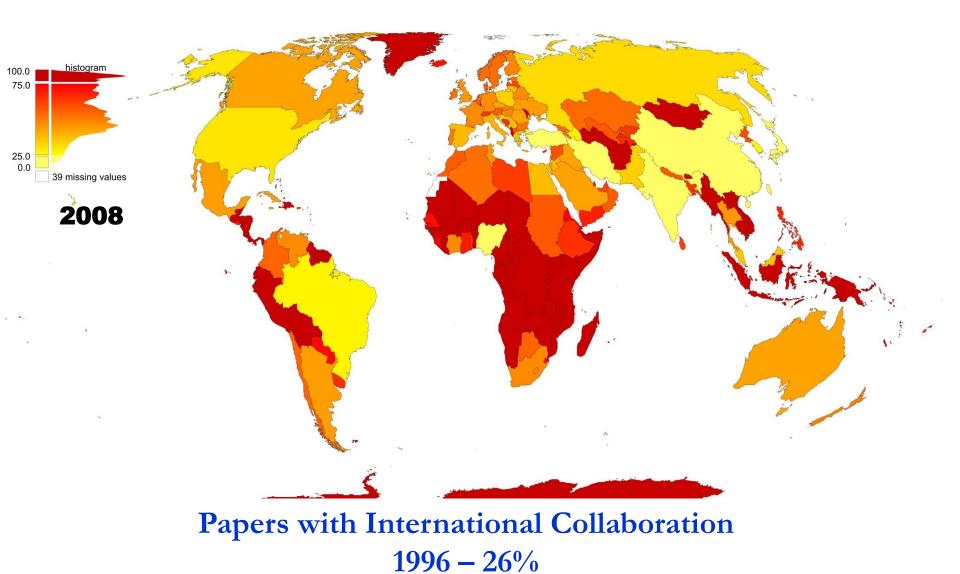


South Africa – Quality of research papers Citation trends (FWCI)





International Collaboration



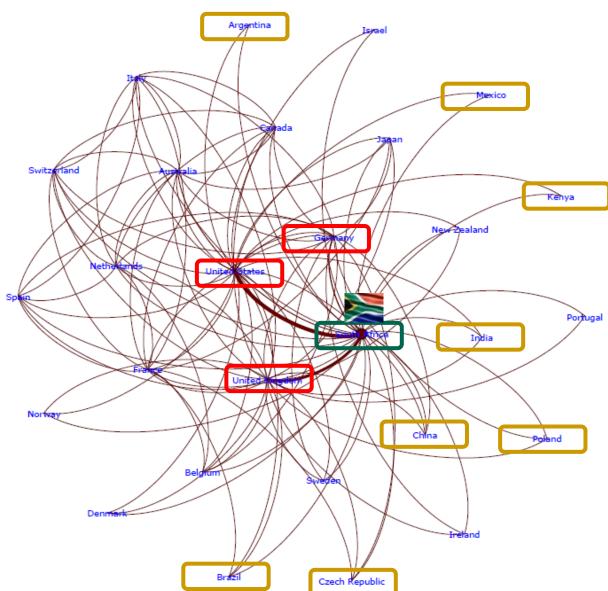
2008 - 35%

Source: Scopus data

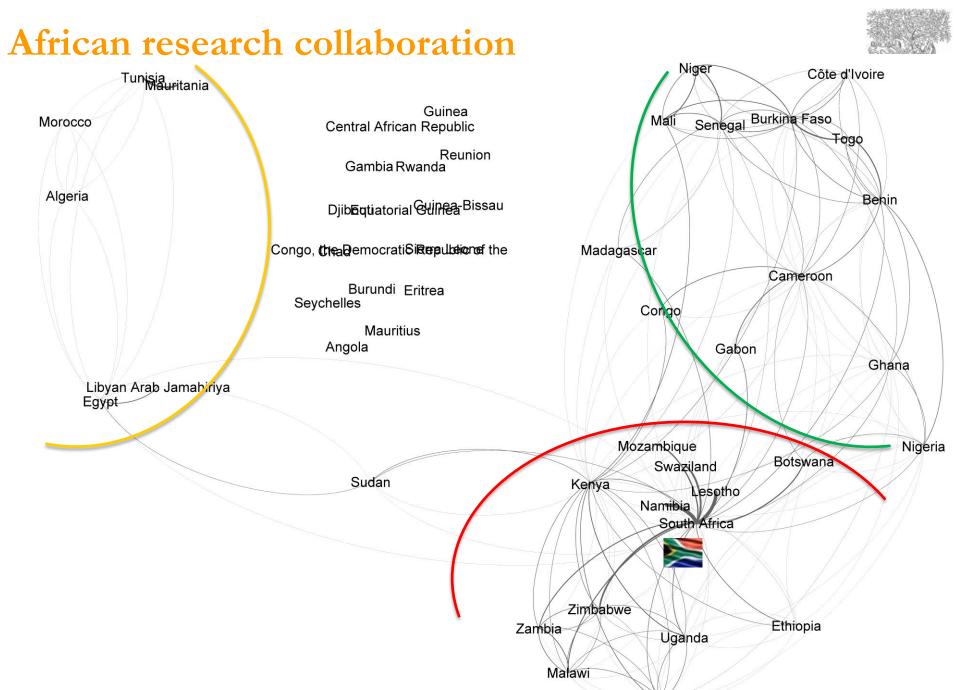
19

Global research collaboration - South Africa



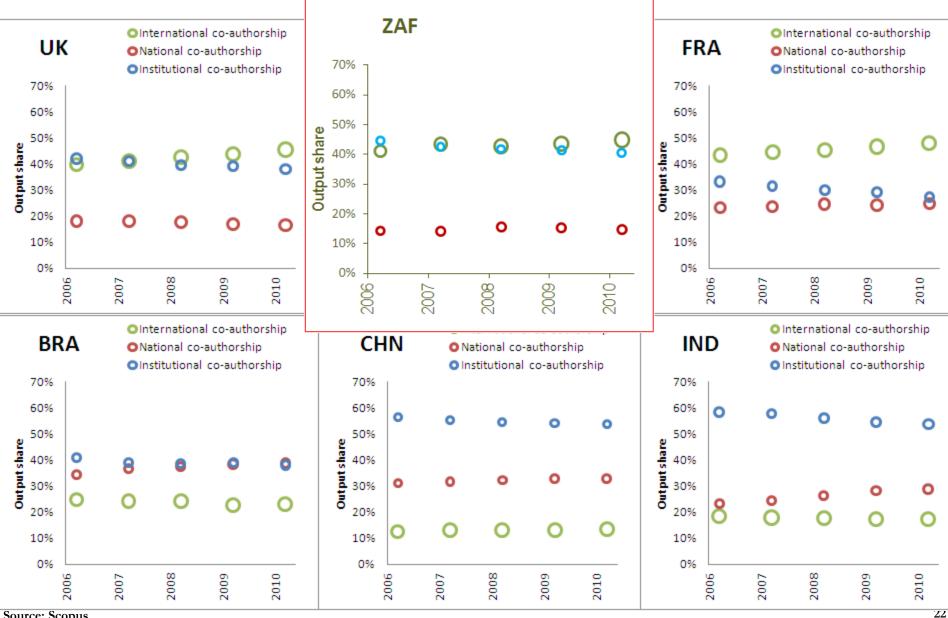


- Collaboration threshold = 100 publications
- Collaboration is mapped <u>only</u> on papers authored by South African researchers in the period 2005-2009 (> 40K publications)



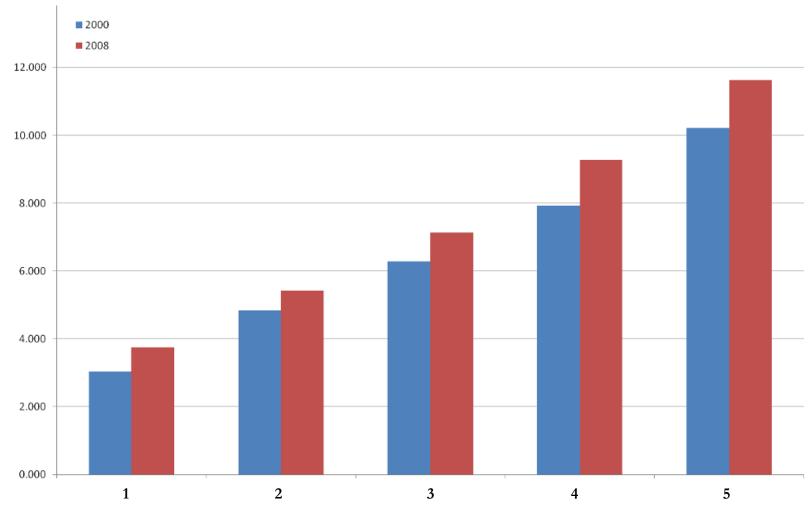
Source: Scopus Tanzania, United Republic of

International collaboration – Recent trends



International collaboration and citation impact

Citations per article



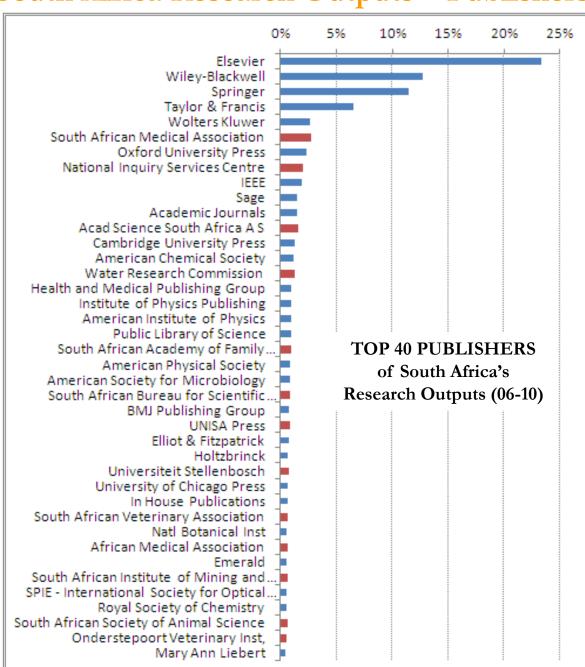
Number of collaborating countries (where 1 = domestic)

International scientific collaboration is generally acknowledged as a positive force driving national impact and prestige Domestic articles have around 3 times fewer citations per article than those with five collaborating countries

International collaboration and citation impact

	Citations per article fold increase over institutional co-authorship		
	Institutional	National	International
UK	1.0	1.4	2.0
CAN	1.0	1.4	2.1
DEU	1.0	1.2	2.0
FRA	1.0	1.5	2.3
ITA	1.0	1.4	2.4
JPN	1.0	1.4	2.4
USA	1.0	1.5	1.7
BRA	1.0	1.1	2.6
CHN	1.0	1.2	3.1
IND	1.0	0.8	1.8
RUS	1.0	1.2	5.9
ZAF	1.0	1.3	3.2

South Africa Research Outputs - Publishers





Top 40 publishers of South Africa's research outputs (2006-2010):

- accounted for 90% of all SA papers published
- include 13 South African publishers accounting for 13% of all SA papers



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