

Can we find the next Einstein in Africa?

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AIMS NEI

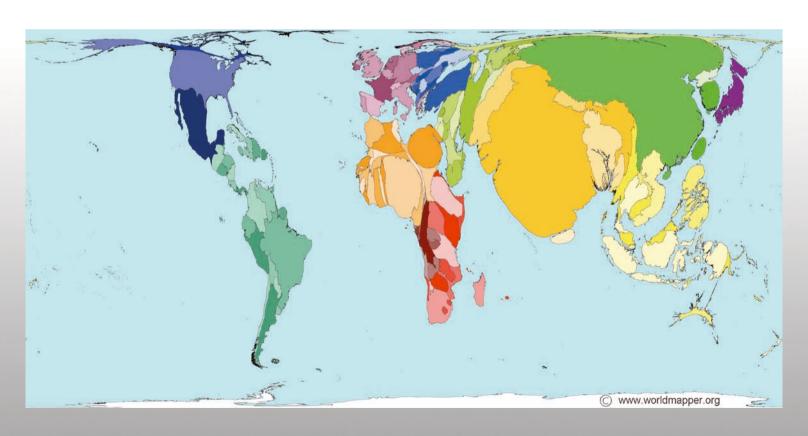
Building the Scientific Mind 2011 Sustainability Institute, Stellenbosch 10 March 2011







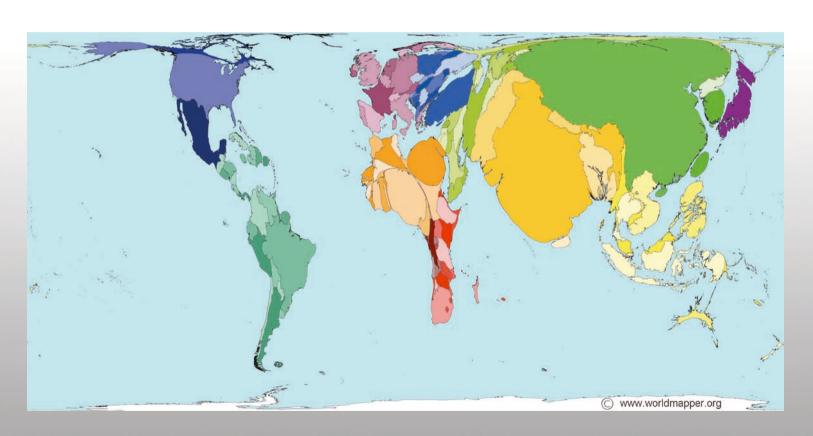
WHY SHOULD WE?



Primary Education



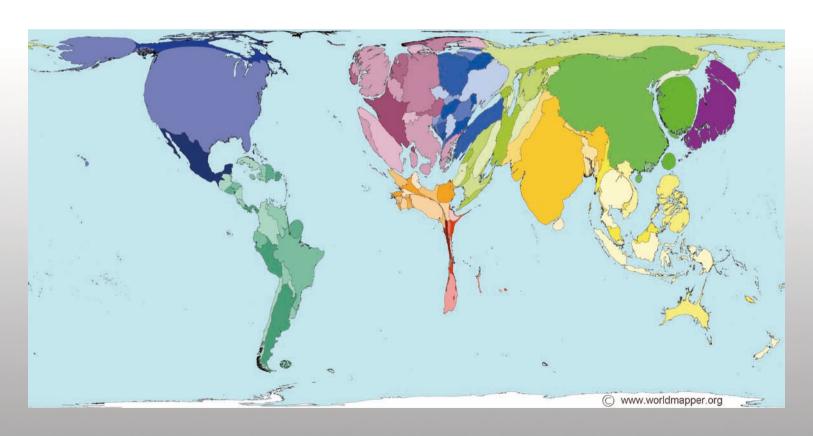
WHY SHOULD WE?



Secondary Education



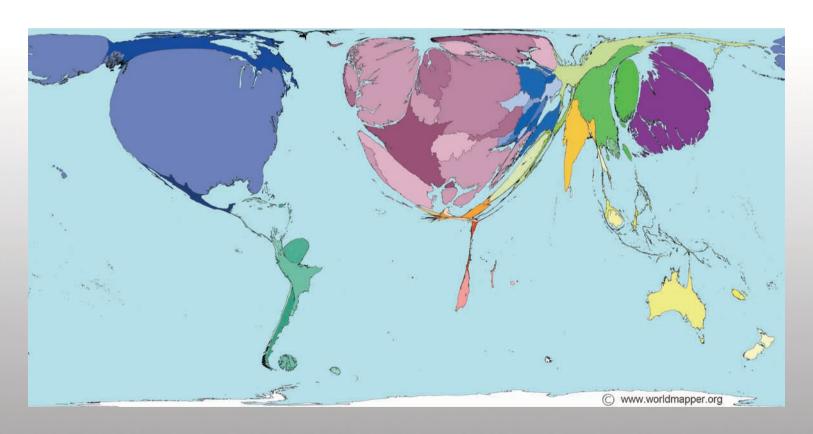
WHY SHOULD WE?



Tertiary Education



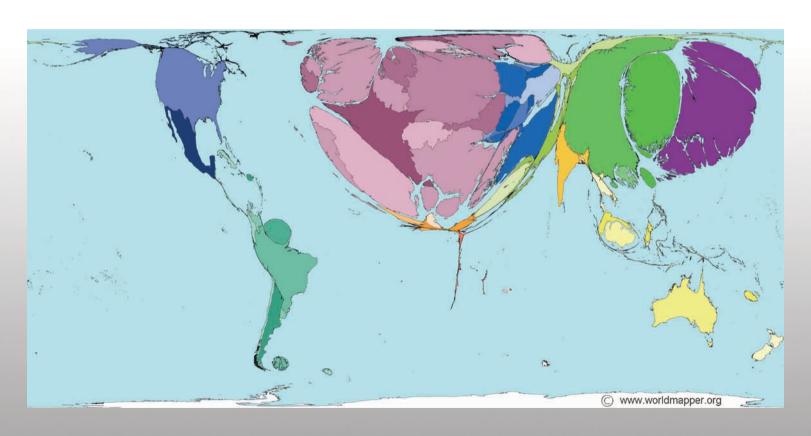
WHY SHOULD WE?



Scientific Research

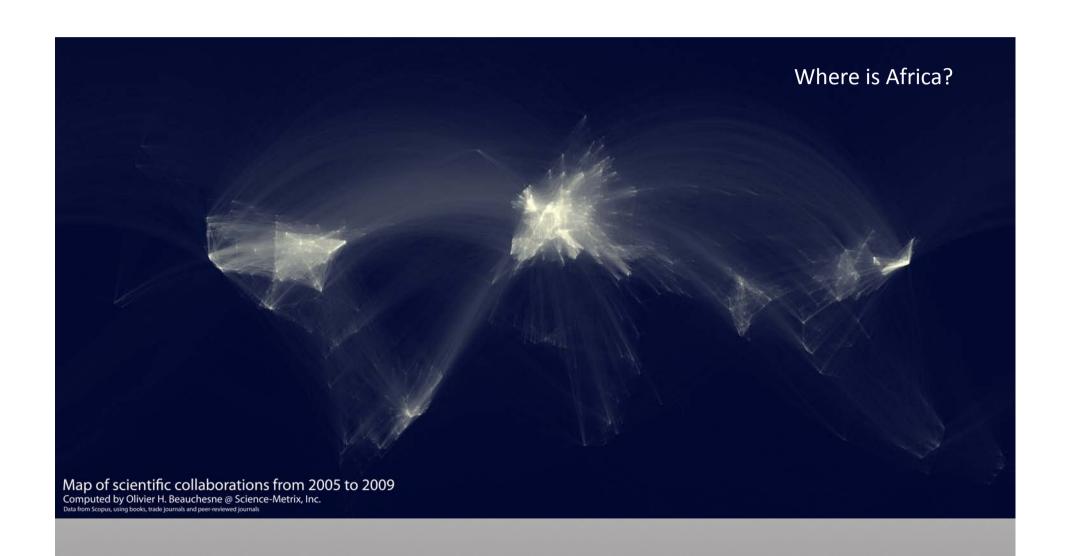


WHY SHOULD WE?



Growth of scientific research





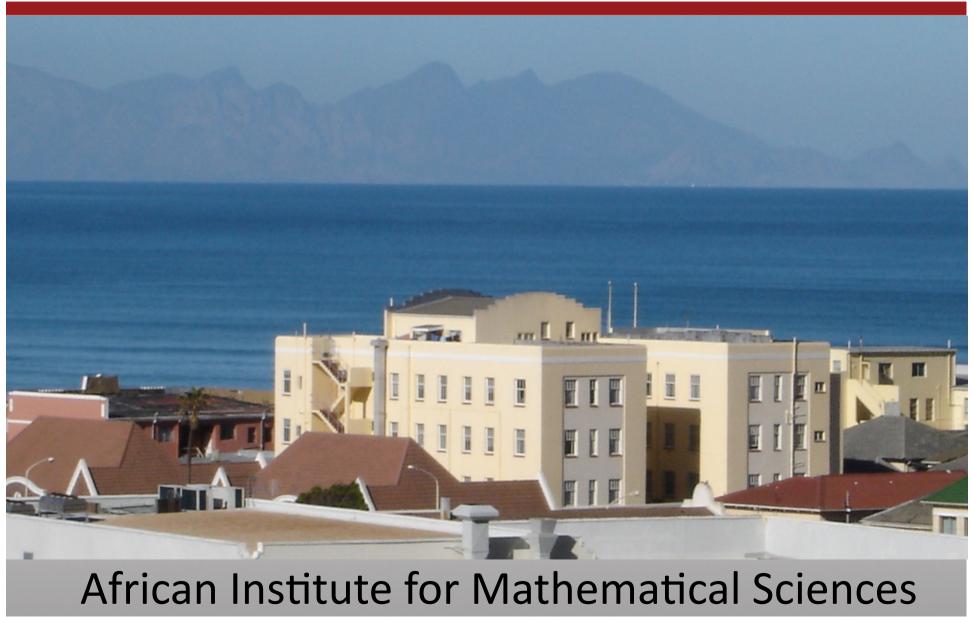


The question

Can we find the next Einstein in Africa?

becomes: HOW?







an African Institute

- Growth
- Pan-African
- Skills & diversity
- Computing
- International lecturers
- 24-hour learning environment
- Motivation & spirit

African Institute for Mathematical Sciences







Opened in 2003

305 alumni from 31 countries

1/3 women

95% proceeded to study for a masters or PhD

120 Masters & 15 PhDs completed

112 Masters & 114 PhDs underway

(Nov 2010)

Most graduates are still in Africa

African Institute for Mathematical Sciences



What happened next?



2008 Winners



Neil Turok's Wish

"My wish is that you help us unlock and nurture scientific talent across Africa, so that within our lifetimes we are celebrating an African Einstein."







Plan:
To create 15
AIMS Centres,
across Africa,
within a
decade





Cost-effective plan Developing Africa's brightest minds Expanding a proven model Building mathematical and computing skills: foundational to modern science and technology Local ownership and international partnership Reinforcing local universities Countering the brain drain Endorsed by AMI-Net, AU, NEPAD



TED 2010

Google donates \$1 million to AIMS: A TED Prize wish



Amy Novogratz just announced from stage that Google has donated \$1 million to AIMS, the African Institute for Mathematical Sciences. This follows Daphney Singo's moving talk about how AIMS is helping her gain her PhD in nuclear physics -- a standing-ovation story of one South African woman's determination to become educated. As her mother told her, "Education is the husband that will never let you down."



AIMS-NEI

Canada Announces \$20M for AIMS-NEI



Canadian Prime Minister Stephen Harper announcing support for AIMS-NEI



Next Einstein Initiative Recognized as World Changing Idea with US\$2m Award from Google

Mountain View, CA, September 24, 2010 - As part of a project to fund world-changing ideas, Google has awarded US\$2 million to the African Institute for Mathematical Sciences (AIMS) for its Next Einstein Initiative (NEI), a plan that will accelerate higher education in math and science across Africa.

AIMS is one of the winners of Google's Project 10^100, which gathered over 150,000 ideas, from the public, to change the world by helping as many people as possible. Google today donated \$10 million to five organizations who will bring to life the top 5 ideas, as voted on by the public.











Africa is the world's greatest untapped pool of scientific and technical talent

Developing this talent is essential to the continent's future

AIMS-NEI will have short, medium and long-term impacts on Africa's growth to full educational, political and economic self-sufficiency



Let us
work together
to make this
continent
as big as it really is

