Africa Collaboration Survey Results

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Survey Background

Survey Goals:

• To capture the amount and types of current and future collaboration interests with the African R&E member community.

• To share these results with the African NRENs, and enable meaningful collaborations through the development of broadband infrastructure.

• To assist efforts to provide affordable high speed international connectivity and applications opportunities.
Survey Background

Survey Timeline/Methodology:

• The survey was active online from Feb 3 - April 1, 2010.

• Developed in collaboration with UbuntuNet and Internet2.

• The survey announcement was sent to major lists within the R&E communities including Megaconference, Megaconjr, I2-International, I2-Teach, I2-K20, EUNIS, Terena, and UbuntuNet.
Survey Results - Part I Demographics

• 135 total responses
• 57.8% of these completed the entire survey (some skipped a question or did not finish)
• Responses came in from all around the world (Europe, Africa, US predominantly)
• 75% US, 23% Europe, 2% Asia (after removing African responses)
Survey Results - Part I Demographics (con’t)

- Predominantly HE responses
  - 38% Graduate/Post-graduate
  - 11.7% 4 yr. University
  - 7% 4 yr. College
  - 7.8% Community College
  - 14.8% Public 12
  - 3.1% Research Facility
  - 16.4% Other

= 64.5% HE Responses
Survey Results - Part II Current Initiatives

- 49% - Currently have initiative(s) with a partner in Africa.
- 51% - Do NOT have current initiative(s) with a partner in Africa.
- However, 87% of those who do not have current initiatives are interested in developing one.
- Of those that do have current initiatives, the top partner countries are:
  1. S.Africa
  2. Ghana
  3. Kenya
  4. Uganda
  5. Nigeria
Survey Results - Part III Future Collaborations

- Top target countries of planned future collaborations
  - 1. S. Africa
  - 2. Ghana
  - 3. Uganda

- Top application areas of future collaborations
  - 1. Distance Learning/Joint Education Programs
  - 2. Capacity Building
  - 3. Student/Faculty Exchanges

- Sampling of other intended applications of future collaborations include: internet performance measurement, telemedicine, music technology research, GIS, transportation research and sustainability

- 36.8% of those interested in developing future collaborations have pursued funding
## Targeted African Countries

- **Algeria** – 4
- **Angola** – 2
- **Benin** – 1
- **Botswana** – 2
- **Burkina Faso** – 2
- **Burundi** – 1
- **Cameroon** – 1
- **Cape Verde** – 1
- **Cote D’Ivoire** – 2
- **Egypt** – 5
- **Ethiopia** – 4
- **Gambia** – 1
- **Ghana** – 14
- **Kenya** – 14
- **Libya** – 1
- **Madagascar** – 1
- **Mali** – 2
- **Malawi** – 3
- **Mauritania** – 1
- **Mozambique** – 6
- **Morocco** – 4
- **Namibia** – 1
- **Nigeria** – 10
- **Rwanda** – 8
- **Senegal** – 4
- **South Africa** – 15
- **Somalia** – 1
- **Sudan** – 1

- **Tanzania** – 5
- **Tunisia** – 1
- **Uganda** – 14
- **Zambia** – 2

- **Unsure** – 24
Interested Organizations

- U.S. National Library of Medicine
- Excellence in Education, (U.S.)
- DFN - Deutsches Forschungsnetz
- Carnegie Corporation of NY
- HEAnet, LTD, (Ireland)
- United Nations World Food Programme
- Bridge, Connect, Act, Study Abroad, U.S.
- Teachers Without Borders
- The World Bank
- TERENA
Survey Results - Part IV Technology

- Top Five Technology Application Use/Interest Areas:
  1. Distance Learning
  2. SD Video
  3. Digital Libraries
  4. HD Video / Large File Transfers


- Next steps???
Landscape of African NRENs

- Active RENs essentially established in Northern, Southern and Eastern Africa
- Well established NRENs include:
  - TENET (South Africa)
  - KENET (Kenya)
  - MAREN (Malawi)
  - EUN (Egypt)
  - MARWAN (Morocco)
  - RNU (Tunisia)
  - CERIST (Algeria)

Map and data courtesy of Boubakar Barry, 2008
Landscape of African NRENs

- Several initiatives in all African regions for the formation of NRENs
- Most of the initiatives in Southern/Eastern Africa (UbuntuNet momentum):
  - Eb@le (DRC)
  - MoRENet (Mozambique)
  - RENU (Uganda)
  - RwNet (Rwanda)
  - SUIN (Sudan)
  - TERNET (Tanzania)

Map and data courtesy of Boubakar Barry, 2008
Advanced initiatives include:

- ZAMREN (Zambia)
- NAMREN (Namibia)
- NgREN (Nigeria)
- GARNET (Ghana)
- Cameroonian REN (embryo exists with RIC)
- Senegal (RENER)
- Côte d'Ivoire

Map and data courtesy of Boubakar Barry, 2008
www.internet2.edu

Africa SIG Wiki Collaboration Space

https://wiki.internet2.edu/confluence/display/emergingren/Africa+Region

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