



eGY-Africa: addressing the digital divide for science in Africa

Paul Baki (1), Anna Nguno (2), Charles Barton (3), Larry Amaeshi (4), Chifundo Tenthani (5), Monique Petitdidier (6), and Les Cottrell (7)

(1) Dept Technical and Applied Physics; School of Pure and Applied Sciences, The Kenya Polytechnic University College, Kenya (paulbaki@gmail.com), (2) Div. Regional Geoscience, Geol. Survey of Namibia, 1 Aviation Road - Private Bag 13297, Windhoek, NAMIBIA (anguno@mme.gov.na), (3) Research School of Earth Sciences, Australian National University, Canberra, Australia (cebarton@gmail.com), (4) Department of Physics, University of Lagos, Lagos, Nigeria (larryamma@yahoo.co.uk), (5) University of Malawi, The Polytechnic, Private Bag 303 Blantyre 3, Malawi (ctenthani@gmail.com), (6) IPSL/LATMOS, CNRS, UVSQ, 78280 Guyancourt, France (monique.petitdidier@latmos.ipsl.fr), (7) SLAC National Accelerator Lab., 2575 Sand Hill Rd, M/S 97 Menlo Park, CA 94025, USA (cottrell@slac.stanford.edu)

Adoption of information and communication technologies and access to the Internet is expanding in Africa, but because of the rapid growth elsewhere, a Digital Divide between Africa and the rest of the world exists. In many sub-Saharan African countries, education and research sector suffers some of the worst deficiencies in access to the Internet, despite progress in the development of NRENs - National Research and Education (cyber) Networks. By contrast, it is widely acknowledged in policy statements from the African Union, the UN, and others that strength in this very sector provides the key to meeting and sustaining Millennium Development Goals. Developed countries with effective cyber-capabilities proclaim the benefits to rich and poor alike arising from the Information Revolution. This is still a dream for many scientists in African institutions. As the world of science becomes increasingly Internet-dependent, so they become increasingly isolated. eGY-Africa is a bottom-up initiative by African scientists and their collaborators to try to reduce this digital divide by a campaign of advocacy for better institutional facilities. Four approaches are being taken. The present status of Internet services, problems, and plans are being mapped via a combination of direct measurement of Internet performance (the PingER Project) and a questionnaire-based survey. Information is being gathered on policy statements and initiatives aimed at reducing the digital divide, which can be used for arguing the case for better Internet facilities. Groups of concerned scientists are being formed at the national, regional levels in Africa, building on existing networks as much as possible. Opinion in the international science community is being mobilized. Finally, and perhaps most important of all, eGY-Africa is seeking to engage with the many other programs, initiatives, and bodies that share the goal of reducing the digital divide – either as a direct policy objective, or indirectly as a means to an end, such as the development of an indigenous capability in science and technology for national development. The expectation is that informed opinion from the scientific community at the institutional, national, and international levels can be used to influence the decision makers and donors who are in a position to deliver better Internet capabilities. eGYAfrica workshops have been held approximately bi annually, the last of which was in Nairobi Kenya.