

INTERVENTION

BY

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AT

**USING E-SCIENCE TO STRENGTHEN THE
INTERFACE BETWEEN SCIENCE, POLICY AND
SOCIETY**

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Prof. Ita Okon Basse Ewa, February 26, 2013



E-SCIENCE PLATFORM

➤ Internet

- Social media (Facebook, Twitter)
 - ✓ over 15 million Nigerians (~10% of Population)
- Open Source
 - ✓ software access for engineering, science, media...
- Website (Portals)
 - ✓ Universities (about 200 public and private)
 - ✓ Research institutions (Over 1000)

Internet Usage Statistics:

45,039,711 Internet users as of Dec/2011, 26.5% of the population, according to [ITU](#).

Latest Population Estimate:

170,123,740 population for 2012, according to [Census Bureau](#)

Country Area:

923,768 sq km

Internet Usage and Population Growth:

YEAR	Users	Population	% Pen.	Usage Source
2000	200,000	142,895,600	0.1 %	ITU
2006	5,000,000	159,404,137	3.1 %	ITU
2009	23,982,200	149,229,090	16.1 %	ITU
2011	45,039,711	155,215,573	26.5 %	ITU



E-SCIENCE PLATFORM

➤ Mobile

➤ GSM

✓ connectivity

○ Communication satellite (rural environments)

○ Fibre optics (Specific Institutions)



E-SCIENCE APPLICATIONS

- Education and Research
- Health
- Policy Development
- Linkages



Education & Research

- ✓ e-Library
 - universities and research institutions
- ✓ open access journals
 - Used for promotion purposes
 - Professional bodies, universities and faculties
- ✓ Online journal submissions
- ✓ project collaboration
- ✓ mobile lessons
- ✓ Online courses (Distant Learning)
 - National open University of Nigeria (NOUN)



Health

- ✓ Telemedicine (Mobile Systems)
 - University of Lagos Nigeria
 - National Hospital, Abuja
 - NAM S& T (Dakar Senegal)

- APPLICATION

- Rural Communities
 - Hinterland
 - Riverine Communities



Policy Development

- ✓ Online submission of position papers
- ✓ Stakeholders engagement



E-SCIENCE IMPACT (PROSPECTS)

Innovations

Intellectual property access

Fab Lab



CHALLENGES

- Internet Speed
- Cost of Internet Access
- Inadequate infrastructure
- Low awareness
- Cultural change (reluctance)
- Interventions (Low coverage)
 - ✓ Electricity (solar photovoltaic)
 - ✓ National Info Tech Dev Agency
 - ✓ (Ministry of Communication Technology)



Thank you for listening!



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