



Development Policy Associates

Accelerated development through collaboration


“People want to be a part of something bigger than themselves...What else are we going to be remembered for, our generation?... We will be remembered for three things right now. The Internet, the war against terror, and what we did or didn't do about this glorious continent of Africa and its travails”

Bono from the Video "Spirit of Davos" 2005






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**Accelerated
Development
Through
Collaboration**

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Research :: Consulting :: Training
ICT4D :: E-government :: IT governance

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A quantum leap in development is required
for developing countries to achieve the
„Millennium Development Goals – MDGs“.

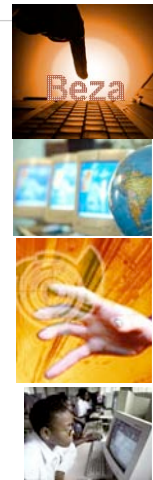




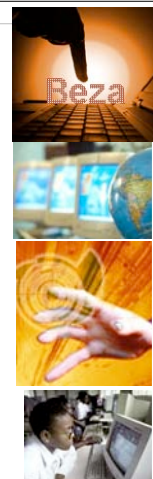
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- It is widely accepted today that a decisive accelerator for development processes are information and communication technologies – ICTs.

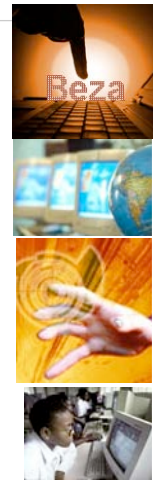


Developing countries need the deployment of ICTs for accelerated and sustainable development.



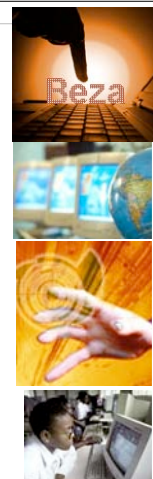


- ICTs are seen as
 - The key solution that will allow them to meet the needs in rural and under-served areas and
 - Solution to bring services to widely distributed citizens rapidly and cost efficiently, be it in health, education public or commerce



The need for collaboration

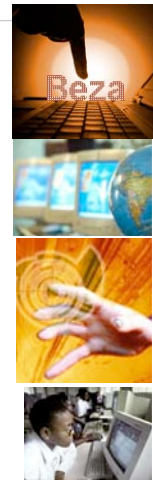
The rationale





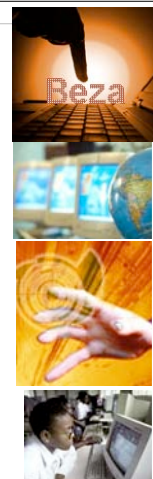
ICT

- Pervasive enabler of industry and developmental solutions.
- have a significant impact on improving the lives of millions of underprivileged people.



Access & Acquisition of Capacity

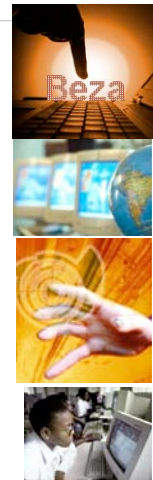
- Capacity in the mastery and use of ICT capacity, both in its own rights as well as as a tool for development.





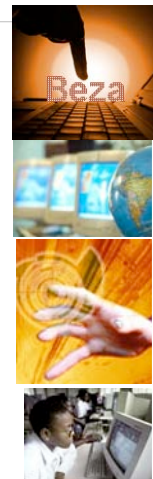
Main Constraints

- Connectivity
- Capability
- Affordability



Challenges & Opportunities for Collaboration

- eCommerce,
- eLearning,
- eWork,
- eGovernance and
- eHealth,





E-Commerce

- The lack of a functioning e-payment systems and e-signature acts/capacities are hindering the growth of e-commerce in these countries
- Area of information security capacity
 - Policy, standard, compliance
 - PKI, forensic, PenTest, Firewall



E-Learning

- Distant education
- Online learning collaboration
- Digital local-content software, based especially on Africa's cultural legacy.
- R & D capacity building
- Education software base on Open Source Software





E-Health

- Telemedicine
- HIV/AIDS research



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Geomatics

- Botswana is a vast country of 582 000 km²
- With a low average density of population of 3 people per km²
- It also is a country well endowed with natural capital (particularly minerals and wildlife).
 - Spatial Technologies (including Geographical Information Systems and Remote Sensing) are
 - Key to support the management of this natural capital
 - Key to enable access to scarce resources such as water and energy.



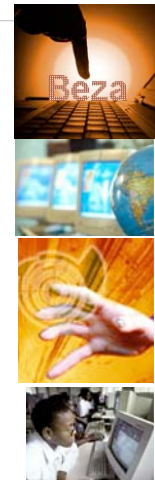
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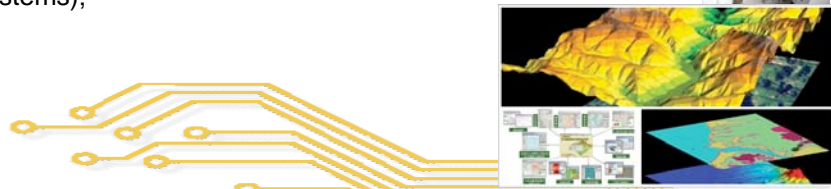
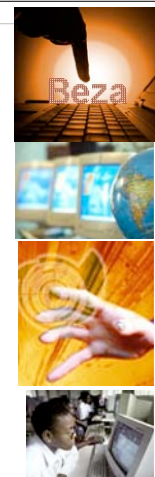
Geomatics

- Geomatics covers the development of new means of acquiring, analyzing, manipulating, presenting and using spatial information.
- Collaboration will focus on improving research capacities on the following areas:
- Geomatics support to develop ecotourism potential maps as well as spatial information products for tourists;



Geomatics- to support

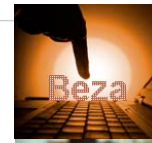
- Water resources management through the mapping of the nature and extent of both surface and underground water resources;
- Biodiversity mapping to support an understanding of the distribution of genetic resources for conservation purposes;
- Mapping of the agricultural potential of Botswana;
- Geological mapping and the identification of the nature and extent of Botswana's mineral resources;
- The modelling of disease prevalence
- Remote sensing technologies and data monitoring systems);





Indigenous Knowledge and Technology System

- There is a wealth of untapped indigenous knowledge in traditional Botswana society.
- There is a danger that this knowledge will be eroded with time or pirated and lost to the National System of Innovation in Botswana.
- A Centre of Excellence is needed to identify, evaluate and commercialise products based on Botswana's indigenous knowledge.



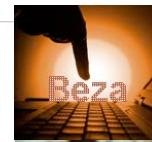
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Centre of excellence

- **To focus research on:**
- Curatorial research to catalogue and conserve traditional knowledge;
- The development of new products for the tourism market that harness traditional creativity and innovation;
- The evaluation, protection and commercialisation of African traditional medicines;
- Treatment of infectious diseases through the use of traditional medicine; and, Sustainable use of traditional medicines and substitutes.
- Domestication of indigenous plants and tubers.



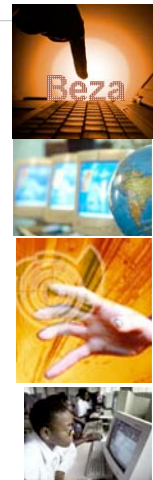
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ICT

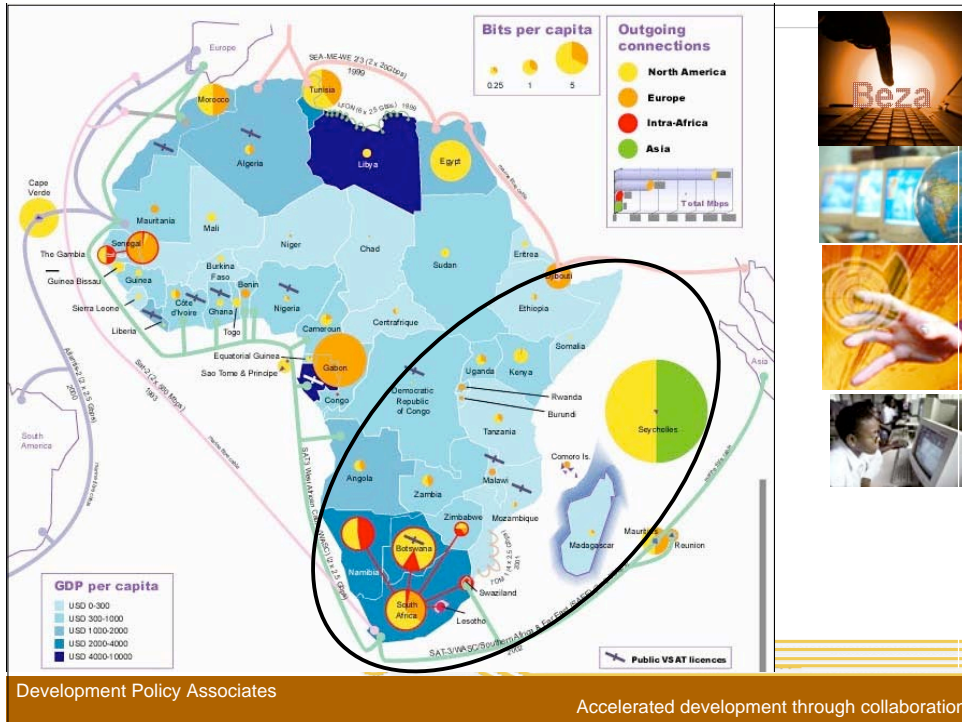
- The pervasiveness of ICT provides a challenge in terms of focus.
- To make a real impact in the short and medium terms
- To Solve real challenges
- The initial focus areas suggested are:
 - Appropriate access technology,
 - software Engineering.



ACCESS

- The specific research areas will be on: ad-hoc wireless networks; software defined
- Radios; Mobile applications; telemetry, VOIP
- The aim of the focus area would be
 - To create widely applicable communications platforms
 - Well suited to Botswana's needs
- This should create opportunities for significant industry involvement and export opportunities to markets faced with similar telecommunication challenges.





Key strategy

- Promoting ICT products and services innovation
 - (e-ICT sector or e-sector)
- Partnering for innovations in developing the ICT workforce
 - (e-HR)
- Promoting incubators and shared services
 - (e-incubators)
- Promoting innovation for e-government
 - (e-gov innovation)
- Promoting innovation to bridge digital divide
 - (e-society)

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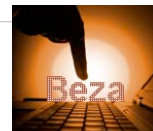


Now is the time

- To act, when all is not yet decided.
- To develop a dynamic ICT sector through building innovative local research and development capabilities to create local solutions targeting economic growth and competitiveness,



It is Possible



Haile
Gebreselassie