

IST-Africa 2011 Final Programme

Gaborone, Botswana

11 - 13 May 2011

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ISTAfrica

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Introduction

IST-Africa 2011 Conference & Exhibition takes place 11 - 13 May 2011 in Gaborone, Botswana. Part of the **IST-Africa Initiative**, which is supported by the European Commission under the ICT Theme of Framework Programme 7 (FP7), **IST-Africa 2011** is the sixth in an Annual Conference Series bringing together delegates from leading commercial, government & research organisations, to bridge the Digital Divide by sharing knowledge, experience, lessons learnt & good practice.

European research activities are structured around consecutive multi-annual programmes, or so-called Framework Programmes. FP7 sets out the priorities - including the ICT Priority - for the period 2007 - 2013. ICT is fully open to international co-operation with the aim to join forces for addressing major challenges where significant added value is expected to be gained from a world-wide R&D cooperation. In this context, the European Commission co-funded the **IST-Africa Initiative** in order to promote the participation of African organisations to the ICT programme.

Hosted by the Government of Botswana through the Department of Research Science and Technology and Technically Co-Sponsored by IEEE, **IST-Africa 2011** focuses on the Role of ICT for Africa's Development and specifically on Applied ICT research in the areas of eHealth, Technology Enhanced Learning and ICT Skills, Digital Libraries, Technology Transfer, Open Source Software, ICT for eInclusion and eAccessibility, eInfrastructures, RFID and ICT for Networked Enterprise and eGovernment and eDemocracy. **IST-Africa 2011** will provide a collegiate setting for presentations and discussions of national & regional developments, issues of concern & good practice models, and networking with peers. **IST-Africa 2011** will also provide an opportunity to learn more about opportunities to participate in ICT Calls under Framework Programme 7 (FP7) and identify potential partners for future proposals.

IST-Africa directly supports the goals of the Africa-EU Partnership on Science, Information Society and Space, the African Ministerial Council on Science and Technology (AMCOST) and the Consolidated Plan of Action for the African Regional Action Plan on the Knowledge Economy (ARAPKE).

The goals of the **IST-Africa** Conference Series are Community Building to facilitate EU-African research cooperation and successful exploitation of research results, to stimulate take-up of RTD results by industry and the public sector, to promote knowledge sharing between commercial, government and research organisations, to exchange experiences about the current state of eAdoption at a sectoral, national or regional level,

Who will you meet?

IST-Africa 2011 Conference & Exhibition attracts policy makers, practitioners, and researchers from leading commercial, government and research organisations around the world. Unlike many research conferences, **IST-Africa** provides an opportunity to meet with senior managers, practitioners, project managers, software engineers and researchers from industry, government and research organisations. Delegates and speakers attend to share knowledge, experience and lessons learnt, and network with their peers from around the world.

IST-Africa 2011 Conference & Exhibition also provides the unique opportunity to identify partners and opportunities to co-operate in international research projects co-funded by the European Commission under the FP7 ICT Programme. Much of the European research results presented in this year's conference were co-funded under the FP6 IST Programme and FP7 ICT Programme.

The Venue

IST-Africa 2011 Conference & Exhibition takes place in the Gaborone International Convention Centre in the Grand Palm Resort. Gaborone is the capital of Botswana and is located one hour by air from Johannesburg.

The Programme

The 3-day programme features an invigorating mix of business and government case studies, technical and policy papers and interactive workshops. As well as opening and closing plenary sessions, delegates may participate in 46 thematically focused parallel sessions featuring different aspects of International Cooperation, eHealth, eInfrastructures, Technology Enhanced Learning and ICT Skills, Digital Libraries, eAccessibility and eInclusion, RFID and Technology Transfer, eInclusion/eAccessibility and eGovernment and eDemocracy. Session Chairs will ensure active discussion and facilitate delegate participation.

In the context of focusing on the Role of ICT for Africa's Development, the Opening Plenary on Wednesday 11 May features a high level dialogue on Implementation of the Africa-EU Partnership on Science, Information Society and Space. The Closing Plenary on Friday 13 May focuses on Initiatives Supporting Development of Regional S&T.

The conference programme is complemented by a demonstration and technology exploitation focused Exhibition and a Networking Reception which will take place on Wednesday 11 May 2011.

The programme is subject to change and the **IST-Africa 2011** Organising Committee reserves the right to alter the contents, venue and/or speakers.

Networking

Networking is a key feature of the **IST-Africa** Conference Series. Paper and workshop sessions are designed to maximise knowledge sharing by providing time for interactive discussions during the conference programme itself. Coffee breaks will take place in the Exhibition area to maximise exposure for technology demonstrations and posters and to facilitate informal one-on-one and small group discussions following paper or workshop sessions.

The Delegate Showcase on the Conference Portal allows registered delegates, speakers and exhibitors to publish their own short profile and research interests to facilitate networking before, during and after the conference. Leverage this functionality to contact potential partners in advance and arrange to meet during the conference.

Living Labs Workshop, 10 May

IST-Africa in cooperation with the European Network of Living Labs is organising a full day workshop as a pre-conference day on Tuesday 10 May 2011.

This workshop will facilitate knowledge sharing in relation to what is involved in setting up Living Labs in Africa as well as experiences and lessons learnt from running Living Labs in other African States and Europe.

IST-Africa 2011 delegates are invited to pre-register for this meeting as part of online registration.

Networking Reception

The IST-Africa Consortium are pleased to announce that a Networking Reception will be held in the **IST-Africa 2011 Exhibition** area in the Gaborone International Convention Centre on Wednesday 11 May, from 18:00 to 20:00. This will allow all conference delegates and accompanying partners to network with other conference delegates, interact with Exhibitors and view technology demonstrations.

Conference Dinner

The IST-Africa Consortium are pleased to announce that a Conference Dinner will be held on Thursday 12 May. It is necessary for delegates to pre-register for the Networking Reception and Conference Dinner.

Cyber Café

IST-Africa 2011 delegates may avail of the Internet and printing facilities provided by the **IST-Africa** Cyber Café. Make last minute changes to your conference presentation, follow up immediately on business, research and cooperation opportunities identified through networking at the conference, and keep in touch with the office, family and friends.

Conference Proceedings

The **IST-Africa 2011** conference proceedings will be published on CD-ROM and on the Conference Portal. Each delegate will receive a free copy of the

conference proceedings at Registration.

Following the conference, registered delegates will have access to all PowerPoint presentations, which will be published on the Conference Portal.

Security, Health and Safety

Please wear your name badge for all **IST-Africa** activities, as it is your identification and allows you access to the facilities on offer. While the conference area is on a secure site and not open to the general public, it is still necessary to take care of bags, personal computers and other personal belongings.

While security staff will be present at the conference venue, the organisers cannot accept any responsibility for losses incurred or for personal health and safety. Delegates should ensure that they have personal health insurance and take due care when exploring the city of Durban. Any special needs or requirements should be notified to the Conference Secretariat as far in advance of the event as possible.

Hotel Accommodation

Conference rates have been negotiated for delegates and accompanying persons at Walmont Hotel and Metcourt Inn, which are beside the Gaborone International Convention Centre in the Grand Palm Resort. The Grand Palm is located 30 minutes drive from the city centre.

Conference hotel accommodation should be booked online on the **IST-Africa** Conference portal as part of conference registration.

Delegates are strongly recommended to book their accommodation early as it will be allocated on a first-come, first-served basis. Hotel accommodation can only be confirmed upon receipt of the associated payment. For further information, please visit:

www.IST-Africa.org/Conference2011

How to get there

Gaborone is located one hour by air from Johannesburg. Delegates are advised to book flights and accommodation as early as possible.

Sponsors

IST-Africa 2011 offers a variety of Sponsorship Opportunities to enhance your organisation's image & standing with the international IST research community. Prominent notice will be given to sponsors on the conference portal, in the Exhibition area and in press releases, together with other benefits and promotional opportunities.

IST-Africa 2011 is hosted by the Government of Botswana through the Department of Research Science and Technology. Major sponsors confirmed to date include MASCOM, Botswana Post and CISCO.

Plenary Session Speakers



Hon. Jonie K. Swartz
Minister of Infrastructure,
Science and Technology



Hon. Frank Ramsden
Ministry of Transport and
Communication



Dr Ahmed Hamdy
Deputy Director
HRST, AUC



Zoran Stancic
DG Information Society
and Media, EC



Prof Luis Magalhaes
President UMIC
Portugal



Jose Vieira Couceiro
CEO, Mascom
Botswana

Keynote Speakers confirmed as at 22 April 2011 include:

- **Honourable Jonie K. Swartz**, Minister of Infrastructure, Science and Technology, Botswana
- **Honourable Frank Ramsden**, Minister of Transport and Communication, Botswana
- **Honourable Prof Makame Mbarawa**, Minister of Communications, Science and Technology, Tanzania (tbc)
- **Mr Nkatla C. Morupisi**, Permanent Secretary, Ministry of Infrastructure Science and Technology
- **Mr Mabua L. Mabua**, Permanent Secretary, Ministry of Transport and Communication
- **Dr Ahmed Hamdy**, Deputy Director, HRST, African Union Commission
- **Mr Zoran Stancic**, Deputy DG, DG Information Society and Media, European Commission
- **Prof Luis Magalhaes**, President, UMIC, Portugal, European Chair of the Africa-EU 8th Partnership
- **Dr Rached Hamza**, General Manager, CERT, Tunisia, African Chair of the Africa-EU 8th Partnership (tbc)
- **Dr Hannes Toivanen**, VTT, Finland, European Co-Chair Information Society, Africa-EU 8th Partnership
- **Dr Tomaz Augusto Salomao**, Executive Secretary, SADC (tbc)
- **Mr Ilari Lindy**, Global Information & Communication Technologies, The World Bank Group
- **Mr. Jose Vieira Couceiro**, Chief Executive Officer, Mascom, Botswana
- **Senior Representative**, Botswana Post (tbc)
- **Mr Thierry Devars**, DG Information Society and Media, European Commission
- **Ms Fadila Boughanemi**, International Relations, DG Research, European Commission
- **Ms Ana das Neves**, UMIC, Ministry of Science, Technology and Higher Education, Portugal
- **Senior Representative**, Botswana Innovation Hub (tbc)

International Programme Committee

A distinguished Programme Committee has been formed to review and provide feedback on papers and presentations, and chair sessions.

The **IST-Africa 2011** International Programme Committee includes

- **Paul Cunningham**, IIMC, Ireland (Conference Chair)
- **Professor George O. Anderson**, Electrical Engineering Department, University of Botswana
- **Prof. Jørn Braa**, Oslo University Norway
- **Dr Bruce Becker**, Meraka Institute, CSIR / South Africa National Grid, South Africa
- **Dr. Joseph Chuma**, University of Botswana
- **Laurens Cloete**, Meraka Institute, South Africa
- **Miriam Cunningham**, IIMC, Ireland
- **Kim Davis**, Research Council of Norway
- **Giorgio Da Bormida**, ELGI, Italy
- **Prof. Love Ekenberg**, University of Stockholm, Sweden
- **Dr. Mike Joy**, University of Warwick, UK
- **Prof. Bernhard Katzy**, CeTIM, Germany
- **Vasilis Koulolias**, Gov2U, Greece
- **Kristiina Lahde**, SAFIPA Programme, South Africa
- **Ilari Lindy**, World Bank
- **Gareth MacNaughton**, CISCO, UK
- **Dr. Sheddan Masupe**, University of Botswana
- **Prof. Maurice Mars**, University of KwaZulu-Natal, South Africa
- **Loi Namugenyi**, Uganda National Council for Science & Technology, Uganda
- **Dr Sue Pendell**, Colorado State University, United States
- **Maggy Pézeril**, Pôle Universitaire Européen, France
- **Matti Sinko**, Helsinki University of Technology/UNECA
- **Bernard Stevenot**, SpaceBel, Belgium

- **Richard Stevens**, Italy
- **Prof. Erkki Sutinen**, University of Joensuu, Finland
- **Daan du Toit**, Senior Science and Technology Representative in Europe, Department of Science & Technology, South Africa
- **Darelle van Greunen**, Nelson Mandela Metropolitan University, South Africa

Organising Committee

- **Miriam Cunningham**, IIMC, Ireland
- **Paul Cunningham**, IIMC, Ireland
- **Lesego M. Motoma**, Department of Research, Science and Technology, Botswana
- **Oabona C. Monngakgotla**, Department of Research, Science and Technology, Botswana



Conference Secretariat

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Wednesday, May 11, 2011

08:00

Registration

09:00

Opening Plenary 1a

Welcome Remarks

Nkatla C. Morupisi, Permanent Secretary, Ministry of Infrastructure Science and Technology

Official Opening Speech

Honourable Jonie K. Swartz, Minister of Infrastructure Science and Technology, Botswana

AUC Address

Dr Ahmed Hamdy, Deputy Director, HRST, African Union Commission

8th Africa-EU Strategic Partnership (Science, Information Society, Space)

Prof Luis Magalhães, President, UMIC, Portugal, European Chair of the Africa-EU 8th Partnership

10:30 Coffee Break

Exhibition & Networking

11:00 **Plenary 2a: High-level Round Table on the Implementation of the Africa-EU Partnership on Science, Information Society and Space**

Moderator: [Paul Cunningham, IIMC, Ireland](#)

Keynote Address

Mr Zoran Stancic, Deputy DG, DG Information Society and Media, European Commission

Panel Participants include:

Honourable Prof Makame Mbarawa, Minister of Communications, Science and Technology, Tanzania (tbc)

Mr Nkatla C. Morupisi, Permanent Secretary, Ministry of Infrastructure Science and Technology

Mr Mabua L. Mabua, Permanent Secretary, Ministry of Transport and Communication

Dr Ahmed Hamdy, Deputy Director, HRST, African Union Commission

Mr Zoran Stancic, Deputy DG, DG Information Society and Media, European Commission

Prof Luis Magalhães, President, UMIC, Portugal, European Chair of the Africa-EU 8th Partnership

Dr Rached Hamza, General Manager, CERT, Tunisia, African Chair of the Africa-EU 8th Partnership (tbc)

Dr Hannes Toivanen, VTT, Finland, European Co-Chair Information Society, Africa-EU 8th Partnership

Dr Tomaz Augusto Salomão, Executive Secretary, SADC (tbc)

Mr Ilari Lindy, Senior ICT Policy Specialist (Innovation), Global Information & Communication Technologies, The World Bank Group

Mr. Jose Vieira Couceiro, Chief Executive Officer, Mascom, Botswana Senior Representative, Botswana Post (tbc)

12:30 Lunch

Exhibition & Networking

14:00 Session 3a

eInfrastructures

Chair: [Joseph Chuma, University of Botswana](#)

Capacity Building for HPC Infrastructure Setup in Africa: The ICTP Experience

Sebsibe Hailemariam Dadi, Addis Ababa University, Ethiopia

Seven Characteristics of a Successful Virtual Volunteering Platform

Laurie Butgereit, Meraka Institute, South Africa

Critical Infrastructure Security Modelling and RESCI-MONITOR: A Risk Based Critical Infrastructure Model

Thomas Schaberreiter, Centre de Recherche Public Henri Tudor, Luxembourg

The Corporate Incident Response Framework (CIRF)

Theron Pieterse, University of Johannesburg, South Africa

14:00 Session 3b **8th Africa-EU Partnership - Information Society Implementation Group I**

Chair: *tbc*

Introductory Remarks - Objectives**Implementation status of the Action Plan 2008-2010 Flagship Initiatives****Objectives of the Action plan 2011-2013****Financial Resources Mobilization**

- European Development Fund

- EU-Africa Infrastructures Trust Fund

- National Funding / Financial Institutions

- Innovative funding mechanism: World Bank e-transformation Trust Fund

14:00 Workshop 3c

African IPv6 Deployment Roadmap

Chair: [Latif Ladid, IPv6 Forum & Jacques Babot, European Commission](#)

Action Plan for the deployment of Internet Protocol version 6 (IPv6) in Africa

Panel includes:

Latif Ladid, President, IPv6 Forum

Jacques Babot, European Commission

Adiel Akplogan, CEO, AFRINIC

IPv6 Deployment

Olivier Du Pont, CISCO, France

14:00 Session 3d

Digital Libraries and Intelligent Content

Chair: [Sue Pendell, Colorado State University, United States](#)

University Research Funding and Information Management System - Improving and Enhancing Research at University of Botswana

Clement Matasane, University of Botswana

Instrumenting and Monitoring the LarKC Research Infrastructure

Ioan Toma, University of Innsbruck, Austria

Design of Workflow Management system for Department of Information Services

Kebyone Timpa, Botswana Government

14:00 Workshop 3e

Living Labs - Experiences from ENOLL

Chair: [Alvaro Olivier, ENOLL/Alfamicro Lda, Portugal](#)

Presenters will be confirmed during April

14:00 Session 3f

eGovernment - Issues and Case Studies

Chair: [Vasilis Koulolias, Gov2U, Greece](#)

Challenges of eGovernment in African Countries: Creating an Enabling Environment in Nigeria

Rudrappan Dhamodharam, Covenant University, Nigeria

Developing a Model for Information Society and Development at a Provincial Level in South Africa

Rodwyn Grewan, Provincial Information Society Strategy Programme, South Africa

The Analogy of Data within eGovernment Interoperable Ecosystem (AD-eGIE): Utilising Sectorial Information

Jameson Mbale, University of Namibia, Namibia

Semantic-Driven eGovernment: A Case Study of Formal Representation of Government Domain Ontology

Jean Vincent Fonou Dombeu, Vaal University of Technology, South Africa

Lessons from Monitoring and Assessing EC-funded eParticipation Projects: Citizen Engagement and Participation Impact

Melanie Bicking, University of Koblenz-Landau, Germany

15:30 Coffee Break

Exhibition & Networking

16:00 Workshop 4a [The Brain Gain Initiative – Next Steps towards an African e-Infrastructure for Education and Research](#)

Chair: [Luc Rukingama, UNESCO Office in Harare, Zimbabwe](#)

Introduction

Luc Rukingama, UNESCO Office in Harare, Zimbabwe

UNESCO/HP Brain Gain Initiative – Looking Ahead: Beyond UNESCO/HP Funding

Marc Bellon, UNESCO/HP Brain Gain Initiative, France

Grid Computing as a Driving Force for E-learning and Open Education Resources in Africa

Simon Karume, Masinde Muliro University of Science and Technology, Kenya

Brain Gain and Brain Circulation in Africa: Challenges and Opportunities

Achuo Enow, International Council for Science, Regional Office for Africa, South Africa

The South African National Grid: Blueprint, Impact and Perspectives for African Research

Bruce Becker, Meraka Institute, CSIR, South Africa

CHAIN and EPIKH: Policy and Training Coordination in Grid Infrastructures

Valeria Ardizzone, Istituto Nazionale di Fisica Nucleare Sez. Catania, Italy

16:00 Session 4b [8th Africa-EU Partnership - Information Society Implementation Group II](#)

Chair: [tbc](#)

Action Plan 2011-2013 Implementation Roadmap

- Support to ICT policy and Regulatory Reforms / Scaling-up the HIPSSA Initiative

African RECs: Report on ICT Regional Initiatives and Strategies

16:00 Session 4c

[Mobile Applications](#)

Chair: [Laurens Cloete, Meraka Institute, South Africa](#)

Dynamic Spectrum Allocation in Multiuser Wireless Networks

Paul Bogere, Makerere University/ Community Wireless Resource Centre, Uganda

Crest Factor Reduction of an OFDM/WiMAX Network

Sheila Mugala, Makerere University, Uganda

European Geostationary Navigation Overlay Service (EGNOS)

Dimov Stojce Ilcev, Durban University of Technology, South Africa

16:00 Session 4d [Open Source Software - Applications and Case Studies](#)

Chair: [Maxwell Otim, Uganda National Council for Science and Technology](#)

An e-Government Application using Open Source Software

Marco Guerrini, Sogei S.p.A., Italy

UNAM Event Notification System

Ashraf Ghania, University of Namibia, Namibia

Importance of Open Source Software for Development of ICT in Burundi

Melchisedec Nduwayo, Martin Luther King University, Burundi

16:00 Session 4e

[Living Labs - Case Studies](#)

Chair: [Kristiina Lahde, SAFIPA Programme, South Africa](#)

Living Lab: A potential change catalyst for development in Nongoma

Murimo Bethel Mutanga, University of Zululand, South Africa

Deploying Mobile Rural Living Lab in Nongoma

Zamandela Ndlela, University of Zululand, South Africa

Stimulating Development Through Transnational Living Labs: the Italo-Mozambican Vision

Aaron Ciaghi, Fondazione Bruno Kessler, Italy

Formalising Living Labs to Achieve Organisational Objectives in Emerging Economies

Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

Towards a Mobile e-Procurement System for Small Scale Retailers in Rural South Africa

Winnie Kandie, SAP Research CEC Pretoria, South Africa

16:00 Session 4f

[eGovernment Developments in East Africa](#)

Chair: [Enock Mpenzwa, Tanzania Commission for Science and Technology](#)

Implementing e-Government Services: Opportunities and Challenges for Tanzania

George S. Oreku, TIRDO, United Republic of Tanzania

Assessment of Public Services eGovernment Initiatives: A Case Study of Tanzania

Grace Mbwete, Open University of Tanzania, United Republic of Tanzania

eGovernment for Development: Implementation Challenges of Uganda's National Backbone Infrastructure Project and Key Lessons

Justine Ssempebwa, Ministry of Finance, Planning and Economic Development, Uganda

Proposed ICT-Enabled Services Model for Local Authorities in Kenya

Dennis Ochieng', Moi University, Kenya

17:30 End of Parallel Sessions

18:00 Networking Reception



Thursday,
May 12, 2011

09:00 Workshop 5a **African REN I: Setting the Stage – the State of Research and Education Networking**

Chairs: **Hamdy Ahmed, AAU**

Situational Briefing Session to set the stage: What is happening in Africa (focus on progress during the last 12 months)? What are the major initiatives that are promoting REN activities in Africa while building global linkages (scope and status)?

Association of African Universities

Boubakar Barry, AAU

UbuntuNet Alliance

Francis Tusubia, UbuntuNet Alliance, Uganda

WACREN

Nii Quaynor

ASREN

tbd

AfricaConnect

Catherin Stover, DANTE, UK

World Bank supported Initiatives

tbd

Collaboration without Frontiers

Axel Clauberg, Cisco Systems, Germany

09:00 Workshop 5b **8th Africa-EU Partnership - Information Society Implementation Group III**

Chair: **tbc**

Action Plan 2011-2013 Implementation Roadmap

- **Public-private Partnerships; Interaction with the EU-Africa Business Forum**

- **Sharing of ICT Best Practices; Stocktaking of Successful Deployments**

09:00 Workshop 5c **First IFIP TC 9/TC 11 Southern African Cyber Security Awareness Workshop - SACSAP 2011 - Cyber Security Policy Development**

Chair: **Basie von Solms, University of Johannesburg, South Africa**

Welcome Address

Dr. Jackie Phahlamohlaka

Opening Address

Basie von Solms, University of Johannesburg, South Africa

A Framework for an African Policy Towards Creating Cyber Security Awareness

Innocentia Dlamini, CSIR, South Africa

A Cyber Security Awareness Toolkit for National Security: An Approach to South Africa's Cyber Security Policy Implementation

Jackie Phahlamohlaka, CSIR, South Africa

09:00 Workshop 5d

mHealth in Botswana

Chair: **Faisal M. Fadlelmola, University of Botswana**

mHealth in Botswana Welcome & Introduction

Ryan Littman-Quinn

Specialist Access

Ryan Littman-Quinn, Botswana-UPenn Partnership & Dr. Neo Mohutsiwa, Princess Marina Hospital

Public Health and Epidemiology

Allison Tatarsky, Clinton Health Access Initiative, Dr. Simon Chihanga, Botswana Ministry of Health, and Lesedi Bewlay, Positive Innovation for the Next Generation

Patient-centered SMS Services

Katy Digovich, Positive Innovation for the Next Generation and Lesedi Bewlay, Positive Innovation for the Next Generation

Conclusion and General Discussion

Ryan Littman-Quinn, Botswana-UPenn Partnership

09:00 Session 5e

Technology Enhanced Learning & ICT Skills

Chair: **Love Ekenberg, University of Stockholm, Sweden**

An Analysis of the State and Prospects of e-Learning in Developing Countries

Matti Tedre, Tumaini University, United Republic of Tanzania

Maximising Return on Investment in ICT Training - An African Perspective

Peter Denny, University of Kwazulu Natal, South Africa

The Perception of the Role of IS in an Emerging Country: The Case of Botswana

Yirsaw Ayalew Ayalew, University of Botswana

Sudanese Tertiary Education and Documentary Labour Market

Rafaa Ashamalla Ghobrial, Ministry of Science & Technology, Sudan

Impacts of ICT on Learners and the Learning Process in Selected Cameroonian Secondary Schools

Mbangwana Moses Atezah, Educational Research Network for West and Central Africa, Mali

09:00 Workshop 5f

Africa4All – Leveraging ICT in African Parliaments

Chair: **Vasilis Koulolias, Gov2u, Greece**

Africa4All Parliamentary Initiative

Vasilis Koulolias, Gov2u, Greece

Demonstrations

10:30 Coffee Break

11:00 Workshop 6a **African REN II: Creating Synergy among the Initiatives Supporting research and Education Networking in Africa**

Chair: **Steve Song, Shuttleworth Foundation**

Moderated Panel Discussion Focused on Presentation of Activities Being Undertaken and Opportunities for Synergy

EUC

tbc

World Bank Initiatives

Peter Materu (tbc)

USAID

tbd

NUFFIC

tbd

NSF

Kevin L Thompson (tbc)

American Foundations

Andrea Johnson, Carnegie Corporation of New York

IDRC

Khaled Fourati

11:00 Session 6b

8th Africa-EU Partnership - Information Society Implementation Group IV

Chair: **tbc**

Action Plan 2011-2013 Implementation Roadmap

- e-Skills, Digital Literacy Programmes + Scaling-up the ALICT Programme

- Promotion of Digital Content

11:00 Workshop 6c

SACSAP 2011- Cyber Security Educational Schemes

Chair: **Marthie Grobler, CSIR, South Africa**

The South African Cyber Security Awareness Month (SACSAM)

Basie von Solms, University of Johannesburg, South Africa

A Cyber Security Curriculum for South African Schools

Mariska de Lange & Rossouw von Solms, NMMU, South Africa

A Cyber Security Portal for South Africa

Johan van Niekerk & Rossouw von Solms, NMMU, South Africa

11:00 Session 6d [eHealth - Issues and Applications](#)

Chair: [Maurice Mars, University of KwaZulu-Natal, South Africa](#)

Survey on Local Software Development for eGovernment of Uganda focused on eHealth Applications

Nabbanja Teddy, Kampala International University, Uganda

Federated EHR: How to Improve Data Quality Maintaining Privacy

Annamaria Chiasera, GPI - IT for Welfare, Italy

Automating Remote Monitoring and Information Therapy: An Opportunity to Practicing Telemedicine in Developing Countries

Juha Puustjärvi, Helsinki University of Technology, Finland

Development of a Communication Architecture for eHealth Service Delivery to Rural Communities in Developing Countries

Francis Idachaba, Covenant University Ota, Nigeria

11:00 Session 6e [Technology Enhanced Learning and ICT Skills II](#)

Chair: [tbc](#)

Stop Words for "Dr Math"

Laurie Butgereit, Meraka Institute, South Africa

Assessing the Use of Blackboard for Course Delivery in an Engineering Programme

Tunde Oladiran, University of Botswana

MERLINGO - the Adaptation and Accessible Distribution of Study Materials on the basis of Rich-media for the Support of the Learning Process in Students with Special Needs

Ivo Martinik, Technical University of Ostrava, Czech Republic

Exposing Knowledge in Speech: Monitoring Conceptual Development in Spoken Conversation

Ruben Lagatie, Katholieke Universiteit Leuven, Belgium

Use of ICTs for Educational Inclusion of the Mbororos in Higher Education in Cameroon

Yeba Judith Sama Mouokuio Meno, Educational Research Network for West and Central Africa, Cameroon

11:00 Session 6f [ICT for eInclusion and eAccessibility - Case Studies](#)

Chair: [Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa](#)

"SignOn", A Model for Teaching Written Language to Deaf People

Franz Dotter, University of Klagenfurt, Austria

Challenges and Solutions Towards Telecentre Sustainability: A Southern Africa Case Study

Mbuyu Sumbwanyambe, University of Johannesburg, South Africa

What IT Professionals Should Know About IT Work in Developing Countries

Matti Tedre, Tumaini University, United Republic of Tanzania

12:30 Lunch

14:00 Workshop 7a [African REN III: Creating and Strengthening Global Strategic Alliances](#)

Chair: [tbc](#)

Presentations will Focus on Opportunities for Working with Emerging African Regional RENs

GEANT

[tbc](#)

CLARA

[tbc](#)

TEIN3

[Byung-Kyu Kim](#)

IPv6 Labs and Test Centers in Africa

[Olivier DUPONT, CISCO, France](#)

Other initiatives funded through DG AidCo that have strategic importance

14:00 Session 7b [8th Africa-EU Partnership - Information Society Implementation Group V](#)

Chair: [tbc](#)

Action Plan 2011-2013 Implementation Roadmap

- Public-private Partnerships; Interaction with the EU-Africa Business Forum

- Sharing of ICT Best Practices; Stocktaking of Successful Deployments

14:00 Workshop 7c [SACSAW 2011 - Practical Cyber Security Awareness Initiatives](#)

Chair: [Rossouw Von Solms, Nelson Mandela Metropolitan University, South Africa](#)

Cyber Awareness Initiatives in South Africa: A National Perspective

[Marthie Grobler, CSIR, South Africa](#)

A Framework to Implement a National Cyber Security Structure for Developing Nations

[Ian Ellefsen, University of Johannesburg, South Africa](#)

Design of a Cyber Security Awareness Campaign for Internet Cafe Users in Rural Areas

[W.A. Labuschagne, CSIR, South Africa](#)

14:00 Session 7d [eHealth - Issues and Applications II](#)

Chair: [Sheddan Masupe, University of Botswana](#)

A Framework for Cell Phone Based Diagnosis and Management of Priority Tropical Diseases

[Faith-Michael Uzoka, Mount Royal University, Calgary, Canada](#)

Cost Benefit of Using the SIMpill Electronic Treatment Adherence System to Support Tuberculosis Patients

[Sean Broomhead, Greenfield Management Solutions, South Africa](#)

eHealth for Developing Countries – Sustainable Strategies

[Tom Jones, TanJent, United Kingdom](#)

VITA: A Paperless Hospital Suite

[James Katende, Botswana International University of Science & Technology](#)

14:00 Session 7e [Technology Enhanced Learning and ICT Skills in East Africa](#)

Chair: [Almany Konte, Ministère de l'Enseignement Supérieur et de la Recherche Scientifique, Senegal](#)

From Learning Technology to Learning with Technology: e-Learning Resource Centre for Quality Teacher Training in Burundi

[Spès Nibafasha, Ecole Normale Supérieure, Burundi](#)

Inter-University Workshop for the promotion and popularization of ICT in Burundi

[Oscar Irambona, Université Grands Lacs, Burundi](#)

The Integration of eLearning in Burundian Education System for Teaching ICT skills to Rural Marginalized Students

[Hilaire Nkunzimana, Hope Africa University, Burundi](#)

Promoting Widespread Diffusion of ICTs to Speed up Achievements of the MDGs in Africa: a Case for the MDG 2 in Uganda

[Wilson Okaka, Kyambogo University, Uganda](#)

Bagamoyo Caravan: Pervasive Learning Game for a Tanzanian museum

[Teemu H. Laine, University of Eastern Finland, Finland](#)

14:00 Session 7f [ICT for eInclusion and eAccessibility - Case Studies](#)

Chair: [Kim Davis, Research Council of Norway](#)

The Socio-economic Landscape of a Rural Community – A View of Rietfontein

[Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa](#)

The Potential of ICTs to emPower Rural Women

[Meera Joseph, University of Johannesburg, South Africa](#)

Mobi-Incubation User Experience for Rural Entrepreneurs in Emerging Economies

[Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa](#)

15:30 Coffee Break

16:00 Workshop 8a [African REN IV: Applications and Discussion](#)

Chair: [tbc](#)

Part 1: Usage of ICT Infrastructure for Intra-African and Global Research Cooperation and Applications

Part 2: Roundtable Discussion: What have we learnt and what shall we therefore do?

Presenters will be confirmed during February

16:00 Session 8b **8th Africa-EU Partnership - Information Society Implementation Group VI**

Chair: **tbc**

Action Plan 2011-2013 Implementation Roadmap
- Research and Education Networking / AfricaConnect

List of Actions - Next Steps

16:00 Workshop 8c **SACSAW 2011 - Cyber Security Designs**

Chair: **Joey Jansen van Vuuren**

A Framework for Implementing a Cyber Security Awareness Programme for Internet Users

E. Kritzinger & E. Smith, UNISA, South Africa

The Cyber Security Awareness Workbook

E. Kritzinger, UNISA, South Africa

Discussion Panel

16:00 Session 8d **eHealth - Case Studies**

Chair: **Richard Stevens, Italy**

The Design, Implementation and Evaluation of Computerized Clinic Patient Management and Clinician Order Entry Systems in a PMTCT Clinic in Uganda

Michael Kavuma, Management Sciences for Health, Uganda

Health Information Systems Integration in Tanzania: Tapping the Contextual Advantages

Masoud Mahundi, University of Dar es Salaam, United Republic of Tanzania

Evaluating ICT Potential for Improving Health Information Quality in Africa

Kseniya Khovanova-Rubicondo, Ashburn Institute, Ukraine

16:00 Session 8e **Technology Enhanced Learning and ICT Skills IV**

Chair: **Loi Mirembe Namugenyi, Uganda National Council for Science & Technology**

tactusLogic: Programming Using Physical Objects

Andrew Cyrus Smith, CSIR Meraka Institute, South Africa

An Intelligent Fractions Learning System: Implementation

Andrew Cyrus Smith, CSIR Meraka Institute, South Africa

Technology enhanced distance learning: designing with

Gomang Seratwa Ntloedibe-Kuswani, University of Botswana

Case Study of how Limkokwing University Implements Technology Enhanced Learning

Tapson Mlambo, Limkokwing University of Creative Technology, Botswana

ICT Use by Students of the Higher Teachers Training College

Yaounde: are there Gender Differences?

Ndangle Claire Nkehsera Massano, Educational Research Network Cameroon, Cameroon

16:00 Session 8f **ICT for eInclusion and eAccessibility - Issues**

Chair: **Raphael Mmasi, COSTECH, Tanzania**

Achieving eInclusion: How can Digital Agenda for Europe Work For Africa?

Daniel Palmer, ECDL Foundation, Singapore

AAL for Supporting Elderly

Matjaz Gams, Jozef Stefan Institute, Slovenia

Admixture Practises in South African Languages: Impact on Speech-enabled Technology Design

Tembaletu Ndwe, University of Cape Town, South Africa

17:30 End of Parallel Sessions





Friday,
May 13, 2011

09:00 Workshop 9a **eInfrastructures and the Sensor Web for Earth Observation and Simulation**

Chair: **Ingo Simonis, OGC-Europe & Anwar Vahed, Meraka Institute, CSIR, South Africa**

OpenSensors: A Community Platform to Enable the Sensor Web and Foster Earth Observation Research

Stefanie Andrae, Carinthia University of Applied Sciences, Austria

Earth Observation and Environmental Modelling for the Mitigation of Health Risks such as Cholera, Cardio-Vascular and Respiratory Diseases

Ingo Simonis, Meraka, Germany

eInfrastructures for Disaster Risk Assessment

Anwar Vahed, Meraka Institute, CSIR, South Africa

Illustrating the Role of e-Infrastructures when Studying Cholera Dynamics

Marna van der Merwe, CSIR, South Africa

Massive Climate Data Sets in eInfrastructures

Francois Engelbrecht, CSIR, South Africa

Sensor Web

Simon Jirka, 52north, Germany

09:00 Workshop 9b **IST-Africa - Linking European & African Researchers**

Chair: **Paul Cunningham, IIMC, Ireland**

EU - Africa Research Cooperation Opportunities

Kostas Glinos, European Commission, Belgium

ICT Initiatives and Research Capacity in Botswana

Oabona Monngakgotla, Ministry of Infrastructure, Science and Technology, Botswana

ICT Initiatives and Research Capacity in Mauritius

Dan Faugoo, National Computer Board, Mauritius

ICT Initiatives and Research Capacity in Mozambique

Zauria Saifodine, National Institute for ICT, Mozambique

ICT Initiatives and Research Capacity in Namibia

Florence Kvirindi, Ministry of Education, Namibia

ICT Initiatives and Research Capacity in Lesotho

Lefa Thamae, Department of Science and Technology, Lesotho

ICT Initiatives and Research Capacity in South Africa

Itumeleng Phogoane, Department of Science & Technology, South Africa

11:00 Workshop 9c **Networked Enterprises: Potential and Opportunities for Businesses in Africa**

Chair: **Man-Sze Li, IC Focus, UK & Markus Eisenhauer, Fraunhofer Institute for Applied Information Technology, Germany**

The Evolution and Key Findings of Networked Enterprises in European Research

Man-Sze Li, IC Focus, UK

Business Model Developments and Innovations

Jacob Ravn, Aalborg University, Denmark (tbc)

Networked Enterprises: A Case Study in Regional Healthcare

Andrew Faughy, VEN Process Ltd, UK

Enterprise Systems in the Internet of Things

Markus Eisenhauer, Fraunhofer Institute for applied Information Technology, Germany

Discussion - Networked Enterprises: relevance and opportunity for Africa

Apps for the Other Billions: new demands for a new cause?

Dissemination, autonomy and ownership of knowledge and technologies for businesses

Leveraging Networked Enterprises research to support businesses in Africa

Potential areas of joint research interest between EU and Africa

09:00 Session 9d **Rural Innovation Systems**

Chair: **Eric Mwangi, Ministry of Higher Education, Science & Technology, Kenya**

Mobile Banking as a Means to Provide Access to Financial Services

Jose Luis Gyme Barroso, UNED, Spain

Vision of the Farm of Tomorrow

Karel Charvat, Ceske centrum pro vedu a spolecnost, Czech Republic

VLITE NODE – Solution for Precision Farming

Karel Charvat, Ceske centrum pro vedu a spolecnost, Czech Republic

09:00 Session 9e **Transformation of Research Results into Local Innovation**

Chair: **Kim Davis, Research Council of Norway**

Voices: Voice-based ICT Services for Underprivileged Communities

Stephane Boyera, W3C, France

Building Participatory Geographic Information system to Support Community Initiated Local Livelihoods

Mulalu Mulalu, University of Botswana

Designing Pilot Micro Finance Information Dissemination Centres for the Eastern Cape: A process report

Annatjie Erasmus, AWE Business Process Engineering, South Africa

Crucial Considerations in One-to-One Computing in Developing Countries

Matti Tedre, Tumaini University, United Republic of Tanzania

10:30 Coffee Break

11:00 Session 10e **Cloud Computing**

Chair: **tbc**

Cloud Computing as an Emerging Technology and its Associated Ethical Issues: Lessons that can be shared between Europe and Africa

Kutoma J. Wakunuma, De Montfort University, United Kingdom

Improving the Capacity, Reliability & Life of Mobile Devices with Cloud Computing

Fisseha Mekuria, CSIR, South Africa

A Case Analysis of Factors Affecting the Adoption of Grid Technology by Universities

Faith-Michael Uzoka, Mount Royal University, Calgary, Canada, Canada

A Web-Portal for Accessing Services by SMMEs in South Africa: A Mashup Prototype

Ernest Ketcha Ngassam, SAP Meraka, South Africa

11:00 Session 10b **ST-Africa - Linking European & African Researchers**

Chair: **Paul Cunningham, IIMC, Ireland**

ICT Initiatives and Research Capacity in Egypt

Inas Fateem, Ministry of Communications & IT, Egypt

ICT Initiatives and Research Capacity in Senegal

Almany Konte, Ministère de l'Enseignement Supérieur, des Universités et des Centres Universitaires Régionaux et de la Recherche Scientifique, Senegal

ICT Initiatives and Research Capacity in Cameroon

Njei Check, National Agency for Information and Communication Technologies, Cameroon

ICT Initiatives and Research Capacity in Kenya

Jacob Njagi, Ministry of Higher Education, Science and Technology, Kenya

ICT Initiatives and Research Capacity in Burundi

Augustin Nsabayumva, Ministry of Higher Education and Scientific Research, Burundi

ICT Initiatives and Research Capacity in Tanzania

Raphael Mmasi, COSTECH, United Republic of Tanzania

ICT Initiatives and Research Capacity in Uganda

Loi Mirembe Namugenyi, Uganda National Council for Science & Technology

EuroAfrica-ICT - Preliminary Results from ICT Research Priorities Study

Karine Valin, Sigma Orionis, France

09:00 Session 10c **RFID and Networked Enterprise**Chair: **Laurens Cloete, Meraka Institute, South Africa****The Internet of Things – Promise for the future? An Introduction**

Louis Coetzee, Meraka Institute, CSIR, South Africa

Beachcomber: Linking the “Internet of Things” to the “Internet of People”

Laurie Butgereit, Meraka Institute, South Africa

Usage of Social Networks Marketing by Small and Medium-Scale Enterprises in South Africa: A Review of some SMEs in Cape Town

Mayowa Muleru, Cape Peninsula University of Technology, South Africa

11:00 Session 10d **ICT for Environmental Risk Management**Chair: **Bernard Stevenot, SpaceBel, Belgium****The Development and Implementation of eLog Technology for the Local and International Fishing Industry**

Amos Barkai, Olrac, South Africa

Social Space for Geospatial Information

Premysl Vohnout, Wirelessinfo, Czech Republic

ICT for Automated Forecasting of Electrical Power**Consumption: A Case Study in Maputo**

Constantino Sotomane, Stockholm University, Sweden

11:00 Session 10e **Technology Transfer**Chair: **Kristiina Lahde, SAFIPA Programme, South Africa****Challenges in transferring European business and technology models to the developing Southern African regions**

Margherita Forcolin, Insiel S.p.A., Italy

Possible Use of Semantic Technologies for Development of Advanced e-Services in SADC Region

Borys Czerniejewski, IPM sp. z o.o., Poland

SMS Banking: A Tool for Creating Competitive Advantage to Privately Owned Indigenous Commercial Banks in Zimbabwe

Takura Bhila, Limkokwing University of Creative Technology, Botswana

12:30 Lunch

13:30 Closing Plenary 11

Strengthening African - European Cooperation in ICT and S&T

Thierry Devars, European Commission, Belgium

Strengthening African - European Cooperation in S&T

Fadila Boughanemi, European Commission, Belgium

Title to be confirmed

Ana Cristina Neves, UMIC, Ministry of Science, Technology and Higher Education, Portugal

Additional Plenary speakers will be published during April**Best Paper Award****Best Demonstration Stand Award**

Honourable Jonie K. Swartz, Minister of Infrastructure Science and Technology, Botswana

Formal Closing of Conference

Honourable Frank Ramsden, Minister of Transport and Communication, Botswana

The Programme presented is accurate as at 22 April 2011 and is subject to change without notice at the discretion of the International Programme Committee Chair.

Registration Information

It is necessary for all **IST-Africa 2011** delegates to register online. Each delegate should be registered separately.

Conference Fees

Authors Fees (Due by 04 March)

- Authors - African States (1) €100
- Authors - Botswana (Discounted Fee) € 55
- Authors - EU New Member States (2), EU Candidate Countries (3) and Developing Countries (4) €200
- Authors - All countries except African States (1), EU New Member States (2), Candidate Countries (3) and Developing Countries (4) €300

Please note that the author fee is only available to accepted presenters in the Programme (**one presenter per paper**). Co-authors who wish to participate should register as Delegates.

Delegates' Fees - Early Bird (Due by 14 March)

- Early Bird - African States (1) €200
- Early Bird - Botswana (Discounted Fee) € 55
- Early Bird - EU New Member States (2), EU Candidate Countries (3) and Developing Countries (4) €300
- Early Bird - All countries except African States (1), EU New Member States (2), Candidate Countries (3) and Developing Countries (4) €400

Delegates' Fees - Full Fee from 15 March

- Delegate Full Price - African States (1) €250
- Delegate - Botswana (Discounted Fee) € 55
- Delegate Full Price - EU New Member States (2), EU Candidate Countries (3) and Developing Countries (4) €400
- Delegate Full Price - All countries except African States (1), EU New Member States (2), Candidate Countries (3) and Developing Countries (4) €500

The Conference Fee includes:

- Entrance to all plenary and parallel sessions
- Entrance to Exhibition
- Documentation with proceedings on CD-Rom
- Three luncheons and refreshments at morning and afternoon breaks
- Cocktail Networking Reception
- Cyber Café facilities

African States (1) Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroun, Cape Verde, Central African Republic, Chad, Comoros, Congo (Republic of), Congo (Democratic Republic of), Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea Bissau, Ivory Coast, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome & Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Uganda, Zambia and Zimbabwe.

EU New Member States (2) Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, Slovakia, Slovenia

EU Candidate Countries (3) Croatia, Turkey.

Developing Countries (4) **Asia** (Bangladesh, Bhutan, Brunei, Cambodia, China, India, Indonesia, Laos, Malaysia, Maldives, Mongolia, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Thailand, Vietnam)

Caribbean and Pacific Countries (Antigua and Barbuda,

Islands, East Timor, Federated States of Micronesia, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu)

Latin America (Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, Venezuela)

Mediterranean Partner Countries (Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, Syrian Arab Republic, Tunisia, West Bank & Gaza Strip)

Russia & NIS (Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan)

Western Balkan Countries (Albania, Bosnia-Herzegovina-Croatia, Former Yugoslav Republic of Macedonia, Serbia & Montenegro)

Terms & Conditions

1. All authors who are presenting a paper at **IST-Africa 2011** must complete their payment registration by **04 March** at the latest, prior to publication of the Final Programme.

2. In the case where a paper is jointly authored, the presenter of the paper is considered to be the author/presenter from a payment registration point of view. All co-authors are considered to be delegates.

3. Accepted Exhibitors (other than accepted presenters) must complete payment registration by **end of March**.

4. Delegates' fees must be paid before admission to the Conference and Exhibition.

5. IEEE Members are entitled to apply for a 10% discount on the appropriate fee. Please provide Membership No. as part of online registration and fax a copy of valid Membership card to +353-1-8170606.

6. There are **no refunds for cancellations** but substitutions may be made at any time prior to the event by contacting the Conference Secretariat.

7. Each individual must be registered separately on the IST-Africa Conference portal.

8. Payment may be made by bank transfer or credit card (with some restrictions). Payments made by bank transfer must be **net of any bank charges** and the payment instruction should refer to "IST-Africa 2011 Conference", your name, organisation and invoice number (if relevant).

9. Receipts are automatically issued electronically upon receipt of payment. If your organisation requires an invoice to process payment registration by bank transfer, please contact the Conference Secretariat.

10. Conference registration or hotel accommodation is not confirmed until full payment is received.

11. Letters of invitation can only be issued following delegate registration online and receipt of payment.

12. The registration desk will open on Tuesday 10 May from 16:00 to 19:00 and will remain open during normal conference hours from 08:00 on Wednesday.

Major Places of Interest

Gaborone is the capital of Botswana. While in Gaborone, delegates and accompanying persons should visit the National Museum, National Botanical Gardens, Gaborone Game Reserve, Mokoladi Nature Reserve and Mochudi.

Botswana is renowned for its flora and fauna. Other places in Botswana include Okavango Delta, Chobe River and National Parks.

Climate

The climate in May is clear, warm and sunny with average temperatures of 14 - 25 degrees Celsius. It is cooler in the evening.

Visa Information

Conference delegates should contact the Botswana Embassy in your country of residence six to eight weeks prior to travelling to determine if it is necessary for you to apply for a visa in advance.

Most Commonwealth and SADC countries do not require visas. Certain EU countries also have waived visa rights but it is necessary to check if this applies to you.

If you are travelling through South Africa or another country to get to Gaborone, it is necessary to check if you require transit visas.

The **IST-Africa 2011** Organising Committee can only issue Letters of Invitation for visa purposes to delegates after payment for their conference registration has been received.

Vaccinations

Conference delegates travelling to Africa for the first time are recommended to have up to date Tetanus, Hepatitis A and Typhoid vaccines. It is a good idea to check with your personal physician or travel health clinic four to six weeks prior to travelling, outlining where in South Africa you intend to visit.

IST-Africa Initiative

Regional Impact of Information Society Technologies in Africa ("**IST-Africa**") is a multi-stakeholder initiative focused on raising wider awareness of African research capacity, strengthening the research dimension of Information Society policy dialogues between the European Commission and African countries and key regional organisations, analysing African ICT policy and research priorities, promoting participation of African organizations in the ICT Theme of FP7 and identifying co-operation opportunities in fields of mutual interest. The **IST-Africa Initiative** is supported by the European Commission under FP7-ICT.

IST-Africa is a collaborative initiative between IIMC International Information Management Corporation Limited (Ireland, Coordinator), Department of Science and Technology (South Africa), Ministry of Communications, Science and Technology (Botswana), Ministry of Communications, Science and Technology (Lesotho), Ministry of Education (Namibia), ICT Policy Implementation Technical Unit (Mozambique), National Computer Board (Mauritius), COSTECH - Tanzania Commission for Science and Technology, Uganda National Council for Science and Technology, Ministry of Higher Education, Science and Technology (Kenya), Ministère de l'Enseignement Supérieur et de la Recherche Scientifique (Burundi), Ministry in President's Office in charge of Information and Communication Technology (Rwanda), Agence Nationale des Technologies de l'Information et de la Communication (Cameroon), Ministère de la Recherche Scientifique (Senegal) and Ministry of Communications and Information Technology (Egypt).



Exhibition

IST-Africa 2011 Exhibition showcases applied ICT research results and applications through technology demonstrations and posters, whether funded commercially, or at a national, regional or European level.

Demonstration Stands

Stand Name	Organisation	Country
Government of Botswana	Demonstrations from Ministry of Infrastructure, Science and Technology, Dept of Environment Affairs and Botswana Innovation Hub	Botswana
IST-Africa Initiative	IST-Africa Consortium	
African Union Commission	African Union Commission	
MASCOM	MASCOM	Botswana
Botswana Post	Botswana Post	Botswana
Botswana Technology Centre	Botswana Technology Centre	Botswana
Technology enhanced Learning and ICT Skills for Libraries	Learning & Growth Consultants	Botswana
ITOCA - R4L and TEEAL	ITOCA	South Africa
Geospatial Social Space - 4rh way to SDI	Ceske centrum pro vedu a spolecnost	Czech Republic
Information System for Mozambican Hospitals: SIS-H Project	GPI SpA	Italy

Conference Portal & Delegate Showcase
www.IST-Africa.org/Conference2011

IST-Africa 2011 Additional Supporting Organisations

