IST-Africa 2011
Final Programme
Gaborone, Botswana

11 - 13 May 2011

Supported by

Hosted by

Major Sponsors

Technical Co-Sponsor
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, specifically on Applied ICT research in the areas of eHealth, Technology Enhanced Learning and ICT Skills, Digital Libraries, Technology Transfer, eInclusion/eAccessibility and eGovernment and eDemocracy.

**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.

**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.
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.
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, Permanent Secretary, Ministry of Infrastructure Science and Technology
- Dr Ahmed Hamdy, Permanent Secretary, Ministry of Transport and Communication
- Mr Ncati C. Morupisi, Deputy Director, HRST, African Union Commission
- Mr Mabua L. Mabua, Permanent Secretary, Ministry of Transport and Communication
- Dr Ahmed Hamdy, Deputy Director, HRST, African Union Commission
- Dr. Joseph Chuma, University of Botswana
- Laurens Cloete, Meraka Institute, South Africa
- Miriam Cunningham, IIMC, Ireland
- Prof. Love Ekenberg, University of Stockholm, Sweden
- Dr. Mike Joy, University of Warwick, UK
- Prof. Bernhard Katzy, CeTIM, Germany
- Vasilis Kouliolias, Gov2U, Greece
- Kristiina Lahde, SAFIPA Programme, South Africa
- Ilari Lindy, Global Information & Communication Technologies, The World Bank Group
- 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
- 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

IIMC Ltd
13 Docklands Innovation Park, 128 East Wall Road, Dublin 3, Ireland
Tel: +353 (0) 1 8170607
Fax: +353 (0) 1 8170606
e-mail: secretariat@IST-Africa.org
www.IST-Africa.org/Conference2011
Wednesday, May 11, 2011

08:00 Registration

09:00 Opening Plenary 1a

Welcome Remarks
Nikatia 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 Nikatia 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 Rachad Hamza, General Manager, CERT, Tunisia, African Chair of the Africa-EU 8th Partnership
Dr Hannes Toivanen, VTT, Finland, European Co-Chair Information the Africa-EU 8th Partnership
Mr Mabua L. Mabua, Permanent Secretary, Ministry of Transport and Communication

12:30 Lunch

14:00 Session 3a eInfrastructures
Chair: Joseph Chuma, University of Botswana

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

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 Mataxane, University of Botswana

Instrumenting and Monitoring the LarKC Reasearch Infrastructure
Ioan Toma, University of Innsbruck, Austria

Design of Workflow Management system for Department of Information Services
Kebonye 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 Kouloulias, 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 Mbaile, University of Namibia, Namibia

Semantic-Driven eGovernment: A Case Study of Formal Representation of Government Domain Ontology
Jean Vincent Fonou Dombou, 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
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<th>Time</th>
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<td>15:30</td>
<td>Coffee Break</td>
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<td>16:00</td>
<td>Session 4c Mobile Applications</td>
<td>Laurens Cloete, Meraka Institute, South Africa</td>
<td>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 Stoje Icoev, Durban University of Technology, South Africa</td>
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<td>16:00</td>
<td>Session 4d Open Source Software - Applications and Case Studies</td>
<td>Maxwell Otim, Uganda National Council for Science and Technology</td>
<td>An e-Government Application using Open Source Software Marco Guerrini, Sogei S.p.A., Italy UNAM Event Notification System Ashraf Ghana, University of Namibia, Namibia Importance of Open Source Software for Development of ICT in Burundi Melchisedec Nduwayo, Martin Luther King University, Burundi</td>
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<td>16:00</td>
<td>Session 4e Living Labs - Case Studies</td>
<td>Kristiina Lahde, SAFIPA Programme, South Africa</td>
<td>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 Zamandile 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</td>
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<td>17:30</td>
<td>End of Parallel Sessions</td>
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<td>18:00</td>
<td>Networking Reception</td>
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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 - SACS2011 - Cyber Security Policy Development
Chair: Basie von Solms, University of Johannesburg, South Africa

Welcome Address
Dr. Jackie Pfaahlochaka

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

Jackie Pfaahlochaka, CSIR, South Africa

09:00 Workshop 5d  mHealth in Botswana
Chair: Faisal M. Fadelmola, 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 Tatansky, 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

09:00 Workshop 5e  Africa4All – Leveraging ICT in African Parliaments
Chair: Vasilis Kouliolas, Gov2u, Greece

Africa4All Parliamentary Initiative
Vasilis Kouliolas, 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
tbd

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 Workshop 6c  SACSAW 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 Workshop 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  SACS2011 - Cyber Security Educational Schemes
Chair: Matthie 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
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<tr>
<td>11:00</td>
<td>Session 6d</td>
<td>eHealth - Issues and Applications</td>
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<td>Chair: Maurice Mars</td>
<td>Maurice Mars, University of KwaZulu-Natal, South Africa</td>
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<td>Survey on Local Software</td>
<td>Survey on Local Software Development for eGovernment of Uganda focused on</td>
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<td>Development for eGovernment of Uganda focused on eHealth Applications</td>
<td>Nabanja Teddy, Kampala International University, Uganda</td>
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<td>Federated EHR: How to</td>
<td>Federated EHR: How to Improve Data Quality Maintaining Privacy</td>
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<td>Improve Data Quality</td>
<td>Annamaria Chiasera, GIP - IT for Welfare, Italy</td>
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<td>Maintaining Privacy</td>
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<td>Automation of Remote</td>
<td>Automation of Remote Monitoring and Information Therapy: An Opportunity</td>
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<td>Monitoring and Information</td>
<td>Practicing Telemedicine in Developing Countries</td>
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<td>Therapy: An Opportunity</td>
<td>Juha Puustjärvi, Helsinki University of Technology, Finland</td>
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<td>Practicing Telemedicine</td>
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<td>Communication Architecture</td>
<td>Service Delivery to Rural Communities in Developing Countries</td>
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<td>for eHealth</td>
<td>Francis Idachaba, Covenant University Ota, Nigeria</td>
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<td>11:00</td>
<td>Session 6e</td>
<td>Technology Enhanced Learning and ICT Skills II</td>
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<td>12:30</td>
<td>Lunch</td>
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<td>14:00</td>
<td>Workshop 7a</td>
<td>African REN III: Creating and Strengthening Global Strategic Alliances</td>
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<td>Byung-Kyu Kim</td>
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<td>IPv6 Labs and Test Centers</td>
<td>IPv6 Labs and Test Centers in Africa</td>
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<td>Olivier DUPONT, CISCO, France</td>
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<td>Oher initiatives funded by DG</td>
<td>Oher initiatives funded by DG AidCo that have strategic importance</td>
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<td>14:00</td>
<td>Session 7b</td>
<td>8th Africa-EU Partnership - Information Society Implementation Group V</td>
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<td>Implementation Roadmap</td>
<td>- Public-private Partnerships; Interaction with the EU-Africa Business</td>
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<td>- Public-private</td>
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<td>Partnerships; Interaction</td>
<td>- Sharing of ICT Best Practices; Stocktaking of Successful Deployments</td>
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<td>EU-Africa Business Forum</td>
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<td>Infrastructure for Intra-African and Global Research Cooperation and</td>
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<td>Applications</td>
<td>Part 2: Roundtable Discussion: What have we learnt and what shall we</td>
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<td>14:00</td>
<td>Workshop 7c</td>
<td>SACSJ 2011 - Practical Cyber Security Awareness</td>
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<td>Chair: Rossouw Von Solms</td>
<td>Rossouw Von Solms, Nelson Mandela Metropolitan University, South Africa</td>
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<td>and Accessibility - Case</td>
<td>Cyber Awareness Initiatives in South Africa: A National Perspective</td>
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<td>Studies</td>
<td>Matthi Grobler, CSIR, South Africa</td>
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<td>Cyber Awareness Initiatives</td>
<td>A Framework to Implement a National Cyber Security Structure for Developing</td>
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<td>in South Africa: A National</td>
<td>Nations</td>
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<td>Perspective</td>
<td>Ian Elfers, University of Johannesburg, South Africa</td>
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<td>A Framework to Implement</td>
<td>Design of a Cyber Security Awareness Campaign for Internet Cafe Users in Rural</td>
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<td>Structure for Developing</td>
<td>W.A. Labuschagne, CSIR, South Africa</td>
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<td>14:00</td>
<td>Session 7d</td>
<td>eHealth - Issues and Applications</td>
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<td>Chair: Sheddan Masupe</td>
<td>Sheddan Masupe, University of Botswana</td>
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<td>and Accessibility - Case</td>
<td>A Framework for Cell Phone Based Diagnosis and Management of Priority</td>
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<td>Tropical Diseases</td>
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<td>From Learning Technology</td>
<td>Faith-Michael Uzoka, Mount Royal University, Calgary, Canada</td>
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<td>to Learning with Technology</td>
<td>Cost Benefit of Using the SIMpill Electronic Treatment</td>
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<td>Adherence System to Support Tuberculosis Patients</td>
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<td>Sean Broomhead, Greenfield Management Solutions, South Africa</td>
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<td>From Learning Technology</td>
<td>eHealth for Developing Countries – Sustainable Strategies</td>
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<td>Tom Jones, TanJent, United Kingdom</td>
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<td>VITA: A Paperless Hospital Suite</td>
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<td>James Katende, Botswana International University of Science &amp; Technology</td>
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<td>14:00</td>
<td>Session 7e</td>
<td>Technology Enhanced Learning and ICT Skills in East Africa</td>
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<td>Almany Konte, Ministère de l’Enseignement Supérieur et de la Recherche</td>
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<td>From Learning Technology to Learning with Technology: e-Learning Resource</td>
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<td>Inter-University Workshop for the promotion and popularization of</td>
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<td>Oscar Irmbona, Université Grands Lacs, Burundi</td>
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<td>to Learning with Technology</td>
<td>The Integration of Learning in Burundian Education System for</td>
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<td>Teaching ICT skills to Rural Marginalized Students</td>
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<td>Hilaine Kuzumizana, Hope Africa University, Burundi</td>
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<td>Promoting Widespread Diffusion of ICTs to Speed up Achievements</td>
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<td>of the MDGs in Africa: a Case for the MDG 2 in Uganda</td>
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<td>Bagamoyo Caravan: Pervasive Learning Game for a Tanzanian museum</td>
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<td>eHealth - Issues and Applications</td>
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<td>15:30</td>
<td>Coffee Break</td>
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<td>16:00</td>
<td>Workshop 8a</td>
<td>African REN IV: Applications and Discussion</td>
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<td>Infrastructure for Intra-African and Global Research Cooperation and</td>
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<td>Part 2: Roundtable Discussion: What have we learnt and what shall we</td>
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<td>Cooperation and Applications</td>
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</table>
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 Ntsoedibe-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
Tembalethu Ndwe, University of Cape Town, South Africa

17:30 End of Parallel Sessions
Friday, May 13, 2011

09:00 Workshop 9a eInfrasstructures 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
- eInfrasstructures 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 eInfrasstructures
  Francois Engelbrecht, CSIR, South Africa
- Sensor Web
  Simon Jirka, S2north, Germany

09:00 Workshop 9b IST-Africa - Linking European & African Researchers
Chair: Paul Cunningham, IIMC, Ireland

- EU - Africa Research Cooperation Opportunities
  Koas Glinos, European Commission, Belgium
- ICT Initiatives and Research Capacity in Botswana
  Oabona Monngakgotla, National Computer Board, Mauritius
- ICT Initiatives and Research Capacity in Mauritius
  Dan Fauqoo, National Computer Board, Mauritius
- ICT Initiatives and Research Capacity in Mozambique
  Zauria Safiedin, National Institute for ICT, Mozambique
- ICT Initiatives and Research Capacity in Namibia
  Florence Kavirindi, 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 Phogojane, 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 Faugny, 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 Gmez Barroso, UNED, Spain
- Vision of the Farm of Tomorrow
  Karel Charvat, Ces centrum pro vedu a spolecnost, Czech Republic
- VLITE NODE – Solution for Precision Farming
  Karel Charvat, Ces 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 10a Cloud Computing
Chair: tbc

- Cloud Computing as an Emerging Technology and its Associated Ethical Issues: Lessons that can be shared between Europe and Africa
  Kutomara J. Wakanuma, 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
  Almamy Konte, Ministre de l’Enseignement Supérieur, des Universités et des Centres Universitaires Régionaux et de la Recherche Scientifique, Senegal
- ICT Initiatives and Research Capacity in Cameroon
  Njep Check, National Agency for Information and Communication Technologies, Cameroon
- ICT Initiatives and Research Capacity in Kenya
  Jacob Ngai, Ministry of Higher Education, Science and Technology, Kenya
- ICT Initiatives and Research Capacity in Burundi
  Augustin Nsabiyumva, 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
  Loli 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 Mulero, 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 Devans, 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


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

**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), Ministere de l'Enseignement Superieur 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**

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**Conference Portal & Delegate Showcase**

[www.IST-Africa.org/Conference2011](http://www.IST-Africa.org/Conference2011)

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**IST-Africa 2011 Additional Supporting Organisations**