IST-Africa 2010
Final Programme
Durban, South Africa

19 - 21 May 2010

Copyright © Peter Bendheim Photography

IST-Africa is supported by the European Commission under the ICT Programme

Host Government

Major Sponsors

Technical Co-Sponsor
Introduction

**IST-Africa 2010** Conference & Exhibition takes place 19 - 21 May 2010 in Durban, South Africa. Part of the **IST-Africa Initiative**, which is supported by the European Commission under the ICT Theme of Framework Programme 7 (FP7), **IST-Africa 2010** is the fifth 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 South Africa through the Department of Science and Technology and Technically Co-Sponsored by IEEE and the Computer Society of South Africa, **IST-Africa 2010** 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 2010** 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 2010** 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 2010** 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 2010** 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 2010** Conference & Exhibition takes place in the Durban International Convention Centre, South Africa. Durban is a major port city located in the Province of KwaZulu-Natal, on the east coast of South Africa, 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 40 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 19 May features a high level dialogue on Implementation of the Africa-EU Partnership on Science, Information Society and Space. The Closing Plenary on Friday 21 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 19 May 2010.

The programme is subject to change and the **IST-Africa 2010** 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.

**JEG8 Meeting 18 May 2010**

The meeting of the Joint Expert Group (JEG8) for the 8th Africa-EU Strategic Partnership for Science, Information Society and Space will be hosted by the Department of Science and Technology in association with IST-Africa 2010 on Tuesday 18 May from 14:00 - 18:00 in Durban ICC.

This meeting follows on from the previous JEG8 meeting hosted by Ministry of Higher Education and Scientific Research, Egypt in Cairo on 05 - 06 March in association with the African Ministerial Conference for Science and Technology.

**IST-Africa 2010** delegates are invited to pre-register for this public meeting on Tuesday 18 March, which will share achievements to date within the three pillars of activities, lighthouse projects currently being launched and a discussion of the way forward.

**Networking Reception**

The IST-Africa Consortium are pleased to announce that a Networking Reception will be held in the IST-Africa 2010 Exhibition area in the Durban International Convention Centre on Wednesday 19 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 the Conference Dinner will take place on Thursday 20 May, from 19:30 - 22:30.

**Cyber Café**

**IST-Africa 2010** 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 2010 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 Hilton Durban, which is beside the Convention Centre and hotels along the Golden Mile (beach front area).

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/Conference2010

**How to get there**

The Durban International Airport is located one hour by air from Johannesburg. Delegates are advised to book flights to South Africa and accommodation as early as possible.

**Transportation from Airport**

From 01 May, all flights will arrive and depart from King Shaka International Airport, which is 35 kms north of Durban’s city centre.

Shared Shuttle services that stop at all main hotels and the Durban International Convention Centre are available outside the airport. A single fare is R80

A taxi from the airport to the Durban International Convention Centre will cost c R320.
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 2010 International Programme Committee includes:

- Paul Cunningham, IIMC, Ireland (Conference Chair)
- Prof. Jorn Braa, Oslo University, Norway
- Laurens Cloete, Meraka Institute, South Africa
- David Browne, Telkom, South Africa
- Prof. Johannes Cronje, Cape Peninsula University of Technology, 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
- Kristiina Lahde, SAFIPA Programme, South Africa
- Ilari Lindy, Ministry for Foreign Affairs, Finland
- Vasilis Koulolias, Gov2U, Greece
- Gareth MacNaughton, Lane & Hapiak Consulting, UK
- Prof. Maurice Mars, University of KwaZulu-Natal, South Africa
- Loi Namugenyi, Uganda National Council for Science & Technology, Uganda
- Michæl Ó Foghlú, TSSG, WIT, Ireland
- Maggy Pézieri, Pôle Universitaire Européen, France
- Bernard Steventon, SpaceBel, Belgium
- Richard Stevens, European Genetics Foundation, Italy
- Prof. Erkki Sutinen, University of Joensuu, Finland
- Helena Tapper, Embassy of Finland, South Africa
- Prof. Wallace Taylor, TISI, South Africa
- 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
- Maseqobela Williams, Ministry of Communications, Science & Technology, Lesotho
- Dr. Harold Wesso, eSkills Institute, South Africa

Organising Committee

- Miriam Cunningham, IIMC, Ireland
- Paul Cunningham, IIMC, Ireland
- Mmboneni Muofhe, Department of Science and Technology, South Africa
- Thabisa Mbulungwana, Department of Science and Technology, South Africa

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/Conference2010
### Programme

#### Wednesday, May 19, 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>Opening Remarks</td>
</tr>
<tr>
<td></td>
<td>Dr. Phil Mjwara, Director-General, Department of Science and Technology, South Africa</td>
</tr>
<tr>
<td>09:00</td>
<td>Registration</td>
</tr>
<tr>
<td>10:15</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:45</td>
<td>Plenary 2a: High-level Round Table on the Implementation of the Africa-EU Partnership on Science, Information Society and Space</td>
</tr>
<tr>
<td></td>
<td><strong>Panel Participants include:</strong></td>
</tr>
<tr>
<td></td>
<td>Prof. Hany Helal, Higher Education and State for Scientific Research, Egypt (AMCOST Chair)</td>
</tr>
<tr>
<td></td>
<td>Mr. Antti Peitomäki, Deputy Director-General, DG Information Society and Media, European Commission</td>
</tr>
<tr>
<td></td>
<td>Dr. Phil Mjwara, Director-General, Department of Science and Technology, South Africa</td>
</tr>
<tr>
<td></td>
<td>Mrs. Vera Brenda Ngosi, Director, HRST, African Union Commission, Ethiopia</td>
</tr>
<tr>
<td></td>
<td>Ms. Mamadu Mhohla, Director-General, Department of Communications, South Africa (tbc)</td>
</tr>
<tr>
<td></td>
<td>Mohamed Ben Amor, Director General, CERT, Tunisia, Co-chair JEG8</td>
</tr>
<tr>
<td></td>
<td>Ilari Lindy, Advisor, Information Society for Development, Ministry for Foreign Affairs of Finland</td>
</tr>
<tr>
<td></td>
<td>Prof. John Wood, Chair, European Research Area Board, United Kingdom</td>
</tr>
<tr>
<td></td>
<td>Joaquim Croac, Head of Vodafone Health Solutions</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
</tr>
<tr>
<td>14:00</td>
<td>Session 3a</td>
</tr>
<tr>
<td></td>
<td>8th Africa-EU Strategic Partnership - Information Society</td>
</tr>
<tr>
<td></td>
<td><strong>Chairs:</strong> Mohamed Ben Amor, CERT, Tunisia &amp; Ilari Lindy, Ministry for Foreign Affairs, Finland</td>
</tr>
<tr>
<td></td>
<td>P8/Information Society Lighthouse Projects: Status of Implementation &amp; Remaining Challenges</td>
</tr>
<tr>
<td></td>
<td>Policy Developments regarding African Regional Priorities and Programmes in the ICT Domain</td>
</tr>
<tr>
<td></td>
<td>Available Financing Instruments and Financial Perspectives</td>
</tr>
<tr>
<td></td>
<td>Discussion</td>
</tr>
<tr>
<td>14:00</td>
<td>Session 3b</td>
</tr>
<tr>
<td></td>
<td>eGovernment - Services</td>
</tr>
<tr>
<td></td>
<td><strong>Chair:</strong> Immo Onuegbu, Ministry of Education, Namibia</td>
</tr>
<tr>
<td></td>
<td>Balancing Security and Privacy in eGovernment Services</td>
</tr>
<tr>
<td></td>
<td>James Clarke, Waterford Institute of Technology, Ireland</td>
</tr>
<tr>
<td></td>
<td>Mobile Government for Improved Public Service Provision in South Africa</td>
</tr>
<tr>
<td></td>
<td>Mzwamuhle Nkosi, CSIR, South Africa</td>
</tr>
<tr>
<td>14:00</td>
<td>Session 3c</td>
</tr>
<tr>
<td></td>
<td>Technology Enhanced Learning</td>
</tr>
<tr>
<td></td>
<td><strong>Chair:</strong> Darelle van Greuven, Nelson Mandela Metropolitan University, South Africa</td>
</tr>
<tr>
<td></td>
<td><strong>Teaching and Learning with New Technologies - A Tough Nut to Crack</strong></td>
</tr>
<tr>
<td></td>
<td>Jacqueline Batchelor, University of Pretoria, South Africa</td>
</tr>
<tr>
<td></td>
<td><strong>Sustainable, Scalable and Affordable Mobile Learning Service for Formal Education</strong></td>
</tr>
<tr>
<td></td>
<td>Riitta Väniski, NOKIA, South Africa</td>
</tr>
<tr>
<td></td>
<td><strong>Metaschool.cz - Towards Teacher Competencies with Web 2.0</strong></td>
</tr>
<tr>
<td></td>
<td>Karel Charvat, Ceske centrum pro vedu spolecnost, Czech Republic</td>
</tr>
<tr>
<td></td>
<td><strong>Google Docs and Skype for a low bandwidth Virtual Classroom for Developing Countries</strong></td>
</tr>
<tr>
<td></td>
<td>Hannah Thinayire, Rhodes University, South Africa</td>
</tr>
<tr>
<td></td>
<td><strong>The SANTED Virtual Classroom Project: A Case Study</strong></td>
</tr>
<tr>
<td></td>
<td>Kauna Mufeti, University of Namibia, Namibia</td>
</tr>
<tr>
<td>16:00</td>
<td>Session 4a</td>
</tr>
<tr>
<td></td>
<td>8th Africa-EU Strategic Partnership - Information Society</td>
</tr>
<tr>
<td></td>
<td><strong>Chairs:</strong> Mohamed Ben Amor, CERT, Tunisia &amp; Ilari Lindy, Ministry for Foreign Affairs, Finland</td>
</tr>
<tr>
<td></td>
<td><strong>Showcase of EU and African Member States Funded Activities; Proposals for New Activities</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Advancing the Information Society Agenda</strong></td>
</tr>
<tr>
<td></td>
<td>Thembah Phiri, Department of Communications, South Africa</td>
</tr>
<tr>
<td></td>
<td><strong>Finland STI Programmes in South Africa and Southern Africa</strong></td>
</tr>
<tr>
<td></td>
<td>Helena Tapper, Embassy of Finland, South Africa</td>
</tr>
<tr>
<td></td>
<td><strong>ICT Initiatives in Mauritius</strong></td>
</tr>
<tr>
<td></td>
<td>Dan Faugoo, National Computer Board, Mauritius</td>
</tr>
<tr>
<td></td>
<td><strong>How to Bridge the Digital Divide in Africa? Case Studies in Zambia</strong></td>
</tr>
<tr>
<td></td>
<td>Lenka Ptáčková Melicharová, Deputy Minister of Interior (EU Affairs), &amp; Jitl Průša, Czech Republic</td>
</tr>
<tr>
<td></td>
<td><strong>ICT Initiatives in Mozambique</strong></td>
</tr>
<tr>
<td></td>
<td>Augusto Nunes, ICT Policy Implementation Technical Unit (UITICT), Mozambique</td>
</tr>
</tbody>
</table>

---

**Conference & Exhibition**

19 - 21 May 2010
ICT Initiatives in Botswana
Gabon Mbongakgolla, Ministry of Infrastructure, Science and Technology, Botswana

16:00 Session 4b eGovernment - Assessment

Chair: Love Ekenberg, University of Stockholm, Sweden
Are e-Government investments delivering against expected payoffs? Evidence from the United Kingdom and South Africa
Rennie Naidoo, Wits, South Africa
Measuring the Public Value of e-Government: Methodology of a South African Case Study
Carsten Friedliand, SAP Research, Germany
Public Decision Making Support: A Developing Country Perspective
Love Ekenberg, Stockholm University, Sweden
A Conceptual Ontology for E-government Monitoring of Development Projects in Sub Saharan Africa
Jean Vincent Fonou Dombue, Vaal University of Technology, South Africa
A Critical Discourse or the ICT Strategies of the Center for Innovation, Provincial Government of the Western Cape
Steve Vosloo, Shuttleworth Foundation, South Africa

16:00 Session 4c Technology Enhanced Learning - Integrating new elements

Chairs: Wallace Taylor, TISI - The Information Society Institute, South Africa
A Pragmatic Framework for Integrating ICT into Education in South Africa
Adede Botha, Meraka Institute, South Africa
Harnessing Available Technology for Secondary School Education in Africa
Vincent Kizza, Open Education Resource Foundation(OERF), Uganda
Indigenous African Artefacts: Can they Serve as Tangible Programming Objects?
Andrew Smith, CSIR Meraka Institute, South Africa
Working for my dreams - A Tanzanian OLPC experience
Marcus Duveskov, University of Joensuu, Finland
Science Diffusion as a Form of Cooperation
Antonio Jose Batel Anjo, Universidade de Aveiro, Portugal

16:00 Workshop 4d SAFIPA - Disruptive Innovation in Emerging Markets - A Catalyst for Reducing Poverty and Improving Lives?

Chair: Kristiina Lahde, SAFIPA Programme, South Africa & Danielle van Greunen, Nelson Mandela Metropolitan University, South Africa
Position 1: How are emerging market companies forging ahead of the competition? Emerging markets have low worldwide costs, appealing products, modern facilities, and ambitious leaders going for them.
Position 2: Emerging markets are generating a wave of disruptive product and process innovations that are helping established companies and a new generation of entrepreneurs to achieve new price-performance levels for a range of globally traded goods and services.
Position 3: Western companies should not have to adapt old business models and build distinctive capabilities in the low-income segments of emerging economies. There is no such thing as the Bottom of the Pyramid.
Position 4: "Disruptive innovation" is only applicable to describe trends in the rapidly changing worlds of telecoms and pharmaceuticals. Digital and photocopying technologies are examples of disruptive innovations in emerging economies.
Panelists include
Kimmo Viljamaa, Advansis Ltd, Finland
Stephan Lambrecht, Venture Solutions
Discussion

16:00 Workshop 4e Emerging e-Infrastructures for Science in Sub-Saharan Africa

Chair: Bruce Backer, Meraka Institute, South Africa
Development of an EUGridPMA-accredited Certificate Authority for the South African National Grid
Tarirai Chani, Meraka Institute, South Africa
Long-term Sustainability of Emergent e-Infrastructures
Valeria Ardizzone, Istituto Nazionale di Fisica Nucleare Sez. Catania, Italy
GILDA: A Model of t-InfraStructure for Dissemination and Training
Valeria Ardizzone, Istituto Nazionale di Fisica Nucleare Sez. Catania, Italy
Considerations of User Engagement in New Site Designs
Andrew Lewis, University of Cape Town, South Africa

18:00 Networking Reception in Exhibition
11:00 Workshop 6d  Services for the Autonomous Living and Mobility of the Elderly
Chair: Maria Panou, Hellenic Institute of Transport, Greece
An Ontological Framework for the Elderly to Control their Home Environment (OASIS project)
Gerit Telkamp, DOMOLOGIC, Germany
eHealth Services for the Elderly at Home and on the Move
Maria Fernanda Cabrera, Polytechnic University of Madrid, Spain
Use Cases and Scenarios for Remote Support of the Elderly to Live Autonomousy Alone (REMOTE project)
Evangelos Bekiaris, Hellenic Institute of Transport, Greece
User Interfaces and Strategies for Guidance of Elderly in Emergencies through Nomadic Devices (SAVE ME project)
Harald Widricher, University of Stuttgart, Germany
Assessing the Accessibility of UI for all Ages
Karel Van Isacker, MCA, Bulgaria
Pedestrian and Multimodal Route Guidance Adaptation for Elderly Citizens (ACCESS2ALL project)
Maria Panou, Hellenic Institute of Transport, Greece

12:30 Lunch  Exhibition & Networking

14:00 Workshop 7a  Africa4All – Leveraging ICT in African Parliaments I
Chair: Vasillis Kouliouias, Gov2U, Greece
Africa4All Parliamentary Initiative
Vasillis Kouliouias, Gov2U, Greece
Current ICT Initiatives and Future Plans for Civil Engagement at the Parliament of Namibia: Successes, Challenges and Lessons Learnt
Marianne Gei-khoibes, National Assembly of the Parliament of Namibia
Initial Experiences in Parliament of Lesotho
Moeletsi Liptoho, National Assembly of the Parliament of Lesotho
Experiences from the eParliament project in Mauritius
Nirveeka Callychurn, National Assembly, Mauritius

14:00 Workshop 7b  Challenges & Opportunities for African-European ICT Partnerships in FP7
Chair: Mmboneni Muofhe, Department of Science & Technology, South Africa
Taking Advantage of FP7 Opportunities
Mmboneni Muofhe, Department of Science & Technology, South Africa
The State of African Participation in ICT Theme of FP7
Segoposoto Moshapo, SAP Research CEC Pretoria, South Africa
Experiences from the Digital World Forum Project
Thato Foko, Meraka Institute, South Africa
EuroAfrica-ICT - Promoting and Supporting the Development of S&T Cooperation on ICT Research between Europe and Sub-Saharan Africa
Karine Valin, Sigma Orionis, France
GEO-Africa/AfricaSat-1 project
Gregory Pedersen, EADS Astrium, France
14:00 Session 7c  Technology Enhanced Learning - Case Studies
Chair: Love Ekenberg, University of Stockholm, Sweden
Technology Enhanced Learning for Remote Nurses in KwaZulu-Natal
Jennifer Chippis, UKZN, South Africa
Making an Information for Development Study Centre Operational
Erkki Sulinen, University of Joensuu, Finland
Mobile and Context: Divide or Conquer
Adele Botha, Meraka Institute, South Africa
The Intranet as a Knowledge Enabler towards a KM strategy in a South African organisation
Udo Averweg, Information Services, eThekwini Municipality and University of KwaZulu-Natal, South Africa
Go Mobile! The Mobile Learning Institute Leadership Summit
Adele Botha, Meraka Institute, South Africa

14:00 Session 7d  eHealth - Issues and Case Studies
Chair: Loi Namugenyi, Uganda National Council for Science & Technology, Uganda
Medical Research Council and eHealth in South Africa
Jill Fortuin, Medical Research Council, South Africa
Privacy and Data Protection in eHealth: A Comparative Approach between South African and French Legal Systems
Nathalie Ferraud-Ciandet, Grenoble Ecole de Management, France
Budhuds: An eHealth Business Model for Emerging Countries
Yvonne Wickramasinghe, University of Colombo, Sri Lanka
HealthChange: A Change Management Model for an eHealth Solution in Developing Countries
Dulindra Wijethilake, University of Colombo, Sri Lanka

14:00 Workshop 7e  Building a Research and Education Network Infrastructure in Africa: Political Awareness, Will and Capacity
Chair: Leonardo Flores, European Commission & Ahmed Hamdy, AUC
European Commission Perspectives
Kostas Gilinos, European Commission, Belgium
African Union Commission Perspectives
Vera Ngosi, African Union Commission, Ethiopia
The AfricaConnect Implementation Plan
Cathrin Stover, DANTE, United Kingdom
FEAST Identification of Remaining Gaps
Bjorn Pehrson, KTH, Sweden
The Role of African RRENs and NRENs
Boubakar Barry, AAU, Ghana
The e-Africa Project
Karine Valin, Sigma Orionis, France

15:30 Coffee Break  Exhibition & Networking

16:00 Workshop 8a  Africa4All – Leveraging ICT in African Parliaments II
Chair: Vasilis Kouloulas, Gov2U, Greece
Enhancing Democracy through use of ICT - Experience of Uganda
Alyxius Makata, Parliament of Uganda
ICT for Productivity in Parliament: Kenya Parliament Experiences
Owino Harrison, Kenya National Assembly, Kenya
Leveraging ICT in the Parliament of Tanzania
Didas Warnbura, Parliament of the United Republic of Tanzania
Panel Discussion

16:00 Workshop 8b  Research Interoperability, Digitisation Techniques and Digital Preservation: the European context
Chair: Robert Davies, EuropeanaLocal, United Kingdom
Research and the interoperability of Europeana
Robert Davies, EuropeanaLocal, United Kingdom
Technologies, Standards and Business Models for the Formation of Virtual Collections of 3D Replicas of Museum Objects: the 3D-COFOM Project
Franco Niccolucci, STARC, Cyprus
The work of eIFL.net in the Digital Libraries Environment
Monika Segbert-Elbers, eIFL.net, Italy
African Scholarship: Bringing Local Knowledge Production to the Global Research Infrastructure
Dale Peters, University of KwaZulu-Natal, South Africa
A Strategic Approach to Research Publishing in South Africa
Susan Veldsman, Academy of Science of South Africa, South Africa

16:00 Workshop 8c  SAFIPA – Digital Learning and Open Education Solutions
Chair: Ashraf Patel, SAFIPA Programme, South Africa
An Overview of new Web 2.0 Trends in Digital Education and Open Content in Africa
Thato Foko, Meraka Institute, South Africa
Maths Multimedia Pilot Project for South Africa Curriculum
Riyaadh Ebrahim, CECS, South Africa
YESA Science Education Case Study
Ron Beyers, YESA, South Africa
Mobile Learning and Digital Content Modules for Children - A Case Study
Paul Moeng, New Media, South Africa
Open Source Platforms and Tools for Online Learning – Wits Case Study
Derek Kleats, Deputy Vice Chancellor, Wits University, South Africa
Nokia Mobile Maths Project
Ritta Vannaka, Nokia, South Africa
Interactive Virtual Reality (IVR) Methodology for Community Education
Dave Lockwood, Naledi3d Factory (Pty)Ltd, South Africa

16:00 Session 8d  eHealth - Information Management Systems
Chairs: Richard Stevens, Italy
A Multi-country Examination of Approaches for Investigating the Attitudes of Health care Professionals towards the Development and Use of Information Systems
Deana Lebedtiev, University of Keele, United Kingdom
Using Local Knowledge in Information Gathering Process: Case study from Ethiopia
Zufan Damtew, University of Oslo, Ethiopia
Analyzing Mother and Child Health Policy-driven Information Subsystems in Mozambique through the lens of Activity Theory
Gertrudes Macueve, Universidade Eduardo Mondlane, Mozambique
Socio-Tech SA: Made-in-South Africa Socio-technical Methods and Education for Local Software Industry to contribute to Socio-economic Development
Retha de la Harpe, CPUT, South Africa

16:00 Workshop 8e  Building a Research and Education Network Infrastructure in Africa - Round Table on Next Steps and Synergy between Actors
Chairs: Vera Brenda Ngosi, Director, HRST, African Union Commission, Ethiopia & Kostas Gilinos, European Commission, Belgium
Penel Participants include:
Boubakar Barry, AAU
Francis Tusu, UbuntuNet Alliance
Cathrin Stover, DANTE
Maria José Lopez, CLARA
Bjorn Pehrson, KTH

Friday, May 21, 2010

[ 8 - 9 ] Advance
Factors influencing the Use of Information and Communication Technology by Farm Employees in Western Cape Commercial Agriculture: A Case Study of the Wine Industry
Rachael Tembo, Cape Peninsula University of Technology, South Africa

09:00 Tutorial 9b  6DEPLOY - IPv6
Chair: Martin Potts, Martel, Switzerland
Why deploy IPv6, What is IPv6, What are the main considerations to make when deploying IPv6?
B. Tuy, RENATER, France
Some guidelines and examples of deploying IPv6 in:
Campus networks, ISPs
B. Tuy, RENATER, France
Enterprises
B. Habraken, Cisco, Netherlands
What the EC FP7 project 6DEPLOY can offer, eg.: Training modules & Training workshops
Martin Potts, Martel, Switzerland
An e-learning course, Deployment guidelines, Supported Testbeds in Kenya and Mauritius
B. Tuy, RENATER, France

09:00 Workshop 9c  ICT-Enhanced Learning and Citizen Empowerment across Africa
Chair: Robert Franz, Ashburn Institute, United States
Kasambya Computer Centre – from Community Initiative to Self-Sustainable Enterprise
Kseniya Khovanova, Ashburn Institute, Ukraine
Hungry for Change: ICT-Enhanced Enterprise Financing
Robert Franz, Ashburn Institute, United States
Challenges and Potential Benefits of Small-scale ICT-Initiatives In Africa
Kyewalyanga Wahabu, Kasambya Community Computer Centre, Uganda
Developing Country-Focused ICT-Impact Evaluation Tools
Heather Thompson, Ashburn Institute, United States

09:00 Session 9d  eHealth - Case Studies
Chair: Maurice Mars, University of KwaZulu-Natal, South Africa
Training Design should consider the Health workers’ Ability to Positive Training Transfer: Case Study in Ethiopia
Birkinessh Lagebo, University of Oslo, Norway
The Life and Times of an Online Support Group: a South African Case Study
Jay Barnes, Cape Peninsula University of Technology, South Africa
Some EU IST/ICT Projects As a Source for Transfer of Know How on e-Health to Africa
Dusan Softes, Comenius University, Slovakia

09:00 Session 9e  Leverage Infrastructures
Chair: David Browne, Telkom, South Africa
eGY-Africa: Better Internet Connectivity to Reduce the Digital Divide
Charles Barton, Australian National University, Australia
An Energy Saving Scheme for Internet Provision in Rural Africa: LESS Moshe Masona, CSIR Meraka Institute, South Africa
Challenges of Evidence Acquisition in Wireless Ad-Hoc Networks
Murimo Bethel Mutanga, University of Zululand, South Africa
Distributed Government e-mail Service: Mozambique GovNet Case Study
Sergio Mapsanganhe, ICT Policy Implementation Technical Unit (UTICT), Mozambique
The Community-oriented Computer Security, Advisory and Warning Team
Ian Ellesfen, University of Johannesburg, South Africa

10:30 Coffee Break  Exhibition & Networking

11:00 Session 10a  Leveraging RFID and Information Systems
Chair: Laurents Cloete, Meraka Institute, South Africa
An Implementation of a Multi-Agent Based RFID Middleware for Asset Management System Using the Jade Platform
Lize Valentine Massawe, Central University of Technology, Free State, South Africa
Tackling Cattle Rustling Menace Using RFID/GPS Livestock Traceability Application in the North Rift Kenya: Assessment of Options and Way Forward
Lazanus N. Kabasu, Ministry of Provincial Administration, Kenya

Mobile4D Platform
Adlev Botha, Meraka Institute, South Africa
Modelling the Context of Information Systems
Mikko Korpela, University of Eastern Finland, Finland
Digital Watermarking: A State-of-the-Art Review
Ademola Adesina, University of the Western Cape, South Africa

11:00 Tutorial 10b  6DEPLOY - IPv6
Chair: Martin Potts, Martel, Switzerland
Practical IPv6 configuration exercises on routers and clients using remote access to the 6DEPLOY testbeds in Kenya and Mauritius
B. Habraken, Cisco, Netherlands & B. Tuy, RENATER, France

11:00 Workshop 10c  Technology for Communities of Practice: The Power of Collaborative Learning
Chair: Maik Schansker, United Nations University, Germany
Introduction
Maik Schansker, United Nations University, Germany
e/merge: Using Online Conferences to Promote Professional Development in Africa
Tony Carr, University of Cape Town, South Africa
Triangulating for Success: A Practitioner’s Experience using External Networks to Leverage Learning and Outcomes within Organizations and Institutions
Nancy White, Full Circle Associates, United States

11:00 Session 10d  eHealth - Case Studies
Chair: Richard Stevens, European Genetics Foundation, Italy
Open Source Software Application and their Impacts on SMEs: An Action for Building an OSS Community environment in Tanzania
George S. Oreku, TIRDO, United Republic of Tanzania
Proposal for a Logistic Domain Ontology
Flavio Bonfatti, University of Modena and Reggio Emilia, Italy
Dual Licensing Policy – New Way for Software Development
Zbynek KRIVANEK, Ceske centrum pro vedu a spolecnost, Czech Republic

12:30 Lunch  Exhibition & Networking

13:30 Closing Plenary 12a Initiatives Supporting Development of Regional S&T

Closing Remarks
Hon. Naledi Pandor, Minister of Science and Technology, South Africa
Best Paper Award
Best Demonstration Stand Award

The Programme presented is accurate as at 10 May 2010 and is subject to change without notice at the discretion of the International Programme Committee Chair. Please view the Online Programme for the most up-to-date information.
Registration Information

It is necessary for all IST-Africa 2010 delegates to register online. Each delegate should be registered separately.

Conference Fees

**Authors Fees (Due by 05 March)**

- Authors - African States (1) €100
- 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 12 March)**

- Early Bird - African States (1) €200
- 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 13 March**

- Delegate Full Price - African States (1) €250
- 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, Bahamas, Barbados, Belize, Cuba, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, St.Kitts & Nevis, St.Lucia, St.Vincent, Suriname, Trinidad & Tobago, Cook 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 2010 must complete their payment registration by 05 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 24 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 2010 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 payment registration by bank transfer. Please contact the Conference Secretariat.

12. The registration desk will open on Tuesday 18 May from 16:00 to 19:00 and will remain open during normal conference hours from 08:00 on Wednesday.
Major Places of Interest

Durban is in the Province of KwaZulu-Natal, located on the east coast of South Africa. Durban has a population of c. 3 million people and has one of the busiest ports in Africa. Durban is one hour by air from Johannesburg with frequent flight schedules.

While in Durban, delegates and accompanying persons should visit the ‘Golden Mile’ (beachfront area), uShaka Marine World, City Hall and Botanical Gardens.

Other places in interest around Durban include: Hluhluwe-Imfolozi Game Reserve, Drakensberg Mountains, the Giant’s Castle World Heritage Site and the Valley of 1000 Hills.

Climate

Facing onto the Indian Ocean, Durban has a subtropical climate ensuring warm winters and tropical summers.

Average temperatures in Durban in May are warm, ranging from 14 - 25 degrees Celsius.

Visa Information

Conference delegates should contact the South African 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.

Information is also available on the South African Department of Home Affairs website


The IST-Africa 2010 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.

Sponsors

IST-Africa 2010 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 2010 is hosted by the Government of South Africa through the Department of Science and Technology. Major sponsors include the SAFIPA Programme (cooperation between Finland and South Africa) and NOKIA.


For further information, please contact the Conference Secretariat at secretariat@IST-Africa.org

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 2010** 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**

<table>
<thead>
<tr>
<th>Stand Name</th>
<th>Organisation</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST-Africa Initiative</td>
<td>IST-Africa Consortium</td>
<td>14 African Member States</td>
</tr>
<tr>
<td>Africa4All Parliamentary Initiative</td>
<td>Africa4All Consortium</td>
<td>5 African Member States</td>
</tr>
<tr>
<td>Department of Science and Technology</td>
<td>Department of Science and Technology</td>
<td>South Africa</td>
</tr>
<tr>
<td>SAFIPA Programme</td>
<td>SAFIPA Programme</td>
<td>South Africa</td>
</tr>
<tr>
<td>African Union Commission</td>
<td>African Union Commission</td>
<td>Ethiopia</td>
</tr>
<tr>
<td>Technology Innovation Agency</td>
<td>Technology Innovation Agency</td>
<td>South Africa</td>
</tr>
<tr>
<td>Department of Communications</td>
<td>Department of Communications</td>
<td>South Africa</td>
</tr>
<tr>
<td>Pearson VUE</td>
<td>Pearson VUE</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>Contrapunctus Project</td>
<td>Università degli Studi di Milano</td>
<td>Italy</td>
</tr>
<tr>
<td>4th Way for your Spatial Information</td>
<td>Ceske centrum pro vedu a spolecnost</td>
<td>Czech Republic</td>
</tr>
<tr>
<td>Rhodes University</td>
<td>Rhodes University</td>
<td>South Africa</td>
</tr>
<tr>
<td>Fore Hare University</td>
<td>Fore Hare University</td>
<td>South Africa</td>
</tr>
<tr>
<td>Centre for Quantum Technology</td>
<td>University of KwaZulu-Natal</td>
<td>South Africa</td>
</tr>
<tr>
<td>CSIR/Meraka Institute - Mobile Services</td>
<td>Meraka Institute</td>
<td>South Africa</td>
</tr>
<tr>
<td>Medical Research Council</td>
<td>Medical Research Council</td>
<td>South Africa</td>
</tr>
<tr>
<td>Durban University of Technology</td>
<td>Durban University of Technology</td>
<td>South Africa</td>
</tr>
<tr>
<td>University of Johannesburg</td>
<td>University of Johannesburg</td>
<td>South Africa</td>
</tr>
<tr>
<td>Central University of Technology</td>
<td>Central University of Technology, Free State</td>
<td>South Africa</td>
</tr>
<tr>
<td>University of Cape Town</td>
<td>University of Cape Town</td>
<td>South Africa</td>
</tr>
<tr>
<td>SmartXchange</td>
<td>SmartXchange Durban</td>
<td>South Africa</td>
</tr>
<tr>
<td>xCalibre</td>
<td>xCalibre</td>
<td>South Africa</td>
</tr>
<tr>
<td>ITOCA - Information Training &amp; Outreach Centre for Africa</td>
<td>ITOCA</td>
<td>South Africa</td>
</tr>
<tr>
<td>Allos Consulting (Pty) Ltd</td>
<td>Allos Consulting (Pty) Ltd</td>
<td>South Africa</td>
</tr>
</tbody>
</table>

---

**Conference Portal & Delegate Showcase**

www.IST-Africa.org/Conference2010

**IST-Africa 2010 Additional Supporting Organisations**