IST-Africa 2008

Advance Programme

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Windhoek *Namibia*

07 - 09 May 2008

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

European Commission
Information Society and Media

ISTAfrica

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Introduction

IST-Africa 2008 Conference & Exhibition takes place 07 - 09 May 2008 in Windhoek, Namibia. Part of the **IST-Africa Initiative**, which is supported by the European Commission under the Information Communications Technologies (ICT) Theme of Framework Programme 7 (FP7), **IST-Africa 2008** is the third 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 Namibia and Technically Co-Sponsored by IEEE, **IST-Africa 2008** focuses on Applied IST research in the areas of eHealth, Technology Enhanced Learning and ICT Skills, Open Source Software, ICT for Inclusion, eInfrastructures, ICT for Environmental Risk Management, ICT for Networked Enterprise and eGovernment and eDemocracy. **IST-Africa 2008** 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 2008** 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.

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, and to support International Cooperation and open up the European Research Area (ERA) to Africa.

Who will you meet?

IST-Africa 2008 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 2008 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.

The Venue

IST-Africa 2008 Conference & Exhibition takes place in the Windhoek Country Club, Windhoek, Namibia.

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 over 35 thematically focused parallel sessions featuring different aspects of International Cooperation, eHealth, eInfrastructures, Technology Enhanced Learning and ICT Skills, ICT for Inclusion, ICT for Networked Enterprise, ICT for Environmental Risk Management, and eGovernment and eDemocracy. Session Chairs will ensure active discussion and facilitate delegate participation.

There will also be tutorials organised by scientific officers from DG Information Society and Media of the European Commission in relation to specific thematic areas and up coming Calls for Proposals under FP7.

The conference programme is complemented by a demonstration and technology exploitation focused Exhibition and a Networking Reception which will take place on Wednesday 09 May 2008.

The programme is subject to change and the **IST-Africa 2008** 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. Social events are designed to facilitate informal discussion and the Cyber Café makes it easy to

follow up on opportunities or leads immediately.

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.

Cyber Café

IST-Africa 2008 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 2008** 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 Windhoek. 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 with two hotels in Windhoek: the Windhoek Country Club and Safari Hotel. More information on the Conference hotels and rates will be available online in February.

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/Conference2008

How to get there

Windhoek International airport (Hosea Kutako International airport) is located 42 kilometres from Windhoek. More information in relation to transportation from the airport to the conference hotels will be published online in late February.

Driving in Namibia

In Namibia, all vehicles drive on the left hand side of the road as in the majority of the Southern Africa countries. It is compulsory to carry your driver license and the vehicle documentation at all times, as this must be produced on request at the roadblocks which lead in and out of Windhoek. Please ensure that your driver license is recognised in Namibia or apply for an International Drivers License in sufficient time prior to travelling. Seat belts must be worn at all times, and it is prohibited to use a mobile phone whilst driving.

If you wish to hire a car to pick up upon arrival at Hosea Kutako International airport, it is necessary to book the car in advance. Hire car companies operating at the airport include Hertz, Budget, Avis and Imperial. It is often possible to get better rates and excess waivers if booked from outside the country. The drive from the airport to Windhoek takes 40 mins. The road infrastructure in and around Windhoek is excellent and drivers are courteous.

The general speed limit is 120km/hr on the tar roads outside of towns, 100km/hr on gravel roads and 60km/hr in built up areas.

Sponsors

IST-Africa 2008 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 2008 Bronze sponsors include SAP Research.

Technical Co-Sponsors include IEEE Region 8 (Europe, Middle East, Africa), IEEE South Africa Section, IEEE South Africa Computer Chapter, IEEE UKRI Computer Chapter and IEEE Control and Communications (Ireland) Joint Chapter.

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

Media Partners

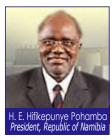Media partners confirmed to date include eStrategies and The Parliament Magazine.

Plenary Session Speakers
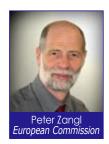

H. E. Hifikepunye Pohamba
President, Republic of Namibia

Minister Mbumba
MoE Namibia

Minister Mangena
DST South Africa

Peter Zangl
European Commission

J.M. Silva Rodríguez
European Commission

IST-Africa 2008 will be opened by **His Excellency, Hifikepunye Pohamba**, President of Republic of Namibia.

Other Keynote Speakers confirmed to date include:

- **Honourable Nangolo Mbumba,** Minister of Education, Namibia
- **Honourable Dr Shukuru Kawambwa,** Minister for Communications, Science and Technology, Tanzania
- **Honourable Mosibudi Mangena,** Minister of Science and Technology, South Africa
- **Honourable Dr. Ham-Mukasa Mulira**, Minister of Information and Communications Technology, Uganda
- **Honourable Dr. Noah Wekesa**, Minister for Science and Technology, Kenya
- **Senior Representative**, African Union Commission, Ethiopia
- **Mr Peter Zangl,** Deputy Director-General, DG Information Society and Media, European Commission
- **Mr José Manuel Silva Rodríguez,** Director-General, DG Research, European Commission
- **Dr. Hakim Elwaer,** Director, HRST, African Union Commission
- **Dr. John Mugabe,** NEPAD S&T
- **Ms. Aida Opoku-Mensah,** Director, United Nations Economic Commission for Africa
- **Dr. Shamila Nair-Bedouelle,** Division of Science Policy and Sustainable Development, UNESCO
- **Ms. Magda Berhe,** The Swedish Program for ICT in Developing Regions

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 2008** International Programme Committee includes

- **Paul Cunningham,** IIMC, Ireland (Conference Chair)
- **Henry Alamango,** COMNET-IT, Malta
- **Prof. Jørn Braa,** Oslo University Norway
- **Dr Elaine Byrne,** University of Pretoria, South Africa
- **Jim Clarke,** Waterford Institute of Technology, Ireland
- **Laurens Cloete,** Meraka Institute, 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
- **Ilari Lindy,** European Network and Information Security Agency (ENISA), Greece
- **Gareth MacNaughton,** Lane & Hapiak Consulting, UK
- **Dr. Esselina Macome,** Eduardo Mondlane University, Mozambique
- **Prof. Maurice Mars,** University of KwaZulu-Natal, South Africa
- **Namugenyi Loi Mirembe,** Uganda National Council for Science & Technology, Uganda
- **Maggy Pézeril,** Pôle Universitaire Européen, France
- **Matti Sinko,** Helsinki University of Technology, Finland
- **Dr Vincent Shaw,** HISP, Namibia
- **Prof. Peter Sloot,** University of Amsterdam, Netherlands
- **Bernard Stevenot,** SpaceBel, Belgium
- **Richard Stevens,** INSIEL S.p.A, Italy

- **Prof. Erkki Sutinen,** University of Joensuu, Finland
- **Prof. Wallace Taylor,** Cape Peninsula University of Technology, South Africa
- **Daan du Toit,** Senior Science and Technology Representative in Europe, Department of Science & Technology, South Africa
- **Maseqobela Williams,** Ministry of Communications, Science & Technology, Lesotho
- **Stefan Wesner,** High Performance Computing Center of University Stuttgart, Germany
- **Dr. Harold Wesso,** DDG (Policy), Department of Communications, South Africa

Organising Committee

- **Miriam Cunningham,** IIMC, Ireland
- **Paul Cunningham,** IIMC, Ireland
- **John Sifani,** Ministry of Education, Namibia
- **Johan van Wyk,** Ministry of Education, Namibia

REPUBLIC OF NAMIBIA

Conference Secretariat

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Conference Portal & Delegate Showcase

www.IST-Africa.org/Conference2008

1 DAY

Wednesday, May 07, 2008

| 08:00 | Registration |

| 09:00 | Opening Plenary 1a |

Welcome Address
His Excellency, Hifikepunye Pohamba, President of Republic of Namibia

Title to be confirmed
Honourable Nangolo Mbumba, Minister of Education, Namibia

ARAPKE Action Plan
Senior Representative, African Union Commission, Ethiopia

Title to be confirmed
Mr Peter Zangl, Deputy Director-General, DG Information Society and Media, European Commission

Title to be confirmed
Mr José Manuel Silva Rodríguez, Director General, DG Research, European Commission

AMCOST Consolidated Plan of Action
Honourable Dr. Noah Wekesa, Minister for Science and Technology, Kenya

| 10:20 Coffee Break | Exhibition & Networking |

| 10:45 | Opening Plenary 2a |

Title to be confirmed
Honourable Mosibudi Mangena, Minister of Science and Technology, South Africa

Title to be confirmed
Honourable Dr. Ham-Mukasa Mulira, Minister of Information and Communications Technology, Uganda

Title to be confirmed
Honourable Dr Shukuru Kawambwa, Minister for Communications, Science and Technology, Tanzania

| 12:30 Lunch | Exhibition & Networking |

| 14:00 Workshop 3a | Innovation in Namibia |

Chair: Alfred Ilukena, Ministry of Education, Namibia

Namibia Business Innovation Centre
Tjama Tjivikua, Polytechnic of Namibia

Namibia Network Information Centre
Ben Fuller, Namibia Network Information Centre

| 14:00 Workshop 3b | eHealth - Integrated District Health Information Systems in Africa I |

Chair: Jørn Braa, University of Oslo, Norway

De-fragmenting Health Information Systems in Sierra Leone: Horizontal and Vertical Integration
Edem Kwame Kossi, University of Oslo, Norway

Institutionalising the Integration of Health Information Systems through Stakeholder Buy-in: The Case of Malawi
Anthony Muyepa-Phiri, University of Malawi, Malawi

Implementing Health Information System in Zanzibar: Using Internet for Communication, Information Sharing and Learning
Yahya Hamad Sheikh, The State University of Zanzibar / University of Oslo, United Republic of Tanzania

Scaling HIS in Developing Countries: Case Studies from Ethiopia
Selamawit Molla Mekonnen, University of Oslo, Norway

| 14:00 Session 3c | Using Mobile Devices to Support Technology Enhanced learning |

Dr Math Rocks!: Using Instant Messaging to Help Pupils with Mathematics Homework
Laurie Butgereit, Meraka Institute, South Africa

ME-LEARN: Mobile Devices in the Face-to-Face Classroom
Annette de Jager, meLearn Education, South Africa

More than Mobile
Adele Botha, Meraka Institute, South Africa

| 14:00 Workshop 3d | Converging Technical and Non-Technical Consumer Needs in ICT Trust, Security & Dependability across Disciplines |

Chair: Ilari Lindy, ENISA, Greece

ENISA - Fostering the Culture of Network and Information Security
Ilari Lindy, ENISA, Greece

Challenges for the Protection of Critical ICT-Based Financial Infrastructures
James Clarke, Waterford Institute of Technology, Ireland

Requirements and Potential for Information Security as a Key Capability for Technological Innovation
Laurens Cloete, Meraka Institute, South Africa

Building a World Class Information Security Governance model
Marthie Lessing, CSIR, South Africa

| 15:30 Coffee Break | Exhibition & Networking |

| 16:00 Workshop 4a | Harnessing ICT within the SADC Region |

SADC ICT Declaration
Robin Unuth, SADC Secretariat, Botswana

SADC Communication
Cecilia Mamelodi, SADC Secretariat, Botswana

Research Infrastructures
Carmen Mena Abela. eInfrastructures Unit, DG Information Society & Media, European Commission, Belgium

Building Knowledge Capacity in Southern Africa
Helena Tapper, Embassy of Finland, South Africa

Discussion

| 16:00 Workshop 4b | eHealth - Integrated District Health Information Systems in Africa II |

Chair: Jørn Braa, University of Oslo, Norway

Integrating software to monitor HIV/AIDS: The case of eBHRIMS in Botswana
Johan Saebo, University of Oslo, Norway

From User Training to In-Service Support
Jens Kaasbøll, University of Oslo, Norway

Using Communities of Practice as a Lens for Understanding Organisational Change
Vincent Shaw, Health Information Systems Programme, Namibia

South-South Collaboration: Adapting Information Systems Integration Strategies in Namibia
Louisa Williamson, University of Oslo, South AfricaDiscussion

| 16:00 Session 4c | Technology Enhanced Learning for Adult Learners |

Fostering Open Educational Practices in Cross-Cultural Contexts
Daisy Mwanza-Simwami, Open University, United Kingdom

Applications of Open Learning Principles for Improving Market/Mechanic Village Schools in South Eastern Nigeria
Benjamin Ogwo, Pennsylvania State University, United States

A Social Network Platform for Vocational Learning in the ITM Worldwide Network
Thierry Nabeth, INSEAD, France

Communities and Meaning: Mashmaking in Africa
June Bam-Hutchison, Museum of London Group, United Kingdom

16:00 Workshop 4d Converging Technical and Non-Technical Consumer Needs in ICT Trust, Security & Dependability across Disciplines

Chair: Ilari Lindy, ENISA, Greece

Identica project - Leveraging Biometrics
Aljosa Pasic, ATOS Origin, Spain

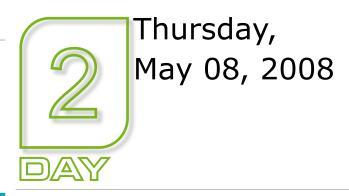**Information Security, Access Controls and the Reliability of Intrusion Detection Systems**
Nhlanhla Mlitwa, Cape Peninsula University, South Africa

Discussion

18:30 - 20:00 Networking Reception   Exhibition & Networking

2 DAY

Thursday, May 08, 2008

09:00 Workshop 5a IST-Africa - Linking European & African Researchers

Chair: Paul Cunningham, IIMC, Ireland

Research Capacity and Challenges in Namibia
John Sifani, Ministry of Education, Namibia

Research Capacity and Challenges in South Africa
Cristina Pinto, Wits Enterprise, South Africa

Research Capacity and Challenges in Botswana
Samuel Bok, Ministry of Communications, Science and Technology, Botswana

Research Capacity and Challenges in Lesotho
Maseqobela WIlliams, Department of Science and Technology, Lesotho

09:00 Session 5b   eHealth - Managing Health Information

Semantic Integration of Medicinal Data
Juha Puustjärvi, Lappeenranta University of Technology, Finland

Factors That Affect Implementing new Medical Information Systems - A Review of Organizational Changing Requirements
Priyanthi Dassanayake, Uva Wellassa University, Sri Lanka

Challenges, Opportunities and Strategies of Implementing GIS for Health Managment in Mozambique
Zeferino Saugene, Universidade Eduardo Mondlane, Mozambique

09:00 Session 5c   Integrating Technology Enhanced Learning in Tertiary and Educational Training

Reflections on the Africa Drive Project: Good Practices in Blended Learning and Technology Usage
Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

The Impact of an Innovative Learning Environment on Student Teachers' Metacognition
Gudula Naiga Basaza, Uganda Martyrs University, Uganda

Factors Influencing the Adoption of Technology Enhanced Learning at the University of Namibia
Tulimevava Mufeti, University of Namibia, Namibia

Students' Perception of e-Learning, WebCT and Adequacy of ICT Infrastructure at the University of Botswana
Isaac Obasi, University of Botswana, Botswana

09:00 Session 5d   eInclusion & eAcessibility

Digital Divide in Sub-Saharan Africa: Survey and Initiatives
Boubakar Barry, Association of African Universities, Ghana

Using a Multi-Criteria Tool for Selecting ICT Development Initiatives
Love Ekenberg, Stockholm University and KTH, Sweden

UNIDO Business Information Centre Model for e-Inclusion & e-Accessibility in Uganda
Barbara Kreissler, UNIDO, Austria

Accessibility Observations of Visually Impaired Users using the South African National Accessibility Portal
Louis Coetzee, Meraka Institute, South Africa

Designing Future Technologies for Disabled People in a Developing Country
Quentin Williams, Meraka Institute, South Africa

09:00 Workshop 5e   Building a Research Network Infrastructure - Lessons learned

Chair: Carmen Mena Abela, European Commission, Belgium

10:30 Coffee Break   Exhibition & Networking

11:00 Workshop 6a   IST-Africa - Linking European & African Researchers

Chair: Anneline Morgan, Department of Science and Technology, South Africa

Research Capacity and Challenges in Mozambique
Lourino Chemane, UTICT, Mozambique

Research Capacity and Challenges in Tanzania
Hamisi Nguli, COSTECH, Tanzania

Research Capacity and Challenges in Uganda
Maxwell Otim, Uganda Council for Science and Technology, Uganda

Research Capacity and Challenges in Kenya
Prof. Crispus Kiamba, Ministry of Science and Technology, Kenya

Discussion and Next Steps

11:00 Session 6b   eHealth - Evaluating Health Delivery Systems

Organizational, Policy and Management Implications for Building a Continental-wide eHealth Network in Africa
Adesina Iluyemi, University of Portsmouth, United Kingdom

Evaluating National Health Information Systems for Developing Countries
Kieran Sharpey-Schafer, University of Cape Town, South Africa

The Emerging ICT Use Patterns for Health Service Delivery in Africa: Evidence from Rural and Urban Setting in Namibia
Meke Shivute, Polytechnic of Namibia, Namibia

Establishing a Biomedical Virtual Organisation through a Portal: Lessons Learned from HEALTHAGENTS
Horacio Gonzalez-Velez, University of Edinburgh, United Kingdom

Some Aspects of e-Health Development as One of the Most Challenging Sectors of the EU Strategy on e-Europe
Dusan Soltes, Comenius University, Slovakia

11:00 Session 6c   Technology Enhanced Learning Case Studies

Chair: Love Ekenberg, Stockholm University and KTH, Sweden

Vision and Challenges of the Information and Learning Resources Centre (ILRC), University of Namibia
Rakel-Kavena Shalyefu, University of Namibia, Namibia

Online Educational Videol Repository for Knowledge-based Training, Innovation and Scientific Research – A Case Study
Davor Orlic, Jozef Stefan Institute, Slovenia

Towards an Affordable Alternative Educational Video Game Input Device
Andrew Smith, Meraka Institute, South Africa

11:00 Workshop 6d   eInclusion – Leveraging Low Cost Devices and Broadband in Rural Communities

Behavioural Changes in the Use of ICTs
Chris Morris, Meraka Institute, South Africa

Digital World Forum: Opportunities and Challenges of Low-Cost Technologies for Africa and Latin America
Segopotso Moshapo, CSIR, South Africa

Digital World Forum: Low cost Computers
Roland Burger, Nematrix, Belgium

Discussion

11:00 Workshop 6e   Building a Research Network Infrastructure - Lessons learned

Chair: Carmen Mena Abela, European Commission, Belgium

12:30 Lunch   Exhibition & Networking

14:00 Session 7a   Digital Content & Digitisation

Crossing the Archival Borders
Fredrik Palm, Umeå University, Sweden

An Ontology-based Similarity Method for Semantic Search
Michele Missikoff, CNR-IASI/LUISS-CeRSI, Italy

Fostering Collaboration with DigitalPreservationEurope
Robert Neumayer, Vienna University of Technology, Austria

A Case for Digitisation of Audiovisual Records in the Uganda Broadcasting Corporation
Elisam Magara, Makerere University, Uganda

14:00 Session 7b   eHealth - Telemedicine Applications & Case Studies

Chair: Gareth MacNaughton, Lane & Hapiak Consulting, United Kingdom

The Role of Outcome Mapping in Developing a Rural Telemedicine System
Edwin Blake, University of Cape Town, South Africa

A Proposal for Mobile Telephony Based Tele-health Services in Africa
George Anogianakis, Aristotle University of Thessaloniki, Greece

PEDITEL Project: a Step for a Telemedicine Network Solution in Angola Exportable to other African Countries
Manuel Dinis, PT Inovacao SA, Portugal

14:00 Session 7c   Open Source Software - Applications

Re-pointing the IST Triangle
Tom Kirkham, CCLRC, United Kingdom

The Role of Free and Open Source Software in the Microfinance Sector in Uganda
Joseph Kasumba Ssewanyana, Makerere University Business School, Uganda

Secure Virtual Private Network Implementation Using Open Source Software
Fatuma Simba, University of Dar es Salaam, Tanzania

MobilED: A Server to Assist in Event Tracking by Using Messaging Technologies
Francois Aucamp, Meraka Institute, South Africa

14:00 Workshop 7d   African Network of Living Labs I

Chair: Adam Turowiec, ITTI, Czech Republic

Living Lab Methodology Concept and Development of the European Network of Living Labs
Adam Turowiec, ITTI, Czech Republic

Stimulating the Development of Networked Enterprises: the Added Value of Collaborative Procurement in Rural South Africa
Christian Merz, SAP AG, Germany

Open SOA Value Add for Collaborative Services Delivery to Rural SMMEs
Rudi de Louw, SAP Research CEC PTA, South Africa

14:00 Workshop 7e   Building a Research Network Infrastructure - Lessons learned

Chair: Carmen Mena Abela, European Commission, Belgium

15:30 Coffee Break   Exhibition & Networking

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16:00 Session 8a Networked Enterprise

Monitoring e-Business Readiness of European Enterprises Using Composite Indicators
Stefano Tarantola, Joint Research Centre of the European Commission, Italy

Towards a SOA and Web2.0-Enabled E-Collaboration Business Model
Ioannis Ignatiadis, Kingston University, United Kingdom

Mobile Payments: A Comparison between Philippine and Ugandan Contexts
Ali Ndiwalana, Makerere University, Uganda

Exploiting Wearable Computing Research Results
Michael Lawo, TZI Universitaet Bremen, Germany

16:00 Workshop 8b eHealth Systems in Low Resource Settings: Proven Practise

Chair: Ulrike Rivett, University of Cape Town, South Africa

Telemedicine for HIV/AIDS Care in Low Resource Settings: Proven Practises
Maria Zolfo, Institute of Tropical Medicine, Belgium

ICT-systems for HIV/AIDS management: Plug and Play?
Ulrike Rivett, University of Cape Town, South Africa

Scalable Models for Establishment of Sustainable Broadband Services in Rural Areas of Developing Regions
Bjorn Pehrson, KTH, Sweden

Discusssion

16:00 Workshop 8c FlossInclude

Chair: Karsten Gerloff, UNU-MERIT, Netherlands

Free Software as a Tool for Social and Economic Development - the FLOSSInclude Project
Karsten Gerloff, UNU-MERIT, Netherlands

Title to be confirmed
Dorothy K. Gordon, Ghana India Kofi Annan Centre of Excellence in ICT - Advanced Information Technology Institute (AITI-KACE), Ghana

From ICT Policy to Effective Implementation; What Role for Civil Society in Cross-sectoral Collaborations
Joris Komen, SchoolNet Namibia, Namibia

Capacity Building in Software Engineering through FOSS in Africa
Prof. Derek W. Keats, The University of the Western Cape, South Africa

Discusssion

16:00 Workshop 8d African Network of Living Labs – Future is Here

Chair: Adam Turowiec, ITTI, Czech Republic

Development of Rural Areas Through Inclusive Education and Research on the Example of the Soshanguve L
J. Zaaiman, Tshwane University of Technology, South Africa

ERP Process Modelling for Rural c-Governance - A Living Lab Approach
Potjie van der Walt, Tshwane University of Technology, South Africa

Presenting a Knowledge Support Portlet as part of a collaborative Educational Community Learning Area
Bertie Buitendag, Tshwane University of Technology, South Africa

Discusssion

16:00 Workshop 8e Building a Research Network Infrastructure - Lessons learned

Chair: Carmen Mena Abela, European Commission, Belgium

17:30 - 18:00 Exhibition & Networking

09:00 Workshop 9a eGovernment - Leveraging ICT for Governance

Chair: Henry Alamango, COMNET-IT, Malta

ICTs for Good Governance – Experiences from Africa, Latin America and the Caribbean
Kristina Mlikota, UNESCO, France

Corporate and IT Governance in Local Municipalities - Towards a Best Practice
Rossouw Von Solms, Nelson Mandela Metropolitan University, South Africa

Arguing for Enhancing Public Service Efficiency and Effectiveness Through e-Government: The Case of Zimbabwe
Ephias Ruhode, Cape Peninsula University of Technology, South Africa

Improving Government Administrative Employees' Work Conditions through ICTs is Paramount to Enabling the Emergence of Administrative eGovernance
Moi Gianfranco, Ville de Lausanne, Switzerland

Mobile Instant Messaging – The "Killer Application" for e(m)Government in Africa?
Merryl Ford, Meraka Institute, South Africa

09:00 Session 9b eInfrastructures

Creating and Operating a Regional Grid Infrastructure: a Use Case from Latin America
Bernard Marechal, Universidade Federal do Rio de Janeiro, Brazil

The UbuntuNet Alliance for Research and Education Networking: One More Piece in the Puzzle
Margaret Ngwira, UbuntuNet Alliance for Research and Education Networking, Malawi

Capacitating Science Infrastructure for ICT4D Sustainability Growth in Africa: A Policy Re-think
Kelvin Joseph Bwalya, Zambia Research and Development Centre, Zambia

Developing the National R&D Information Management System for Science and Technology in Uganda: A Proposal
Elisam Magara, Makerere University, Uganda

09:00 Workshop 9c CAAST-Net: Coordination and Advancement of Africa-EU Science & Technology Cooperation

09:00 Session 9d eInclusion – Using ICT to Support Rural Communities

Towards a Modelling Framework for Information and Communication Technology Use in Commercial Agriculture: Significant Factors in a Developing Country
Rachael Tembo, Cape Peninsula University of Technology, South Africa

Using ICTs for Managing Network Genebanks: The Case of SADC Plant Genetic Resources Centre
Barnabas Kapange, SADC Plant Genetic Resources Centre (SPGRC), Zambia

Access to Digital Content and Information in Developing Countries: the Case of Agricultural Research and Development in Uganda
Raphael Aregu, University of Groningen/Gulu University, Netherlands

ICT as an Enabler for Maximising the Local Economies of Small-town, Rural Africa
Roger Layton, Roger Layton Associates (Pty) Ltd, South Africa

Internet in Rural areas of Zambia: A User Study
Paula van Hoorik, TNO, Netherlands

[8 - 9] A d v a n c e P r

10:30 Coffee Break   Exhibition & Networking

11:00 Session 10a   eGovernment - Applications

Chair: Gareth MacNaughton, Lane & Hapiak Consulting, United Kingdom

Moving to eParliament Schemes: Challenges and Barriers from the Introduction of ICT in the Everyday Functioning of Parliaments
Evika Karamagioli, Gov2u, Greece

PDAs to Support Bi-directional Decision Making Process: Case of MPs in Tanzania
Zuberi Kirondomara, University of Joensuu, Republic of Tanzania

E-Government in the Public Service of Namibia: A Records Management Perspective
Cathrine Tambudzai Nengomasha, University of Namibia, Namibia

A Proposed Implementation of SAML V2.0 in an e Government Setting
Carina Wangwe, Parastatal Pensions Fund, United Republic of Tanzania

eGovernment and Sociotechnical Feedback Control System
Lourino Chemane, ICT Policy Implementation Technical Unit (UTICT), Mozambique

11:00 Session 10b   eInfrastructures 2: Leveraging Telecommunications

Hybrid Satellite-wireless Solutions for Broadband Coverage in Rural and Remote Areas: from TWISTER to NeT-ADDeD
Maria Zapata Margeli, ASTRIUM SAS, France

Towards a Viable Broadband Solution in Southern Africa: the Potential of WiMAX Technology
Maghmuda Ockards, CPUT, South Africa

6DEPLOY: IPv6 Deployment Support
Martin Potts, Martel, Switzerland

11:00 Workshop 10c   Challenges and Opportunities for African-European ICT Partnerships in FP7

Connecting Sub-Saharan Africa & the European Union for ICT partnerships under FP7 - The EuroAfrica-ICT Project
Rebecca Naidoo, Meraka Institute, South Africa

ESASTAP (European-South African Science and Technology Advancement Programme)
Mabatho Mphomane, Department of Science and Technology, South Africa

ST-EAP (Science Technology-Europe Africa Project)
Nomkhosi Mvubelo, CSIR, South Africa

Discussion

11:00 Session 10d   ICT for Environmental Risk Management

Chair: Guy Weets, Public Safety Communication Forum Europe & Integrated Risk Management for Africa IRMA Project, Belgium

The TALOS Project in Disaster Management and Delivery of Urgent Information
Manolis Stratakis, FORTHnet, Greece

An MPEG-7 Inspired Metadata Description of Thermal Videos for Rescue Operations using Anthropocentric Description Schemes
Nicholas Vretos, Aristotle University of Thessaloniki, Greece

Uniform Research Management
Karel Charvat, Wirelessinfo. Czech Republic

Humboldt for Forestry Data Harmonisation
Otakar Cerba, Czech Centre for Science and Societyo. Czech Republic

Dynamic Geospatial Infrastructure for Forest Fires
Karel Charvat, Wirelessinfo. Czech Republic

ICT for ERM - A Sustainable Approach for Africa
Guy Weets, Public Safety Communication Forum Europe & Integrated Risk Management for Africa IRMA Project, Belgium

12:30 Lunch   Exhibition & Networking

13:30 Closing Plenary 12a

ARAPKE Flagship Projects
Dr Hakim Elwaer, Director, HRST, African Union Commission

Overview of the ICT Activities supported by NEPAD S&T and Flagship Projects
Dr John Mugabe, NEPAD S&T

UNECA's ICT and Science & Technology Programme: Supporting the Development of ICT National Strategies
Aida Opoku-Mensah, United Nations Economic Commission for Africa, Ethiopia

UNESCO Virtual Campus of Universities for Africa
Dr Shamila Nair-Bedouelle, Division of Science Policy and Sustainable Development, UNESCO

How SPIDER Makes Knowledge More Accessible to Developing Regions
Magda Berhe, The Swedish Program for ICT in Developing Regions

Best Paper Award
Best Demonstration Stand Award

Formal Closing of Conference

The Programme is subject to change without notice at the discretion of the International Programme Committee Chair. The Final Programme will be published in April. Please view the Online Programme for the most up-to-date information.

Registration Information

It is necessary for all **IST-Africa 2008** delegates to register online. Each delegate should be registered separately.

Conference Fees

Authors Fees (Due by 14 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 14 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 15 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

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

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

EU Candidate Countries (3) Croatia, Turkey.

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

Caribbean and Pacific Countries (Antigua and Barbuda, Bahamas, Barbados, Belize, Cuba, Dominica, Domican 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 2008** must complete their payment registration by **14 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 Exibitors (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 2008 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 06 May from 16:00 to 19:00 and will remain open during normal conference hours from 08:00 on Wednesday.

Major Places of Interest

Windhoek is the capital of Namibia. The city centre is quite compact and it is possible to walk to all major sites. Walking Tours are available from the Tourist Information office.

While in Windhoek, delegates and accompanying persons should ensure they visit the Christuskirche; St Georges Cathedral, Das Reiterdankmal, Tintenpalast, Alte Feste, Zoo Park, Independence Avenue and Clock Tower, the Namibian Craft Centre and Daan Viljoen Game Park (20km east of Windhoek).

After the conference, delegates should also try to visit Swakopmund, Walvis Bay, Skeleton Coast and Etosha National Park.

Climate

Average temperatures in Windhoek in May are temperate, ranging from 12 to 23 degrees Celsius.

Social Programme

The Social Programme is an integral part of the **IST-Africa 2008** Conference.

The conference organisers also wish to ensure that partners accompanying conference delegates have fun and feel part of the IST-Africa Community.

Networking Reception

The IST-Africa Consortium are pleased to announce that a Networking Reception will be held in the **IST-Africa 2008 Exhibition** area in the WindhoekCountry Club on Wednesday 07 May, from 18:30 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.

Partners' & Post Conference Social Programme

During the three days of the conference, a partners' programme will be organised, subject to sufficient demand. If you intend to bring an accompanying person with you to Namibia, please confirm this as part of the online registration process.

If your accompanying person would like to have the option to book tours during the conference, please contact the Conference Secretariat at **secretariat@IST-Africa.org**

Further details on Post Conference Tours will be published on the **IST-Africa 2008** Conference Portal in March.

Visa Information

Nationals from the countries listed below are not required to obtain Visas to travel to Namibia for visits shorter than three months: Angola, Australia, Austria, Belgium, Botswana, Brazil, Canada, Cuba, Denmark, Finland, France, Germany, Hong Kong (SAR), Iceland, Ireland, Italy, Japan, Kenya, Lesotho, Liechtenstein, Luxembourg, Macau (SAR), Malaysia, Malawi, Mozambique, New Zealand, Netherlands, Norway, Portugal, Russian Federation, South Africa, Singapore, Spain, Swaziland, Sweden, Switzerland, Tanzania, United Kingdom, United States of America, Zambia and Zimbabwe.

Conference delegates from other countries should contact the nearest Namibian Embassy six to eight weeks prior to travelling to determine if it is necessary for you to apply for a visa in advance.

If you are travelling via another African country to get a connecting flight to Windhoek, please check well in advance if you need a visa for this country.

The **IST-Africa 2008** 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. Conference delegates who intend to travel to Etosha National Park are recommended to bring malaria tablets with you. Whatever tablets you use, remember to complete the course as directed after leaving the malaria area. It is a good idea to check with your personal physican or travel health clinic four to six weeks prior to travelling, outlining where in Namibia and Southern 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, promote participation of African organizations in the ICT Theme of FP7 and identify 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), Ministry of Communications, Science and Technology (Botswana), Ministry of Communications, Science and Technology (Lesotho), Commonwealth Network of Information Technology for Development (Malta), ICT Policy Implementation Technical Unit (Mozambique), Ministry of Education (Namibia), Wits Commercial Enterprise (Pty) Ltd (South Africa), COSTECH - Tanzania Commission for Science and Technology, and Uganda National Council for Science and Technology.

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Exhibition and Posters

IST-Africa 2008 features an Exhibition, which provides the opportunity to showcase research results and applications through technology demonstrations, whether funded commercially or at national, regional or European level. While some space will be offered for posters, most of the Exhibition will be reserved for innovative technology demonstrations.

Demonstration stands are reserved for live technology demonstrations, but can feature early prototypes or a pre-commercial launch to a highly targeted, knowledgeable community.

Participation in the Exhibition is rewarding, as it provides a valuable opportunity to make international contacts and to build relationships with potential partners or clients from around the world.

To maximise demonstration and networking opportunities for exhibitors, all coffee breaks and the Networking Cocktail are held in the Exhibition area.

The **IST-Africa** Consortium is sponsoring a limited amount of exhibition space for suitable demonstrations and posters at **IST-Africa 2008** under a Competitive Call for Exhibitors. Potential exhibitors will be selected based on the quality and relevance of their submission to the conference themes, with preference given to those presenting innovative technology demonstrations. To access the Exhibition Application Form online, please visit

www.IST-Africa.org/Conference2008

Applications will be accepted up to **28 March**. All applicants who apply via the Competitive Call will receive feedback by **31 March**. Successful applicants must complete payment registration by **07 April**, if they have not already done so either as an Author, or as a delegate taking advantage of the Early Bird rate.

Since the level of competition for available exhibition stands is likely to be high, applicants are advised to clearly describe what they plan to demonstrate and the potential interest/value add for conference delegates.

General Terms & Conditions for Exhibitors

1. All demonstration stands must be manned during specific exhibition times (10:30 - 11:00, 12:30 - 14:00, 15:30 - 16:00 and on Wednesday 07 May during the Networking Reception from 18:00 - 20:00).

2. While the **IST-Africa** Consortium is sponsoring basic demonstration and poster space, all exhibitors (demonstration stand or poster space) must register and pay as a conference delegate by **26 March**.

3. PCs, monitors and Internet access are additional cost items which are not sponsored. Each exhibitor is directly responsible for ordering and paying for such services, if required, with relevant local suppliers.

4. Stand material, posters and literature should be put in place between 16:00 - 19:00 on Tuesday 06 May or before 08:30 on Wednesday 07 May. Nothing should be removed before 15:00 on Friday 09 May. Exhibitors must remove all materials from their stands between 16:00 - 17:30 on Friday 09 May.

5. Material may be removed if the content or quality is not regarded as suitable by the **IST-Africa 2008** Organising Committee.

6. While security staff will be present and the conference will not be open to the general public, the organisers cannot take responsibility for any losses incurred and exhibitors should ensure that they have sufficient insurance cover.

The Conference Programme is subject to change at the discretion of the International Programme Committee Chair. You should always refer to the Conference Portal for the most up to date information. The **IST-Africa** Consortium is sponsoring an award for the best conference paper and an award for the best demonstration stand at the Exhibition.

Conference Portal & Delegate Showcase
www.IST-Africa.org/Conference2008

IST-Africa 2008 Additional Supporting Organisations