

# IST-Africa 2012 Final Programme

*Tanzania*

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9 - 11 May 2012

ISTOfrica

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Support Organisations

TANZICT.or.tz  
Information Society and ICT Sector Development Project

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# Introduction

**IST-Africa 2012** Conference & Exhibition takes place 09 - 11 May 2012 in Dar es Salaam, Tanzania. Part of the **IST-Africa Initiative**, which is supported by the European Commission under the ICT Theme of Framework Programme 7 (FP7), **IST-Africa 2012** is the seventh 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 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 and support the implementation of the 8th Africa-EU Strategic Partnership.

Hosted by the Government of Tanzania through the Tanzania National Commission for Science and Technology (COSTECH) and Technically Co-Sponsored by IEEE, **IST-Africa 2012** 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, Open Source Software, ICT for eInclusion and eAccessibility, eInfrastructures, RFID and ICT for Networked Enterprise and eGovernment and eDemocracy. **IST-Africa 2012** 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 2012** will also provide an opportunity to identify potential partners for future proposals under Horizon 2020, the follow on programme to FP7.

**IST-Africa** directly supports the goals of the 8th Africa-EU Strategic 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, and to support International Cooperation and open up the European Research Area (ERA) to Africa.

## Who will you meet?

**IST-Africa 2012** 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 2012** 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 FP7 ICT Programme.

## The Venue

**IST-Africa 2012** Conference & Exhibition takes place in the Kunduchi Beach Hotel, Dar es Salaam. The hotel is located 24 kms from the city centre and 18kms from the airport, beside the beach.

## 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 48 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 Networked Enterprise, 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 09 May features a high level dialogue on Implementation of the 8th Africa-EU Strategic Partnership on Science, Information Society and Space. The Closing Plenary on Friday 11 May focuses on Initiatives Supporting Development of Regional S&T.

The programme is subject to change and the **IST-Africa 2012** Organising Committee reserves the right to alter the contents, venue and/or speakers. This Programme is accurate as at 30 April 2012.

## 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.

## Joint Expert Group of the 8th Africa-EU Strategic Partnership

The Joint Expert Group (JEG8) for the 8th Africa-EU Strategic Partnership for Science, Information Society and Space is being hosted by the Government of Tanzania through the Tanzania Commission for Science and Technology in association with IST-Africa 2012.

The JEG8 Meeting will be officially opened on Tuesday, 08 May from 09:00 – 11:00am, followed by two parallel tracks focused on Information Society and Space from 11:30 – 18:00 - IST-Africa Living Labs Thematic Working Group Meeting (organised by the IST-Africa Initiative) and GMES & Africa Workshop (organised by BRAGMA)

There is limited space in both tracks. It is necessary for all participants to be pre-registered.

## IST-Africa Living Labs Thematic Working Group, 08 May

The IST-Africa Living Labs Thematic Working Group Meeting is participatory in nature and requires participation for the full day (11:30 - 18:00).

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

**IST-Africa 2012** delegates are invited to pre-register for this meeting as part of online registration.

## Conference Proceedings

The **IST-Africa 2012** 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.

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 Dar es Salaam. 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 Kunduchi Beach Hotel (conference venue). The Kunduchi Beach is located 50 minutes drive from the city centre.

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

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

[www.IST-Africa.org/Conference2012](http://www.IST-Africa.org/Conference2012)

## How to get there

Dar es Salaam is located approximately four hours by air from Johannesburg and less than 90 minutes by air from Nairobi. While there are some direct flights to Dar es Salaam, there are additional flights routed through Nairobi. Delegates are advised to book flights and accommodation as early as possible.

## Support Organisations

The **IST-Africa Initiative (2012 - 2013)** is co-funded by the European Commission through FP7.

**IST-Africa 2012** is hosted by the Government of Tanzania through the Tanzania National Commission for Science and Technology (COSTECH).

Other Support Organisations include the TANZICT Information Society and ICT Sector Development Project, NOKIA and Uhuruone.

For further information, please contact the Conference Secretariat at [secretariat@IST-Africa.org](mailto:secretariat@IST-Africa.org)

## Plenary Session Speakers



Hon. Prof. Makame Mbarawa  
Minister of Communications, Science and Technology



Dr. Florens Turuka  
Permanent Secretary, Ministry of Communications, Science and Technology



Dr. Hassan Mshinda  
Director General, Tanzania Commission for Science and Technology



Kostas Glinos,  
HoU GEANT & e-Infrastructures, DG Information Society and Media, European Commission



Ambassador Sinikka Antila  
Embassy of Finland



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



Mr Jerome Morrissey  
CEO, GESCI, Kenya



Dr Jyrki Pulkkinen  
Ministry for Foreign Affairs, Finland



Jussi Hinkkanen  
Vice President, Nokia Middle East & Africa

Keynote Speakers confirmed as at 30 April 2012 include:

- **H.E Mohammed Gharib Bilal**, Vice President of Tanzania
- **Hon. Prof. Makame Mbarawa**, Minister of Communications, Science and Technology
- **Dr Florens Turuka**, Permanent Secretary, Ministry of Communications, Science and Technology
- **Dr Hassan Mshinda**, Director General, Tanzania National Commission for Science and Technology
- **Mr Kostas Glinos**, Head of Unit GEANT & e-Infrastructures, DG Information Society and Media, European Commission
- **Mr Moctar Yedaly**, Head of Information Society Division, African Union Commission
- **Dr Rached Hamza**, DG, CERT & African Co-chair of the Africa-EU 8th Partnership
- **Prof Luis Magalhães**, European Co-Chair of the Africa-EU 8th Partnership, Portugal
- **Prof John S Nkoma**, Director General, Tanzania Communications Regulatory Authority
- **Mr Enrico Strampelli**, Head of Operations, European Delegation
- **Ambassador Sinikka Antila**, Embassy of Finland, Tanzania
- **Ambassador Lennarth Hjelmåker**, Embassy of Sweden, Tanzania
- **Mr Jerome Morrissey**, CEO, GESCI, Kenya
- **Dr Jyrki Pulkkinen**, Senior Adviser, Information Society & STI for Development, Ministry for Foreign Affairs of Finland
- **Prof. Samuel Wangwe**, Executive Secretary, Research on Poverty Alleviation (REPOA), Tanzania
- **Mr. Anthony Maduekwe**, Program Specialist, UNESCO, Tanzania
- **Mr Jussi Hinkkanen**, Vice President, Corporate Relations and Business Environment, Nokia Middle East and Africa
- **Catherinerose Barretto**, KINU, Tanzania
- **Ms Fadila Boughanemi**, International Relations, DG Research, European Commission
- **Mr Moses Bayingana**, ICT Expert, Information Society Division, African Union Commission
- **Kristiina Lahde**, Chief Technical Advisor, TanzICT Programme, Tanzania
- **Philippe Dongier**, World Bank, Tanzania
- **George Mulamula**, DTBi, Tanzania

## 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 2012** International Programme Committee includes

- **Paul Cunningham**, IIMC, Ireland (Conference Chair)
- **Prof. Jørn Braa**, Oslo University, Norway
- **Dr Bruce Becker**, Meraka Institute, CSIR / South Africa National Grid, South Africa
- **Laurens Cloete**, Meraka Institute, South Africa
- **Miriam Cunningham**, IIMC, Ireland
- **Kim Davis**, Research Council of Norway
- **Prof. Love Ekenberg**, University of Stockholm, Sweden
- **Prof. Marlien Herselman**, Living Labs of Southern Africa Network
- **Dr. Faraja Igira**, Institute of Finance Management, Tanzania
- **Dr. Mike Joy**, University of Warwick, UK
- **Prof. Bernhard Katzy**, CeTIM, The Netherlands
- **Vasilis Koulolias**, Gov2U, Greece
- **Kristiina Lahde**, TANZICT Programme, Tanzania
- **Ilari Lindy**, World Bank, United States
- **Dr. Edda Tandi Lwoga**, Muhimbili University of Health and Allied Sciences, Tanzania
- **Prof. Maurice Mars**, University of KwaZulu-Natal, South Africa
- **Dr. Raphael Mmasi**, Tanzania Commission for Science and Technology (COSTECH)
- **Prof. Nerevi Mvungi**, College of Informatics and Virtual Education, The University of Dodoma, Tanzania
- **Loi Namugenyi**, Uganda National Council for Science & Technology
- **Edephonc N. Nfuka**, University of Dar es Salaam Computing Centre, Tanzania

Tanzania

- **Dr. Amos Nungu**, Dar es Salaam Institute of Technology, Tanzania
- **Maggy Pézeril**, Pôle Universitaire Européen, France
- **Matti Sinko**, UNECA, Ethiopia
- **Bernard Stevenot**, SpaceBel, Belgium
- **Richard Stevens**, Italy
- **Prof. Andrew B. M. Swai**, Ministry of Health and Social Welfare, Tanzania
- **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
- **Dr. Zaipuna Yohan**, Ministry of Communications, Science and Technology, Tanzania

## Organising Committee

- **Miriam Cunningham**, IIMC, Ireland
- **Paul Cunningham**, IIMC, Ireland
- **Dr Raphael Mmasi**, COSTECH, Tanzania



## 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](mailto:secretariat@IST-Africa.org)



# Wednesday, May 09, 2012

08:00

Registration

09:00 **Opening Plenary 1a**

Master of Ceremonies: **Innocent Mungu, Tanzania Communications Regulatory Authority**

**Welcome Address**

Dr. Hassan Mshinda, Director General, Tanzania Commission for Science and Technology

**European Commission Address**

Kostas Glinos, European Commission, Belgium

**Welcome Remarks**

Enrico Strampelli, Head of Operations, European Delegation

**Address on behalf of Innovation and Technology Group, Tanzania**

Ambassador Sinikka Antila, Embassy of Finland, Tanzania

**AUC Address**

Moctar Yedaly, African Union Commission, Ethiopia

**Welcome**

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

**Opening Speech**

H.E Mohammed Gharib Bilal, Vice President of Tanzania

10:30

Coffee Break

11:00 **Plenary 2a: High-level Round Table on Implementation of the 8th Africa-EU Strategic Partnership (Science, Information Society and Space)**

Moderator: **Paul Cunningham, IIMC, Ireland**

**Panellists include**

Dr Florens Turuka, Permanent Secretary, Ministry of Communications Science and Technology

Dr. Hassan Mshinda, Director General, Tanzania Commission for Science and Technology

Moctar Yedaly, Head of Information Society Division, African Union Commission

Kostas Glinos, Head of Unit GEANT & e-Infrastructures, DG Information Society and Media, European Commission

Prof John S Nkoma, Director General, Tanzania Communications Regulatory Authority

Dr Rached Hamza, DG, CERT & African Co-chair of the Africa-EU 8th Partnership

Prof. Luis Magalhães, European Co-chair of JEG8, Portugal

Ambassador Lennarth Hjelmåker, Embassy of Sweden, Tanzania

Dr Jyrki Pulkkinen, Senior Adviser, Information Society & STI for Development, Ministry for Foreign Affairs of Finland

Prof. Samuel Wangwe, Executive Secretary, Research on Poverty Alleviation (REPOA), Tanzania

Mr. Anthony Maduekwé, Program Specialist, UNESCO, Tanzania

Jussi Hinkkanen, Vice President, Corporate Relations and Business Environment, Nokia Middle East and Africa

Catherinerose Barretto, KINU, Tanzania

12:30 Lunch

14:00 **Session 3a: Cloud Computing**

Chair: **Laurens Cloete, Meraka Institute, South Africa**

**Standards, Sustainability, Security, Interoperability of Different Clouds**  
Nkundwe Mwasaga, Dar es Salaam Institute of Technology, Tanzania

**Cloud-Based Mobile Computing: An Opportunity for the Next Billion**  
Tommi Mikkonen, Tampere University of Technology, Finland

**Digital Forensic Framework for a Cloud Environment**  
George Sibiyi, CSIR, South Africa

**Presenting a Security Model for Protecting private and personal information in the Cloud**  
Tumelo Malebane, Tshwane University of Technology, South Africa

14:00 **Workshop 3b: ICT Initiatives in Tanzania**

Chair: **Hassan Mshinda, COSTECH, Tanzania**

Initiatives being showcased will include: **National ICT Backbone, eHealth Initiatives, Tanzania Beyond Tomorrow, Super Computing and ICT for Rural Development**

14:00 **Session 3c: eHealth - Telemedicine & Supporting Capacity**

Chair: **Maxwell Otim, Uganda National Council for Science & Technology**

**The Opportunities of Exploiting Cloud Computing in Telemedicine: A Developing Country Perspective**

Juha Puustjärvi, Aalto University, Finland

**Building Sustainable Capacity for Health Research in Africa through Cloud Computing Applications**

Ana Jimenez-Castellanos, Universidad Politécnica de Madrid, Spain

**Critical Success Factors for the Successful Implementation of Telemedicine in the Eastern Cape, South Africa**

Liezel Cilliers, Fort Hare University, South Africa

**SAHEL: A Comprehensive Telemedicine Demonstration Programme to Connect Remote Health Centres in Africa**

Ghislain de la Sayette, Astrium, France

**eHealth Initiatives in Malawi**

Yamiko Msosa, Baobab Health, Malawi

14:00 **Session 3d: Technology-Enhanced Learning**

Chair: **Kristiina Lahde, TanzICT Programme, Tanzania**

**Emerging Technologies, Innovative Teachers and Moral Cohesion**

Jacqueline Batchelor, University of Pretoria, South Africa

**Towards a Sustainable Model for Volunteer, Mobile, Online Tutoring in Mathematics**

Laurie Butgereit, Meraka Institute, South Africa

**Central Questions of ICT & Ethics: IT Ethics Course Design in Tanzania**

Matti Tedre, Stockholm University, Sweden

**Use of Semantic Web Technologies in IK Management Systems**

Thomas Fogwill, CSIR Meraka Institute, South Africa

14:00 **Session 3e: eGovernment**

Chair: **Mmboneni Muofhe, Department of Science & Technology, South Africa**

**M-governance: Exploratory Survey on Kenyan Service Delivery and Government Interaction**

Angela Crandall, iHub Research, Kenya

**Towards Effective E-Government for Africa**

Aneerav Sukhoo, Central Informatics Bureau, Mauritius

**Archives and Digital Repositories in an eGovernment Context: When the Subsequent Bird Catches the Worm**

Hannes Kulovits, Vienna University of Technology, Austria

**The Information Systems Interoperability Maturity Model (ISIMM): Towards Standardizing Technical Interoperability and Assessment within Government**

Jameson Mbale, University of Namibia

**An Object-Oriented Data Model for Development Projects Monitoring in Mafeteng Local Government**

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

14:00 **Workshop 3f: Accessible Mobile Phone Applications and Developers Tools for All**

Chair: **Maria Panou, Centre for Research and Technology Hellas, Greece**

**Creating Accessible Applications for Android: from the Developer Perspective to the User Needs**

Maria Fernanda Cabrera-Umpierrez, Polytechnic University of Madrid, Spain

**Personalised Guidance on the Mobile Phone for Travellers in Emergency Situations**

Maria Panou, Centre for Research and Technology Hellas, Greece

**Integrating Accessibility into Mobile Devices and Connecting it to the Cloud: A Java Mobile example**

Jon Azpiroz, Vodafone Spain Foundation, Spain

**Evaluation of accessible mobile applications following an iterative UCD plan**

Maria Gkemou, CERTH/HIT, Greece

**Mobile Applications for Elderly with Disabilities**

Evangelos Bekiaris, Centre for Research and Technology Hellas, Greece

15:30

Coffee Break

16:00 **Workshop 4a: Finnish - African Cooperation Programmes**

Chair: **Kristiina Lahde, TanzICT Programme, Tanzania**

**ICT and Innovation in Finland's Development Policy in Africa**

Jyrki Pulkkinen, Ministry for Foreign Affairs of Finland

**Cooperation between ECA and Finland on ICT Development in Africa Programme: Insights and Lessons Learned**

Matti Sinko, Technical Advisor, UNECA, Ethiopia

**Southern Africa Innovation Support Programme SAIS - Progress and lessons learnt**

Juha Miettinen, SAIS Programme

Programme of Cooperation in Science, Technology and Innovation  
between Finland and Mozambique STIFIMO - Progress and lessons learnt  
Erkki Sutinen, STIFIMO, Mozambique  
The Information Society and ICT Sector Development Project in Tanzania  
TANZICT - Progress and lessons learnt  
Kristiina Lähde, TANZICT, Tanzania  
Finnish Business Partnership Programme  
Maija Hyypiä, Finnpartnership, Finland

16:00 Workshop 4b: [IST-Africa - Linking European and African Researchers I](#)

Chair: [Paul Cunningham, IIMC Ltd, Ireland](#)

**ICT WP2013 - Overview and Opportunities**  
Klaus Pendl, European Commission, Belgium  
**ICT Initiatives and Research Capacity in Tanzania**  
Raphael Mmasi, COSTECH, Tanzania  
**ICT Initiatives and Research Capacity in Uganda**  
Maxwell Otim, Uganda National Council for Science & Technology  
**ICT Initiatives and Research Capacity in Kenya**  
Jacob Njagi, Ministry of Higher Education, Science and Technology, Kenya  
**ICT Initiatives and Research Capacity in Burundi**  
Augustin Nsabyumva, Ministry of Higher Education and Scientific Research, Burundi  
**ICT Initiatives and Research Capacity in Ethiopia**  
Abdissa Yilma Tiky, Ministry of Science and Technology, Ethiopia

16:00 Session 4c: [eHealth - Health Information Systems](#)

Chair: [Harry de Backer, EU Delegation to the African Union](#)

**Strengthening ICT based Health Information System (HIS) in Tanzania: The Need for HIS Policy**  
Honest Kimaro, University of Dar es Salaam, Tanzania  
**The Significance of Effective Information Systems (IS) in Health Services in Tanzania**  
Resty Mushi, University of KwaZulu-Natal, South Africa  
**National Roll out of District Health Information Software (DHIS 2) in Kenya, 2011 – Central Server and Cloud based Infrastructure**  
Ayub Many, Ministry of Public Health and Sanitation, Kenya  
**Review of Approaches Used in the Implementations of Electronic Medical Records in Tanzania**  
Sunday Morabu, SoftMed Co Ltd, Tanzania  
**Health Informatics Education in Africa through Problem Based Learning and On-line Delivery - A Project Proposal**  
Mona Lisa Dahms, Aalborg University, Denmark

16:00 Session 4d: [Technology-Enhanced Learning & ICT Skills](#)

Chair: [Gift Kadzamura, National Commission for Science and Technology, Malawi](#)

**An eEcosystem Driven Next Generation Life Long Learning Approach**  
Atis Kapenieks, Riga Technical University, Latvia  
**Situation Analysis of the Availability and Application of ICT Facilities and Services among Teachers' Colleges in Tanzania**  
Julius Tweve, Tumaini University, Tanzania  
**ICT Skills Development: EDUEgypt Case Study**  
Neveen Saied, Information Technology Institute, Egypt

16:00 Session 4e: [eGovernment – Case Studies](#)

Chair: [Edephonce Nfuka, University of Dar es Salaam Computing Centre, Tanzania](#)

**Evaluation of Government Websites for Business Development Services (BDS) in Tanzania**  
Juma Mdimu, Ruaha University College, Tanzania  
**A Consumer Based Model for Adoption of E-Tax Services in Uganda**  
Gilbert Maiga, Makerere University, Uganda  
**Deterrents to Using Government Web sites in Uganda**  
Flavia Kyeyago, Uganda Bureau of Statistics, Uganda

16:00 Session 4f: [eInfrastructure](#)

Chair: [Zaipuna Yonah, Ministry of Communications, Science and Technology, Tanzania](#)

**Opportunities created by AfricaConnect**  
Kostas Glinos, European Commission, Belgium  
**Tanzania High Speed Broadband Network for Research and Education Facilities connected to Geant 2**  
Raphael Mmasi, COSTECH, Tanzania  
**African Great Lakes Rural Broadband Research Infrastructure**  
Julianne Sansa-Otim, Makerere University, Uganda  
**Simplified Gateway Selection in Integrated VANET-UMTS Heterogeneous Wireless Network**  
Rashid Saeed, Sudan University of Science and Technology, Sudan  
**Mobile Network Propagation Prediction Models in Ethiopia: Urban, Sub-Urban and Rural Area**  
Ashagrie Getnet, Ethio Telecom, Ethiopia

17:30 [End of Parallel Sessions](#)



Thursday,  
May 10, 2012

09:00 Session 5a: [Internet of Things](#)

Chair: [Richard Stevens, Italy](#)

**Positioning Internet of Things Application, and Associated Human Behavioural Changes in a Developing Context**  
Louis Coetzee, Meraka Institute, CSIR, South Africa  
**Novel IoT Services and Applications for Society, Business and People**  
Nkundwe Mwasaga, Dar es Salaam Institute of Technology, Tanzania  
**Interfacing (IoT) Technologies, XMPP and Twitter to Reduce Inventory Management Inaccuracy**  
Sizakele Mathaba, CSIR, South Africa  
**The Internet of Things in Bridging the Gap in Municipal Service Delivery in South Africa**  
Nomusa Dlodlo, Meraka Institute, CSIR, South Africa

09:00 Workshop 5b: [IST-Africa - Linking European and African Researchers II](#)

Chair: [Paul Cunningham, IIMC Ltd, Ireland](#)

**ICT Initiatives and Research Capacity in Tunisia**  
Ministere de l'Enseignement Supérieur et de la Recherche Scientifique, Tunisia  
**ICT Initiatives and Research Capacity in Egypt**  
Inas Fateem, Ministry of Communications & IT, Egypt  
**ICT Initiatives and Research Capacity in Senegal**  
Toumane Doumbouya, Ministère de l'Enseignement Supérieur, des Universités et des Centres Universitaires Régionaux et de la Recherche Scientifique, Senegal  
**ICT Initiatives and Research Capacity in Ghana**  
Ministry of Environment, Science and Technology, Ghana  
**ICT Initiatives and Research Capacity in Cameroon**  
Njei Check, National Agency for Information and Communication Technologies (ANTIC), Cameroon  
**ICT Initiatives and Research Capacity in Botswana**  
Oabona Monngakgotla, Ministry of Infrastructure, Science and Technology, Botswana  
**ICT Initiatives and Research Capacity in Mauritius**  
Dan Faugoo, National Computer Board, Mauritius

09:00 Session 5c: [M-Health](#)

Chair: [Collins Mushe, Ministry of Education, Namibia](#)

**mHealth in Senegal: The VOICES Project**  
Ralph Ankri, France Telecom, France  
**Buzzenger: Enabling Free Messaging in Emergency Situations**  
Brian Omwenga, Nokia Research Center, Kenya  
**M-Health Initiatives in Malawi**  
Tiwonge Manda, University of Malawi  
**Collecting Integrated Disease Surveillance and Response Data through Mobile Phones**  
Luba Pascoe, Dar es Salaam University College of Education, Tanzania

09:00 Session 5d: [Technology-Enhanced Learning - Case Studies](#)

Chair: [Love Ekenberg, Stockholm University, Sweden](#)

**Contextualising ICTs in Education for Developing Countries**  
Gugulethu Baduza, SAP Research, South Africa  
**Automated Topic Spotting Provides Added Efficiency in a Chat Based Tutoring Environment**  
Laurie Butgereit, Meraka Institute, South Africa  
**Developing a Planning and Reflection Tool to Support Learning to Learn Together**  
Rupert Wegerif, University of Exeter, United Kingdom  
**Building a Virtual Academic Library with Web 2.0 Technologies in Tanzania**  
Edda Tandi Lwoga, Muhimbili University of Health and Allied Sciences, Tanzania

09:00 Session 5e: [eGovernment & eDemocracy](#)

Chair: [Zauria Saifodine, National Institute for ICT, Mozam](#)

**Secure e-Government Services: Protection Profile for Electronic Voting – A Case of Tanzania**  
Geoffrey Karokola, Stockholm University, Sweden

**Evolution of eGovernment in Malawi**

Hawa Ndilowe, Office of The President and Cabinet, Malawi

**The ICT Policy and e-transparency in Tanzania**

Edison Lubua, Mzumbe University, Tanzania

**ICT for Enhanced Governance and Development in Africa: The Potential of Debt-for-Development Exchanges**

Emmanuel Laryea, Monash University, Australia

09:00 Session 5f: **Broadband Access and its Exploitation for Development in Africa**

Chair: **Iman Abdelrahman, Sudanese Research and Education Network, Sudan**

**Donor Interventions in sub-Sahara Africa: Who Does What and Where in ICT/Infrastructures?**

Vasilis Koulolias, Gov2u, Greece

**World Bank Support for Research and Education Networks**

Ilari Lindy, World Bank, United States

**Local Initiatives in Healthcare and Environment**

Donart Ngarambe, KIST, Rwanda, Amos Nungu, DIT, Tanzania and Julianne Sansa-Otim, Makerere University, Uganda

**Research on Rational Drug Management**

Lars L Gustafsson, Karolinska Institutet, Sweden

**The Fiber for Peace Initiative in Somalia**

Bjorn Pehrson, KTH, Sweden

10:30 **Coffee Break**

11:00 Session 6a: **IPv6**

Chair: **Latif Ladid, IPv6 Forum - SnT University of Luxembourg**

**The "Internet of Things" based on IPv6**

Latif Ladid, IPv6 Forum - SnT University of Luxembourg, Luxembourg

**IPv6 Deployment steps in Africa**

Hisham Ibrahim, AfriNIC, Mauritius

11:00 Workshop 6b: **IST-Africa - Linking European and African Researchers II**

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

**ICT Initiatives and Research Capacity in Mozambique**

Zauria Saifodine, National Institute for ICT, Mozambique

**ICT Initiatives and Research Capacity in Namibia**

Florence Kvirindi, Ministry of Education, Namibia

**ICT Initiatives and Research Capacity in Lesotho**

Lieketseng Tjokotsi, Department of Science and Technology, Lesotho

**ICT Initiatives and Research Capacity in South Africa**

Isaac Maredi, Department of Science & Technology, South Africa

**ICT Initiatives and Research Capacity in Swaziland**

Moses Vusmuzi Zungu, Ministry of Information Communication Technology, Swaziland

**EuroAfrica-P8 - Preliminary Results**

Karine Valin, Sigma Orionis, France

**South Africa - Lessons Learnt from ESASTAP 2**

Mamohlong Tihagale, Department of Science and Technology, South Africa

11:00 Session 6c: **eHealth - Case Studies**

Chair: **Andrew B. M. Swai, Ministry of Health and Social Welfare, Tanzania**

**Security, Privacy and Policy in Management of Patients' Data: A Case Study from Malawi**

Dickson Chinguwo, The Malawi Polytechnic, Malawi

**Mobile Phone Technology: A Gateway to Address Gender Obstacles in Improving Access to Reproductive and Child Health Services by Women and their Partners**

Dunstan Bishanga, EngenderHealth, Tanzania

**Challenges in Implementing a Computerized Name - based Information Tracking System: Practical Experiences from Maternal Health Care**

Honest Kimaro, University of Dar es Salaam, Tanzania

**CAPHS: Context Aware Pervasive Healthcare System for HIV/AIDS Patients**

Alemitu Mequanint, Addis Ababa University, Ethiopia

**Communities of Support**

Jay Barnes, Cape Peninsula University of Technology, South Africa

11:00 Session 6d: **Technology-Enhanced Learning in Universities**

Chair: **Abdissa Yilma Tiky, Ministry of Science and Technology, Ethiopia**

**Four Years of IT Program Development in Tanzania**

Josephat Oroma, Tumaini University (Iringa), Tanzania

**A Steady Progress towards E-Learning in Tanzania; The Case of CVL-UDSM**

Hashim Twaakyondo, University of Dar es Salaam, Tanzania

**Towards Guaranteed Quality of Teaching and Learning: The Power of ICT**

Prosper Mafole, University of Dar es Salaam, Tanzania

11:00 Session 6e: **eGovernment & eDemocracy**

Chairs: **Hamisi Nguli, ex COSTECH, Tanzania**

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

Grace Mbwete, Open University of Tanzania, Tanzania

**An Information Sharing System: Case Study of Ministry of Finance, Planning and Economic Development, Uganda**

Justine Juliet Ssempebwa, Ministry of Finance, Uganda

**Legal Challenges for M-Governance in Developing Countries: A Comparison of India and South Africa**

Michel Koekemoer, University of South Africa

11:00 Session 6f: **Capacity Building to Enable Broadband Rollout and Operations**

Chair: **Bjorn Pehrson, KTH, Sweden**

**AfricaConnect: Progress and the Need for Human Capacity**

Iman Abuel Maaly, UbuntuNet Alliance

**Capacity Building Strategy and Programme under AfricaConnect**

Joe Kimaili, UbuntuNet Alliance

**The Global Development Learning Network - opportunities for linkages and exploitation for capacity building**

Charles Y. Senkondo, Tanzania Global Learning Agency (TaGLA), Tanzania

**The Global Technology Transfer Alliance for capacity building (TTA)**

Ramon Wyss, KTH, Sweden

12:30 **Lunch**

14:00 Session 7a: **ICT Entrepreneurship in Tanzania**

Chair: **Jukka Siitanen, TANZICT, Tanzania**

**Inspiration from Ushahidi Project**

Emanuel Feruzi, Trilabs, Tanzania

**ICT Start-up in Tanzania: Giving More for a Brighter Future**

Rugambo Rodney, Giving Inc., Tanzania

**Lessons Learned and Way Forward at Dar Teknohama Business Incubator**

George Mulamula, DTBi, Tanzania

14:00 Session 7b: **8th Africa-EU Partnership - Joint Expert Group**

Chairs **Dr Rached Hamza, African Co-chair JEG8 & Prof. Luis Magalhães, European Co-chair of JEG8**

**Information Society**

Topics to be discussed include

**The New ICT Managerial Aspects within the AUC**

**Implementation Group chaired by the two Commissions**

**Roadmap for the Identification of New Initiatives and Projects**

14:00 Session 7c: **eHealth - Case Studies 2**

Chair: **Edda Tandi Lwoga, Muhimbili University of Health and Allied Sciences, Tanzania**

**Using ICT Innovation to Help Eliminate Diseases of Global Health Importance**

Kseniya Khovanova-Rubicondo, Ashburn Institute, Ukraine

**Experience of Implementing Malaria Sentinel Sites in Mozambique**

Teotónio Fumo, Universidade Técnica de Moçambique, Mozambique

**CorrectoSpecto: Remote Monitoring and Controlling a Patient's Access to Medication**

Andrew Cyrus Smith, CSIR Meraka Institute, South Africa

**CAALYX-MV: Ambient Assisted Living to Market**

Andreu Català, UPC, Spain

**A Concept for a Flexible Rehabilitation Tool for Sub-Saharan Africa**

Henrik Hautop Lund, Technical University of Denmark

14:00 Session 7d: **M-Learning**

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

**Towards a Mobile Learning Curriculum Framework**

Adele Botha, Meraka Institute, South Africa

**Mobile Applications for a Better Education**

Antonio Jose Batel Anjo, Universidade de Aveiro, Portugal

**The Future of Mobile Learning in the Nigerian Education System**

Olalekan Samuel Ogunleye, CSIR, South Africa

14:00 Workshop 7e: **Sensors, Empowerment and Accountability (SEMA): Enhancing the Relationship between Citizens and Government Agencies through Mobile Communications and Web Technology**

Chair: **Benson Bana, University of Dar es Salaam, Tanzania**

**Citizen Reporting as Added Functionality in National Health Information Systems**

Juma Lungo, University of Dar es Salaam, Tanzania

**Context and Semantics for Location Based Analysis of Citizen Reports**

Rob Lemmens, ITC, Netherlands

**Citizen Reporting Behaviour: Contrasting Disaster Response with Public Service Needs**

Jeroen Verplanke, ITC - University of Twente, Netherlands

**Discussion**

14:00 Workshop 7f: **TV White Space Spectrum and Dynamic Spectrum Access: For Improved Rural Wireless Broadband Connectivity**

Chair: **Fisseha Mekuria, CSIR Pretoria, South Africa**

**Enabling Broadband Wireless Access Using Cognitive Radio Technology in TV Whitespace to Provide ICT Services in Rural Tanzania**

John Andrew Msumba, University of Kwazulu-Natal, South Africa

**Setting the Scene for TV White Spaces and Dynamic Spectrum Access in South Africa**

Richard Mokgotlho, ICASA & Fisseha Mekuria, CSIR Pretoria, South Africa

**TV White Spaces for Wireless Broadband in Rural Areas: The Regulator, Broadcaster and Operator Viewpoint**

Luzango Pangani Mfupe, Tshwane University of Technology, South Africa

15:30 Coffee Break

16:00 Session 8a: **ICT Entrepreneurship in Tanzania**

Chair: **Jukka Siltanen, TANZICT, Tanzania**

This session will showcase ten intensive 3-minute pitches from young ICT companies and start-ups, demonstrating a range of business ideas ICT Entrepreneurs in Tanzania are driving forward, followed by discussion.

16:00 Session 8b: **8th Africa-EU Partnership - Joint Expert Group II**

Chairs: **Dr Rached Hamza, African Co-chair JEG8 & Prof. Luis Magalhães, European Co-chair of JEG8**

**Science**

Topics to be discussed include

**EU-Africa S&T High Level Policy Dialogue**

**Action Trails in the Field of Research**

**Roadmap for Encouraging African Participation in FP7 Projects**

16:00 Session 8c: **Living Labs**

Chair: **Marlien Herselman, Meraka Institute, CSIR, South Africa**

**Socio-Economic Impact of Growing Living Labs and Living Labs Networks in Africa**

Marlien Herselman, Living Labs of Southern Africa Network, South Africa

**Living Lab Methodology as an Approach to Innovation in ICT4D: The Siyakhula Living Lab Experience**

Alfredo Terzoli, Rhodes University, South Africa

**m-Living Labs, A Framework for Collaborative Community Advancement**

Adele Botha, Meraka Institute, South Africa

**Enabling Factors for Local Research and Innovation**

Lucy Macharia, Nokia Research Center, Kenya

**Crowdsourcing Ideas for Development**

Mervi Vuori, BIT / Aalto University, Finland

16:00 Session 8d: **M-Learning – Case Studies**

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

**Biased Expectations: User Experience of Pupils Using Mobile-Learning Applications**

Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

**Smartphone application usage amongst students at a South African University.**

Walter Uys, University of the Western Cape, South Africa

**Disruptive e-mobile Learning Model**

Gomang Seratwa Ntloedibe-Kuswani, University of Botswana

**eLearning Platform for University and Secondary School Students Residing in Rural Areas**

Judith Leo, NM-AIST, Tanzania

16:00 Session 8a: **ICT for Environmental Risk Management**

Chair: **Bernard Stevenot, SPACEBEL, Belgium**

**Harnessing Cyber-infrastructure for Local Scale Climate Change Research in Africa**

Anwar Vahed, CSIR, South Africa

**E-Landfill**

Jay Barnes, Cape Peninsula University of Technology, South Africa

16:00 Panel Session 8f: **TV White Space Spectrum and Dynamic Spectrum Access: For Improved Rural Wireless Broadband Connectivity**

Chair: **Bjorn Pehrson, KTH, Sweden**

**Panelists include:**

Prof John S Nkoma, Director General, Tanzania Communications Regulatory Authority

Andrew Kisaka, Tanzania Communications Regulatory Authority

Fisseha Mekuria, CSIR, South Africa

Amos Nungu, DIT, Tanzania

Laurens Cloete, CSIR, South Africa

Richard Mokgotlho, ICASA, South Africa

Idris Rai, State University of Zanzibar, Tanzania



Friday,  
May 11, 2012

DAY

09:00 Session 9a: **Business Processes and M-Business**

Chair: **Dan Faugoo, National Computer Board, Mauritius**

**Subcontracting Software Development: A Tanzanian Case Study**

Heli Jussila, Softvisio Ltd, Finland

**Challenges of Mobile Money Services focusing on Vodacom M-Pesa System in Tanzania**

Bukaza Chachage, Tumaini University of Iringa, Tanzania

**Co Creation Shared Value Business Ecosystems With ICT**

Liliane Pasape, Nelson Mandela African Institute of Science and Technology, Tanzania

**Towards Adopting Business Process Analysis and Design Techniques in Business Organizations in Transitional Countries**

John Paul Kasse, MUBS, Uganda

**Towards A Participatory User Requirements Elicitation Approach for Information Systems Development in Developing Countries**

Mkhululi Tyukala, Nelson Mandela Metropolitan University, South Africa

09:00 Session 9b: **8th Africa-EU Partnership - Joint Expert Group III**

Chairs: **Dr Rached Hamza, African Co-chair JEG8 & Prof. Luis Magalhães, European Co-chair of JEG8**

**Cross Cutting Issues (Part 1)**

Topics to be discussed include

**Internal Rules**

**Financial Aspects**

**Problems accrued since Last JEG8 Meeting**

**Interaction with the Regional Economic Communities, with AMCOST and with the African Ministerial Council on ICT (CMCIT)**

09:00 Session 9c: **Living Labs**

Chair: **Maxwell Otim, Uganda National Council for Science and Technology**

**A Qualitative Analysis to Determine the Readiness of Rural Communities to Adopt ICTs: Siyakhula Living Lab Case Study**

Sibukele Gumbo, Siyakhula Living Lab Management Unit, South Africa

**Proposing a Sustainable Financing Model for ICT4D initiatives**

Sikhumbuzo Ngwenya, University of Fort Hare, South Africa

**Emerging New Institutions for Innovation – Living Labs and Development Labs**

Kristiina Lahde, TanzICT Programme, Tanzania

**Iringa Living Lab**

Martin Yesaya, Ukombozi School, Tanzania

**Collaborative Relationship Practices for Living Labs, Universities and Business**

Minna Takala, Aalto University, Finland

09:00 Session 9d: **A User-centric Way to Change Management for Rural Community Development**

Moderators: **Darelle Van Greunen & Alida Veldsman, Nelson Mandela Metropolitan University, South Africa**

Topics include

“How do to prepare for change in emerging communities?”

Change assessment, Change management (CM) strategy, CM Team, Sponsorship model, Change Management Plans, Change Agents/champions in the community

“How to determine the user experience?”

Determining the critical UX factors, How to know and understand the user, Developing appropriate information architecture to support user experience, Evaluation with real users, Revisit the design based on feedback

09:00 Session 9e: **RFID and Networked Enterprise**

Chair: **Peter Mokube, Agence Nationale des Technologies de l'Information et de la Communication, Cameroon**

**Case Study on Livestock Identification and Traceability in Southern Africa**  
Chino Monyatsiwa, Ministry of Agriculture, Botswana

**Using the Internet of Things to Enable Electrical Load Optimisation**

Laurie Butgereit, Meraka Institute, South Africa

**Towards Managing Consumer Energy Demand with the Aid of the Internet of Things**

Andrew Cyrus Smith, CSIR Meraka Institute, South Africa

09:00 Workshop 9f: **Public – Private Cooperation for ICT Supporting Africa's Agriculture, Forestry, Environment and Risk-management**

Chair: **Walter Mayer, Progis Software GmbH, Austria**

**Online Agriculture Information System for Uganda**

Benedict Oyo, Gulu University, Uganda

**ICT Adoption and Use by Emerging Farmers in the Western Cape Wine Industry to Support Decision Making**

Godwishes Simbanegavi, Cape Peninsula University Of Technology, South Africa

**Habitats Community Building Experiences within the framework of Living Lab Approach: A Key for Supporting Future EU-African Research Cooperation**

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

**Solution supporting building of Global Earth Observation Systems of Systems building (GEOSS)**

Premysl Vohnout, Ceske centrum pro vedu a spolecnost, Czech Republic

10:30 **Coffee Break**

11:00 Session 10a: **Open Source Software**

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

**Free Open Source Software (FOSS) and Survey Methodologies: The case of the Ghana National System of Innovation Survey**

Ritin Koria, UNIDO, Austria

**The Use of Open Source Communication Platform to Deliver Access-technology Agnostic Services**

Ishmael Makitla, CSIR - Meraka Institute / Nelson Mandela Metropolitan University, South Africa

**An Assessment of Open Source Promotion in addressing ICT Acceptance Challenges in Tanzania**

Josephat Kinyondo, Millicom, Tanzania

09:00 Session 10b: **8th Africa-EU Partnership - Joint Expert Group IV**

Chairs: **Dr Rached Hamza, African Co-chair JEG8 & Prof. Luis Magalhães, European Co-chair of JEG8**

**Cross Cutting Issues (Part 2)**

Topics to be discussed include

**Next JEG8 Meeting**

**Proposals of Actions and Recommendations**

11:00 Session 10c: **Living Labs - Case Studies**

Chair: **Ilari Lindy, World Bank, United States**

**From Research & Design Milieu to a Living Lab: Ukombozi School in Tanzania**  
Mikko Apiola, Tumaini University, Iringa University College, Tanzania

**Enhancing Information and Communication Technology Solutions for Rural Communities**

Nombulelo Twele, University of Fort Hare, South Africa

**LOG'EL Project - EPICS Living Lab – An Emerging Solutions Platform for addressing Community wide Challenges in Uganda and Beyond**

Herbert Lwanga, LOG'EL PROJECT, Uganda

**Reconstructed Living Lab (RLabs) Case Study**

Rene Parker, RLabs, South Africa

**Micro-Entrepreneurship and Local ICT Innovation Ecosystem in Iringa, Tanzania**

Hannes Toivanen, VTT Technical Research Centre of Finland, Finland

11:00 Session 10d: **ICT for eInclusion**

Chair: **Njei Check, ANTIC, Cameroon**

**CARARE: Connecting Archaeology and Architecture in Europeana**

Kate Fernie, MDR Partners (Consulting) Ltd, United Kingdom

**Communicating in Designing an Oral Repository for Rural African Villages**

Nicola Bidwell, Meraka-CSIR, South Africa

**eCommerce Acceptance by Small Tourism Enterprises (STEs) in Tanzania**

Mawazo Ramadhani, National Museum of Tanzania

11:00 Session 10e: **Cyber Security**

Chair: **Richard Stevens, Italy**

**Improving the Security of an On-line service: the Case of an Usable Authentication System**

Borka Jerman-Blazič, Institute Jožef Stefan, Slovenia

**Global Cyber Trends a South African Reality**

Innocentia Dlamini, CSIR, South Africa

**Network Security Enhancement through Honeypot: A Case Study of the University of Dodoma**

Tabu Kondo, The University of Dodoma, Tanzania

**State of Information Security in Zanzibar's Public Sector**

Hussein Shaaban, University of Bedfordshire, United Kingdom

11:00 Workshop 10f: **Public – Private Cooperation for ICT Supporting Africa's Agriculture, Forestry, Environment and Risk-management**

Chair: **Karel Charvat, Wirelessinfo, Czech Republic**

**ICT Supporting Agriculture, Forestry, Environment incl. Smallholder Farmers**

Walter Mayer, Progis Software GmbH, Austria

**Alert System in Case of Excess Drawing of Ground Water**

Maris Alberts, Institute of Mathematics and Computer Science of the University of Latvia

**New Tools for Data Accessibility and Decision Support**

Zbynek Krivanek, Ceske centrum pro vedu a spolecnost, Czech Republic

12:30 **Lunch**

13:30 **Closing Plenary 11a**

Chair: **Peter Ulanga, Universal Communications Access Fund, Tanzania**

**International Cooperation with Africa & Horizon 2020**

Fadila Boughanemi, DG Research, European Commission

**African Internet Exchange System (AXIS)**

Moses Bayingana, African Union Commission, Ethiopia

**African Leadership in ICT (ALICT)**

Jerome Morrissey, GESCI, Kenya

**TANZICT Programme**

Kristiina Lahde, TanzICT Programme, Tanzania

**World Bank Initiatives**

Philippe Dongier, Country Manager, WorldBank, Tanzania

**Entrepreneurship and ICT Incubation**

George Mulamula, Dar Teknohama Business Incubator, Tanzania

**Awards and Formal Closing Ceremony**

The programme is subject to change and the **IST-Africa 2012** Organising Committee reserves the right to alter the contents, venue and/or speakers. This Programme is accurate as at 30 April 2012.

## Registration Information

It is necessary for all **IST-Africa 2012** delegates to register online. Each delegate should be registered separately.

## Conference Fees

### Authors Fees (Due by 09 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 16 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 17 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
- Documentation with proceedings on CD-Rom
- Three luncheons and refreshments at morning and afternoon breaks
- 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, 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 2012** must complete their payment registration by **09 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. Each presenter will present one paper in the Programme.

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

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 2012 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 08 May from 15:00 to 18:00 and will remain open during normal conference hours from 08:00 on Wednesday.

## Major Places of Interest

Dar es Salaam is the largest and richest city in Tanzania with 2.8 million people. Although no longer the capital city, it remains the centre of the permanent central government bureaucracy and continues to serve as the capital for the surrounding Dar es Salaam Region.

While in Dar es Salaam, delegates should visit the National Museum, the Makumbusho Village Museum, the Botanical Garden and the island of Zanzibar.

## Climate

Dar es Salaam has a humid climate and relatively stable temperatures. The climate in May is warm, with average temperatures of 29 - 30 degrees Celsius. It is cooler in the evening (22 -23 degrees Celsius). Rains are possible during May and delegates should bring rain wear.

## Visa Information

Conference delegates should contact the Tanzania 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.

The countries whose nationals require visa for Tanzania are: Afghanistan; Albania; Algeria; Angola; Argentina; Armenia; Australia, Austria; Azerbaijan; Bahrain; Belarus; Belgium; Benin; Bhutan; Bolivia; Bosnia; Brazil; Bulgaria; Burkina Faso; Burma; Burundi; Cambodia; Canada; Cape Verde; Central African Republic; Chad; Chile; China (Peoples Republic of); Colombia; Comoros; Congo; Congo (Democratic Republic of); Costa Rica; Cote D'Ivoire; Croatia; Cuba; Czech Republic; Denmark; Djibouti; Dominican Republic; Ecuador; Egypt; El-Salvador; Equatorial Guinea; Eritrea; Estonia; Fiji; Finland; France; Gabon; Georgia; Germany; Gibraltar; Greece; Guatemala; Guinea; Guinea-Bissau; Guyana; Haiti; Holland; Holy See; Honduras; Hungary; Iceland; Independent State of Samoa; India; Israel; Italy; Japan; Jordan; Kazakhstan; Korea (North & South); Kuwait; Kurdistan; Laos; Latvia; Liberia; Lithuania; Libya; Luxembourg; Macedonia; Malagasy; Maldives; Mauritania; Mauritius; Mexico; Moldova; Monaco; Mongolia; Morocco; Mozambique; Myanmar; Nepal; Netherlands; New Zealand; Niger; Norway; Oman; Panama; Papua New Guinea; Paraguay; Peru; Philippines; Poland; Republic of Ireland; Portugal; Qatar; Romania; Russia; Rwanda; Sao Tome & Principe; Saudi Arabia; Senegal; Slovak Republic; Slovenia; South Africa; Spain; Suriname; Sweden; Switzerland; Syria; Taiwan; Tajikistan; Thailand; Togo; Tunisia; Turkey; Turkmenistan; Ukraine; United Arab Emirates; United Kingdom; United States of America; Uruguay; Uzbekistan; Venezuela; Vietnam; Yemen; Yugoslavia

If you are travelling through other countries to get to Dar es Salaam, it is necessary to check if you also require transit visas.

The **IST-Africa 2012** 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 may also be advisable to take anti-malaria tablets. 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 Tanzania you intend to visit.

## IST-Africa Initiative

Regional Impact of Information Society Technologies in Africa ("**IST-Africa**") is a multi-stakeholder initiative focused on raising wider awareness of African research capacity, strengthening the research dimension of Information Society policy dialogues between the European Commission and African countries and key regional organisations, analysing African research priorities, Supporting the 8th Africa-EU Partnership, 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 Infrastructure, 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), Ministry of Information Communication Technology (Swaziland), National Commission for Science and Technology (Malawi), COSTECH - Tanzania Commission for Science and Technology, Uganda National Council for Science and Technology, Ministry of Higher Education, Science and Technology (Kenya), Ministère de l'Enseignement Supérieur et de la Recherche Scientifique (Burundi), Ministry of Science and Technology (Ethiopia), Agence Nationale des Technologies de l'Information et de la Communication (Cameroon), Ministère de l'Enseignement Supérieur, des Universités et des Centres Universitaires Régionaux et de la Recherche Scientifique (Senegal), Ministry of Environment, Science and Technology (Ghana), Ministère de l'Enseignement Supérieur et de la Recherche Scientifique (Tunisia) and Ministry of Communications and Information Technology (Egypt).



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## Exhibition

**IST-Africa 2012** Exhibition showcases applied ICT research results and applications through technology demonstrations and posters.

## Demonstration Stands

Stand Name	Organisation	Country
COSTECH/ Ministry of Communications, Science and Technology	COSTECH & Ministry of Communications, Science and Technology	Tanzania
IST-Africa Initiative	IST-Africa Consortium	
TANZICT	TANZICT	Tanzania
NOKIA	NOKIA	Kenya
DHIS2 Project	Department of Computer Science and Engineering, University of Dar es Salaam	Tanzania
Centre of Virtual Learning	Centre of Virtual Learning, University of Dar es Salaam	Tanzania
University of Dodoma	College of Informatics and Virtual Education (CIVE), University of Dodoma	Tanzania
Dar es Salaam Institute of Technology	Dar es Salaam Institute of Technology	Tanzania
Mzume University	Directorate of ICT, Mzume University	Tanzania
Technology Transfer Alliance	KTH	Sweden
Young Scientist Tanzania	Young Scientist Tanzania	Tanzania
Dar Teknohama Business Incubator	Dar Teknohama Business Incubator	Tanzania
OpenXdata	Tanzanian developers as part of OpenxData mHealth open Source Project	Tanzania
KINU Innovation & Co-creation Hub	KINU	Tanzania
UHURUONE	UHURUONE	Tanzania

**Conference Portal & Delegate Showcase**  
[www.IST-Africa.org/Conference2012](http://www.IST-Africa.org/Conference2012)

### IST-Africa 2012 Additional Supporting Organisations

