IST-Africa 2014
Final Programme

Mauritius

06 - 09 May 2014

IST Africa

Hosted by

Ministry of Information and
Communication Technology

National Computer Board

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TECHNOLOGY AND INNOVATION COOPERATION
BETWEEN EUROPE, AFRICA AND THE LAC REGION

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Introduction

- **IST-Africa 2014** Conference & Exhibition takes place 06 - 09 May 2014 in Mauritius, as part of **IST-Africa Week 2014**. An activity of **IST-Africa**, which is supported by the European Commission and African Union Commission and co-funded under the EU Framework Programme, **IST-Africa 2014** is the ninth in an Annual Conference Series bringing together senior representatives from leading public, private, education & research organisations, to discuss ICT policy, showcase research results and share knowledge.

- European research activities are structured around consecutive multi-annual programmes, or so-called Framework Programmes. Horizon 2020 sets out the Priorities and thematic areas, including ICT, for 2014 - 2020. Horizon 2020 is fully open to international co-operation with the aim to jointly address major challenges where significant added value is expected to be gained from a world-wide R&D cooperation. In this context, the European Commission has co-funded **IST-Africa** since 2006, to promote African - European research cooperation and support Information Society and ICT aspects of the Africa-EU Strategic Partnership.

- Hosted by the Government of Mauritius through the Ministry of Information Communication Technology and National Computer Board and Technically Co-Sponsored by IEEE, **IST-Africa 2014** 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, eInfrastructures, Societal Implications of Technology and eGovernment. **IST-Africa 2014** 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 2014** will also provide an opportunity to identify potential partners for future proposals under Horizon 2020, the follow on programme to FP7, which commenced in January 2014.

- **IST-Africa** directly supports Information Society, Innovation and ICT aspects of the Africa-EU Strategic Partnership, 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 2014 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 2014 Conference & Exhibition also provides the unique opportunity to identify partners and opportunities to co-operate in international ICT research projects co-funded by the European Commission under Horizon 2020. Much of the European research results presented in this year's conference were co-funded under the FP7 ICT Programme (2007 - 2013).

The Venue

IST-Africa 2014 Conference & Exhibition takes place in Le Méridien Ile Maurice, Pointe Aux Piments, Mauritius. The hotel is located x mins by car from the airport.

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 38 thematically focused parallel sessions featuring different aspects of International Cooperation, eHealth, eInfrastructures, Technology Enhanced Learning and ICT Skills, Living Labs, Digital Libraries, Mobile Applications, ICT for Environmental Sustainability, eAgriculture, Societal Implications of Technology and eGovernment. 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 07 May features a high level dialogue on Implementation of the Information Society in Africa. The Closing Plenary on Friday 09 May focuses on Initiatives Supporting Development of Regional S&T.

The programme is subject to change and the **IST-Africa 2014** Organising Committee reserves the right to alter the contents, venue and/or speakers. This Programme is accurate as at 05 May 2014.

Networking

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

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

Living Labs Workshop, 06 May

IST-Africa is organising the fourth Annual Living Lab Thematic Working Group Meeting on Tuesday 06 May 2014.

This workshop will facilitate knowledge sharing and collaboration between Innovation Stakeholders and operators of Living Labs and Innovation Spaces, building on progress achieved at previous Working Group Meetings in Nairobi (2013), Dar es Salaam (2012) and Gaborone (2011). This participatory working group meeting will continue building a network of experts, public, private, education and research and societal stakeholders and entrepreneurs committed to Collaborative Innovation as a mechanism to support sustainable socio-economic development in Africa.

IST-Africa 2014 delegates are invited to pre-register for this participatory working group meeting as part of online registration.

Conference Proceedings

The **IST-Africa 2014** 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. The **IST-Africa 2014** Conference Proceedings will also be submitted for publication in IEEE Xplore.

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 Mauritius. 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 Le Méridien Ile Maurice(conference venue). Le Méridien Ile Maurice is located 30 minutes drive from Port Louis.

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/Conference2014

How to get there

Mauritius is an island nation in the Indian Ocean, about 2,000 kilometres off the southeast coast of the African continent.

There are direct flights to Mauritius, SSR Intl Airport (MRU) from Nairobi (Kenya), Cape Town, Durban, Johannesburg (South Africa), London (UK), Paris (France), Frankfurt (Germany), Zurich (Switzerland).

As Official Airline Carrier, Air Mauritius is offering discounts on scheduled flights to Mauritius up to 5 days prior to IST-Africa. More information is available on the conference portal.

Delegates are advised to book flights and accommodation as early as possible.

Sponsors

IST-Africa 2014 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 press releases, together with other benefits and promotional opportunities.

IST-Africa 2014 is hosted by the Government of Mauritius through the Ministry of Information and Communication Technology and National Computer Board. Other Support organisations include SAP Africa, Orange and FinCEAL project.

For further information in relation to providing support, please contact the Conference Secretariat at **secretariat@IST-Africa.org**

Plenary Session Speakers

Hon. Tassarajen Pillay Chedumbrum
Minister of ICT Mauritius

Dan Faugoo
Executive Director, NCB, Mauritius

Dr M.K. Oolun
Executive Director, ICT Authority, Mauritius

Dr A Suddhoo
Executive Director, Mauritius Research Council

Prof A.K. Bakhshi
Executive Director, TEC, Mauritius

Mr Moctar Yedaly
Information Society Division African Union Commission
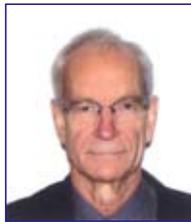
Mr Morten Møller
DG CONNECT European Commission

Prof R. Mohee
CSK, Vice-Chancellor, University of Mauritius

Dr H.B. Chittoo
Director General, UTM, Mauritius

Prof Darelle Van Greunen
Nelson Mandela Metropolitan University, South Africa

Plenary Speakers as at 05 May 2014 include:

- **Hon. Tassarajen Pillay Chedumbrum,** Minister of Information and Communication Technology, Mauritius
- **Mr Suraj Ramgolam**, Chairman, National Computer Board, Mauritius
- **Mr Dan Faugoo**, Executive Director, National Computer Board, Mauritius
- **Dr M. K Oolun,** Executive Director, ICT Authority
- **Dr A Suddhoo,** Executive Director, Mauritius Research Council
- **Prof. A.K. Bakhshi,** Executive Director, Tertiary Education Commission (TEC), Mauritius
- **Mr N. Jugmohunsing**, Assistant Permanent Secretary, Ministry of Tertiary Education, Science, Research and Technology, Mauritius
- **Mr Jean Claude de l'Estrac**, Secretary General, Indian Ocean Commission
- **Zauria Saifodine**, Director of ICT Capacity Building, Instituto Nacional de Tecnologias de Informação, e Comunicação, Mozambique
- **Mr Moctar Yedaly**, Head of Information Society Division, African Union Commission
- **Mr Morten Møller,** Programme Coordination, DG CONNECT, European Commission, Belgium
- **Prof Romeela Mohee,** CSK, Vice-Chancellor, University of Mauritius
- **Dr Hemant Chittoo**, Ag. Director General, University Technology Mauritius
- **Prof Darelle Van Greunen**, School of ICT, Nelson Mandela Metropolitan University, South Africa
- **Mr Moses Bayingana**, ICT Expert, Information Society Division, African Union Commission
- **Maryse Chung**, Mauritius Sugar Industy Research Institute
- **M. V. Ramana,** Mauritius Oceanography Institute
- **K. Poonoosamy**, Managing Director, Board of Investment, Mauritius

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 2014** International Programme Committee includes
- **Paul Cunningham** (Conference Chair), IIMC International Information Management Corporation Ltd, Ireland
- **Perienen Appavoo**, Open University of Mauritius
- **Dr Vinaye Armoogum**, School of Innovative Technology and Engineering, University of Technology, Mauritius
- **Sheeba Armoogum**, Faculty of Engineering, University of Mauritius
- **Dr Vandana Bassoo**, Faculty of Engineering, University of Mauritius
- **Dr Pierre Catherine**, School of Innovative Technology and Engineering, University of Technology, Mauritius
- **Laurens Cloete**, Meraka Institute, CSIR, South Africa
- **Miriam Cunningham**, IIMC International Information Management Corporation Ltd, Ireland
- **Kim Davis**, Research Council of Norway, Norway
- **Razvi Doomun**, Department of Computer Science and Engineering, University of Mauritius
- **Prof. Love Ekenberg**, DSV, University of Stockholm, Sweden
- **Ravi Foogooa**, School of Innovative Technology and Engineering, University of Technology, Mauritius
- **Dr David Gichoya**, Moi University, Kenya
- **Prof. Marlien Herselman**, Living Labs of Southern Africa Network, South Africa
- **Dr Mussawir Hosany**, Faculty of Engineering, University of Mauritius
- **Dr. Mike Joy**, University of Warwick, United Kingdom
- **Dr. Bernhard R. Katzy**, CeTIM, The Netherlands
- **Kristiina Lahde**, TANZICT Programme, Tanzania
- **Assil Lotun**, Mauritius
- **Gareth MacNaughton**, CISCO, United Kingdom
- **Dr Ayub Manya**, Ministry of Health, Kenya
- **Prof. Maurice Mars**, University of KwaZulu-Natal, South Africa
- **Girish Mautadin**, Mauritius

- **Loi Namugenyi**, Uganda National Council for Science & Technology
- **Dr Sue Pendell**, Colorado State University, United States
- **Amreesh Phokeer**, AFRICNIC, Mauritius
- **Sameerchand Pudaruth**, Computer Science and Engineering Department, University of Mauritius
- **Matti Sinko**, Finland
- **Bernard Stevenot**, SpaceBel, Belgium
- **Richard Stevens**, Stevens Consultants, Italy
- **Dr Geerish Suddul**, School of Innovative Technology and Engineering, University of Technology, Mauritius
- **Roopesh Sungkur**, Faculty of Engineering, University of Mauritius
- **Prof. Darelle Van Greunen**, Nelson Mandela Metropolitan University/ Computer Society of South Africa

Organising Committee

- **Miriam Cunningham,** IIMC, Ireland
- **Paul Cunningham,** IIMC, Ireland
- **Dan Faugoo,** National Computer Board, Mauritius
- **Ismael Limalia**, National Computer Board, Mauritius

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NCB
National Computer Board

Conference Secretariat

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[4 - 5] F i n a l

1 DAY

Wednesday, May 07, 2014

During the coffee break participants are invited to list their institution, dept and research areas in the areas of LEIT and Societal Challenges on the flip chart

08:00   Registration

09:00   Opening Plenary 1a: Opening Plenary

Moderator: Verna Pillay, Ministry of ICT, Mauritius

Welcome Address
Dan Faugoo, Executive Director, National Computer Board, Mauritius

European Commission Address
Morten Møller, Programme Coordination, DG CONNECT, European Commission, Belgium

IOC Address
Jean Claude de l'Estrac, Secretary General, Indian Ocean Commission

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

Official Opening Speech
Hon. Tassarajen Pillay Chedumbrum, Minister of Information and Communication Technology

10:30   Coffee Break

11:00   Plenary Session 2a: High-level Roundtable on Implementation of the Information Society in Africa

Moderator: Paul Cunningham, IIMC, Ireland

RoundTable Participants include:
Mr Suraj Ramgolam, Chairman, National Computer Board, Mauritius

Dr M. K Oolun, Executive Director, ICT Authority, Mauritius

Dr A Suddhoo, Executive Director, Mauritius Research Council

Mr N. Jugmohunsing, Assistant Permanent Secretary, Ministry of Tertiary Education, Science, Research and Technology, Mauritius

Prof. A.K. Bakhshi, Executive Director of Tertiary Education Commission (TEC), Mauritius

Zauria Saifodine, Director of ICT Capacity Building, Instituto Nacional de Tecnologias de Informação, e Comunicação, Mozambique

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

Prof Romeela Mohee, CSK, Vice-Chancellor, University of Mauritius

Dr Hemant Chittoo, Ag. Director General, University Technology Mauritius

Prof Darelle Van Greunen, School of ICT, Nelson Mandela Metropolitan University, South Africa

12:30   Lunch

14:00   Workshop 3a: Horizon 2020

Joint IST-Africa CAAST-Net Plus Session
Moderator: Paul Cunningham, IIMC, Ireland

IST-Africa
Paul Cunningham, IIMC / IST-Africa, Ireland

CAAST-Net Plus
Melissa Plath, UniPID, University of Jyväskylä, Finland

Introduction to Horizon 2020
Morten Moller, Programme Coordination, DG CONNECT, European Commission

Agriculture, Health, Environment 2014/2015 Calls in H2020
Melissa Plath, UniPID, University of Jyväskylä, Finland

George Essegbey, CSIR, Science and Technology Policy Research Institute, Ghana

LEIT (ICT) 2015 Calls in H2020
Paul Cunningham, IIMC / IST-Africa, Ireland

14:00   Session 3c: Technology-enhanced Learning

Chair: Perienen Appavoo, Open University of Mauritius

Adoption of e-Assessment in Strathmore University
Delphine Mukandutiye, Strathmore University, Kenya

Incorporating a Guided Problem-Solving Method into Activemath using the House Model and Logistic Regression
Kyle Stone, Tshwane university of Technology, South Africa

Students Experiences of Using Wiki Spaces to Support Collaborative Learning in a Blended Classroom; A Case of Kenyatta and KCA Universities in Kenya
Rhoda Gitonga, Kenyatta University, Kenya

Exploring Three Approaches to Offer Distance Learning Courses through a Social Network of Health Researchers in Three African Countries
Maximo Ramirez Robles, Universidad Politécnica de Madrid, Spain

Are Facebook "likes" Enough to Assess Student Satisfaction in Open Distance Learning (ODL)? An Incursion into Students' Experience of ODL through Online Social Networks (OSNs)
Mrinal Sohoraye, Open University of Mauritius

14:00   Session 3d: Mobile Applications I

Chair: Sameerchand Pudaruth, University of Mauritius

Connectivity within Indian Ocean Islands (Mauritius, Seychelles, Comoros, Reunion and Madagascar) – A Case for a Regional Internet Exchange
Mahen Soobron, Ministry of ICT, Mauritius

Towards a Collaborative Approach to Web Service Monitoring: In Appreciation of Connectivity Challenges in Africa
Ishmael Makitla, CSIR - Meraka Institute / Nelson Mandela Metropolitan University, South Africa

Securing Mobile Applications in Hostile Rural Environments
Rossouw De Bruin, University of Johannesburg, South Africa

14:00   Session 3e: eGovernment

Chair: Vyankoj Mulloo, National Computer Board, Mauritius

Case Study Mauritius: Successful Implementation of Innovative Public Revenue Management Solutions
Hannes Venter, SAP Africa, South Africa

Next Generation Citizen Centric e-Services
Vikas Sharma, PricewaterhouseCoopers Ltd, Mauritius

Exploring the Success, Failure and Factors Influencing mGovernment Implementation in Developing Countries
Olalekan Samuel Ogunleye, University, South Africa

The e-Service Delivery in South Africa and the Contribution of Research Institutions
Nare Mahwai, CSIR, South Africa

State Information Protection Laws and e-Transparency
Edison Lubua, University of KwaZulu Natal, South Africa

15:30   Coffee Break

16:00   Workshop 4a: Horizon 2020

Joint IST-Africa CAAST-Net Plus Session
Moderator: Paul Cunningham, IIMC, Ireland

Overview of Horizon 2020 Participation Rules & Instruments
Miriam Cunningham, IIMC / IST-Africa, Ireland

Proposal Preparation
Paul Cunningham, IIMC / IST-Africa, Ireland

Discussion, Q&A
Morten Moller, Programme Coordination, DG CONNECT, European Commission

Paul Cunningham, IIMC / IST-Africa, Ireland

Melissa Plath, UniPID, University of Jyväskylä, Finland

George Essegbey, CSIR, Science and Technology Policy Research Institute, Ghana

Brokerage Session
Each participating organisation has a maximum of one minute to outline their research areas, track record and why delegates should meet with them during the conference to discuss collaboration.

16:00   Session 4c: Technology Enhanced Learning in Higher Education Institutions

Chair: David Gichoya, Moi University, Kenya

Flipping an Online PhD Programme between Sudan and South Africa
Izzeldin Osman, Sudan university of Science and Technology, Sudan

Use of Cloud Computing Platform for E-Learning in Institutions of Higher Learning in Kenya
Tabitha Kihara, Moi University, Kenya

A Cloud-based Architecture for eEducation Content Provision: The Case of Nciba Circuit of the Comfivaba District of South Africa
Nomusa Dlodlo, CSIR, South Africa

16:00   Session 4d: Mobile Applications II

Chair: Vinaye Armoogum, University of Technology, Mauritius

Challenges Encountered by Older Adults while Navigating Mobile Device User Interfaces
Margaret Ngugi, Jomo Kenyatta University of Agriculture and Technology, Kenya

Visual Interfaces as an Approach for providing Mobile Services and Mobile content to low literate users in South Africa
Muzi Matyila, CSIR, South Africa

The Adoption of Mobile Technology as a Tool for Situational Crime Prevention in Kenya
Collins Oduor, @iLabAfrica, Strathmore University, Kenya

Integration of Mobile, Big Data, Sensors, and Social Media: Impact on Daily Life and Business
Mario Gastaldi, Evonue Digital, Mauritius

16:00   Session 4e: eGovernment II

Chair: Pierre Clarel Catherine, University of Technology, Mauritius

Development of a Data Model for Semantic Exploitation of Municipality Records in South Africa
Desmond Mogotlane, Vaal University of Technology, South Africa

Leveraging Linked Data to Enhance Programmers' Access to Government Open Data
Isaiah Mulang', Jomo Kenyatta University of Agriculture and Technology, Kenya

Impediments to Interagency Statistical Information Sharing amongst Government agencies in Uganda: a G2G Adoption
Flavia Kyeyago, Uganda Bureau of Statistics, Uganda

Towards the Development of a Citizen-Centric Framework for Evaluating the Impact of E-government: A Case Study of Developing Countries
Ibrahim Otieno, University of Nairobi, Kenya

17:30	End of Parallel Sessions
19:00	Networking Reception - Supported by FinCEAL
20:00	Conference Dinner - Hosted by Ministry of ICT

2 DAY

Thursday, May 08, 2014

09:00   Session 5a: eHealth - Health Service Delivery

Chair: Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

Interoperability Study on eHealth Services for the Sub-Saharan Africa Region
Ghislain De La Sayette, Astrium, France

Scoping Global Good eHealth Platforms: Implications for Sub-Saharan Africa
Karl Stroetmann, empirica GmbH, Germany

Linking Risk and Resource Mapping for the Determination of Favorable Locations of Wells in GIS
Melanie Platz, University of Koblenz Landau, Campus Landau, Germany

Development of a Mathematical Model to Estimate Negative Impacts on Human Health with the Help of Risk Maps and Fuzzy Membership Functions
Jörg Rapp, University of Koblenz-Landau, Campus Landau, Germany

SmartPrescription: A Principled Approach Towards Eliminating Prescription Errors in Healthcare
Paul Okanda, United States International University (USIU), Kenya

09:00   Workshop 5b: IST-Africa - Research Capacities & Priorities I

Chair: Paul Cunningham, IIMC, Ireland

ICT Initiatives and Research Capacity in Mauritius
Dan Faugoo, National Computer Board, Mauritius

ICT Initiatives and Research Capacity in South Africa
Peacemaker Dlamini, Department of Science and Technology, South Africa

ICT Initiatives and Research Capacity in Botswana
Phodiso Phole, Ministry of Transport and Communications, Botswana

ICT Initiatives and Research Capacity in Swaziland
Vumile Dlamini, Ministry of Information and Communications Technology, Swaziland

ICT Initiatives and Research Capacity in Namibia
Ebenhezer Kauhonina, National Commission on Research, Science and Technology, Namibia

ICT Initiatives and Research Capacity in Lesotho
Lieketseng Tjokotsi, Department of Science and Technology, Lesotho

09:00   Workshop 5c: Tablet Integration into the Classroom: A Case from the Rural Trenches

Chair: Adele Botha, Meraka Institute, South Africa

ICT4RED 12-Component Implementation Framework: A Conceptual Framework for Integrating Mobile Technology into Resource-constrained Rural Schools
Merryl Ford, CSIR, South Africa

Gamification beyond Badges
Adele Botha, Meraka Institute, South Africa

Interative Workshop to introduce the Teacher Professional Development component of the ICT for Rural Education Development (ICT4RED) initiative. One module of a 10 module course will be presented to demonstrate how we have successfully facilitated ICT tablet integration in the classroom by teachers with little to no exposure to ICTs.

09:00   Workshop 5d: Exploiting eInfrastructure for Research and Education I

Chair: Francis Tusubira, UbuntuNet Alliance, Uganda

Session 1: REN Infrastructure Roll out in Sub-Saharan Africa

State of UbuntuNet
Joe Kimaili, Technical Manager, UbuntuNet Alliance

[6 - 7] F i n a l

State of the Research and Education Network Infrastructure in the WACREN region
Omo Oiya, WACREN, Nigeria

Addressing the Connectivity Gaps in Sub-Saharan Africa
Cathrin Stover, DANTE, UK

Summing up

09:00   Session 5e: Cyber Security

Chair: Amreesh Phokeer, AFRINIC, Mauritius

Survey of Practical Security Frameworks for Defending SIP Based VoIP Systems against DoS/DDoS Attacks
Sheeba Armoogum, University of Mauritius, Mauritius

The Development of a Cyber Security Policy in Developing Regions and the Impact on Stakeholders
Ian Ellefsen, University of Johannesburg, South Africa

Applying Keystroke Dynamics Techniques to Facial Thermography for Verification
George Henderson, University of Johannesburg, South Africa

An Open Speaker Recognition Enabled Identification and Authentication System
Michal Adamski, University of Johannesburg, South Africa

Requirements for Secure Graphical Passwords
Mokgadi Rasekgala, CSIR, South Africa

10:30	Coffee Break

11:00   Session 6a: eHealth - Health Information Systems

Chair: Khadija Malima, COSTECH, Tanzania

A Method for Selecting E-Health Standards to Support Interoperability of Healthcare Information Systems
Funmi Adebesin, Council for Scientific and Industrial Research, South Africa

Health Management Information Systems (HMIS) Implementation Characteristics that Influence the Quality of Healthcare in Private Hospitals in Kenya
Jimmy Macharia, United States International University, Kenya

Implementing eHealth in Tanzania; Opportunities and Challenges 2009 - 2014
Khadija Malima, COSTECH, Tanzania

Open Source Software and Bureaucracy: A Case of Health Information System in Zanzibar
Abubakar Bakar, The State University of Zanzibar, Tanzania

Perception of Sudan Peritoneal Dialysis Program's Staff to Medical Electronic Records
Rafaa Ashamallah Ghobrial Morgos, Ministry of Science & Communication, Sudan

11:00   Workshop 6b: IST-Africa - Research Capacities & Priorities II

Chair: Paul Cunningham, IIMC, Ireland

ICT Initiatives and Research Capacity in Malawi
Ebony Msikawanthu, National Commission for Science and Technology, Malawi

ICT Initiatives and Research Capacity in Mozambique
Zauria Saifodine, National Institute for ICT, Mozambique

ICT Initiatives and Research Capacity in Angola
Antonio Alcochete, Ministerio da Ciencia e Tecnologia, Angola

ICT Initiatives and Research Capacity in Tunisia
Noureddine Hamdi, Ministere de l'Enseignement Superieur et de la Recherche Scientifique, Tunisia

ICT Initiatives and Research Capacity in Egypt
Haitham Hamza, Information Technology Industry Development Agency (ITIDA), Egypt

ICT Initiatives and Research Capacity in Senegal
Toumane Doumbouya, Ministère de l'Enseignement Supérieur et de la Recherche, Senegal

11:00   Session 6c: Technology Enhanced Learning

Chair: Love Ekenberg, Stockholm University, Sweden

m-Learning System Enhancing Mathematical Concepts (m-LSEMC): A Case Study of University of Namibia and Rhodes
Jameson Mbale, University of Namibia, Namibia

Study Examining Whether the Computer Science Curriculum at the Sudanese High Secondary Schools is Adequate to Qualify the Students to be Computer Literate
Atika ElMubarak, Sudan University of Science and Technology, Sudan

Translation between English and Mauritian Creole: A Statistical Machine Translation Approach
Aneerav Sukhoo, Central Information Systems Division, Mauritius

Made in Africa: African Digital Creativity
Alfredo M. Ronchi, Politecnico di Milano, Italy

11:00   Workshop 6d: Exploiting eInfrastructure for Research and Education II

Chair: Omo Oiya, WACREN, Nigeria

Session 2: Panel Discussion on Enabling Communities of Practice

Digital Learning Resources
Bakary Diallo, African Virtual University, Nairobi

SKA
Leon Staphorst, SANREN, South Africa

Grid-Computing
Bruce Becker, SAGRID, South Africa

11:00   Session 6e: Security, Authentication & Biometrics

Chair: Razvi Doomun, University of Mauritius

Information Security Initiatives and Challenges in Mauritius
Kaleem Usmani, CERT-MU, National Computer Board, Mauritius

The Poor Man's Biometric: Identifying Cost-Effective Biometric System Criteria for SMME's
Dustin van der Haar, University of Johannesburg, South Africa

Choice of Biometrics
Bibi Nazmeen Boodoo-Jahangeer, University of Mauritius

Hand Biometrics for Security
Maleika Heenaye-Mamode Khan & Naushad Mamode Khan, University of Mauritius

Streamlined Approach to Online Banking Authentication in South Africa and Europe
Frans Blauw, University of Johannesburg, South Africa

Online Social Networks to Online Social Malworks - the Evolution of an Industry
Candice Louw, University of Johannesburg, South Africa

12:30	Lunch

14:00   Session 7a: eHealth

Chair: Sejojo Phaaroe, Health Research and Laboratory Services, Lesotho

A Secure Data Access Model for the Mauritian Healthcare Service
Oveeyen Moonian, University of Mauritius

A Framework for Implementing Cloud Computing for Record Sharing and Accessing in the Ghanaian Healthcare Sector
Nana Assyne, Ghana Institute of Management and Public Administration (GIMPA), Ghana

An Integrative ICT Platform for eHealth
Ronell Alberts, CSIR, South Africa

Compiling a Prioritized List of Health Data Quality Challenges in Public Healthcare Systems
Marna Botha, CSIR, South Africa

Implementing Modular Interactive Tiles for Rehabilitation in Tanzania – A Pilot Study
Henrik Hautop Lund, Technical University of Denmark, Denmark

14:00   Workshop 7b: IST-Africa - Research Capacities & Priorities III

Chair: Paul Cunningham, IIMC, Ireland

ICT Initiatives and Research Capacity in Cameroon
National Agency for Information and Communication Technologies (ANTIC), Cameroon

ICT Initiatives and Research Capacity in Kenya
Jacob Njagih, Ministry of Education, Science and Technology, Kenya

ICT Initiatives and Research Capacity in Uganda
Loi Namugenyi, Uganda National Council for Science & Technology

ICT Initiatives and Research Capacity in Burundi
Tatien Masharabu, Ministry of Higher Education and Scientific Research, Burundi

ICT Initiatives and Research Capacity in Tanzania
Khadija Malima, Tanzania Commission for Science and Technology

ICT Initiatives and Research Capacity in Ethiopia
Leulseged Alemie, Ministry of Communications and Information Technology, Ethiopia

14:00 Session 7c: eSkills

Chair: Vandana Bassoo, University of Mauritius

Uncovering the Competency Gap of Students Employed in Business Process Analyst Roles – An Employer Perspective
Lisa Seymour, University of Cape Town, South Africa

Streamlining Knowledge and Skills Sharing in Africa
Bishoy Louis, Information Technology Institute, Egypt

A Conceptual Framework of 21st Century Employability Skills & Competencies in Hospitality Industry of Kenya: Case of Waiters & Stewards
Anuradha Khoda, University of Nairobi, Kenya

14:00 Workshop 7d: IPv6 Based IoT/M2M, Cloud Computing and ISP/University/NREN Deployment

Chair: Latif Ladid, IPv6 Forum - SnT University of Luxemboug

IPv6 based M2M/Internet of Things (IoT)
Latif Ladid, President IPv6 Forum, Luxembourg

Impact of IPv6 and IoT on Africa
Adiel A. Akplogan, AFRINIC, Mauritius

Deployment of IPv6 at the University of Mauritius
Aatish Chiniah, University of Technology, Mauritius

14:00 Session 7e: Societal Implications of Technology

Chair: Haitham Hamza, ITIDA, Egypt

Beyond Access: ICT Use in Business by Micro, Small and Medium-sized Enterprises in Ghana and Zambia
Victor Konde, United Nations Economic Commission for Africa, Zambia

Social Services on Wheels: A Sustainable Model to Improve Access in Unreached Communities
Jecinta Kamau, Kyushu University, Japan

User Willingness to accept Friend Requests on SNS: A Facebook Experiment
Frederik Hattingh, Tshwane University of Technology, South Africa

The Impact of Science, Technology and Innovation to the Informal Sector in Uganda
Aminah Bukenya, UNCST, Uganda

15:30 — Coffee Break

16:00 Session 8a: eHealth

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

Predicting Adoption of Mobile Health Technology in Resource Constrained Environments
Gilbert Maiga, Makerere University, Uganda

A Review of Factors Influencing eHealth Adoption In Kenya: Barriers And Facilitators
Jasper Ondulo, Jaramogi Oginga Odinga University Science and Technology, Kenya

Leveraging Health through the Enhancement of Information Access Using Mobile and Service Oriented Technology
Silvester Namuye, USIU, Kenya

Social Simulation for Optimization of Emergency Health Services Policy
Mateus Calado, Universidade Agostinho Neto, Angola

Giving Hope to Refractory Epileptic Patients
Antonio Dourado, University of Coimbra, Portugal

16:00 Workshop 8b: ICT Initiatives in Mauritius

Chair: Suraj Ramgolam, Chairman, National Computer Board, Mauritius

e-Government initiatives in Mauritius
Rajnish Hawabhay, Central Informatics Bureau, Mauritius

eFiling of Tax Returns in Mauritius
Soobhash Sonah, Mauritius Revenue Authority

Rethinking the Education System of Mauritius: Integrating ICT Tools
Ricaud Auckbar, Ministry of Education, Mauritius

Capability of the Mauritian ICT industry to Export in the Region
Neemalen Gopal, Mauritius IT Industry Association, Mauritius

Establishing A Digital Cadastre - The LAVIMS Project
Navinchandra Luchoo, MHL / LAVIMS, Mauritius

16:00 Session 8c: Digital Libraries & Digital Preservation

Chair: Ebony Msikawanthu, National Commission for Science and Technology, Malawi

Direct Desktop-Repository Deposits with SWORD
Gontlafetse Mosweunyane, University of Botswana

An Overview of Digital Library Projects in Kenyan Universities
Elyjoy Micheni, The Technical University of Kenya

Data Structures for Information Retrieval
Denis Nkweteyim, University of Buea, Cameroon

A Case for Understanding User Experience Challenges confronting Indigenous Knowledge Recorders in Rural Communities in South Africa
Gugu Khalala, CSIR, South Africa

16:00 Session 8d: eInfrastructures

Chair: Njei Check, ANTIC, Cameroon

Experience and feedbacks from the sustainability for the Virtual Atomic and Molecular Data Centre E-infrastructure
Carlo Maria Zwölf, Observatoire de Paris, France

Perun - Modern Aproach for User Identity and Service Management
Michal Procházka, CESNET, Czech Republic

The Role of Governments in IPv6 Transition
Jiri Prusa, CZ.NIC Association, Czech Republic

Using iMENTORS and Open aid Data to Enhance Coherence of International Aid
Louis Papaemmanuel, eGovLab, Stockholm University, Sweden

16:00 Session 8e: Societal Implications of Technology

Chair: Lieketseng Tjokotsi, Department of Science and Technology, Lesotho

Raising Girls' Voices with SenseMaker
Rebecca Smith, GirlHub, United Kingdom

Transforming Fragmented Industry into Sustainable Businesses with SMAC Technologies
Subhas Thecka, Charles Telfair Institute, Mauritius

The Potential Value of Mobile Microwork Services in Developing Nations: Research Opportunities and Challenges
Jabu Mtsweni, University of South Africa, South Africa

17:30 — End of Parallel Sessions

3 DAY

Friday, May 09, 2014

09:00 Session 9a: Cloud Computing

Chair: David Gichoya, Moi University, Kenya

A Business Model for a South African Government Public Cloud Platform
Promise Mvelase, CSIR, South Africa

Cloud Computing Can Re-Shape Uganda
Collins Mwesigwa, Icon Frontiers Uganda Limited, Uganda

Presenting a Framework Utilising the Cloud to Facilitate Asset Management
Willem J.J. Thompson, Tshwane University of Technology, South Africa

09:00   Workshop 9b: Living Labs in Tanzania

Chair: Kristiina Lahde, TanzICT Programme, Tanzania

Tanzanian Living Labs - Background
Kristiina Lahde, TanzICT Programme, Tanzania

Rapid Growth in a New Living Lab
Novat Karol, Elimu Living Lab, Tanzania

The Challenges of Community-driven Innovation in a University-led Living Lab
Joshua Jacob Mushi, Arusha EcoLab /NM-AIST, Tanzania

GROW Leadership Academy - Experience and Social Franchising with RLabs South Africa
Yusuf Ssessanga, Rlabs-Iringa, Tanzania

Lessons from Tanzanian Living Labs - the First Years
Simon Flamand, TANZICT, Tanzania

09:00   Session 9c: Open Source & Open Data Applications

Chair: Roopesh Kevin Sungkur, University of Mauritius

Efficiency and Effectiveness of National Systems of Innovation: The Importance of ICT, the Cases of Ghana and Kenya
Liliana Andriano, UNIDO, Austria

Ambient Intelligence Framework for Web Services aimed at Elderly Users
Maria Panou, Centre for Research and Technology Hellas, Greece

SmartTouristData Approach for connecting local and global tourist information systems
Premysl Vohnout, Czech Centre for Science and Society, Czech Republic

SDI4Apps
Zbynek Krivanek, Ceske centrum pro Vedu a Spoplecnost, Czech Republic

09:00   Workshop 9d: NCP Training (Closed meeting)

09:00   Session 9e eAgriculture

Chair: R.K. Ramnauth, Food and Agricultural Research and Extension Institute (FAREI), Mauritius

Cattle Monitoring System Using Wireless Sensor Network in Order to Prevent Cattle Rustling
Patrick Nkwari, University of Johannesburg, South Africa

PotatoSense: A Wireless Sensor Network System for Precision Agriculture
Kavi Kumar Khedo, University of Mauritius, Mauritius

A Prototype Mobile Monitoring System for Hydroponic Agriculture
Loic Ndame, Nelson Mandela Metropolitan University, South Africa

FOODIE – Open Data for Agriculture
Karel Charvat, Help service remote sensing s.r.o., Czech Republic

10:30	Coffee Break

11:00   Session 10a: ICT Regulatory Frameworks

Chair: Peacemaker Dlamini, DST, South Africa

Understanding the Maturity of EU Code of Conduct on Data Centres: A Mauritian Case Study Explained
Ashwin Seegolam, National Computer Board, Mauritius

The Institutionalisation of Political and Corporate Governance of Information and Communication Technology in the Public Service of South Africa, a Developing Country
Tersia van der Walt, University of Johannesburg, South Africa

The Importance of ICT Policy in Achieving the Health Millennium Development Goals (MDGs) in Tanzania
Manoj Maharaj, University of KwaZulu-Natal, South Africa

11:00   Session 10b: Innovation Leveraging Living Labs

Chair: Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

A Model for the Transformation of the Mauritian Classroom based on the Living Lab Concept
Mohammad Issack Santally, University of Mauritius

Co-Constructive ePower Loop – Citizen Driven Innovation in Region Västerbotten, Northern Sweden
Olov Forsgren, Stockholm University, Sweden

A Proposed Living Lab Methodological Framework for Namibia
Nobert Jere, Polytechnic of Namibia, Namibia

User Experience of Pervasive Healthcare applications used by Community Healthcare Workers in the Eastern Cape, South Africa
Alida Veldsman, Nelson Mandela Metropolitan University, South Africa

Factors Impacting Tablet PC Usage in Low-income Communities: A Case Study of South Africa
Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

11:00   Workshop 10c: Cooperation with Finnish Institutions: Highlighting Expertise and Partnership Opportunities

Chair: Eva Kagiri, UniPID, Finland

Strengthening Cooperation on Science, Technology and Innovation between Finland, Africa and Europe
Eva Kagiri, UniPID, Finland

Living Labs – UFISA Project
Minna Fred, University of Helsinki, Finland

ENhANCE - A Partnership for Positioning African Universities to Spearhead Development of Local Mobile and Wireless Networks
Edward Mutafungwa, Aalto University, Finland

CIER Project - Converged Infrastructure for Emerging Regions
Juha Zidbeck, VTT – Technical Research Centre of Finland

Networking Session with Finnish Partners - 12 representatives from different Finnish Institutions will give 2 min pitches highlighting their areas of expertise and what kind of partners they are looking for. Participants will then get an opportunity to have one-on-one meetings with the representatives and discuss collaboration opportunities

11:00   Workshop 10d NCP Training (Closed meeting)

11:00   Session 10e: Environmental Sustainability

Chair: Ravi Foogooa, University of Technology, Mauritius

CrowdSourced Weather Reports: An Implementation of the µ Model for Spotting Weather Information in Twitter
Laurie Butgereit, Nelson Mandela Metropolitan University, South Africa

A Wireless Sensor Network Framework for Large-Scale Industrial Water Pollution Monitoring
Yohannes Derbew, Moha Soft Drink Industries (PEPSI), Ethiopia

A Self Green ICT Maturity Assessment Tool for SMEs
Ravi Foogooa, University of Technology, Mauritius

Experience in implementing multi-country Energy Information Systems in West Africa and MENA regions
Mohamad Mahgoub Hamid, RCREEE - Regional Center for Renewable Energy and Energy Efficiency, Egypt

12:30	Lunch

13:30   Closing Plenary 11

Chair: Vishnou Gondeea, Permanent Secretary, Ministry of Information and Communication Technology, Mauritius

African Internet Exchange System (AXIS)
Moses Bayingana, African Union Commission, Ethiopia

Land Use Mapping using Satellite imagery - the Mauritian Experience
Maryse Chung, Mauritius Sugarcane Industry Research Institute

Prospects of Oceanography - Mauritius
M. V. Ramana, Mauritius Oceanography Institute

New Economic Growth Engines of the Mauritius Economy
K. Poonoosamy, Managing Director, Board of Investment, Mauritius

Best Paper Award

Registration Information

It is necessary for all **IST-Africa 2014** delegates to register online. Each delegate should be registered separately.

Conference Fees

Authors Fees (Due by 24 March)

- Authors - African States **€100**
- Authors - EU New Member States,
  EU Candidate & Developing Countries **€200**
- Authors - All countries except above **€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 up to 24 March

- Delegate Early Bird - African States **€200**
- Delegate Early Bird - EU New Member States, EU Candidate
  Countries and Developing Countries **€300**
- Delegate Early Bird - All countries except above **€400**

Delegates' Fees - Full Fee from 25 March

- Delegate Full Price - African States **€250**
- Delegate Full Price - EU New Member States,
  EU Candidate & Developing Countries **€400**
- Delegate Full Price - All countries except above **€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

Terms & Conditions

1. All authors who are presenting a paper at **IST-Africa 2014** must complete their payment registration by **24 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 2014 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

While in Mauritius, delegates should visit Grand Bay, Balaclava Ruins (North) Flacq Market, Ile aux Cerfs (East), Vieux Grand Port, Ile aux Aigrettes, Mahebourg, Domaine du Chasseur (South-East) Martello Tower, Chamaret, Salt Pans, Casela (West) and Ganga Talao, Grand Bassin and Black River Gorges (Inland).

Climate

Mauritius has a moderate climate during May with average temperatures of 20 - 25 degrees Celsius during the day. Rains are possible during May and delegates should bring rain wear.

Visa Information

Conference delegates should contact the Mauritian Embassy in your Country of Residence six to eight weeks prior to travelling, to determine if you require a visa, can secure a visa on arrival or must apply for a visa in advance.

African countries whose nationals do not require a visa for Mauritius include: Angola, Botswana, Burundi, Egypt, Gabon, Gambia, Ghana, Kenya, Lesotho, Malawi, Mozambique, Namibia, Rwanda, South Africa, Swaziland, Tanzania, Tunisia, Uganda, Zambia, Zimbabwe.

European countries whose nationals do not require a visa for Mauritius include: Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovenia, Slovakia, Spain, Switzerland, Turkey, UK

If you are travelling through other countries to get to Mauritius, it is necessary to check if you require transit visas.

The **IST-Africa 2014** Organising Committee can only issue Letters of Invitation for visa purposes to delegates after payment for their conference registration has been received.

Vaccinations

Proof of Yellow Fever vaccine (Yellow Book) is required for those arriving from a yellow-fever-infected area in Africa

While no specific vaccinations are required for Mauritius except for delegates coming from Yellow Fever areas, conference delegates travelling to Africa for the first time are recommended to have up to date Tetanus, Hepatitis A and Typhoid vaccines.

Please engage with your personal physician or travel health clinic four to six weeks prior to travelling. If you are travelling through another country on the way to Mauritius, please check if you require any vaccinations for that country.

IST-Africa Initiative

Supported by the European Commission (EC) and African Union Commission (AUC), and Co-Funded under FP7 (Contract 611795), **IST-Africa** facilitates and supports:

- International Innovation, Research and Policy Cooperation
- Knowledge Sharing and Skills Transfer between IST-Africa Partners
- Collaborative Innovation, Entrepreneurship & Adoption of Living Labs
- Africa – EU Strategic Partnership (Information Society, ICT, Innovation)

IST-Africa Activities include:

- Annual IST-Africa Week Hosted by IST-Africa Partner Governments
- Analysis of African Adoption, Implementation, Policy and Research Priorities
- Analysis of African Innovation Spaces, Living Labs and Research Capacity of HEIs
- Horizon 2020 and Living Labs Training Workshops in IST-Africa Partner Countries to Support Research
- Capacity Building and Accelerate Information Society Development and ICT Adoption across Africa
- Participation in Information Society, ICT and Innovation related International Cooperation (including
- Africa - EU Strategic Partnership, EU - AUC Living Labs Taskforce for Africa, CODIST - UNECA and WSIS)
- Horizon 2020 Help Desk supporting African - European Research Collaboration

IST-Africa is a collaborative initiative between IIMC International Information Management Corporation Limited (Ireland, Coordinator), Ministerio da Ciencia e Tecnologia (Angola), 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), Ministere de l'Enseignement Superieur 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 de la Recherche (Senegal), Ministere de l'Enseignement Superieur et de la Recherche Scientifique (Tunisia) and Ministry of Communications and Information Technology (Egypt).

Horizon 2020

Horizon 2020 commenced in January 2014 as the new Framework Programme to implement the Innovation Union with research and innovation funds of €80 billion from 2014 - 2020.

Horizon 2020 addresses all research and innovation funding that was previously provided through the Framework Programmes for Research and Technical Development (e.g. FP7), Competitiveness and Innovation Programme (CIP) and European Institute of Innovation and Technology.

Three main priorities include:

- Excellence Science – Research Infrastructures, Marie Curie (Mobility Grants), Future and Emerging Technologies
- Leadership in Enabling and Industrial Technologies (LEIT) – Components & Systems, Advanced Computing, Future Internet, Content Technologies and Information Management, Robotics, Micro and Nano-electronics and photonics
- Societal Challenges – Health, Food Security & Agriculture, Energy, Transport, Climate action and Environment, Innovation and Reflective Societies and Secure Societies

The Work Programmes for each thematic area were published on 11 December 2013.

ICT is a horizontal activity that is included across a number of Work Programmes within LEIT and within Societal Challenges.

The IST-Africa Guide to 2014 Calls for Proposals within Horizon 2020 provides an overview of Calls, themes and deadlines within the Marie Curie, eInfrastructures, Leadership in Enabling and Industrial Technologies (LEIT - Components and Systems, Advanced Computing, Future Internet, Content Technologies and Information Management, Robotics and Key enabling Technologies (Micro-nano-electronics and photonics)) and each of the Societal Challenges (Health, Food Security and Agriculture, Energy, Transport, Environment, Inclusive and Reflective Societies, Secure Societies) Work Programmes.

Please visit

www.ist-africa.org/home/default.asp?page=horizon2020

to download the individual Work Programmes and

IST-Africa Guide to 2014 Calls for Proposals