

IST-Africa Initiative

Perspectives on Bi-Lateral Approaches to International Research Cooperation

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- IST-Africa (Phase 4: 2012 – '13)**

Supporting Strategic Engagement Between Africa & EU in the areas of Information Society, ICT & STI

18 Ministries/National Councils for ICT & STI participating partners across Africa

Partners Supporting 12 Additional African Countries (Future Partners)

- Objectives**

Supporting the evolution of Africa-EU Information Society & ICT R&D dialogues

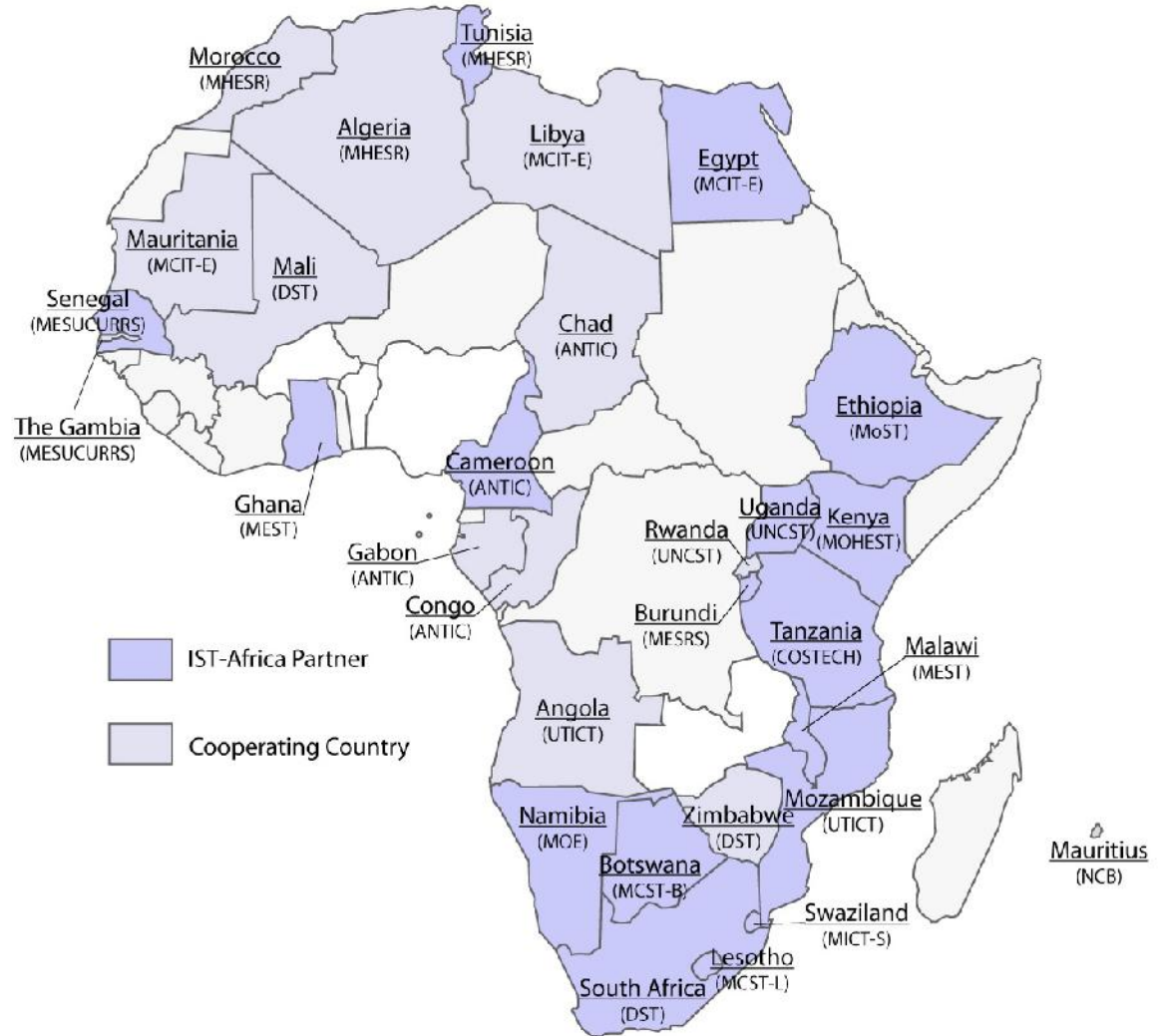
Supporting Implementation of 8th Africa-EU Strategic Partnership (Science, Information Society, Space)

Raising Awareness of African Research Capacity and Promoting Participation in FP7 and Horizon 2020

Supporting European engagement with African organisations including Living Labs & Living Labs Networks

Identifying funding to implement joint projects including Living Labs

Supporting development of National Contact Points (NCP) in IST-Africa Partner Countries



IST-Africa Consortium (Phase 4: Oct 2011 – 2013)

- IIMC International Information Management Corporation Limited (“IIMC”, Ireland)
- Ministry of Infrastructure, Science and Technology (“MIST”, Botswana)
- Ministry of Communications, Science and Technology (“MCST-L”, Lesotho)
- Ministry of Information Communication Technology (“MICT-S”, Swaziland)
- Ministry of Education, Division Research, Science, Technology & Innovation (“MOE”, Namibia)
- Unidade Technica de Implementacao da Politica de Informatica (“UTICT”, Mozambique)
- National Computer Board (“NCB”, Mauritius)
- National Commission for Science and Technology (“NCST”, Malawi)
- Department of Science and Technology (“DST”, South Africa)
- Ministere de l’Enseignement Superieur et de la Recherche Scientifique (“MESRS”, Burundi)
- Tanzania Commission for Science and Technology (“COSTECH”, Tanzania)
- Uganda National Council for Science and Technology (“UNCST”, Uganda)
- Ministry of Higher Education, Science and Technology (“MOHEST”, Kenya)
- Ministry of Science and Technology (“MoST”, Ethiopia)
- Ministère de l’Enseignement Supérieur, des Universités et des Centres Universitaires Régionaux et de la Recherche Scientifique (“MESUCURRS”, Senegal)
- Ministry of Environment, Science and Technology (“MEST”, Ghana)
- Ministry of Communications and Information Technology (“MCIT”, Egypt)
- Ministere de l’Enseignement Superieur et de la Recherche Scientifique (“MHESR”, Tunisia)
- Agence Nationale des Technologies de l’Information et de la Communication (“ANTIC”, Cameroon)

- **Strengthen the research dimension of Information Society & ICT policy dialogues between European Commission, European Member States and African Member States**
 - Repository of ICT Policy Documents from IST-Africa Partner countries
 - Guide to current National ICT Initiatives & Research Capacity
- **Support Implementation of 8th Africa-EU Strategic Partnership (Science, Information Society, Space)**
 - Guide to ICT-related Bilateral Cooperation
 - Contribute to & host P8 Joint Expert Group Meetings @ IST-Africa Conferences
 - Organise IST-Africa Living Labs Working Group Meetings
 - Undertook Survey of Living Labs in IST-Africa Partner Countries, co-created White Paper on “Supporting Sustainable Living Labs and Living Labs Networks in Africa” and undertook Living Labs Training and Validation workshops in South Africa (LLiSA Members), Burundi, Tanzania, Uganda, Ethiopia, Malawi, Swaziland and Zambia

- **Knowledge Sharing and Community Development Events in Africa and Europe**
 - IST-Africa Conference & Exhibition hosted by IST-Africa Partner Countries
 - Annual Forum with 480 - 520 Senior representatives of government, industry, research organisations from 46 – 52 countries
 - IST-Africa 2006 – South Africa, IST-Africa 2007 – Mozambique, IST-Africa 2008 – Namibia, IST-Africa 2009 – Uganda, IST-Africa 2010 – South Africa, IST-Africa 2011 – Botswana, IST-Africa 2012 - Tanzania
 - Plenary Speakers represent AUC, EC, Host Countries, other Key Stakeholders including EU Member States, UN Organisations, World Bank
 - Over 48 parallel thematic sessions, 180 presenters from 39 – 45 countries
 - Annual IST-Africa Workshop showcasing African Innovation @ eChallenges
- **IST-Africa FP7 Training Workshops to raise awareness of opportunities under ICT-Calls 7 – 9 & WP2013**
 - Primary Focus on New Partner Countries, other Partner Countries on request
 - Supporting establishment of National Contact Points in Partner Countries

- **Goal:** Undertake a Survey of ICT-related projects being supported through Bilateral Cooperation with North Africa (Egypt), West Africa (Senegal), East Africa (Burundi, Kenya, Tanzania, Uganda), Central Africa (Cameroon) and Southern Africa (Botswana, Lesotho, Mauritius, Mozambique, Namibia, South Africa) to provide a consolidated reference document to
 - Commence a central repository of ICT related projects being funded
 - Identify potential good practices that can be adapted and replicated in other African countries to maximise socio-economic impact
 - Support the implementation of the 8th Africa-EU Strategic Partnership and inform planning for Horizon 2020.
- **IST-Africa Methodology**

Information sourced through

 - Direct engagement with EU Member States
 - Engagement and briefing meetings with Embassies in IST-Africa Partner countries
 - Information provided by Ministries of Foreign Affairs
 - Additional desk research

Country	ICT/STI Initiatives being Supported	Funding Mechanism
Botswana	IST-Africa Initiative CAAST-Net Capacity-building programme and Community Development in Internet Governance and ICT Policy Southern Africa Innovation Support Programme (SAIS)	FP7 2008 – 2013 FP7 2011 – 2012 EDF9 (@CP-ICT capacity-building programme) 2009 – 11 MFA Finland, 2011 - 2015
Burundi	IST-Africa Initiative PARES Project Great Lakes Inter-University Network (RIGL)	FP7 2008 – 2013 Embassy of France (Burundi, Rwanda and DRC) Embassy of France (Burundi, Rwanda and DRC)
Cameroon	IST-Africa Initiative CAAST-Net Integrated risk management for Africa (IRMA) AfricaBuild	FP7 2009 – 2013 FP7 2011 – 2012 FP7 2008 – 2009 FP7 2011 – 2014
Egypt	IST-Africa Initiative AfricaBuild Virtual Museum Transnational Network (V-MUST.NET) Tools and expertise for 3D Collection Formation (3D-COFORM) CAAST-Net Mediterranean Innovation and Research coordination action (MIRA) EuroAfrica-P8 Bridging Actions for GMES and AFRICA (BRAGMA) EumedConnect: NReNs interconnection to GEANT NATP: Support to Regulatory Reforms and Harmonization in the Mediterranean Region Trans-national cooperation among ICT national contact points (IDEALIST2011) JOIN - MED	FP7 2009 – 2013 FP7 2011 – 2014 FP7 2011 – 2015 FP7 2009 - 2012 FP7 2008 – 2012 FP7 2008 – 2012 FP7 2012 – 2013 FP7 2012 – 2013 ENPI (European Neighbourhood Policy Instrument) 2009 – 2011 ENPI 2009 – 2011 FP7 2008 – 2011 FP7 2009 - 2011

Country	ICT/STI Initiatives being Supported	Funding Mechanism
Kenya	IST-Africa Initiative CAAST-Net ERA-Net Africa Bridging Actions for GMES and AFRICA (BRAGMA) TACIT: Tackling Aids and Tuberculosis through Communication and Information Technologies Africa4All Parliamentary Initiative Capacity-building programme and Community Development in Internet Governance and ICT Policy ict@innovation Empowering SHGs in Kenya and India through ICT for better education and alternative livelihood opportunities	FP7 2012 – 2013 FP7 2008 – 2012 FP7 2010 – 2013 FP7 2012 – 2013 EDF9 (@CP-ICT) 2009 – 11 EDF9 (@CP-ICT) 2009 – 11 EDF9 (@CP-ICT) 2009 – 11 BMZ Germany 2008 – 2010 SPIDER/SIDA, Sweden, 2007 - 2010
Lesotho	IST-Africa Initiative Africa4All Parliamentary Initiative	FP7 2008 – 2013 EDF9 (@CP-ICT) 2009 – 11
Mauritius	IST-Africa Initiative IPv6 Deployment Support (6DEPLOY-2) EASSy Deep-sea fibre cable East-Africa Underwater Telecommunication Cable	FP7 2008 – 2013 FP7 2010 – 2013 German Federal Ministry of Economic Cooperation (BMZ), AfDB, AFD, IFC
Mozambique	IST-Africa Initiative EO2HEAVEN Support Action to GMES-Africa on Earth Observation (SAGA-EO) Integrated risk management for Africa (IRMA) STIFIMO , Creating Sustainable Business in the Knowledge Economy Southern Africa Innovation Support Programme (SAIS) Mobile Banking in Rural Areas Government Electronic Network SISTAFE ExTTI: Excellence in ICT Use for Learning Purposes, Through Innovation Contributions ict@innovation	FP7 2008 – 2013 FP7 2010 – 2013 FP7 2010 – 2012 FP7 2008 – 2009 MFA Finland 2010 – 2014, MFA Finland 2010 – 2012 MFA Finland, 2011 - 2015 German Federal Ministry of Economic Cooperation MFA Italy 2010 - 2013 Belgium & Norway 2010 – 2012 EDF9 (@CP-ICT) 2009 – 11 BMZ Germany 2008 - 2010

Country	ICT/STI Initiatives being Supported	Funding Mechanism
Namibia	IST-Africa Initiative Southern Africa Innovation Support Programme (SAIS) Africa4All Parliamentary Initiative TACIT: Tackling Aids and Tuberculosis through Communication and Information Technologies ict@innovation	FP7 2008 – 2013 MFA Finland, 2011 – 2015 EDF9 (@CP-ICT) 2009 – 11 EDF9 (@CP-ICT) 2009 – 11 BMZ Germany 2008 - 2010
Senegal	IST-Africa Initiative CAAST-Net EuroAfrica-P8 Support Action to GMES-Africa on Earth Observation (SAGA-EO) VOIce-based Community-cEntric mobile Services for social development (VOICES) Integrated risk management for Africa (IRMA) SIST Project Community Multimedia Centres & Code Learn	FP7 2008 – 2013 FP7 2008 – 2012 FP7 2012 – 2013 FP7 2012 – 2013 FP7 2011 - 2013 FP7 2008 – 2009 France Switzerland
Tanzania	IST-Africa Initiative Creating Sustainable Business in the Knowledge Economy Information Society and ICT Sector Development Programme TANZICT Health Informatics Systems Programme & Masters in Health Informatics TANSENE for Post Doctoral Support ICT for Rural Development ICT Leadership Projects & Educational Projects NET-TEL Africa Young Scientists Tanzania Africa4All Parliamentary Initiative ict@innovation	FP7 2008 – 2013 MFA Finland 2010 – 2012 MFA Finland 2009 – 2010 MFA Finland 2011 – 2015 NORAD SIDA & Netherlands SIDA SIDA SIDA Irish Aid & Pearson 2011 – EDF9 (@CP-ICT) 2009 – 11 BMZ Germany 2008 - 2010

Country	ICT/STI Initiatives being Supported	Funding Mechanism
South Africa	IST-Africa Initiative CAAST-Net EuroAfrica-P8 / EuroAfrica-ICT Bridging Actions for GMES and AFRICA (BRAGMA) VOIce-based Community-cEntric mobile Services for social development (VOICES) EO2HEAVEN ERA-Net Africa Advanced Autonomous Model-Based Operation of Industrial Process Systems (AUTOPROFIT) Towards an open and sustainable ICT research infrastructure strategy (OSIRIS) project Integrated risk management for Africa (IRMA) Advancing ICT for DRM in Africa (AIDA) Shrink-Path of ultra-low power super-conducting electronics (S-PULSE) FLOSS INCLUDE DIGITALWORLD Global RFID interoperability forum for standards (GRIFS) SAFIPA & COFISA Programmes Establishing National CSIRT Capacity for South Africa INSPIRE Programme Creating Sustainable Business in the Knowledge Economy ict@innovation	FP7 2008 – 2013 FP7 2008 – 2012 FP7 2012 – 2013 / FP7 2010 - 2011 FP7 2012 – 2013 FP7 2011 – 2013 FP7 2010 – 2013 FP7 2010 – 2013 FP7 2010 – 2013 FP7 2010 – 2011 FP7 2008 – 2009 FP7 2008 – 2010 FP7 2008 – 2010 FP7 2008 – 2010 FP7 2008 – 2009 FP7 2008 – 2009 MFA Finland 2006 – 2011 MFA Finland 2009 – 2010 MFA Finland 2008 – 2010 MFA Finland 2010 – 2012 BMZ Germany 2008 - 2010

Country	ICT/STI Initiatives being Supported	Funding Mechanism
Uganda	IST-Africa Initiative CAAST-Net EO2HEAVEN EuroAfrica-ICT Irish-African Partnership for Research Capacity Building NPT Project on 'Strengthening ICT Training and Research Capacity in the Four Public Universities in Uganda' Mobile Innovation and Enterprise Makerere University Institutional Development Programme Makerere University Africa4All Parliamentary Initiative TACIT: Tackling Aids and Tuberculosis through Communication and Information Technologies ict@innovation	FP7 2008 – 2013 FP7 2008 – 2012 FP7 2010 – 2013 FP7 2010 - 2011 Irish Aid Netherlands 2007 – 2011 British Council NORAD SIDA EDF9 (@CP-ICT) 2009 – 11 EDF9 (@CP-ICT) 2009 – 11 BMZ Germany 2008 - 2010

- Findings To Date

- Healthy number of cross-border projects in place from whom lessons learnt and results to date could be usefully applied in other African countries
- EU Member States who are most active in supporting ICT-related initiatives though bi-lateral cooperation agreements include Finland, Norway, Sweden, Germany, Italy, Belgium, France and Switzerland
- Number of African participants in FP7-ICT and STI related Calls is gradually increasing as there is greater visibility of the potential of African research organisations and active partnerships facilitated
- Overall the number of ICT related projects at national level is lower than desirable considering strong horizontal enabling role that ICT can offer (education, healthcare, public service delivery and infrastructure).
- Increasing awareness of strategic impact that investment in ICT and STI can make in supporting capacity building and sustainable economic development
- Critical to review achievements, approaches and lessons learnt from other African countries as reference for national/regional planning
- Survey will be expanded during 2012 – 2013 to include new IST-Africa partner countries including Malawi, Ghana, Tunisia and Ethiopia

- Context for Bi-Lateral International Cooperation with Africa
 - Will take time to encourage national universities in some African Member States to adopt the vision and change management necessary to gradually transform from primarily teaching institutions to research and innovation engines contributing to socio-economic development.
 - Quality & Maturity of Research Undertaken at National Level is often at very different levels within countries and from one country to another
 - Understanding of what Research involves can also be quite different from Department to Department (based on their prior experience of Individual Research Projects, Team Work & Cross Border Research)
 - Common Priorities Identified Include Technology Enhanced Learning, eHealth, eAgriculture, Digital Libraries, Trustworthy ICT, eInfrastructures
 - Differences in Infrastructure from country to country and region to region

- **Mechanisms currently available for Collaboration?**
 - Bi-lateral cooperation (EC and/or EU Member States & African MS)
 - FP7 research funding
 - Some IPCP Countries starting to support cross-border cooperation
- **What are some of the barriers and obstacles?**
 - FP7 not the most suitable instrument for developing countries
 - Too often the left hand does not know what the right hand is doing
 - Governments in many developing countries do not prioritise ICT and STI in negotiating bi-lateral or EDF funding envelopes
 - EDF funding totally underutilised to support ICT and STI adoption, policy and research as enablers of socio-economic development
- **What mechanisms are needed?**
 - Leverage EDF funding at ACP, REC and Member State Level
 - More SICAs or reconsideration of project goals under Horizon 2020
 - Better Coordination of EU Member State bi-lateral funding

- Supporting the Evolution of Sustainable Living Labs and Living Lab Networks in Africa
 - IST-Africa Guide to National ICT Initiatives and Research Priorities
 - IST-Africa Guide to ICT-related Bilateral Cooperation
 - IST-Africa Guide to National ICT Policies
- <http://www.ist-africa.org/home/default.asp?page=reports>
- Next Steps
 - Register Profile in the Community Showcase and Mailing List
 - Send news, events and reports to be published
 - Contribute to new version of ICT-related Bilateral Cooperation Guide

www.IST-Africa.org

- **Share Lessons Learnt from Member State(s) – International Cooperation Partner Countries (ICPC) and/or EU – ICPC**
- **What are some concrete – specific collaborative projects between EU and individual ICPC Countries**
- **What mechanisms are currently available?**
- **What are some of the barriers or obstacles to cross-border cooperation?**
- **What mechanisms are needed to support cross-border cooperation? What should some of the success factors be for these types of projects?**
- **Appropriate success metrics for bi-lateral international cooperation projects?**