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1. Personal Information

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Marital status: Married

2. Education

Postgraduate

Ph.D. degree in strategic management of information systems, University of Cambridge, U.K., January, 1990.

Undergraduate

First Class Honours degree in Electrical & Electronics Engineering, University of Bath, U.K., 1983.

High School

Thika High School (1978 – 1979); 3 Principal A's and Distinction in General Paper
Kabaa High School (1974 – 1977); Division I

3. Brief Resume

Timothy Mwololo Waema is a Professor of Information Systems in the School of Computing and Informatics in the University of Nairobi. He holds a Ph.D. degree in Strategic Management of Information Systems from the University of Cambridge (UK) and a Bachelors Honours Degree in Electrical and Electronics Engineering from the University of Bath (UK). Prof. Waema has extensive ICT for development (ICT4D) research experience in different sectors, including government, education, financial services, agriculture, and small and medium enterprises. He has carried out extensive consultancy in many aspects of ICTs and development, including policy and strategy development, software development, procurement, project management, and network infrastructure design and development in both public and private sectors. He has consulted for numerous ministries and state agencies in Kenya and other African countries on ICT and related issues. He has published widely in journals, conference proceedings and in books and sits on editorial boards of several peer reviewed journals. Prof. Waema has broad corporate experience and is a Professional Member of the Association for Computing Machinery (ACM), the largest association of computing professionals globally. He also sits in boards of several public and private sector organizations.

4. Employment History

2012 to present	Professor of Information Systems, School of Computing and Informatics, University of Nairobi
2006 to 2012	Associate Professor, School of Computing and Informatics, University of Nairobi
2002 to 2006	Director of ICT, University of Nairobi
1996 to 2001	Director, Institute of Computer Science, University of Nairobi
1994 to 1996	Acting Director, Institute of Computer Science, University of Nairobi
1995 to 2005	Senior Lecturer, School of Computing and Informatics, University of Nairobi
1991 to 1995	Lecturer, Institute of Computer Science, University of Nairobi
1990 to 1991	Senior Assistant Manager, Software Development, Planning and Engineering Dept., Kenya Posts & Telecommunications Corporation
1985 to 1986	Executive Engineer, Kenya Posts & Telecommunications Corporation
1983 to 1985	Training Engineer, Kenya Posts & Telecommunications Corporation

5. Relevant Experience

5.1 PhD Supervision and Examination

1. Macire Kante - A model for ICTs contribution to the access and use of agricultural input information in developing countries: Case of Sikasso in Mali, University of Nairobi, 2018.
2. Paul Wando Mungai - Causal Mechanisms that Enable Institutionalization of Open Government Data in Kenya, University of Cape Town, South Africa, 2017.
3. Daniel Ntabagi Koloseni - The Practice of Information Security: An Analysis of Government Employees in Tanzania Using the Health Belief Model (HBM), Universiti Tunku Abdul Rahman, Malaysia, 2017.
4. Dr. Ibrahim Otieno - A Citizen-Centric Model for Evaluating the Impact of E-government: A Case Study of Huduma Centres in Kenya, University of Nairobi, 2016.
5. Dr. Henry Mwangi - A Within Host System Dynamics Model of HIV/AIDS, Tuberculosis and Malaria Treatment Policy, University of Nairobi, 2016.
6. Dr. Samuel Ruhui - Exploring the Conversion of ICTs to Capabilities in Poverty Reduction Projects, University of Nairobi, 2016.
7. Dr. James B.M. Kariuki - Analysis of Designed and Emergent Consequences of Mobile Banking Usage by SMEs in Kenya Using Ethnographic Decision Tree Modeling, University of Cape Town, South Africa, 2014.
8. Dr. Shakespear Mudombi - Analysing the contribution of ICTs in addressing climate change amongst communal farmers from two districts of Zimbabwe, University of South Africa (UNISA), South Africa, 2014.

9. Dr. Phillip Kiyeng Chumo – Information Systems Strategic Alignment in Kenyan Public Universities: Assessment of Planning and Implementation Practices Free University of Brussels, 2014
10. Dr. Isaac Mutwiri Mutunga - Mobile Phone and Rural Livelihoods: Context, Level and Dimension of Use and Challenges among Smallholder Farmers in Machakos, Kenya, University of Nairobi, 2013.
11. Dr. Andrew Mwaura Kahonge - User behaviour modeling for web application security, University of Nairobi, 2013.
12. Dr. Diroubinee Mauree-Narrainen, IT Governance with Knowledge Management for Organizations – A Mautian Perspective in the Banking Sector, University of Technology Mauritius, Mauritius, 2013.
13. Dr. Andile Simphiwe Metfula - The Interplay Between Policy Network Actors and Information and Communication Technology Policies in a Developing Country Context, Department of Information Systems, University of Cape Town, South Africa, 2013.
14. Dr. Tonny K. Omwansa - Modelling adoption of mobile money by the poor in Kenya, University of Nairobi, 2012.
15. Dr. Martina Mutheu Mulwa - The role of wireless communication in Financial inclusion: A case study of selected mobile banking products in Makueni County, University of Nairobi, 2012.
16. Dr. Daniel Ochieng Orwa - User-centric Information and Communication Technology Adoption Model for Rural Farming Communities in Kenya, University of Nairobi, 2012.
17. Dr. Maureen Cynthia Taner – The social and contextual influences on Distributed Agile Software Development: A Theory of Practice Perspective, Department of Information Systems, University of Cape Town, South Africa, 2012
18. Dr. Margaret Nyambura - Development outcomes of the new technologies to the quality of life of low income households in Kenya: A case study of Nairobi, University of Nairobi, 2011.
19. Dr. Agnes Wausi – Organizational implementation of information systems innovations: Case universities in Kenya, University of Nairobi, 2009.
20. Dr. Tiko Osa Iyamu – Impact of organizational politics on IT strategy, University of Cape Town, South Africa, 2007.
21. Dr. xxxx, A student of Prof Dewald Roode, University of Cape Town, South Africa, 2006.
22. Dr. Elijah Omwenga – Modeling and analyzing a computer-mediated learning infrastructure, University of Nairobi, 2003.

5.2 Funded Research Projects

The following are research grants obtained in the last few years:

Research project title	Purpose	Duration	Funding agencies	Amount
Community-based Adaptation conference	To fund 25 young researchers , 5 selected supervisors and 2 climate	3 months in 2015	IDRC	KES 15,182,600.84

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Research project title	Purpose	Duration	Funding agencies	Amount
grant, 2015	change experts funded through various Climate Change and Water IDRC award programs (African Climate Change Fellowship Program - ACCFP; Adaptation H2O; ICTs, Water and Climate Change Awards program and AARC-Ghana awards program) to participate in the 9 th international conference on community-based adaptation (CBA) from 27-29 April 2015			
Application on ICTs for Water Management under Changing Climatic Conditions: Research Awards Program Project	To fund research projects on ICTs, climate change and water management in Africa, Asia and Latin America	2012-2016	IDRC	US\$ 1,045,676.75
Baseline survey of engineering departments in 12 universities in Kenya	To collect and analyse baseline data on engineering departments in 12 universities in Kenya, compile a report and make presentations to stakeholders	12 months	Kenya Education Network (KENET)	KES 5 million
The Promises of Fibre-Optic Broadband: A Pipeline for Economic Development in East Africa?	To expand our understanding of the social and economic impacts of Information and Communication Technologies in the context of development	2011-2014 (30 months from Sep 2011)	Economic and Social Research Council, UK	British pounds 103,247
The role of performance contracting in the University of Nairobi and management of higher education in Kenya	To study the impact of performance contracting in the University of Nairobi on governance and the role of this reform in the management of higher education in Kenya	2011-2012	UNESCO - IIEP	US\$ 5,000
Survey on ICT access and usage in Kenya	To carry out a comprehensive survey of ICT access and usage in households, micro and small enterprises and schools in Kenya	2011-2012	African Communications Research Institute	Rand 125,000 KES 1.44m
E-readiness of universities in Eastern Africa	Assess E-readiness of 50 universities in Eastern Africa, develop generic roadmaps and assist 10 universities to ascend to higher levels of e-readiness	2008-2012	Rockefeller Foundation	US\$ 600,000
Business process outsourcing (BPO)	Establish the critical success factors by studying 8 countries to inform BPO policy and strategy in Kenya	2008-2010	IDRC	CAN\$ 400,000
Poverty and Information & Communication Technology Systems in Urban and Rural Eastern-Africa (PICTURE Africa)	Carry out research on ICTs and poverty in Kenya to inform future policy decisions concerning the allocation and targeting of resources for poverty reduction	2006-2011	IDRC	CAN\$ 350,000
ICT research grants for	Offer research grants to M.Sc. and	2009-2012	IDRC, Ottawa,	CAN\$

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Research project title	Purpose	Duration	Funding agencies	Amount
Eastern and Southern African countries	Ph.D. students studying in Eastern and Southern Africa countries		Canada	466,878
ICT sector performance review - evidence based ICT policy making and regulations	Conduct research into current policy outcomes through supply and demand side studies in order to make public interested interventions in ICT policy and regulatory processes	2009-2010	The Edge Institute, South Africa	ZAR 216,000
ICT and local governance	To carry out research on the impacts of ICTs on good governance at local government level	2006-2010	IDRC	CAN\$ 1,335,400
ICTs and agriculture	To develop novel and innovative ICT solutions to solve the problem of rural farming communities	2006-2009	British Eng. and Physical Sciences Research Council	UK Pounds 32,400.00
Household survey on access and usage of ICTs	Carry out national household survey on access, use and impact of ICTs in Kenya	2007-2008	Research ICTAfrica.net, South Africa	ZAR 506,100
Electronic waste (e-waste) management	Assess the status of e-waste management in Kenya and propose a roadmap	2007-2008	Digital Solidarity Fund, HP, Empa	US\$ 22,000
ICT sector performance sector survey	Assess the performance of the ICT sector in Kenya in the last five years	2006 – 2007	Research ICTAfrica.net, South Africa	ZAR 105,000
Internet market study	Create baseline information on the Internet market in Kenya, establish why Internet penetration has been low and create an interactive Internet market database	2006-2007	Communications Commission of Kenya (CCK)	KES 4m
ICTs and regional governance	Impact of regional institutions on ICT governance in Kenya	2005-2006	Research ICTAfrica.net, South Africa	ZAR 10,000
ICTs and SMEs	Carry out a study on access, use and impact of ICTs in the SME sector in Kenya	2005-2006	Namibian Economic Research Policy Unit	ZAR 67,315
Universal access for information and communication services in Kenya	Research and consultations leading to the definition and articulation of a policy, mechanisms and a plan for a Universal Access (UA) Strategy for Kenya's info-communications Sector	2004-2005	IDRC and CCK	US\$ 110,000

5.3 University Leadership and Management Experience

- (a) **University Council.** A current member of the Strathmore University Council (2015-2018); a current Advisory Board member of the Carnegie Mellon University – Rwanda,

representing the Government of Rwanda; and a former member of the Mombasa Technical University Council (2008-2011 & 2011-2014). I have served in Audit Committee (as Chair), HR Committee, Strategy Committee and Oversight Committee.

- (b) **Corporate Governance.** In addition to the Council experience in (a), I have been in Boards of both public and private companies. The key ones include Chair of the Management Board of the Kenya Education Network, the national research and education network; member of the Board of the ICT Authority, the public body in charge of ICT in Government; and Chair of Netcom Information Systems, a private management and ICT company.
- (c) **University Management Board.** A member of the University of Nairobi Management Board as the Director of ICT (2002-2006). During this period, I also served as a member of the University Budget Committee, where institution-wide resources allocation is carried out.
- (d) **Deanship.** The Dean/Director in charge of the Institute of Computer Science, University of Nairobi (1994-2001). During this period, I led the development of two Masters and two PhD programs and several revisions of the existing Bachelors program in Computer Science. I also identified, recruited, retained, and develop academicians and academic leaders upto upto PhD level. Finally, I developed and implemented the strategy of the Institute/Faculty, aligned to the corporate strategy.
- (e) **University strategy development.** I have been Team Leader of the Strategic Committee of the University for the last 8 years. During this period, my team has developed and reviewed two 5-year strategic plans. I have also been involved in all the developments of University strategy since the 1990s and in cascading the corporate strategy to lower level units.
- (f) **University performance management.** I was the Team Leader of the University Performance Contract (PC) team processes for over 4 years. During this period, my team developed, negotiated and monitored the PC signed between the University and the Government.
- (g) **Change management.** I chaired a committee that re-structured Central Administration of the University, including the offices of the VC and DVCs. I was also a member of a team that rationalised all the functions of the University at the end of the 1990s.
- (h) **Initiating change.** I have been a key person in initiating the following changes in the University:
 - 1. **University ICT Centre and School of Computing & Informatics.** I spearheaded the split of the former Institute of Computer Science into the ICT Centre in charge of University Computing Services and the School of Computing & Informatics in 2002.
 - 2. **Graduate School.** I led a team that created the Graduate School out of the former Board of Postgraduate Studies in 2015.
 - 3. **ODEL Campus.** In 2015, I led a team that created the Open, Distance and electronic Learning (ODEL) Campus out of the existing three units that were involved in open, distance and electronic learning.

4. **Incubation Policy.** In 2014, I chaired a committee that developed the University Incubation Policy to start commercialization of innovations from research outputs.
 5. **University Restructuring.** I chaired a committee that re-structured Central Administration of the University, including the offices of the VC and DVCs. I was also a member of a team that rationalised all the functions of the University at the end of the 1990s. I have now been requested to again review the structure of University Central Administration, including its Constituent Colleges.
- (i) **Research.** I have been active in research, collaborating with local and international partners as is evident from my CV. I have been mentioned in two consecutive Vice-Chancellor's graduation speeches as one of the persons attracting high external research grants. I have gained a lot of experience in managing research grants, including writing technical and financial reports.
 - (j) **Research Dissemination.** I have organised many policy workshops to disseminate research findings to policy makers.
 - (k) **Innovation.** I chaired a Committee that developed the first Incubation Policy to start addressing commercialization of innovations. I also led a team that created a multi-disciplinary R&D Centre of Excellence in Computing for Development (C4D) and created an incubation centre for startups within it. Finally, I led a team that organised the first Nairobi Innovation Week in 2015, which was hugely successful. During this week, we launched the African Technology Innovation Accelerator (AfTIA) to incubate and accelerate technology startups arising from our research outputs.

5.4 Professional and Other Activities

- (a) A member of **Strathmore University Council**, 2015-2018.
- (b) A member of **CPRsouth Board**, 2014-2017. CPRsouth is an Africa and Asia Research Network that researches and publishes on ICTs and policy.
- (c) A member of the **Joint Advisory Board, Carnegie Mellon University – Rwanda** on behalf of the Government of the Republic of Rwanda.
- (d) Chairman of the **Taskforce to Review and Develop the 2017 Kenya National ICT Master Plan**, 2013-2014.
- (e) Member of the **"Taskforce on Alignment of Higher Education, Science and Technology to the Constitution"**, 2011-2012.
- (f) In **Editorial Board** of the **African Journal of Science, Technology, Innovation and Development (AJSTID)**.
- (g) The **Book Editor** in the **International Journal of Computing and ICT Research (IJCIR)**.
- (h) Formerly in the **Editorial Board** of an International Journal, *Information Technology for Development*, ISSN:0268-1102.
- (i) A **Founder Member** of the *International Federation for Information Processing (IFIP) Working Group 9.4*. This group is concerned about information systems in developing countries.

- (j) A **Professional Member** of the *Association of Computing Machinery (ACM)*. This is the top Computer Science professional association in the world.
- (k) Certified by the Kenya Corporate Governance Institute as **corporate governance trainer**.
- (l) **Head of the Kenyan node** of the *ResearchICTAfrica (RIA)*, a Pan-African research network on ICT policy and regulation in Africa.
- (m) A **Founder Member and Secretary** of the *Information Technology Standards Association (ITSA) of Kenya*.
- (n) The **Chairman** of the Management Board of the *Kenya Educational Network (KENET)*, the national research and education network (NREN) and was previously the Chairman of the Implementation Committee that brought Internet to most universities in Kenya.
- (o) **Board Member** of Kilala Secondary School and former **Board Member** of Kiundwani Secondary School, all in Machakos County.
- (p) **Chair and/or Director** in Board of Directors in seven private investment and consultancy companies in Kenya.
- (q) A member of the **Mombasa Technical University Council**, 2008-2011 and 2011-2014.
- (r) **Member** of the “**Taskforce on Skills Development for Attaining Vision 2030 Objectives**”, 2009 - 2010.

5.5 Research and Consultancy Projects

- (a) **e-readiness survey of 30 universities in Kenya (2015/2016)**. Co-Principal Researcher in carrying out the 5th e-readiness survey of Kenya universities.
- (b) **Baseline surveys of Engineering, IT/Computer Science and Health Schools in Universities (2014-2016)**. Carried out baseline surveys to establish the status of Engineering, IT/Computer Science and Health Schools in Universities in Kenya. This survey includes undergraduate and graduate students, faculty status and productivity, resource allocation, etc.
- (c) **ICTs and Climate Change (2012-2015)**. Lead Researcher in application on ICTs for Water Management under Changing Climatic Conditions: Research Awards Program Project for Africa, Asia and Latin America regions supported by IDRC. It involved four MoUs with partners in Asia and Latin America.
- (d) **Impact of Fibre-Optic Broadband in BPO/ITES, Tourism and Tea Sectors in Kenya and Rwanda (2011-2014)**. Lead Researcher in Kenya in collaboration with University of Oxford (UK) and the National University of Rwanda and supported by the Economic and Social Research Council, UK.
- (e) **E-readiness of universities in Eastern Africa (2008-2012)**. Lead Researcher in assessing E-readiness of 50 universities in Eastern Africa, develop generic roadmaps and assist 10 universities to ascend to higher levels of e-readiness. The research was supported by Rockefeller Foundation.

- (f) **Research ICT Africa (2011-2012)**. Lead Researcher on nation-wide household survey on access and usage of ICTs at the household and micro- and small enterprise levels in Kenya.
- (g) **Research ICT Africa (2009-2010)**. Lead Researcher to conduct research into current policy outcomes through supply and demand side studies in order to make public interested interventions in ICT policy and regulatory processes.
- (h) **Precision Air (2010)**. Member of a team that developed a HR performance management system for Precision Air and presented the same to management in a three-day workshop.
- (i) **University of Nairobi (2005-2010)**. Member of a Committee to develop the performance contract between the University and the Ministry of Education every year.
- (j) **Government of Kenya (2008/2009)**. Team Leader of a consultancy/research assignment to review the achievements of the 2004-2007 e-Government strategy and to develop the 2008-2012 e-Government strategy for Kenya.
- (k) **Research Capacity Building Workshop (2010)**. Organized a six-day workshop to build capacity on research proposal writing, writing and publishing of scientific papers, data analysis and other aspects of the research process for 24 PhD and Masters students from seven African countries and various universities in Eastern and Southern Africa.
- (l) **E-waste assessment (2007-2008)**. Lead researcher in assessing the status of electronic waste in Kenya and drawing up a roadmap for policy influence.
- (m) **Bridging the digital divide for rural communities (2006-2009)**. Kenyan Team Leader in a research project with 5 other UK universities to develop novel and innovative ICT solutions to solve the problem of rural farming communities. This project has attracted a number of Masters and Ph.D. students.
- (n) **ICT and Poverty (2006-2011)**. Team Leader in carrying out countrywide and longitudinal research on the impacts of ICT on poverty alleviation funded by IDRC in three Eastern Africa regional countries.
- (o) **LOG-IN Africa (2006-2010)**. Research Director of a Pan-African research on the impact of ICT on governance in local governments in 10 African countries. We produced over 30 journal papers, organized an international conference on e-governance, produced several policy briefs and wrote a book on e-governance.
- (p) **ICT and local governance (2006-2008)**. Carrying out research on ICT and local governance in Kenya as part of regional (African) research network on ICT and local governance, funded by IDRC.
- (q) **Research ICT Africa (2007-2008)**. Lead Researcher on nation-wide household survey on access and usage of ICTs at the household level in Kenya.
- (r) **E-readiness in higher education institutions (2006-2007)**. Co-team leader on research on e-readiness of higher educational institutions
- (s) **ICT and Small Business Enterprises (2005)**. Lead researcher on access and use of ICT in small business enterprises (SMEs) in Kenya as part of a regional (African) SME E-Access and E-Usage Survey, sponsored by IDRC.
- (t) **Regional institutions and ICT governance (2005)**. Carried out research on the role of regional institutions, e.g. COMESA, AU, ARICEA, etc. on e-strategies in Kenya. The

results of this research was compiled by ResearchICTAfrica (RIA) and presented in WSIS in Nov. 2005.

- (u) **Ministry of Planning and IDRC (2005)**. Lead researcher in the development of the institutional structure for implementing the national ICT policy. Produced a report proposing institutional framework required for the development and implementation of the national ICT policy.
- (v) **E-Government Directorate (OP) and IDRC (2005)**. Lead researcher/consultant in baseline survey of ICT in Government. Produced an e-readiness report of Government ministries and created new indicators for e-readiness in Government.
- (w) **Communications Commission of Kenya (2003/4)**. Lead researcher/consultant in the development of policy and strategy for universal access to info-communication services in Kenya. Produced a Universal Access Strategy for Kenya to be incorporated in the national ICT policy. The overall objective of the project was to conduct research and consultations leading to the definition and articulation of a universal access (UA) strategic plan, the establishment and definition of a mechanism for funding universal access in the Kenya communications sector, and the preparation of operational guidelines for the implementation of the universal access strategic plan.
- (x) **Ministry of Finance (2002) - E-readiness assessment**. Lead researcher/consultant in the e-readiness assessment for Kenya. Produced the first national e-readiness report for Kenya.
- (y) **University of Nairobi (1998-2005)**. Research on ICT and open and distance learning and information systems. Research in both areas on-going.

5.6 ICT Consultancy

- (a) **Ministry of Education, Science and Technology, Kenya (2017)**. Team Leader for the development of the ten-year (2017 – 2027) Science and Technology Park (STP) Master Plan for Kenya's industrialization through design and implementation of science and technology parks.
- (b) **Kenya Power and Lighting Company Ltd, Kenya (2017)**. Team Leader in Kenya Power and Lighting Company (KPLC) Ltd project "Business Opportunities in Fibre Optic Broadband" to carry out a feasibility study and recommend viable technical models and business opportunities within the legal and environmental framework of the business. The project was to specifically determine the feasibility of diversifying from dark fibre leases to lit fibre provision and data centre services.
- (c) **ICT Policy Analyst, Dar-es-Salaam Corridor (2016)**. Policy Analysis consultant to develop the policy for the Dar-es-Salaam Transport Corridor Performance Management System (CPMS) that will monitor the performance of transportation of people, goods and services along Dar-es-Salaam Corridor from and into Zambia, Malawi and DRC.
- (d) **Kenya Revenue Authority (2014)**. Consultant to develop the 2nd KRA ICT strategy aligned to the 5th Corporate KRA strategy, National ICT Master Plan and Vision 2030.
- (e) **Communications Commission of Kenya/Ministry of Information and Communication (2012)**. Developed the National Broadband (high speed connectivity) Strategy for

- Kenya for the next medium term plan (MTP) of Vision 2030 (2013-2017). This included an implementation plan for the next five years and a description of the flagship projects.
- (f) **Judiciary (2012)**. Provided consultancy services in developing the ICT strategy for the Judiciary in line with the Judiciary Transformation Framework and the Constitution. We also produced an implementation plan for the next five years.
 - (g) **Kenya ICT Board (2010)**. Consultant on establishing a center of excellence (COE) for foundational skills for the IT Enabled Services ITES/BPO industry in Kenya.
 - (h) **Kenya Education Network (2010)**. Chairman of a tender evaluation committee to evaluate international tenders for the Supply, Installation, Configuration & Commissioning of a Network Operations Center (NOC) and Related Software for Kenya Education Network (KENET).
 - (i) **Kenya Education Network (2010)**. Chairman of a tender evaluation committee to evaluate international tenders for IRU Bandwidth and Related Termination Equipment for KENET.
 - (j) **National ID Agency (NIDA), Tanzania (2009)**. Consultant to develop implementation strategy for phase I of the implementation of national ID registration for eligible Tanzanians.
 - (k) **National ID Agency (NIDA), Tanzania (2009)**. Consultant to develop a project document for piloting the implementation of ID registration for eligible Tanzanians on behalf of NIDA.
 - (l) **Better Regulation Unit, Tanzania (2008)**. Consultant to help develop a project for computerizing and scanning company records for the Business Registrations and Licensing Agency and costing a project on computerization of birth and death records for RITA.
 - (m) **World Bank (2008)**. Independent Assessment of Quality of World Bank's Governance and Anti-Corruption Measures in the Kenya Transparency, Communication and Infrastructure Project
 - (n) **Better Regulation Unit, Tanzania (2007-2008)**. Chief ICT consultant in establishing the requirements and preparing a project plan and budget to computerize all the key areas of operation for the business registry agency (Business Registrations and Licensing Agency, BRELA) and implementing a new law on business activities registration.
 - (o) **Electronic waste management (2007-2008)**. Lead researcher in investigating the status of electronic waste management and drawing up a roadmap for discussion with stakeholders, including policy makers.
 - (p) **Communications Commission of Kenya (2006/2007)**. Team Leader in a study/consultancy to assess the Internet market in Kenya and advise CCK on the way forward.
 - (q) **United Nations Environmental Programme, UNEP (2006)**. Information Management Expert to carry out data and information needs of the various institutions involved in the Eastern Africa coastal and marine environmental resources management at the national, regional and international levels and to develop an information management

- strategy for adoption by UNEP/WIO-LaB Project and Nairobi Convention for the improvement the existing web-based information system.
- (r) **Corporate Affairs Commission, Nigeria (2006/2007)**. ICT consultant to re-engineer the processes/procedures of business registration in Nigeria, develop the specifications for an integrated system for business and tax registration and supervise its implementation.
 - (s) **Office of Registrar General, Kenya (2005/2006)**. ICT consultant to review existing systems for business registration, re-engineer business registration processes and make recommendations.
 - (t) **POTRAZZ, Zimbabwe (2005)**. Sole consultant in facilitating a workshop on Universal Service Fund management.
 - (u) **Directorate of E-Government, OP and UNDP (2005)**. Sole consultant in rolling out a computer-based system for monitoring economic-wide reforms in all the ministries and carrying out the necessary training.
 - (v) **University of Nairobi (2005)**. Led a Task Force to restructure Central academic and administrative units, including Colleges and Students Welfare Association.
 - (w) **University of Nairobi (2005)**. Key resource person to develop the performance indicators and targets and performance contract and to evaluate quarter one performance review for the University of Nairobi.
 - (x) **Kenya Wildlife Services (2005)**. Developed an ICT programme proposal for KWS to be used for resource mobilization.
 - (y) **DFID (Kenya) and Government of Kenya (2005)**. Sole consultant to review the implementation of an integrated financial management information system (IFMIS) in Government and to make recommendations for the way forward.
 - (z) **EPZA (2003)**. Trained the EPZA board on corporate governance.
 - (aa) **World Bank/KP&TC (2000)**. Team Leader in a project management assignment that involved a pilot project to try the commercial and technical viability of the provision of telecommunication services in the rural areas.
 - (bb) **Information Systems Strategy Development**. Evaluated the corporate business requirements and developed the Information Systems strategy in the following organizations: Analysys Ltd, UK (1988/89), Kenya Commercial Bank (1988), Kenya Posts and Telecommunications (1991/92), Ministry of Local Government, Kenya Urban Transport Infrastructure Project (1994/95), Kenya Railways Corporation (1997/98), Kenya Postal Corporation (1999), University of Nairobi (1999)
 - (cc) **ICT Tender Preparation and Evaluation (1998 – 2005)**. Developed tender specifications for numerous ICT projects and evaluated the tenders for University of Nairobi, Ministry of Education, and other public and private institutions.
 - (dd) **Project Management of MIS Applications Implementation (1991 – 2005)**. Project Manager of numerous MIS implementation projects in the University of Nairobi, private firms and public institutions.
 - (ee) **Project Management of ICT Physical Infrastructure Implementation (1998 – 2005)**. Project Manager in many local area network and wide area network infrastructure projects in the University of Nairobi and other public and private institutions.

- (ff) **Training.** Provided training to numerous institutions and target groups on corporate governance, project management, management information systems, database management, computer networks, ICT skills, etc.
- (gg) **Magadi Soda Ltd (1999).** Studied sources of telecommunication problems, carried out a cost-benefit analysis to determine project funding and prepared specifications for a new digital microwave radio system between Magadi and Nairobi.

5.7 Strategic Planning Consultancy

1. **University of Nairobi (2018).** Chair of the Committee that developed the next five year plan for the University of Nairobi (2018 – 2023).
2. **KRA (2018).** Consultant to develop the third corporate ICT strategy for next three years.
3. **JamboPay Ltd (2018).** Consultant to carry out review of the JamboPay 5-year strategic plan after first year of implementation and make recommendations for the next four years
4. **Kenya Tea Packers Limited (KETEPA, 2017).** Consultant to carry out mid-term review of the KETEPA 5-year strategic plan and make recommendations for the next last two years
5. **University of Nairobi (2016).** Chairman of a Taskforce that developed the University's ICT Master plan for the next ten (10) years.
6. **University of Nairobi (2016).** Led a Task Force that reviewed the 2013-2018 strategic plan and developed the University strategy for the remainder of the term, 2016-2018. I presented the strategic plan to Senate, UMB and Council.
7. **Kenya Education Network (KENET, 2016).** Supervised the development of a five year strategic plan, the development of an annual work plan and the development of the CEO performance contract.
8. **Konza Technopolis (2016).** Sole consultant to develop the 5-year strategic plan for Konza Technopolis, an innovation area with smart city to be established in Konza, Kenya. I presented the strategic plan to Management and Board of Directors.
9. **Kabarak University (2016).** Developed the 5 year strategic plan and the annual work plans for Schools and both academic and administrative departments. I also developed the performance contracts for the Top Leadership Team members, Deans and Directors and aligned the budget to the corporate strategy. I presented the strategic plan to the University Management and Council.
10. **JamboPay Ltd (2016).** Led the development of the JamboPay (an e-payment private firm) strategic plan for 2016 to 2020.
11. **Deputy Vice-Chancellor - Students' Affairs Division (2015).** As an internal consultant, led a team that developed the strategic plan for Deputy Vice-Chancellor (Students' Affairs) Division, University of Nairobi.
12. **Open, distance and electronic learning, University of Nairobi (2015).** As an internal consultant, led a team that developed the strategic plan of a new Open, Distance and

- Electronic Learning Campus strategy of the University of Nairobi. I presented the strategic plan to the Senate, UMB and Council.
13. **Graduate School, University of Nairobi (2015)**. As an internal consultant, led a team that developed the strategic plan of a new Graduate School of the University of Nairobi. I presented the strategic plan to the Senate, UMB and Council.
 14. **Short-term implementation plan for University of Nairobi upto June 2016 (2015)**. Led the University Strategy Team to derive the short-term implementation plan for University of Nairobi upto June 2016 from the University Strategic Plan (2013-2018) and the Vice-Chancellor's vision/manifesto. I presented the implementation plan to the UMB.
 15. **University of Nairobi Enterprise Services (UNES) Ltd (2015)**. Led a team that reviewed the UNES strategic plan and presented it to the Board.
 16. **Kenya ICT Authority (2014)**. As an internal consultant, led a team that developed the five-year corporate strategic plan for the Kenya ICT Authority
 17. **Kenya Revenue Authority (2014)**. As a consultant, developed the five-year ICT strategic plan for the Kenya Revenue Authority.
 18. **Ministry of ICT (2013/14)**. Chairman of a Taskforce to develop a five-year National ICT Master Plan. The Master Plan was presented to the ICT Authority Board, Ministry of ICT senior management, CEOs of state corporations under the Ministry of ICT and to about 300 stakeholders.
 19. **School of Law (2014)**. Developed a strategic plan for the University of Nairobi School of Law.
 20. **Kenya Medical Research Institute (KEMRI, 2013)**. Reviewed and developed a five year corporate strategic plan for KEMRI.
 21. **Communications Commission of Kenya (2012)**. Lead Consultant in developing the National Broadband (high speed connectivity) Strategy for Kenya for the next medium term plan (MTP) of Vision 2030 (2013-2017). This included an implementation plan for the next five years and a description of the flagship projects
 22. **Judiciary (2012)**. Lead Consultant in facilitation and development of the Judiciary Transformation Framework and the Judiciary Strategic Plan for 2012-2016.
 23. **Judiciary (2012)**. Lead Consultant in the development of the Judiciary ICT strategic plan for 2012-2016.
 24. **Ministry of Home Affairs, Tanzania (2010/2011)**. Consultant to review the existing information systems strategic plan and develop a new ICT strategic plan for the Ministry. This is one of the largest Ministries in Tanzania and includes, among others, the Police Force, Prisons Services, Refugee Services, Immigration Services, Probation and Community Services and Fire and Rescue Services.
 25. **Privatization Commission, Government of Kenya (2008)**. Facilitator to develop the strategic plan and the initial privatization programme for a new Privatization Commission in Kenya.
 26. **Directorate of e-Government, Office of the President, Kenya (2008)**. Project Team Leader in evaluating the implementation of the existing national e-Government strategy and developing the next 5-year national e-Government strategy.

27. **Railway Training Institute (RTI), Kenya Railways Corporation (2008)**. Facilitator to develop the strategic plan for the Railway Training Institute.
28. **Business Registrations and Licensing Agency (BRELA) Tanzania (2008)**. Facilitator in developing the strategic plan for BRELA as part of modernizing BRELA's registries.
29. **Njala University, Sierra Leone (2005)**. Facilitated Njala University in the development of its strategic plan for five years.
30. **International Commission of Jurists, ICJ (2005)**. Facilitated the developed of the strategic plan for ICJ (Kenya) and produced the final strategic plan.
31. **Directorate of e-Government and City Council of Nairobi (2010)**. Team leader to develop an electronic payment strategy that will guide the upgrading of current systems, and that will be aligned with the City Council of Nairobi (CCN) business strategy. The consultancy assignment involves developing a situational analysis report, an electronic payments strategy, and Technical specifications for an electronic payments system.
32. **University of Nairobi (2007)**. One of the key resource persons in reviewing the 2005-2010 corporate strategic plan and developing the next corporate strategic plan for the university.
33. **University of Nairobi (2005)**. Led a Task Force to develop the strategic plan of the University of Nairobi, 2005-2010.
34. **Railway Training Institute (2009)**. Facilitator to review the strategic plan for Railway Training Institute and align it to Kenya Vision 2030.
35. **Moi University (2004)**. Key facilitator in developing a strategic plan for the University.
36. **Research Grants Cycle Management, University of Nairobi (2012)**. Facilitated strategic planning for research grants cycle management in the University of Nairobi and developed the strategic plan.
37. **Financial Grants Administration, University of Nairobi (2011)**. Facilitated strategic planning for financial grants administration in the University of Nairobi and developed the strategic plan.
38. **College of Agriculture and Veterinary Services, University of Nairobi (2011)**. Facilitated a strategic planning workshop and reviewed the strategic plan of the College of Agriculture and Veterinary Services, University of Nairobi.
39. **Kenya Education Network, KENET (2011)**. Facilitated the review of KENET's 2006/2010 strategic plan and developed KENET's 2011/2015 strategic plan.
40. **School of Computing and Informatics, University of Nairobi (2011)**. Facilitated the development of a three year research strategy for the School of Computing and Informatics and the creation of a multi-disciplinary research Centre of Excellence in Computing.
41. **Crater Lake Resort (2010)**. Facilitator to develop the strategic plan for Crater Lake Resort.
42. **School of Journalism and Mass Communication, University of Nairobi (2010)**. Facilitator in a stakeholder workshop to develop a Centre of Excellence in Communication and Media and helped the School to develop the Centre concept and strategy.

43. **Chemusian Farm (2010)**. Facilitator to develop the strategic plan for Chemusian Farm Limited.
44. **Kenya Bixa Limited (2010)**. Facilitator to develop the strategic plan for Kenya Bixa Limited.
45. **South Eastern University College (2009/2010)**. Facilitator to develop the strategic plan for South Eastern University College (SEUCO).
46. **African Diatomite Industries Limited, ADIL (2009)**. Facilitator to develop the strategic plan for ADIL.
47. **Kenyaweb.com Ltd (2009)**. Facilitator to develop the strategic plan for Kenyaweb.com Ltd.
48. **Netcom Information Systems Ltd (2009)**. Facilitator to develop the strategic plan for NETCOM.
49. **Merica Group of Hotels (2009)**. Facilitator to develop the strategic plan of the Merica Group of Hotels. These include Merica Hotel, Maasai Ostrich Farm and Resort and Crater Lake Resort.
50. **Sovereign Group Limited (2009)**. Facilitator to develop the strategic plan for Sovereign group of companies, a holding investment company.
51. **Tierra Ltd (2008)**. Facilitator to develop the strategic plan for Tierra Limited, a private investment company.
52. **Kamahuha Limited (2008)**. Facilitator to develop the strategic plan for Kamahuha Limited, one of the largest private beverages distributor in Kenya.
53. **Kenya School of Professional Studies, KSPS (2007)**. One of two facilitators in developing a strategic plan for KSPS to convert into a private university.
54. **EKM & Company Advocates (2007)**. Facilitator in developing a corporate strategic plan for EKM.
55. **Computers for Schools Kenya, CFSK (2007)**. Facilitator in developing a corporate strategic planning for CFSK.
56. **Kenya Institute of Management (KIM) (2006)**. Facilitator in a leadership retreat to develop a new strategic direction and thrust in leadership and management development in the next thirty (30) years in Africa and beyond.
57. **Kenya Squash Racquets Association, KSRA (2006)**. Voluntary facilitator in developing the strategic planning for KSRA.
58. **Moi Girls High School, Eldoret (2006)**. Voluntary facilitator in developing the strategic planning for the school.
59. **Kenya Education Network, KENET (2006)**. Facilitator in developing a corporate strategic plan.
60. **Kenya Wildlife Services (2005)**. Led a devolution debate of KWS functions and facilitated the development of the strategic plan of one of the devolved areas of KWS, Northern Conservation Area.
61. **UNITID, University of Nairobi (2005)**. Facilitated the development of the strategic plan for University of Nairobi Institute of Tropical and Infectious Diseases (UNITID), College of Health Sciences, University of Nairobi.
62. **Faculty of Veterinary Sciences, University of Nairobi (2005)**. One of the key resource persons in developing the Faculty strategic plan.

63. **Kenya Agricultural Research Institute (2003)**. Sole consultant in development of ICT strategic plan for KARI and produced the draft strategic plan.
64. **Faculty of Agriculture, University of Nairobi (2003)**. One of the key resource persons in developing the Faculty strategic plan.
65. **Faculty of Law, University of Nairobi (2003)**. One of the key resource persons in developing the Faculty strategic plan.
66. **ICT Centre, University of Nairobi (2002)**. Facilitator in developing the ICT strategic plan for the University.
67. **Kabarak University (2000/2001)**. A key resource person in developing the strategic plan for the University and produced the draft strategic plan.
68. **University of Nairobi (1999)**. One of the key resource persons in developing the first University of Nairobi strategic plans.

6. Publications, Conferences and Workshops

6.1 Recent Publications

6.1.1 Selected Refereed Journal Papers

1. Foster, C., and Graham, M., Mann, L., **Waema, T.** and Friederici, N. (2018). *Who controls the digital? Value chains and the challenges of connectivity for East African firms, Economic Geography*, 94(1), 68-86, DOI: 10.1080/00130095.2017.1350104.
2. Mwangi, H., Williams, D., **Waema, T &** Nganga, Z. (2016). Leveraging HIV advancement in the light of Tuberculosis and Malaria using System Dynamics. *Advances in Computer System*, Vol. 5, pp. 47-54.
3. Mutunga, I.M. and Waema, T.M. (2016). Context of mobile phone use and its effects on smallholder farmer's livelihood outcomes in Kenya. *International Journal of Scientific Research and Innovative Technology*, 3(4), 121-136, ISSN: 2313-3759.
4. Mulwa, M.M. & **Waema, T.M.** (2016). Understanding Mobile Banking from a Theoretical Lens: Case Studies of Selected Kenyan m-Banking Products. *International Journal of Innovation in the Digital Economy (IJIDE)*, 7(1), 54-68. doi:10.4018/IJIDE.2016010105
5. Mulwa, M.M. and **Waema, T.M.** (2015). Understanding mobile banking from a theoretical lens: Case studies of selected Kenyan m-banking products, *International Journal of Management & Information Technology*, 10(8), pp. 2434-2444.
6. Barasa, B., Kakembo, V., **Mwololo Waema, T.** and Laban, M. (2015). Effects of heterogeneous land use/cover types on river channel morphology in the Solo River catchment, Eastern Uganda, *Geocarto International Journal*.
7. Mwangi, H., Williams, D., **Waema, T.** & Nganga, Z. (2015), 'Using system dynamics to understand the role of cofactors TB and malaria in the progression of HIV', *International Journal of System Dynamics*.
8. **Waema, T.M.** (2015). ICT4D and Global Connectivity. *The International Encyclopedia of Digital Communication and Society*, John Wiley & Sons, Inc., pp. 1-4.
9. Omwansa, T.K., Lule, I. and **Waema, T.** (2015). The Influence of Trust and Risk in

- Behavioural Intention to Adopt Mobile Financial Services among the Poor. *International Arab Journal of e-Technology (IAJeT)*, 4(1), January 2015, pp. 8-16.
10. Omwansa, T.K., **Waema, T.M.**, Chen, C and Sullivan, N.P. (2013). The Mobile Phone as the Tool to Redefine Savings for the Poor: Evidence from Kenya, *African Journal of Science, Technology and Innovation*, 5(4), pp. 1-7.
 11. Jecton Anyango Tocho, **Timothy Mwololo Waema**, (2013) "Towards an e-waste management framework in Kenya", *info*, Vol. 15 Iss: 5, pp.99 – 113.
 12. Lule, Isaiah; Omwansa, Tonny Kerage and **Prof. Waema, Timothy Mwololo** (2012). Application of Technology Acceptance Model (TAM) in M-Banking Adoption in Kenya. *International Journal of Computing and ICT Research*, Vol. 6 Issue 1, pp 31-43.
 13. Margaret N. Ndung'u, **Timothy M. Waema**, Winnie V. Mitullah, (2012) "Factors influencing usage of new technologies in low-income households in Kenya: The case of Nairobi", *info*, Vol. 14 Iss: 4
 14. Ochieng, D.O., **Waema, T.M.** and Onsomu, J.O. (2012) 'Mobile Interfaced Crops Diagnosis Expert System (MICDES): a case for rural Kenyan farmers', *Int. J. Services, Economics and Management*, Vol. 4, No. 1, pp.4–26.
 15. **Waema, T.M.** and Okinda, O. (2011). Policy Implications of the Relationship Between ICT Access and Usage and Well-being: A Case Study of Kenya, *African Journal of Science, Technology, Innovation and Development (AJSTID)*, 3(3), 30-56.
 16. Ndung'u, M.N. and **Waema, T.M.** (2011). Development Outcomes of Internet and Mobile Phones Use in Kenya: The Households' Perspectives, *Info*, 13(3), 110 – 124.
 17. Wausi, A.N. and **Waema, T.M.** (2010). Implementing IS in developing country context: towards creating a favourable implementation context, *International Journal of Computing and ICT Research (IJCIR)*, 4(2), 12-26.
 18. Kizza, J.M., Muchie, M. and **Waema, T.** (2010). Reaching out: Efforts to build sustainable African research and innovation capacity. *African Journal of Science, Technology, Innovation and Development (AJSTID)*, 2(2), 215-229.
 19. Dunckley, L., Camara, S.B., Abdelnour Nocera, J, and **Waema, T.M.** (2009). [Socio-Technical Issues of Participatory Design in the Developing World](#), *International Journal of Sociotechnology and Knowledge Development, (IJSKD)*, 1(3), 1-14.
 20. **Waema, T.M.** and Mwamburi, C.M. (2009). Ex Ante Evaluation of Information and Communication Technology Projects; Case Studies of Kenyan Universities, *International Journal of Computing and ICT Research (IJCIR)*, 3 (1), 65-76.
 21. **Waema, T.M.**, Mitullah, W. and Adera, E. (2009). Research in African e-Local Governance: Outcome Assessment Research Framework, *African Journal of Science, Technology, Innovation and Development (AJSTID)*, 1(1), 227-256.
 22. **Waema, T.M.** (2009). E-local governance: a case study of financial management system implementation in two municipal councils in Kenya, *International Journal on Electronic Governance*, 2 (1), 55-73.

6.1.2 Selected Books and Book Chapters

1. Adera, E.O., Waema, T.M., May, J., Mascarenhas, O., and Diga, K. (2014) *ICT Pathways to Poverty Reduction: Empirical Evidence from East and Southern Africa*, Rugby, UK: Practical

- Action Publishing, <http://www.idrc.ca/EN/Resources/Publications/openebooks/539-7/index.html>
2. Waema, T.M., & Miroro, O.O. (2014). Access and use of ICT and its contribution to poverty reduction in Kenya in *ICT Pathways to Poverty Reduction: Empirical Evidence from East and Southern Africa*, 101.
 3. Agüero, A., Barrantes, R., & Waema, T.M. (2014). Livelihood and ICTs in East Africa in *ICT Pathways to Poverty Reduction*, 77.
 4. Omwansa, T.K., & Waema, T.M. (2014). Deepening financial inclusion through collaboration to create innovative and appropriate financial products for the poor.
 5. Omwenga, B., Waema, T. M., & Omwansa, T. K. (2014). Cloud Computing in Kenya A 2013 Baseline Survey.
 6. Waema, T., & Katua, C. (2014). The Promises of Fibre--Optic Broadband in Tourism and Tea Sectors: A Pipeline for Economic Development in East Africa.
 7. Kashorda, M., & Waema, T. (2011). ICT indicators in higher education: Towards an e-readiness assessment model. Proceedings and report of the 4th UbuntuNet Alliance annual conference, (pages 57-76).
 8. **Waema, T.M.** and Adera, E.O. (Editors), (2011) *Local governance and ICTs in Africa: Case studies and guidelines for implementation and evaluation*, Pambazuka Press, ISBN 978-0-85749-032-2, <http://idl-bnc.idrc.ca/dspace/bitstream/10625/45946/1/132418.pdf>
 9. Adera, E.O. and **Waema, T.M.** (2011), Introduction. In **Waema, T.M.** and Adera, E.O. (Editors), *Local governance and ICTs in Africa: Case studies and guidelines for implementation and evaluation*, Pambazuka Press, ISBN 978-0-85749-032-2, 1-24.
 10. **Waema, T.M.** (2011), E-governance assessment framework. In **Waema, T.M.** and Adera, E.O. (Editors), *Local governance and ICTs in Africa: Case studies and guidelines for implementation and evaluation*, Pambazuka Press, ISBN 978-0-85749-032-2, 25-48.
 11. Mitullah, W. and **Waema, T.M.** (2011), *ICTs and financial management in Mavoko and Nyeri municipal councils, Kenya*. In **Waema, T.M.** and Adera, E.O. (Editors), *Local governance and ICTs in Africa: Case studies and guidelines for implementation and evaluation*, Pambazuka Press, ISBN 978-0-85749-032-2, 105-140.
 12. **Waema, T.M.** (2011), *Summary of findings and e-local governance roadmap*. In **Waema, T.M.** and Adera, E.O. (Editors), *Local governance and ICTs in Africa: Case studies and guidelines for implementation and evaluation*, Pambazuka Press, ISBN 978-0-85749-032-2, 280-313.
 13. **Waema, T.M.** (2008), *The Development of National ICT Policy in Kenya; The Influence of Regional Institutions and Key Stakeholders*. In Mahesh Raisinghani (Editor), *Handbook of Research on Global Information Technology Management in the Digital Economy*, Information Science Reference (an imprint of IGI Global), ISBN 978-159904875-8, pp. 38-56.
 14. **Waema, T.M.** (2007), *A Conceptual Framework for Assessing the Effects of E-government on Governance*. In Proceedings of the 1st International Conference in Computer Science and ICT, COSCIT 2007, Nairobi, Kenya, 5th – 7th February, 2007, ISBN: 9966-7284-0-6, pp. 98-103.
 15. **Waema, T.M.** and Bowman-Ngaruiya, W. (2006), *The Institutional Structures and Models for Implementing the Kenyan National ICT Plan*. In Outa et. al (Editor), *Mainstreaming ICT:*

Research Perspectives from Kenya, Mvule Africa Publishers, ISBN 9966-769-56-0, pp. 25-72.

16. **Waema, T.M.** (2006), *SME e-access and usage in Kenya*. In Christopher Stork and Steve Esselaar (Editors): *Towards an African e-Index: SME e-access and usage across 14 African countries*, researchICTafrica.net, ISBN: 10-0-620-37593-0, available in http://www.researchictafrica.net/images/upload/SME_book-Web.pdf

6.1.3 Selected Refereed Conference Papers

1. Michaelina Almaz YOHANNIS, **Timothy M. WAEMA**, Margaret HUTCHINSON Agnes WAUSI (2017). Linking Climate Information to Livelihood Strategies through ICTs: the Role of Integrated Sustainable Livelihoods Framework, *ST-Africa 2017 Conference Proceedings* Paul Cunningham and Miriam Cunningham (Eds) IIMC International Information Management Corporation, 2017 ISBN: 978-1-905824-56-4
2. Otieno, I., Omwenga, E. and **Waema, T.** (2016) in Paul Cunningham and Miriam Cunningham (Eds). *The e-Government Paradox: Is it Real and How can it be Resolved?*, *IST-Africa 2016 Conference Proceedings*, IIMC International Information Management Corporation, 2016 ISBN: 978-1-905824-54-0.
3. Michaelina ALMAZ YOHANNIS, **Timothy M. WAEMA** and Agnes N. WAUSI (2016) in Paul Cunningham and Miriam Cunningham (Eds). *Provisional Findings on Linking Climate Information to Livelihood Strategies through ICTs among Rural Women in Kitui County, Kenya*, *IST-Africa 2016 Conference Proceedings*, IIMC International Information Management Corporation, 2016 ISBN: 978-1-905824-54-0.
4. Mwangi H. N., Williams D. W., **Waema T.** and Ng'ang'a Z. (2016), Immune System Dynamics model under attack by HIV, Malaria and Tuberculosis and its response: Second Annual International Conference and Workshop in System Dynamics; Jan 2016 Kenya School of Monetary Studies, System Dynamics Africa Chapter.
5. Mwangi H. N., Williams D. W., **Waema T.** and Ng'ang'a Z. (2015), Leveraging HIV advancement in the light of Tuberculosis and Malaria: A novel Approach. First Annual International Conference and Workshop in System Dynamics; Jan 2015 Kenya School of Monetary Studies, System Dynamics Africa Chapter.
6. Omwansa, T. K., & **Waema, T.M.** (2014). Deepening financial inclusion through collaboration to create innovative and appropriate financial products for the poor. KBA Centre for Research on Financial Markets and Policy Working Paper Series
7. Mwangi H. N., Williams D. W., **Waema T.** and Ng'ang'a Z. (2014), Understanding the dynamics of HIV progression in the light of Opportunistic Infections Tuberculosis and Malaria: A Novel Approach, Conference Proceedings, The Delft, the Netherlands Conference, November 19, 2014.
8. Henry Njogo Mwangi, Williams Ddembe, **Timothy Waema** and Ng'ang'a Zipporah (2014). Modelling the Trio Infection of HIV, Malaria and TB: A System Dynamics Approach, Proceedings of the 32nd System Dynamics International Conference
9. Mwangi H. N., Williams D. W., **Waema T.** and Ng'ang'a Z. (2014), Modelling of Triad infection of HIV/AIDS, Tuberculosis and Malaria: A system Dynamics Approach.

- Proceedings of the 31st International Conference of System Dynamics, July 2014 Technical University Delft, Netherlands. System Dynamics Society.
10. Omwansa, Tonny and Crandall, Angela H. and **Waema, Timothy Mwololo** (2013), The Gap between Mobile Application Developers and Poor Consumers: Lessons from Kenya (September 7, 2013). Proceedings of the CPRsouth8/CPRafrica 2013 Conference. Available at SSRN: <http://ssrn.com/abstract=2364263>
 11. **Waema, Timothy Mwololo** and Katua, Charles (2013), The Impacts of Broadband Internet and Related Technologies on the Value Chain of the Tourism Sector in Kenya. Proceedings of the CPRsouth8/CPRafrica2013 conference. Available at SSRN: <http://ssrn.com/abstract=2363896>
 12. Ndung'u , Margaret Nyambura and **Waema , Timothy Mwololo** (2013), Mobile Internet as the Key Driver to Internet Growth in Kenya: Factors Underpinning and Exploited Opportunities. . Proceedings of the CPRsouth8/CPRafrica2013 conference. Available at SSRN: <http://ssrn.com/abstract=2363824> or <http://dx.doi.org/10.2139/ssrn.2363824>
 13. Meoli Kashorda and **Timothy Mwololo Waema** (2011). ICT Indicators in Higher Education: Towards an E-readiness Assessment model. Proceedings and reports of the 4th UbuntuNet Alliance annual Conference, 2011, ISSN 2223-7062, pp 57-76. <http://www.ubuntunet.net/sites/ubuntunet.net/files/kashorda&timothy.pdf>
 14. **Waema, T.M.** and Musyoka, J.M. (2009). Shifting shores: investigating how the shift from electronic to mobile government interacts with the development practice in Kenya. Proceedings of the 3rd International Conference on Theory and Practice of Electronic Governance, Bogota, Columbia, November 10-13, 2009. *ACM International Conference Proceedings Series*, 322 ACM 2009, ISBN 978-1-60558-663-2, pp 191-197.
 15. **Waema, T.M.** (2009). e-Governance Evaluation: Towards an Integrated Outcome Evaluation Research Framework, in *Proceedings of the LOG-IN Africa e-Local Governance 1st Conference, June 5-6 2008, Cairo, Egypt*, ISBN 978-9981-1-1062-0, pp. 1-13, Editions Marocaine et Internationale (EMI), Tangier, Morocco.
 16. **Waema, T.M.** and Mitullah, W. (2009). e-Governance in Local Authorities in Kenya: Policy and Institutional Elements of Implementation, in *Proceedings of the LOG-IN Africa e-Local Governance 1st Conference, June 5-6 2008, Cairo, Egypt*, ISBN 978-9981-1-1062-0, pp. 67-78, Editions Marocaine et Internationale (EMI), Tangier, Morocco
 17. Camara, S., Abdelnour-Nocera J., Luckin, R., **Waema, T.** (2008), Bridging the global digital divide with participatory customisation. In: Ess, C. and Sudweeks, F., (Eds.) *Proceedings of the Fifth Conference on Cultural Attitudes towards Technology and Communication (CATAC)*, 28 June-1 July 2008, Nimes, France.
 18. Abdelnour-Nocera J., Luckin, R., **Waema, T.** Culture as a bottom up concept to understand diversity in systems production and use. In: Ess, C. and Sudweeks, F., (Eds.) *Proceedings of the Fifth Conference on Cultural Attitudes towards Technology and Communication (CATAC)*, 28 June-1 July 2008, Nimes, France.
 19. Mureithi, M., **Waema, T.**, Wanjira, A. Finlay, A. and Schlupe, M. (2008). E-waste in Kenya: Baseline Assessment. *Proceedings of the 19th Waste Management Conference on the IWMSA (WasteCon2008)*, Durban, South Africa, pp 502-509, ISBN Number: 978-0-620-40434-1.

20. Camara, S.B., Dunckley, L., Abdelnour-Nocera, J. and **Waema, T.M.** (2008) Cross-Cultural Participatory Design in the Developing World. *Proceedings of the SIGCHI conference on Human factors in computing systems*, Florence, IT, 5-10 Apr 2008.
21. Walker, K., J. Underwood, **T.M. Waema**, L. Dunckley, J. Abdelnour-Nocera, R. Luckin, C. Oyugi and S. Camara. [A resource kit for participatory socio-technical design in rural Kenya](#) . *Proceedings of the SIGCHI conference on Human factors in computing systems*, Florence, IT, 5-10 Apr 2008.
22. **Waema, T.M.** and Mitullah, W. (2007), *E-governance and governance: A case study of the assessment of the effects of integrated financial management system on good governance in two municipal councils in Kenya*. In [Tomasz Janowski](#), [Theresa A. Pardo](#) (Eds.): *Proceedings of the 1st International Conference on Theory and Practice of Electronic Governance, ICEGOV 2007*, Macao, China, December 10-13, 2007. [ACM International Conference Proceeding Series](#) 232 ACM 2007, ISBN 978-1-59593-822-0, pp. 263-268.

6.1.4 Selected Papers Presented in Conferences and Workshops

1. Organized a very successful training workshop for researchers interested or carrying out research in mobile money. The workshop was held at the Kenya School of Monetary Studies, Nairobi on 1st April, 2012
2. Organized a very successful international conference on mobile money and financial inclusion in Nairobi and was one of the keynote speakers. The conference was held at the Kenya School of Monetary Studies, Nairobi on 2nd and 3rd April, 2012.
3. Participated in research writing workshop and wrote a research report on performance of the Kenya ICT sector, held in Somerset West, The Western Cape, South Africa from 26th to 30th March, 2012.
4. Made a presentation in Universidad 2012 International Congress on *KENET as an example of a national research and education network (NREN)*, held in Havan, Cuba in February 2012.
5. Presented a paper in the UbuntuNet Connect 2011 Conference held at the Safari Park Hotel from 24th and 25th November, 2011.
6. Attended EXPERT GROUP MEETING on Science, Technology and Innovation Policy Report on Africa organized by the United Nations Economic Commission for Africa held in Addis Ababa, Ethiopia from 17th and 19th October 2011.
7. Attended a Research Methodology Workshop organized by UNESCO IIEP on the design and management of higher education systems: Role of steering policies and governance structures held in Addis Ababa, Ethiopia on 18th and 19th October 2011.
8. Launched a book I edited with the theme "Effective e-governance delivery through ICTs". The name of the book is: **Waema, T.M.** and Adera, E.O. (Editors), *Local governance and ICTs in Africa: Case studies and guidelines for implementation and evaluation*, Pambazuka Press, ISBN 978-0-85749-032-2. The book was launched in the annual E-governance Africa Forum organized by Commonwealth Telecommunications Organization (CTO) held in Yaounde, Cameroon from 26th to 28th April 2011.

9. Organized in association with Research ICT Africa the “CPRafrica2011 Conference: Building ICT research capacity for Africa”. This was an international conference held at the Fairview Hotel, Nairobi on 17th and 19th April 2011.
10. Organized, in association with Research ICT Africa, the “CPRafrica2011: Young Scholars Seminar” – a forum for training of PhD and Masters students from several African countries held at the Fairview Hotel, Nairobi on 15th and 16th April 2011.
11. Wrote and presented the Kenyan research report on ICT and poverty in a three-day workshop of the “Poverty, ICTs in Urban and Rural East Africa” (PICTURE-Africa) project. The workshop was held at the Whitesands Beach Hotel, Dar-es-salaam from 8th to 10th December 2010.
12. Organized a successful research training workshop for ICT4D African researchers from 21st to 28th March, 2010 in Nairobi, Kenya. This is a training workshop covered Research Methodology, including Statistical Analysis; Scientific Writing; and Research Grant Writing.
13. Organized and facilitated a half day workshop to present a policy brief (written by myself) that shared the findings of a three-year research on ICT and poverty and its policy implications. This study was part of a larger East African project entitled “Poverty, ICTs in Urban and Rural East Africa” (PICTURE-Africa) and the PS/Ministry of Planning, National Development and Vision 2030 was the guest of honour. The workshop was held at the Jacaranda Hotel, Nairobi on December 2, 2010.
14. Facilitated the launch of the Research ICT Africa Kenya ICT Sector Performance Review Report (written by myself) in a breakfast workshop. The guest of honour was the PS/Ministry of Information and Communications. The launch was held at the Jacaranda Hotel, Nairobi on November 16, 2010.
15. Attended and made a presentation in KENET’s Vice-Chancellors’ Forum on the role of ICTs in Universities. This meeting was attended by over 25 VCs and University College Principals. It was held in Serena Beach and Spar Resort, Mombasa from 3rd to 7th November, 2010.
16. Attended a workshop to review performance and plan the next three-year research agenda for a pan-African research network, Research ICT Africa (RIA) held in Johannesburg, South Africa from 4th to 7th October 2010.
17. Provided training to researchers from 5 East African countries on e-readiness in universities. This was a two-day workshop held in Safaripark Hotel, Nairobi on 10th and 11th June 2010.
18. Organized a national workshop of stakeholders in July 2009 to discuss the results and policy implications of the BPO study entitled ‘Development of a Business Process Outsourcing Industry in Kenya: Critical Success Factors’. I was the Team Leader of the research project and I made one of the key presentations. University of Nairobi was highly featured.
19. Presented the policy brief of the research project entitled ‘Development of a Business Process Outsourcing Industry in Kenya: Critical Success Factors’ to policy makers in September, 2009.
20. Attended the East African Internet Governance Forum (EAIGF) held in Nairobi in September, 2009.

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21. Organized a very successful international conference on e-local governance in Cairo, Egypt on 5th and 6th June 2008 and made several paper presentations.
22. Orwa, D.O. and Waema, T.M. (2009). Presented in CHI2009 Conference in Boston USA 2009, http://www.ics.uci.edu/~nsambasi/hcc4id/Final_Orwa.pdf
23. **Waema, T.M.** (2007), *2007 Kenya Telecommunications Sector Performance Review: A Supply Side Analysis of Policy Outcomes*. In Research ICT Africa! SPR 2007 Country Reports, available in http://www.researchictafrica.net/images/upload/KenyaSPR_WEB.pdf

I CERTIFY THAT ALL INFORMATION STATED IN THIS RESUME IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. I AUTHORIZE THE CONCERNED PARTY TO VERIFY THE INFORMATION PROVIDED IN THIS RESUME

Timothy M. Waema