

Peter Maina Njuguna

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Career Goal

To provide leadership in designing scalable technology supported innovative strategies and solutions (ICT4D/Digital Development) in areas of child protection (particularly Civil Registration and Vital Statistics), community development and humanitarian work.

Profile Brief

Master of Science in ICT for Development (MSc ICT4D)

(Dissertation Title; *Principles for Digital Development: A case study evaluation of integration in design and implementation of technology-enabled projects by development organisations in Kenya*)

Master of Arts in International Development (MA ID) ongoing

Bachelor of Education (B.Ed. Arts), Economics Major

Certified Project Management for Development Professionals (PMD Pro) - Level 1 examination

Several professional certifications in Information Communication Technology (ICT)

Human-Centred Design course

Communication for Development (C4D) course

Child Centred Community Development (CCCD) course

Communication for Behavioural Impact (COMBI) methodology course

On behalf of Civil Registration Services, conducted a technical assessment, focusing on how digital technology can be used to strengthen Civil Registration and Vital Statistics (CRVS) processes in

Kenya to address registration barriers. The technical assessment study was part of Kenya's Government wider comprehensive assessment (conducted by UNICEF) commissioned by African Program on the Accelerated Improvement of Civil Registration and Vital Statistics (APAI – CRVS). As my brain child, led and coordinated entire development cycle and deployment (hands-on) of an innovative mobile application, with Government Department of Children Services, for child abuse reporting, tracking and case management. Currently the application is rolled out in two counties (Kilifi and Kwale) and won 2016 African Association of Public Administration and Management Innovative Management Award and the Oracle 2017 ICT Innovation Awards http://www.the-star.co.ke/news/2014/08/20/be-warned-you-cant-touch-me-anymore_c989557

Part of Kenya team in development work of toolkits for Principles for Digital Development (PDD) coordinated by Digital Impact Alliance (DIAL) for organizations to better realize the benefits of incorporating the PDD into their work

Over four years' experience in managing a Birth Registration project involving various interventions (MCH, Technology, Registration drives/mop-up, among others) to increase birth registration in partnership with government of Kenya Civil Registration Services in Kwale and Kilifi counties

Member of Civil Registration Services 2013 – 2017 Strategic Plan writing core team representing Plan International Kenya

Currently, in collaboration with Kenya Civil Registration Services, leading development of a mobile application for vital events (birth & death) registration as part of digitization at CRS to be used by community based agents (Chiefs and Assistant Chiefs) – digitization of the process of notification of vital events occurring at home

Member of the ICT Technical Working Group (TWG) that coordinated the development of National Child Protection Management Information System (CPMIS) under the State Department of Social Protection, Children Services.

Working with University of Nairobi led development and deployment of a mobile application for real time data collection by field workers. It is currently in use by several INGOs. <http://www.paimapper.com/mobile-data-collection/>

Part of team that did assessment and planning for psychosocial support to children in Tana Delta during emergency

A UNICEF ESARO pre-screened rostered expert in Civil Registration & Vital Statistics, ICT for Development and Child Protection Systems

Conferences and Workshops

- NetHope Global Summit (to be held in November 2018), Dublin; **Speaker** – “*Evaluating Digital Impact Using the Principles for Digital Development - Reflection: The Principles in Practice*”
- 10th ICT4D Conference (2018), Lusaka; **Speaker** – “*Dynamics of adhering to Principles for Digital Development in Technology-enabled interventions*”
- NetHope Global Summit (2017), Vancouver; **Panelist** – “*Beyond Scale*”
- NetHope Africa Chapter Meeting (2017), Nairobi: **Speaker** – “*ICT4D in Plan International*”
- SANGONeT ICT4 Rural Development (ICT4RD) conference (2011), Johannesburg: **Participant** - “*Rural Realities, Real Solutions*”
- World Bank “Brown Bag Lunch” Session (2010), Washington DC: **Presenter** – “*The use of mobile Geo-mapping in Kenya by Plan International to monitor development programs*”

Work Experience and Achievements

Digital Birth Registration (DBR) Advisor - Plan International Kenya (1st June 2014 to Present)

Managing a project, whose interventions are geared towards increasing the number of children registered and certified within six months after birth (both home and health facility births). My core roles are;

- Leading, overseeing and coordinating the process of enhancing the Civil Registration and Vital Statics System (CRVSS) through digitizing the process of vital events notification occurring in health facility and homes. This entails writing technical and functional requirements, designing, developing and deploying a mobile application that interface with CRVSS to digitally notify vital events (birth and death).
- Aligning leveraging digitization efforts to the ongoing digitization efforts at Civil Registration Services particularly digitization of historical data among others
- Leading and coordinating the designing and implementation of a strategic communication plan using Communication for Behavioural Impact (COMBI)

methodology, to create demand for registration and certification of events of birth by targeting specific strategic behaviour change.

- Support development of advocacy strategy guidelines, to support legal and policy changes necessary to deal with emerging challenges in Birth Registration, including surrogate mothers, diversification of registration agents, digitization of events of birth notification process (as part of government digital services) to ensure it is anchored on law among others. This piece of work is anchored on legal review part of technical assessment I conducted, on behalf of Civil Registration Services as part of Kenya's Government comprehensive assessment commissioned by African Program on the Accelerated Improvement of Civil Registration and Vital Statistics (APAI – CRVS). The study focused on how digital technology can be used to strengthen Civil Registration and Vital Statistics (CRVS) processes in Kenya to address registration barriers.
- Ensuring rollout, as well as strengthening, of Maternal Child Health (MCH) strategy to increase use of immunization health points to increase timely registration of birth (including death) events leveraging on relatively high immunization rate in Kenya.
- Coordinate planning and implementation of mop-up activities through local existing structures particularly schools for mobilisation, registration and certification, in sub-counties that have low registration rates.
- Developing change management and deployment strategy for digitized Birth Registration/notification by community agents business model

Achievements

- An innovative custom made Civil Registration and Vital Statistics System (CRVS) mobile interface (application) developed and lab environment tested. The application is ready for rollout for use by community level registration agents (Chefs and Assistant Chiefs) in Kenya pilot areas
- A digitization Birth Registration business model, particularly use of mobile application, change management and deployment approach development. Change management training done concurrently with development of the mobile application in both Kwale and Kilifi counties among change champions
- A strategic communication plan for Birth Registration in Kwale and Kilifi Counties using Communication for Behavioural Impact (COMBI) methodology and targeting behaviour change developed and rollout started in Kwale County. This is geared towards creating demand for registration and certification of events of birth by fathers and

mothers. The plan has two specific strategic behaviour objectives; To have 30,000 (approximately) fathers/mothers who will have a new born baby during the 12 month period January 2017 to January 2018 in Kwale County register the event within six months of the birth of the baby, leading to an increase in birth notification/registration within six months to 95%; to have 15,000 (half of 30,000) of these fathers/mothers who have registered their baby obtain a Birth Certificate for their new born baby within 12 months of birth of the baby

- Advocacy strategy for digitized Birth Registration outlining legal and policy changes required developed to support Birth Registration emerging issues
- Monitoring and evaluation strategy for both technical and non-technical interventions for Birth Registration
- Developed and continuous updating of key project documents in collaboration with Civil Registration Services. Among them include; comprehensive workplan; Birth Registration improvement risk register; project budget along donor guidelines.
- In collaboration with Civil Registration Services, carried out Maternal Child Health (MCH) strategy training for registration agents from two sub-counties in Kwale County. The objective was to strengthen the capacity of civil registration agents to be able to carry out registration of births and mobilize communities to acquire birth certificate. Training reached a total of 179 registration agents (chiefs, Assistant Chief and Health in-charges)
- Five mop-up drives to register unregistered children covering two sub-counties conducted in Kilifi, Kwale (Kinango and Matuga) and Machakos Counties which has so far registered over 18,000 children. Involving schools as mobilization points.

Birth Registration Technical Assessment Coordinator - Plan International Kenya, (1st October 2013 to 31st May 2014)

Conducted a technical assessment, focusing on how digital technology can be used to strengthen Civil Registration and Vital Statistics (CRVS) processes in Kenya to address registration barriers. The technical assessment study was part of Kenya's Government wider comprehensive assessment (conducted by UNICEF) commissioned by African Program on the Accelerated Improvement of Civil Registration and Vital Statistics (APAI – CRVS).

Achievements

- Technical Assessment of Civil Registration and Vital Statistics report with clear guidelines on Kenya's Civil Registration digitization landscape, needs and recommended opportunities in use of digital technologies
- Recommendations on Kenya's Civil Registration Services staff and registration agents capacity needs
- Participated in successful process of writing of Civil Registration Services 2013 – 2017 Strategic Plan
- Member of the core team in development of JamiiSmart, an MCH mHealth solution, modelled on existing, sustainable mobile technologies from end users under leadership of Ministry of Health Kenya

IT Coordinator - Plan International Kenya, Kilifi Program Unit (PU) (14th April 2009 to 30th September 2013)

Support development of strategies of mainstreaming use of relevant ICTs in all the development programs (ICT4D) and provide leadership in implementation of ICT4D innovative projects. Provide first line support for corporate systems, IT infrastructure security, managing IT disaster recovery, business continuity plan and risk register.

Achievements

- Started, led development and implementation of an innovation to use mobile devices based application to strengthen community level (volunteer children officer and Community Health Volunteers) child abuse reporting mechanism/structures in Kilifi County. A mobile application brand-named VuruguMapper (ViolenceMapper) has been developed under my leadership and rolled out in Kilifi County. This included requirements gathering through a demand approach to development of the rollout version. This application is being scaled in several sub-counties with an aim of rolling-out in entire country http://www.the-star.co.ke/news/2014/08/20/be-warned-you-cant-touch-me-anymore_c989557 and <https://www.youtube.com/watch?v=4z8yUyOm3bw>
- I initiated and coordinated entire process of developing a Geographic Information System (GIS) application (PoiMapper), which is now used by several INGOs for baseline data collection and project monitoring. I made a presentation on the same at World Bank, Department of Sustainable Agriculture and Rural Development,

Washington DC, USA on 11/11/2010 titled “The use of mobile geo-mapping in Kenya by Plan International to monitor development programs”. I am acknowledged for contributing to a World Bank publication. Citation: Castren, Tuukka and Madhavi Pillai. 2011. Forest Governance 2.0: A primer on ICTs and Governance. Washington DC: Program on Forest (PROFOR). A brief can be found on the following website <https://lindaraftree.com/2010/08/06/mgesa-mobile-geographical-services-for-africa/> Plan International is using the application to do various survey and collect geo-referenced data.

- I have been involved in capacity building of Plan International staff in various countries on use of the application and other ICT4D solutions, both face to face and on webinars.
- I led establishment of community led ICT resource centre in Kilifi. The centre is accessible and benefit approximately 50 teachers from neighbouring primary schools and 20 youth who are acquiring digital skills (digital Literacy) at the centre. Through its successes, the centre has received funding inform of equipment from IT Skills 4 Rural Kenya, a UK based charity under Mtandao Viganjani ICT Initiative
- As one way of involving children in climate change effects awareness, I coordinated the development of a video documentary on Climate for Change by four girls from Malomani Primary School in Ganze which won 3rd Prize in the 13-17 years category in the World Bank Connect4Climate 2011 <https://www.connect4climate.org/initiative/connect4climate-video-2011-competition-winners>
- Successful rollout of Riverbed Steelhead technology installation for all Plan Kenya 9 offices resulting to increased internet speeds through corporate internet data acceleration and therefore internet cost cutting. Offered technical support to Tharaka PU and redesigned the entire PU IT systems
- Coordinated "GIS and Digital Data Collection Pilot" project based on ESRI platform in 17 countries where Plan International works, as the main primary technical contact person. I participated in a 4-day mid-term evaluation workshop for the pilot in Woking, UK on 12th -15th November 2012. I also participated in the 7th ESRI Eastern Africa User Conference which included an interesting pre- conference seminar on “GIS for Humanitarian Agencies”.
- As a member of a team of 17 staff representing Plan International globally, I participated in developing a manual/guide titled “ICT Enabled Development” that was adopted by all the 47 countries where Plan International works.

- On behalf of Plan International Kenya, I spearheaded a Plan International global initiative which involved developing a global online map application that enables visualization of all PU offices across all Plan countries while attaching key program effectiveness data; reports, CSPs, PULTPs, budgets information among others. The application developed by Earth-To-Map GIS, a Canadian Company, is called PU-Editor. It also includes a PU locator.
- I successfully mentored two IT interns under Plan International Kenya internship program, with both competitively getting senior positions in their career growth in IT.

ICT and Communications Officer - Baraka Agricultural College – (1st March 2006 to 27th February 2009)

Lead and coordinate development of a structured ICT infrastructure and information system in College and provide support to staff. Advise college administration on matters relating to ICT systems and initiate strategies for integrating ICTs in College programmes. Administering the College ICT system and providing frontline support to members of staff and designing ICT course content for short course participants.

Achievements

- Initiated and coordinated designing and establishment of both cabled and wireless computer network, backup and telephone system.
- I initiated and coordinated installation of Very Small aperture Terminal (VSAT) internet connection.
- Redesigned college website to include a discussion forum and an online applications interface.
- Initiated and coordinated centralization of college accounting system. Developed a proposal that was funded to support this initiative.
- I developed ICT and communication skills chapter for Diploma in Sustainable Agriculture and Rural Development National curriculum led by Kenya Institute of Curriculum Development (KICD).

GORTA Scholarship Coordinator - Baraka Agricultural College – (10th May 2004 to 24th February 2006)

To develop the scholarship implementation plan and students post-study support model.

Achievements

- Designed comprehensive scholarship guidelines and coordinated both mobilisation and scholarship beneficiary's nomination/selection through government and community structures. This led to recruitment of 56 scholarship beneficiaries from different locations within Eastern Africa
- Coordinated successful after training return/engagement of 23 beneficiaries, in their host communities within Eastern Africa

Project Officer (Volunteer/Intern) - Mbaruk Ecology Centre – (30th July 2001 to 30th April 2004)

Coordinate existing and initiate new community owned development projects for members livelihood improvement and developing partnerships with Government and development agencies.

Achievements

- Developed a successful partnership with Egerton University, Njoro, that led to carrying out a Participatory Rural Appraisal which culminated to the community developing a development action plan for Mbaruk in Gilgil sub-county
- Supported the community group to write a successful proposal and received USA Ambassadors self-help fund/KARI-ATIRI- World Bank funding and started a successful beekeeping project (production and value addition) for income generation

Awards

- 37th African Association of Public Administration and Management (AAPAM) Conference (2016), Lusaka; **Award** – “*Community Based Management Information System in Child Protection*” innovation
- Oracle ICT Innovation (2017), Diani; **Award** – “*Youth, Gender and Vulnerable Groups award*” innovation
- Winner 2011 World Bank Connect4Climate 13-17 years category video competition - 3rd Prize

Voluntary and other engagements

- Board Member, SIMLab International
<http://simlab.org/team/#board>
- Kenya Country eMentor for Kenyans students studying Communication for Development (C4D) course offered under Commonwealth of Learning
<http://www.col.org/progServ/programmes/livelihoods/healthyComm/CLP/Pages/default.aspx>
- Kenya Country National Coordinator for World Space Week International Association.
<http://www.worldspaceweek.org/national-coordinators/>
- Asteroid Day Regional Coordinator for Kenya
<http://asteroidday.org/kenya/>
- United Nations Volunteer (UNV) for social protection organisations Ambassador Programme
<http://socialprotection.org/ambassadors>
- Member of The Computer Society of Kenya
<http://www.cskonline.org/>
- Member of Alison group - Kenya.
www.alison.com

Academic qualifications

- Master of Science (MSc) in ICT for Development (Dissertation Title; *Principles for Digital Development: A case study evaluation of integration in design and implementation of technology-enabled projects by development organisations in Kenya*).
- Master of Arts in International Development (MA ID) *on going*
- Bachelor of Education (Arts) in Economics (Major) and Geography, University of Nairobi, Second Class Honours Upper Division

Other Professional Trainings

- Project Management for Development Professionals (PMD Pro) - Level 1 examination.
(verifiable with candidate number PMD/541239 at <http://www.apmg-international.com/SCRQuery.aspx?exam=pmd>)
- Human-Centred Design course
- Human-Centred Design Catalyst Course
- Communication for Behavioural Impact (COMBI) training and writing of a strategic communication plan for Digital Birth Registration in Kwale and Kilifi County using COMBI methodology
- Communication for Development (C4D) – Commonwealth of Learning
- Certificate course in Child Centred Community Development (CCCD)

- Cisco Certified Network Associate 1&2 and IT Essential: PC Hardware and Software
- Nokia Data Gathering Software Training
- Certificate in Networking and Systems Administration - Egerton University
- Certificate in Information Technology (website design) - City & Guilds.
- Certificate in Communication skills - Bistech Systems Consultants
- Microsoft Digital Literacy – Microsoft
- Basic Computing IT and Workstation Ergonomics
- ArcGIS I: Introduction to GIS
- ArcGIS II: Essential Workflow
- Basic Security In The Field II and Advanced Security In The Field (UN Department of Safety and Security)

Referees

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