REPORT ON CCT ACTIVITIES – JANUARY 2016

1. CCT CORE STAFF

Principal Investigator for all projects:	Prof Darelle van Greunen
Project Manager and M&E:	Ms Alida Veldsman (Contract staff*)
Technical Lead and Researcher:	Dr Bertram Haskins
e-Skills Training Co-ordinator:	Ms Gloria Futshane (Contract staff)
Community Trainer and Lab Manager:	Mr Grant Jacobs (Contract staff)
Research Associates:	Dr Job Mashapa
	Dr Alexis Yeratziotis
Adjunct Professor:	Prof Paula Kotze
Postgraduate team leads:	Ms Yemisi Oyedele (Design)
	Mr Richard Pankomera (Documentation)
	Mr Loic Ndame (Development)
	Ms Natalie Meiring (Usability and User experience)
Development partner:	OurCode Pty Ltd (100% BEE)
	Undergraduate development academy (School of ICT Interns)

* Staff appointments are per project and comply with the LRA.

2. CURRENT PROJECTS

2.1 ICT in Health

It is important to note that the sub-projects outlined in this document are a **continuation of an existing project funded under the SHIP Initiative (2014 and 2015)**. After receiving a grant from the European Union (EU) towards the project mHealth4Afrika and the findings from a baseline study in the Eastern Cape, it was decided to re-align the existing SHIP proposal to meet the needs of healthcare professionals and associated stakeholders as identified in the latest baseline study. In addition to that, it is necessary to ensure that all the different solutions not only support specific strategic priorities but also adhere to *interoperability* and enable an *integrated* collection of more accurate data for the purpose of reporting and responding to the needs of the population. All solutions are developed using a participatory design approach with the emphasis on co-creation and it being patient-centred.

The sub-projects are listed in a manner that will allow for not only a phased approach over a period of 2 years but also the integration of various projects to build an integrated and interoperable health system that can benefit different stakeholders at different levels. Current and proposed projects are aligned to the School Health Policy (2012), the e-Health Strategy of South Africa as well as World Health Organisation (WHO) priorities. Within the South African context, the projects address the following strategic priorities:
- Strategic Priority 5: Investment, Affordability and Sustainability
- Strategic Priority 7: Capacity and Workforce
- Strategic Priority 8: e-Health Foundations
- Strategic Priority 9: Applications and Tools to support Healthcare Delivery

The overall goal is to provide integrated solutions to ensure a long and healthy life for all South Africans.

Overview of existing solutions

Figure 1 outlines the existing solutions that are available in the basket of solutions developed by the Centre for Community Technologies and its partners. The solutions are currently in a test phase (Alpha and Beta versions) to receive end user feedback on the workflow and applicability of the solutions. The feedback feeds into an iterative cycle to refine the solutions.
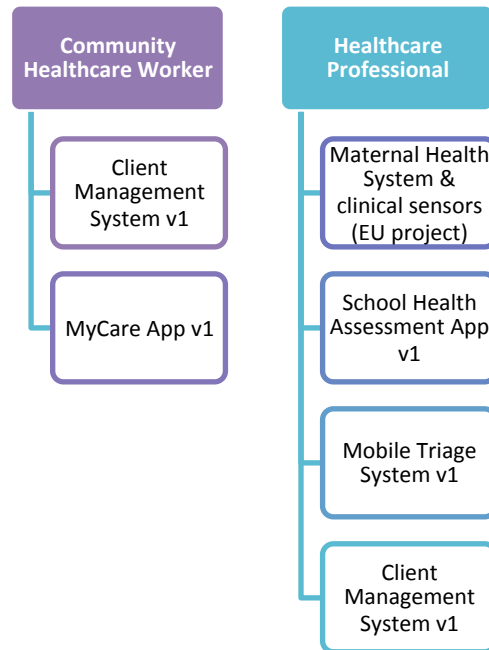

Figure 1: Outline of existing solutions (alpha and beta phase)

A recent (November/December 2015) baseline study in rural Eastern Cape indicated the need to re-align the current proposal. Figure 2 therefore outlines the needs identified during the baseline study.
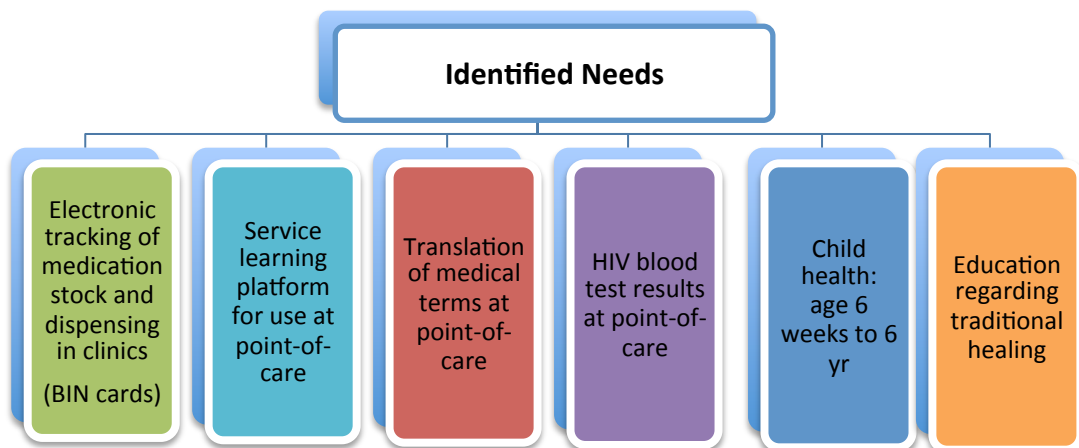

Figure 2: Needs of clinics in rural Eastern Cape
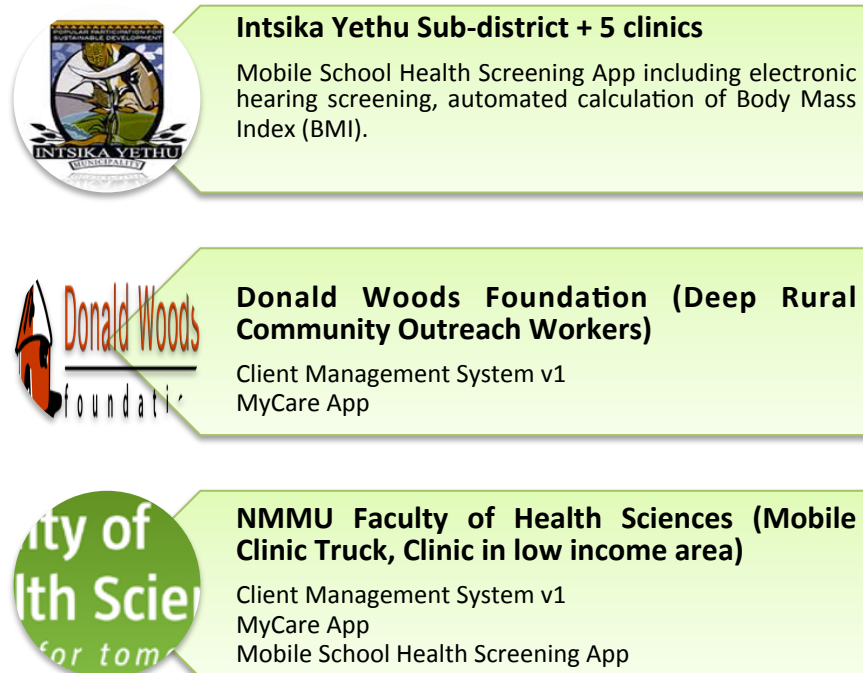
Current Usage of Solutions

Intsika Yethu Sub-district + 5 clinics

Mobile School Health Screening App including electronic hearing screening, automated calculation of Body Mass Index (BMI).

Donald Woods Foundation (Deep Rural Community Outreach Workers)

Client Management System v1
MyCare App

NMMU Faculty of Health Sciences (Mobile Clinic Truck, Clinic in low income area)

Client Management System v1
MyCare App
Mobile School Health Screening App

Figure 3: Current Usage of Solutions for the purpose of providing feedback

Funding Approved for 2016:

Organisation	Purpose
MRC-SHIP	Scaling of School Health Solutions to integrate with existing DoH systems
Donald Woods Foundation	Development of Client Management System for CHOW
Faculty of Health Sciences	Requirements for integrated solution for mobile truck as well as service learning for students
EU project	Specific work packages over 3 years

Funding Proposals awaiting outcome for 2016 - 2018:

Organisation	Purpose
MRC-SHIP and NDoH in partnership with THOMSA Open Medicine	Mobile Triage Solution for Public Healthcare Emergency Centres
Department of Arts and Culture	Mobile Medical Translations at point-of-care

Note:

Funding allocation is strictly according to the budgets submitted. Typical items for funding include the following:
- Salaries of contract staff
- Travel and subsistence
- Execution of research
- Development of systems
- Equipment specific to the project
- If permitted, student bursaries

2.2 SOCIAL DEVELOPMENT

FamHealth-NMMU Youth Leadership Academy

Co-ordinated by:
- Dr Jeff Govender (FamHealth)
- Prof Darelle van Greunen (NMMU)

2016 marks the 5th year of this initiative. To date, we have graduated 55 grade 11 learners. Some of those went on to be leaders in their respective schools. There are a considerable number of these learners who featured amongst the top achievers after the release of the grade 12 results in January 2016.

The FamHealth-NMMU Youth Leadership Academy's mission is to educate the youth, strengthen the family and rebuild the community by aiding and supporting the educational, spiritual, moral and social development of at-risk-youth.

The program aims to provide solutions to equip youth with the tools they need to successfully overcome their circumstances. All sessions over the 9 month period are offered by volunteers from the Nelson Mandela Bay area and then also specifically NMMU.

Specific aims include:
- To teach the youth skills that they will need in order to become successful adults.
- To creating new relationships with adults and peers, further connecting them to their community and enlarging their support network.
- To gain a better understanding of the community and its diversity.
- To assist youth to acquire a more positive stature in the community.
- To assist youth in gaining a better appreciation for adults and the multiple roles they can play.
- To assist youth to see their own potential as limitless.
- To assist youth to view the world, and their ability to affect it, in a positive way.
- To create a platform where youth feel needed and useful.
- To create a feeling amongst youth of enhanced power, autonomy, and self esteem.

Venue for activities
FamHealth Medipark, Springbok Street, Gelvandale (unless otherwise specified)

All activities are undertaken under the supervision of one of the co-ordinators or a designated member of either FamHealth or NMMU. Although we do not include a formal assessment, we award bronze, silver, gold and platinum certificates at the end of the course. These are based on attendance and participation.

Spar Eastern Cape has sponsored the refreshments for the duration of the programme. All other activities were paid for out of research funds generated by the different projects.

2016:
- Radio interviews scheduled for January 2016 to create awareness
- Email to principals to nominate 5 learners from each high school in the Northern Areas
- First sessions to commence in March 2016

Computer Lab Facilities at FamHealth

Under the leadership of Ms Gloria Futshane and Mr Grant Jacobs, some 50 community healthcare workers have successfully completed the NMMU Short Learning Programming: e-Skills for Community Healthcare Workers. The training follows onto the formal community healthcare training offered by FamHealth and the Hope Foundation. The training is offered to these participants free of charge. The impact has been noted with the incumbents being employed very soon after completing their training.

To date, Vodacom Foundation sponsored the Internet access at the facility. The sponsorship came to an end in December 2015.

2016:
- Training of community healthcare workers to continue twice a week
- Paid for short learning programmes to be offered to members of the public (the money from the courses is used to subsidize the cost of electricity, internet access and printer toner).
- To continue making the facilities available for use by learners after school. This remains free of charge.

Computer Lab Facilities at Willowvale

During 2015, the computer facility was used by learners for finding information on the Internet (sponsored by Vodacom Foundation) for their school assignments. Some informal computer literacy training also took place.

2016:
- In collaboration with Mrs Dumalisile, three members of the Amajingqi community will be trained in Port Elizabeth to offer the NMMU Short Learning Programme. Once the trainers are trained, they will offer the SLP to members of the community and learners from the schools in the area.
- Expansion of the facility is needed as the demand is becoming very high.
- Uncapped Internet access is necessary as this is the only Internet facility in the area.

Partners:
- Amajingqi Traditional Council
- Staff of Dumalisile High
- Vodacom Foundation for Internet (now expired)
- DG Murray Trust

2.3 NEW INITIATIVES 2016

- East Cape Macadamia Skills Academy
- Winter School Computer Literacy to children of NMMU staff who do not have access to computer labs
- Malabar Home for the Aged
- Roll-out of School Health App to all school health teams in Eastern Cape with a view to roll out nationally.
- Integration of school health with NDoH Maternal Health program, MomConnect.
- Systems and investigate production of special camera to support Ophthalmology at Livingstone Hospital (Neonatal care).

2.4 GEOGRAPHICAL AREAS OF PROJECTS

- Northern Areas, Nelson Mandela Bay
- Chris Hani district (Queenstown, Cofimvaba)
- Rural Eastern Cape (Ncera, Willowvale, Hobeni, Elliotdale)