

Better Health Care Delivery in East Africa through Computing

Hundreds of millions of people live in low income regions where care and treatment is entrusted to overworked and less skilled providers. The ability to provide appropriate tools is essential to better healthcare delivery. Computing can help.



e-IMCI is a PDA application which digitizes WHO and UNICEF medical protocols used in managing pediatric illnesses. In pilot tests for less trained health workers in Tanzania, e-IMCI showed more adherence to the protocols than the existing paper book.



OpenMRS is an open source electronic medical record system used all over the world to manage complex patient records. Our work in Rwanda has made OpenMRS more stable, easier to install, and simpler for clinicians to use.



CommCare is a phone application designed for community health workers. With many patients to manage, these health workers need simple but effective planning tools. CommCare is deployed in Tanzania.



Be it algorithms, databases, networking or user interfaces computer science can play a role in solving some of the challenges faced by under served populations.

Change is a group of students, faculty and staff at the University of Washington working together to address these challenges.

<http://change.cs.washington.edu/>

