Free access to Digital Health Information in Tanzania

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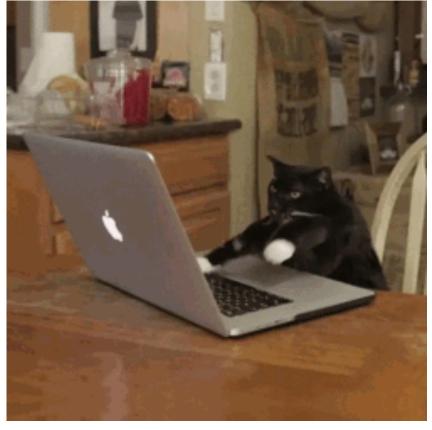
Digital health... What the health?

- Several definitions
- "The use of digital, mobile and wireless technologies to support the achievement of health objectives. Digital health describes the general use of information and communications technologies (ICT) for health and is inclusive of both mHealth and eHealth." WHO, 2016



Digital health interventions worldwide







Digital health interventions The Health Patients Students The Donors **NGOs** government workers\ communi\ Electronic Medical **HIV** patients medical Desicion **Activists** students Children/ records makers Adults Tuberculosis Social Supply chain edu patients Local and behavior rformance capacitychange ealth vilding Electronic Prou Huma Coun **HMIS** Treatment birth public prev resoul HISP Strat registration Qua Data SMS to Reminder collection assessm increase Surveillance emedicine medication vaccination

The Non-discriminating access for Digital Inclusion (Digl.BasicInternet.no) project

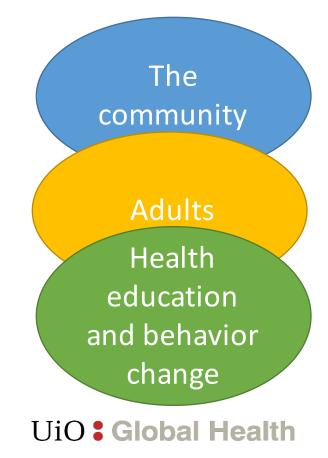
- Funding from The Norwegian research council and The Norwegian ministry for foreign affairs (15 M NOK)
- Project runs from Jan 2017 Jan 2020
- 11 partners from Tanzania, DR Congo, Rwanda, Serbia, Germany, France, Spain and Norway
- Multidisciplinary approach IT and health research
 - Focus: Free access to information for all (InfoInternet)





Free access to health information in Tanzania – A Digital Health Education Intervention

- Developing appropriate health messages within:
 - HIV / AIDS
 - Tuberculosis
 - One-Health diseases, Taenia solium (neuro)cysticercosis / taeniosis (TSCT)
 - Anthrax
- Synergies with CYSTINET-Africa
- Providing access to free digital health information
 - Local health facilities with InfoInternet



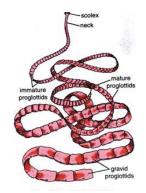


HIV/AIDS, TB and TSCT

- HIV / AIDS
 - 36.7 million // 35 million
- TB
 - 10.4 million new TB cases in 2015
 - Tuberculosis (TB) is one of the top 10 causes of death worldwide and the leading killer of HIV-positive people. (WHO 2017)
- TSCT
 - In humans, the most frequently preventable cause of epilepsy in sub-Saharan Africa (30% of people with epilepsy in endemic countries)





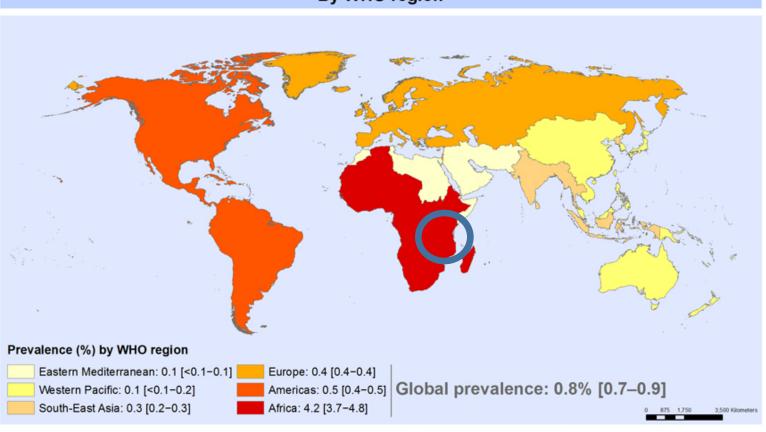






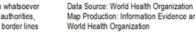
Prevalence HIV, 2016

Prevalence of HIV among adults aged 15 to 49, 2016 By WHO region





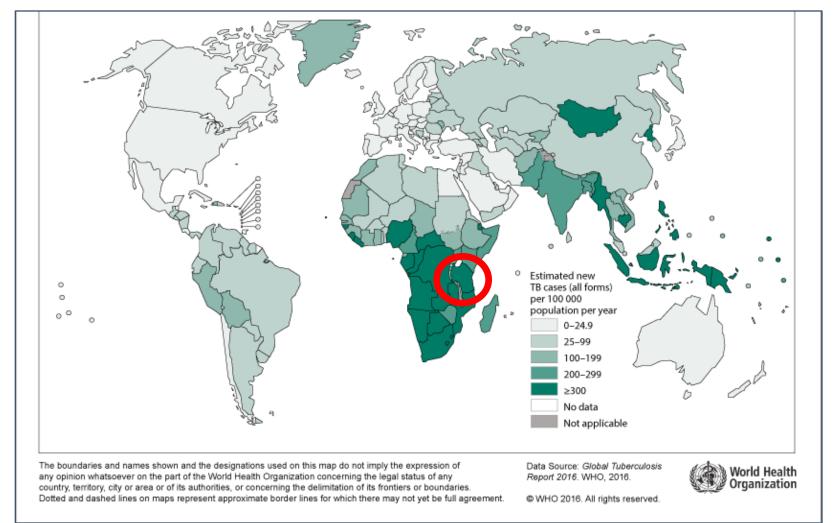








Estimated Tuberculosis incidence rates, 2015



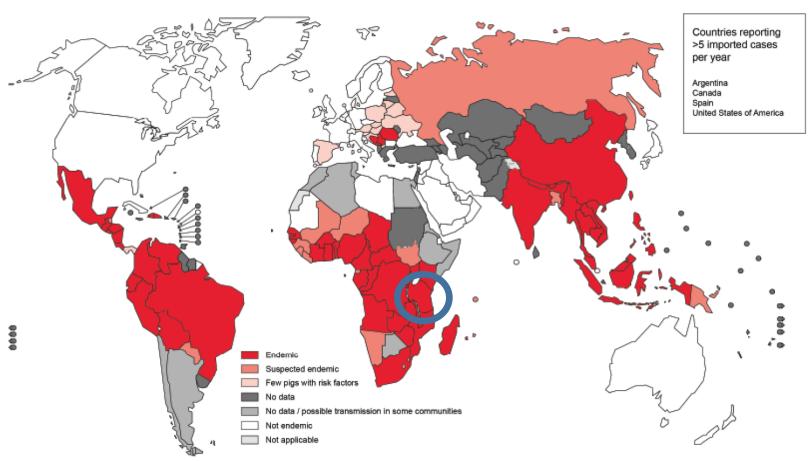








Distribution of *Taenia solium* infection worldwide, 2015











Pilot installation: "Africa@Kjeller"













Timeline

To assess existing knowledge and attitudes

To explore changes in knowledge and attitudes

Ethical approvals and registrations Q4, 2017

Baseline study Q1, 2018

Health Education Intervention Q2, 2018 Endline study Q2, 2019

How effective is the Digital Health Education Intervention in order to improve knowledge and attitudes related to HIV/AIDS, TB and TSTC in intervention villages?



Prospective evaluation of digital health education

- Pre and post intervention to explore knowledge and attitudes, via questionnaires
- Study area: Mtera, Izazi and Selela, in addition to 3 control villages
- Sample size: +/- 2000 people to be followed up
- 3 research assistants from Sokoine / NIMR
- 12-15 days in each villages



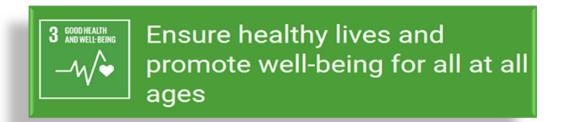
Expected publications

- Digital Health Education Interventions in the global south: A systematic review
- Digital Health Education Interventions for improving knowledge and attitudes on HIV/AIDS and Tuberculosis – A longitudinal study in Tanzania
- Digital Health Education Interventions for improving knowledge and attitudes on *Taenia solium* (Neuro)cysticercosis and Taeniasis – A longitudinal study in Tanzania



Why is this project important?

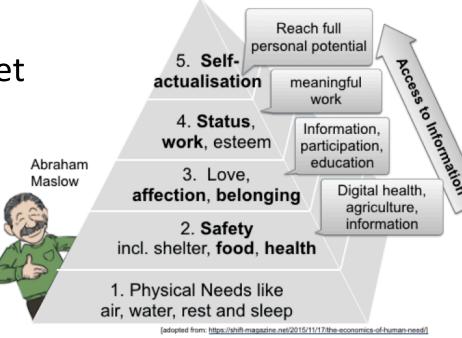
- 4 billion people not connected to the internet
- Digital inclusion is the key for sustainable development
- Digital health related to SDGs















Thank you Digl partners

















GLOBAL



extenso















Important issues

- How to facilitate digital health education in the global south?
- How to measure the impact of a digital health education intervention?
- How to separate good quality digital health interventions from poor quality?
- IT-perspective:
 - Digital Health as catalyst for the Digital society
 - Digital Data knowledge for digital health?

