



# Digital Health as catalyst for Digital Societies

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#### Google translate

### Partnership for Digital Africa

Comment: As a guest country at the G20 summit, we must help to change the world | Erna Solberg

ERNA SOLBERG (H), PRIME MINISTER

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In July last year was Erna Solberg invited by Angela Merkel for this year's G20 meeting. Here from a meeting between the German Chancellor and the Norwegian Prime Minister in Berlin in November, where Norway's participation as guest country at the economic summit were among issues discussed.

http://www.aftenposten.no/meninger/debatt/ Kronikk-Som-gjesteland-pa-G20-toppmotet-ma-vi-Basic bidra-til-a-endre-verden--Erna-Solberg-614076b.html

#### 1. UN sustainability goals and Agenda 2030:

Germany has chosen this agenda as a backdrop for their entire program for the presidency, and I lead a group at the United Nations that will drive towards implementation.

We will work to ensure that the G20 goes ahead with its own specific commitments to help achieve sustainability goals.

#### 2. Migration and partnership with Africa:

The world is experiencing the greatest influx of refugees since World War II. Europe, and especially Germany, have seen the consequences of that.

It is necessary to improve the situation where people break up close. Germany will use its chairmanship to do something about the problems which people belong. There is no minimum job creation and private investment. There are agreements with African countries wishing to achieve it.

G20 can therefore help the countries and international organizations use their resources more on measures which create growth and job creation.

#### 3. Health and education.

**Free Information for Digital Inclusion** 

Norway has long had a heavy international involvement. Education and health are associated with economic growth.





## United Nations Sustainable Development Goals







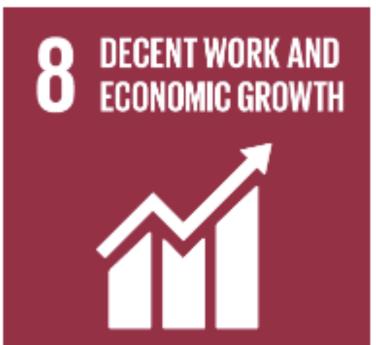






















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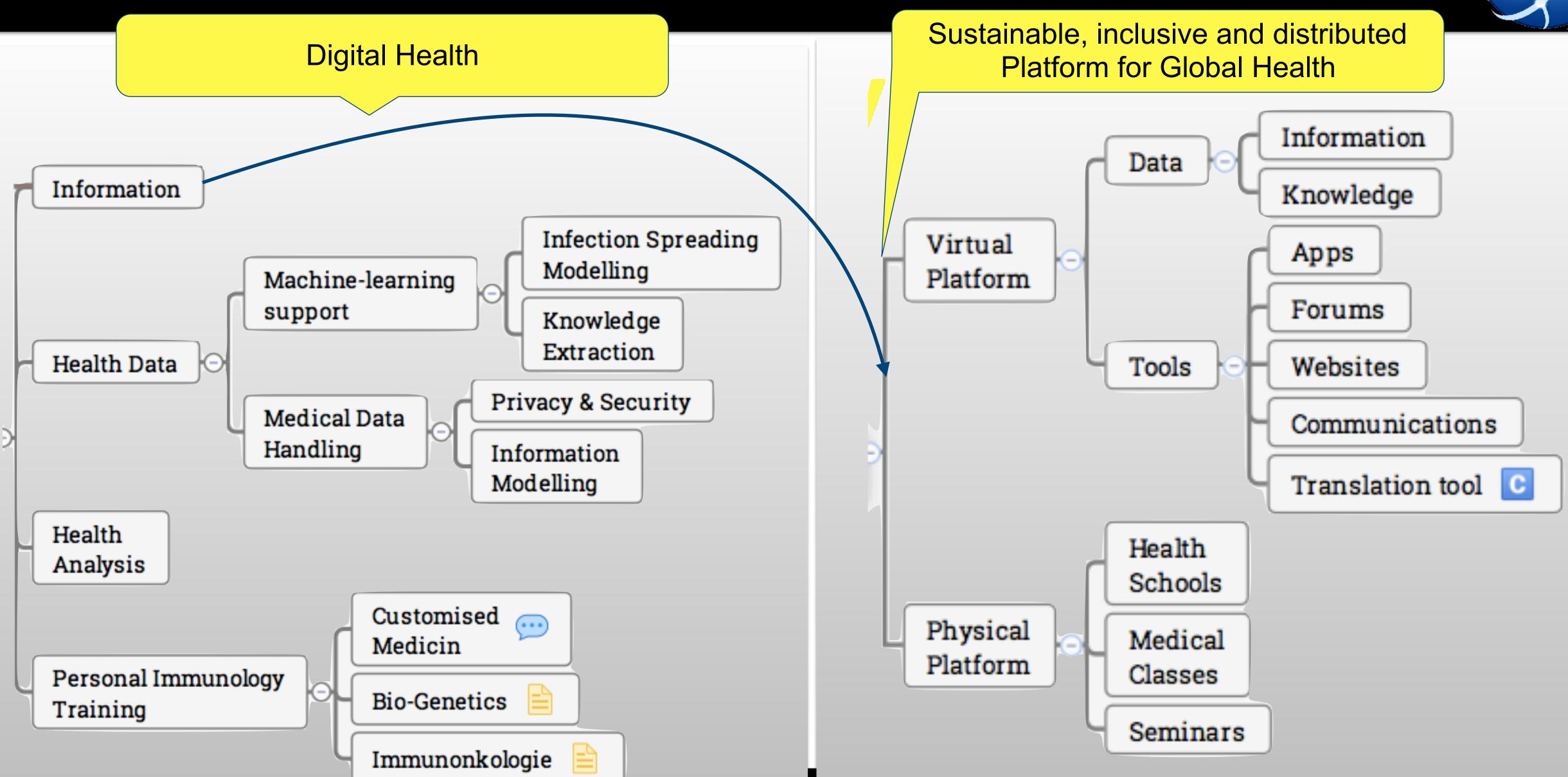


### Digital Health & Digital Health Platform

@Basic4all

BasicInternet.org

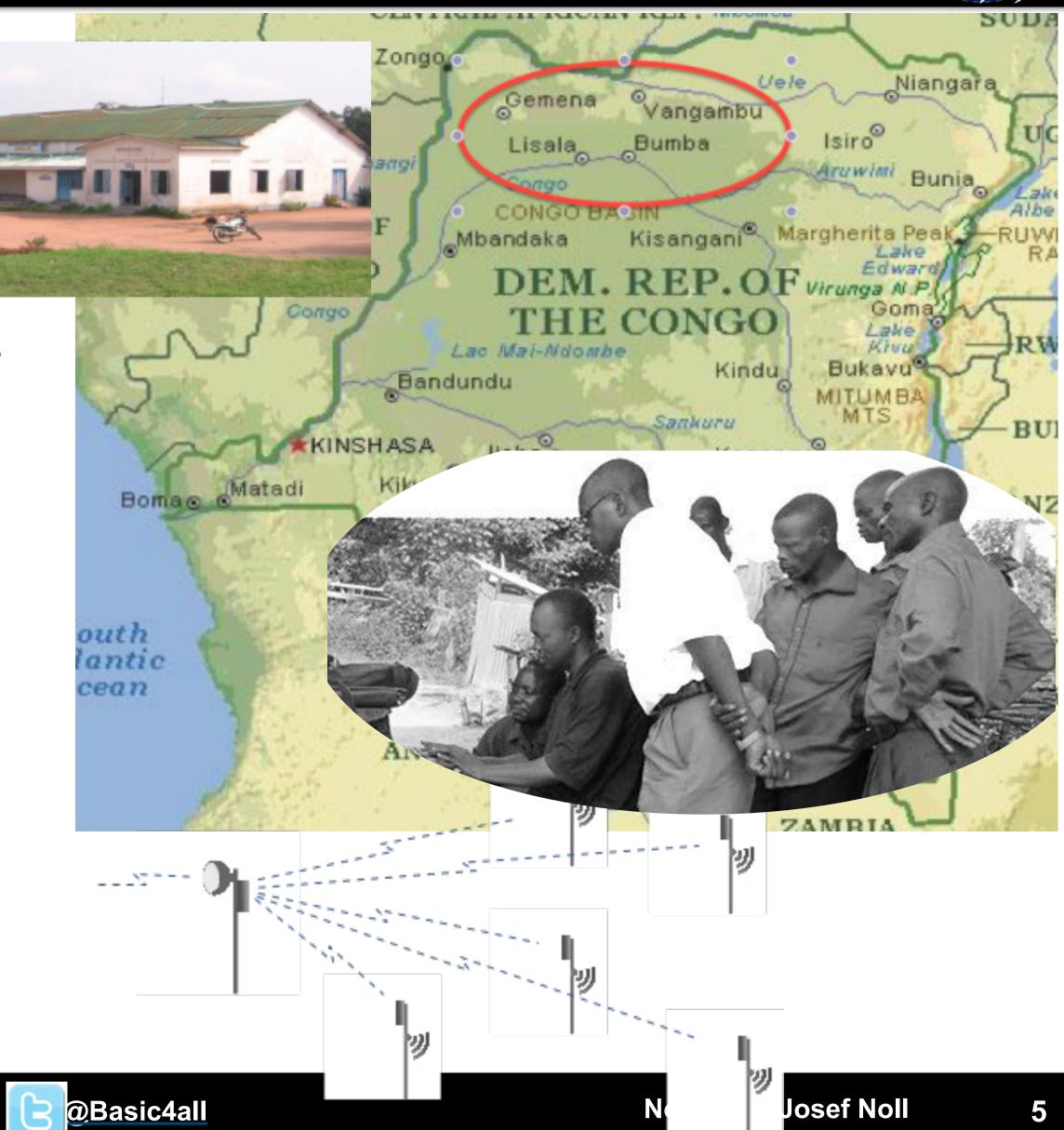




**Free Information for Digital Inclusion** 

### Background

- Internet provision to various parts of DRC
  - → operations since 2011
- Connection to a.o. University of Lisala
- Experiences from Internet provision
  - → Expensive access: 2000 US\$/month for 1 Mbit/s Note: 80 Mbit/s for 66 US\$ (NO), factor: 2.420 or 0.04%
  - → Requirement for self-sustainable infrastructure
- Developed network infrastructure
  - → low-cost establishment of local hot-spots
  - → remote core infrastructure (in Norway)
  - → based on experiences from Internet history at UiO/UNIK







### Connectivity & Affordability



- Mobile driven development,
  - → Revenue-driven
- Affordability (costs of data)
- industrial perspective
  - → Industry4.0, Internet of Things
- Novel Approach required



### The Unconnected Market Landscape

#### **Unique Mobile Internet Users**

Population 15+ (bn)	Total
Developed World	0.9
Developing World	4.3
Total	5.2

ВМІ	NMI	Unconnected	
0.6	0.1	0.3	
1.0	0.8	2.5	3.3
1.6	0.9	2.8	

Penetration 15+ (%)	Total
Developed World	100%
Developing World	100%
Total	100%

ВМІ	NMI	Unconnected	
64%	10	27%	
23%	18%	59%	77%
30%	-0/	53%	

Source: GSMA Intelligence; figures reflect position at end of 2014

BMI = Broadband Mobile Internet (3G/4G); NMI = Narrowband Mobile Internet (<3G)

77% don't have decent access

[Source: GSMA, Nov2015]







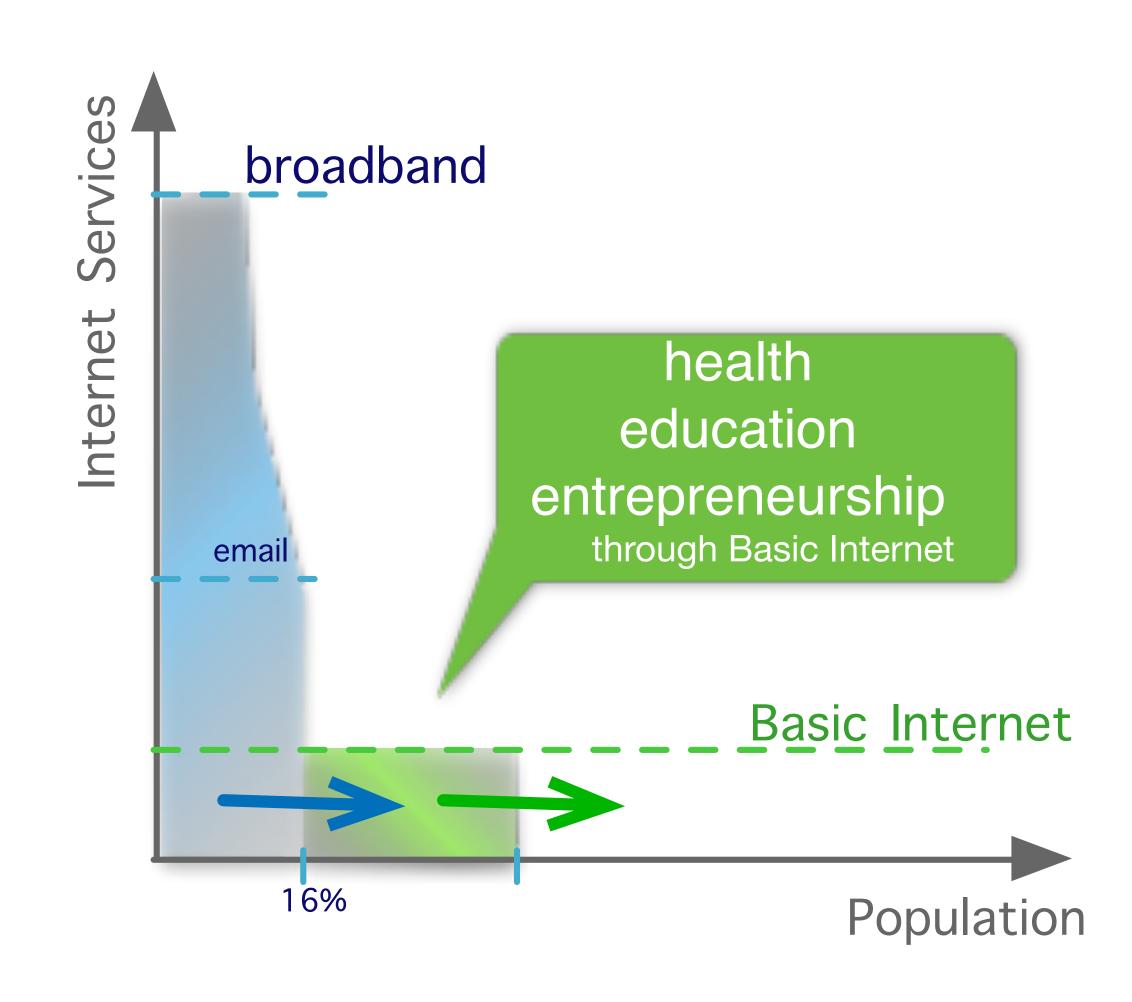




### "Half a dollar is enough"



- "nobody pays for a health video"
  - requires new business model
- Internet light: text & pictures
  - → Free access to information
  - → Local content: health video, education
  - → Voucher access to entertainment
- 10 min video = 10 months of information [Source:Opera Software]
  - → Information: 2-2.5% bandwidth
  - → 1 paid user + 300-400 "Internet light"



## "Internet light for all" free access to information for all



#### **Road Infrastructure**

- Basic infrastructure
  - free usage for pedestrians & cyclists
  - authentication for cars
- Highways & toll roads
  - speed & comfort
  - often privately managed
- Successful complementarity

**BasicInternet.no** 





#### **Infolnternet Infrastructure**

- Basic Access
  - free access of information
  - walk to Internet



- Broadband and Mobile services
  - → Voice, video & games
  - speed & comfort
  - privately managed
- Complementarity









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### The need for Partnerskap – Infolnternet





[Sc	ource:	GSMA,	Nov2015]

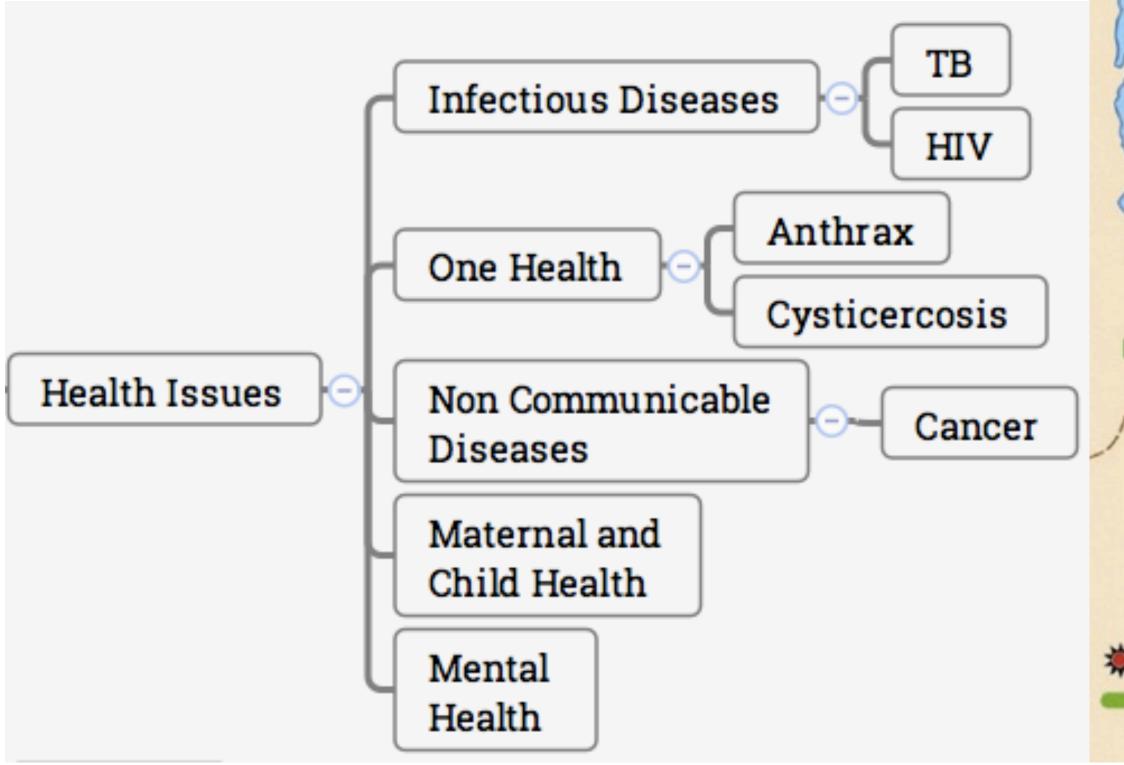
Partnership for digital inclusion		
Telecom	Internet light	
revenue-driven	non-profit	
targeting leveraged creation	targeting no- and limited use	
voice & mobile broadband	compressed text & pictures	
subscription based (SIM)	free access & voucher	
mobile network: coverage & capacity	Wifi-spots: health-/community centres, schools	
operator cost model	target: 0.5 US\$/month	

### Tanzania – Digital Health





- Digital Health Information
  - → 4 villages with health spots in Tanzania
  - → Focus on TB, HIV, Anthrax and Cysticercosis
  - Health videos





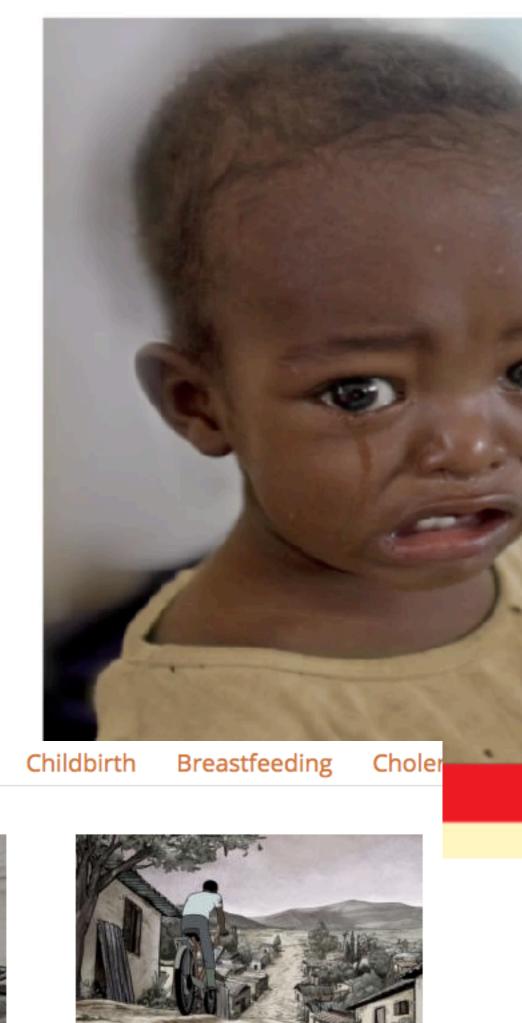
### Digital Global Health Involvement, participation and sharing



 Catalyst for Agenda 2030 and SDGs

Entry point for the Digital Society





KWA WATOTO

The Story of Ebola, English

Newborn

The Story of Ebola, Swahili

https://globalhealthmedia.org/videos









### Summary

- Digital Inclusion is the key for sustainable development
- Net neutrality
  - → access to information, compressed text and pictures through the InfoInternet standard
- Establishing the pilots for Digital Inclusion through Internet light for all
  - → Focus in Tanzania on health
  - → Focus in DRC on education/work
- Well-balanced team
  - → Strong local presence
  - → Academia, Politics, Industry and SMEs
- Catalyst for Sustainable Development Goals (SDGs)

















5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION























### Partners









MOVITION



eyenetworks





























