**Collaboration on Digital Inclusion,
Norwegian Embassy, Dar es Salaam, 12Feb2018**

Partnership for Digital Tanzania

Prof. Josef Noll

University of Oslo

Basic Internet Foundation

josef.noll@its.uio.no, m: +47 9083 8066

DigI.BasicInternet.no

Goals of the meeting

- Get known to each other - table round
  - ➡ Partners from "Digital Inclusion" project
  - ➡ Governmental organisations, regulatory bodies
  - ➡ Telecom operators
  - ➡ all forming the "the ecosystem for digital Tanzania"
- Goal of the Meeting, the DigI approach for digital health and digital inclusion
- USCAF and Digital Literacy in rural Tanzania
- Digital Health for Tanzania

- Discussion on "free access to non-profit content"
- Phase A: Connecting the 3 villages
- Phase B: Connecting 10 villages
- Common initiative "Connecting the Unconnected 4.000 villages"?

DigI and Basic Internet Partners
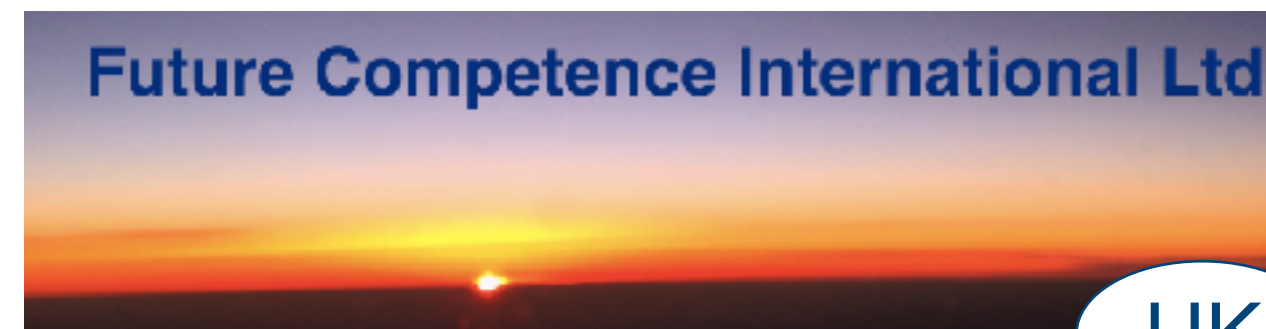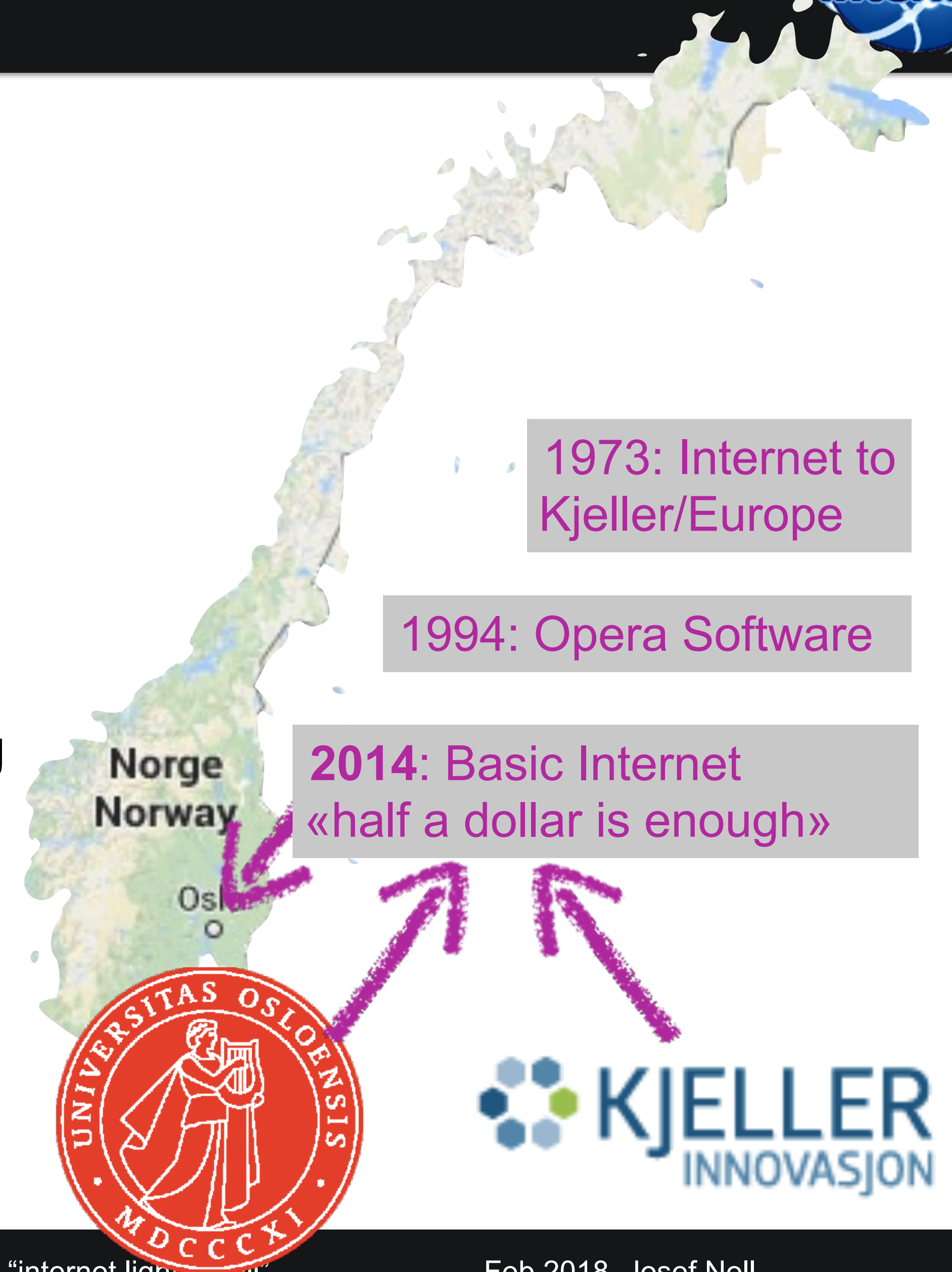
About the Basic Internet Foundation

- Founded by University of Oslo (UNIK) and Kjeller Innovation
  - ➡ facilitates: "**Internet light for all**"
  - ➡ free access to information: text, pictures and local content
  - ➡ Develops the market, complementary to market actors
  - ➡ Sustainable business, free information & paid amusement
  - ➡ Secretary General: Prof. Josef Noll (UiO)

- Information is the basis for education, health and entrepreneurship
- Digitalisation is the engine of economic growth and wellbeing of people
- Sustainable development requires digital inclusion, which necessitates Internet for all
- Impact lives of the unconnected 3.5 billions of people in the world

1973: Internet to Kjeller/Europe

1994: Opera Software

2014: Basic Internet «half a dollar is enough»

Norge
Norway

Osl o

UNIVERSITAS OSLOENSIS
MDCCCXI

KJELLER INNOVASJON

Google translate
Partnership for Digital Africa

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

Basic
Internet

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

ERNA SOLBERG (H), PRIME MINISTER

UPDATED: 30.JAN.2017 9:39 P.M. | PUBLISHED: 30.JAN.2017 7:58 P.M.

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.

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.

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

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.
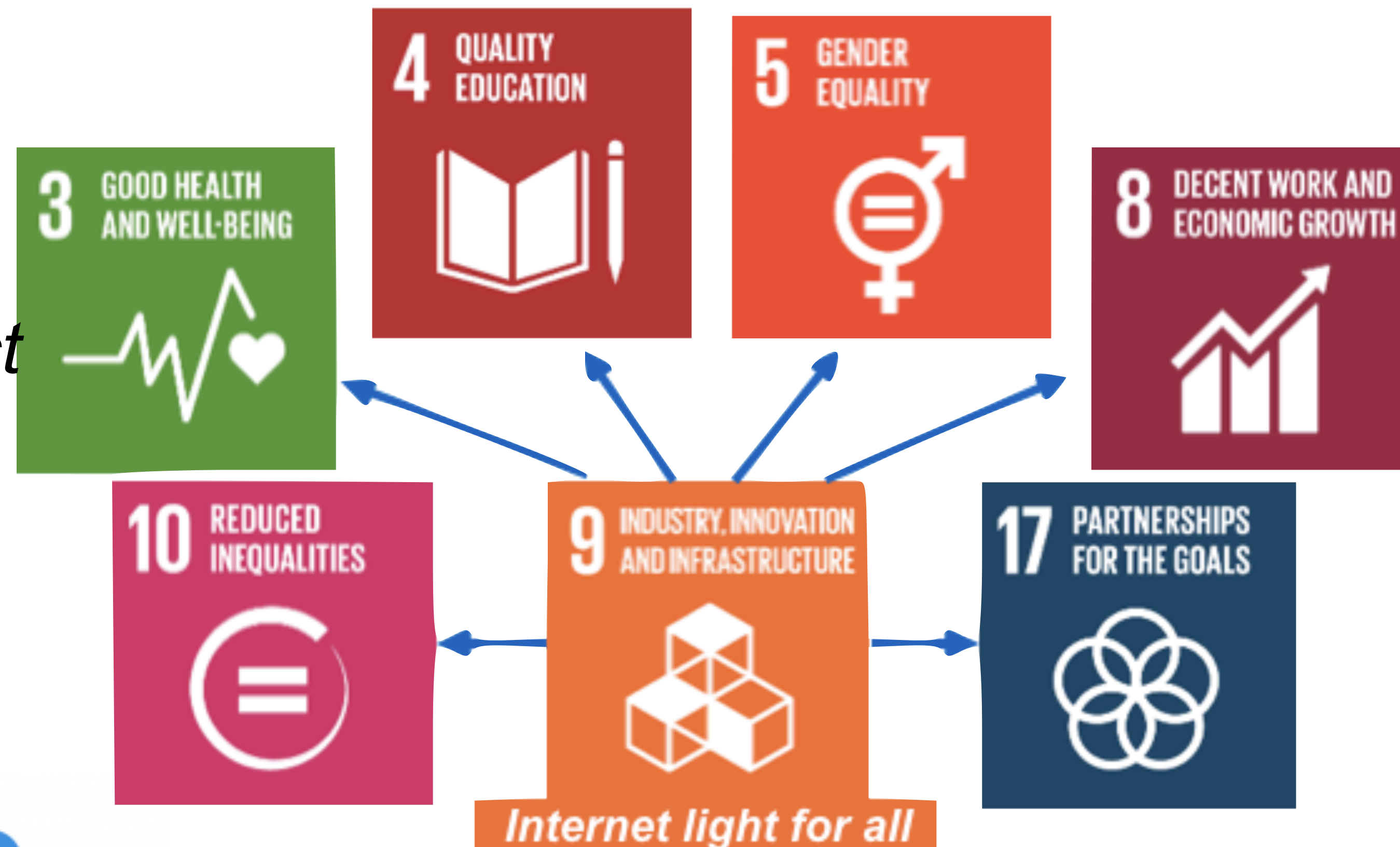
Our contribution:

- **Internet light for all**
  - ➡ **free access** to text and pictures
    - the "**walk** on the Internet"
  - ➡ paid access to amusement
    - "Toll Roads"
- The **catalyst** for the SDGs

Free local info
➡ health
➡ education
➡ agriculture
➡ e-Gov

Goal: Include people with 1 USD/month for communications

Péage

- Provide free access to information for all

- Combat the Digital Divide

- Support the Sustainable Development Goals (SDGs)

- *"Non discriminating access"* project
  ➡ funded by RCN and Mfa/Norad (14.9 MNOK for 2017-2019)
  ➡ Tanzania: digital health
  ➡ DR Congo: digital society

- Example: Digital Tanzania
  - ➡ Unconnected: 13 Million people in 4.000 villages
- Combined effort of
  - ➡ IT industry,
  - ➡ World Bank,
  - ➡ Telecom and
  - ➡ Norwegian Industry

GSM + Wifi
- ➡ 200W
- ➡ MicroBTS

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.

- Funding requirements
  - ➡ $ 65.000 per village
  - ➡ $ 280 Million for Digital Tanzania
  - ➡ € 89 Billion EU Frontex border control

Cost: 70 kUS$/village

1 USD/month for Telecom

nternet @Basic4all

3. Health and education.

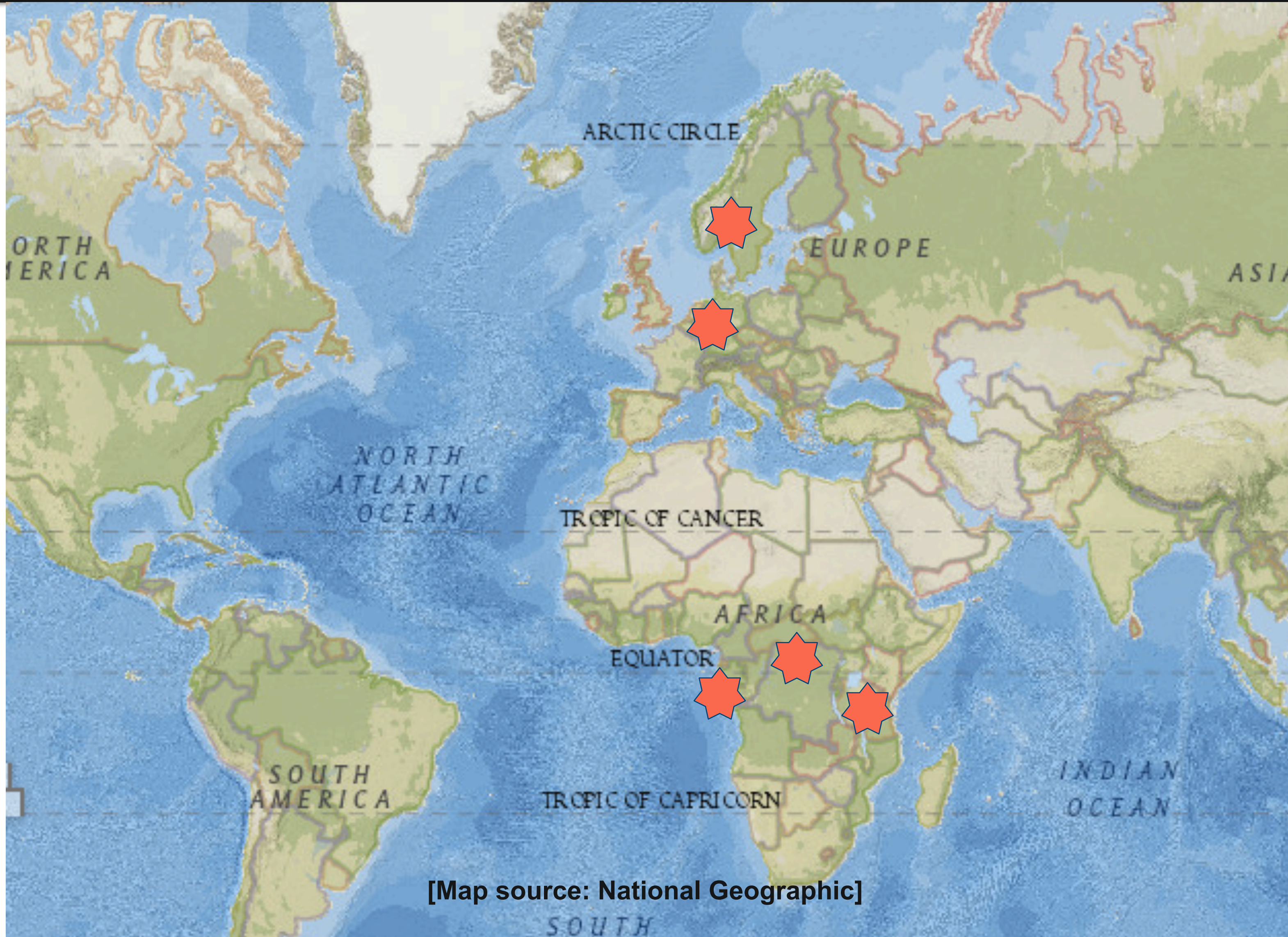Norway has long had a heavy international involvement. Education and health are associated with economic growth.

- "nobody pays for a health video"
  - ➡ 10 min of video or 10 months of information?
  - ➡ need for 2-2,5% of bandwidth for free information
- Health as basis for further development
- Digital Education
- Participation in the Digital Society

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

Abraham Maslow

Access to Information

- Reach full personal potential
- meaningful work
- Information, participation, education
- Digital health, agriculture, information

5. **Self-actualisation**

4. **Status, work**, esteem

3. Love, **affection, belonging**

2. **Safety** incl. shelter, **food, health**

1. Physical Needs like air, water, rest and sleep

[adopted from: https://shift-magazine.net/2015/11/17/the-economics-of-human-need/]

Connect the unconnected - our projects

- **Lisala, Kinshasa++ (2011)**
  - ➡ Internet
- **Kinshasa**
  - ➡ Hot-spot, local content
- **Oslo og Bærum, (2014)**
  - ➡ Health "GravidPluss.no"
- **Bottrop, Germany (2017)**
  - ➡ Caritas Kinderdorf, Children village
- **Tanzania (2017)**
  - ➡ Health
- **Congo (2017)**
  - ➡ Digital Economy
- **21 Health stations in Norway (2017)**
  - ➡ "TrygtSvangerskap.no"
- **Connecting rural India (2018?)**
  - ➡ Gram Mar - IIT Bombay

[Map source: National Geographic]

Non-discriminating access for Digital Inclusion
fostering "Internet light for all"

- Internet light for all
  - ➡ Free access to information
  - ➡ for everyone
  - ➡ for all times (sustainable busine
  - ➡ KPI evaluation
- Pilot in Tanzania
  - ➡ Health information
  - ➡ 2 health spot (Phase A)
  - ➡ 10 health spot (Phase B)
- Pilot in DRC
  - ➡ Extend GSM with InfoInternet
  - ➡ 2 + 6 off-grid villages (A + B)
- Sustainability and Impact

Non-discriminating Access for Digital Inclusion

| Home | Overview | Tanzania | DRC | Basic Internet | Connect the Unconnected | About us |

The **Non-discriminating access for Digital Inclusion** (DigI) project is a three year project, running from 2017 - 2020 with the main objective to establish pilots for the InfoInternet access in DRC Congo and Tanzania. The project was founded by the Research Council of Norway as part of the Visjon2030 portfolje[1]. R&I work related to the pilots will prove business profitability for commercial establishment of the InfoInternet as an independent and self-sustainable ICT and communication infrastructure for digital inclusion. Internet access is a universal issue and of major concern to many policy makers and governments. Free access to information presents the basis for a scalable solution of digital access for everyone in the society.

About us

DigI members
- Josef Noll
- Andrea Winkler
- Ingeborg K Haavardsson
- Christine Holst
- Elibariki Mwakapeje
- Helena Ngowi
- Bernard Ngowi
- Erwan Le Quentrec
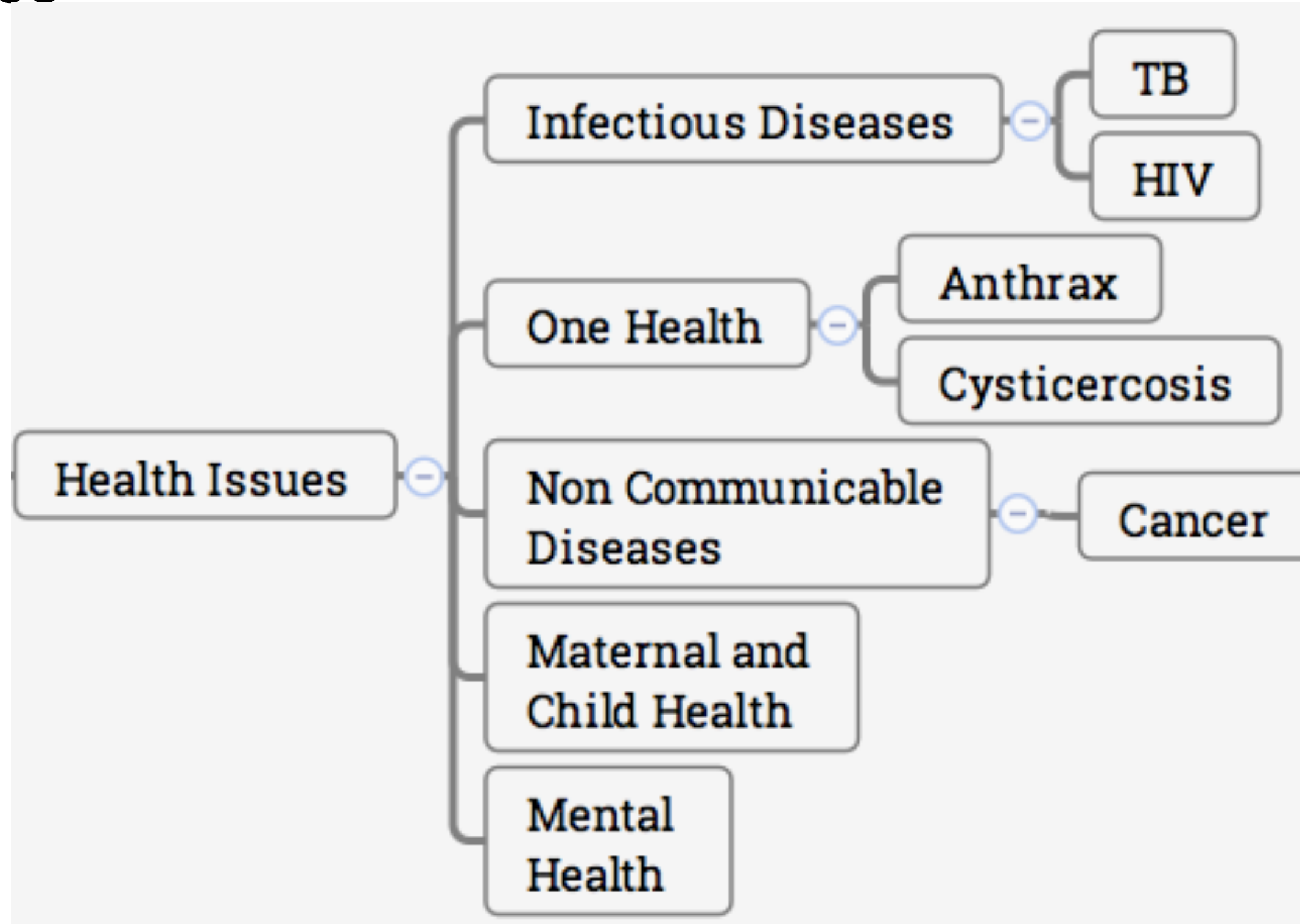- Finn Helge Tolpinrud
- Maurice Isabwe
- Peter Cardellichio

http://DigI.BasicInternet.no
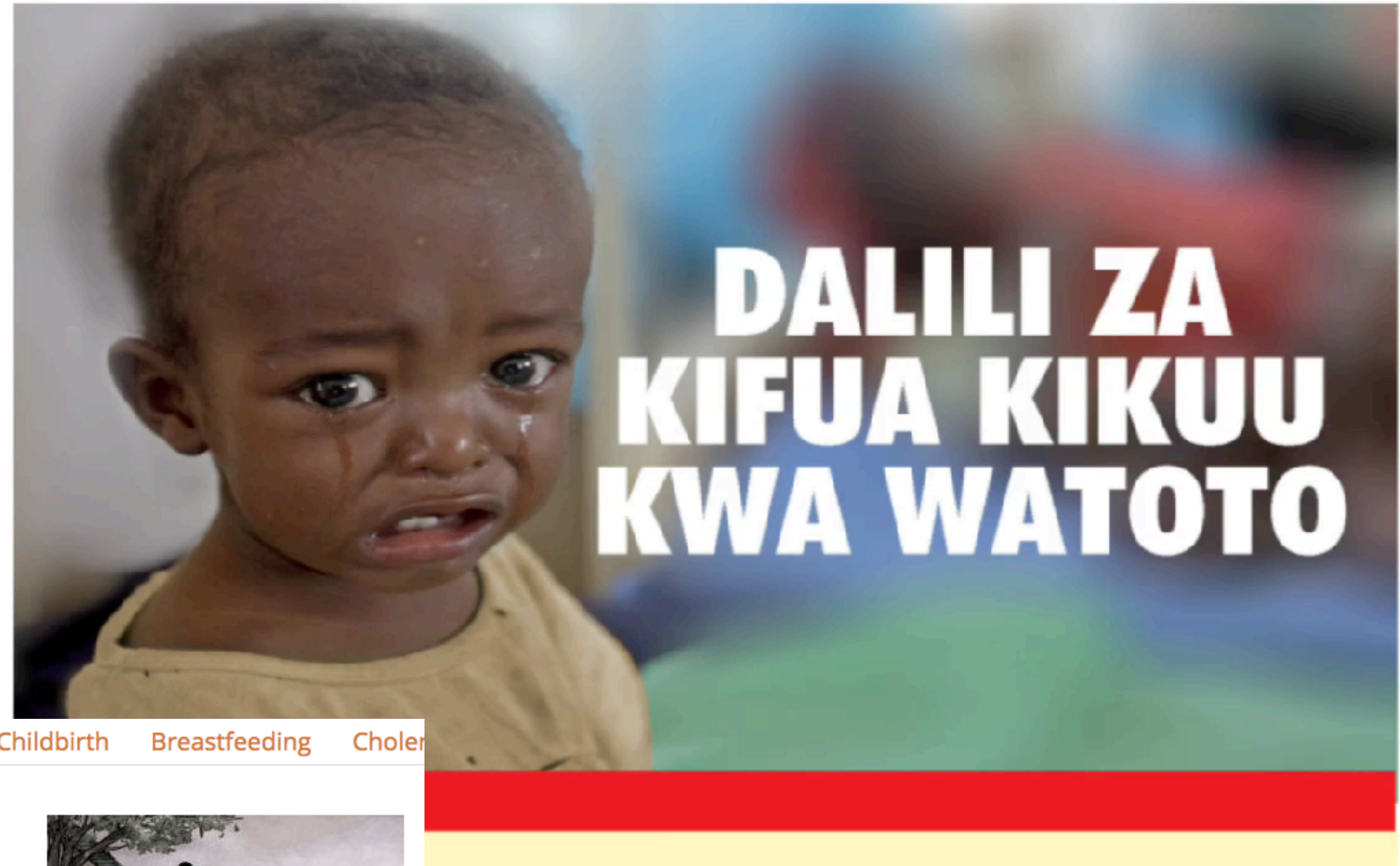
Tanzania – Digital Health

- Digital Health Information
  - ➡ 3 villages with health spots in Tanzania
    - ‣ Mtera, Izazi, Selela
  - ➡ Focus on TB, HIV, Anthrax and Cysticercosis
  - ➡ Health videos

TANZANIA NATIONAL ICT BROADBAND BACKBONE NETWORK MAP

Digital Global Health
Involvement, participation and sharing

- **Catalyst** for Agenda 2030 and SDGs

- **Entry point** for the **Digital Society**

WITELCOM

DALILI ZA KIFUA KIKUU KWA WATOTO

All   Small Baby   Newborn   Childbirth   Breastfeeding   Choler

The Story of Ebola, English

The Story of Ebola, Swahili

https://globalhealthmedia.org/videos

Conclusions: Collaboration on Digital Inclusion

- We are here to discuss Digital Inclusion
  - ➡ all forming the "the ecosystem for digital Tanzania"
  - ➡ our contribution: "Internet light for all" & Digital Health

- We'd like to hear more on
  - ➡ USCAF and Digital Literacy in rural Tanzania
  - ➡ Digital Health for Tanzania

- Looking for the discussion on "free access to non-profit content"
  - ➡ Phase A: Connecting the 3 villages
  - ➡ Phase B: Connecting 10 villages
  - ➡ Common initiative "Connecting the Unconnected villages"?

Supported project by

2017

Open
Innovation
Lab of Norway

Basic
Internet

- Common vision: **Connect the Unconnected** through showcase: Digital Tanzania

Discussion