



**Open Innovation Lab of Norway,
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**“Internet light for All”
fostering the Agenda 2030 and the SDGs**

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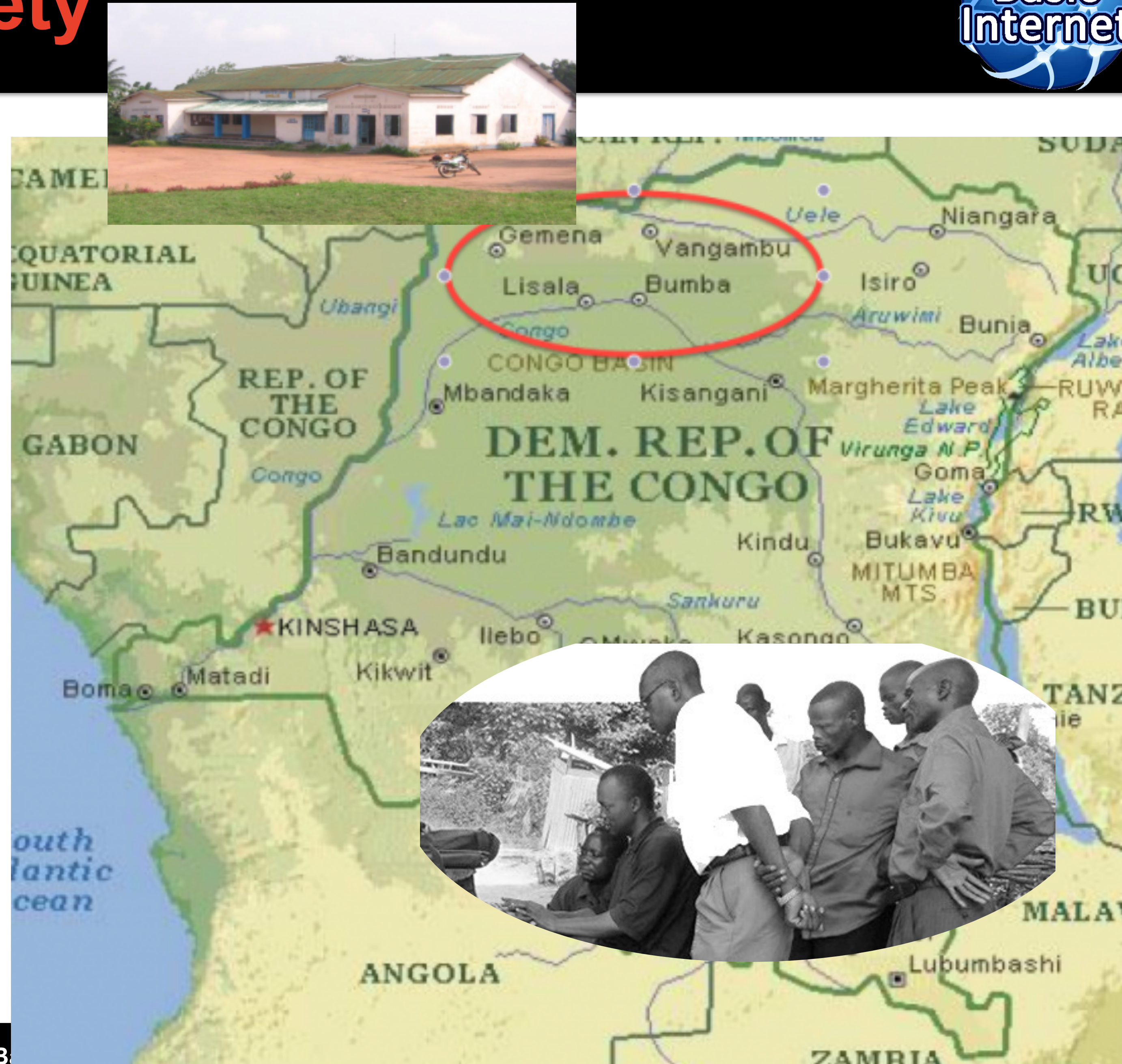
Summary

- **5G** development
 - ➔ (i) Massive mobile broadband,
 - ➔ (ii) billions of devices and
 - ➔ (iii) ultra-reliable and ultra-low latency networks
 - ➔ **NEW:** (iv) the free access to information for all.
- **Net neutrality**
 - ➔ access to information, compressed text and pictures through **Internet light for all**
- Partnership with Africa, pilots for **Digital Inclusion** through *Internet light for all*
 - ➔ Focus in **Tanzania** on **health**
 - ➔ Focus in **DRC** on education/**work**
- **Catalyst** for Sustainable Development Goals (SDGs)



(iv) Societal: Digital Society

- Combat the Digital Divide
 - Lisala: 2 x size (NL+BE)
 - no Internet (2010)
- Expensive access:
 - 2000 US\$/month for 1 Mbit/s
 - Note: 80 Mbit/s for 66 US\$ (NO), factor: 2.420 or 0.04%

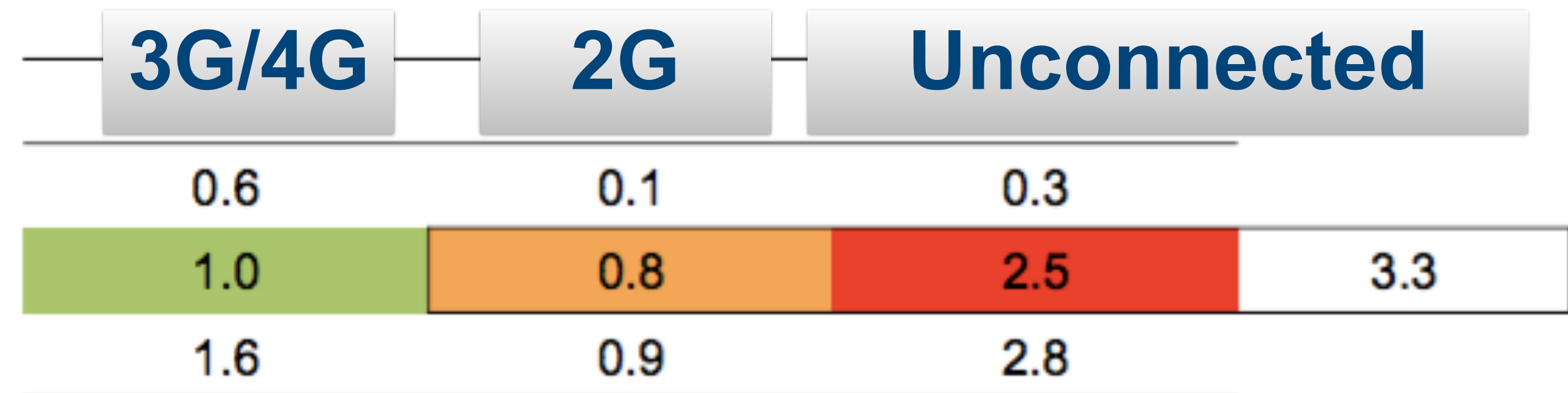




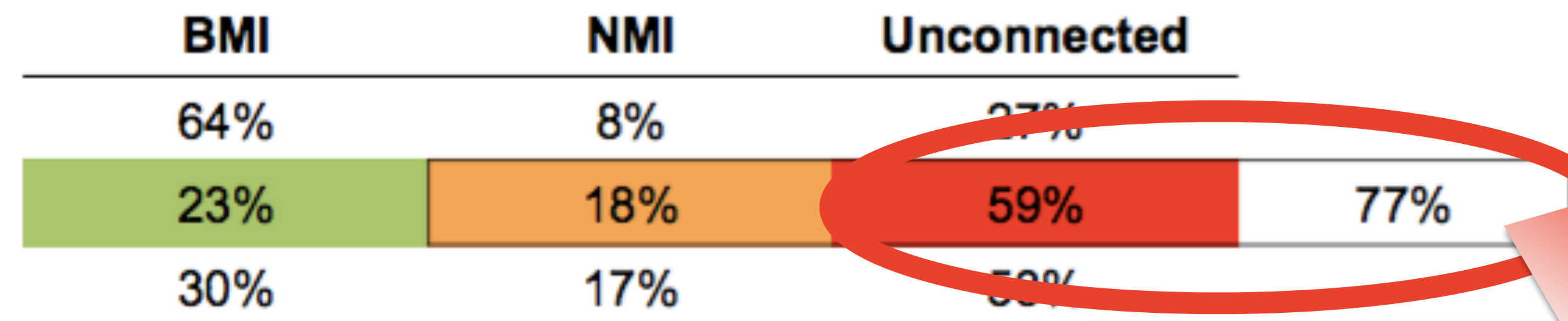
The Unconnected Market Landscape

Unique Mobile Internet Users

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



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



77% don't have decent access

Source: GSMA Intelligence; figures reflect position at end of 2014
 BMI = Broadband Mobile Internet (3G/4G); NMI = Narrowband Mobile Internet (<3G)

[Source: GSMA, Nov2015]

Erna Solberg: Priority for G20 Migration and Partnership with Africa

- Example: Digital Tanzania

- Unconnected: 13 Million people in 4.000 villages
- Combined effort of
 - IT industry,
 - World Bank,
 - Telecom and
 - **Industry**



1 USD/month for Telecom



GSM + Wifi
200W
MicroBTS

Cost: 70 kUS\$/village

Digital Health Spot for 300 €

Creating digital access for the unconnected



Digital inclusion
The catalyst for sustainable development

300 € digital health hotspot
60.000 € connecting a village in TZ
250.000.000 € connecting all villages in TZ
89.000.000.000 € EU border control per year









 Digital society

 Agricultural and rural development

 Education

 Health

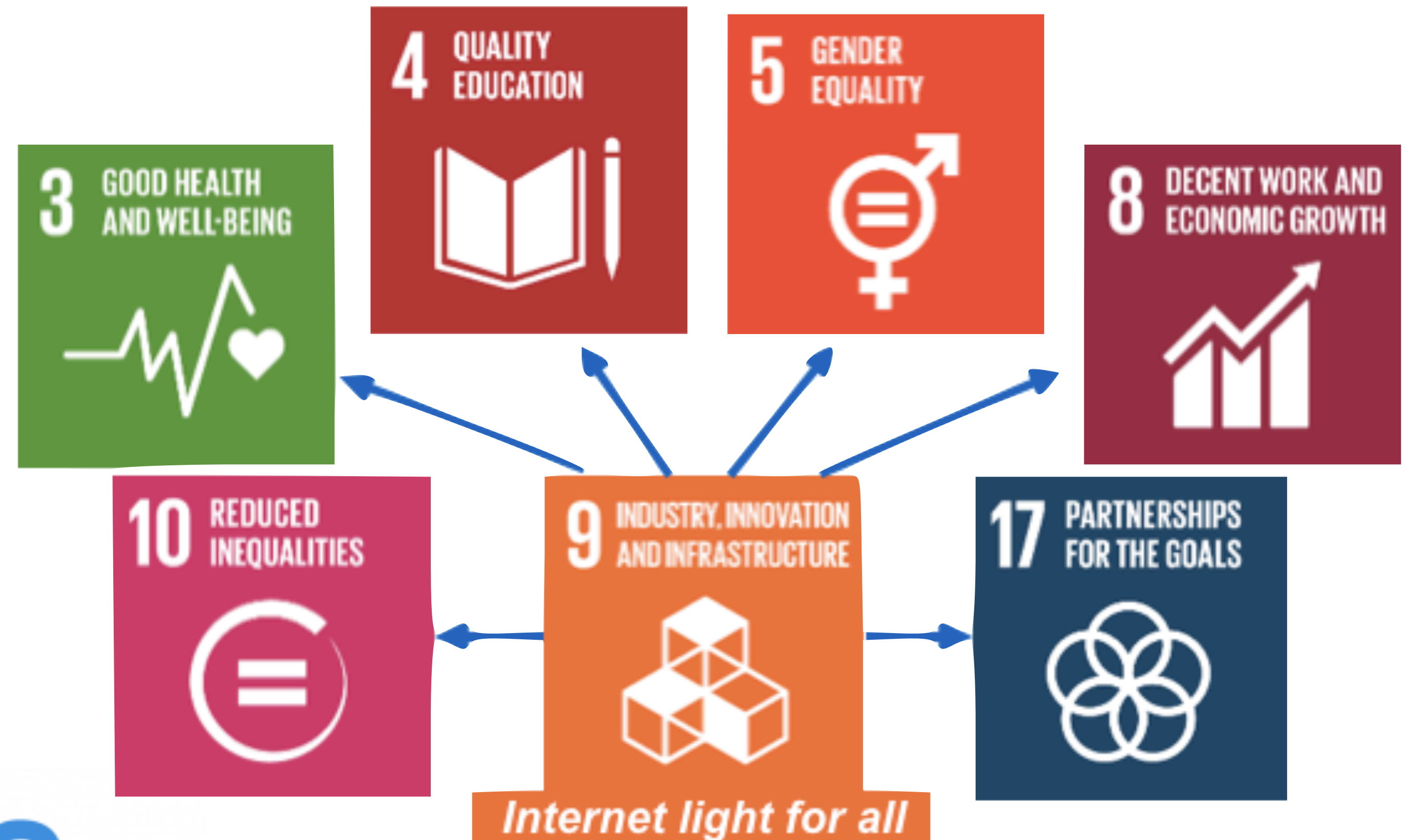
   Food, water and shelter

-  80 € Solar panel
-  50 € Hotspot
-  50 € Tablet
-  20 € Battery
-  30 € Regulator
-  20 € USB-charger
-  15 € LED light
-  20 € Materials



(iv) Societal: Sustainability and Digital Society

- Combat the Digital Divide
- Support the Sustainable Development Goals (SDGs)
- (iv) provide free access to information for all



Thanks for your support

- I need more **help**:
- Support the vision
“**Internet light for all**”
- Spread the vision
 - ➔ on your web site
 - ➔ in meetings
- Join us in
Connect the Unconnected
Showcase: Digital Tanzania (2018)



Partners



FR



ES



Ministry of Health, TZ



UiO



TZ



USA



UK



TZ

