

UiO **Department of Technology Systems** University of Oslo

Benefit from Digital Innovation Hubs to connect the unconnected in Europa, Norway and Africa - Webinar 11Mai2021

Next Generation Internet in a Societal Perspective

- Professor, University of Oslo, Department of Technology Systems
 - Secretary General, Basic Internet Foundation
 - Kjeller, Norway, m: +47 9083 8066, e: josef@jnoll.net



Josef Noll,





JOSEPH E. STIGLITZ **Starting Point:** WINNER OF THE NOBEL PRIZE IN ECONOMICS #Internet4All "Internet had the ability to dismantle the divide. Internet failed miserably, the Wide is bigger than ever. UNC divide Gilmore, Human Rights, ENDANGERS OUR FUTURE



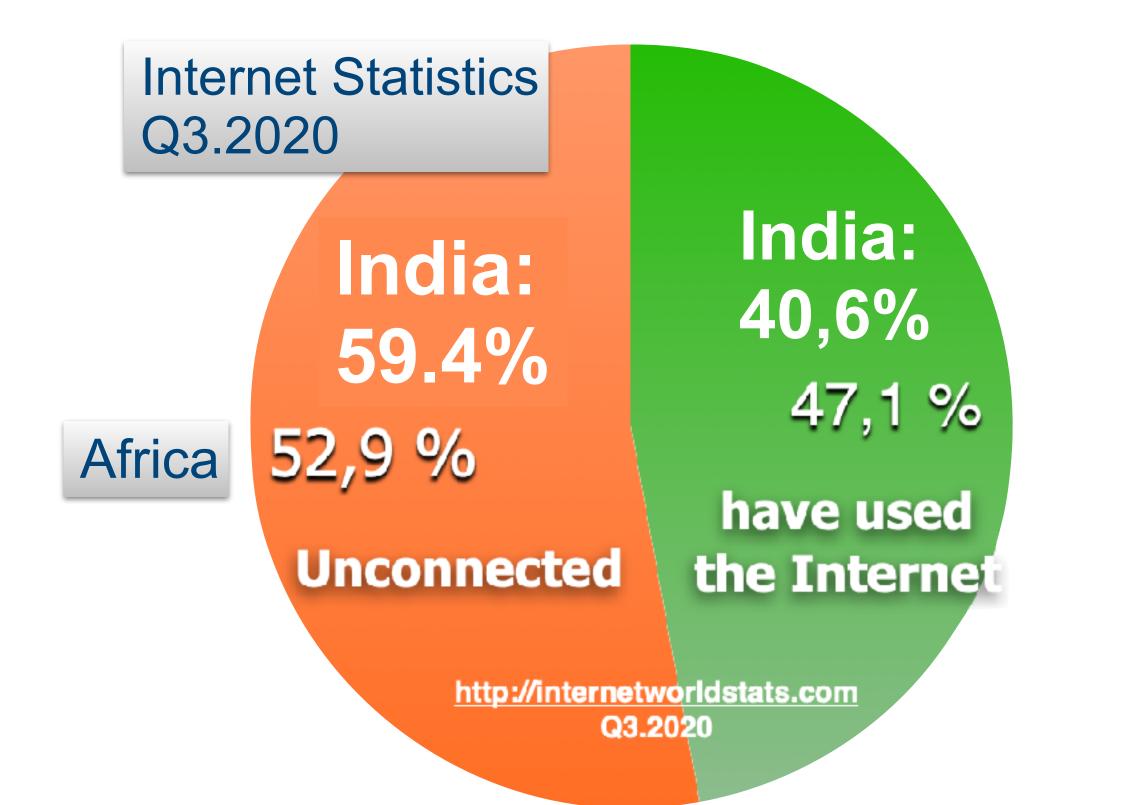
Societal needs as driver for a decentralised 6G

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Next Generation Internet as basis for empowerment and trust



ASIA INTERNET USE, POPULATION STATISTICS DAT AND FACEBOOK DATA - JUNE 30, 2020					
ASIA	Population	Internet Users,	Internet Users	Penetration	Users
	(2020 Est.)	(Year 2000)	31-MAY-2020	% Population	% Asia

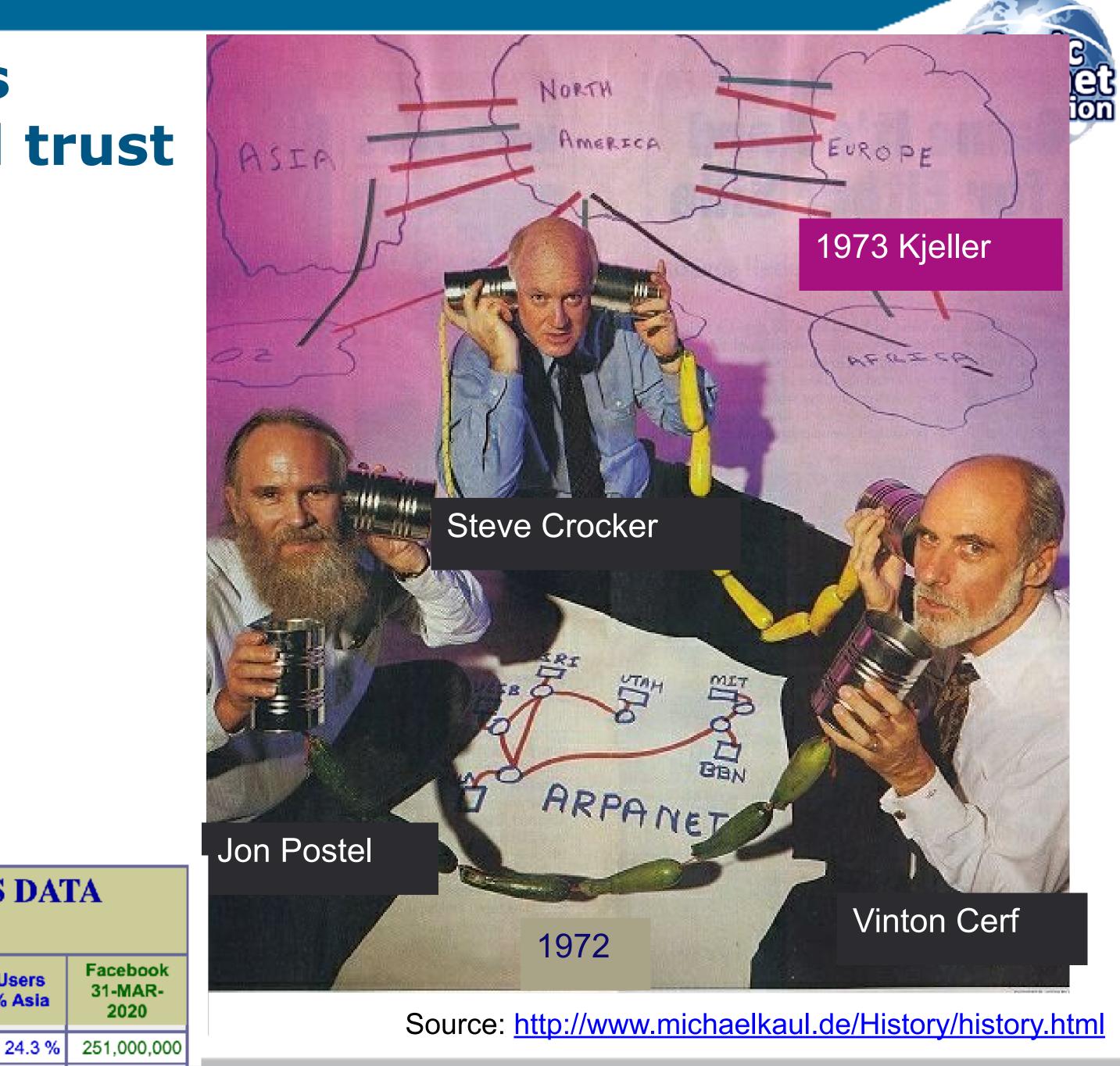
5,000,000

560,000,000

40.6 %

1,380,004,385

<u>India</u>

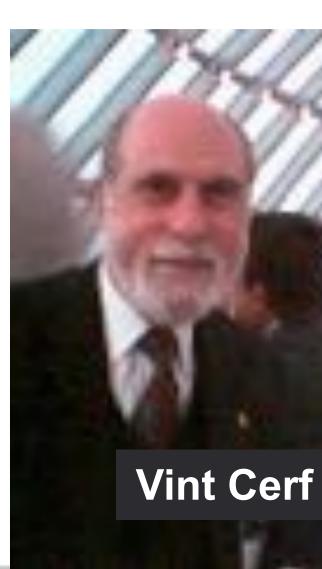


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The Internet and Scandinavia

- Internet: June 1973 to Kjeller
- List_of_Internet_pioneers [Wikipedia]
 - Yngvar Lundh, Paal Spilling
- Application development
- .php, OpenSource, Linux, Skype, Spotify
- OperaSoftware, FAST Search
- Nokia, Ericsson
- Telenor, Telia
- Mobile Internet:
 - GSM
 - Service adaptation



BIRTH OF THE INTERNET

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COLLABORATING GROUPS

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Yngvar Lundh

NGI in a Societal Perspective

Sigrid Cerf

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Internet and the SDGs in Africa Source: afrobarometer.org

- Public Opinion on SDGs
- Priorities by people in Africa
 - decent work
 - zero hunger
 - good health

. . .

https://blogs.worldbank.org/africacan/how-do-africans-priorities-align-with-the-sdgs-and-government-performance-new-results-from















Reality of the Digital Divide

- Internet through the mobile network Mobile network is business-driven
- "Boys have the toys"
 - digital divide in both devices
 - Example Smartphone ownership: 33% male, 16% female (Bangladesh)
 - mobile broadband access

TZ: 640 USD for 4 Mbit/s GH: 600 USD for 5 Mbit/s KE: 600 USD for 10 Mbit/s "every single month"

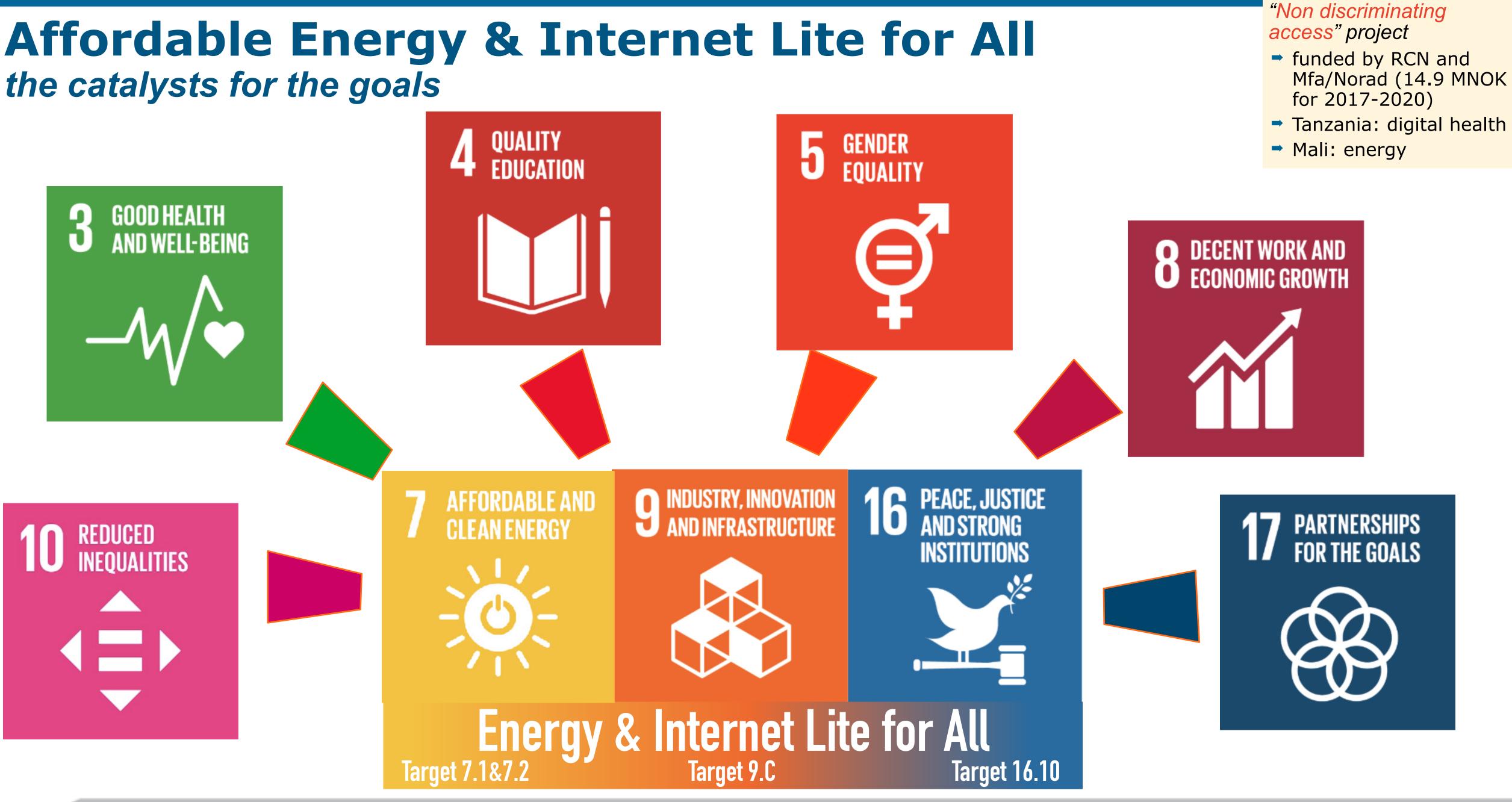


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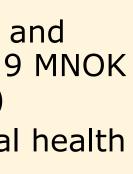
the catalysts for the goals



NGI in a Societal Perspective



Showcase





Providing Internet for All

Free access to Information (Internet Lite)

- I) Access one Information Spot per village
- 2) Skills Health, Education, Agriculture
- 3) Regulations Freemium model
- 4) Inclusion -Free access for all #LeaveNoOneBehind
- Internet Lite & Freemium model for access • free access to National Knowledge Portal for all
 - premium access to broadband
 - sustainable solution



Decentralised value creation

- Freemium model for access free access to Internet Lite
 - premium access to broadband
- support Community Networks democratise the access to the Internet InfoSpots with local content Increase the value in the society

Basic Internet Foundation

Internet Lite to the Migoli High School



The Migoli High School has 1271 pupils (Apr2019) and 35 full-time teachers. The high school is located about 3 km outside of Migoli in the Iringa district in Tanzania.

Migoli (Nyerere High School)



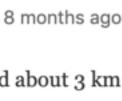
https://basicinternet.org/internet-lite-to-the-migoli-high-school/AMP/

Societal needs as driver for a decentralised 6G

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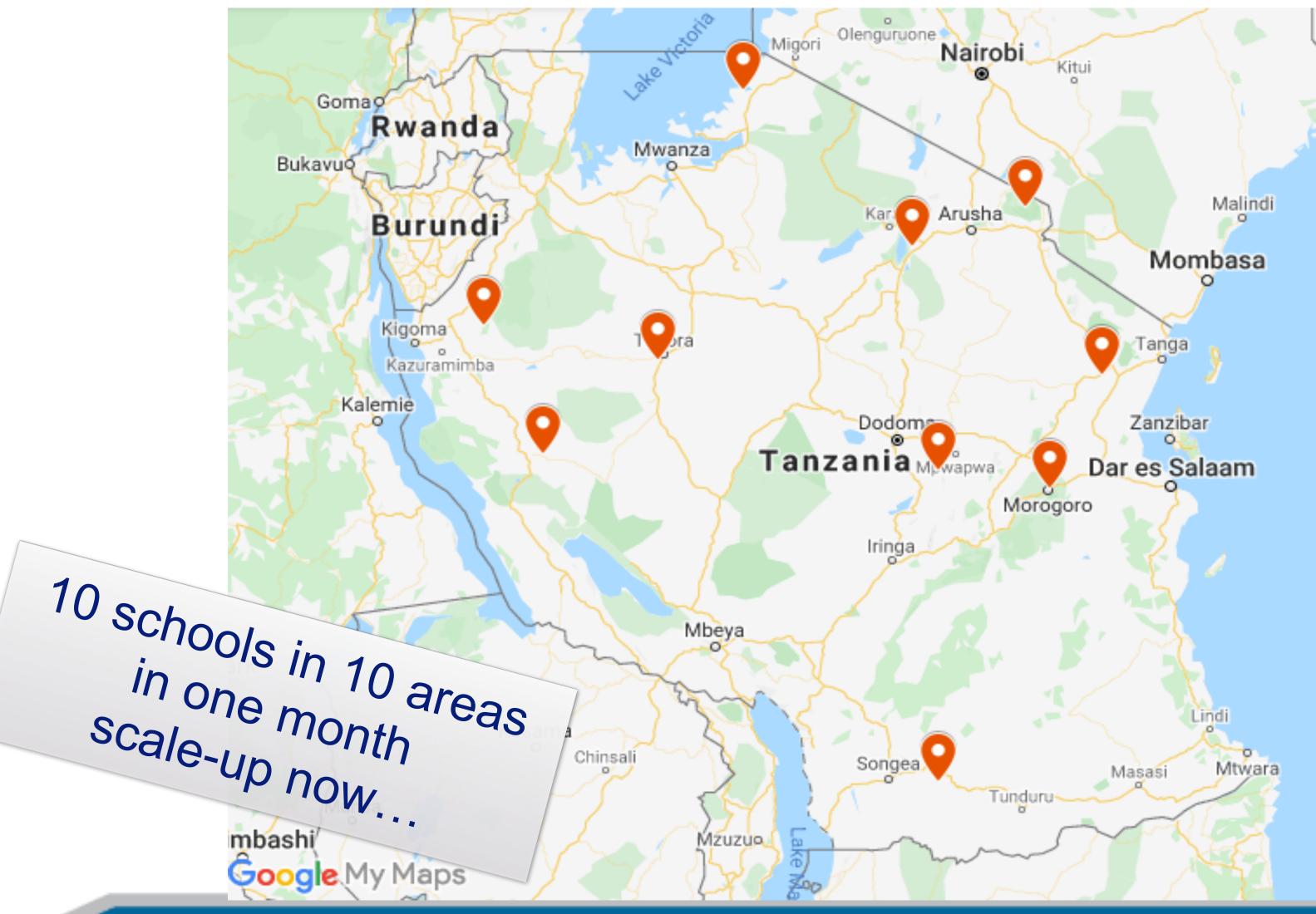








Communities driving the change: Catherine connects schools

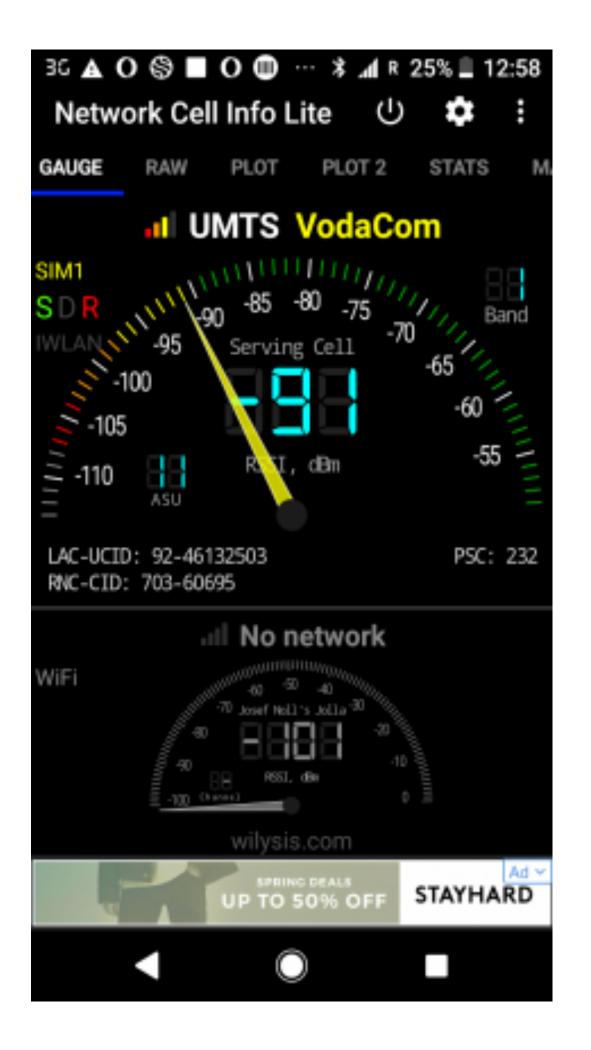


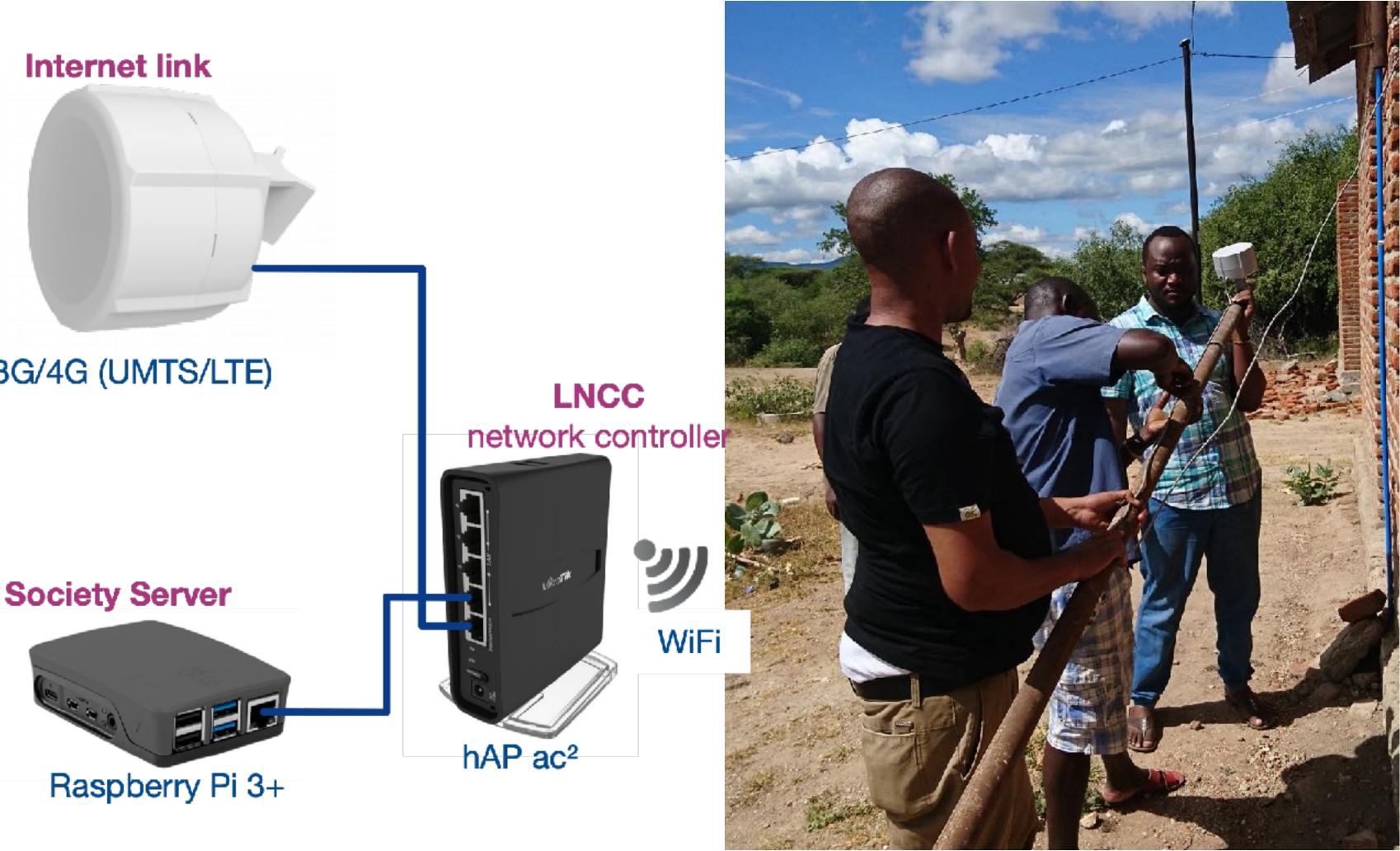




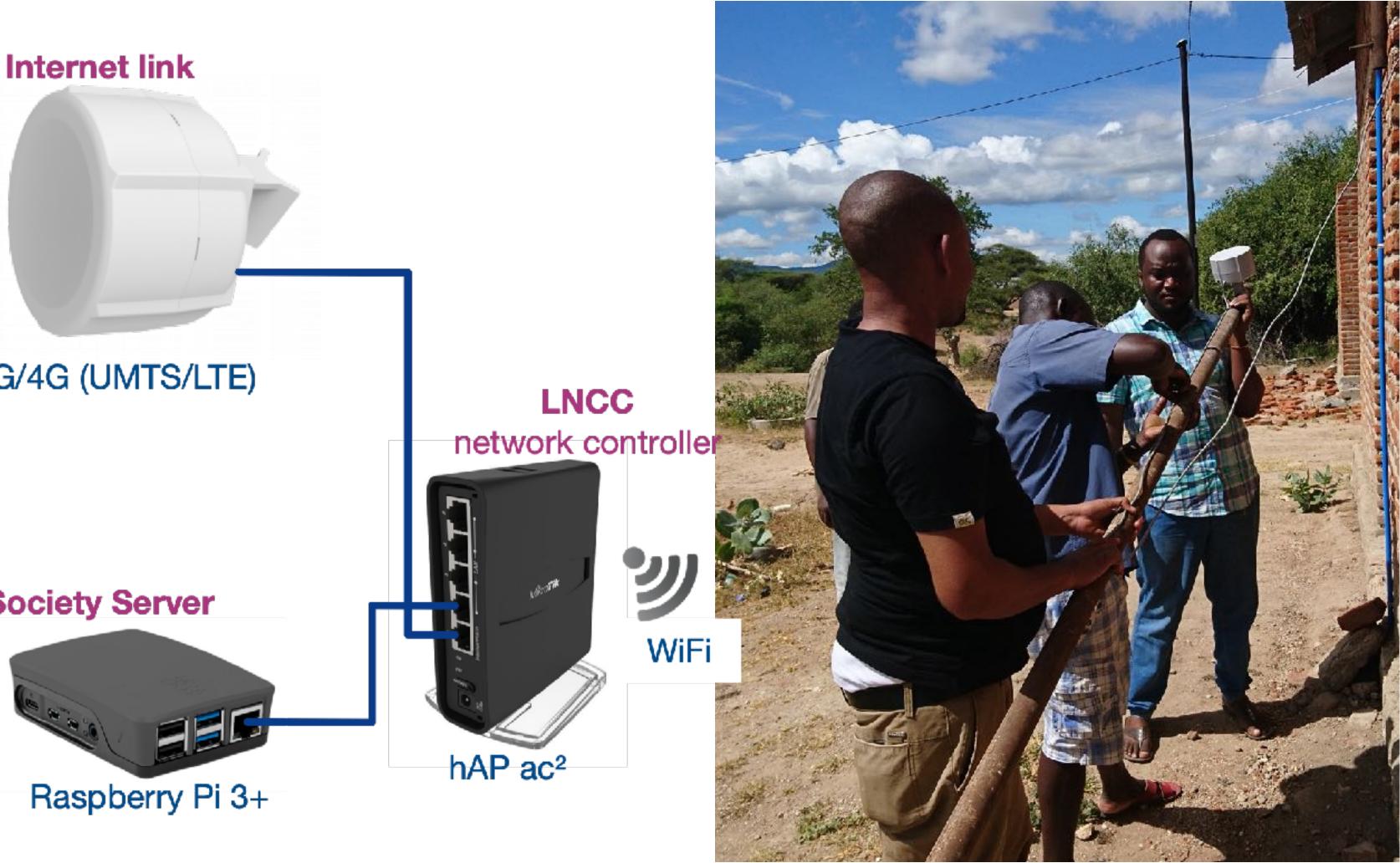


Technology Used http://Solutions.BasicInternet.no





3G/4G (UMTS/LTE)

















Free access to information in Ethiopia

- Government Ethiopia Agreement
 - "free access to health & education"
 - Ministry of Health
 - Ministry of Education
- Ethio Telecom offers "zero rating"
 - Health (MoH): MoH.gov.et
 - Ephi.gov.et & Covid19.et
 - Education: National Digital Library NDL.ethernet.edu.et

follow-up from discussions after African Innovation Week (AI)





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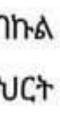
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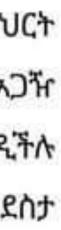
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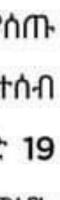






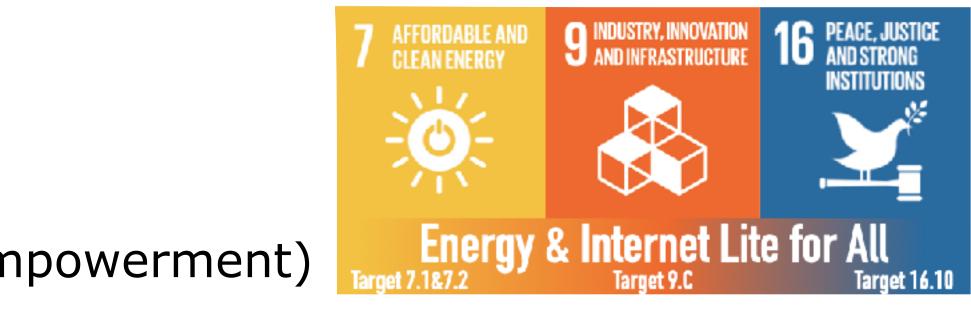






Next Generation Internet: Solutions for ~3.5 Billion non-digital people

- Value proposition:
 - Freemium access: Basic4All
 - Local empowerment, Relevant content (Village empowerment)
- Technology and Skills
 - Local Info Spots
 - Off-line broadband content
- Affordability & Regulations
 - OPEX <20 USD/month per school</p>
 - Public-private partnership
 - Free access to national knowledge portal







Search - Keyword, Phrase

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