

Ignite talk 6Oct2023

School Connectivity in Africa

-

“we help connecting the children of our world”

Josef Noll^{1,2}, Catherine R. Kimambo^{2,3}, Sudhir Dixit²,
Wisam A. Mansour², Jonathan Muringani^{1,2}

¹University of Oslo, Department of Technology Systems

²Basic Internet Foundation, ³African Child Projects

Kjeller, Norway, m: +47 9083 8066, e:
info@basicinternet.org



“Our mission is to improve the life of **every human** through **access to basic information** on the Internet....”

motivated by:

- Professor at Uni Oslo - “Societal Security”
- Group leader at Telenor - “3G: Always online, always connected”
- European Space Agency - “Earth Observation & Climate Change”
- SIEMENS - “Chip design”



From Academia to Mobile Broadband

understanding the business

Jun1973: NO (Kjeller) & GB connected

Jun1986: RARE/TERENA...GEANT (NRENs in Europe)

1993 - **privatisation** of 2G (GSM)

1999 - 3G (UMTS): 3 x ROI expectation, Uni co-dev

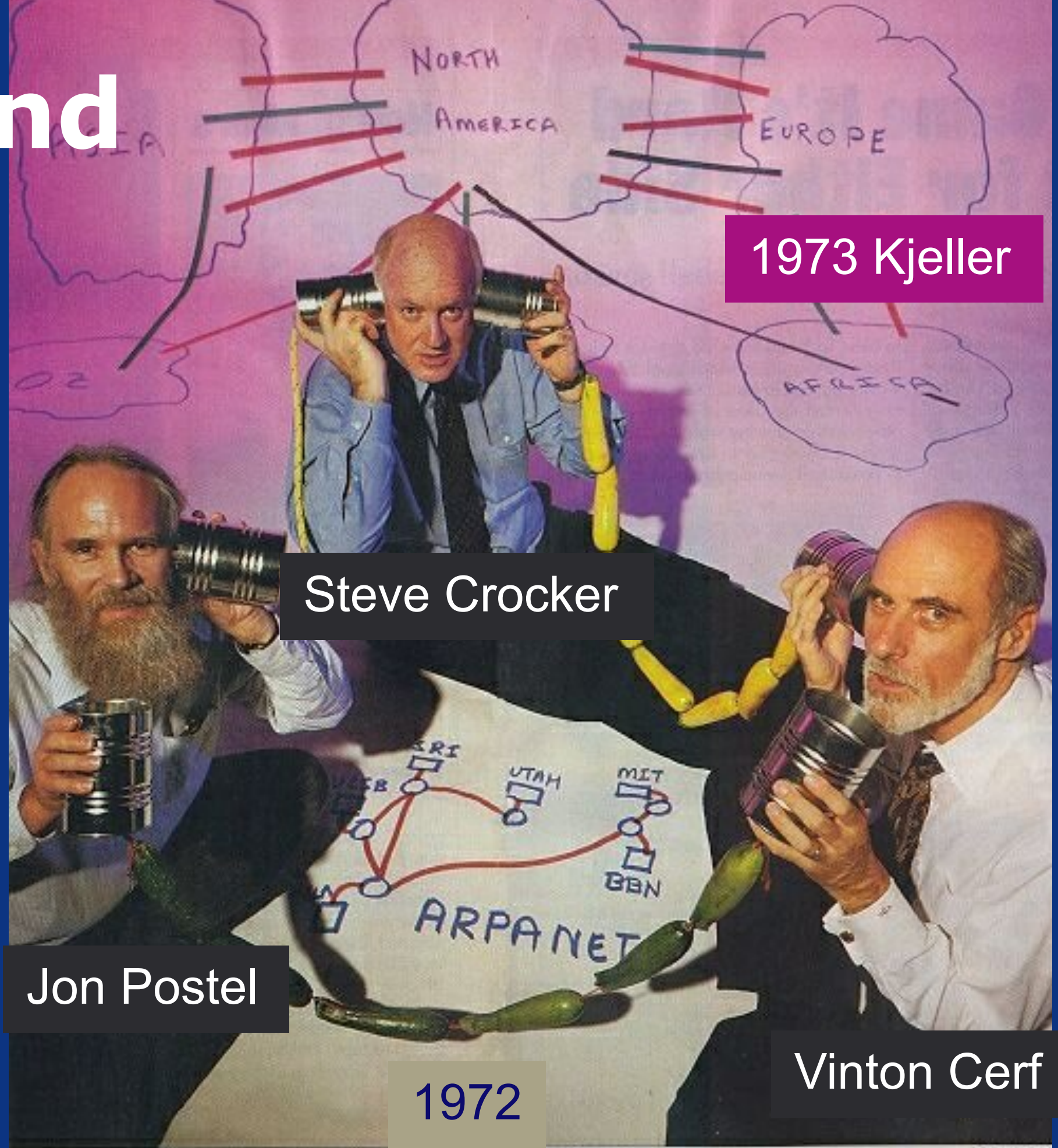
2004 - 4G (LTE): 120 km range, Supplier dev

Aug2003: Reykjavik “Cybersecurity”

Mar2023: “Societal Security” - Digital Equity - #ConnectTheFuture



Vint & Sigrid, Nordunet 2003



1973 Kjeller

Steve Crocker

Jon Postel

Vinton Cerf

1972

Source: <http://www.michaelkaul.de/History/history.htm>

“The mobile Internet is purely commercial”

How can we “Connect The Future”?

and what are the roles of the Universities

A white outline map of the African continent is positioned in the upper right corner of the slide, set against a dark blue background.

**Empower
my dreams**

“Internet had the ability to dismantle
the divide.
Internet failed miserably, the divide
is bigger than ever.”
Kate Gilmore, Human Rights, UNOG, 2017



What if ...

We revisit access

We decentralise the Internet

We use Universities to connect

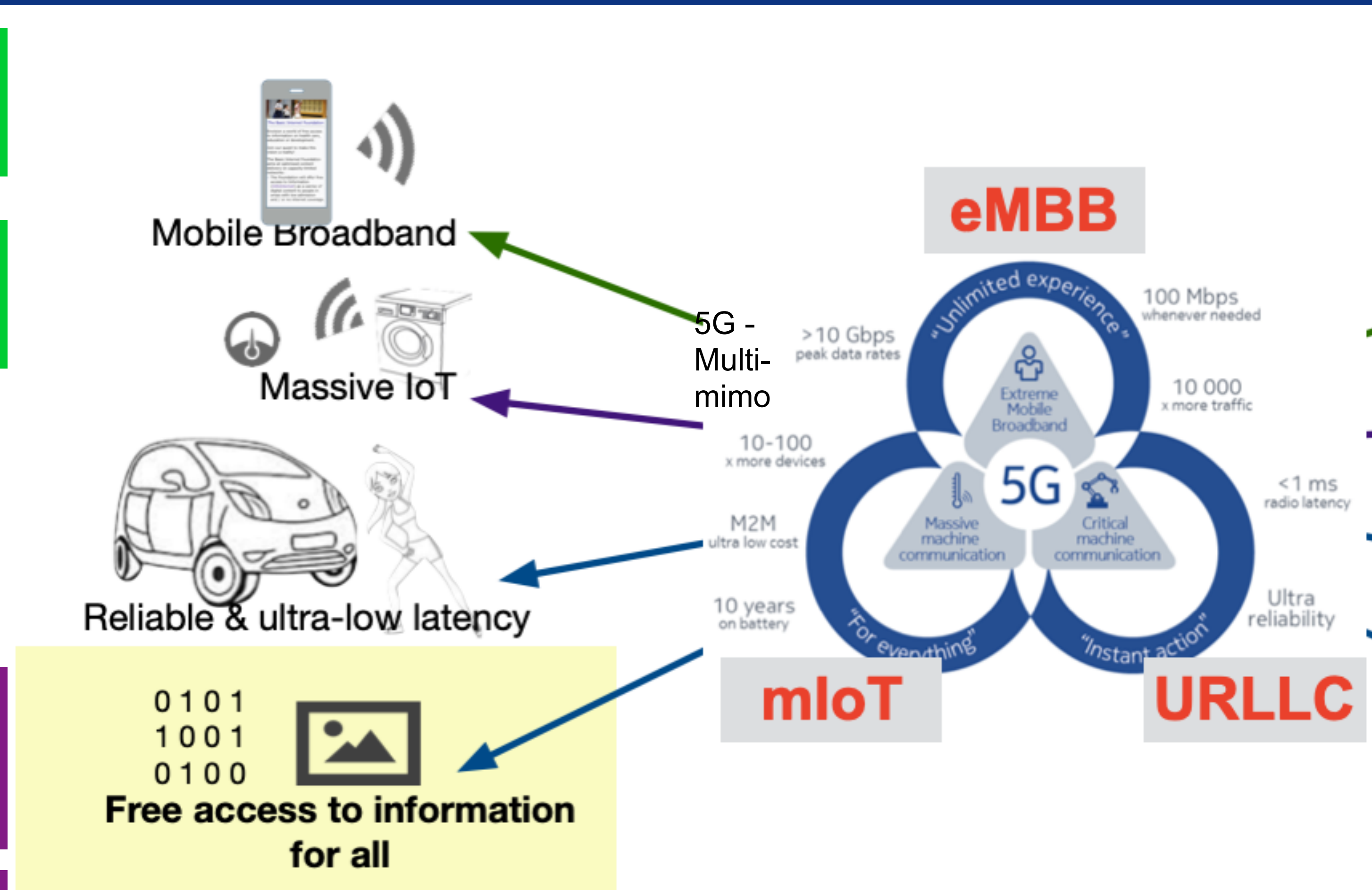
Revisit Access

Road model: pedestrians & cyclists

Digital pedestrians, digital cyclists vs digital cars (broadband)

Internet Lite
as a Digital Public Good (DPG)?

& 5G large cells



The Game Changer



205 schools
(Q2.2023)

184 000
students
(Q2.2023)

USD 1200
per school
ready installed

Participation
in the Internet
Society

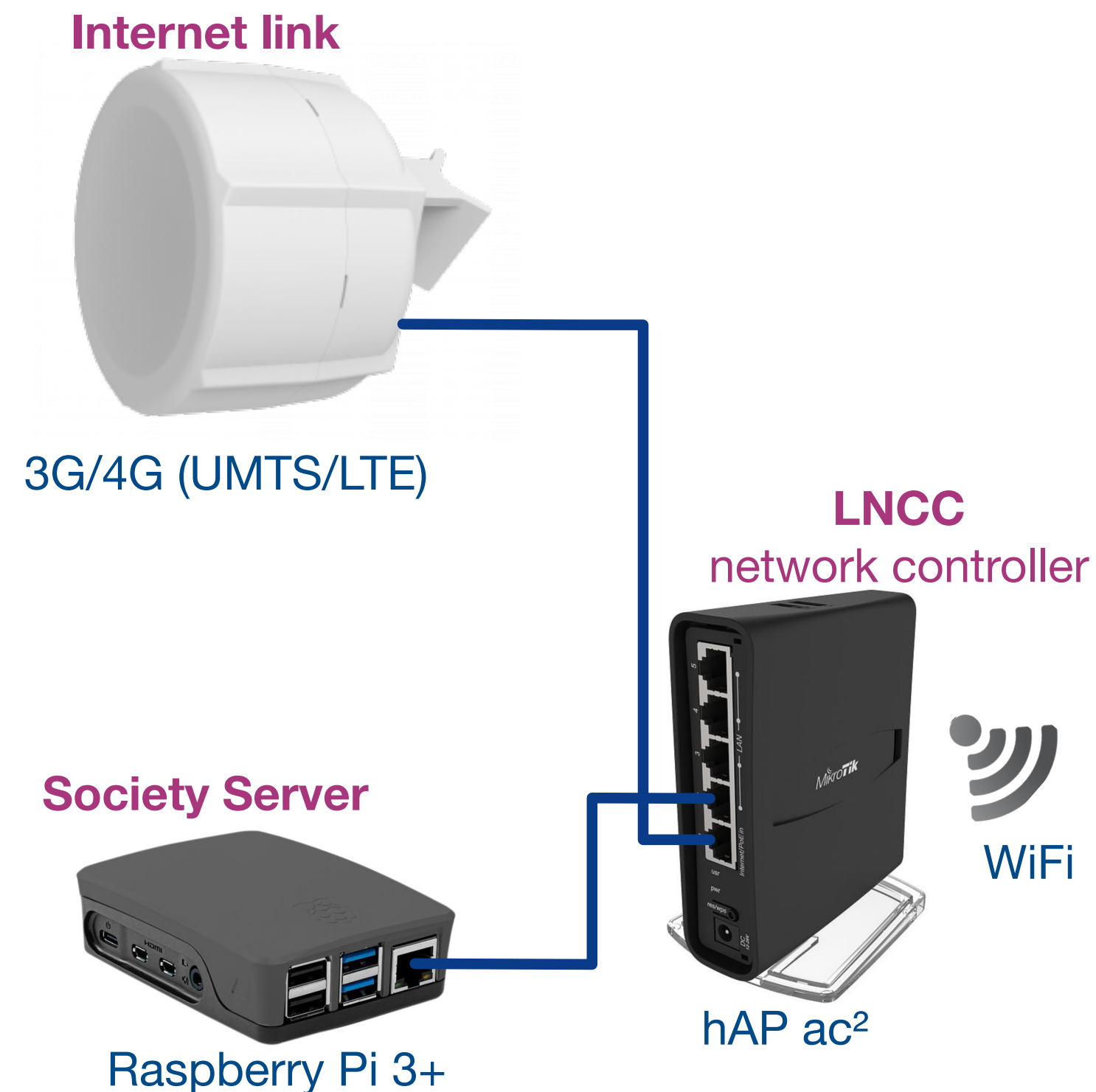
Changing
the lives of
many





Solving the Access

- wireless information spot (InfoSpot)
- Reaching 20 km+ to mobile network
- Affordable solution: OPEX <20 USD/month





“Connect The Future” Selela Market Place



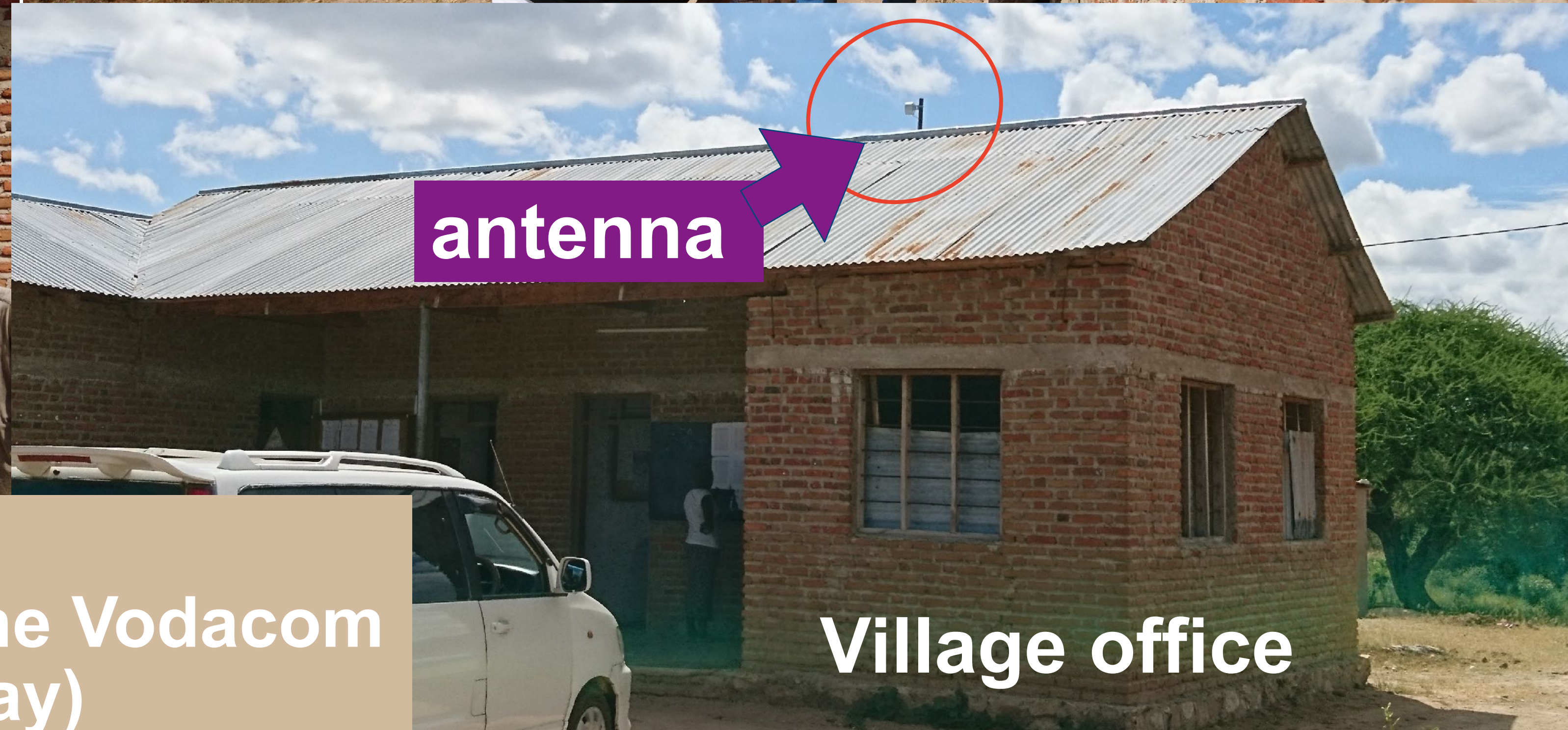
- Antenna in 6 m height
- Reaches Tigo tower > 20 km away



antenna



“Connect the Future” Izazi



Installation time: 1,5 h
catching the signal from the Vodacom
tower in Migoli (~10km away)

Energy, Access & Information



antenna



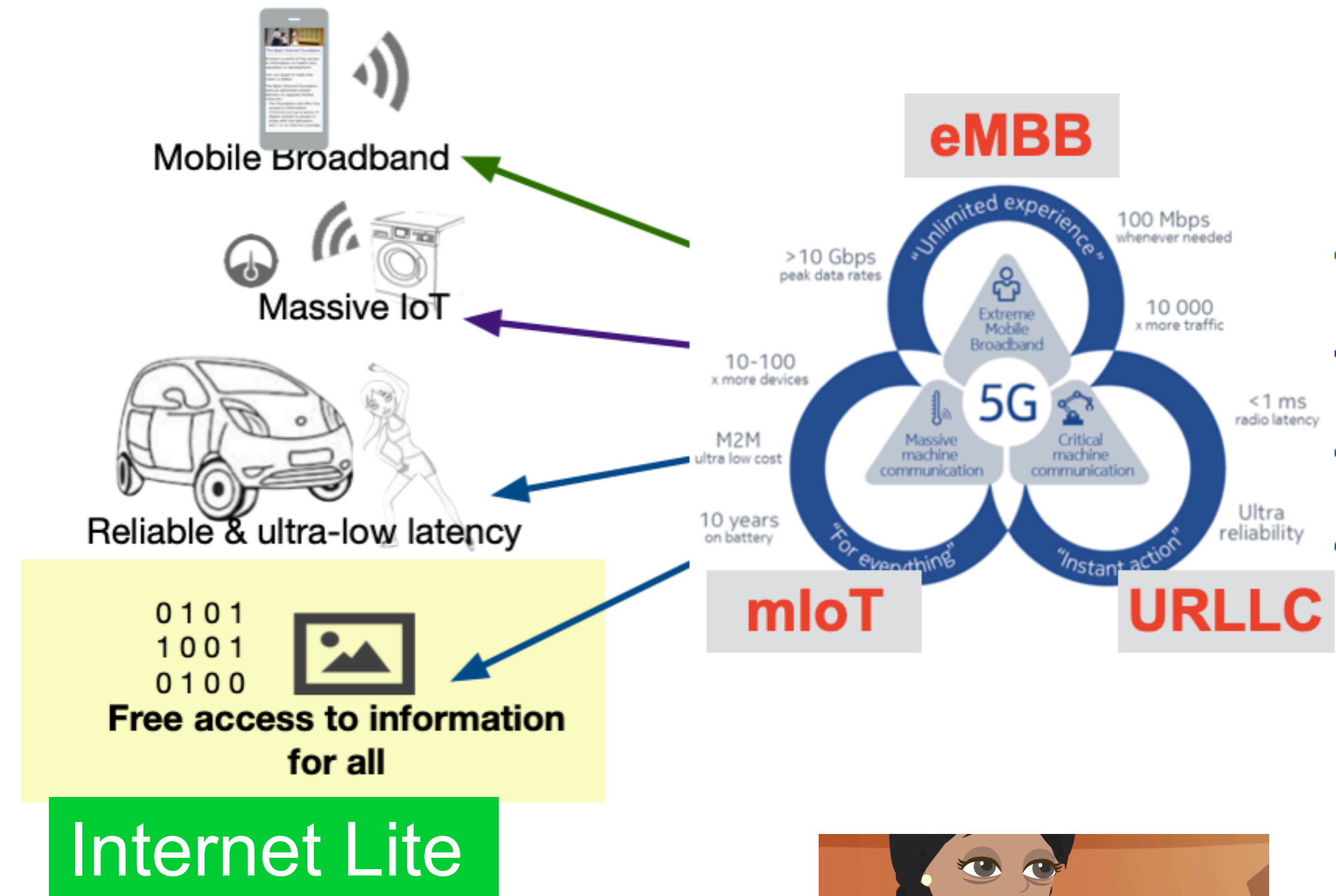


Connect The Future

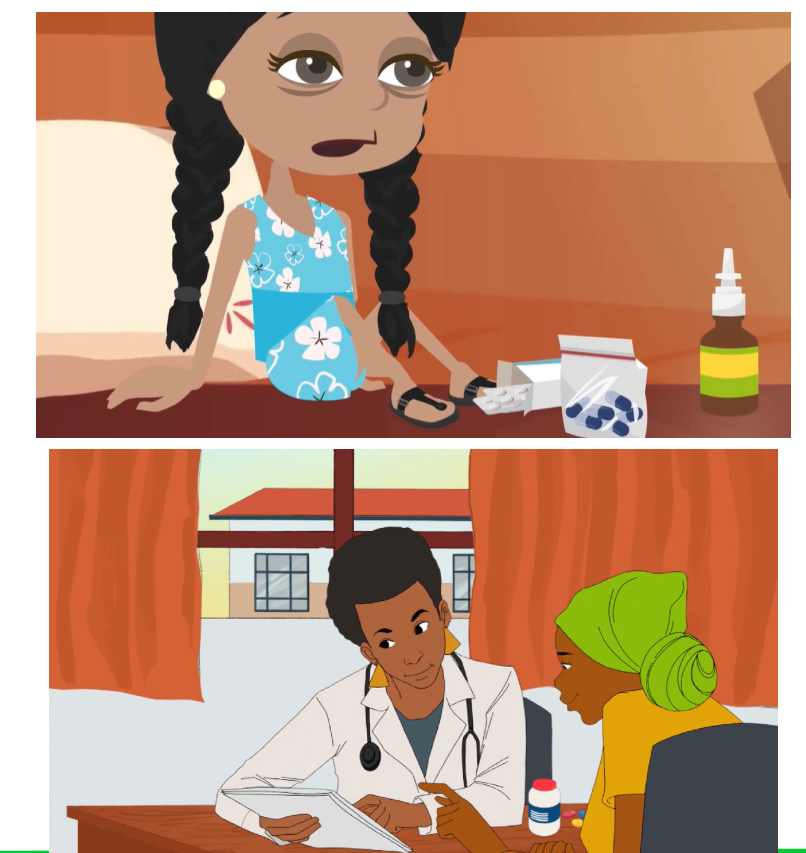
World Summit of the Information Society - WSIS 2023



Doreen Bogdan
Secretary General ITU



Community Learning & Living Labs (CL3)





Forskningsrådet
The Research Council of Norway



MAKERERE UNIVERSITY



PARTNERS IN EDUCATION
ETHIOPIA



Rotary
Distrito 4400, Ecuador
Zona 23B, 2019-2020

