

UNIVERSITY OF OSLO

Digital Cooperation and
Diplomacy, 6Dec2022

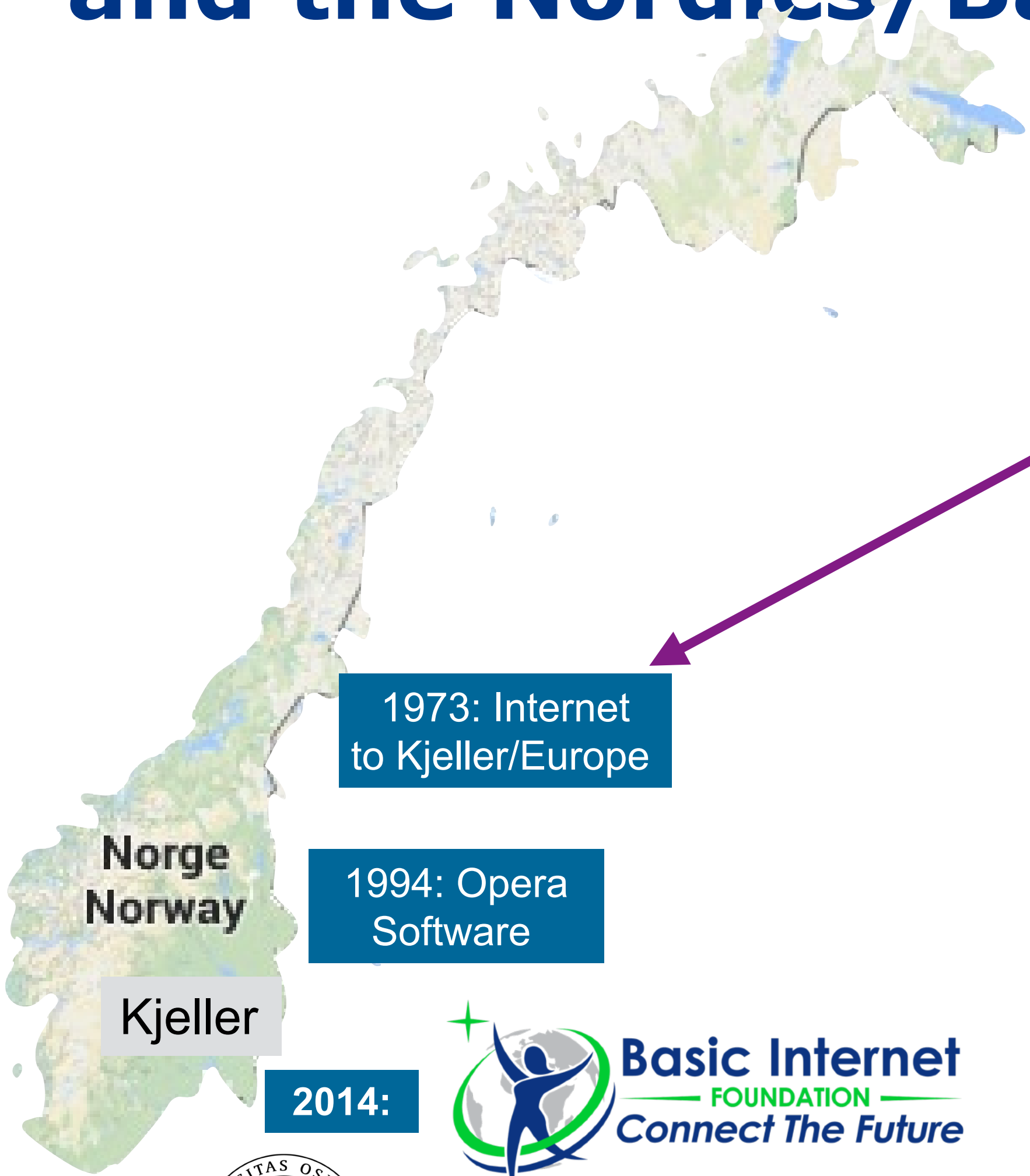
Africa and the Internet

Josef Noll
Professor
Department of Technology Systems

UNIVERSITY
OF OSLO



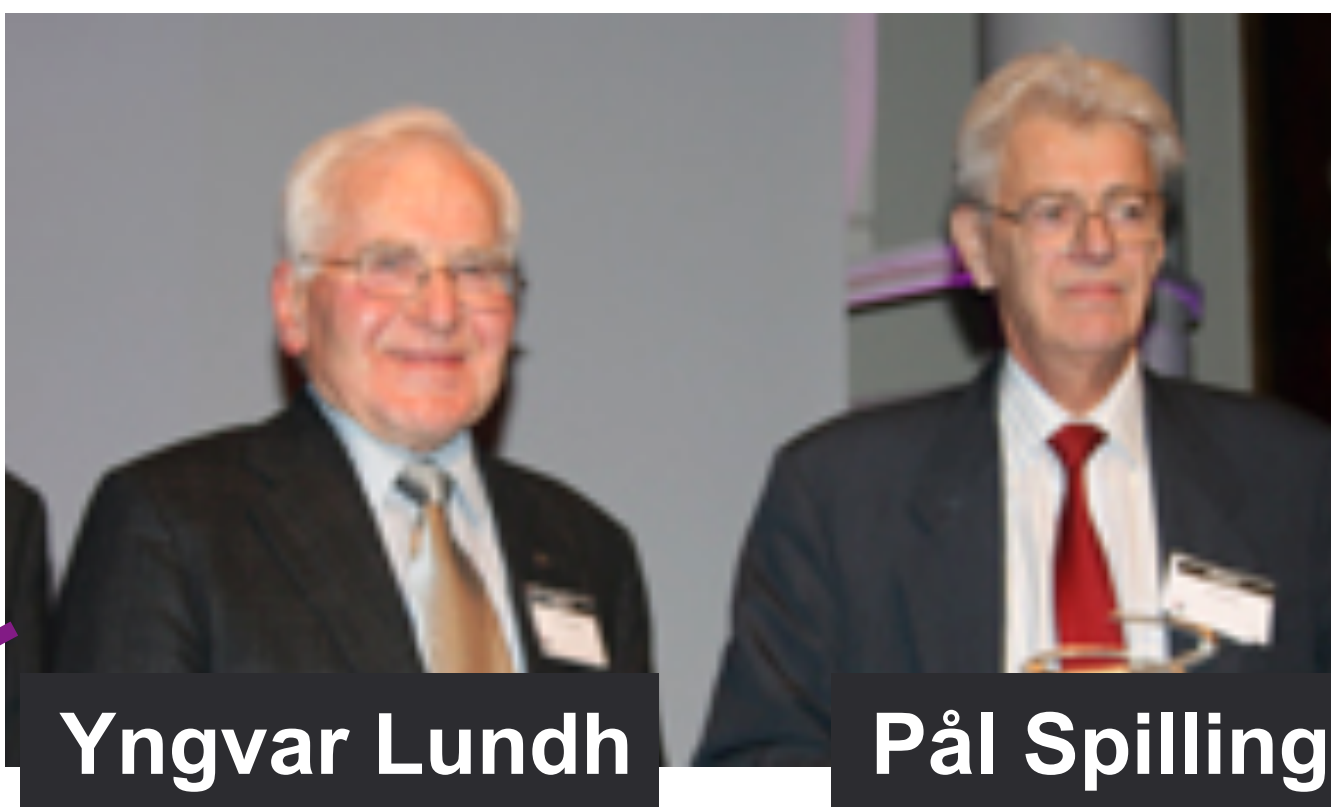
Inclusive digitalisation in Norway and the Nordics/Baltics (N8)



1973: Internet to Kjeller/Europe

1994: Opera Software

2014:

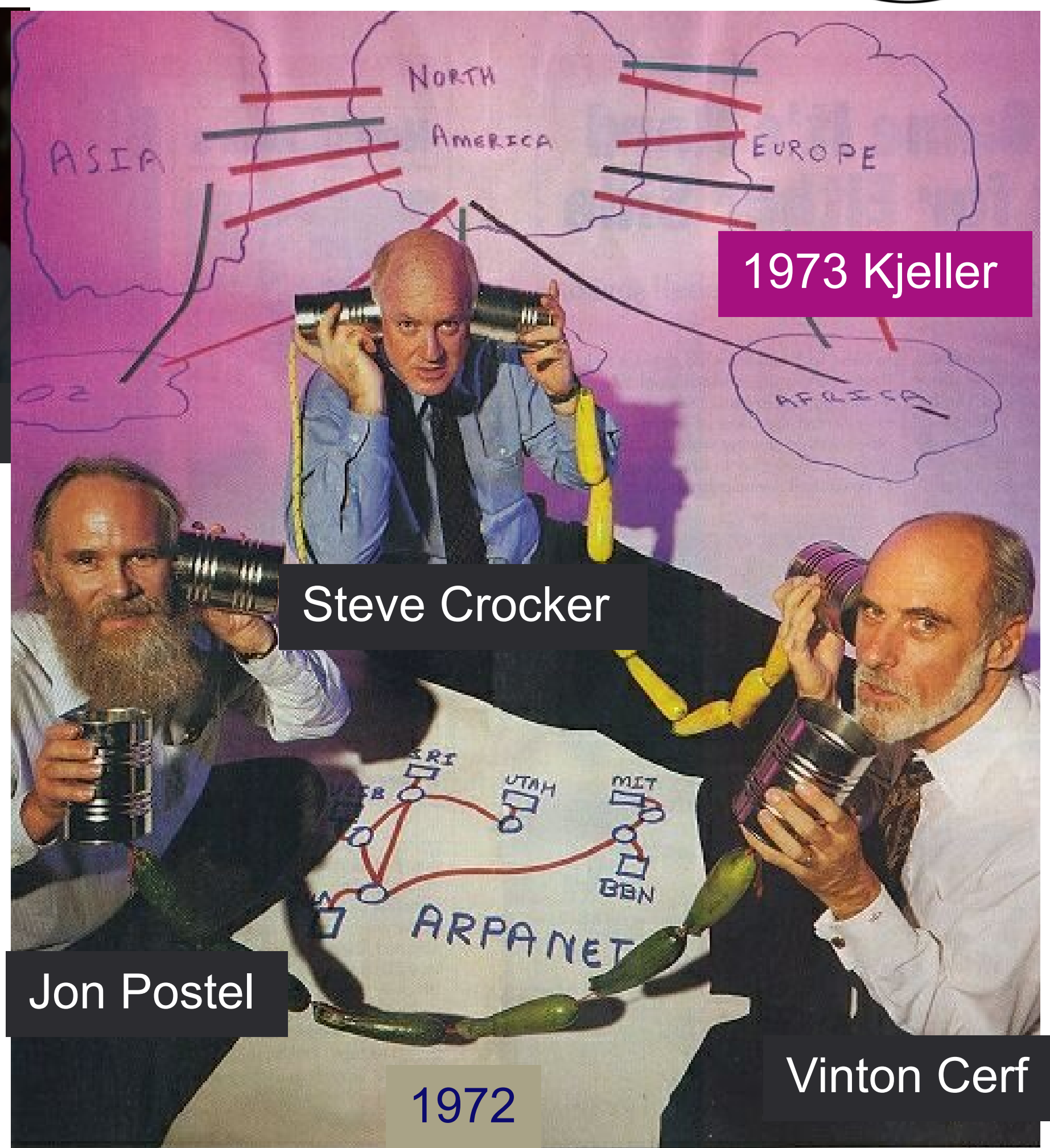


Yngvar Lundh

Pål Spilling

Nordics & Baltics (N8)

- php, OpenSource, Linux, Skype, Spotify
- Opera Software, FAST search
- Nokia, Ericsson
- GSM
- GovStack.global, X-Roads



1973 Kjeller

Steve Crocker

Jon Postel

1972

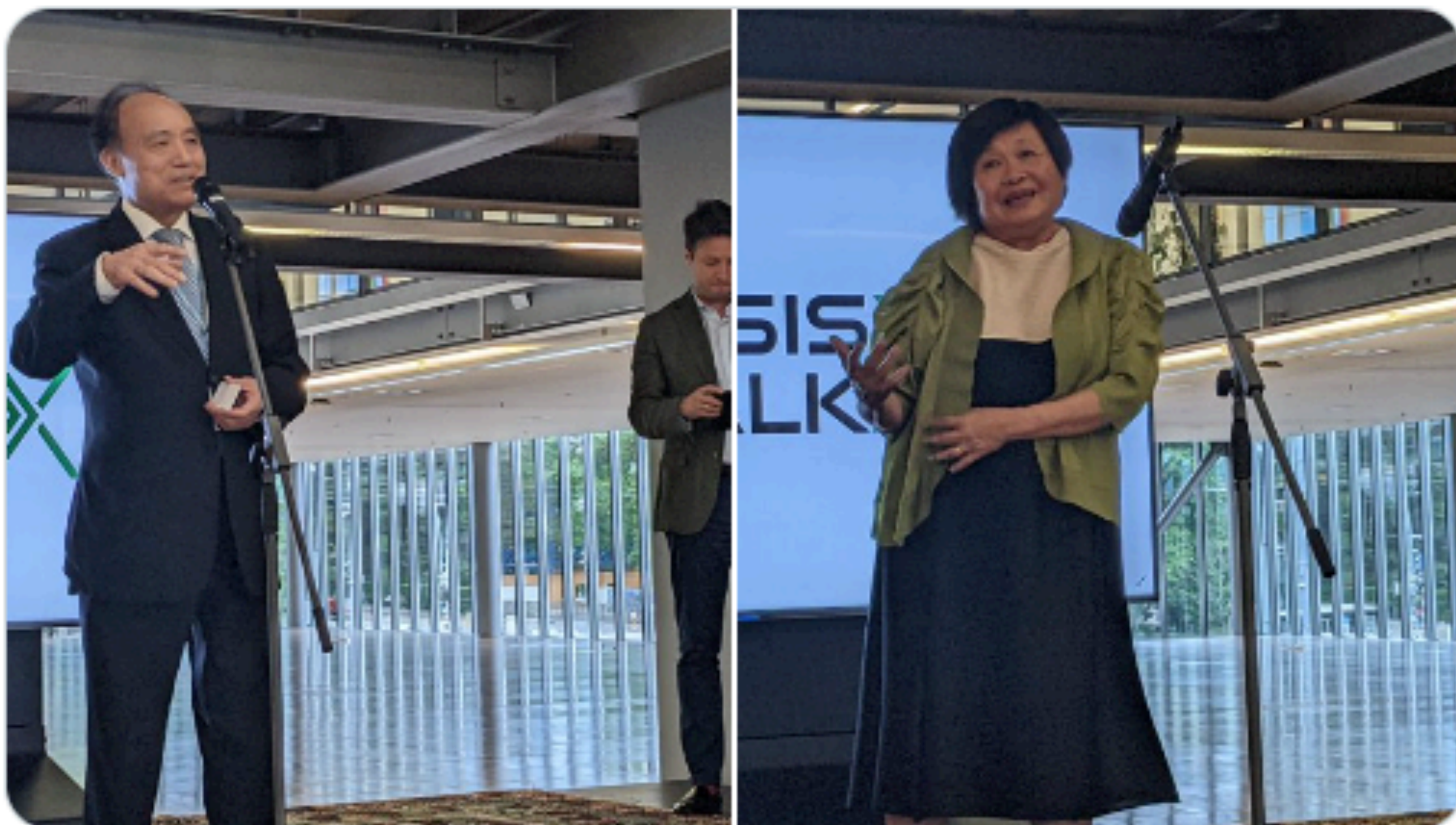
Vinton Cerf

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

How can we “Connect The Future”?

Josef Noll @josefnoll · Jun 2

Amazing opening by @ITU @ITUsecGen Houlin Zhao, setting the scene for connecting every single human by 2030, and @meilinfung, addressing the history of the Internet and #NRENs to connect schools. We're in @CateKimambo @RosalynnMworia @UcsafT @AheriNet @cisskisumu @WSISprocess





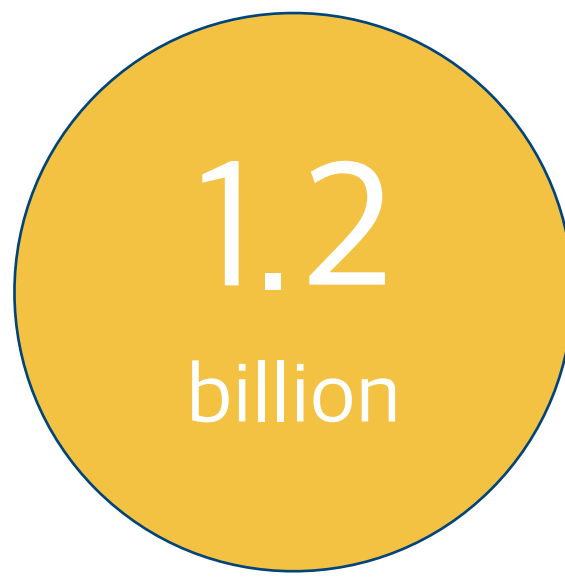
Energy & Digital, enablers for the SDGs

7 AFFORDABLE AND CLEAN ENERGY

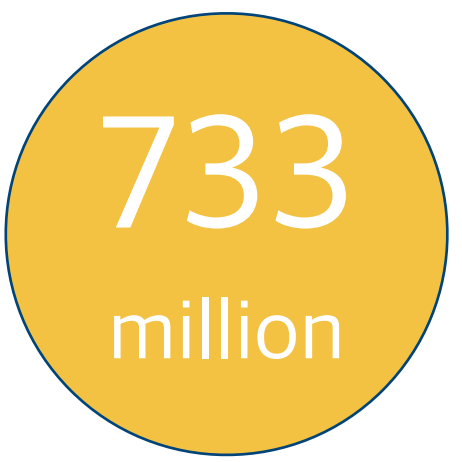


People without electricity

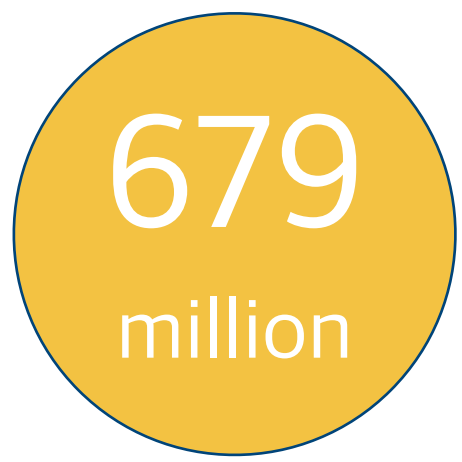
SDG 7.1 calls for universal access to ... energy by 2030



2010



2020



2030 (trend)

[WorldBank 2021]

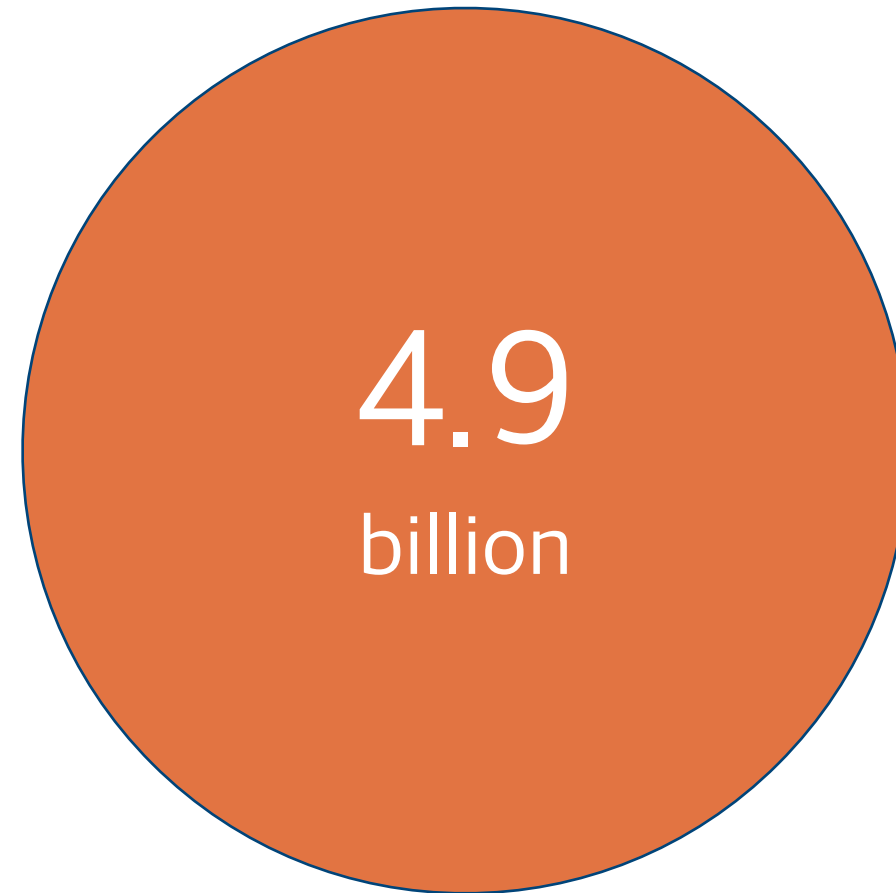
<https://www.worldbank.org/en/news/press-release/2021/06/07/report-universal-access-to-sustainable-energy-will-remain-elusive-without-addressing-inequalities>

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

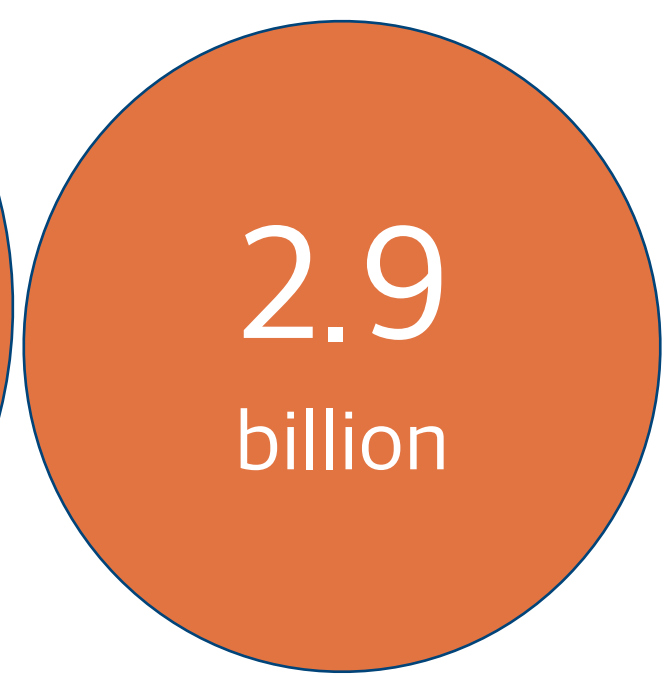


People not using Internet

SDG 9c calls for universal, affordable internet access by 2020



2010



2021
96% in dev countries

[ITU 2010, 2021]

<https://www.itu.int/hub/2021/11/facts-and-figures-2021-2-9-billion-people-still-offline/>



2030 (hope)



WSIS Forum 2022

Today's Internet failed to connect the unconnected

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

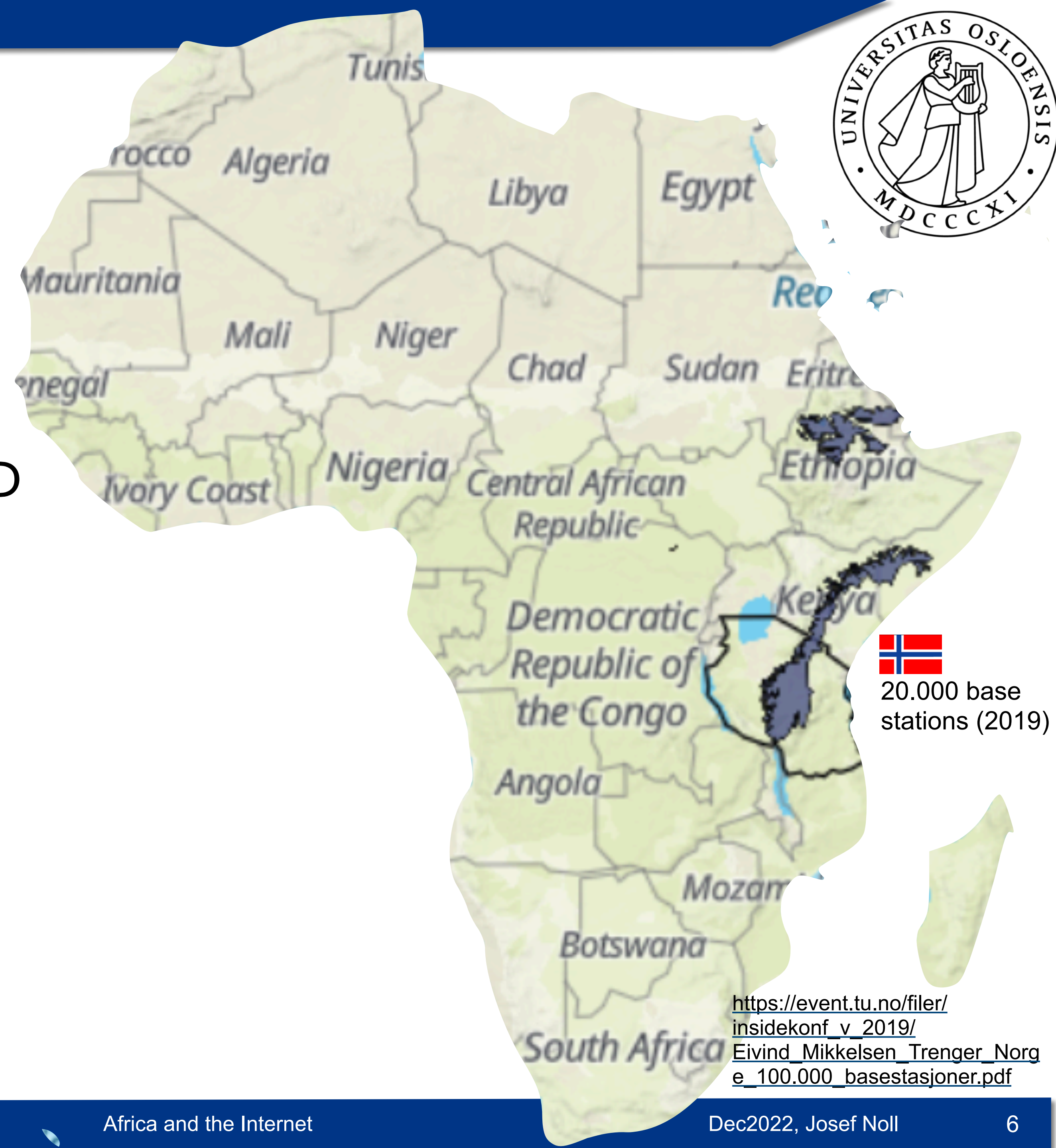
The Business Model of access to the Internet does not fit for SSA

→ Western World

- fixed access (home, work) - 45 USD
- mobile access - 20-30 USD

→ Africa

- large distances
 - expensive access (500 USD for 5 Mbps)
 - negligible fixed broadband
- ability to pay



What if ...

We revisit access

We decentralise the Internet

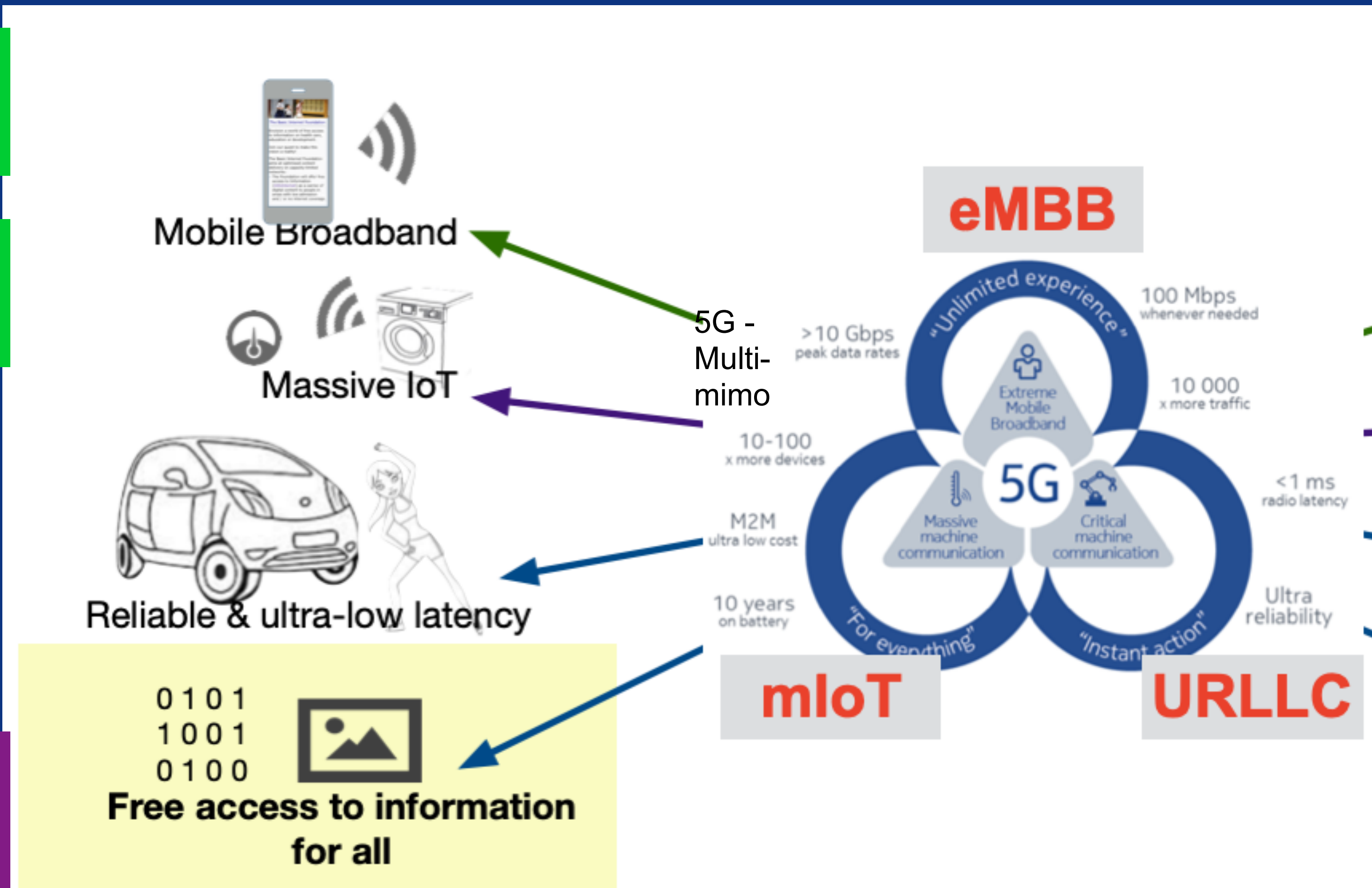
We use Universities to connect

Revisit Access

Road model: pedestrians & cyclists

Digital pedestrians, digital cyclists vs digital cars (broadband)

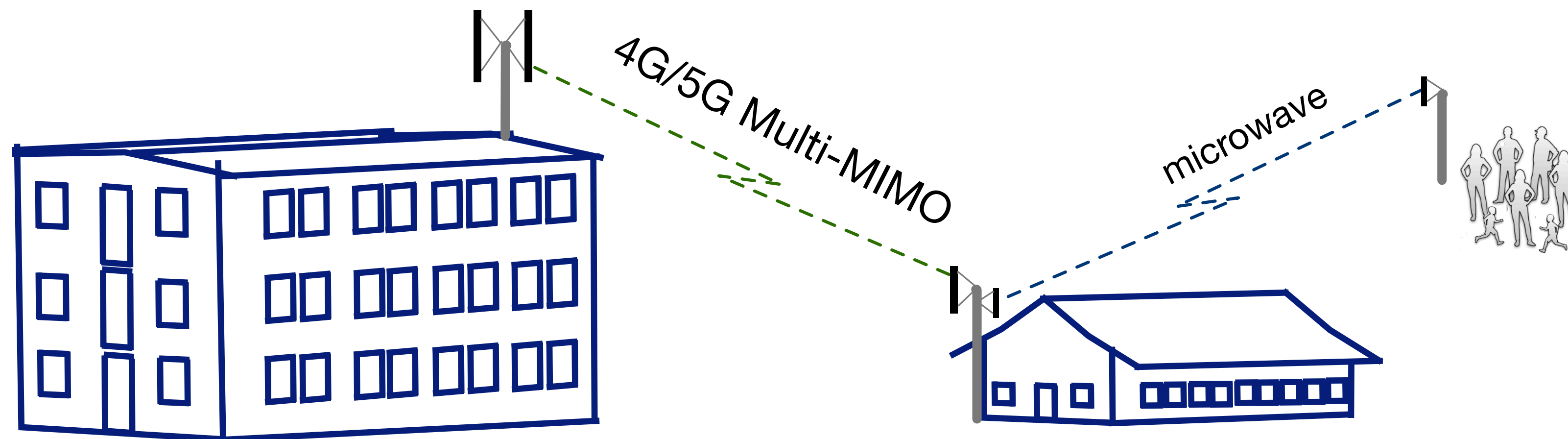
Internet Lite
as a Digital Public Good (DPG)?



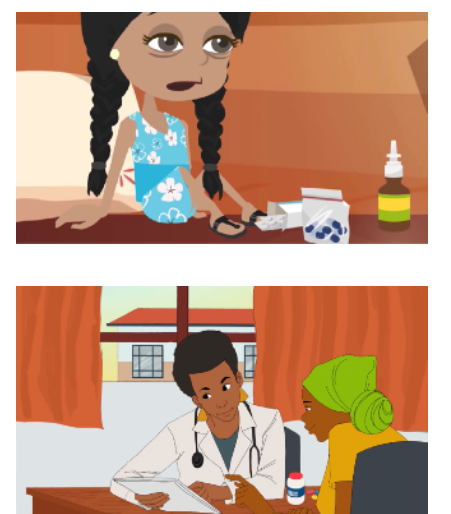
The role of Universities

“more toys for boys - or societal impact?”

- Inclusive and empowered (digital) societies
- From NRENs to Schools and Communities
- Regional Competence Centres (RCCs) for
 - the Digital Transformation
 - Connect Schools & Communities
 - practical experiences



InfoSpots for **CL&L**
 Community
 Learning &
 Living
 Labs



☰
🔍

AfricaConnect3 project is co-funded by the European Union. The AfricaConnect3 project receives funding from the European Union under Grant Contract DCI-PANAF/2019/411-583.

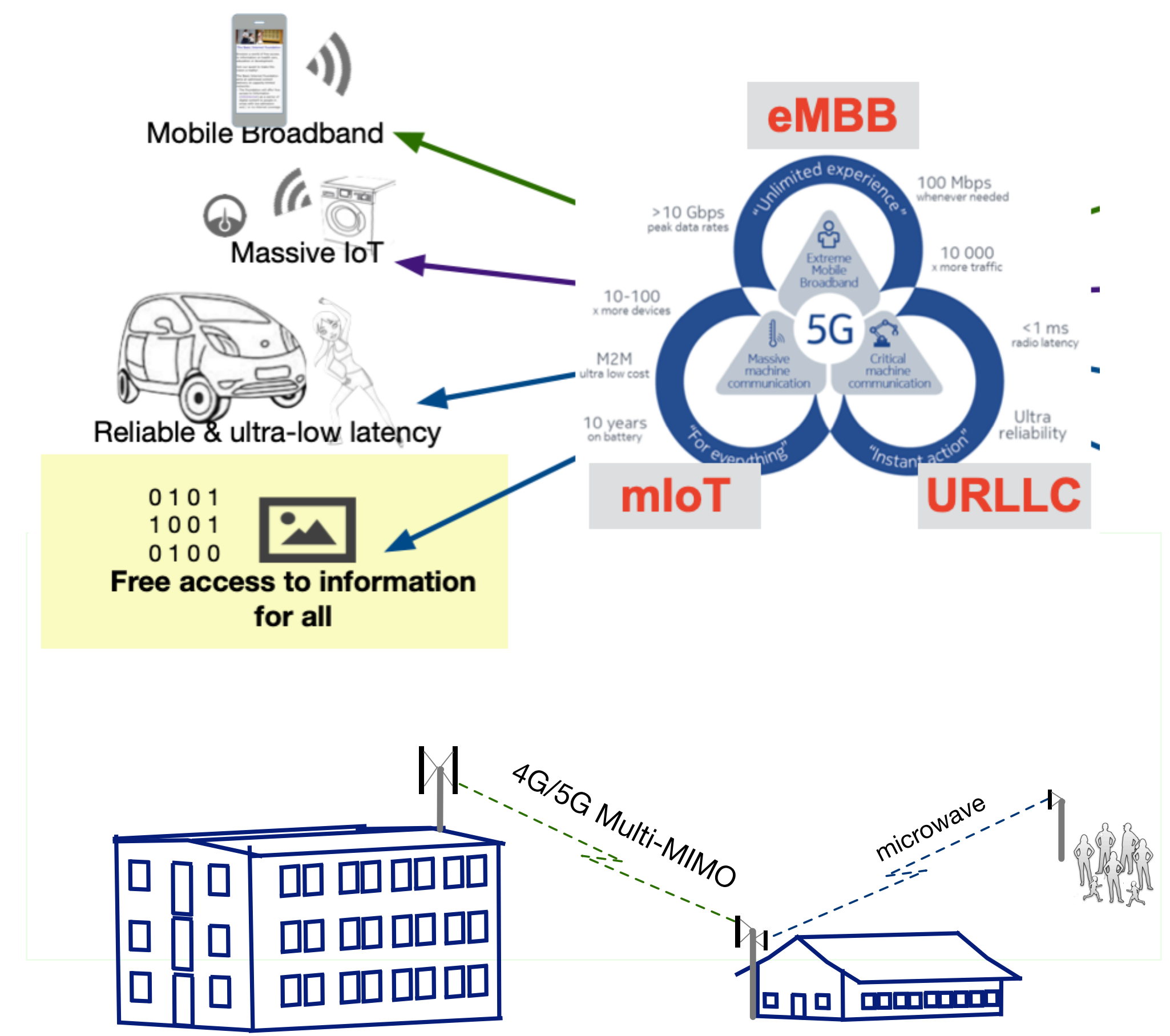
Conclusion

Partnership for Connectivity

2 000 schools
1 820 000 students
Q4.2024

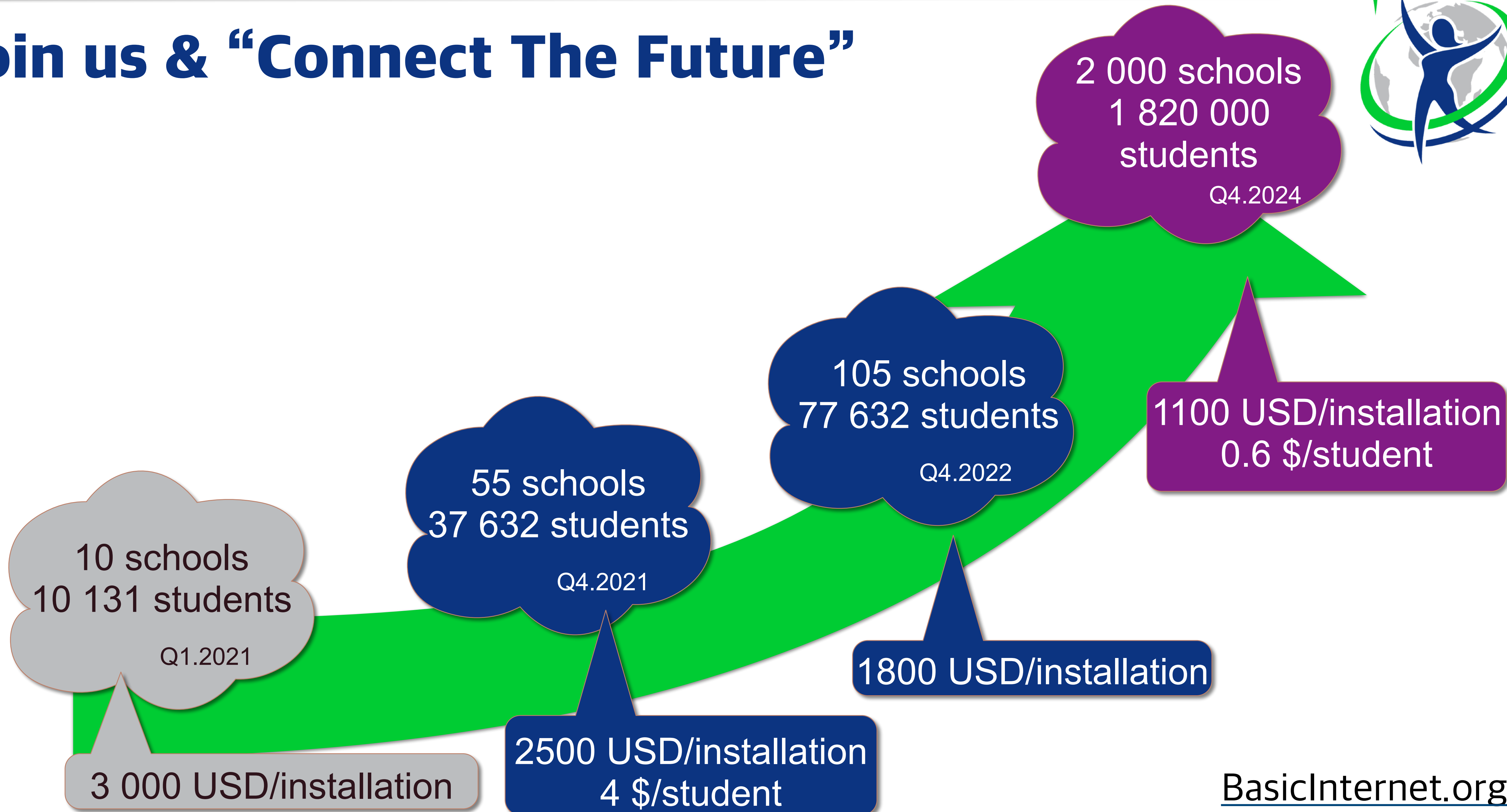


- ➔ Universities
 - Real-world knowledge
 - Decentralised, empower the communities
 - Knowledge4Africa, 5GforPeople
- ➔ Community Learning & Living Labs
 - from NRENs to Schools to CL&L
- ➔ Commercial actors
 - Mobile operators: Research with 5G as backbone
 - ISPs, satellite
- ➔ Government, ITU, UNICEF, UNESCO, ...
 - Framework conditions (spectrum, Internet Lite)





Join us & “Connect The Future”



BasicInternet.org