UNIVERSITY OF OSLO

IGF 5G & GenZ, 29Nov2022

Empowering Community through 5G and Learning Living Labs (CL3)

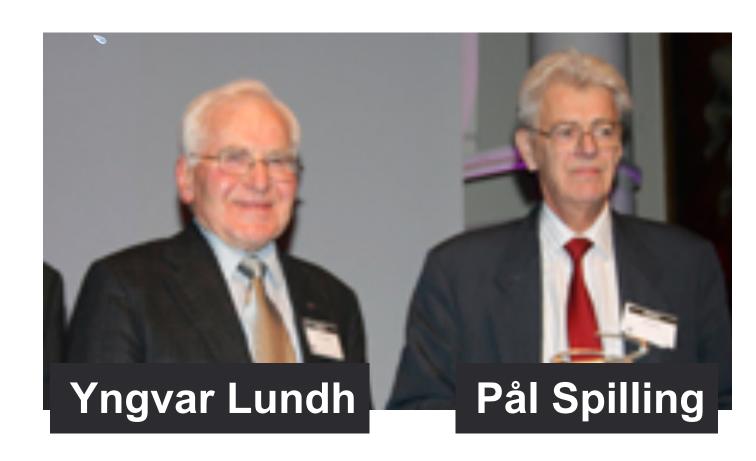
Josef Noll

Professor, Department of Technology Systems (ITS)
Lead Digital Global Health at the Centre for Global Health (CGH)

Tunis Algeria Libya Mali Niger Chad Sudan Nigeria Central African Republic Democratic Republic of the Congo Angola Mozan Botswana TAS O South Africa

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An inclusive Next Generation Internet



1973: Internet to Kjeller/Europe

Norge Norway

1994: Opera Software

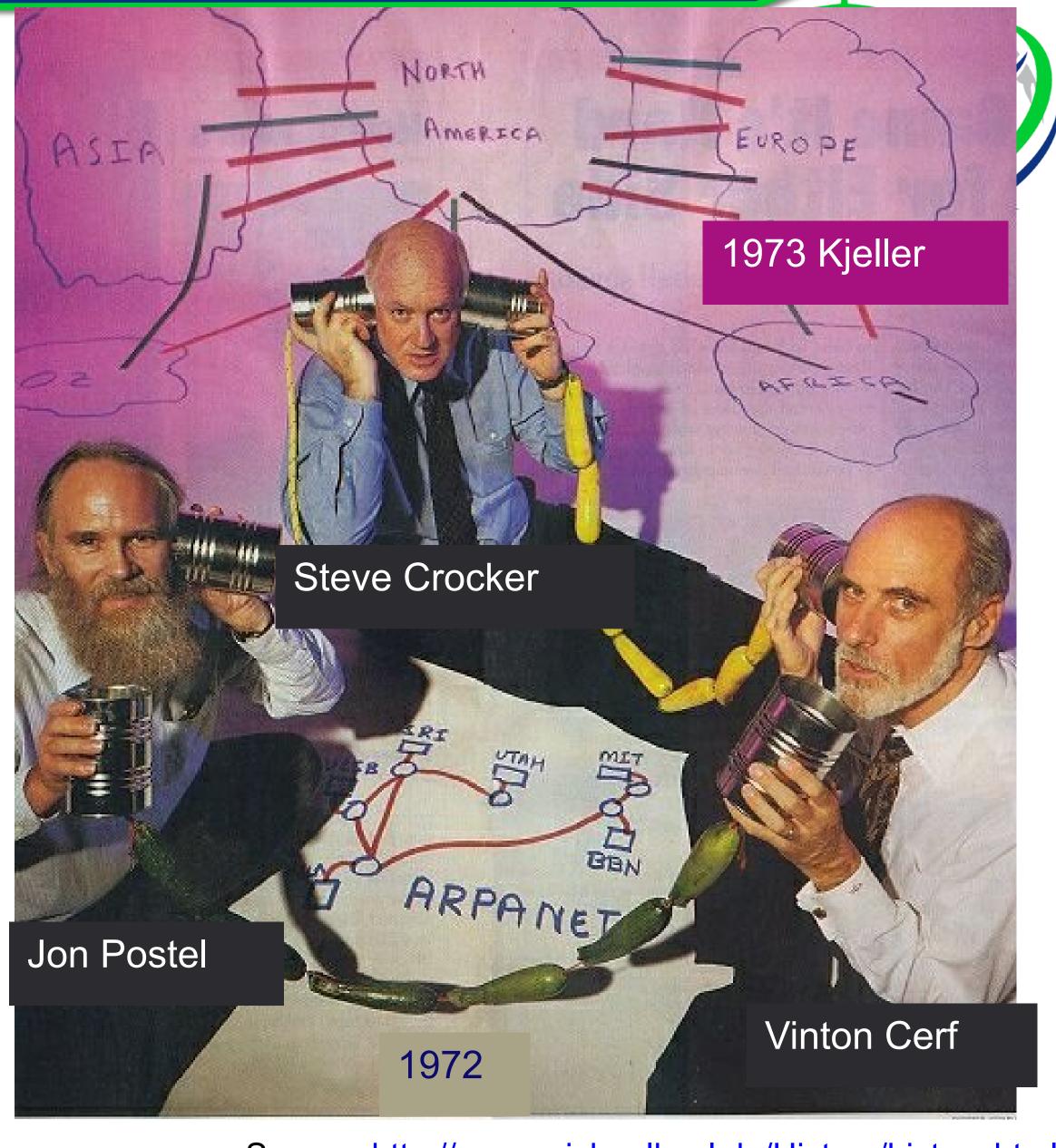
Kjeller

2014:







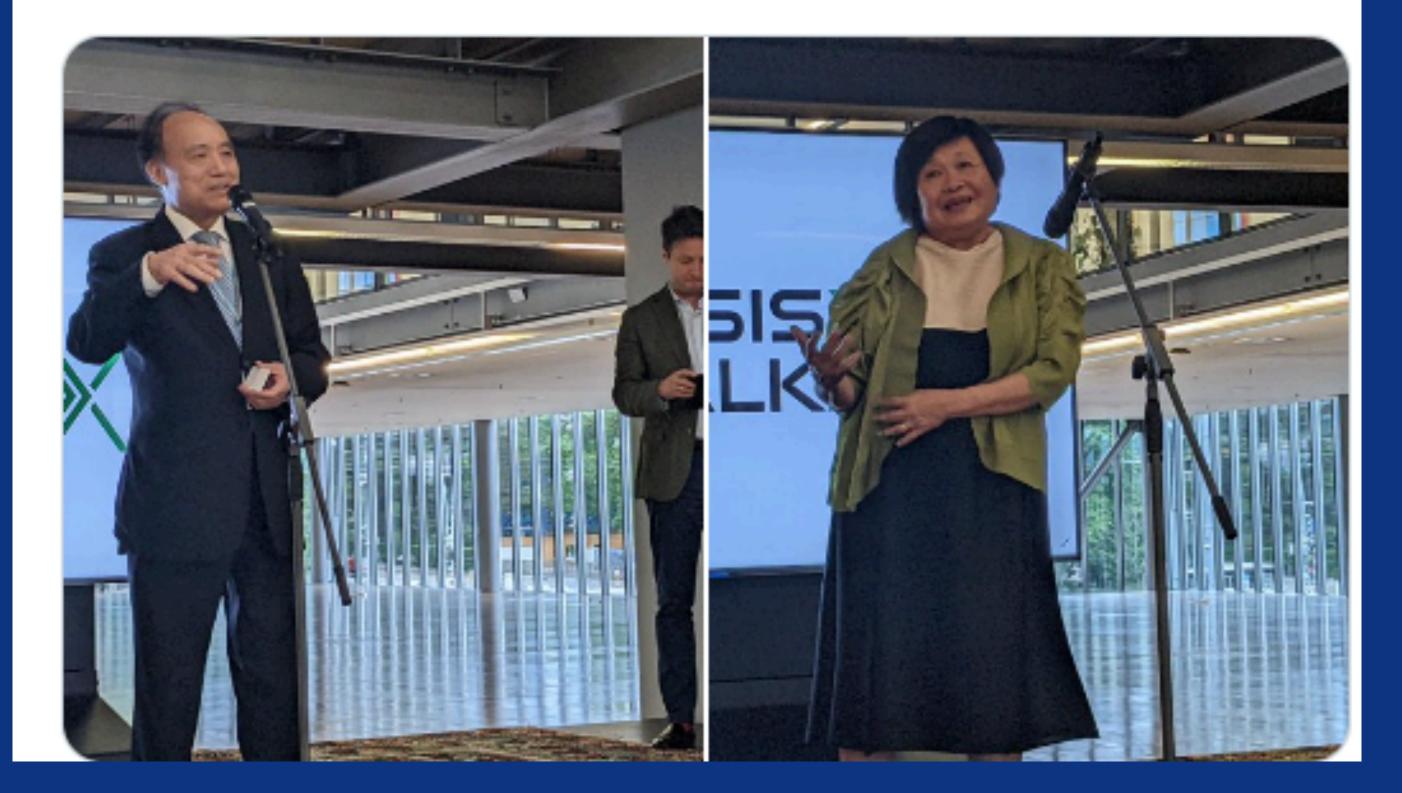


Source: http://www.michaelkaul.de/History/history.html

How can we "Connect The Future"? Specific focus: Girls & Women

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

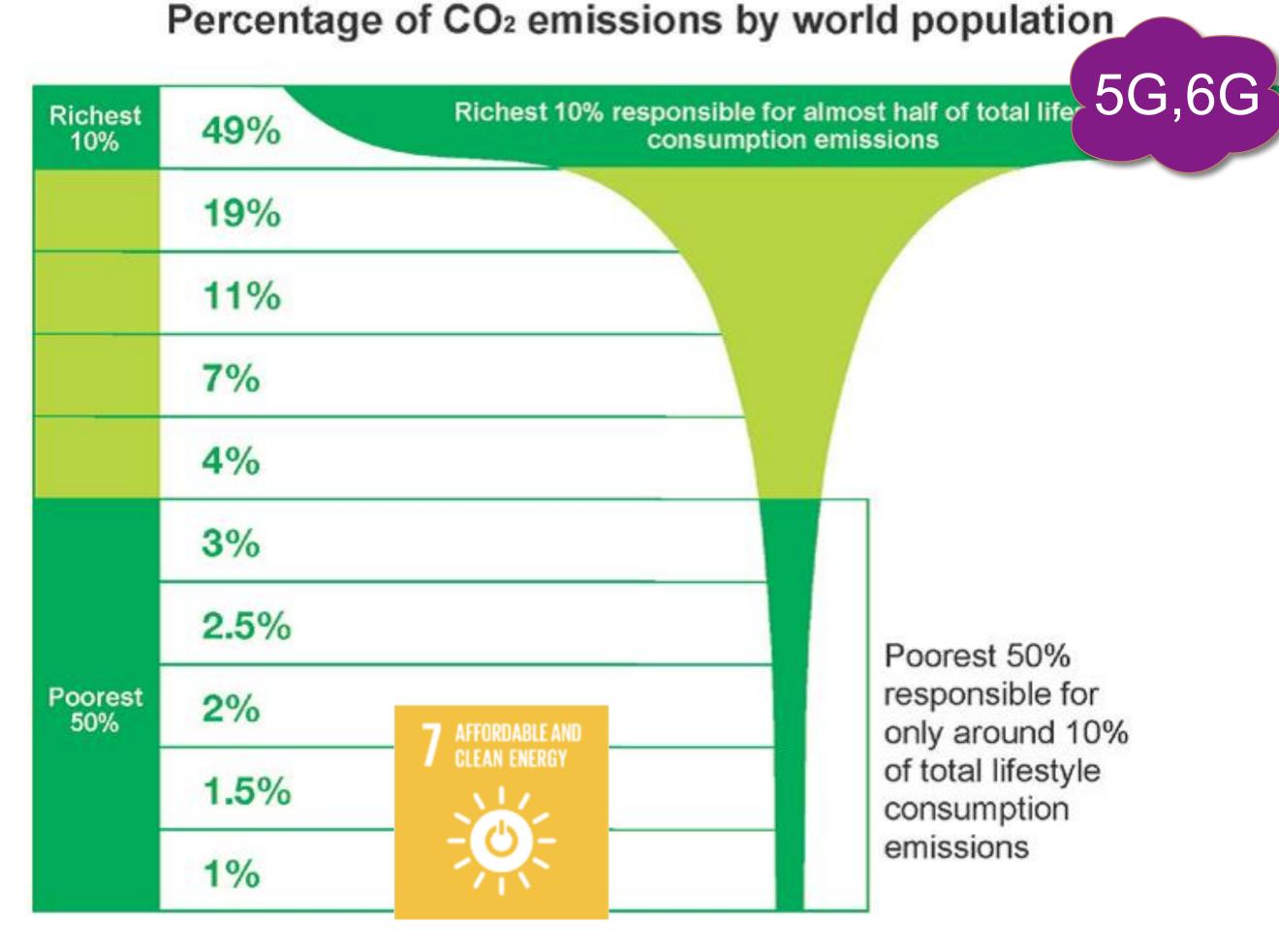


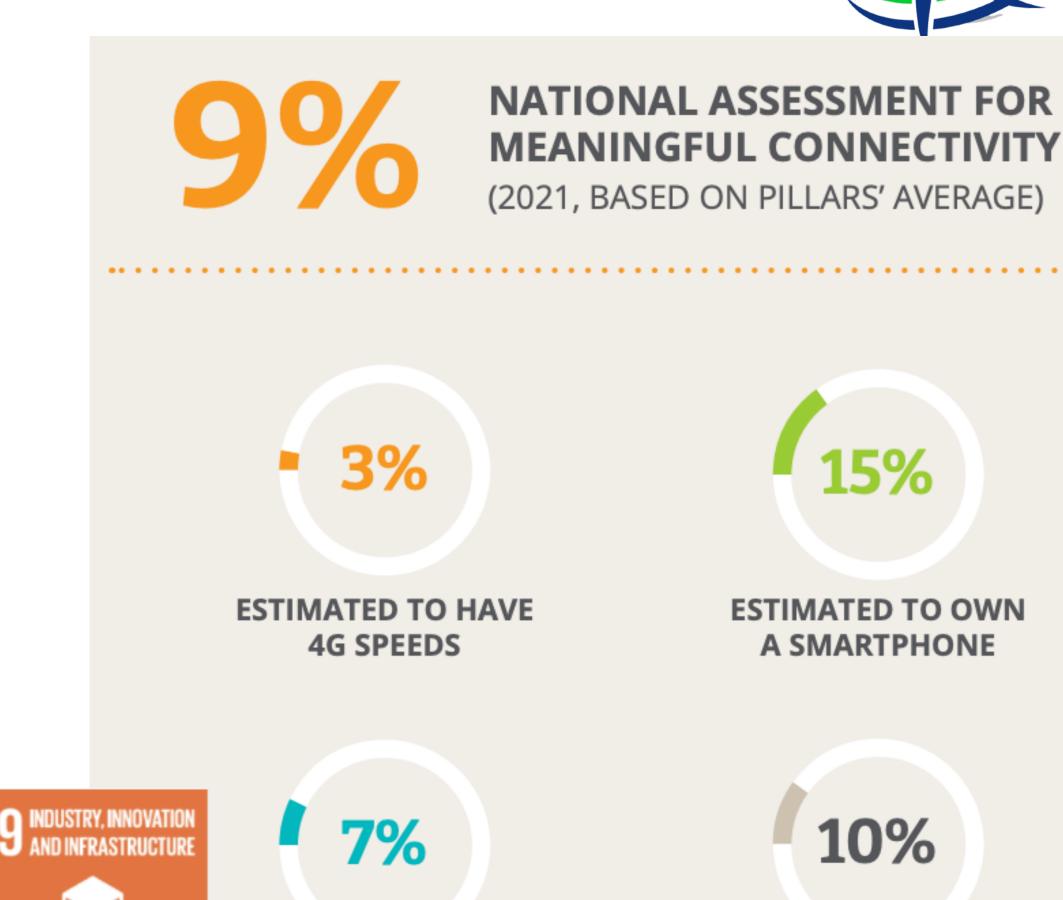


World population arranged by income (deciles)

Inequality in Energy & Digital Access







[Source: Oxfam.org, 2015]

[https://webfoundation.org/docs/2022/02/MC Rwanda FS Screen V1.pdf]

ESTIMATED WITH

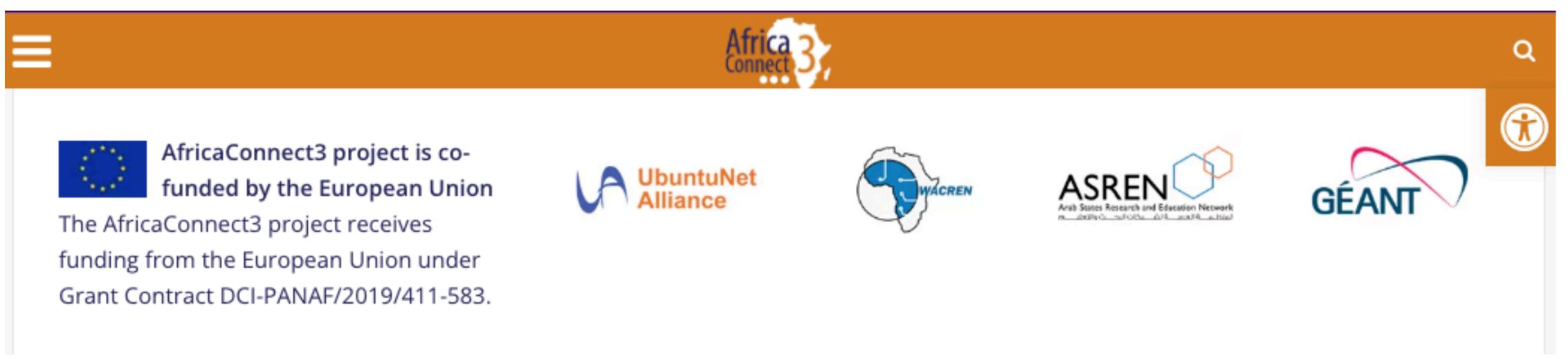
UNLIMITED ACCESS

ESTIMATED TO HAVE

DAILY INTERNET USE

Universities and National Research & Education Networks (NRENs)





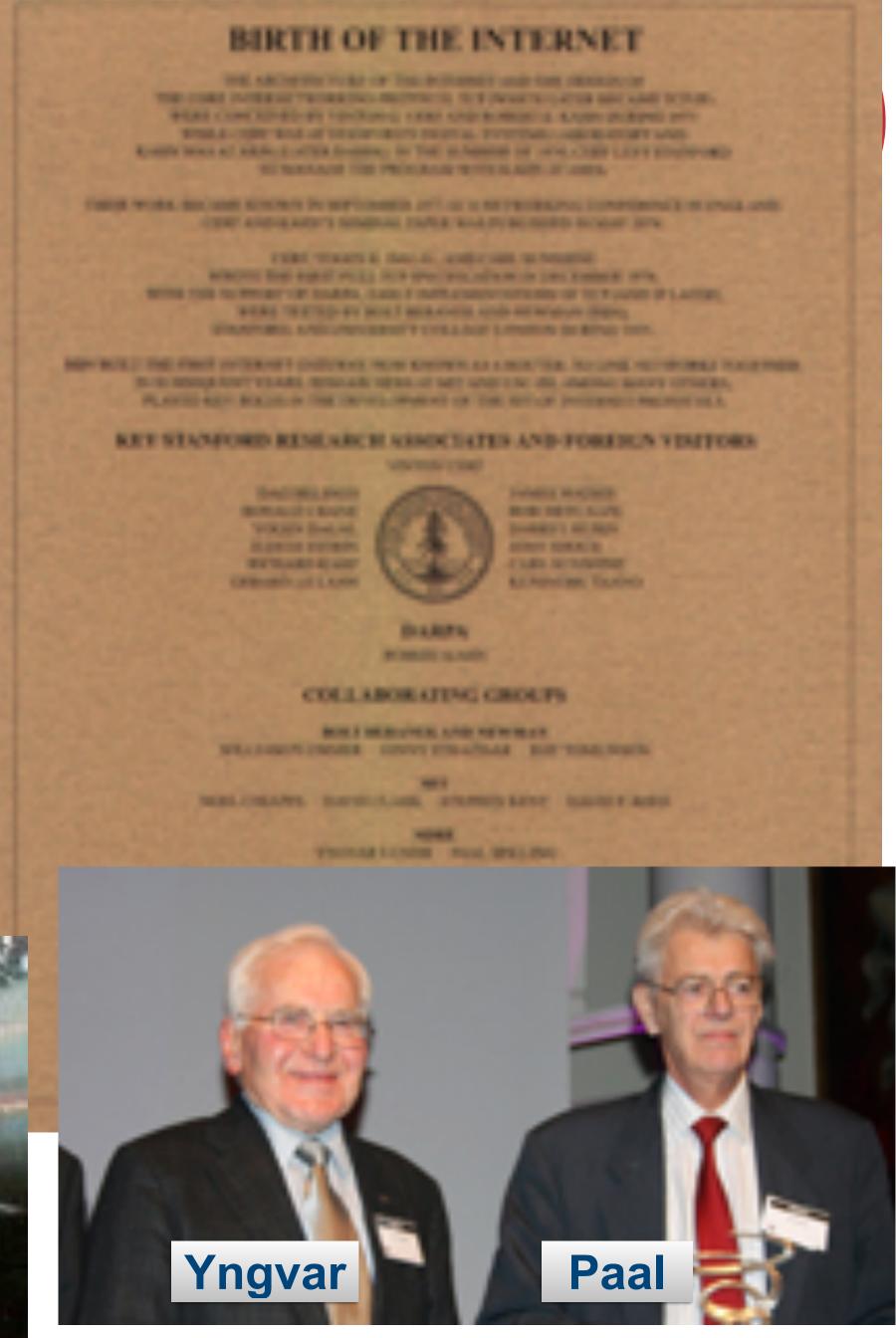
- Connecting Universities& Research
 - Digital Public Goods
- → Services: Eduroam
- Non-profitable services

- → DecentralisedInnovation Creation
- Base to IT industry

Internet and the Nordics

- 1. Arpanet Connection to Kjeller (June 1973)
- List_of_Internet_pioneers [Wikipedia]
 - Yngvar Lundh, Paal Spilling
- Application areas
- .php, OpenSource, Linux, Skype, Spotify
- OperaSoftware, FAST Search
- Nokia, Ericsson
- Telenor, TeliaSonera
- Mobile Internet & Digital
 Transformation
 - GSM
 - GovStack.global





6

The Guild (EU) - ARUA (Africa)

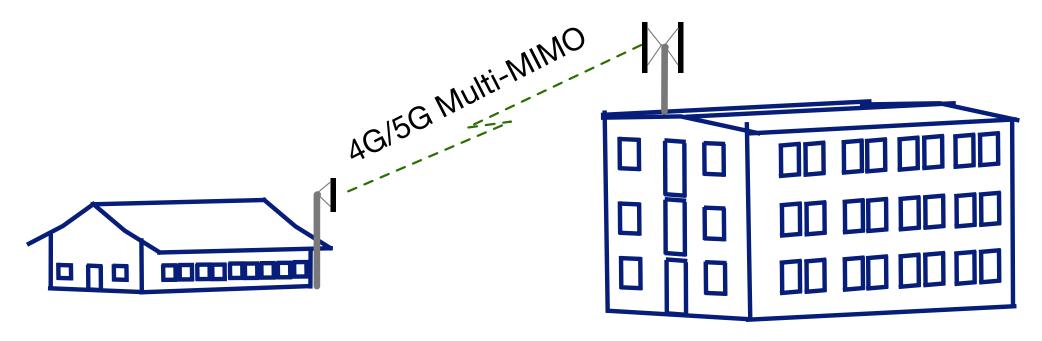
- Research for the (digital) Society
- → Regional Competence Centres (RCCs) for
 - the Digital Transformation
 - Connect Schools & unconnected
 Communities
 - practical experiences
- → Real world search based on needs from the communities





ARUA and The Guild in full support of the proposed joint AU-EU Innovation Agenda

Through the proposed AU-EU Innovation Agenda, announced on 14 February ahead of the AU-EU summit, universities are assuming a central place in the development of AU-EU relations.



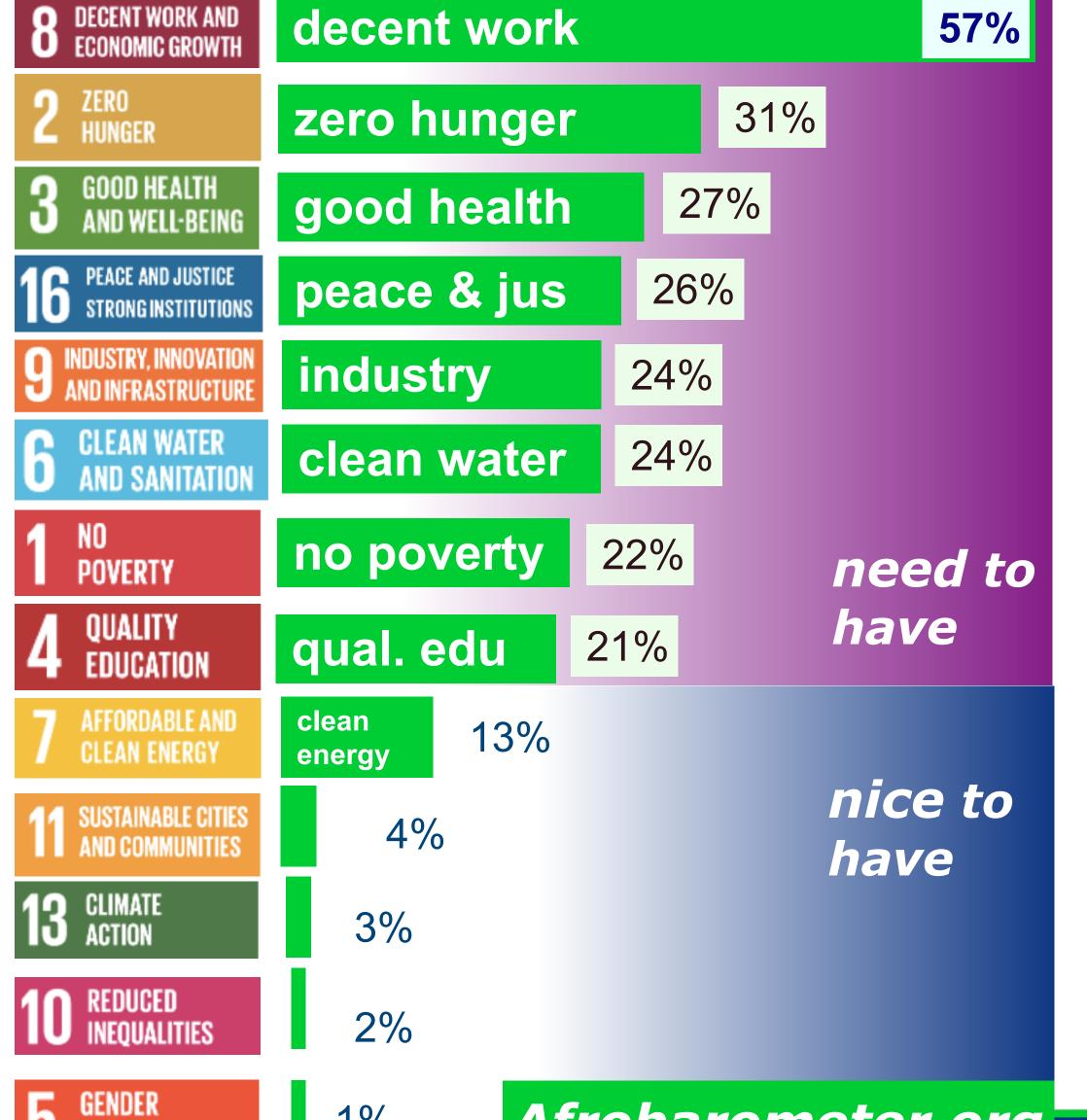
How to we reach every single human?

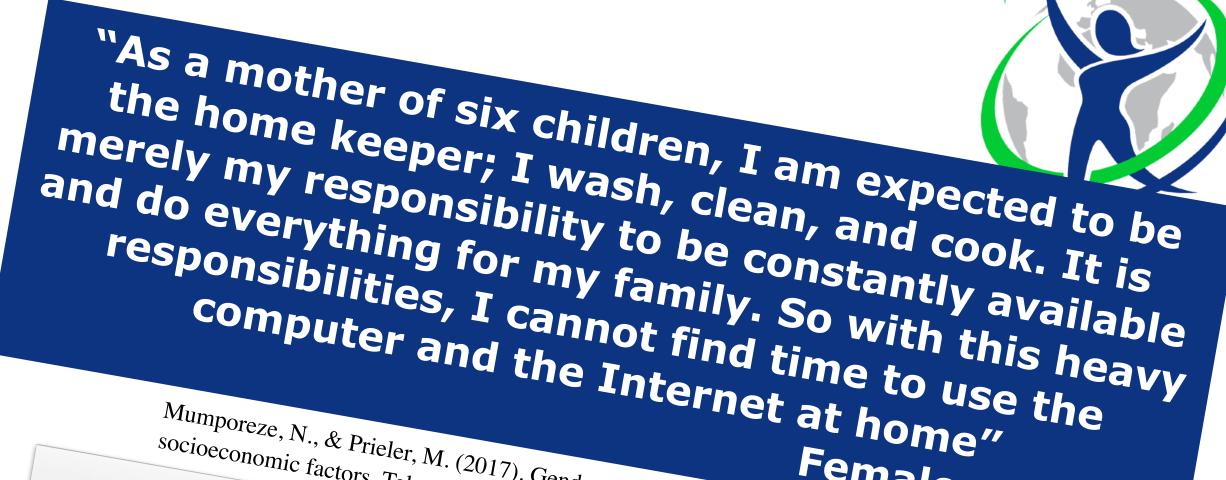




- Digital Public Goods (DPGs) & GovStack
 - decentralised DPGs
 - digital transformation
 - GovStack for local governments
 - digital health empowerment?
- → Local communities
 - Women saving networks
 - Women health networks

Priorities in (rural) Africa





Mumporeze, N., & Prieler, M. (2017). Gender digital divide in Rwanda: A qualitative analysis of Socioeconomic factors. Telematics and Informatics, 34(7), 1285–1293 Female, 45 years

"There is no broadband in rural areas" (in South of Sahara Africa - SSA)

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

https://blogs.worldbank.org/africacan/how-do-africanspriorities-align-with-the-sdgs-and-government-performancenew-results-from

Digital Public Goods & GovStack



1A: We recommend that by 2030, every adult should have affordable access to digital networks, as well have affordable access to digital networks, as a digitally-enabled financial and health services, as a means to make a substantial contribution to achieve a substantial contribution as a means to make a substantial contribution achieve achieve

- → Affordable access to DPGs and GovStack
- Community involvement
- Decentralised DPGs

1B: We recommend that a broad, multi-stakeholder alliance, involving the UN, create a platform for sharing digital public goods,





Community involvement

for meaningful access tailored towards the needs & capabilities

TAS OSLOENSIS.

- → WIR vs ICH
 - Werte
 - Inclusivität
 - Resilience

Value creation
Trust & confidence



Explore, Affection Opportunities



Empowerment, Work Digital Transformation



Self-actualisation Entertainment

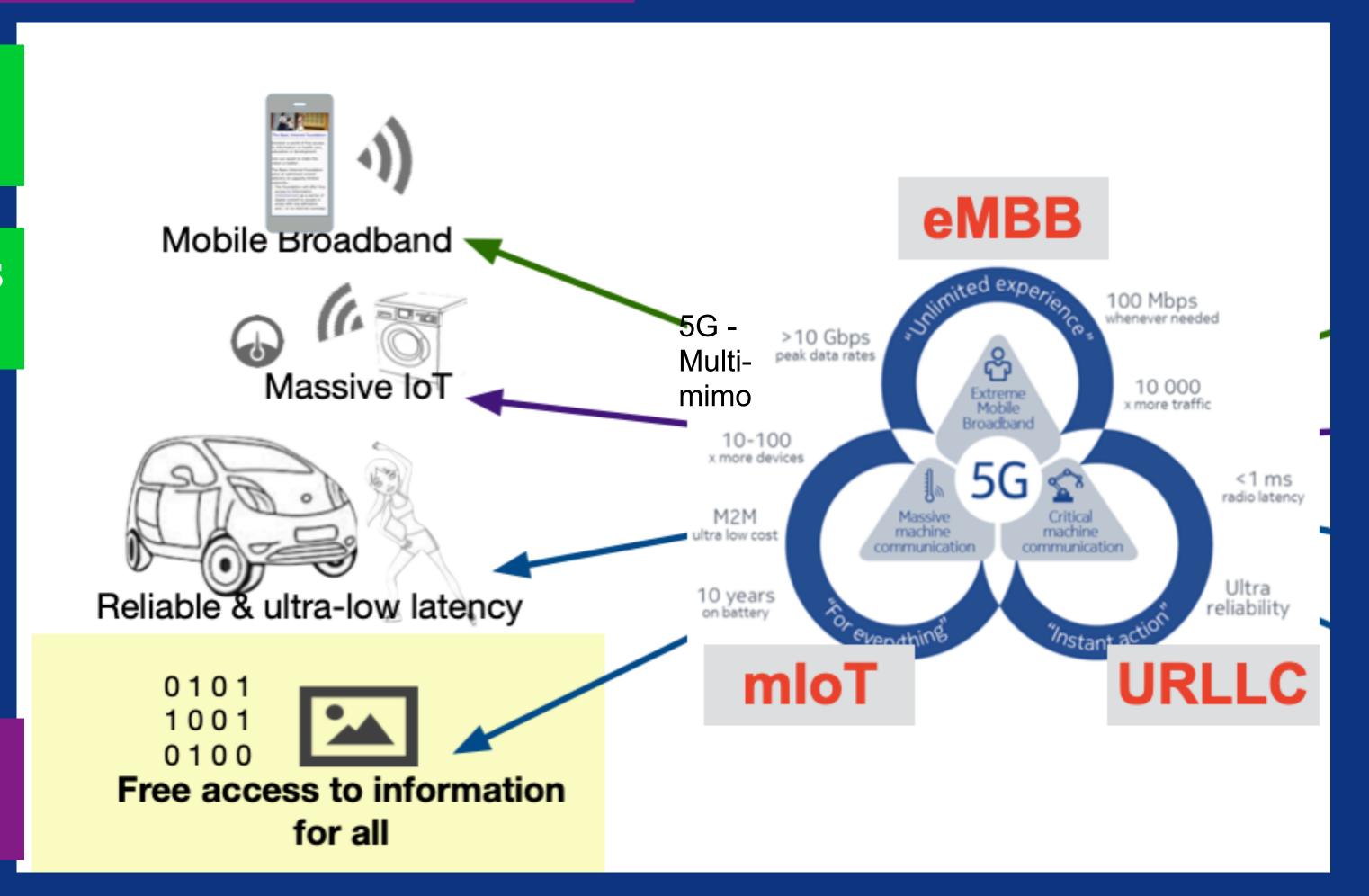


Need to change?

Road model: pedestrians & cyclists

Digital pedestrians, digital cyclists vs digital cars (broadband)

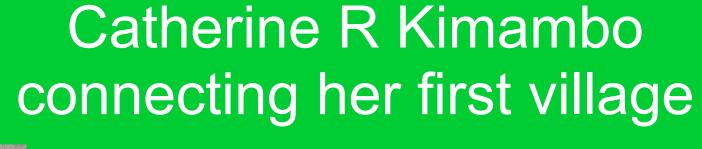
Internet Lite



Histories

"My mobile is more important than a weapon"





https://vimeo.com/368147538 - 2020





Usingo Secondary School, KE

