

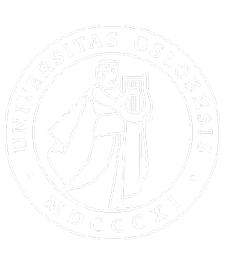
C20 Environment, Climate Justice and Energy Transition Working Group (ECEWG) with C20 Education, Digitalization, and Civic Space Working Group (EDCSWG)

1Dec2022

The Power of Digitalisation for Climate and Energy Justice in the Global South

Josef Noll

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



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



2





Norge Norway

1994: Opera Software

Kjeller

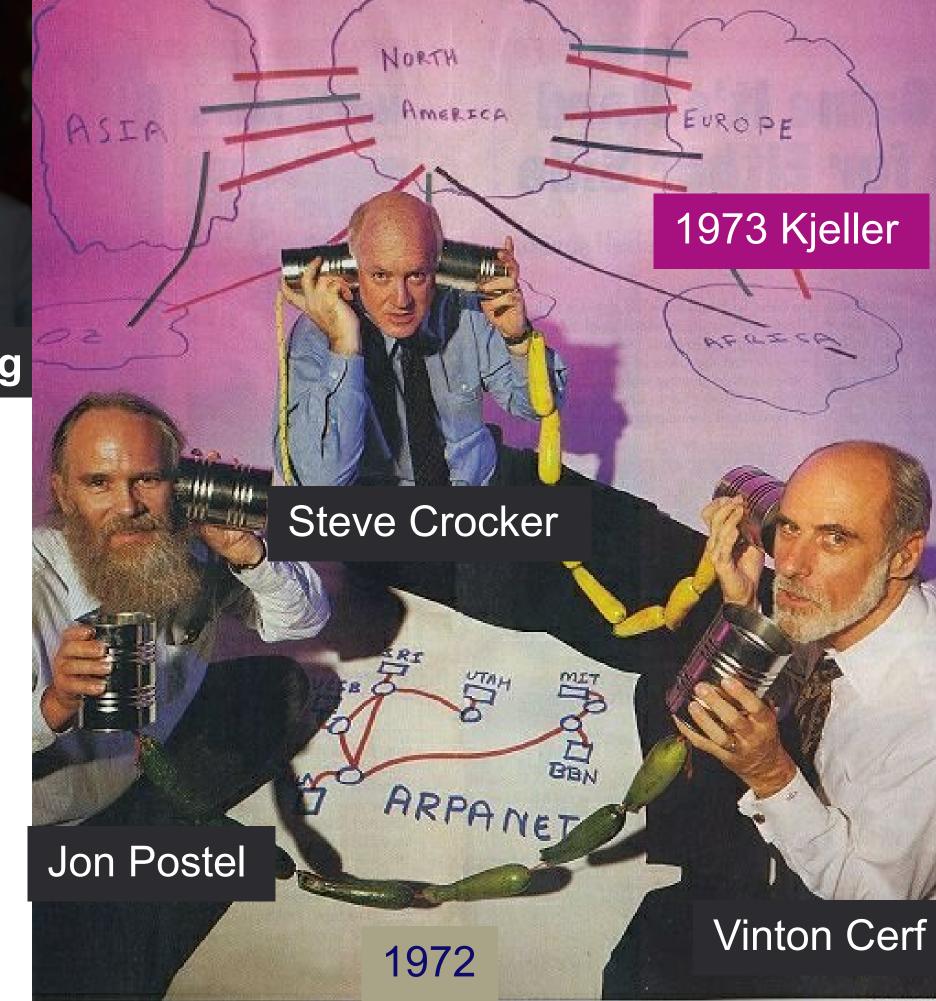
2014:



Connect The

*** KJELLER
INNOVASION

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



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

Recommendations (June 2019) United Nations High Level Panel



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



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

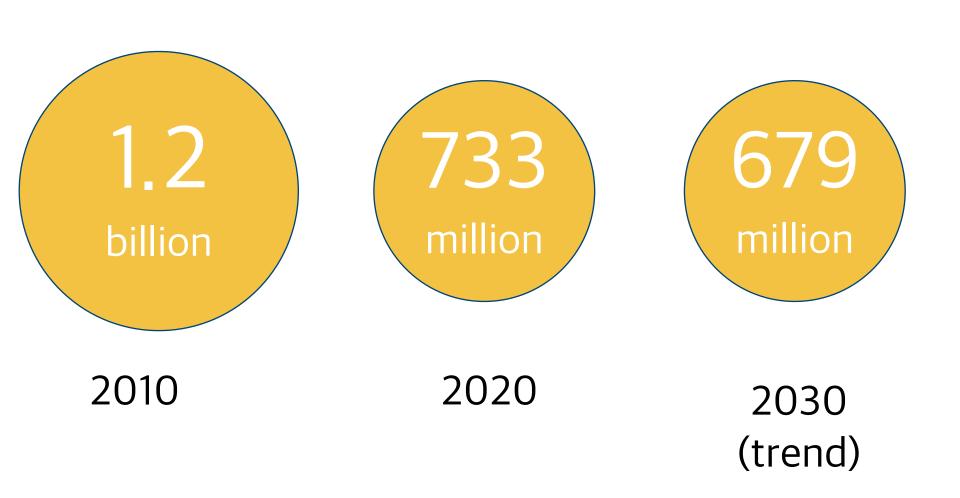
Energy & Digital, enablers for the SDGs





People without electricity

SDG 7.1 calls for universal access to energy by 2030



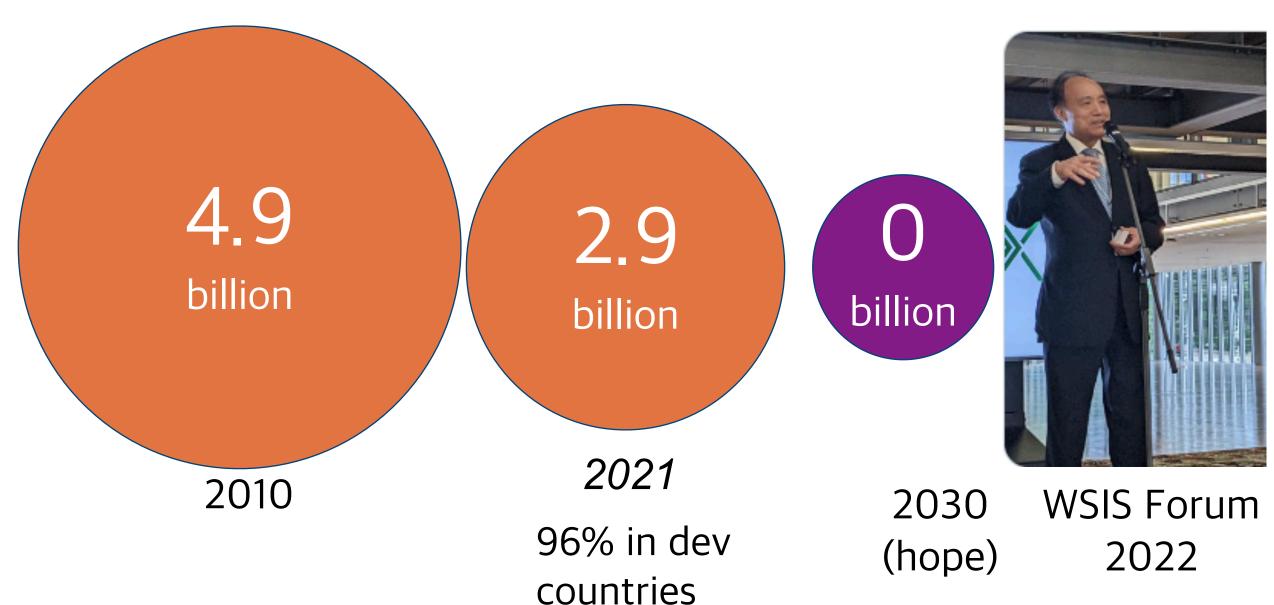
[WorldBank 2021]

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



People not using Internet

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



[ITU 2010, 2021]

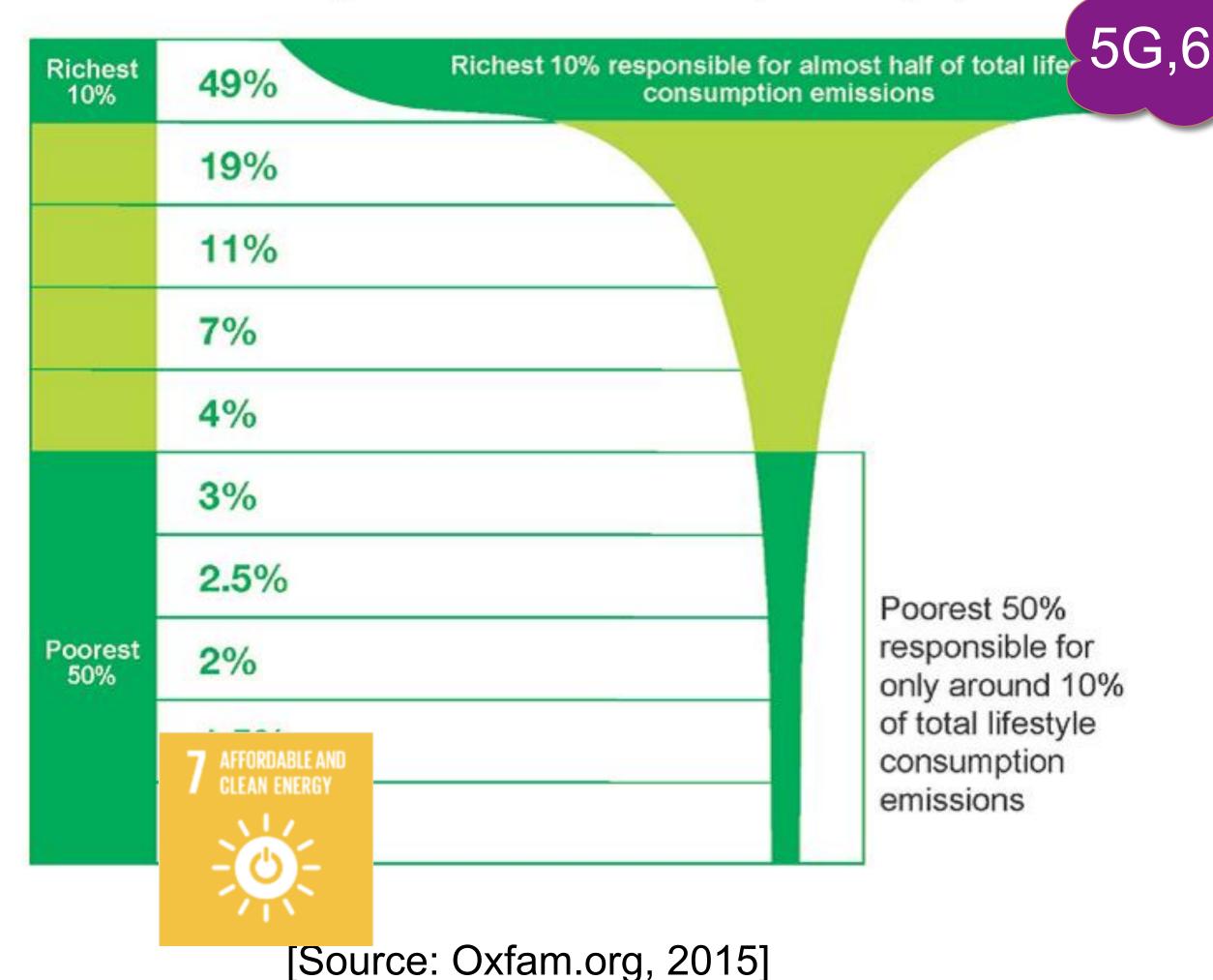
https://www.itu.int/hub/2021/11/facts-and-figures-2021-2-9-billion-people-still-offline/

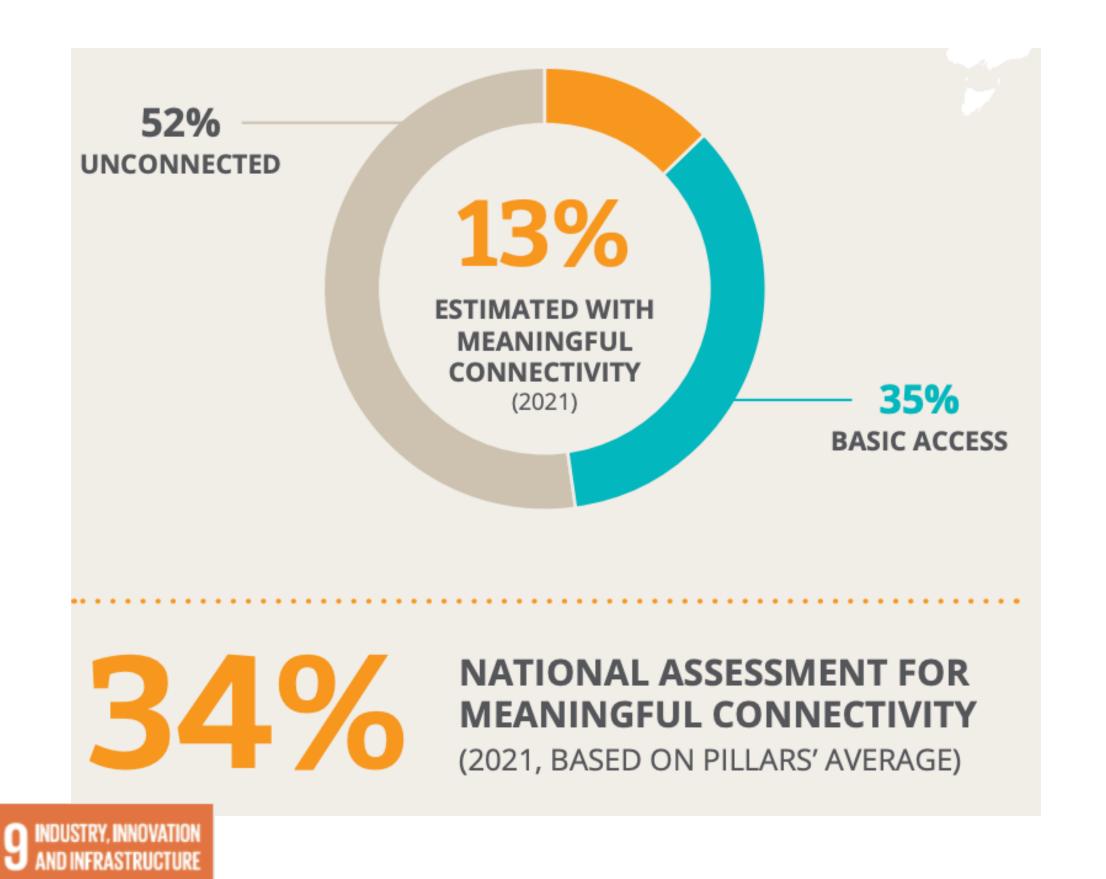
World population arranged by income (deciles)

Inequality in Energy & Digital Access









How to we reach every single human?





air, water, rest and sleep

- Digital Public Goods (DPGs) & GovStack
 - decentralised DPGs
 - digital transformation
 - GovStack for local governments
 - digital health empowerment?





[adopted from: https://shift-magazine.net/2015/11/17/the-economics-of-human-need/]

Community involvement

for meaningful access tailored towards the needs & capabilities

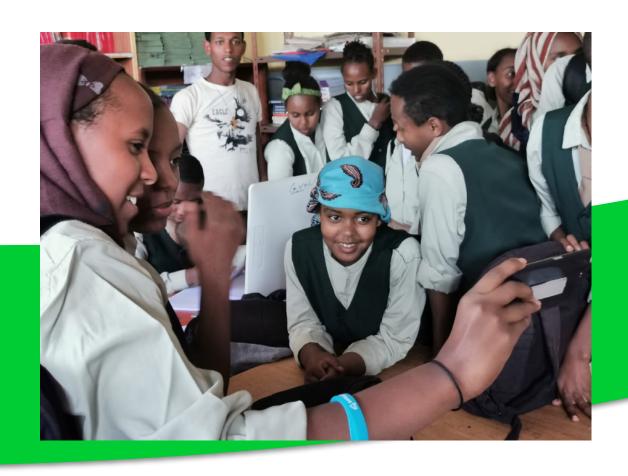


- → WIR vs ICH (we vs me)
 - Werte (values)
 - Inclusivität (inclusivity)
 - Resilience

Value creation
Trust & confidence



Explore, Affection Opportunities



Empowerment, Work Digital Transformation



Self-actualisation Entertainment

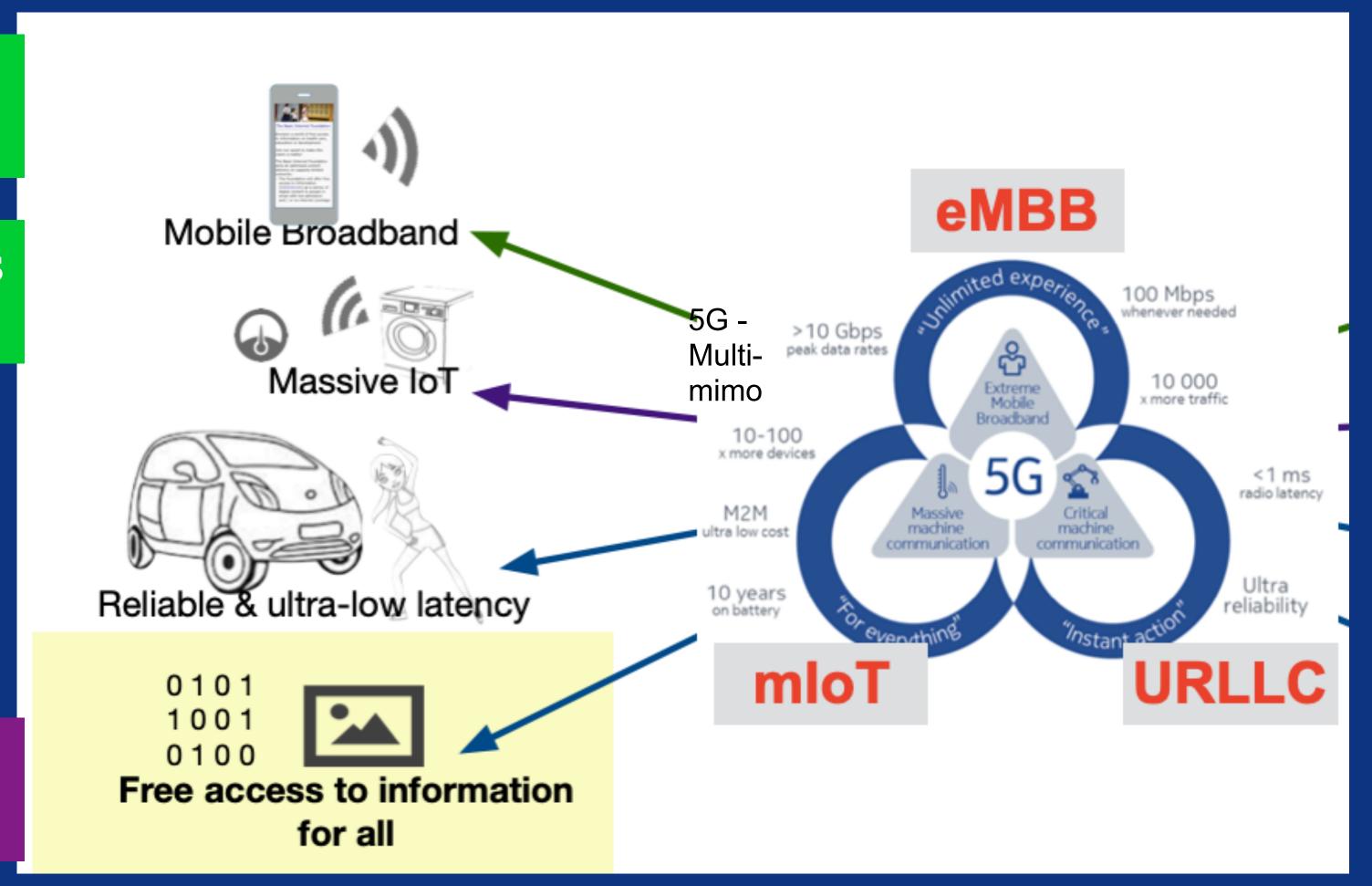


Need to change?

Road model: pedestrians & cyclists

Digital pedestrians, digital cyclists vs digital cars (broadband)

Internet Lite

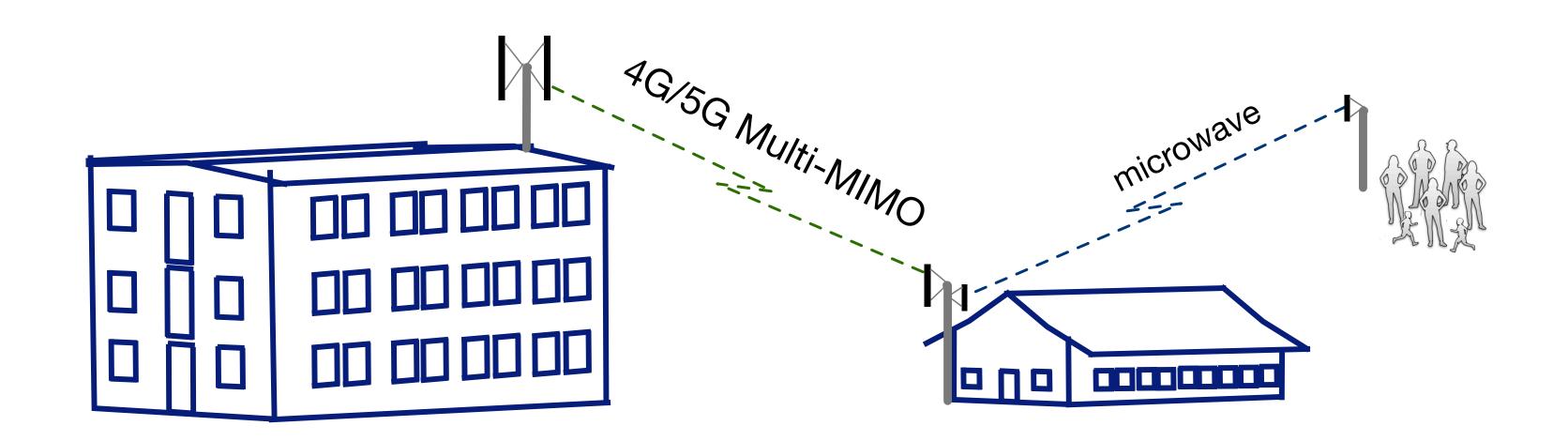


The role of Universities "more toys for boys - or societal impact"



- → Inclusive and empowered (digital) societies
- → From NRENs to Schools and Communities

- → Regional Competence Centres (RCCs) for
 - the Digital Transformation
 - Connect Schools & Communities
 - practical experiences

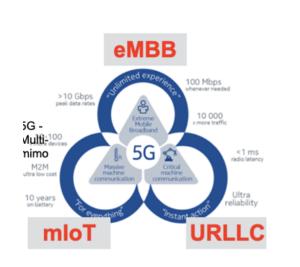


Digitalisation as Enabler











5G/6G



Machine Learning

Artificial Intelligence

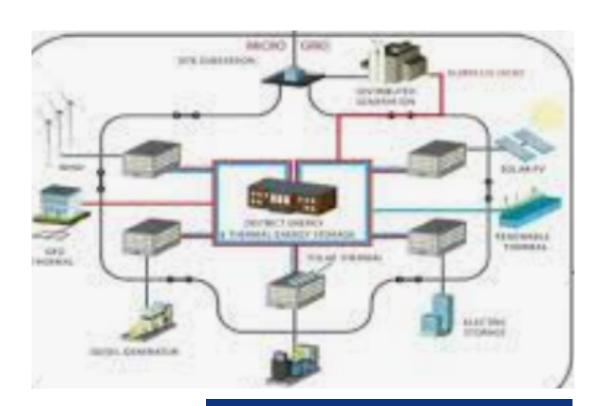




Wind, PhotoVoltaics







MicroGrid



electrical vehicles

Digitalisation as enabler for Climate and Energy Justice

- Digitalisation as enabler
 - KISS: Keep it simple, stupid
 - Decentralised
 - Community Learning Living Labs (C3L)
- Renewable energy
 - micro-grid, decentralised
 - production <> consumption balance
 - empowerment for communities
- Self-sustained communities
 - Building blocks for job-creation, educating, energy
 - Values, Inclusivity, Resilience



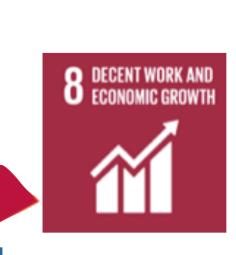


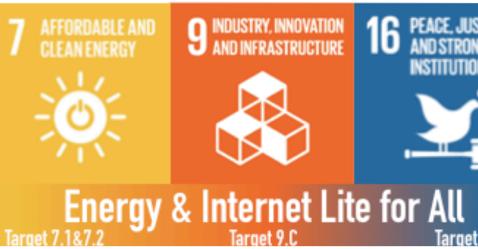




















Histories

"My mobile is more important than a weapon"





https://vimeo.com/368147538 - 2020





Usingo Secondary School, KE



