UNIVERSITY OF OSLO

Digital Cooperation and Diplomacy, 6Dec2022

Africa and the Internet

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





1973: Internet to Kjeller/Europe

KJELLERINNOVASION

Norge Norway

1994: Opera Software

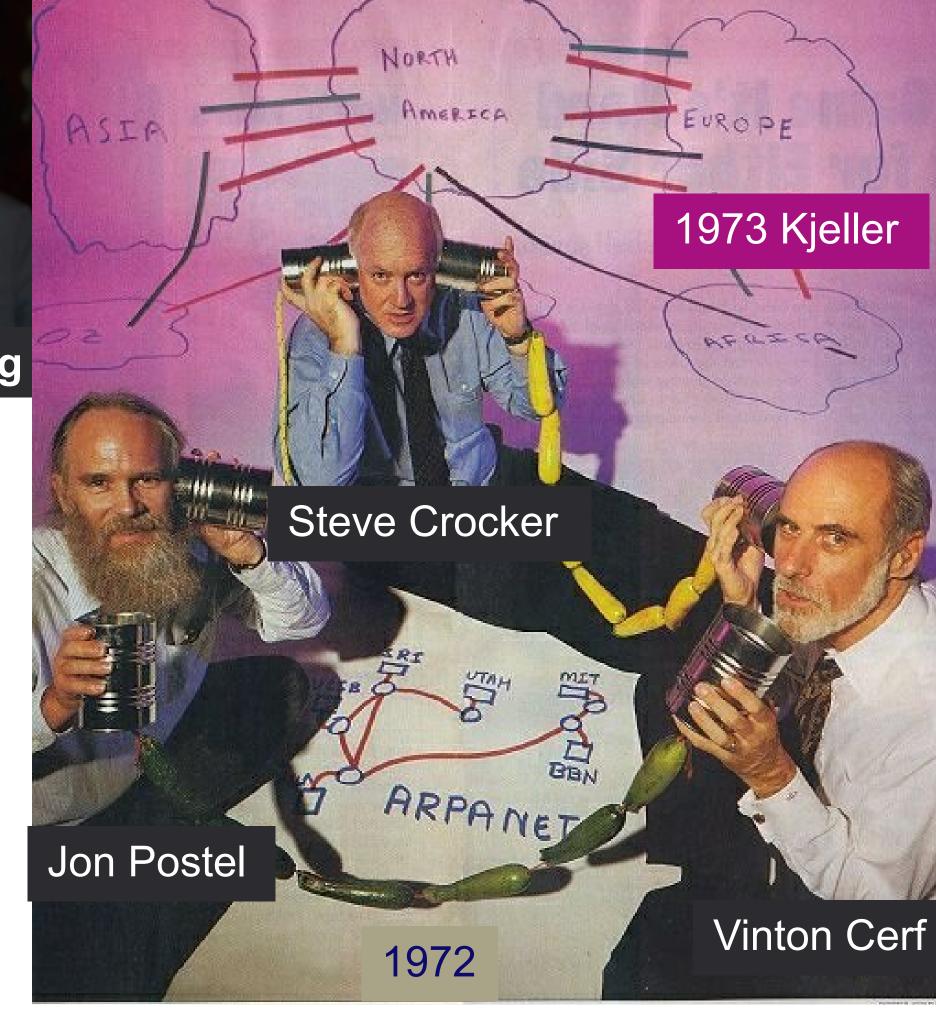
Kjeller

2014:



Nordics & Baltics (N8)

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



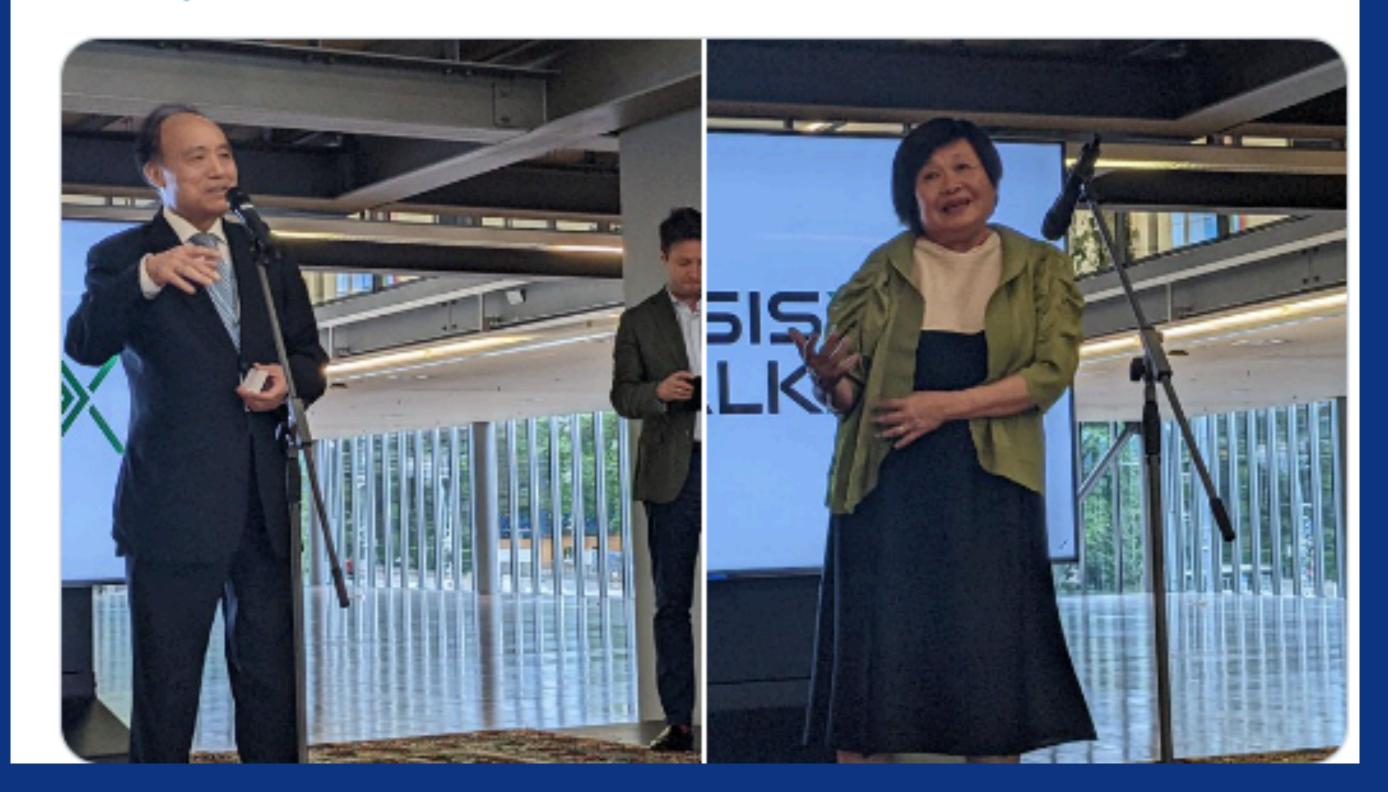
Source: http://www.michaelkaul.de/History/history.htm

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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





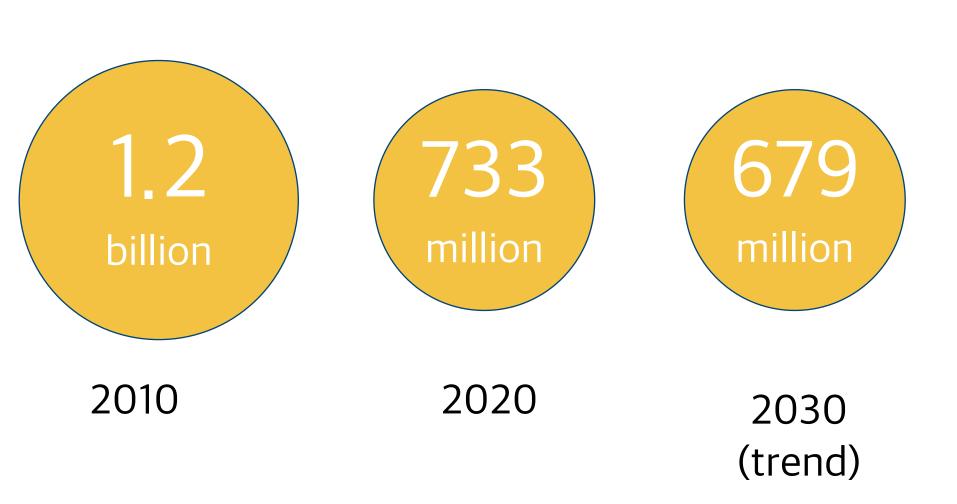
Energy & Digital, enablers for the SDGs





People without electricity

SDG 7.1 calls for universal access to energy by 2030



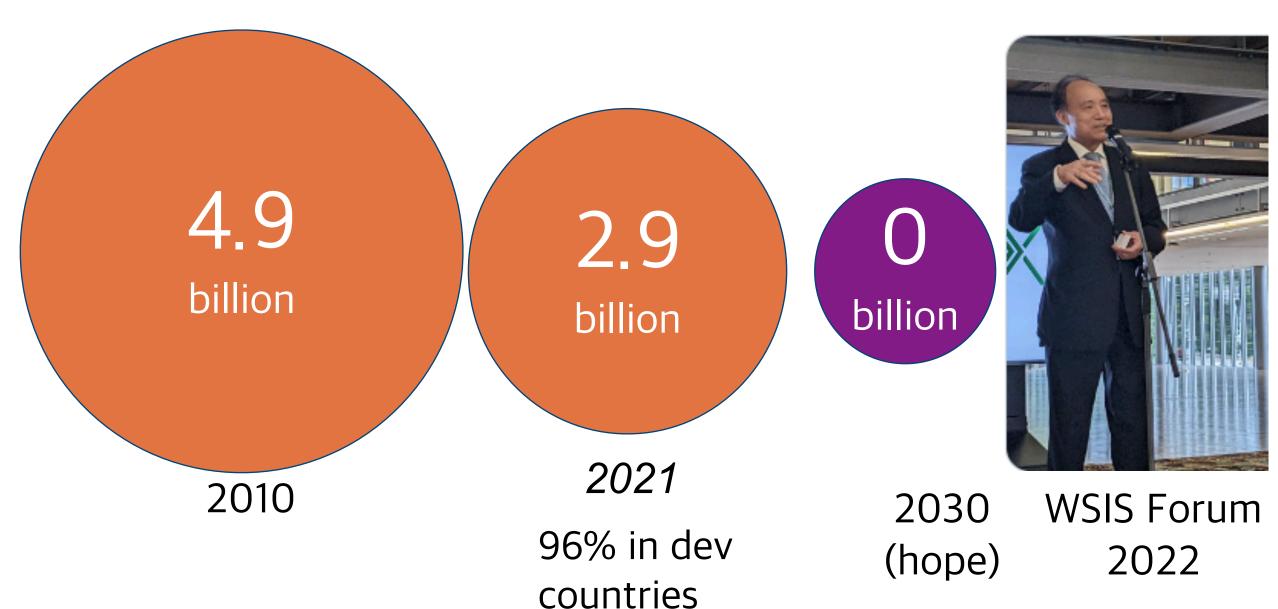
[WorldBank 2021]

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/

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Today's Internet failed to connect the unconnected

"Internet had the ability to dismantle
the divide.
the divide.
Internet failed miserably, the
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



Dec2022, Josef Noll Africa and the Internet

What if

We revisit access

We decentralise the Internet

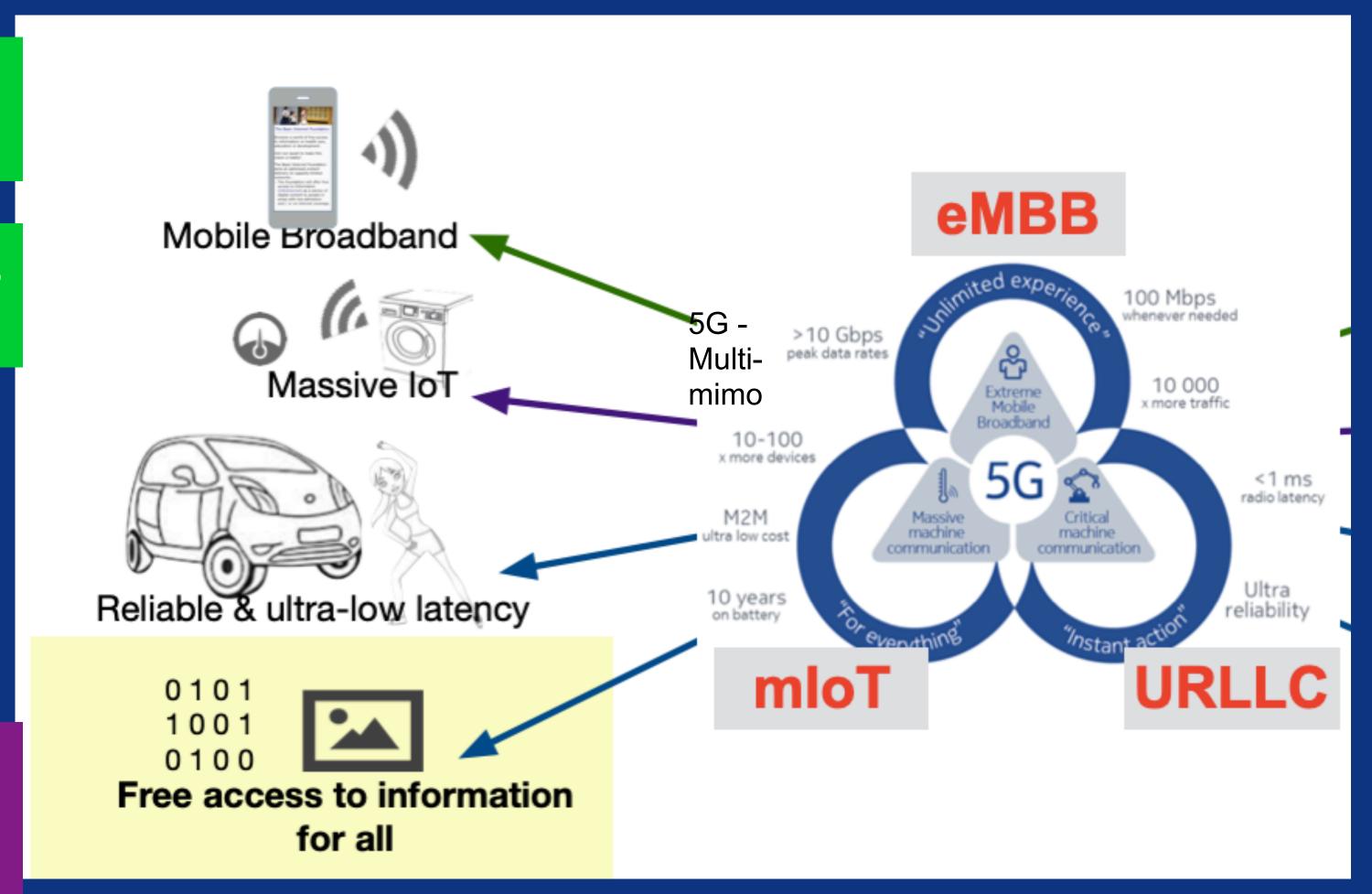
We use Universities to connect

Revisit Access

Road model: pedestrians & cyclists

Digital pedestrians, digital cyclists vs digital cars (broadband)

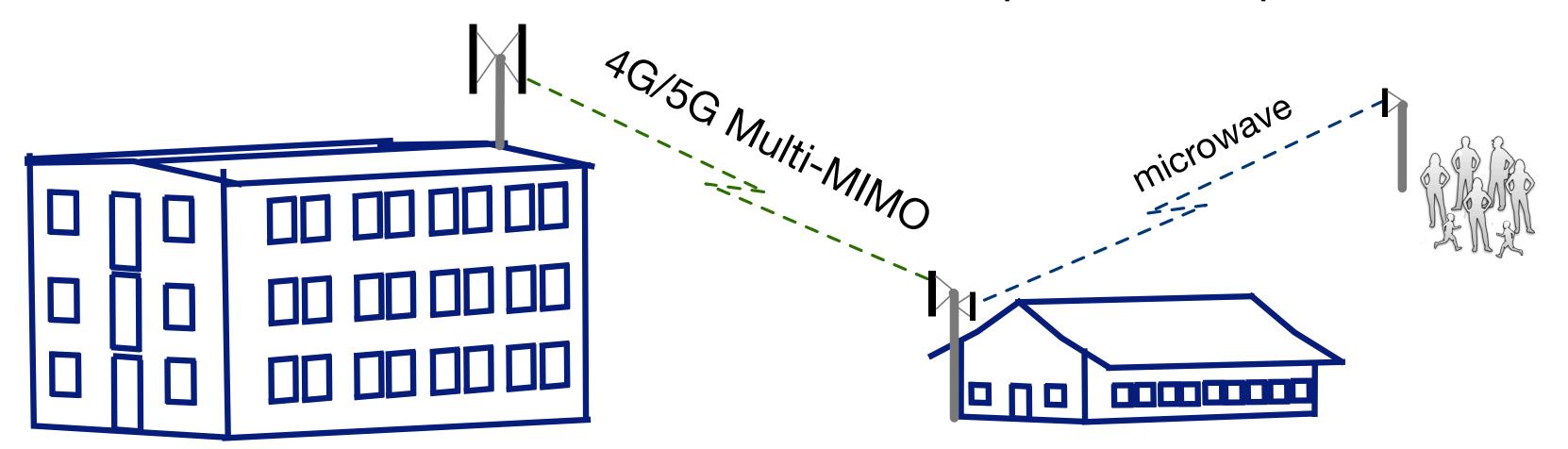
Internet Lite as a Digital Public Good (DPG)?



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 C**ommunity Learning &

















ne Internet

Academic fundamental values



Public Responsibility for and of HE ESGs European Stands and Guidelines (Standards and Guidelines for Quality Assurance in theEuropean Higher Education Area)

EHEA European Higher Education Area

HE Higher Education

University of Oslo

The ESGs and fundamental values

The Rome Communique defined fundamental values as important elements of the EHEA:

- Institutional autonomy
- Academic freedom & integrity
- Participation of students & staff in governance
- Public responsibility for and of HE
- Except for academic freedom no definition and even academic freedom not fully agreed upon

05.12.2022

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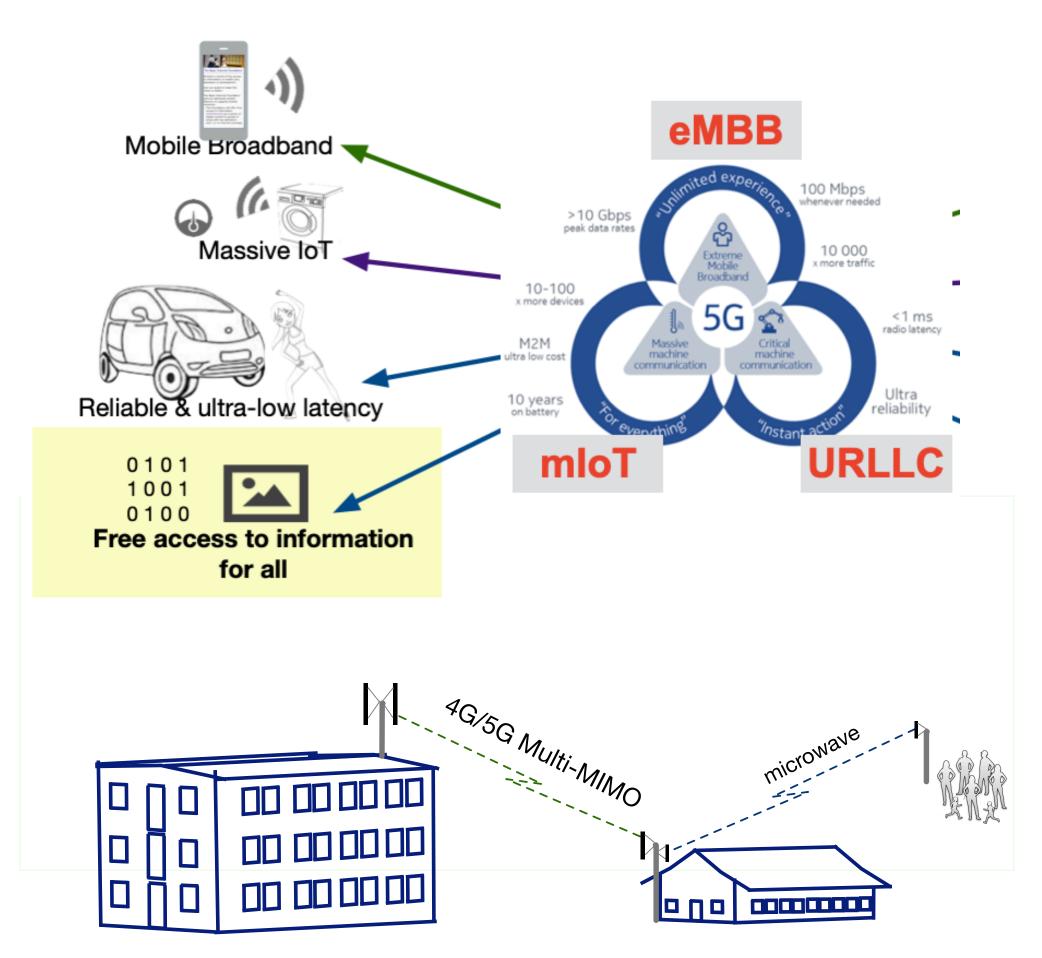
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Conclusion Partnership for Connectivity

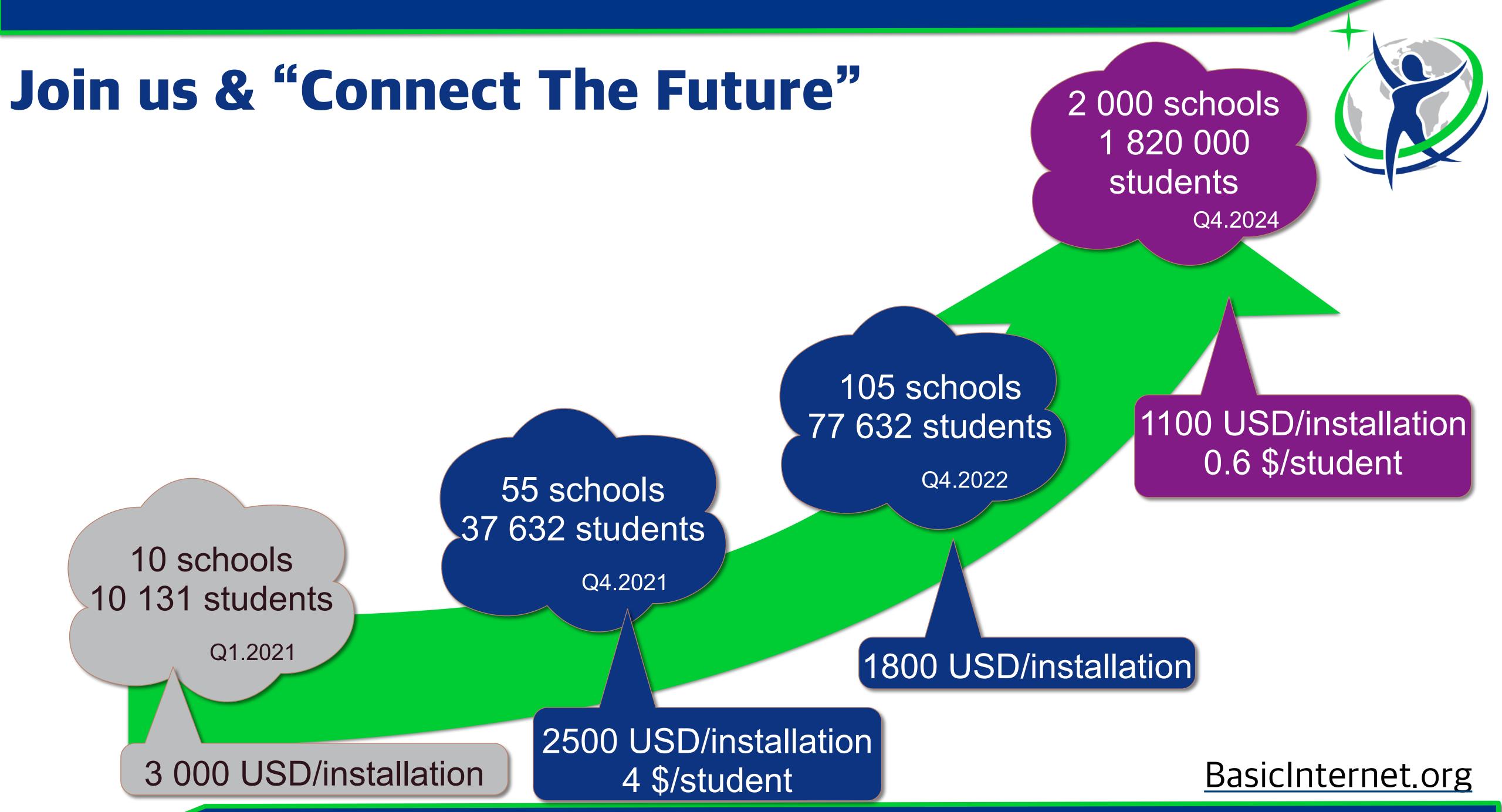
- Universities
 - Real-world knowledge
 - Decentralised, empower the communities
 - Knowledge4Africa, 5GforPeople
- Community Learning & Living Labs
 - from NRENs to Schools to CL&L
- Commercial actors
 - Mobile operators: Research with 5G as backbone
 - ISPs, satellite
- → Government, ITU, UNICEF, UNESCO,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

2 000 schools 1 820 000 students Q4.2024





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