



School Connectivity Ethiopia - 10May2020

Connecting Schools and Societies in Ethiopia

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Addressing the need

- School connectivity in Ethiopia
 - ➔ Total Project: connect all schools
 - ➔ Phase 1: 3.500 secondary schools
 - 6 months time frame, 35 Million USD
 - ➔ Phase 2: all secondary schools
 - time frame 2020-2022
- Norway's share
 - ➔ Connect 500 secondary schools
 - ➔ 45.950 NOK, 1 year project
- Collaboration & Innovation
 - ➔ Competence building
 - ➔ Local deployment (Univ. & IBA Ethiopia & local ground)
 - ➔ Community empowerment (re-using)



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Ministry of Education
Federal Democratic Republic of Ethiopia



ተ/Date: 20/8/2012
ተ/Ref: 1/2-4344/23296/35

Innovation Norway
Oslo, Norway

Subject: Financial Support for Digital Interconnection of Ethiopian Secondary Schools

Currently more than 26 Million students are in School in Ethiopia in more than 46 thousand Schools in the pre-Primary, Primary and Secondary level classes. Among these large number of Schools, Schools connected to a bear 2Mbps Internet connectivity is less than 500 in number. It implies that these young generation is being brought up in non-digital Schools in a Digital Age.

The Ministry of Education has now decided to change this through implementation of two Phases. Phase one is provision of 300Mbps Internet connectivity to the 3500 Secondary Schools within a time period of 6 months at an estimated Budget amount of 35 Million USD. The Second Phase is to be implemented over two years and is set to interconnect all the remaining Primary and Pre-Primary Schools at a minimum of 50Mbps speed. The Budget requirement for the Second phase is yet to be worked out.

The Educational Network Connectivity is going to be exclusively used for Educational and governmental Services and once installed will provide free internet services to the 3500 Secondary Schools and other government offices.

This is, therefore, to kindly request your good office to financially support the first phase of this Project and be part of the digital transformation in the Ethiopian General Education Sector.

My Best Regards

Dr. Ing. Getahun Mekuria
Minister



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BasicInternet.org

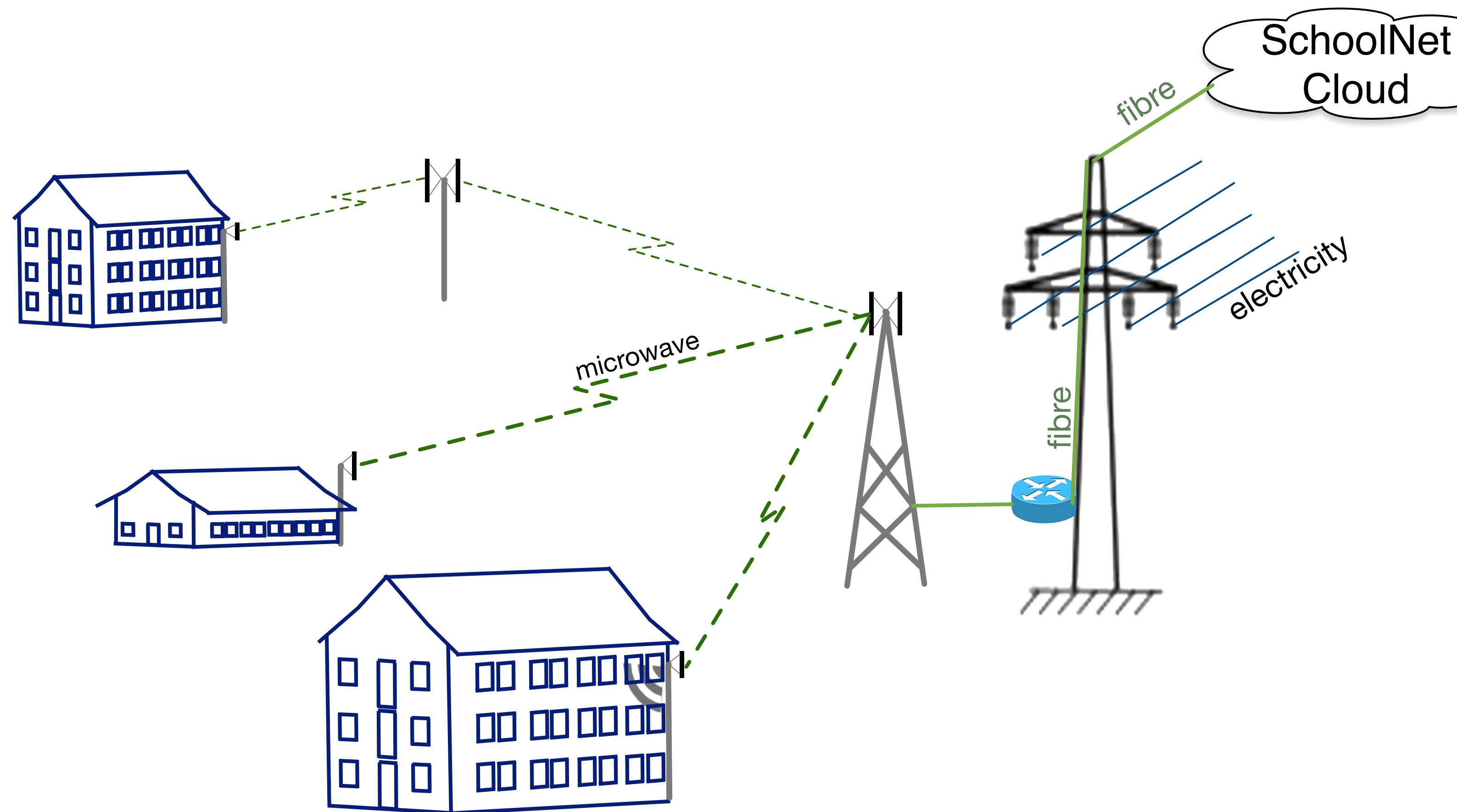


@Basic4all

Sch

Realisation

- SchoolNet distribution
 - ➔ educational network by Ministry of Education (MoE)
 - ➔ national fibre on high-voltage lines
 - ➔ fibre to microwave
- Microwave distribution
 - ➔ 0-5 km: point to multipoint
 - ➔ 5-15 km: point to point (mast)
 - ➔ >15 km: microwave relay mast
- Local school
 - ➔ receive microwave antenna
 - ➔ local Wifi distribution: local network controller & school server



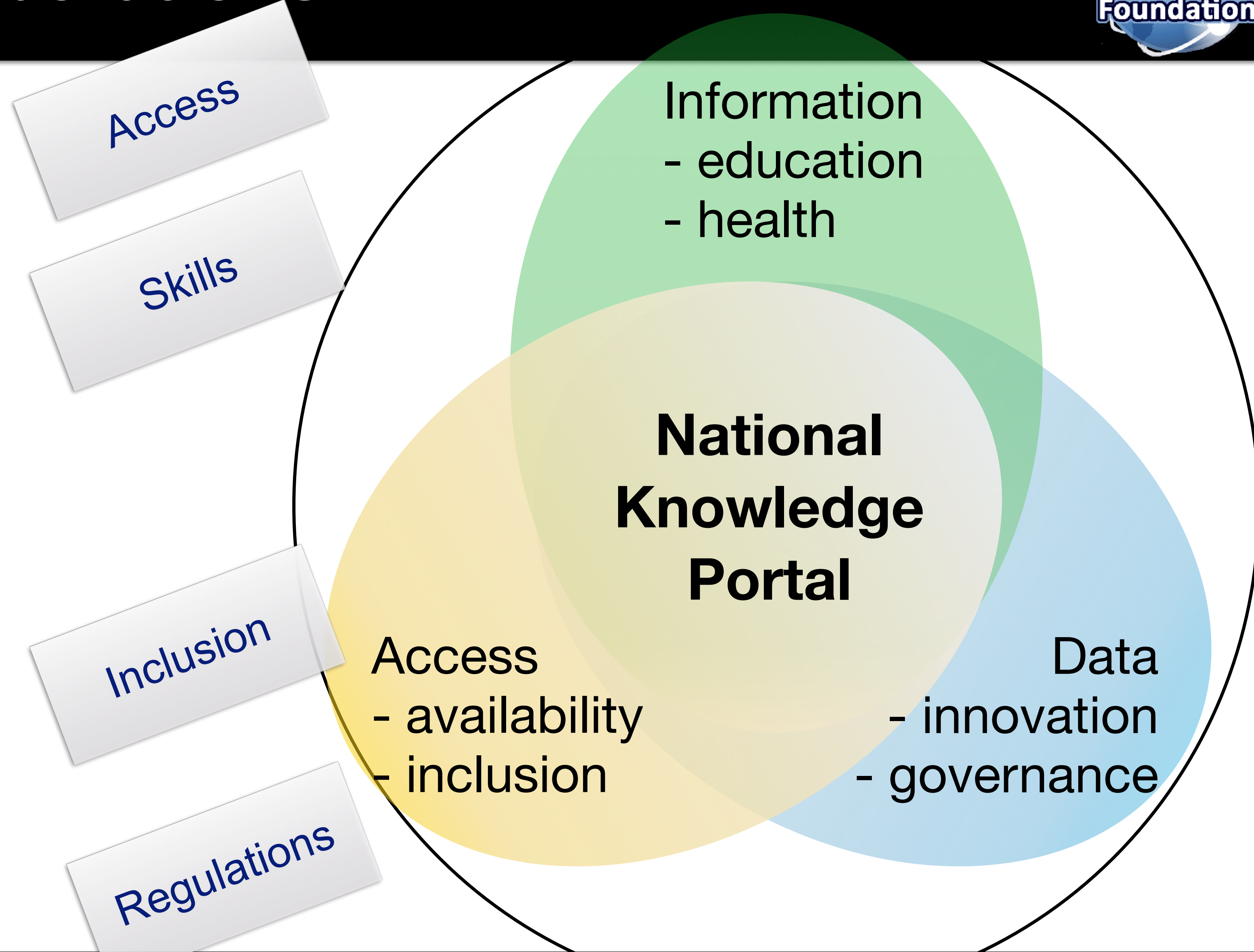
Proof of concept

- Koye Secondary and Preparatory School
 - ➔ connected as part of African Innovation Week 2019
 - ➔ using mobile network
- Local knowledge portal
 - ➔ yeboo.com health information



Innovations & Collaborations

- SchoolNet is a Knowledge Portal
 - turn into National Knowledge Portal
 - **Education**
 - **Digital Public Goods (DPGs)** for education
- Towards National Knowledge Portal
 - invitation to other sectors:
 - Health Promotion (Ministry of Health)
 - Agriculture
 - Job creation
 - DPGs for other sectors
 - **Job creation** and innovation
 - Governmental **data** sharing
 - Public-private partnership
- Community development
 - Connectivity for local society
- **Regulatory** Framework
 - **Free access** to Knowledge Portal



Addressing the Priorities of Norway

- Report to Stortinget 11 (2019-2020), **Priorities**
 - ➔ Access, skills, regulations, inclusion
- “Boys have the toys”
 - ➔ digital divide in both **devices**
 - ➔ and **mobile broadband** access
- **Integrated model for digital inclusion**
 - ➔ School connectivity (SDG indicator 4.A.1)
 - ➔ SchoolNet as Knowledge Portal
 - ➔ Knowledge transfer
 - ➔ Community involvement



Norwegian Ministry
of Foreign Affairs

Summary



Meld. St. 11 (2019–2020) Report to the Storting (white paper)

Digital transformation and development policy

Access

Skills

Regulations

Inclusion



Conclusion

- Connecting 500 secondary schools is an excellent contribution
 - ➔ Demand by Ministry of Education, who also provides fibre (high-voltage line)
 - ➔ Fibre end-point with microwave radio, connectivity to schools
 - ➔ 12 months, 45.950 NOK
- Answers directly to Norway's priorities Meld. St. 11 (2019-2020):
 - ➔ Access - to schools and communities
 - ➔ Skills - through knowledge portal SchoolNet
 - ➔ Regulations - equal access
 - ➔ Inclusion - community connectivity
- Continues existing cooperation
 - ➔ follow-up African Innovation Week
 - ➔ Centre of Excellence with Jimma & Ambo Univ.



Example: Corona/COVID-19 video for African countries



YouTube:
<https://www.youtube.com/watch?v=Bc3ojifPRlc>

Download (16:9)
<https://owncloud.basicinternet.org/index.php/s/4gB1Zdux6Clx1yR>

Download (social media)
<https://owncloud.basicinternet.org/index.php/s/jERKYmObsGcePBH>