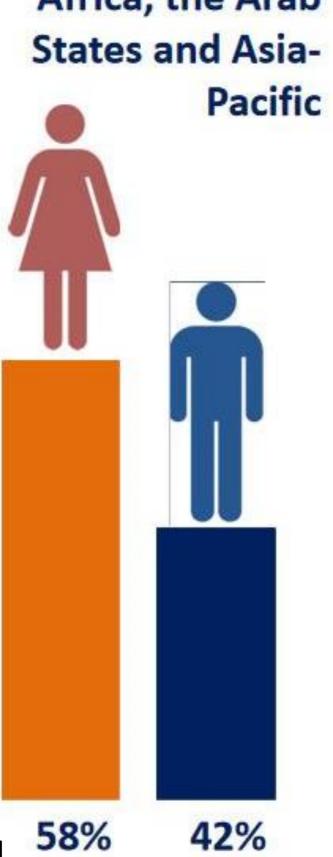


Themselves

Josephine Miliza – KICTANET APC-LOCNET Project

Who are the Unconnected?

is most pronounced in Africa, the Arab States and Asia-Pacific





Half have a GNI/capita of < US\$
(PPP) 6,500, a large proportion of which are located in Africa and Asia-Pacific



The elderly have much lower Internet penetration levels than the overall population across all regions



Individuals with low educational attainment often remain unconnected across all regions

Source: ITU

Internet Adoption Barriers by Region



In Developed Countries, the top Internet Adoption Barrier is Affordability

Internet Adoption Barriers





Capability







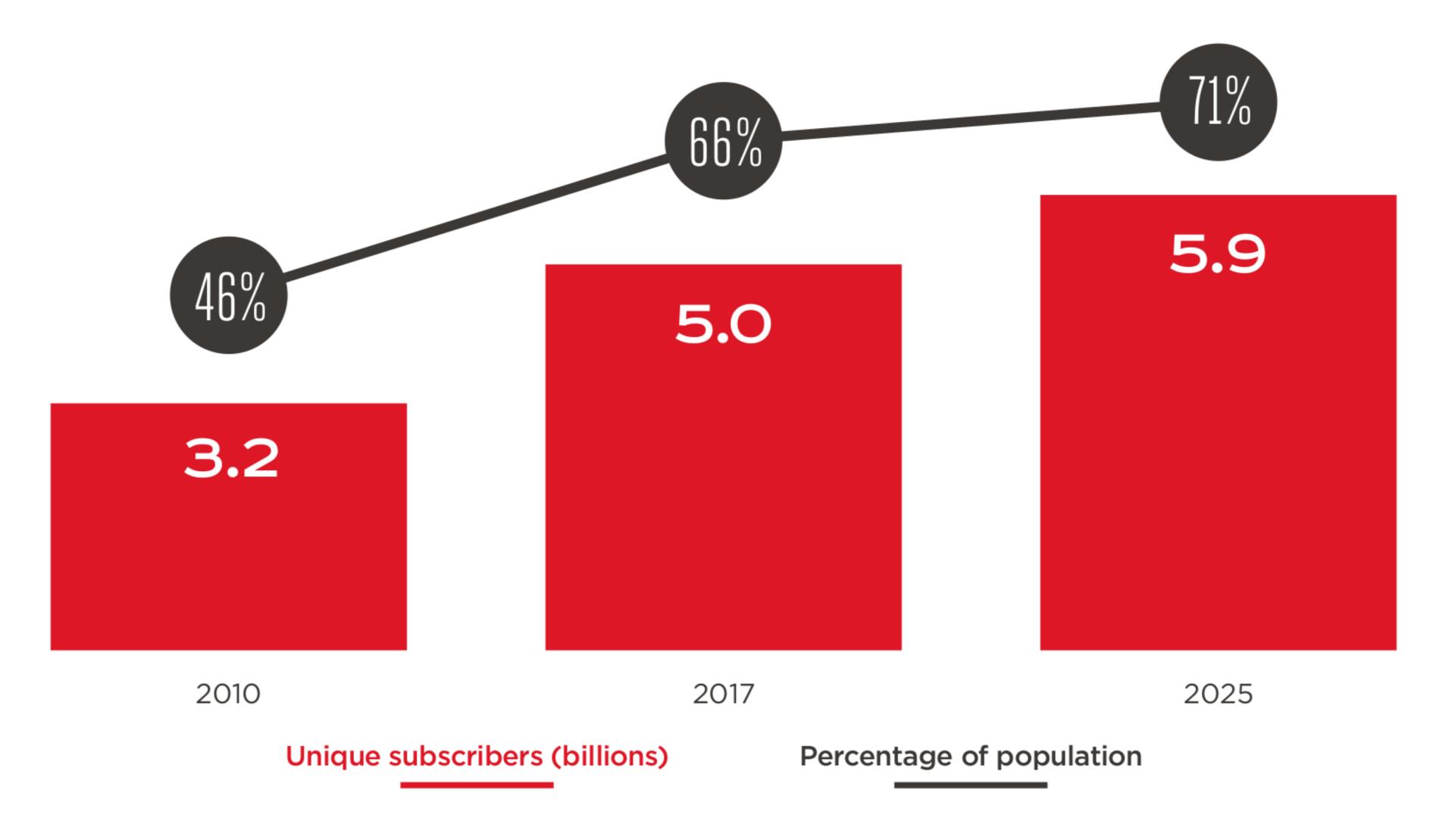
In Developing Countries, the top Internet Adoption Barrier is Relevance

Key Regional Internet Adoption Barriers

Africa	Arab States	Asia-Pacific	CIS	Europe	The Americas
			Q \$\mathref{		

Source: ITU

Subscriber Growth is Slowing



Source: GSMA Intelligence

We've Connected the Easy Half

Billions of People on Earth	Average Annual Income	Affordable Monthly Communication Spend	
1 st Billion	\$29,206	\$205	
2 nd Billion	\$12,702	\$53	
3 rd Billion	\$5,540	\$23	
4 th Billion	\$2,987	\$12	
5 th Billion	\$1,771	\$7	
6 th Billion	\$1,065	\$4.4	
7 th Billion	\$540	\$2.25	



Community Networks in Africa



- Holistic approach
- Bottom-up models started by local communities to address connectivity gaps
- Human –centered built with, for and by the community.
- Peer to peer
- Non commercialized
- Catalyze local economies and drive adoption of technology

CNs in Africa -12 African countries. 25 are considered active

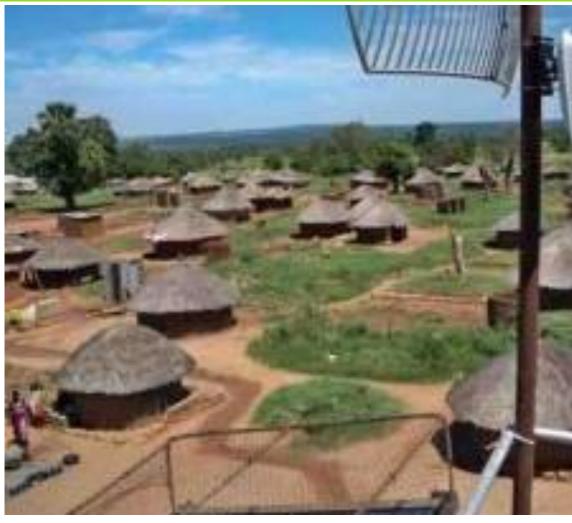
Community Networks in Africa

Zenzeleni Eastern Cape, South Africa



TunapandaNET Kibera, Nairobi Kenya





BOSCO Uganda



Macha Works Zambia



Community Ownership

Certificate issued by the Commissioner of Companies & Intellectual Property Commission on Monday, March 17, 2014 at 13:43

Certificate of Registration

En,

Companies and Intellectual Property Commission

a member of the dti group

CR10

Registration Number: 2014 / 002051 / 24

e Name:

ZENZELENI TELECOMMUNICATIONS NETWORK PRIMARY CO-OPERATIVE LIMITED

REPUBLIC OF SOUTH AFRICA CO-OPERATIVES ACT, 2005

OF A CO-OPERATIVE

(SECTION 7)

I hereby certify that

ZENZELENI TELECOMMUNICATIONS NETWORK PRIMARY CO-OPERATIVE LIMITED

was registered on

5/2/2014

under Section 7 of the Co-Operatives Act, 2005 (Act 14 of 2005), with registration number

2014 / 002051 / 24

as a Primary Co-Operative with a limited liability.

Its constitution was also registered on the same date.

I further certify that

ZENZELENI TELECOMMUNICATIONS NETWORK PRIMARY CO-OPERATIVE LIMITED

is with effect from 5/2/2014 entitled to commence business.

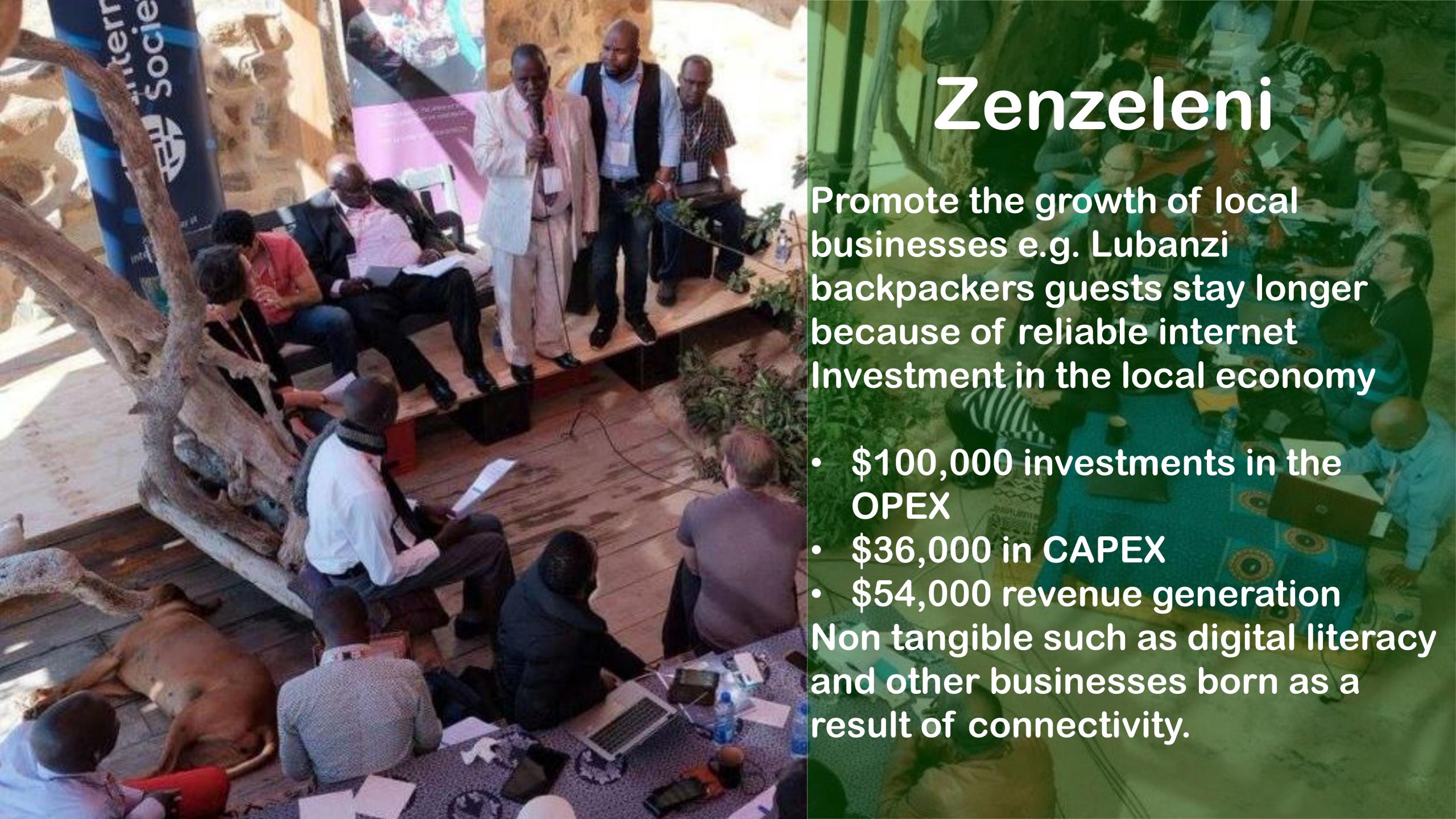
REGISTRAR OF CO-OPERATIVES

Page 2 of 2

Physical Address the dtl Campus - Block F 77 Meintlies Street Sunnyside 0001 Postal Address: Co-operatives Private Bag x237 Pretoria 0001

Docex: 256
Web: www.cipc.co.za
Contact Centre: 086 100 2472 (CIPC)
Contact Centre (International): +27 12 394 9500









CNs Deploy Low-Cost Infrastructure









BOSCO Uganda

- Connecting community ICT centers that are run by the local youth
- Building solar mini grids for local businesses e.g. hair dressing, phone charging, barber shops that enable businesses to run longer hours
- Provide solar mini grid to schools replacing use of diesel
- Local youth are also trained in maintenance of the solar equipment thus which becomes a source of employment for them







Delivering Meaningful Access

Salama Application





TunapandaNET

Skilling the local youth with skills that enable them find work or give them pathways to becoming entrepreneurs

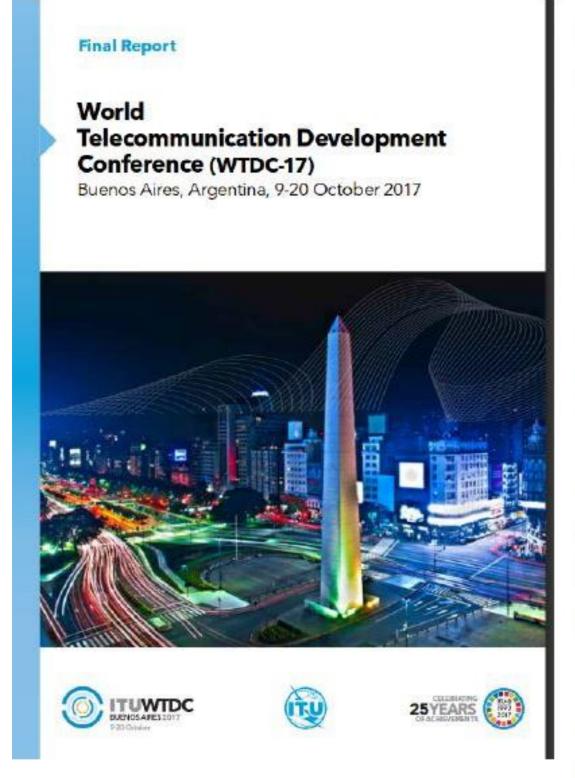
- User centered research
- Tech entrepreneurship
- Freelancing

75% of organization is sustained by revenue generated from client work. Through local and international client work 63% of graduates from the training have been able to find employment.



RECOMMENDATION ITU-D 19

Telecommunications for rural and remote areas



- that community access to ICT facilities and services is particularly important in rural and remote areas: business models which can achieve financial and operational sustainability can be operated by local entrepreneurs supported by a variety of initiatives, and these facilities, where necessary, should also be supported by universal service funds as an essential component of rural communications;
- that enhancing local technical expertise and adoption are important for successful implementation of ICT services and applications in rural and remote areas, and attention should thus be paid to training, exchange of information and sharing of maintenance facilities in order to achieve sustainability and viability;
- 10 that it is important to consider small and non-profit community operators, through appropriate regulatory measures that allow them to access basic infrastructure on fair terms, in order to provide broadband connectivity to users in rural and remote areas, taking advantage of technological advances;
- that it is also important that administrations, in their radio-spectrum planning and licensing activities, consider mechanisms to facilitate the deployment of broadband services in rural and remote areas by small and non-profit community operators;



Resources on Community Networks

- . https://www.apc.org/en/tags/community-networks
- . https://www.internetsociety.org/issues/community-networks/
- . https://communitynetworks.group/
- . https://manypossibilities.net
- . https://detroitcommunitytech.org/communitywireless
- . https://nextcenturycities.org/becoming-broadband-ready/
- . https://commotionwireless.net/

Resources on Community Networks

Videos

Zenzeleni - https://www.youtube.com/watch?v=R9u-

hfxAeBo&t=

MachaWorks -

https://www.youtube.com/watch?v=fDVAxJLVFOE

Tunapanda -

https://www.youtube.com/watch?v=vKcdLC48fzo

