

Towards Equitable Connectivity

ITU-ADB Joint Webinar

Advances in Closing the Connectivity Gap in Asia-Pacific: *Better Analysis, Understanding and Solutions*

*Wednesday, 23 September 2020,
Online*

Scope

01

Defining the
situation in
ASP

02

Areas of
Intervention

03

Tools &
Initiatives

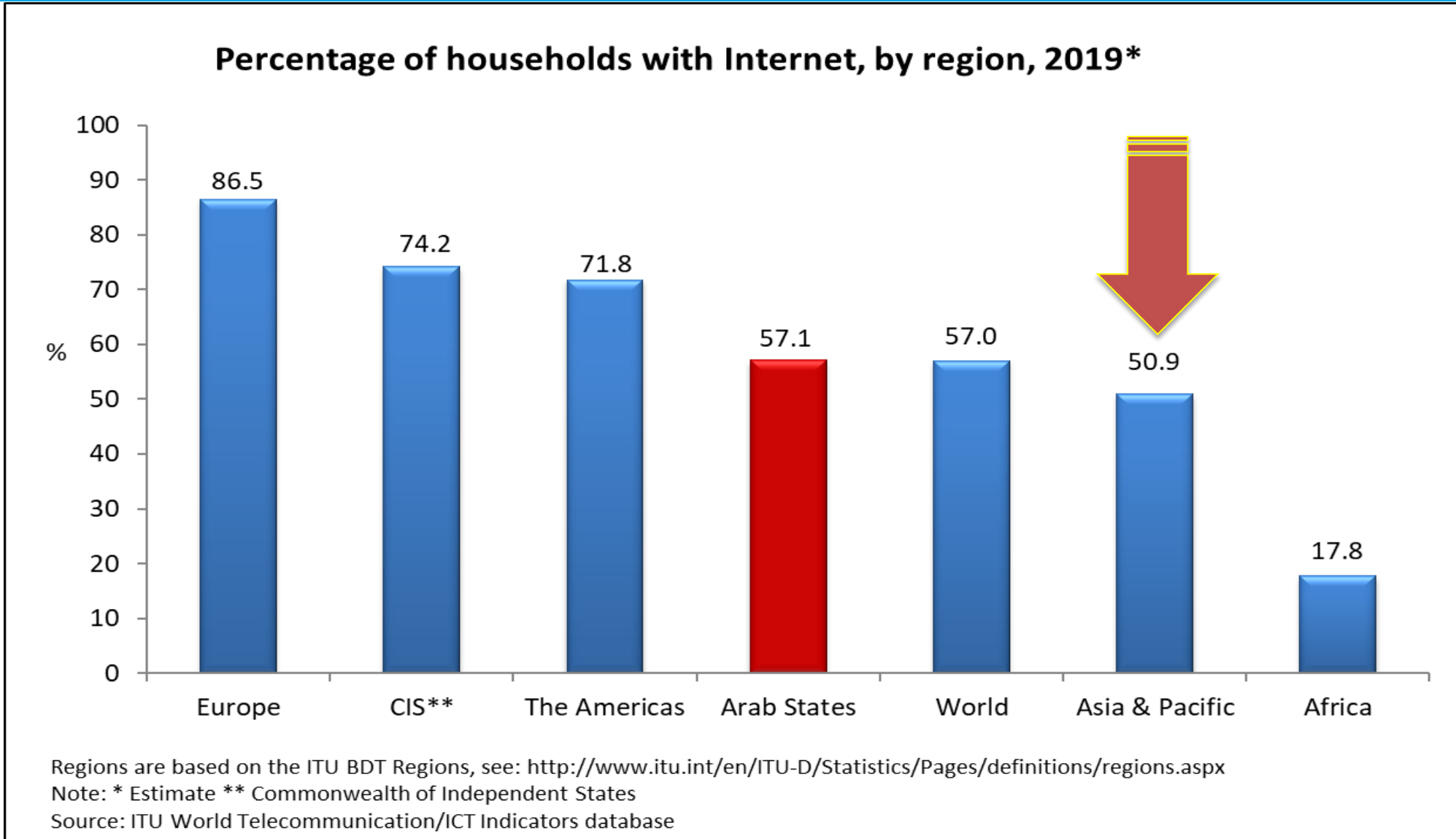
04

Impactful
Partnerships:
Example

05

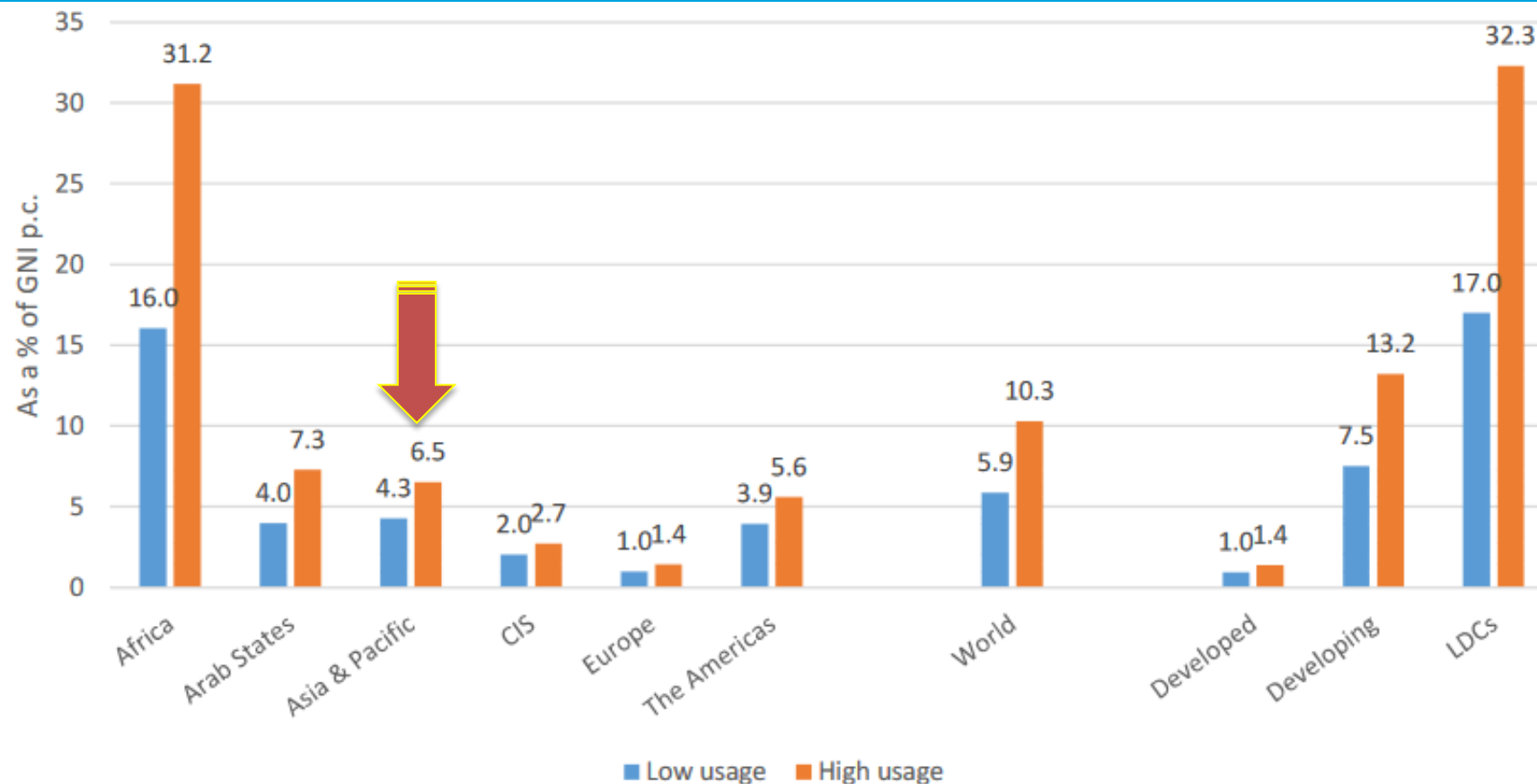
Conclusion

Our Problem Graphically: Connectivity



Our Problem Graphically: Affordability

Mobile-data-and-voice baskets as a % of GNI, 2019



Note: Simple averages. Based on 182 economies for high-usage data and voice baskets and 179 economies for low-usage data-and-voice baskets for which data on prices of mobile-data-and-voice baskets in PPP\$ are available for the year 2019.

Source: ITU. GNI p.c. data are from the World Bank.

Possible interventions for Solutions

Resilient Infrastructure

- Where to achieve most Impact?
- How Capex and which technology?
- Roll out issues
- Spectrum availability?

- Tools
- Partnerships
- Spectrum harmonization
- Regulatory regime
- Policy Interventions

Affordability

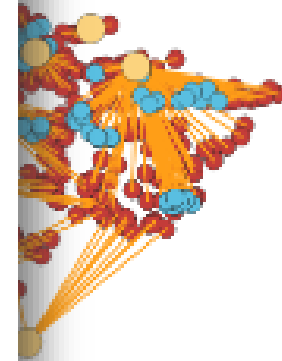
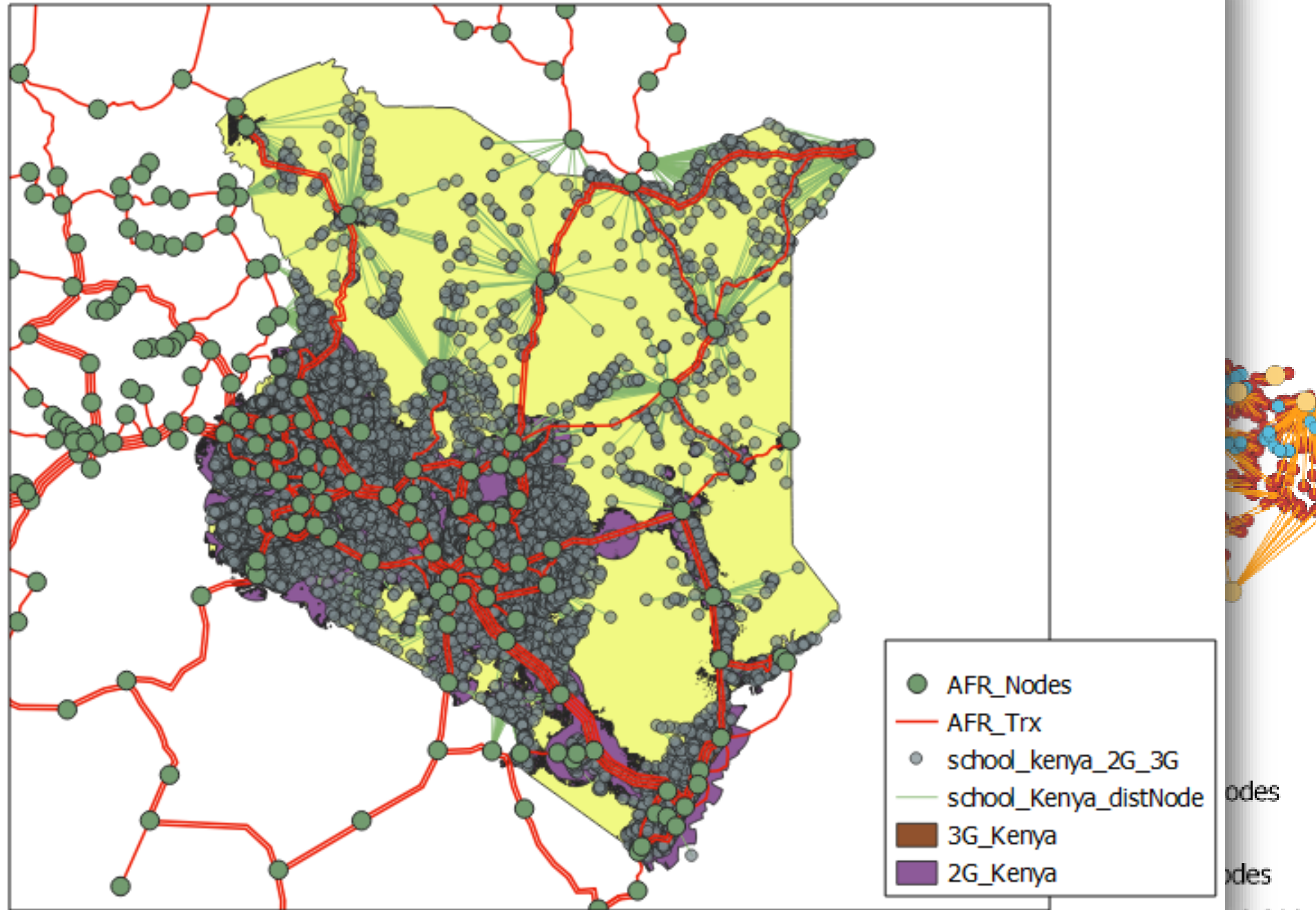
- Competition and market of scales
- Taxation, affordable devices
- Rural connectivity
- Best practices

- Policy Interventions
- Regulatory regime
- USOF
- Guidelines
- Capacity building

ONE SIZE FITS ALL SOLUTION?

**Targeted interventions needed
using
Best Practices / Guidelines / Toolkits**

Kenya - Schools/Mobile Coverage/Distance to Backbone Nodes

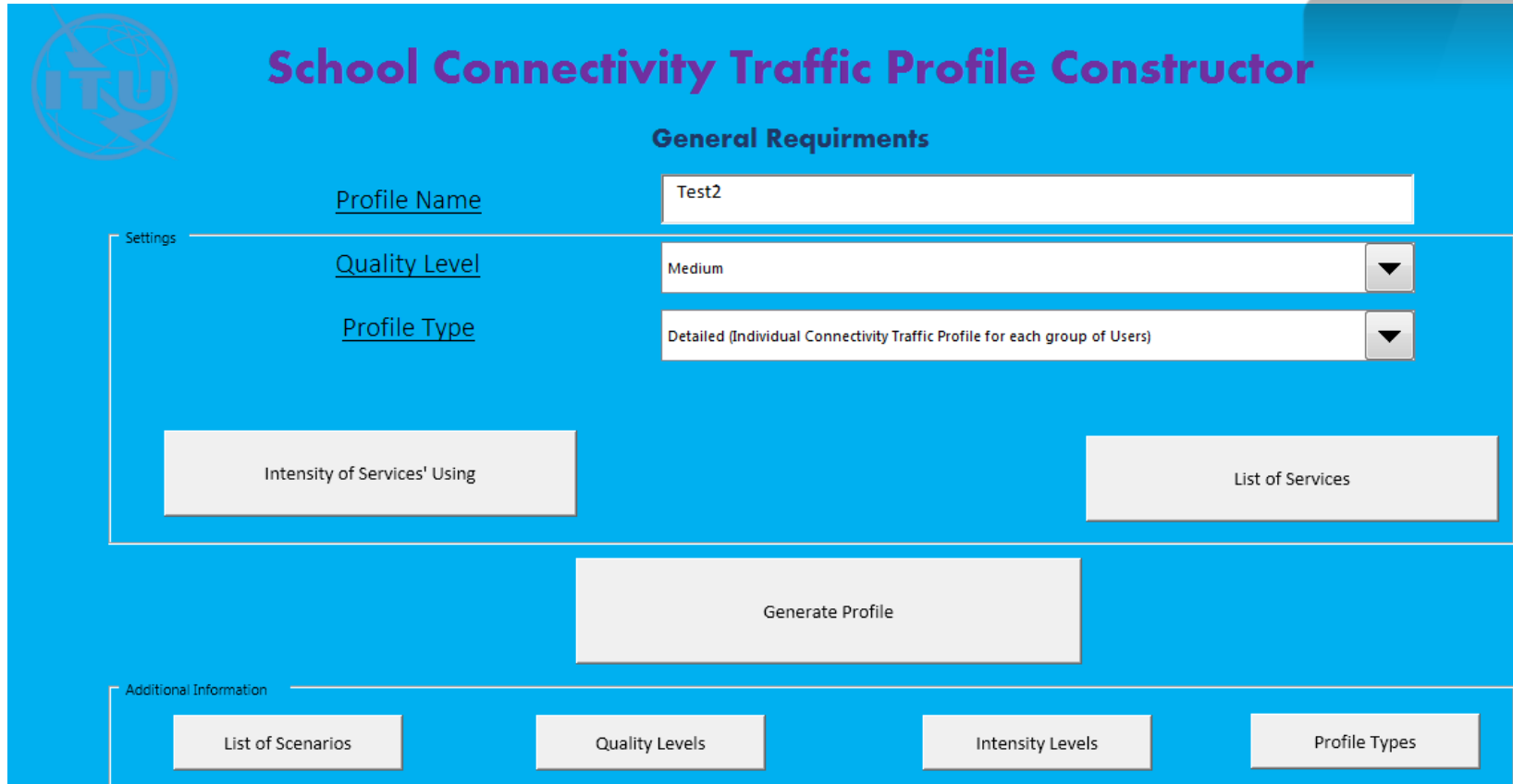


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An umbrella for various Last Mile Connectivity resources including:

- ITU Last Mile Internet Solutions Guide (October 2020)
- ITU Broadband Diagnostic Tools (October-December 2020)
- ITU courses on building, maintaining and monitoring a Last Mile network (Q2 2021)
- Additional resources on last mile connectivity from ITU and from various partners (December 2020)

Coordination and collaboration on Last Mile Connectivity resources, projects and initiatives (Q1 2021)



The screenshot displays the 'School Connectivity Traffic Profile Constructor' web application. The interface is set against a blue background and features the ITU logo in the top left corner. The main heading is 'School Connectivity Traffic Profile Constructor' in a purple font. Below the heading, the 'General Requirments' section is visible, containing three input fields: 'Profile Name' with the value 'Test2', 'Quality Level' set to 'Medium', and 'Profile Type' set to 'Detailed (Individual Connectivity Traffic Profile for each group of Users)'. A 'Settings' box encloses these fields. Below the settings are two buttons: 'Intensity of Services' Using' and 'List of Services'. A large 'Generate Profile' button is centered below these. At the bottom, an 'Additional Information' section contains four buttons: 'List of Scenarios', 'Quality Levels', 'Intensity Levels', and 'Profile Types'.

6 targeted countries In ASP

Pakistan, Bhutan, Bangladesh, Mongolia, Vanuatu, PNG.



Map schools to identify connectivity gaps



Build affordable and sustainable **Finance** models



Identify fit for purpose infrastructure to **Connect** schools



Empower digital education via appropriate Digital Public Goods

Global initiative that aims to **reinforce national digital infrastructures and ecosystems** to support the COVID-19 response, recovery and preparedness for the **'new normal'**



Methodology

Country Assessments

Country Strategies

Pilot Projects

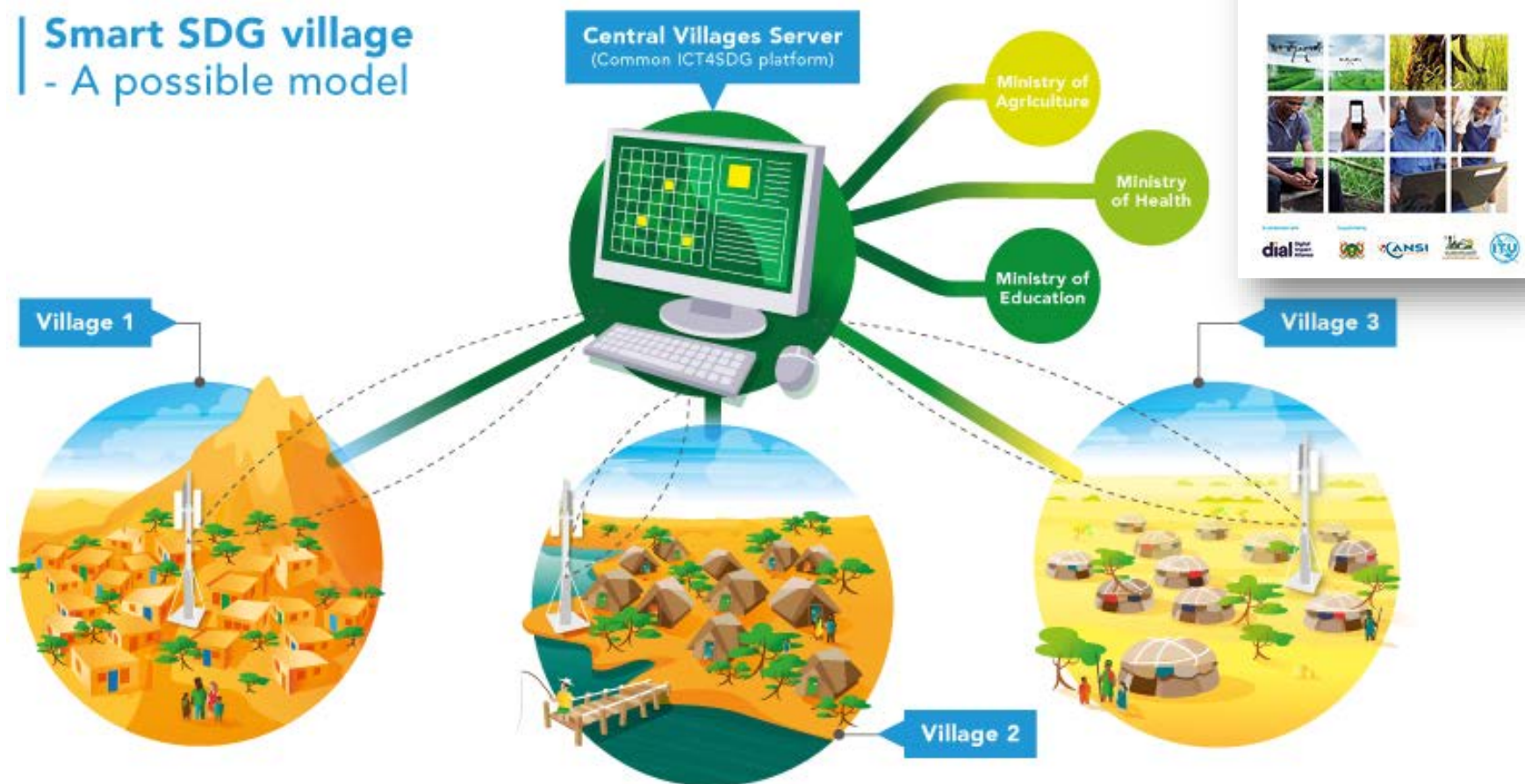
Topic-based Deep Dives

Reach out to us to:

- ❖ Support
- ❖ Partner
- ❖ Find out how you could benefit

Smart Village/island

Smart SDG village - A possible model



- **Multi-stakeholder**, cross sectoral initiative
- **Cost-effective** solution accelerate the implementation of the SDG in remote areas through an integrated development and technology platform model.
- Aim to **increase the efficiency**, security and effectiveness of public services while reducing their cost, promoting transparency and good governance, enhancing traceability of transactions, and data exchanges, among others.

Impactful Partnerships: Example

Pacific Satellite connectivity and Development of Emergency Telecomm facility



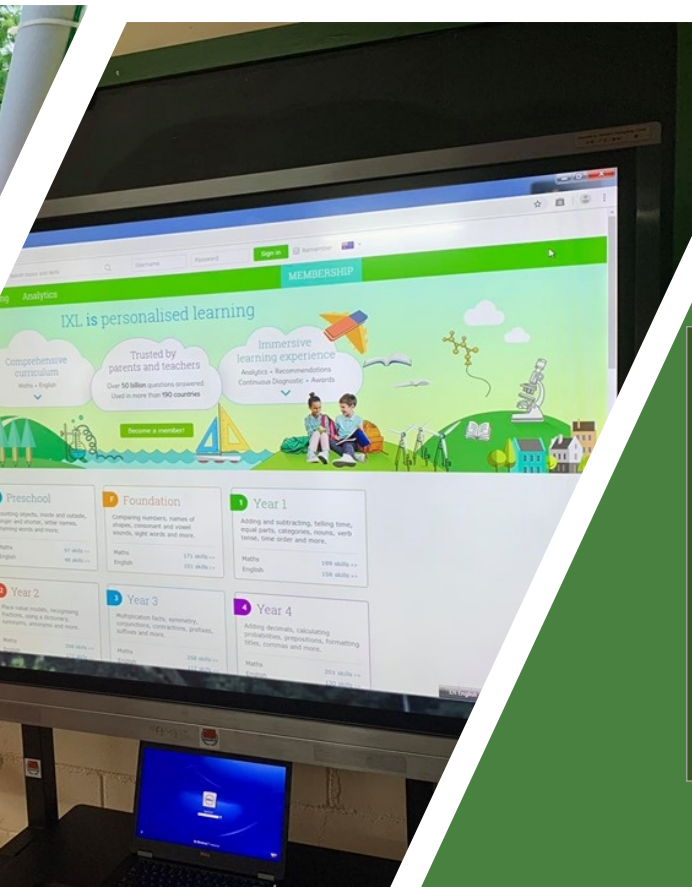
<https://www.scoop.co.nz/stories/WO1906/S00104/opening-of-the-pacific-satellite-connectivity-project.htm>

<https://www.telecompaper.com/news/kacific-powers-samoas-pacific-satellite-connectivity-project--1297007>

<https://news.itu.int/itu-and-kacific-join-forces-to-boost-emergency-telecoms-and-ict-development-in-vanuatu/>

<https://www.satelliteevolutiongroup.com/magazines/Americas-August2020/content/Digital%20Issue%20download.pdf>





Samoa School Lab inauguration



Vanuatu: Inauguration in South Malekula Secondary School by Prime Minister and launching of connectivity to health facility which received connectivity from the VSAT in the school



In **Papua New Guinea**, the ICT regulator, National Information and Communications Technology Authority (NICTA), installed the Ku-Band terminals in rural Secondary High Schools **using solar-powered solutions**, given the lack of access to a stable electricity supply. The systems are now being used by the respective schools and surrounding communities, creating a rural e-community centre.



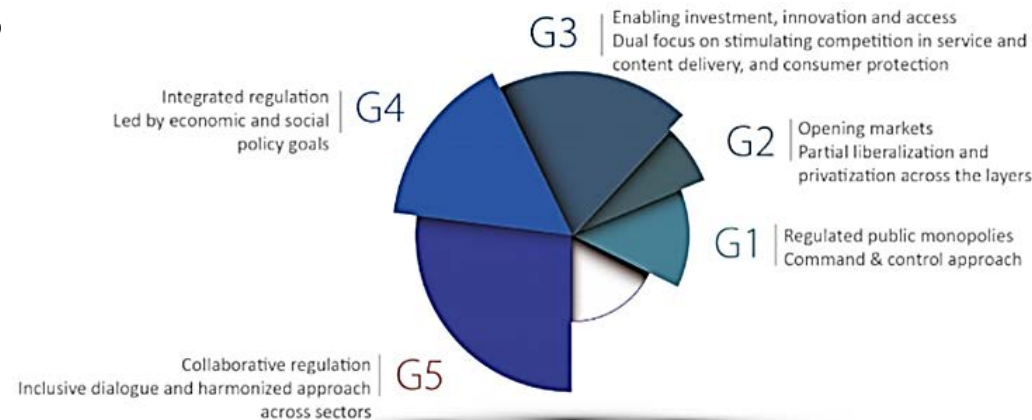
Implementation – Ka-Band in Vanuatu

Typhoon Harold April 2020

- Setting up VSAT at one of the Emergency Operations Center (EOC) in Luganville, Santo on 8th April 2020 by National ETC.
- Tower of MNO destroyed in Pentecost

Conclusions

- ✓ Improving connectivity in Asia-Pacific is a challenge but real **solution is Affordable connectivity**
- ✓ **Tools, best practices and guidelines help in planning and strategizing investments to create the biggest impact**
- ✓ **Smart Partnerships** are needed to deliver



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THANK YOU

