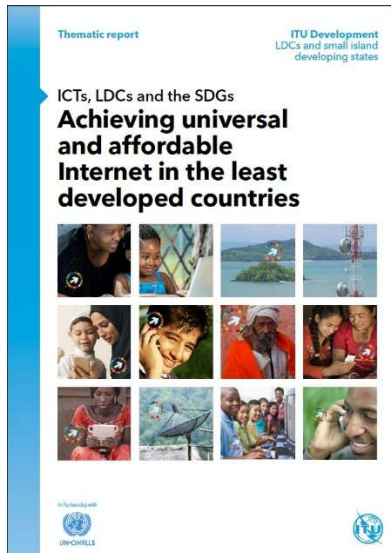




ICT ACCESS AND USE IN THE LDCs, LLDCs AND SIDS OPPORTUNITIES FOR SUSTAINABLE DEVELOPMENT AND TRADE



WSIS FORUM 2018
Monday, 19 March 2018, 11:00 - 13:00



Achieving universal and affordable Internet in the LDCs

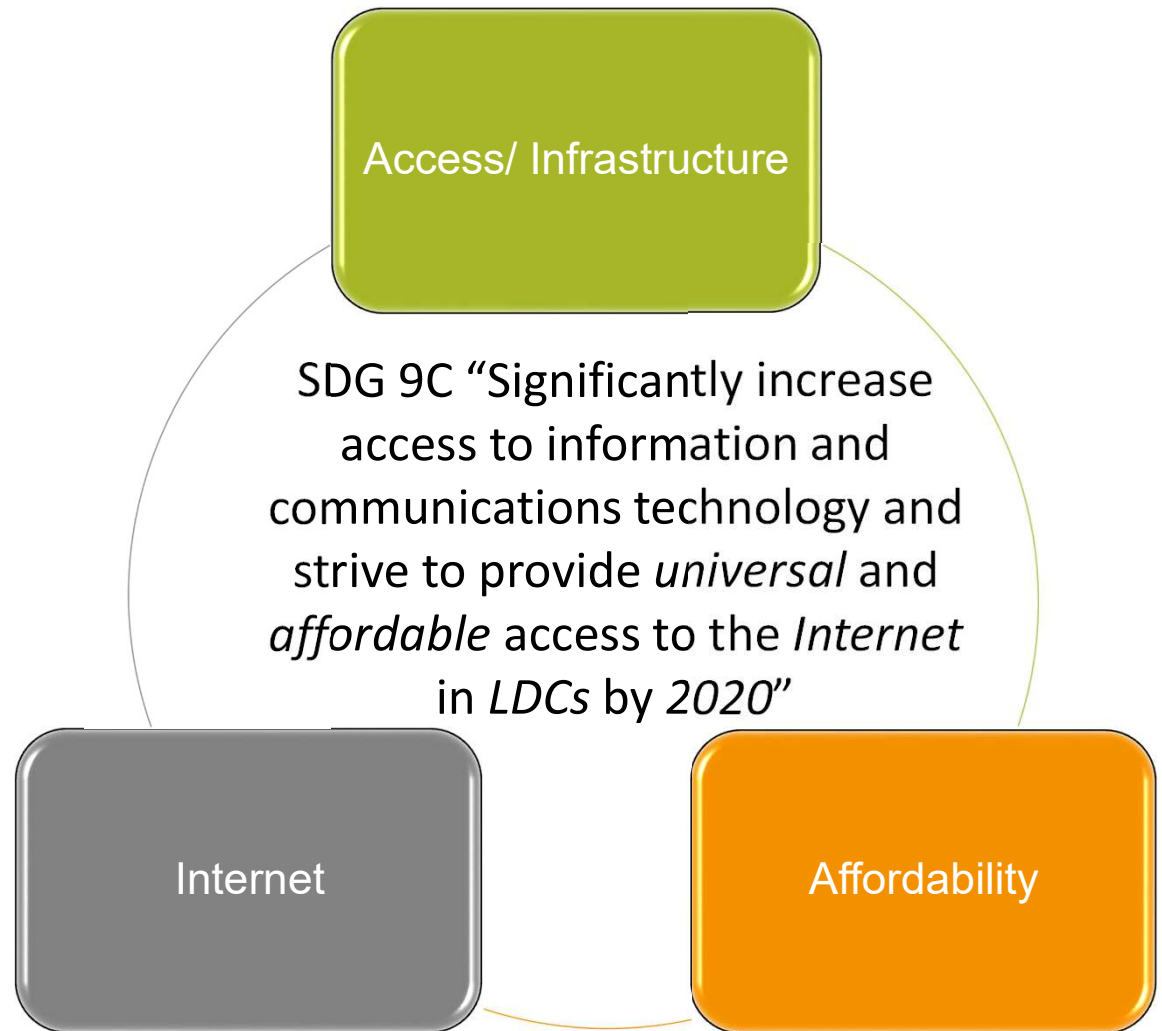
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LDCs & LLDCs SIDS

- LDCs: 47 countries highly vulnerable to economic and environmental shocks
- Includes 17 LLDCs and 9 SIDS
- LDCs, LLDCs and SIDS face related development challenges but are very different in terms of geography, population and level of economic development.





Highlights

- ICTs, in particular basic services and applications over 2G networks, have had a significant impact on development but promise from broadband is even greater
- LDCs are on track to achieve SDG 9C in terms of access & affordability
- Internet use expected to remain low and skills remain a key barrier
- It is possible to leapfrog: sharing experiences from LDCs
- Key recommendations:
 - Competition
 - Coverage obligations & universal service funds
 - Rationalize taxation
 - Focus on digital literacy and skills
 - Achieve gender parity
 - Institutional strengthening
 - Build core infrastructure
 - Better data



Access/Infrastructure

Miles of networks:

1st: International

2nd: National backbone

3rd: User access

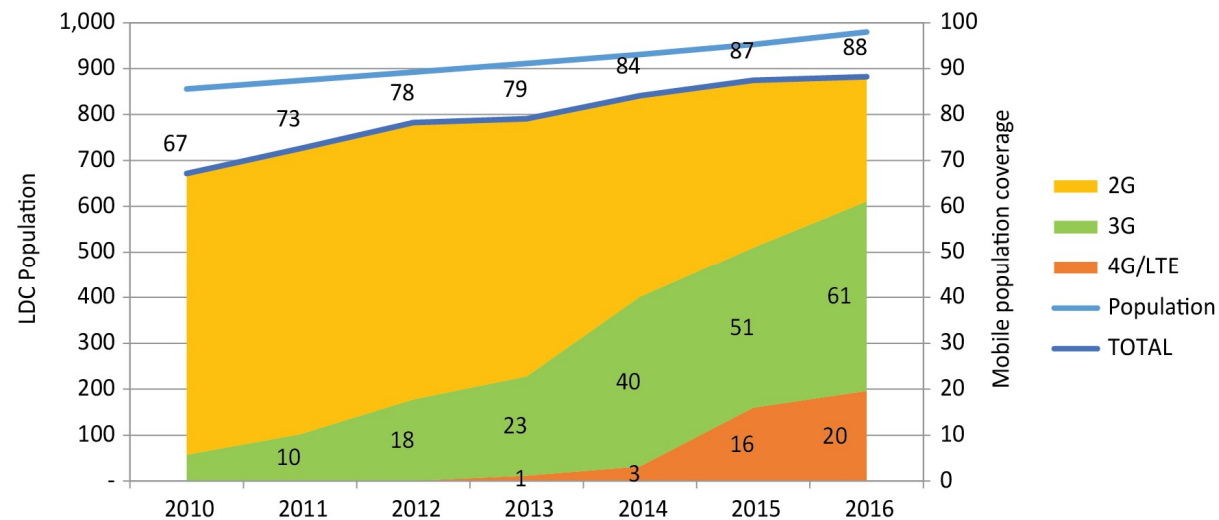
Plus “Invisible mile”



Mobile population coverage

- Narrowband Internet coverage high with remaining gaps almost all in rural areas
- 61% of population covered by 3G mobile broadband network
- 26 LDCs have launched 4G

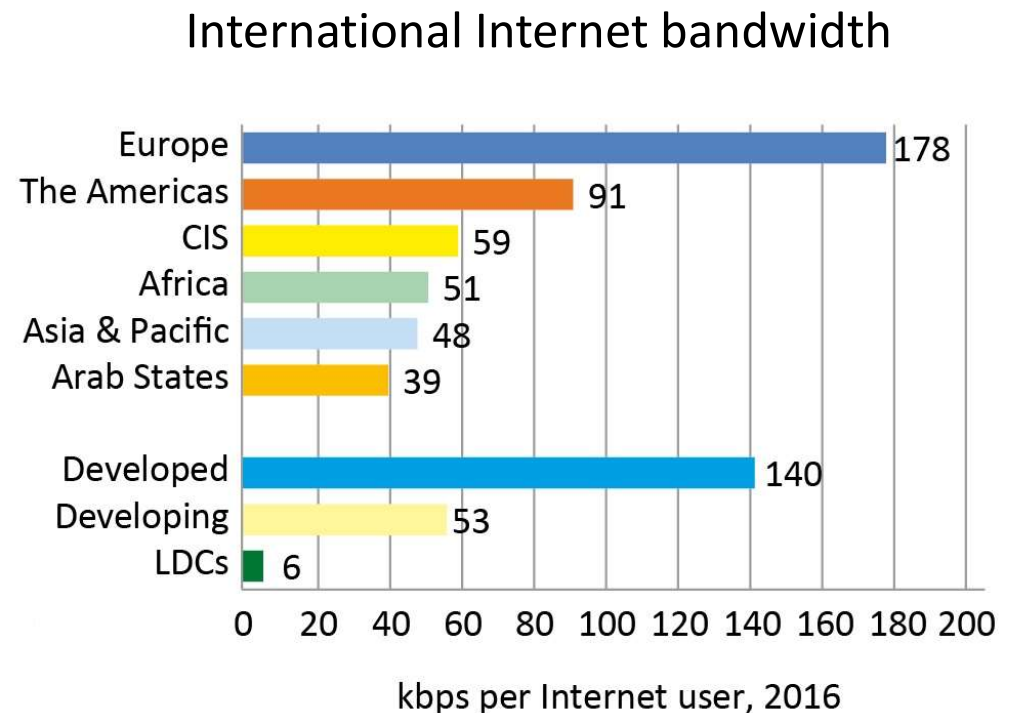
Mobile population coverage in LDCs





Explosive growth in access to submarine cables and national backbone infrastructure

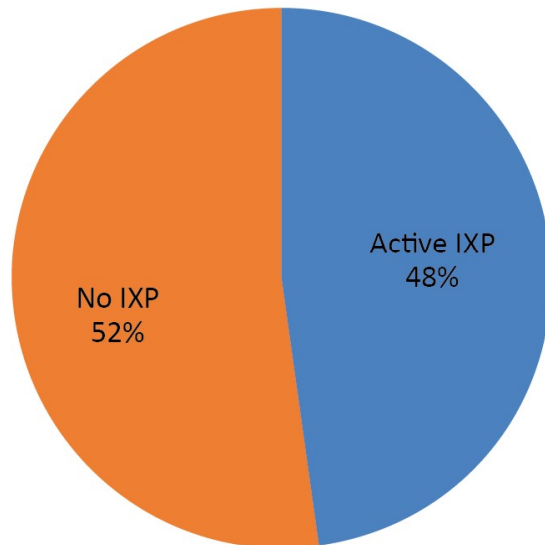
- All but 6 (out of 30) sea-facing LDCs have landing stations
- Almost all LLDCs have fiber optic cable cross-border terrestrial links
- Regional economic communities for policy on cost-based & open access to submarine cables
- Unconnected SIDS are planning access to submarine cables
- But international Internet bandwidth still lagging behind in LDCs



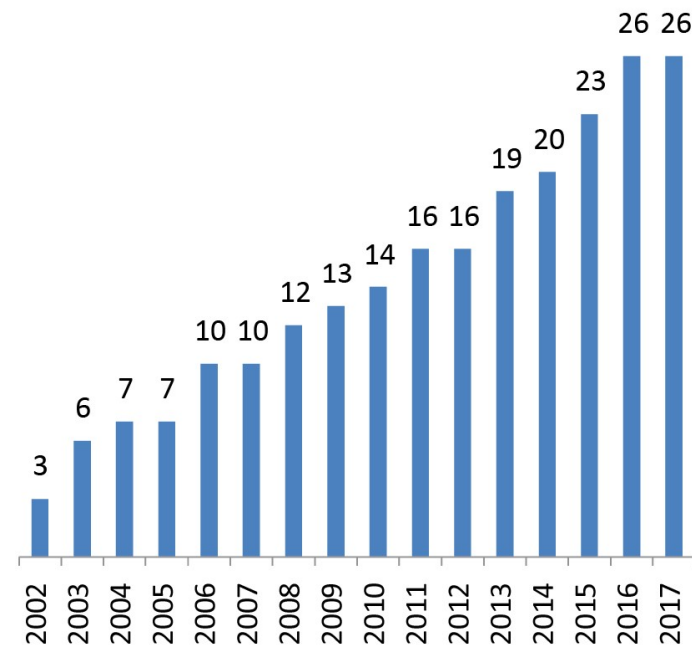


Building core Internet infrastructure

Percent of LDCs with active IXP, 2017



Number of IXPs in LDCs



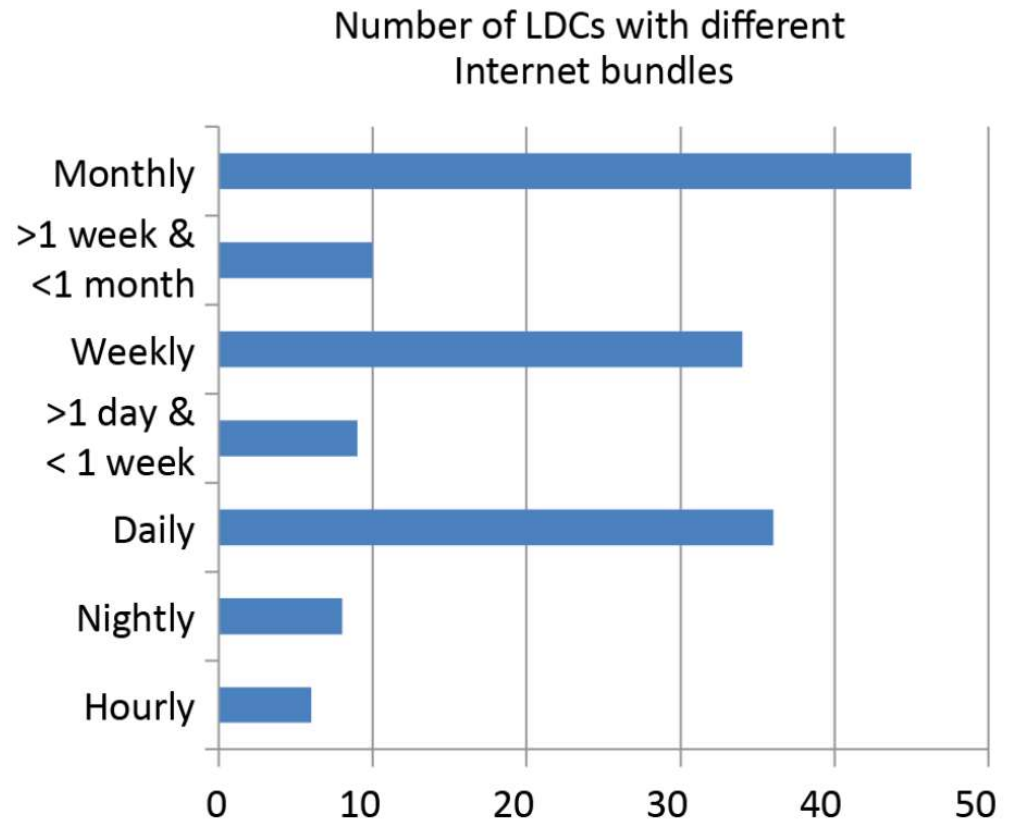


Affordability



Understanding affordability

- Despite price drops, international comparison (ITU price basket) show that broadband remains unaffordable to many
- Handset remains key barrier to entry
- Governments can help bring down prices by driving competition and limiting taxes
- Not everybody uses Internet every day for a month so flexible tariffs help with affordability:
- Operators have adapted to low-income users and offer a wide variety of different plans





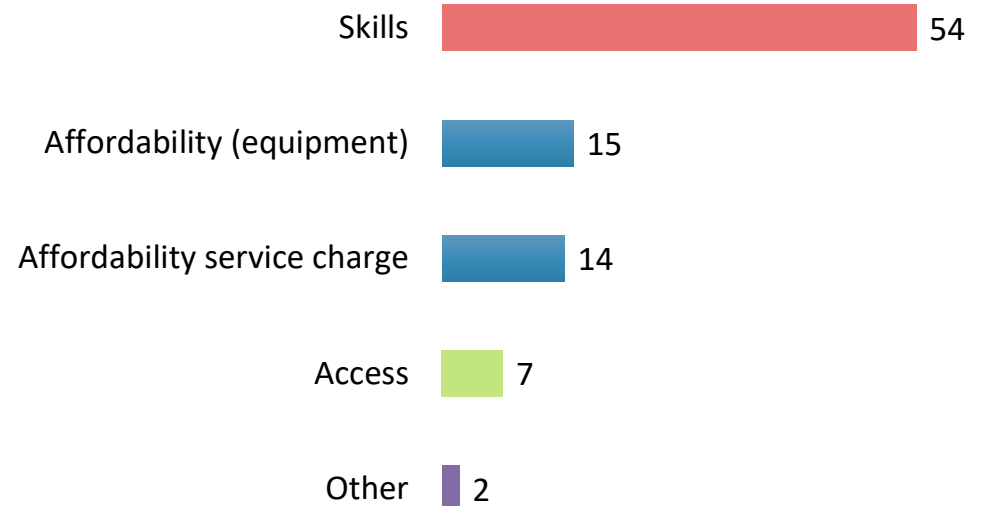
Skills



Skills emerging as leading barrier

- Lack of digital literacy emerging as a leading barrier to Internet use in many LDCs
- Digital skills are closely linked to educational attainment
- Secondary school enrolment in LDCs (43%) lies well below world average (76%)
- Strategic ICT sector plans need to highlight the role of, and make link to educational policies
- Gender digital divide must be addressed to ensure universality aspect of SDG 9C

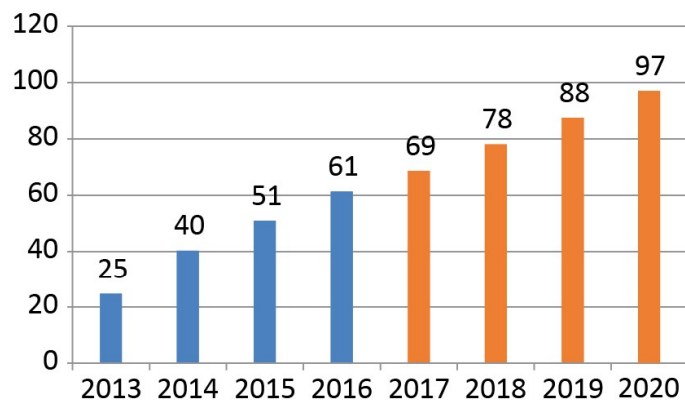
Zambia, Barriers to Internet use, 2015



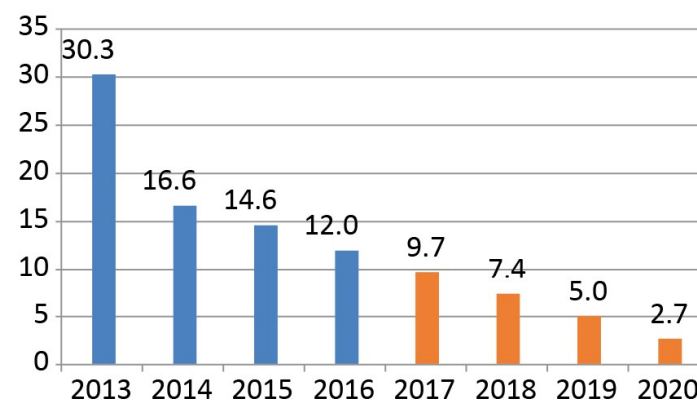


Target 9.c in 2020

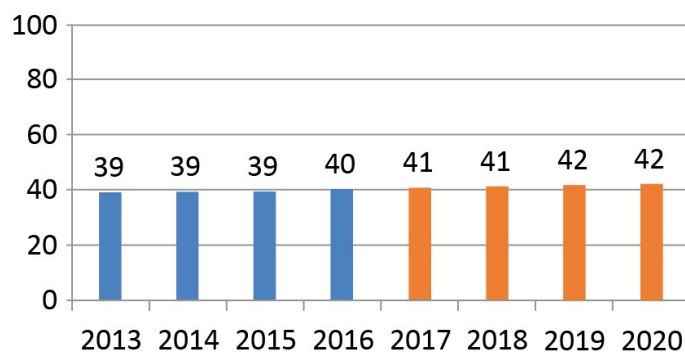
3G coverage (% of population)



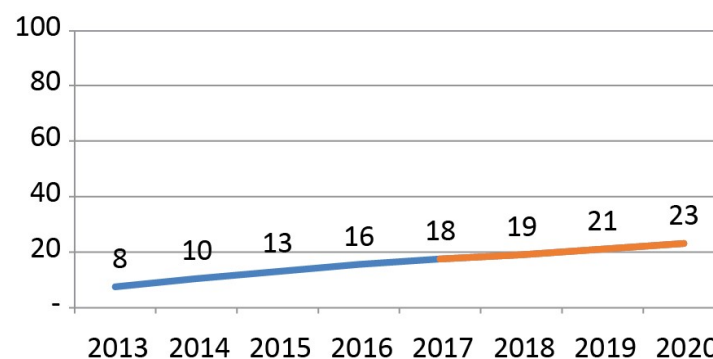
Mobile broadband 500 MB (% GNI)



Gross secondary school enrolment
(% of age group)



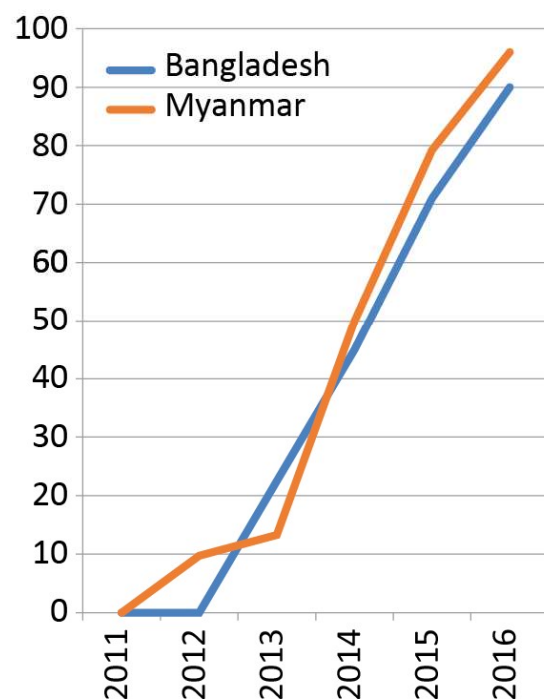
Internet use (% of population)



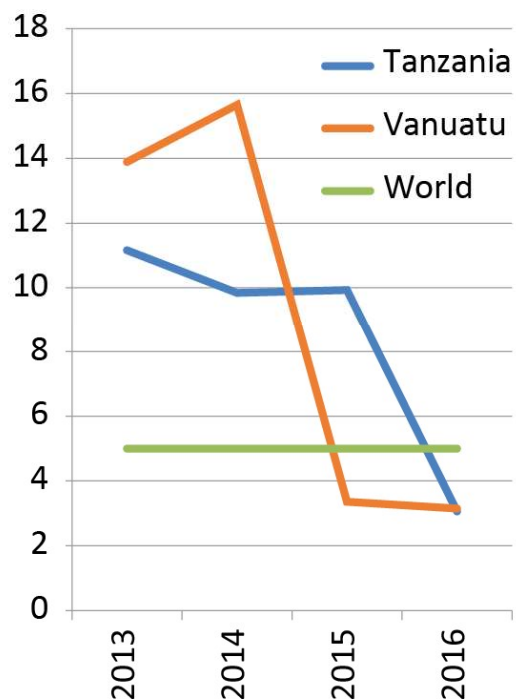


It is possible to leapfrog

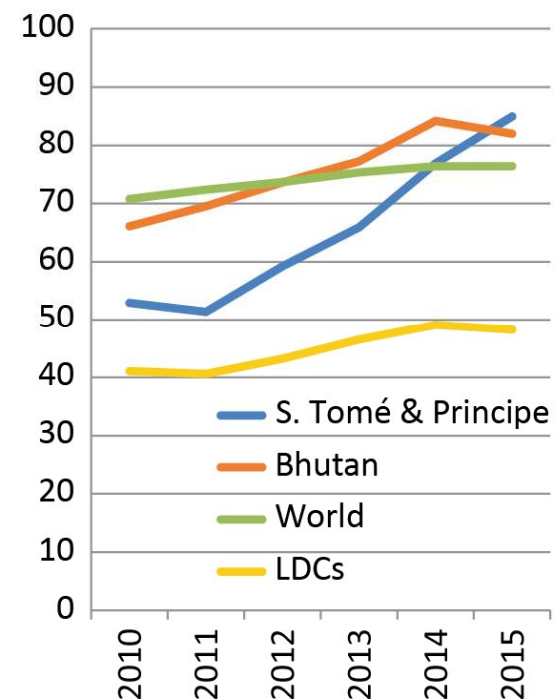
3D coverage (%population)



500 MB (% of GNI per capital)



Gross secondary school enrolment



3 dimensional framework to guide policy makers

