



Regional Telecom Connectivity PROGRAM

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Committee, Dhaka***

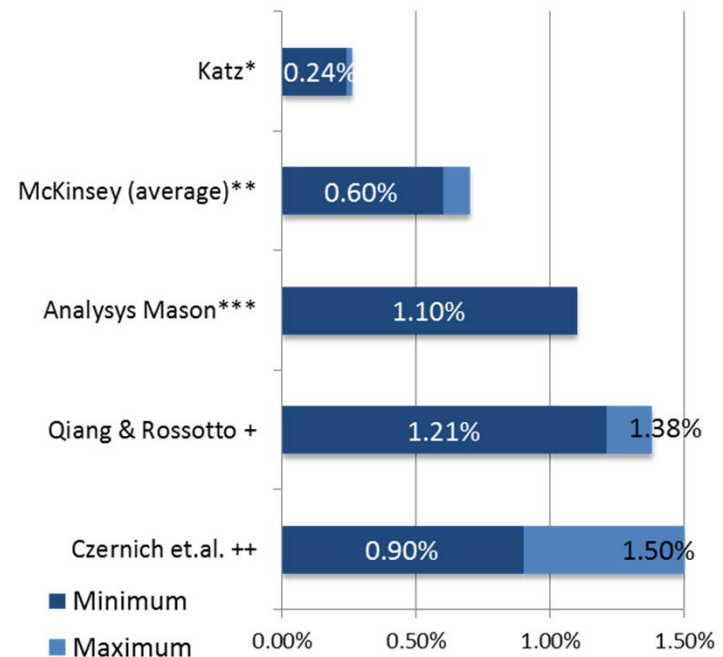
**Transport and ICT Global Practice
World Bank**

Broadband contributes to growth, employment, innovation, trade

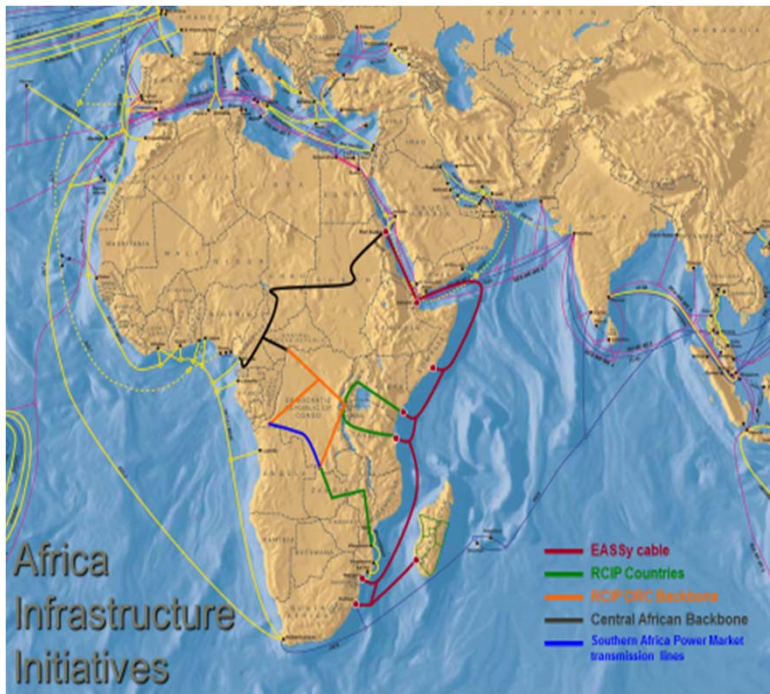


- **10% increase in broadband penetration** yields at least **1% increase in GDP growth** (see chart)
- **1% increase in Internet penetration** correlates with **4.3% export growth** (Wallsten, 2007)
- **20% of all jobs will be contracted online in 2020** (oDesk) - SMEs that integrated the Internet into their businesses created twice as many jobs as the average (McKinsey Global Institute)
- Enables Smart infrastructure, including Intelligent Transport Systems, and Smart Grids
- Health and education programs (distance learning, eHealth, digital technologies for learning)
- Telecom networks underpin a majority of global trade in goods and services: 80% of the production of a 787 Dreamliner is outsourced to contractors linked to Boeing through a complex supply chain enabled by IT (McKinsey Global Institute)

Impact on GDP of an increase of 10% in broadband penetration

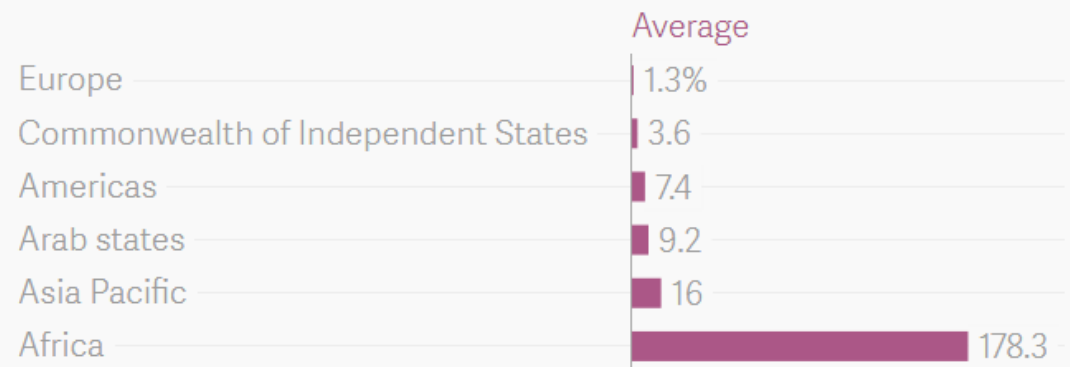


Africa Regional Broadband Programs



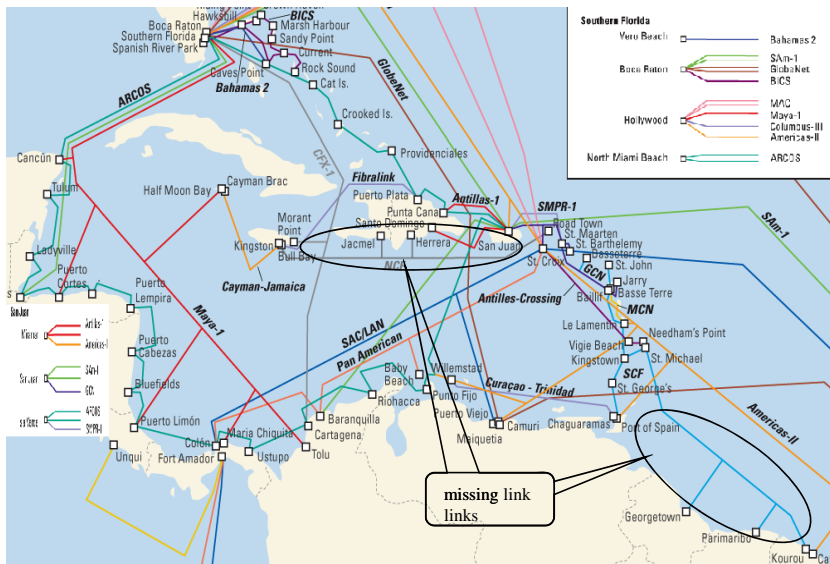
- Full Connectivity Solutions at International, Regional, Cross-border, National levels leveraging Public & Private funding and alternative infrastructure
 - RCIP (East/Southern) - \$424m
 - EaSy Submarine Cable – \$235m (\$32m IFC)
 - Central Afr. Backbone - \$215m
 - West Africa Reg. Com. Infrastructure - \$305m
 - Drastic drop in Internet wholesale prices; connected Africa to the world

Broadband prices as percentage of gross national income per capita



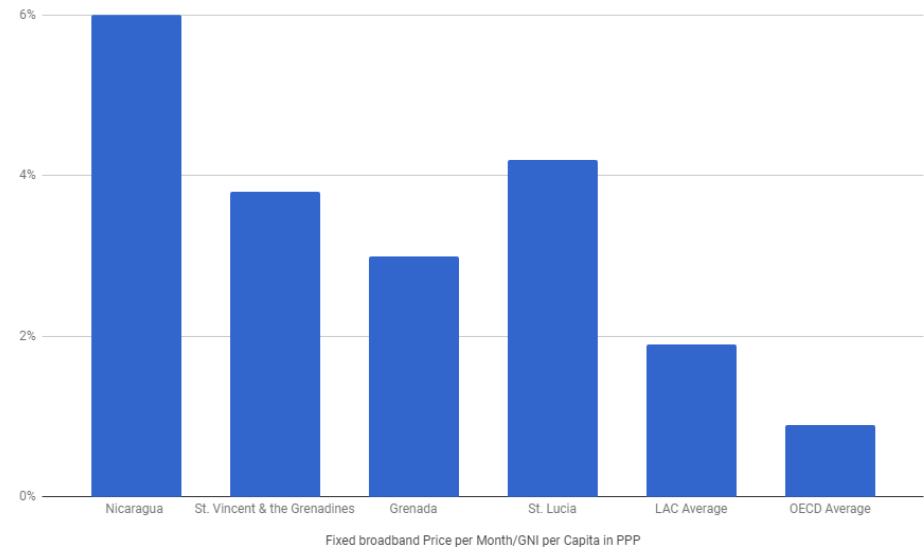


Caribbean Regional Communication Infrastructure Program (CARCIP)



CARCIP program structured in several phases:

- Phase 1: 3 countries, \$25 million
- Phase 2: Dominican Republic, \$30 million
- Phase 3: additional countries, including Caribbean part of Central America



Significant improvement in ICT infrastructure in the region, but gaps remain:

- National level: little investment in broadband networks beyond main urban centers, especially in the form of fiber backbone
- Regional Level: Inadequate connectivity between countries
- International level: Most countries served by only one alternative international cable

Pacific Regional Connectivity Program

- Tonga-Fiji Connectivity Project: IDA US\$17.2m (2012), cofinanced with ADB, Australia-- *827km cable connecting Nuku'alofa, Tonga to Southern Cross Cable Network in Suva, Fiji, completed Aug2013*
- Palau-FSM Connectivity Project: IDA US\$47.5 million (2014), cofinanced with ADB (+additional financing for Kosrae, approved in May 2017)
- Samoa Connectivity Project: IDA US\$16.0m (2015), cofinanced with ADB-- *Cable supply and installation: to be operational by end- 2017*
- Fiji Connectivity Project; IBRD US\$6.8m (approved Dec 2016)
- Kiribati Connectivity Project IDA US\$20m (approved May 2017) cofinanced with ADB--*Procurement of cable system (ready for service 2019)*
- Tuvalu Connectivity Project –amount. & cofinancing US\$10m + (planned 2018); may include cable connection

ICT HUB between East-West, North-South



Conditions are ripe for regional collaboration:

Afghanistan
Kazakhstan
Kyrgyzstan
Tajikistan
Turkmenistan
Uzbekistan



- Open economy
- Competitive telecom sector
- Eurasian EU
- Links to China, Central and South Asia
- Qualified IT professionals
- Access to cheap green energy
- Strong political will
- **BUT we must work collectively with regional partners**

Thank you!



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