

World Bank regional broadband programs and proposed Central Asian regional fiber optic network (CARFON)



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Program Leader

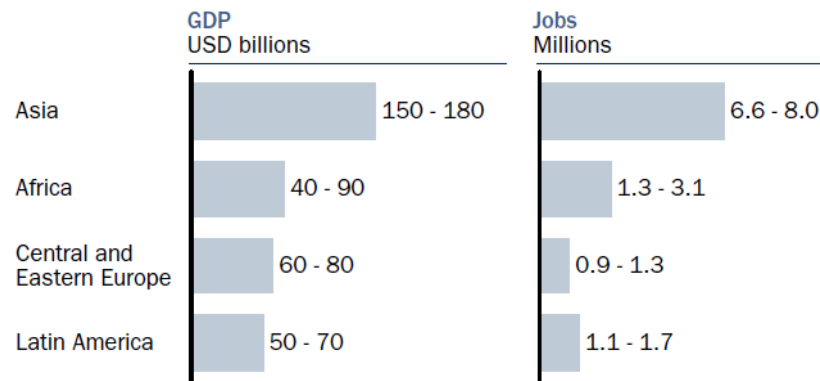
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Outline

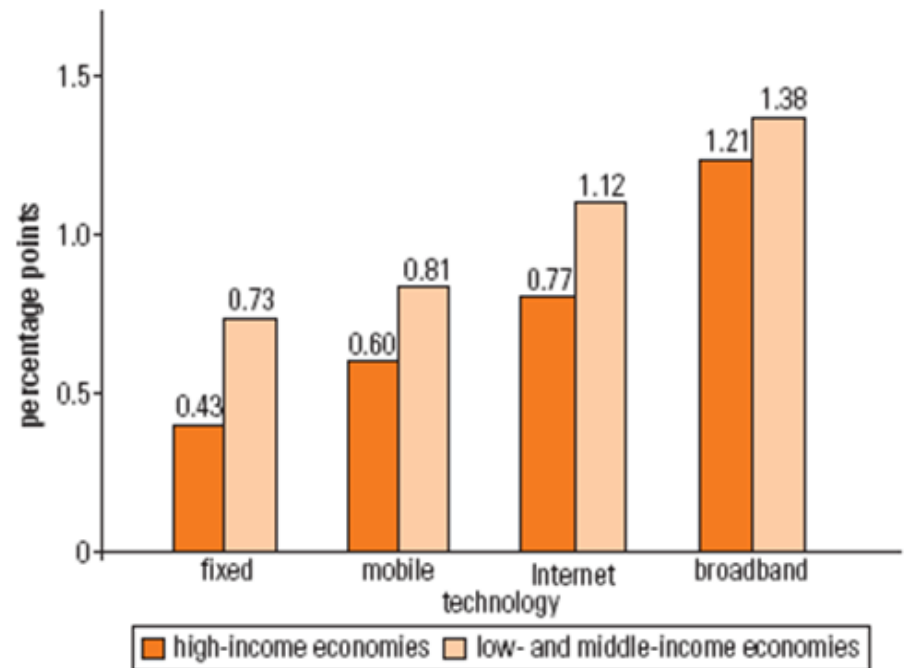
- World Bank Group Regional Broadband Programs:
 - Africa Regional Broadband Programs
 - Caribbean Regional Communications Infrastructure Program (CARCIP)
- Proposed Central Asia Regional Fiber Optic Network (CARFON)

Rationale for Regional Broadband Programs

- **Broadband contributes to growth, employment, innovation, trade**
- **Regional broadband integration multiplies those impacts and especially for landlocked countries**

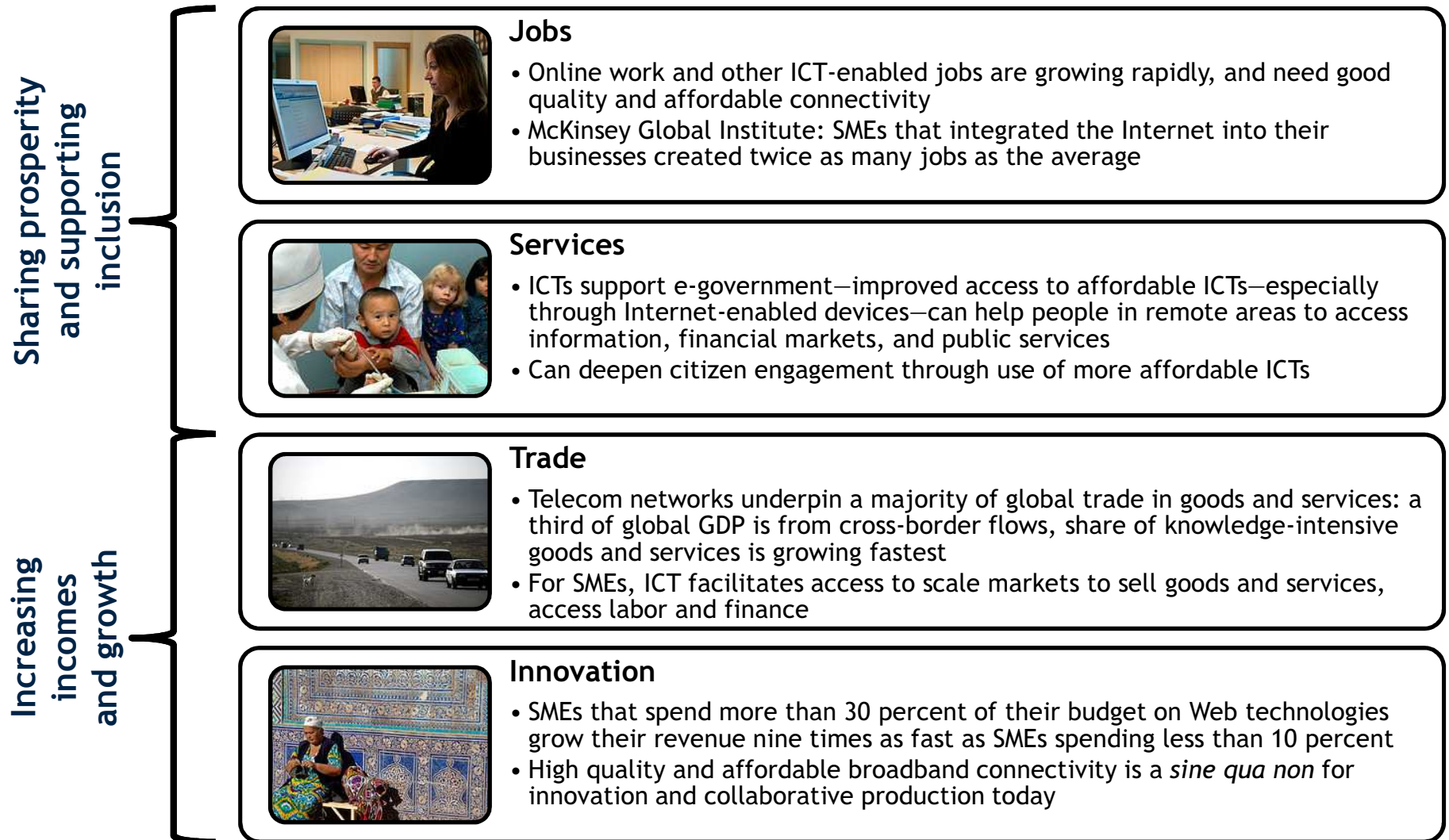


** McKinsey & Company, Mobile broadband for the masses, February 2009, p. 4

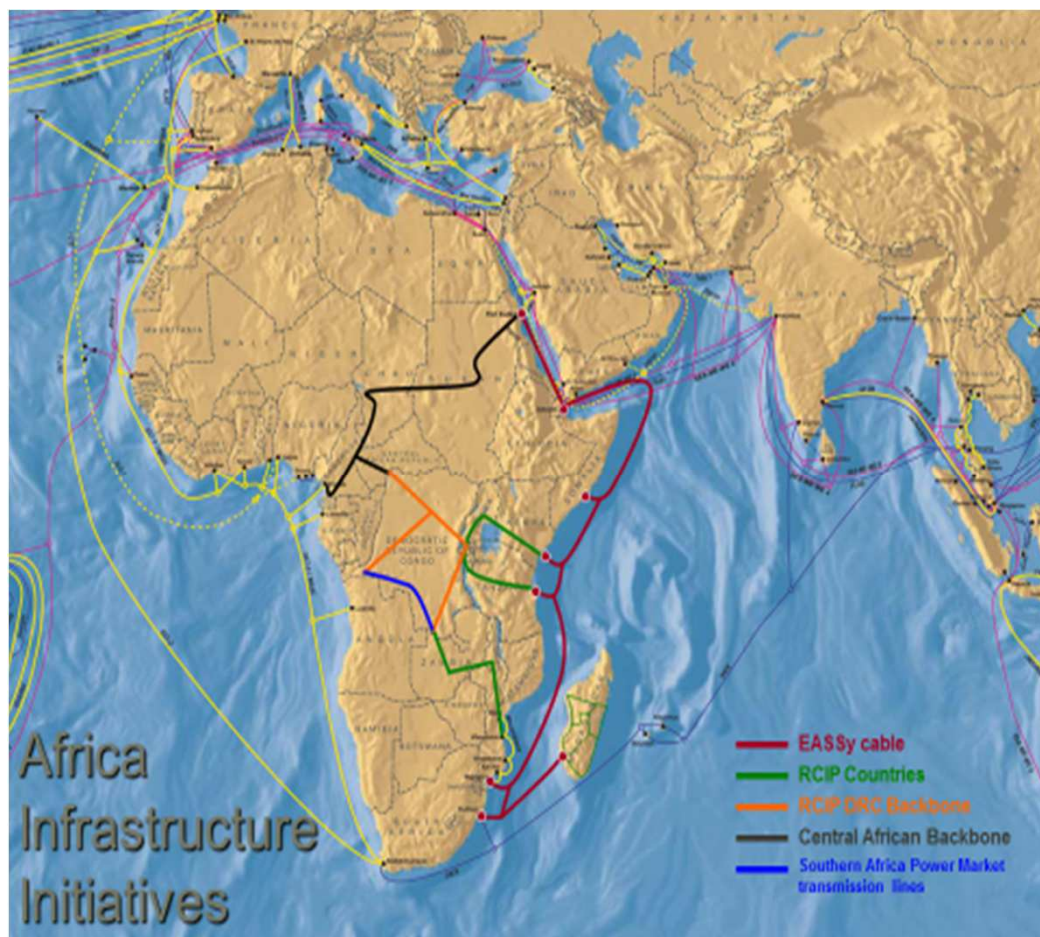


Source: World Bank (2009), ICT4D

Improved Internet connectivity = Economic benefits



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
 - EaSSy 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

Africa Regional Communications Infrastructure Program (RCIP)

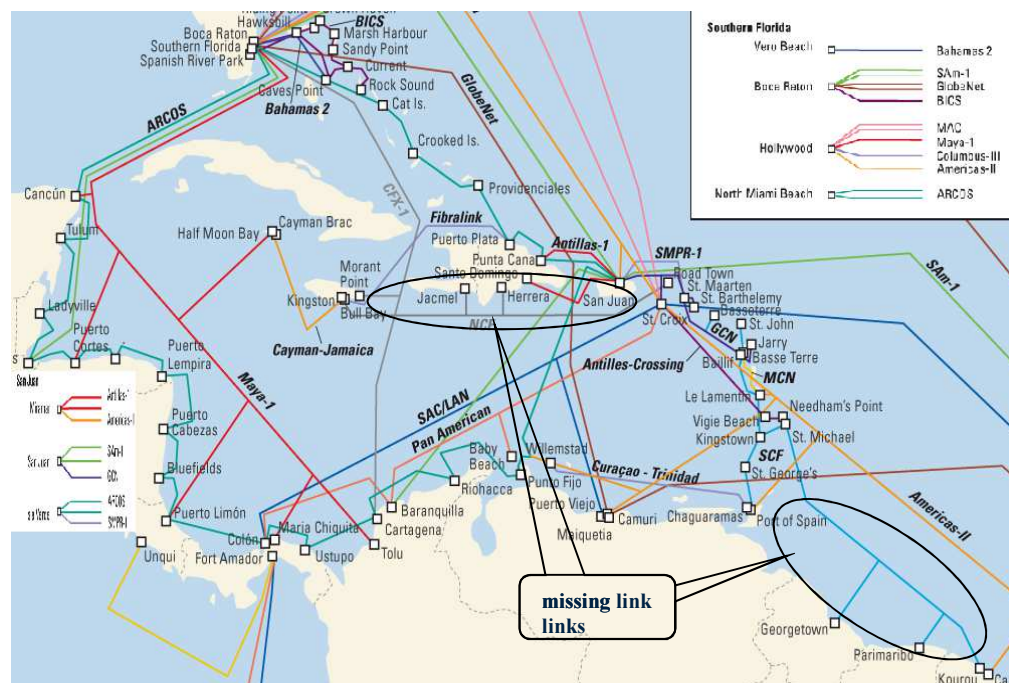
- **Programmatic Approach (up to \$424 million):**
 - **Kenya, Burundi and Madagascar in Phase 1 (\$165 m)**
 - **Other countries up to 25 joining on a readiness basis**
- **4 Main components (“Menu of options”):**
 - **Enabling Environment Component**
 - **Telecom Regulation**
 - **Connectivity**
 - **Regional backhaul and national backbone networks**
 - **Government pre-purchase of capacity – wholesale services for use in schools, hospitals, targeted user groups**
 - **Landing stations**
 - **Rural ICT**
 - **Transparency / Traffic Stimulation Component**
 - **e-government**
 - **IT industry development**
 - **Connectivity for BPO industry**

Caribbean Regional Communications Infrastructure Program (CARCIP)

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

Governments realize benefits of ICT for economic growth and diversification, employment generation, competitiveness, resilience to natural disasters and overall regional integration



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

https://www.yunbaogao.cn/report/index/report?reportId=5_4246

预览已结束，完整报告链接和二维码如下：



Menu of Options – 3 components

/ Infrastructure:

Communications regulation

Connections, submarine cables, cross-border fiber links, IXPs

Core backbone networks, rural access

Government networks (GovNet), emergency communications

Innovation:

Support for IT/ITES industry

Network of IT parks and business incubators

Development: certification programs, university-industry

Knowledge exchange, diaspora knowledge

Investment financing: Venture Capital Funds

Regulation:

Regulatory framework, e-government standards,

Security frameworks

Investment in cloud infrastructure, e-security infrastructure

Development of mobile apps

Policy, credit to increase device penetration