

# A Policy Framework for Enabling Internet Access

How to bring Internet access to everyone, everywhere.



## The Importance of Internet Access

- By providing Internet access to crucial business inputs, such as capital, legal, financial and accounting services, countries are able to better compete globally.
- The Internet helps firms to sell goods and services to consumers overseas by bypassing traditional trade barriers, such as inefficient customs procedures and poor transportation infrastructure.
- The Internet can serve as a tool for conducting market research, strategic analytics, and putting businesses in touch with customers globally
- Access to technical expertise and information can help improve the agricultural sector, which employs about 40 percent of the workforce in many developing countries.
- The Internet can also be a source of finance, helping overcome the limited financial options from domestic capital markets.



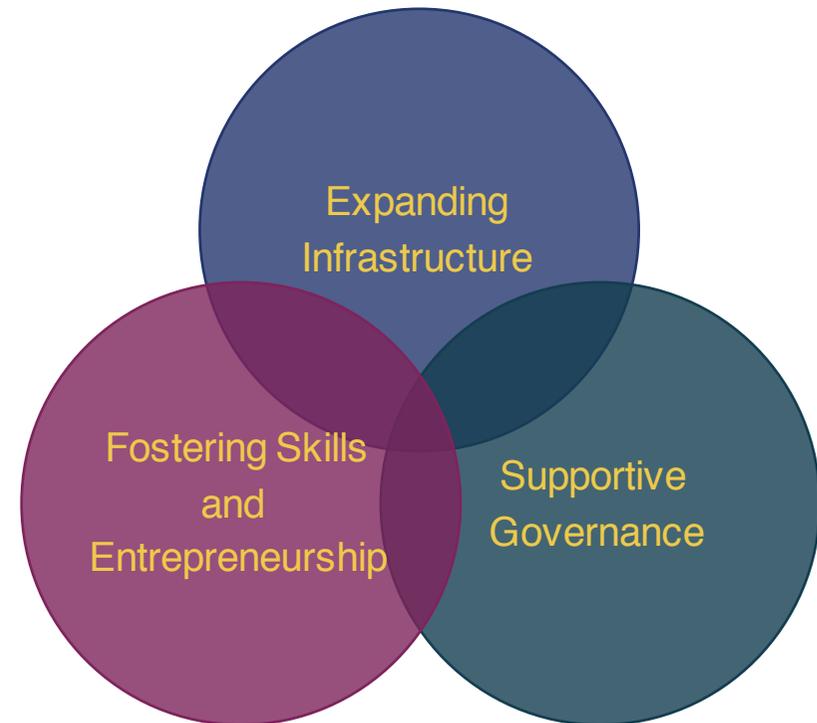
## Connecting the unconnected

There are two gaps in Internet adoption that need to be addressed:

- How to extend Internet access to people not currently covered by Internet infrastructure?
- How to attract online those who could access the Internet, but choose not to?

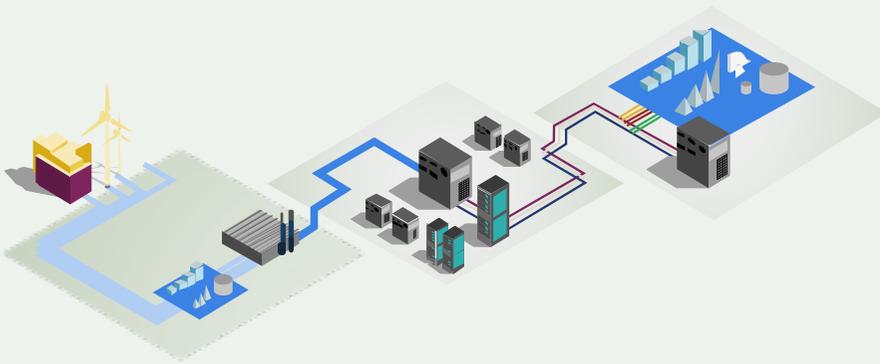
Enabling environments are built with the collaboration of multiple stakeholder groups.

Interrelated policy areas



## Expanding access infrastructure

Policies to promote access infrastructure must address the entire network, from international connectivity to the last-mile connection that enables users to go online.



- **Remove barriers** to investment and competition;
- Promote open access, and create **transparent and affordable licensing processes and procedures** at all levels of infrastructure;
- **Work collaboratively** with neighboring governments to harmonize and coordinate regional cross-border interconnection and licensing regimes;
- **Price rights-of-way access at cost** and encourage dig-once policies;
- Ensure adequate wireless **spectrum is available**;
- **Support community-based access initiatives**;
- **Avoid burdensome taxes** on end-user services and devices which stifle demand; and,
- Ensure policies are flexible and **technology neutral**.



## Fostering skills and entrepreneurship

A strong local ecosystem of skilled, trained, and engaged people who can create, sustain, and maintain infrastructure and online content is critical to the development of the Internet.



- **Support capacity building** by introducing appropriate classes on IT engineering and programming throughout the educational system.
- Provide **general Internet skills training** to both current Internet users and those yet to go online.
- **Facilitate local innovation and entrepreneurship** through innovation hubs, and have balanced finance, taxation, and intellectual property protection policies.
- Ensure that local data centers, hosting providers, and content developers are considered in government procurement processes so they can **build local experience**.
- Encourage all access and content providers in the country to **participate in community-driven peering**, interconnection, and IXP discussions.

## Supporting an enabling environment for Internet use and investment

Political  
Leadership

Multi-  
Stakeholder  
Approach

Legal Certainty

Domestic  
Procurement  
Preference

Regulatory  
Reform

Collaborative  
Security  
Approach

Critical  
Infrastructure  
Improvements

Favorable  
Investment  
Climate

Domestic  
Payment System

Fair Taxation



## The Rwanda Experience

- For many countries, including Rwanda, the majority of content accessed by local users is hosted abroad, mainly in the US and in Europe.
- One Rwandan web developer reported that they saved over USD \$100 per year by hosting overseas.
- This resulted in a cost of over USD \$10,000 for ISPs to deliver the content back to users in Rwanda.
- It also took over 30 times longer for users to download compared to locally accessible content.
- Akamai, a commercial content delivery network, began providing content in Rwanda through a local cache. Data showed that demand doubled within 3 months because it loaded faster.
- A Google Global Cache placed in Rwanda helped increase local traffic exchange by fourfold.

*Promoting Local Content Hosting to Develop the Internet Ecosystem, 2015 <http://www.internetsociety.org/doc/promoting-local-content-hosting-develop-internet-ecosystem>*



## Afghanistan Case Study

- Afghanistan shows quite clearly the potential for mobile payments and mobile money as well as the challenges.
- M-Paisa, a joint venture payments service provider between Afghanistan's biggest telco Roshan and Britain's Vodafone, was introduced in the country in 2009 as a trial to pay the Afghan national policy with mobile money instead of cash.
- Direct electronic payments meant that middlemen were no longer able to skim cash from legitimate salaries.
- Mobile payments also resolved the security risk of transporting large amounts of cash.
- By 2013, M-Paisa had more than 1.2 million subscribers.
- Western Union has also signed an agreement with Roshan to enable international money transfers to be sent directly to M-Paisa mobile subscribers in Afghanistan.
- M-Paisa has also created the opportunity for government and NGOs to distribute aid directly to Afghans.



# Thank you.

Read the policy framework:

[www.internetsociety.org/doc/policy-framework-enabling-internet-access](http://www.internetsociety.org/doc/policy-framework-enabling-internet-access)

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