Innovative Approach for Rural Broadband Delivery
Haiti Rural Broadband Initiative

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Inveneo Highlights

• Non-profit based in San Francisco
• Founded in 2004 by Silicon Valley technologists
• Empower rural, underserved communities through information & communications technology (ICT)
• Sustainable solutions for challenging environments
• Focus on appropriate technologies – low power computing and low-cost communications infrastructure
• Serve organizations (NGOs, governments, educational & healthcare etc.) through local partnerships
• Build local capacity through IT & business skills training
Case Study: Haiti

- Similar size and population as Rwanda (10M pop, 28,000 km²)
- 2 mobile carriers and 3 ISPs
- Voice coverage for 80%+ of the population
- 3G coverage only in the capital. ISPs have very limited coverage outside of the capital only in some of the secondary towns
- In January 2010 a large earthquake devastated much of the capital and surrounding areas – Inveneo helped reestablish communications and provide broadband to first responders
- Inveneo’s goal was to provide long-term impact – identified the need for broadband in rural areas
Phase 1 – Emergency Relief

- **After 8 Days**: Internet connectivity to 8 major NGOs re-established in via long-distance WiFi and VSAT

- **After 14 Days**: Connectivity transitioned to terrestrial broadband provided by local ISPs

- **After 35 Days**: Network completed serving 18 NGOs, 2000+ end-users, 35 locations, support by local ICT company. Providing 25Mbps

- **After 120 Days**: Transitioned network to local ICT partners
Building Haiti Back Better

- Deploy economically sustainable broadband to un-served areas

- Serve Organizations with high quality broadband

- Partner with local ISPs, MNOs and entrepreneurs to build local delivery capacity and financial opportunity

- Enable rapid rebuilding and a path to rural economic opportunity

- Deliver ICT centers and connectivity to rural schools

- Deliver short term results in 12 - 18 months
Regional focus
- Rural population areas
- Farming trade centers
- Schools and heath care

Phase 2 - Rural Broadband Network Regions
Phase 2 – Local Capacity Building

- Training 60 entrepreneurs
- Delivering connectivity to 20 population centers covering 20% of the population
- Connecting 200+ orgs
- Transforming 40 schools into ICT enabled learning centers
- Generating 1M+ revenue into the local ICT economy annually
- Accelerating economic opportunity
- Cost: ~$2M
Shared Network

ISP 1

ISP 2

ISP 1

NOC

Point to Point link
40km +
100 Mbit
Today

**Demand Guarantees**
Identification of network anchor tenants to ensure network utilization

**Low-Cost Technology**
Use of low-cost networking technology & existing assets, reducing both capital and operating costs

**Open Access w/ Local Partners**
Partnering with local service providers to reach users, ensuring broad accessibility

**Capacity Building**
Use of local entrepreneurs to deliver and support the network creating an educated workforce across communities