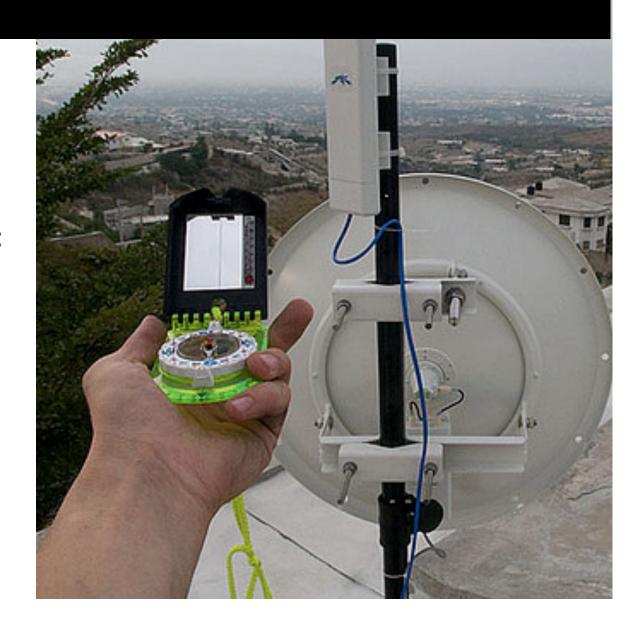
Innovative Approach for Rural Broadband Delivery Haiti Rural Broadband Initiative

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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

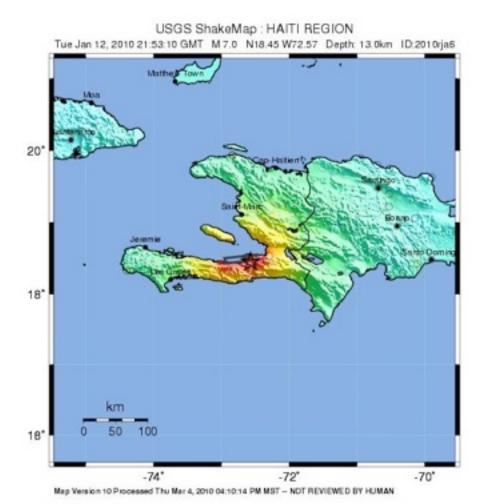




- Similar size and population as Rwanda (10M pop, 28,000 km²)
- 2 mobile carriers and 3 ISPs
- Voice coverage for 80%+ of the population
- 3G coverage only in the capital. ISPs have very limited coverage outside of the capital only in some of the secondary towns
- In January 2010 a large earthquake devastated 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





PERCENED	Notfelt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
POTENTIAL	none	none	none	Very light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy
PEAK ACC (%g)	<.17	.17-1.4	1.4-3.9	3.9-9.2	92-18	18-34	34-65	65-124	>124
PEAK VEL (om/s)	<0.1	0.1-1.1	1.1-3.4	3.4-8.1	8.1-16	16-31	31-60	60-116	>116
INSTRUMENTAL INTENSITY	-1	11-111	IV	٧	VI	VII	VIII	DX	**4

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

Phase 2 - Haiti Rural Broadband Initiative



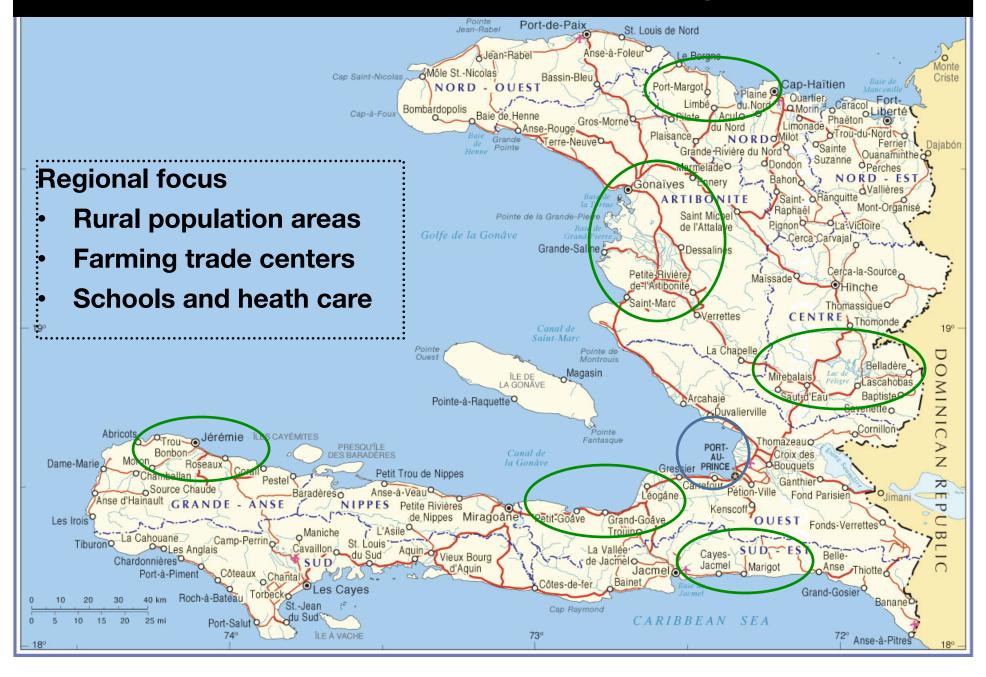
Building Haiti Back Better

- 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



Phase 2 - Rural Broadband Network Regions





Phase 2 – Local Capacity Building

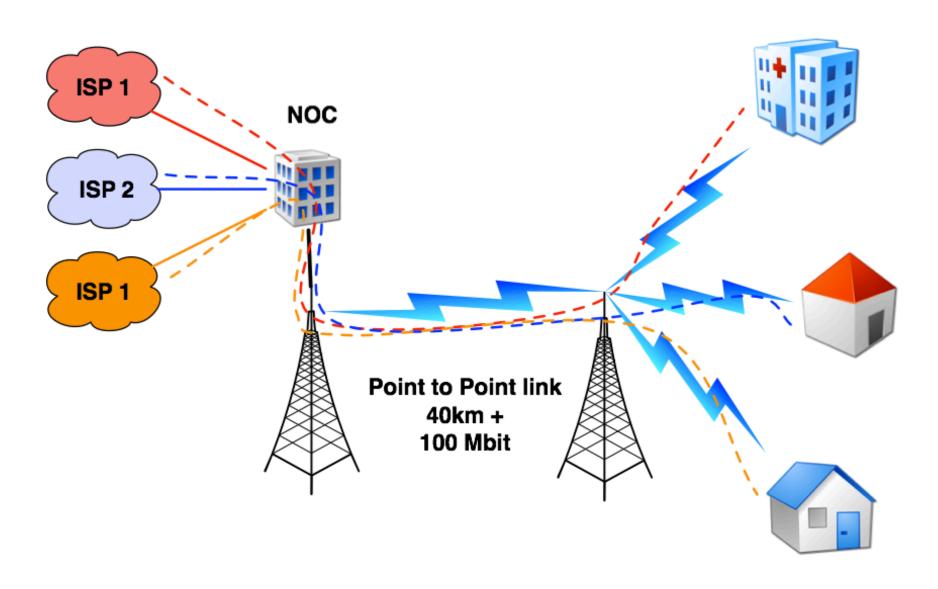


- Training 60 entrepreneurs
- Delivering connectivity to 20 population centers covering 20% of the population
- Connecting 200+ orgs
- Transforming 40 schools into ICT enabled learning centers
- Generating 1M+ revenue into the local ICT economy annually
- Accelerating economic opportunity
- Cost: ~\$2M



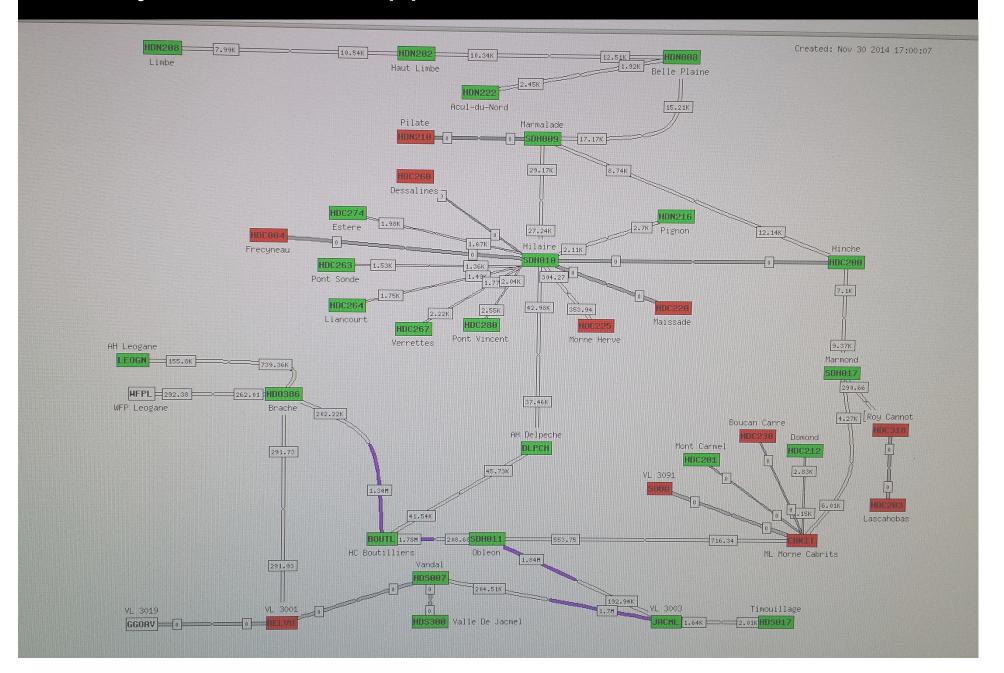
Shared Network





Today's Network Support





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

