connecting those who need it most

ICT Deployments for Disaster Relief
UPC Barcelona - March 2015
Our mission is to get the tools of Information and Communications Technologies (ICTs) -- computing, Internet access, telephony -- to the people and organizations who need them most, in rural and under-served areas in the developing world.
Inveneo at a Glance

- San Francisco based non-profit social enterprise

- Founded in 2004, by Silicon Valley technologists

- Designs and deploys turnkey basic ICT infrastructure solutions for organizations in developing countries

- Building an ICT Entrepreneur partner & capacity-building program to 90 partners in 28 countries

- Delivering systems and projects, with partners, in 25+ countries

Bob Marsh, ICIP Training | Cameroon
Who We Serve

unicef
UNHCR
NetHope
BOSCO Uganda
Maranyundo Initiative
PATH
Conservation
gtz
Sisters of Notre Dame
Millennium Villages
Caritas
ES Global Consulting
Partners In Health
Jesuit Refugee Service
How we work

Design, Deployment and Support Led by Local ICT Entrepreneurs

Needs-Based Solutions for Network Infrastructure

Temporary Relay Station Tacloban, Philippines

Tower Safety Training Sierra Leone
How We Deliver

Training & certification
Real opportunity
Real projects
Increased revenue
More hires

How can I grow?
How can I improve my services to the community?

ICIP

NGO

Deploy, implement and support
Design & plan relevant and sustainable technology

Customized solution

Training & certification
Real opportunity
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How can I grow?
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ICIP

NGO

Deploy, implement and support
Design & plan relevant and sustainable technology

Customized solution
Local Design and Deployment

- Inveneo Certified ICT Partner (ICIP) Program

- Building local ICT capacity of ICT Entrepreneurs

- Enabling access to new, rural markets, new clients and the right equipment

- Accelerating ICT availability in the poorest areas

- In 30+ countries

Kenya ICIPs

E-Veda ICIP

Funding by Inveneo, Cisco
Rural ICT Challenges

• Power

• Heat, dust, humidity

• Lack of affordable Internet connectivity

• Inexperienced users and administrators

• Expensive, inappropriate or inaccessible solutions

• Lack of professional IT support
Solutions Integrate Relevant Technologies

**Hardware**
- Ultra-low-powered computing
- Wireless networks

**Software**
- Microsoft and Linux OS
- SMS Integration
- Network Management

**Power**
- Solar + Batteries
- Grid + Batteries
- Power Protection

**Examples**
- Nepali Post Office
- Network Planning
- Burkina Faso School
Relief Projects

Haiti disaster network

Clients: NetHope, 18 major NGOs including Care, CHF, WVI
Location: Port au Prince
Project: Battery-powered broadband network spanning PaP
Sector: Emergency Relief
Scope: 23 locations
Partners: MultiLink, Access Haiti, HTG, NetHope
Reach: 200,000 people
RadioMobile network map
Port au Prince, Haiti
Jan.2010

Coverage Mapping
Network Topology Planning

Network Diagram
Port au Prince, Haiti
Jan. 2010
Relief Projects

Inveneo Luxury Accommodation
Tacloban, Philippines

Clients: United Methodist Communications, Nethope
Location: Tacloban, Philippines
Project: Typhoon Haiyan Relief communications
Sector: Emergency Relief
Scope: 15 locations
Partner: Local ISPs, UN WFP/ETC
Reach: 50,000 people in region

Typhoon Haiyan

Temporary Office Space
Tacloban, Philippines
Relief Projects

Typhoon Haiyan

Clients: United Methodist Communications, Nethope
Location: Tacloban, Philippines
Project: Typhoon Haiyan Relief communications
Sector: Emergency Relief
Scope: 15 locations
Partner: Local ISPs, UN WFP/ETC
Reach: 50,000 people in region
Relief Projects

Relay Station on Water Tower
Tacloban, Philippines

Typhoon Haiyan

Clients: United Methodist Communications, Nethope
Location: Tacloban, Philippines
Project: Typhoon Haiyan Relief communications
Sector: Emergency Relief
Scope: 15 locations
Partner: Local ISPs, UN WFP/ETC
Reach: 50,000 people in region
Relief Projects

Clients: Facebook, Nethope, Paul Allen Family Foundation
Location: Sierra Leone & Liberia
Project: Ebola Emergency Communications Initiative (ERCI)
Sector: Emergency Relief
Scope: up to 100 locations
Partner: Damsel BC Sierra Leone, Techaide Ghana
Reach: 500,000+ people in region

Ebola Emergency

Planning where and how to deploy
Accra, Ghana Dec.2014
Sites

Ebola Emergency Relief Projects

Clients: Facebook, Nethope, Paul Allen Family Foundation
Location: Sierra Leone & Liberia
Project: Ebola Emergency Communications Initiative (ERCI)
Sector: Emergency Relief
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Reach: 500,000+ people in region
Kits + VSAT Backhaul

Ebola Emergency Relief Projects
Key Elements for Relief Deployments

Preparation:
• Arrange partnerships
• Funders- local staff, govt, ISPs, MNOs
• Plan equipment & kits
• Survey sites, locally &/or remotely
• Plan Logistics
• Document all configurations
• Allow for contingencies
• Keep it Simple!

Field Work:
• Structure work in clusters
• Adapt to conditions
• Work around delays
• Document all changes
• Be consistent & repeatable
• Stay safe!
Useful Links


www.inveneo.org
Moltes gràcies!
Questions please ...