

NGOs Connectivity Challenges and Telehealth in AFRICA



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NGOs Connectivity challenges

- Like other NGOs , SOS Children's villages is working in the field in the majority of African Counties to help in the care giving services for children without biological parental care and their integration in their community
- NGOs use many systems (Apps, DB , Websites ,intranet, Software , ...) to give their services for the beneficiaries





- **Afordabiliy** : The cost is still too high In Africa ,further collaboration by all stakeholders and governments remains essential to lower barriers and facilitate access for all.
- **Lack of enough skilled manpower:**Africa contributes 0.7% to the world's scientist and engineers in spite of having about 13.5% of the world population.
- **Lack of enough competition in the communication industry:** The networking problem in Africa stems from obsolete policies and negative regulatory framework by government telecommunication has been considered as a government property in many Africa countries. Which lead to non defined policies and regulation.



- **Lack of adequate power supply:** stable electricity system is an indispensable infrastructure in the proper functioning of information infrastructure. This make it difficult to access and expensive .
- **The lack of content in local languages:** represents a major issue in Africa . Content and services must be relevant to citizens and meet their needs.

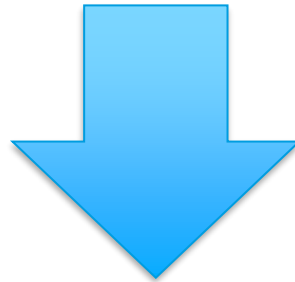


- Through Connecting Africa, SOS and BT are bringing free broadband internet access to 30 SOS Children's Villages in 15 African countries via a global satellite.
- This project has been considered as BT's flagship global Better Future programme and a major instrument providing access to the internet, supporting operations, facilitating staff and community access to training, development, E-learning and providing critical communications.





- This Project was used also as part of emergency response programme to support UN in Sierra Leone and other multiple NGOs like WFP (aid and health workers) tackling the Ebola crisis



- We rapidly deployed point to point infrastructure and extended the reach of our existing VSAT capability at two SOS Villages by providing internet access



- In October 2016, the BT won the "Broadband Changing Lives Award" for "Connecting Africa", considered as the most prestigious recognition of excellence in the Broadband Market Place.





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- The telemedicine project is done in rural area of Benin. project was a fruit of a partnership between SOS Benin, Inmarsat and Safe Patient Triage.
- During one year of testing using the telemedicine kit with SOS Benin in its different health facilities,
- As and when as we advanced in the project, we had problems with the Safe system that had become very slow at boot time. It was even happens that the system starts after 2H power up. And sometimes it happened that the system crashes; which made of the blow the data entry.



Safe Triage Pro

- ❖ Intuitive, easy-to-use application
- ❖ Fast data transmission and Communication
- ❖ Customisable Standard Operating Procedures and drugs database
- ❖ Secure web based information and reporting
- ❖ Scales to support Mass Casualty Incident Management

BGAN Link for eHealth

- ❖ Fixed monthly fee means that you can anticipate and control project costs.
- ❖ Global network availability so you can initiate projects whenever they're needed .
- ❖ Easy to set up and maintain, with no requirement for specialist staff or training
- ❖ Reliable network – 99.9% satellite and ground network availability.
- ❖ Low power consumption – so projects in rural areas with limited power access can still be serviced with connectivity, through a range of battery, mains and solar power options



Safe Triage Pro

- enables clinicians to deliver medical services in remote areas via fast, secure data capture and real-time situational awareness.
- It was developed for use across sectors including: Military, oil and gas (on and offshore), nongovernmental organisations, aviation, ambulance, maritime, disaster response and civil defence.
- It is customisable and scalable, designed to improve clinical governance anywhere, anytime.
- It is capable of real-time vital sign capture and can help aid clinical decision making by providing web based information and reporting





- In rural locations across Africa and the rest of the world, communities sometimes have a gap of weeks, months or even years between visits from healthcare workers.
- Most rural villages lack a permanent healthcare facility, so these sporadic visits from medical staff are often the villagers' only opportunity to receive medical care.
- even when healthcare workers do visit, they may not have access to tools and resources necessary to diagnose or treat every medical condition they encounter.



However, these solutions can only be effective if the location they are used in has access to voice and data connectivity. Cellular and terrestrial services are in short supply in these locations, if they are available at all.





- SOS Children's Villages and Safe Triage Ltd use BGAN Link to bring health monitoring to remote communities in Benin. Linking on-site medical teams to urban hospitals for real-time access to diagnostic expertise, the scheme enabled early identification and treatment prioritisation of potentially life-threatening diseases.
- Inmarsat's global 3G satellite network delivers 99.9% availability over its satellite and ground network, providing voice and broadband connectivity no matter how remote the location, which is why SOS Children's Villages and Safe Triage Ltd chose to use Inmarsat's BGAN Link service for their eHealth trial in Benin, Africa.



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