



Galaxy Backbone PLC

'Connecting Nigeria'

Company Structure

- Galaxy Backbone PLC was incorporated in June 2006
- To be a PPP
- Board consists of stakeholders Federal Ministry of Education has seat on the Board as well as the Fed Mins of Works, Communications, and Health

Current Situation

- ICT in Nigeria has been growing at an exponential rate. The voice density in the country has risen from less than 0.5% to 20% in the last 5 years.
- However Internet and other data related services still are lagging behind as a result of a lack of infrastructure
- Others on a superhighway; we are still searching the shrubbery for the footpath
- Completely dependent on International access for local connectivity and hosting resulting in wastages and duplication

Current Situation contd

- The lack of Infrastructure has stunted the growth of data networks as well telecommunications capacity
- Several independent networks set up by government agencies, companies and ISPs.
- Lack of local hubs and interconnect points mean traffic has to go offshore and return for most IP networks
- As a result of this the networks are inadequate for the purposes for which they were deployed despite the exorbitant cost of ownership.

Aims of the Galaxy Backbone PLC

- High Speed and increased bandwidth
- Broad connectivity
- Flexible Bandwidth Allocation capabilities
- Fail safe and secure operation
- Flexible and adaptable service management control capabilities
- 'Self healing' properties within the network itself

Savings and benefits to the nation

- Set up a structure that will enable local traffic to remain local
- Provide world class facilities to enable the hosting industry to evolve and flourish. This will also internalise traffic
- Elimination of duplication and proliferation of networks owned by the Government
- Security
- Bridging the Digital Divide

Opportunities

- GBB is set to address this shortcoming by integrating existing stand alone government and independent networks into a robust backbone that will enable access to all locations in the country
- GBB aims to address this by introducing the economy of scale into the equation. By aggregating the networks wastages will be eliminated and synergy will be created

Business Concept

- GalaxyBB will become an enabler
- Integrate all Federal Government owned networks
 - Raw Materials Research
 - News Agency of Nigeria
 - etc
- Integrate Jigawa State Broadband Access Network
- Utilise third party fiber networks in the short run
- Use a hybrid of technologies to deploy quickly and then continue upgrading over a 24 month period

Business Concept cont'd

- Set up a Data Center primarily for the Federal Government in Abuja
- Set up a back up Data Center outside Abuja
- Provide co location facilities at the data centers for interested users

Proposed Network Structure

- Core 10Gbps
- Abuja Metro 2.5Gbps
- State Government Headquarters 8Mbps
- Backbone 155Mbps
- 99.999% uptime guaranteed

Components

- IP based Network covering the 36 states
- At least 5,000 Local Government/rural/underserved locations will be covered
- 2 integrated Data Centers which will be mutual backups of each other
- Combination of technologies to ensure speedy deployment

Services

- IP Connectivity
- Internet
- VPN services
- VoIP services
- Video Conference
- IPTV
- Data Center application
- Network management

Goals

- 6 months integrate all major networks and provide basic service to 60% of the ministries based in the FCT
 - temporary data center up and running Q1 2007
- 1 year Abuja fibre

Financial Plan

- Invest \$200million dollars in the short run
- Take over existing Infrastructure worth \$100million

Risks & Rewards

- Risks
 - Negative perception being of initiated and owned by by Government
- Addressing risk
 - PLC form day one,
 - Do things in world class standard
 - SLAs



Thank you