

ATH
KIRIBATI

AMALGAMATED TELECOM

HOLDINGS (KIRIBATI) LIMITED



Background

- ATHKL is Kiribati's leading telecommunication company
- Offering a full range of telecommunication services
- Kiribati's operator of mobile, fixed line and broadband services
- New network infrastructure with fully integrated internet protocol (IP) network
- In 2015, ATHKL upgraded its network to attract a large number of LTE mobile broadband and voice users

Mission Statement

- To provide number 1 network and most reliable telecommunication services for all I-Kiribati

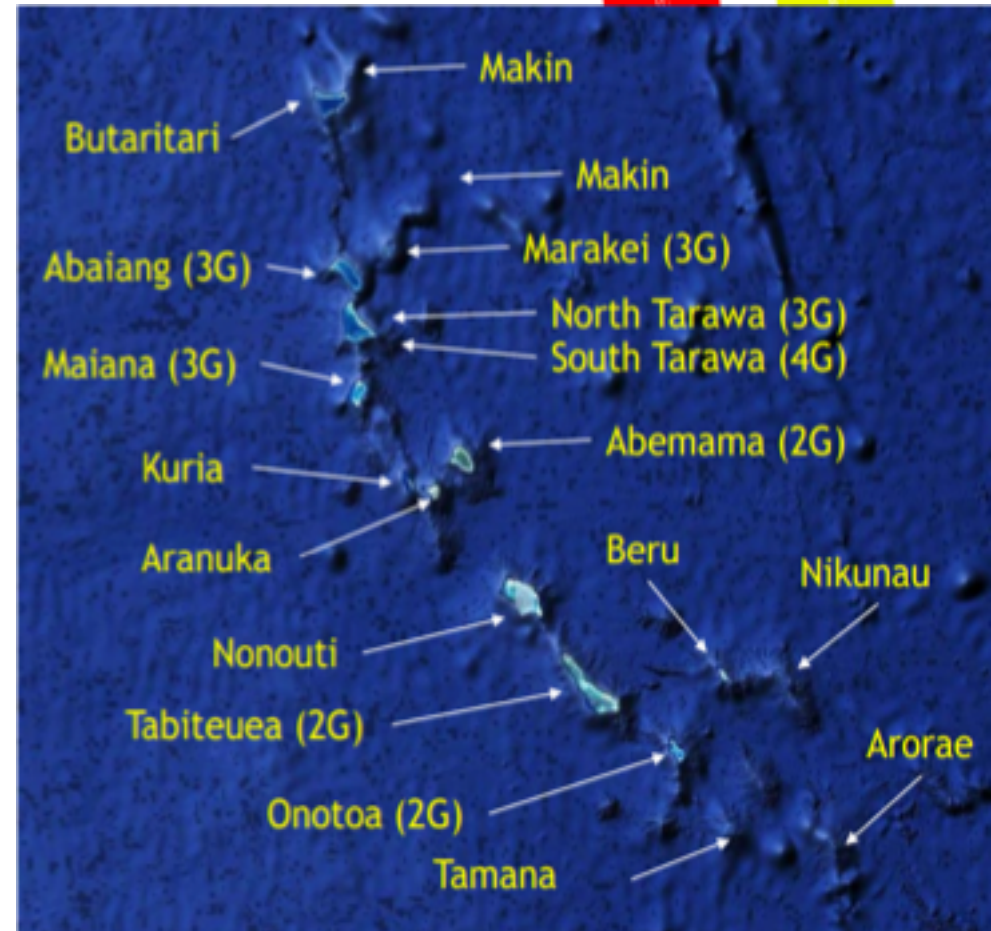
Our Network

➤ Number of Islands connected

- 4G/LTE connection: 1 Island
- 3G connection: 5 Islands
- 2G connection: 3 Islands

➤ Number of sites

- 9 x 4G/LTE sites
- 8 x 3G sites
- 3 x 2G sites



Plans to enhance access, bandwidth and speed of connectivity

- Government of Kiribati mobile and internet services rollout to outer islands (rural), commencing in 2017 and expected to complete by 2019
- Submarine cable projects to main islands centers
 - Tarawa – Mid 2019 (World Bank)
 - Kiritimati – Early 2019 (Asian Development Bank)
- Submarine cable to 3 outer islands project – TBC
- Tarawa terrestrial fiber optics project – end of 2018

Progress to date

- 2G,3G, and 4G deployment in south Tarawa / Christmas Island & 7 Outer Islands
- Roaming services with 40 plus countries
- Migration of ADSL and coconut wireless customers to wireless solution
- New ABS gateway fully operational to cater for broadband demand
- 30 Million investment on network upgrade, ATHKL headquarters, retail shops, internet café & other capital projects such as new vehicles
- Data usage monthly in 2015 was 2.5TB, today it's 28TB

Way forward

- Half Million investment on new ISP setup in Kiritimati by the end of September 2017 to cater for broadband demand
- Facelift to Kiritimati retail shop
- Training for packet core and I.T engineers
- Deployment of Vsat terminals to outer islands for internet connectivity
- Corporate social responsibility – sponsorship and community engagement
- Migration of PABX to Fixed wireless Services (IPABX & Cellular Terminal)

Operation Challenges

□ Satellite challenges

- High maintenance cost
- High deployment cost
- Limited bandwidth available

Problem-solving with IP/ISP network and System Operations

- ❖ Major Faults on Satellite links
 - Out of Band access
- ❖ Project work (WAN over Satellite)
 - Customer Transmission Design (IP routes, management IP, VLANs)
- ❖ WAN Link(Tarawa Customers)
 - Customer Transmission Design (IP routes, management IP, VLANs)

Future development 1

- Inclusivity and economic participation
- Outer island expansion with Government and donor partnership
- Explore submarine with the Government
- Mobile money transfer services to outer islands
- Development of ICT and e-Commerce through Group Synergies – Datec Fiji Ltd, and Vodafone Fiji Ltd

Future development 2

- Cloud-based services: PBX, XaaS, hosted services, Disaster Recovery
- Mobile for Good- mEducation, mHealth, mWomen to enrich the lives of the people of Kiribati.
- Value Added Services including mobile lottery, mobile money, etc

In conclusion

- ATHKL is currently upgrading mobile networks and extending coverage nationwide
- Satellite challenges includes high maintenance cost, high deployment cost and limited available bandwidth
- The problem-solving encompasses:
 - Major Satellite fault
 - WAN Link over Satellite
 - WAN link for Local customers
- ATHKL future plans target to improve the livelihood of I-Kiribati

Thank you !!