

# KT 『Global GiGA Story: Bangladesh GiGA Island』 Initiative

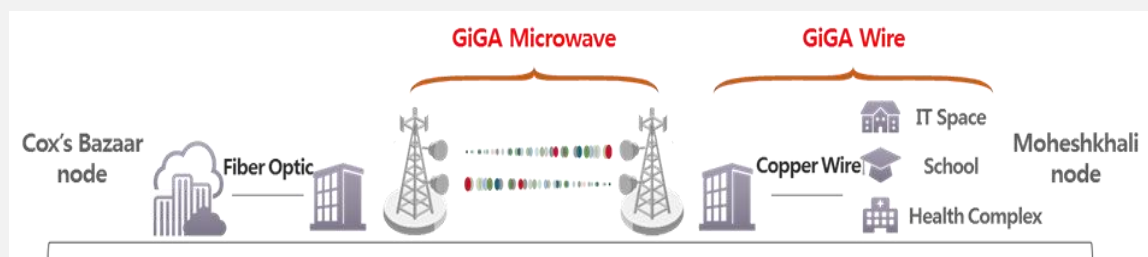
Innovative Global CSV model is replicable and sustainable

- Promoting rural area development in global level with the contribution of KT's core capabilities, wired and wireless network infrastructure and ICT solutions.
- Reducing the social and economic gap between urban and island areas by building the virtual bridge.
- Improving education, healthcare, information and agricultural life based on the collaboration with a developing country government.

In an effort to connect every corner of Bangladesh to the rest of the world, KT has been collaborating with the Government of Bangladesh, International Organization for Migration(IOM), KOICA(Korea International Cooperation Agency) and other NGOs. KT and IOM together with the Government of Bangladesh have been setting up technology and ICT services to implement the success of GiGA Island. The scope of project is not limited only to providing the benefits of technology and high-speed internet, but encompasses building a replicable social development model.

By implementing this 'Global GiGA Island' project, KT planned to roll out high speed network infrastructure including the following supreme quality KT technologies:

## Box 1. Network Diagram

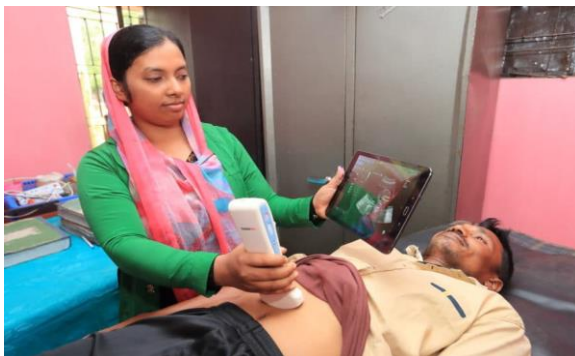


- **GiGA Microwave** : 5x more improved capacity over legacy microwave equipment (up to 1Gbps throughput). A wireless network technology that can provide GiGA-internet service to remote areas such as Islands and mountainous area without the fiber-optic connection
- **GiGA Wire** : 3x more throughput transmission(compared to legacy solutions) technology based on copper wires. (Last mile coverage, up to 100Mbps in GiGA Island)

- Distance Learning
  - Establish smart classes for distance learning in ten primary schools in partnership with 'jaago foundation', a local NGO
  - Utilize e-learning content(Teacher's Portal) for English language and literature



- Digital Healthcare
  - Connect community healthcare clinics through tele-medicine system
  - Utilize mobile health check up devices for diagnosing disease (eg. 'Sonon'(ultrasound device), 'Yodoc'(urine analysis), 'myCheck'(blood tester))



- Access to Information
  - Set up IT education space for IT classes and information run by Ministry of Social Welfare of Bangladesh.
  - Provide monthly cultural show or exchange programs on irregular migration for beneficiaries.



- e-Commerce
  - Set up e-Commerce platform to connect directly with consumer in partnership with KOICA
  - Activate AICC(Agriculture Information and Communication Center)&IPM(Integrated Pest/Crop Management) which are initiatives of 'Digital Bangladesh' through connectivity



There has been some significant and remarkable progress regarding this 'Global GiGA Island' project recently. As of April, 2017, KT finished installation of a fiber-optic cable on Moheshkhali that now provides high speed internet to 30% of the island's population or three of the island's eight unions previously mentioned, which will act as the milestone to implement broadband-based solutions. So far, 25 facilities have been connected to high-speed internet, including 12 primary schools, 4 community clinics, 1 healthcare complex, and an IT center for training. Other buildings include police and municipal office buildings.

In addition to the infrastructure and technology side accomplishment of the project, there have been some remarkable progress in education and healthcare as well.

In education, the project has started teaching English to about 2,000 students across 3 primary schools this month with the help of e-learning services provided by three teachers from the Jaago Foundation in Dhaka. Teachers and students interact with each other in real time via digital equipment that includes cameras, projectors, and a computer in a specially designated classroom. The e-learning program will extend to another 7 primary schools by September end, covering a total of about 7,000 students in the process.

In healthcare, the project is first targeting Maternal Neonatal Child Health needs given the community's chronic female doctor staff shortage. The project has introduced portable handheld ultrasonic devices in four community clinics and the Upazila Healthcare Complex that would allow specialist doctors in big metropolis such as Dhaka and Chittagong to diagnose complicated pregnancies and patients in real-time. This will help in time to reduce the maternal mortality rate of 18 deaths per

10,000 people every year, above the national average of 17 deaths per 10,000 people, by alerting doctors to potential complications beforehand.

The project now aims to promote e-commerce by helping farmers connect directly with consumers. And direct sales to retail customers via an e-commerce portal is expected to raise local farmers' profit significantly. Utilizing the broadband infrastructure installed by KT, various training classes provided by the Bangladesh government and its partners will be soon available to the local people in need.

Through these initiatives and many more, the project aims to ultimately reduce the social and economic gap between urban and island areas, and prevent forced migration to the cities and abroad as well as improving overall quality of lives of the targeted population.

KT and IOM will hand over the entire project to Government of Bangladesh in 2019 based on TAPP (Technical Assistance Project Proposal) signed by ERD (Economic Relations Division) of Bangladesh.