



1	Limitations & Challenges
2	Public Private Partnership Model
3	GiGA Island Projects (CSR)
4	E-Commerce project



Limitation & Challenges for Rural areas

What are the issues?

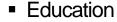
Specific limitation/challenges to connect rural and remote areas

- Geographic access (distance, terrain, poor roads, mine, etc.)
- Shortage of Power supply (electricity)
- Low geographic density of target population
- Low potential ARPU, High installation cost, High operation & maintenance cost
- Lack of technical personnel/ICT literacy
- Lack of investment/funding (public and private)

	Urban	Rural	Discrepancy
Revenue per square mile	US\$248,000	US\$262	X1,000
Capex per subscriber	S	\$ \$ \$ \$ OSP	x4

Digital Divide





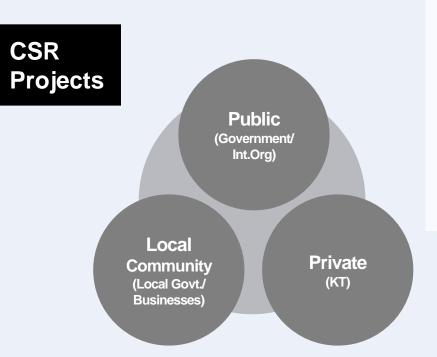
- Health
- Gender
- Migration...



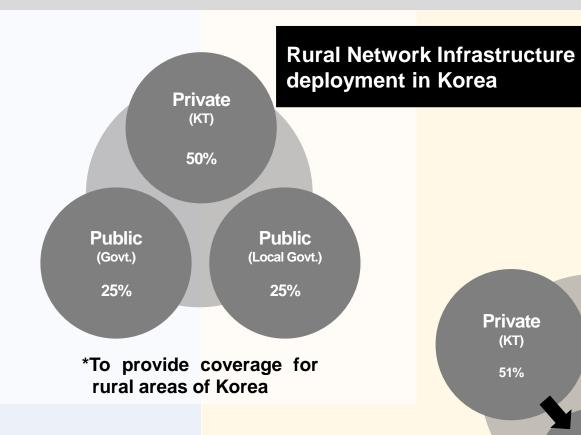
Source: IEEE ComSoc Technology News, KT consultation cases in Africa (2015), ITU (2017)

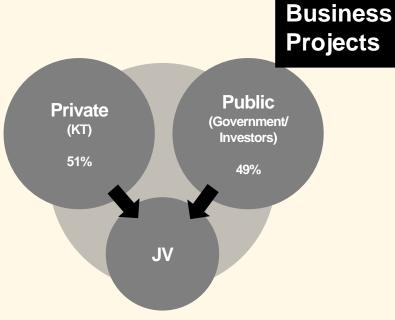
Public Private Partnership Model

to maximize efficiency & effectiveness of projects









*Population coverage of 95% in Rwanda including rural areas



GiGA Island project to Bridge Gaps

Our Corporate Social Responsibility (CSR) Projects

GiGA Island projects (2014 -)

: Connecting remote and isolated areas





GiGA Island projects to Bridge Gaps

Our Corporate Social Responsibility (CSR) Projects

Connecting the unconnected 1% of Korea

: To connect geographically and socially isolated areas of Korea



GiGA Island (Baekryeong island)

March 2015

Safety: Disaster resistant network, Ship monitoring, Smart farm solutions, etc.



GiGA Island (Gyodong Island)

March 2017

Tourism: Tourism promotion platform/apps, IOT, etc.



GiGA Island (Imja Island)

October 2014

Agriculture/culture: Smart farm, ICT school, etc.



November 2014 **Education**: ICT education system and solutions, etc.



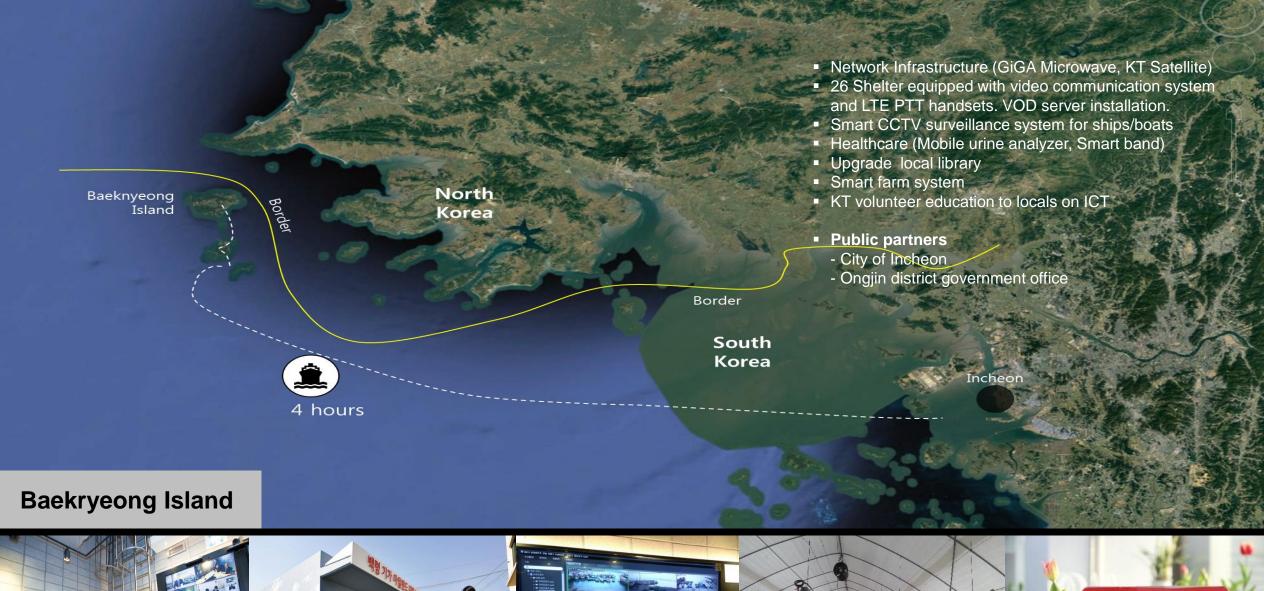
GiGA Village (Pyoungchang)

December 2017 **Agriculture/Culture**: Animal detection system energy solutions, etc.



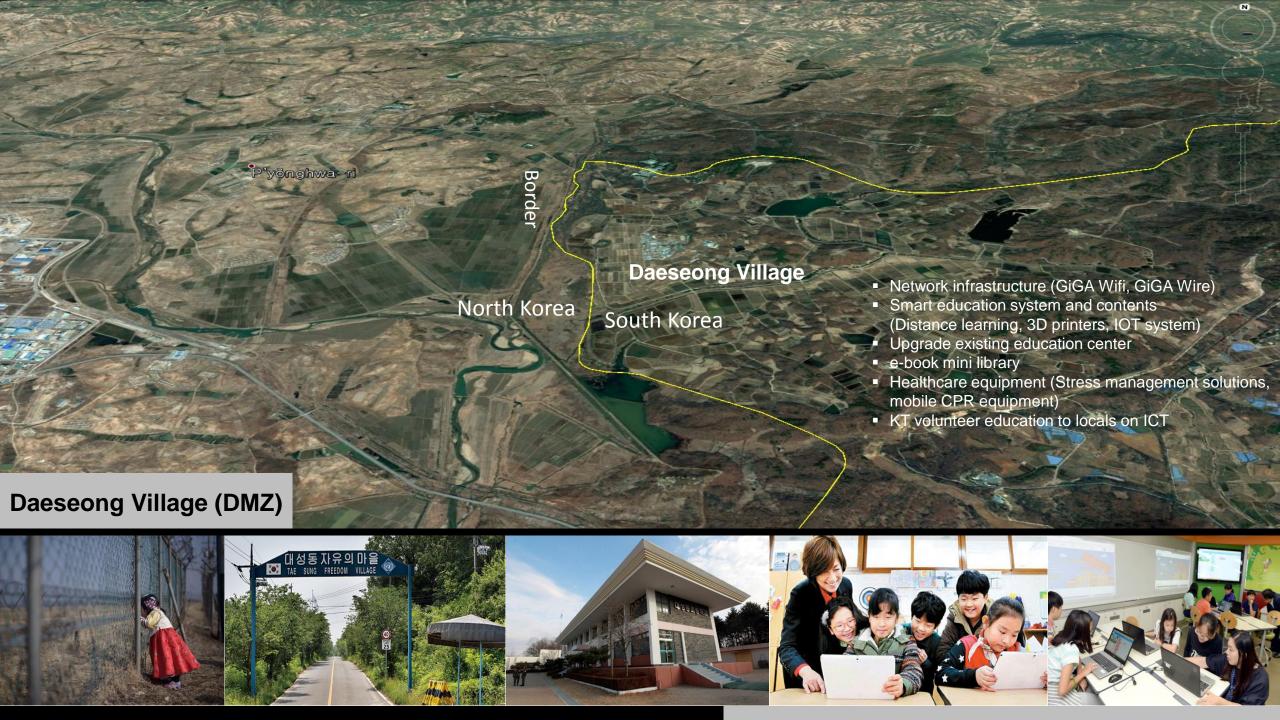
GIGA Vaillage (Cheonghakdong)

July 2015 Distance learning, drone for safety, etc.



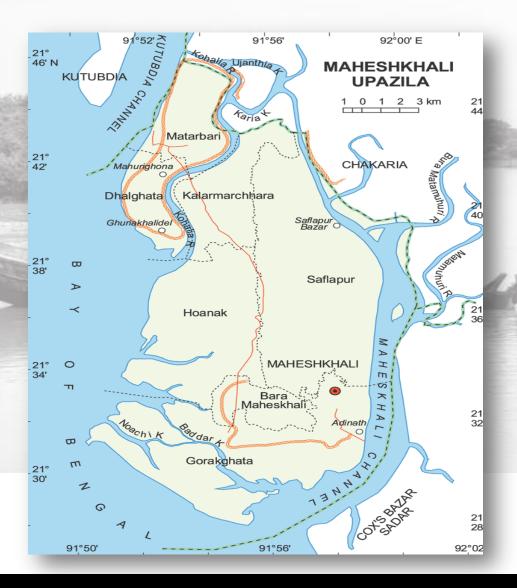




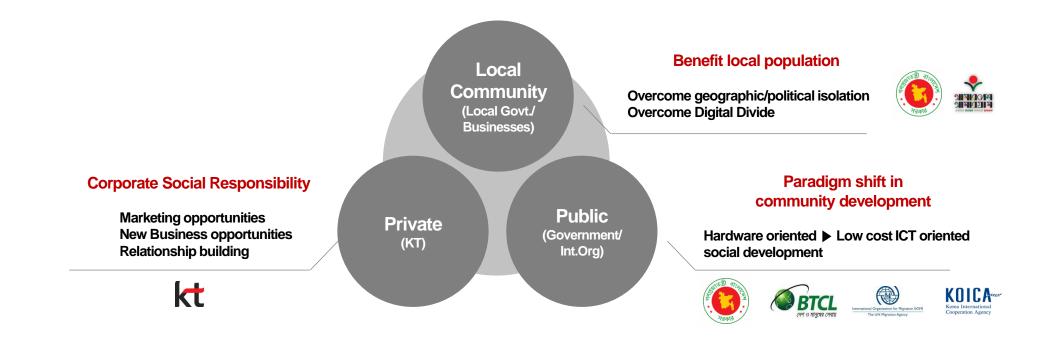




Moheshkhali, The most isolated island in Bangladesh



- Located South Eastern part of Bangladesh within Cox's Bazar region. Residents: 300,000
- ➤ 400km away from Dhaka Social/Economically isolated area. Minimum supply of electricity, water, education, health facilities and services
- ▶ 40% of residents under poverty level 62% of residents involved in agriculture sector
- Increasing number of Illegal migration to nearby countries such as Malaysia



Network infrastructure Installation

: GiGA Microwave: connecting the island with mainland (Maximum 500mbps)

GiGA Wire: G.hn technology that Uses existing copperline network on the island (Maximum 100mbps)

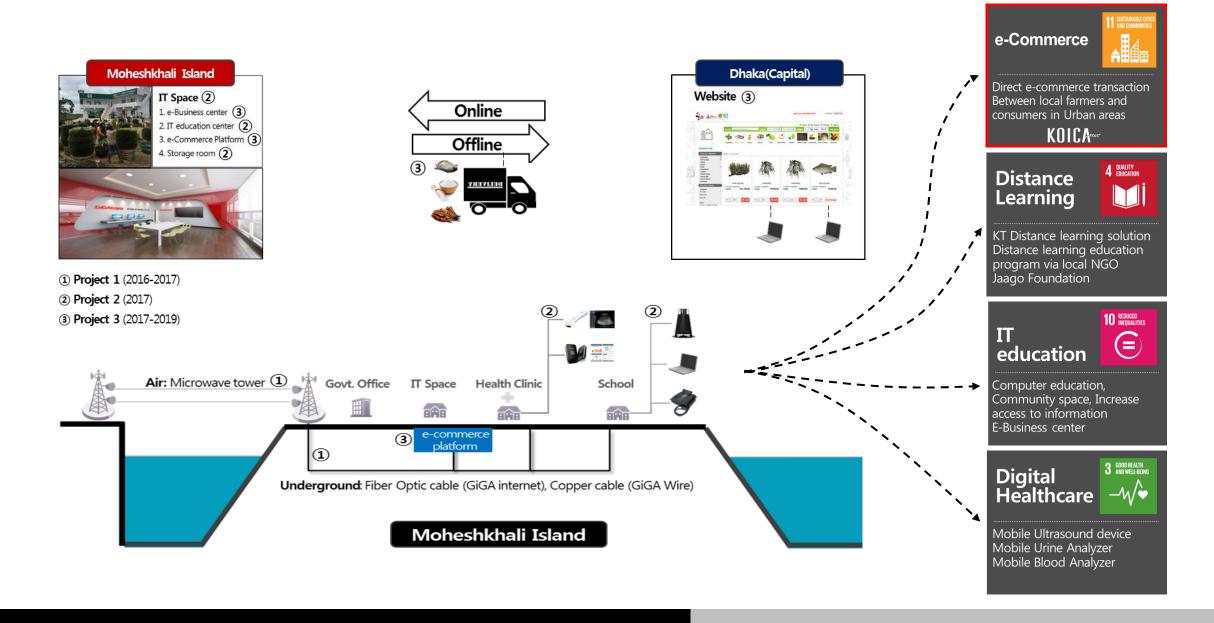








Overview to the project





e-commerce project

High commission paid to middleman

: Low income to Moheshkhali island farmers

I Agriculture

- Limited access to market information
- Agricultural product difficult to distribute: low income

2 Health

- Limited number of doctors. (High doctor turnover rate)
- Low sanitation & hygiene awareness

Information

- Locals have Low exposure to IT
- Limited internet leads to limited access to information

Education

- Limited number of education subjects
- Limited number of trained teachers

Price

- High price uncertainty of local agricultural produce
- Limited access to market price information

Place

Distribution channel is monopolized by distributers
who take advantage of geographical remoteness

→ Promotion

- No advertisement/marketing of local products
- Overall lack of business knowhow/capabilities

Product

- Lack of Pest/Disease control
- Lack of knowledge on quality control of agricultural products











e-commerce project

Overcoming the Middleman through e-Commerce

: Direct distribution gateway to local farmers (no commission)



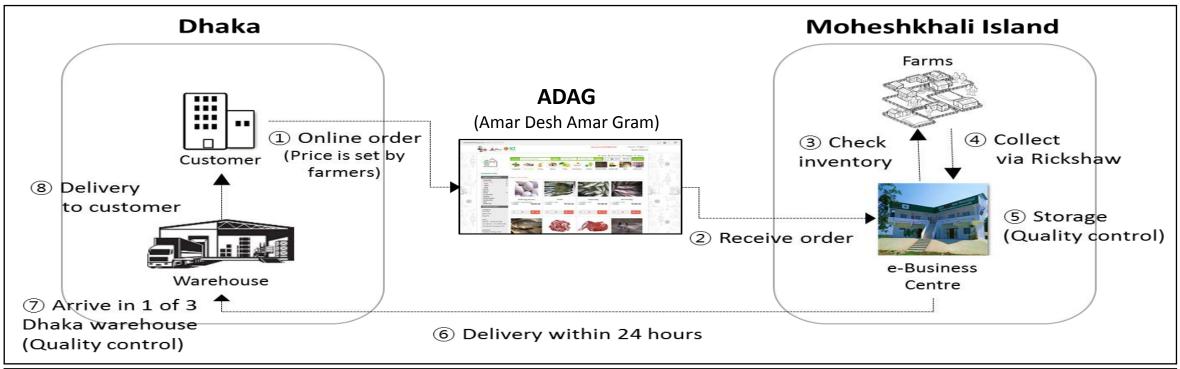
High dependency on middleman for sales of product



Online access to market information to help overcome the lack of access to agriculture information due to geographical remoteness



e-commerce project: overall distribution channel













[e-Business Centre in Moheshkhali Island]

[e-commerce website]



Thank you

