Value beyond Connectivity

June 10, 2016

Byungki OH
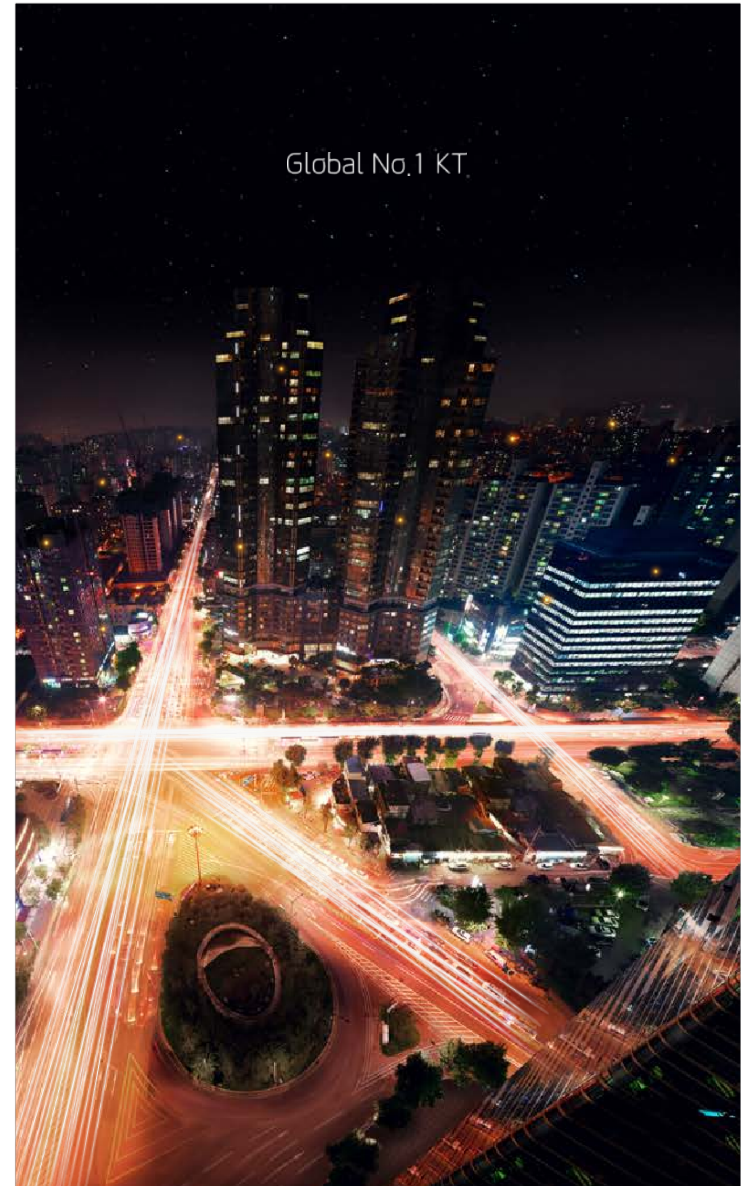
Global No.1 KT

Korea Telecom, KT

The fully integrated ICT service provider,
with **fixed-wireless-broadband network in Korea**

No.1 — **Broadband Internet service provider**
with 49.3% market share (8.3M Lines)

No.2 — **Mobile service provider**
with 30.4% market share (18.2M
subscribers including 13.2M LTE)

No.1 — **IPTV service provider**
with 52.7% market share (6.7M
Subscribers). Additional Satellite TV Subs.(2.1M)

No.1 — Submarine cables in operation **that covers the globe 8.7 times (connecting 63 countries)**

ICT: Information and Communications Technology, IPTV: Internet Protocol TV

kt
Korea Telecom

5 Driving Forces behind Korea's Broadband Success

Government

- *Policy measures to bridge digital divide*
- *e-Government drive*

Operators

- *Network Investment*
- *Service Provisioning*
  - *Internet cafes*

People

- *Rapid service adopters*
- *Big demand for Education*

Contents

- *Portals and Contents developments in abundance*
- *Venture Boom*

Manufacturers

- *Affordable PCs & devices*
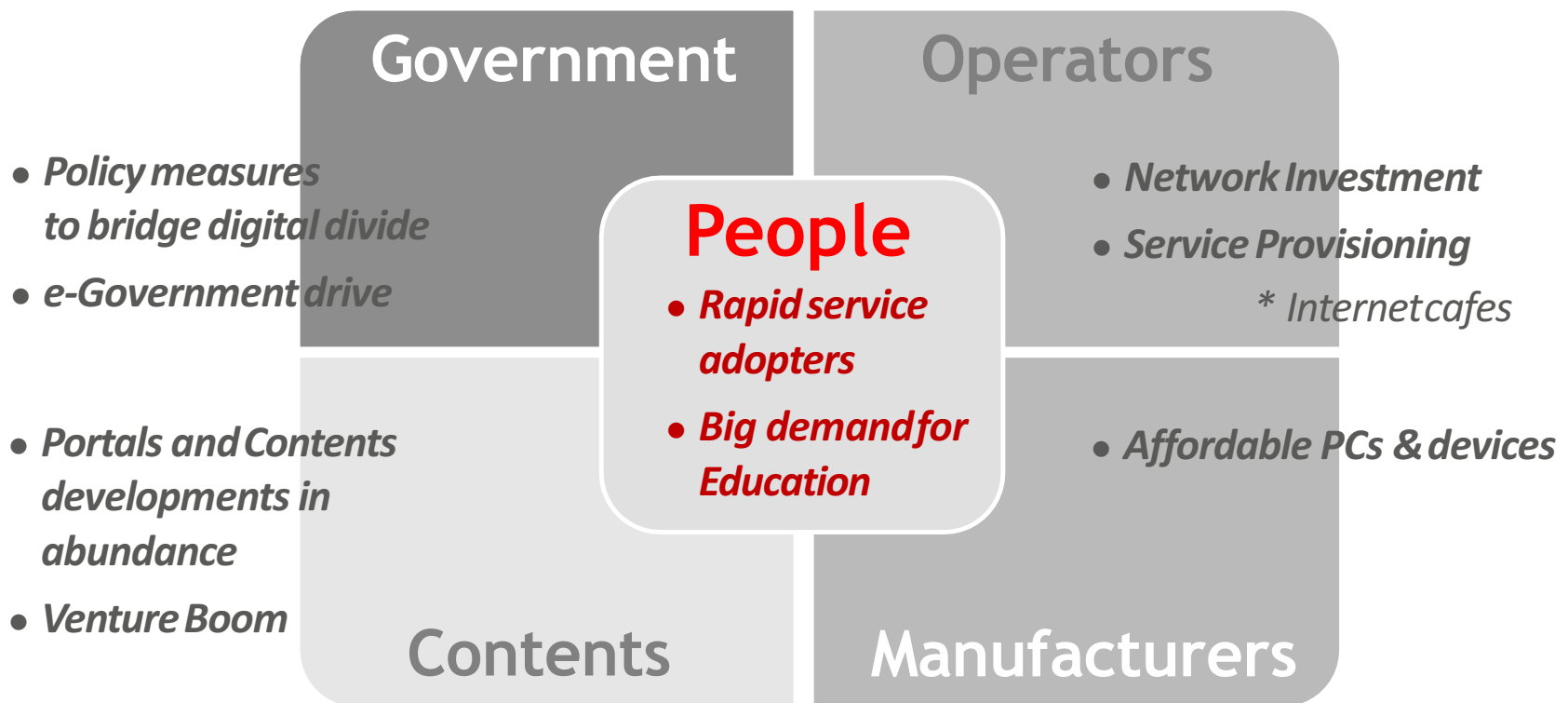
Korea's National Broadband Drive

National Broadband Projects		
2001	**2005**	**2010** **2015**
High-speed Internet Network ('95-'05)	**Broadband convergence Network** (BcN, '04-'10)	**Ultra Broadband convergence Network** (UBcN, '09-'17)
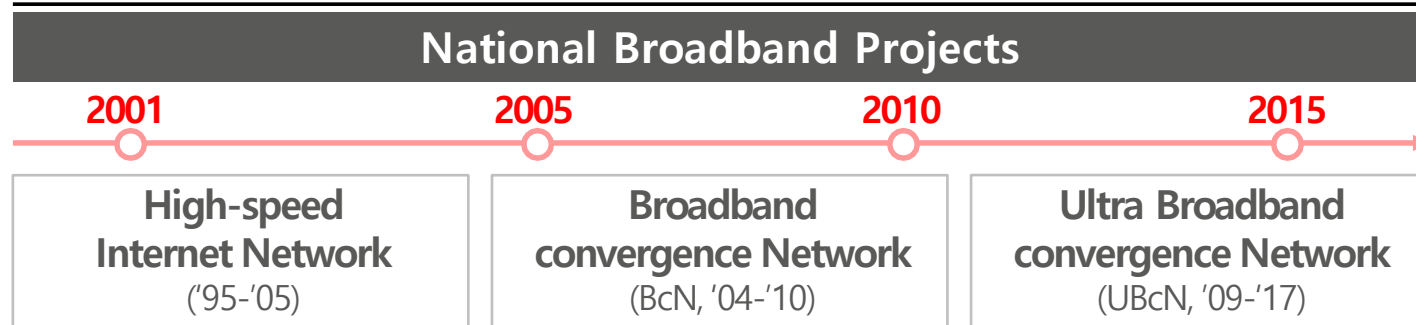
Plans for Bridging Digital Divide			
	Comprehensive Plan for Reducing Digital Divide		**National Informatization Plan**
	1st	**2nd**	
Period	2001-2005	2006-2010	2008-2017
Goal	*Information-utilizing environment & Increase in penetration rates of comm. devices*	*Increase in comparative informatization level of the socially disadvantaged*	*Non-discriminatory information welfare society*
Laws	*Act on Bridging Digital Divide*		*Framework Act on National Informatization*

KT's Broadband Service Evolution

~8Mbps ADSL (In 1999)

13~50Mbps ADSL (From 2002 to 2004)

100Mbps FTTH/FTTB (In 2006)

1Gbps Gigabit Internet (In 2012)
- Via Fiber Based Broadband

1Gbps Gigabit Internet with GiGA Wire* (In 2014)
- Via existing Copper cable
1Gbps Gigabit Internet with WiFi Bridge **(in 2015)
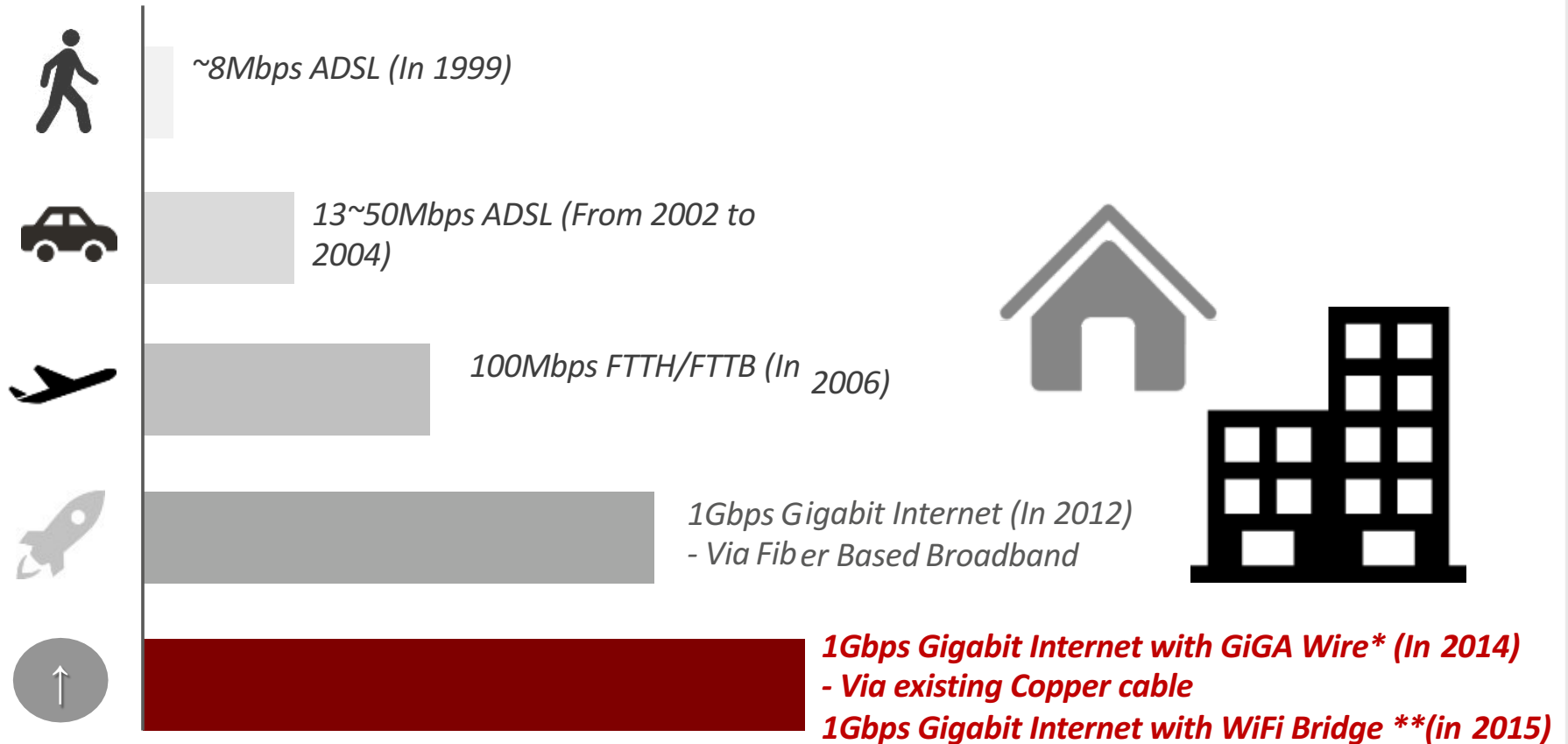
* Gigawire: An in-building solution for fixed network to provide maximum 500Mbps speed with the existing copper/UTP cables
** GigaWIFI Bridge : A high-speed wireless transmission solution to transfer data to distant places up to 10Km where cable is not available

"Broadband Empowerment" Project, GiGA Island

Purpose

kt GiGA Island

Develop Isolated Areas and Bridge Social Divide

ICT Convergence Solutions

Education	Culture	Economy	Healthcare	Energy

GiGA Network

GiGA Internet	GiGA WiFi	GiGA Wire

"Empower" residents of remote and isolated regions with opportunities by enabling them with Giga-speed network and ICT convergence services

4 Projects in Korea

GiGA Island 2 (Mar. 2015)
Baengnyeong Island

Theme : Public Safety

Improved public protection and rapid disaster recovery

GiGA School (Nov. 2014)
Daesungdong school in DMZ

Theme : Smart Education

Better education for school in demilitarized zone

GiGA Island 1 (Oct. 2014)
Imja Island

Theme : Cluster Development

Life-enhancing social cluster development
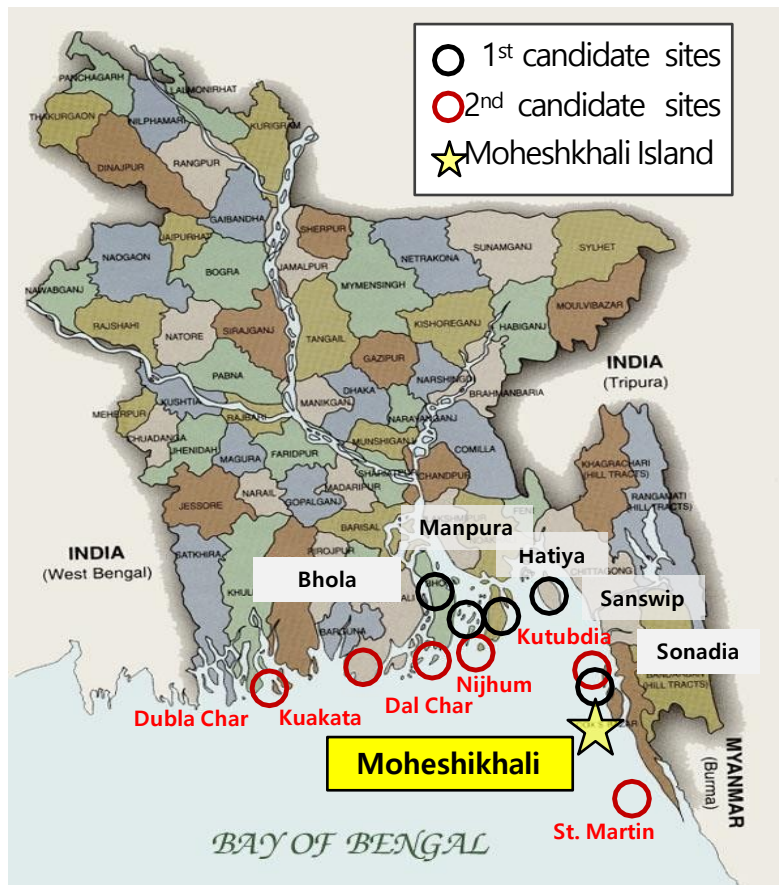
GiGA Village (Jul. 2015)
Cheonghakdong Village

Theme : Traditional Culture

Spreading of traditional culture by GiGAtopia
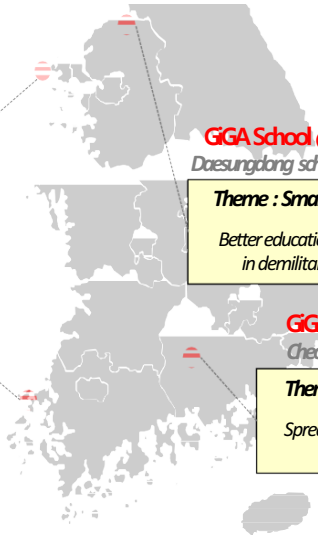
GiGA Island in Bangladesh

Digital Island

Map legend:
- ○ 1st candidate sites
- ○ 2nd candidate sites
- ☆ Moheshkhali Island

Labels on map: Manpura, Bhola, Hatiya, Sanswip, Kutubdia, Sonadia, Nijhum, Dal Char, Kuakata, Dubla Char, **Moheshikhali**, St. Martin, BAY OF BENGAL

KT 『GiGA Island』

Improving life-quality in isolated regions by enabling to **use GiGA speed network and ICT convergence services**
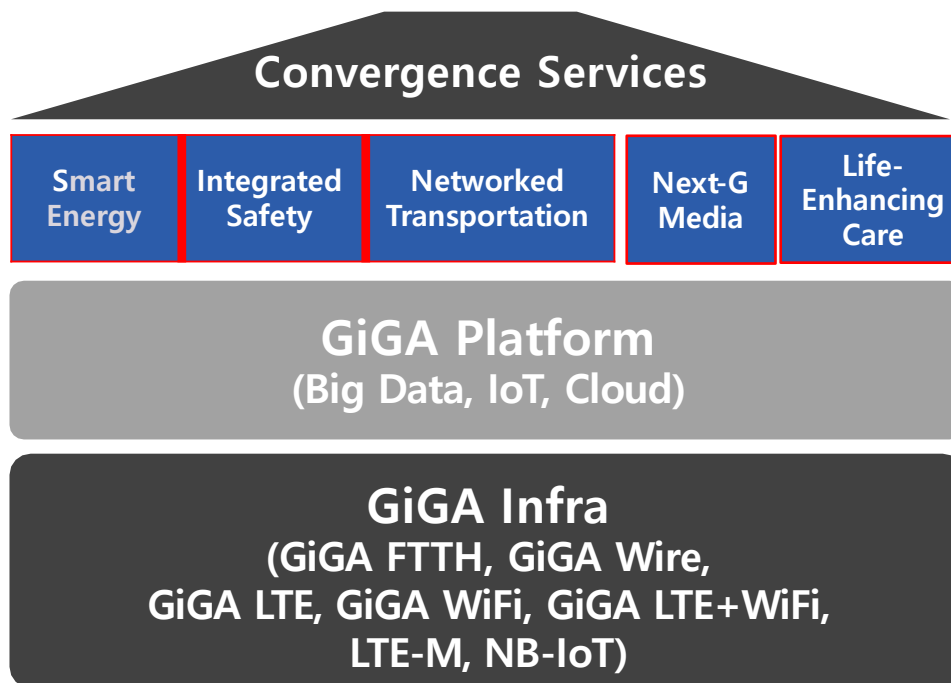
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Bangladesh 『Digital Bangladesh』

A national strategic vision to become **poverty-free, healthy citizens, and skilled human resources by ICT**

KT's GiGAtopia Vision

✓ **Broadband empowerment through innovative GiGA Infrasturcture**
✓ **Provision of ICT and various convergence services**

GiGAtopia ●————— People & things connected through GiGA infra

Convergence Services

| Smart Energy | Integrated Safety | Networked Transportation | Next-G Media | Life-Enhancing Care |

GiGA Platform
(Big Data, IoT, Cloud)

GiGA Infra
(GiGA FTTH, GiGA Wire,
GiGA LTE, GiGA WiFi, GiGA LTE+WiFi,
LTE-M, NB-IoT)

Thank you | **kt**