



IT & Telecom

Strategic Business Development :  
New Opportunities in Testing Market

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S. Korea is the best place for testing commercial potentials of newly developed innovative technologies in IT and Telecom.

Once a new technology is successful in S. Korea's testing market, it could become a global dominant design such as in the case of Qualcomm's CDMA technology.

Korea Communications Commission" (KCC: <http://eng.kcc.go.kr/user/ehpMain.do>) announced a press release that the first priority for S. Korea's national strategy in the global wireless telecommunication innovation competitions is to develop integrated standardization of 4G mobile technology such as Mobile WiMAX-Evolution, LTE-Advanced, and IMT-Advanced. KCC also set up a strategic support plan for Beyond IMT-Advanced essential technology development and IPR for the standard technology.

KCC's 4G & Beyond 4G Mobile Innovation plan is a part of S. Korea's strategic policy for next generation wireless telecommunication innovation, in which 1.5 billion US dollars will be invested until 2013.

As a part of the KCC's strategic efforts, an online site (<http://www.spectrum.or.kr/>) for supporting the implementation of flexible spectrum policy will be launched.

S. Korea's "Green Growth Committee" (<http://www.greengrowth.go.kr/>) said that the first priority for S. Korea's national strategy in the global green IT innovation competitions is to develop green IT technologies targeting the international standards from the start.

According to the green growth committee's strategic planning, the S. Korean government will invest 2 billion US dollars annually until 2012 for green technology research and development (R&D).

As a part of the green growth committee's strategic efforts, a task force for the public-private collaborations will be launched for the development of international green IT standards and their IPR (essential patents).

## Essential Patent Supporting Center



Korea Intellectual Property Office (KIPO) established the "Essential Patent Supporting Center" as a part of an official organization for Korea Institute of Patent Information (KIPI). The main role of the center is to support Korean industry for developing IPRs for standardized technologies, especially in IT and Telecommunications.

KIPO announced that the "Essential Patent Supporting Center" will be operated as a public-private collaboration and will provide essential patent information and expert consulting for promotion of Korean industries' global leadership in IPRs for standardized technologies.

S. Korea's major telecom service providers – SKT and KT – selected M2M as a new strategic business option for the next generation profit center:

SK Telecom formed a new business division, 'IPE (Industry Productivity Enhancement)' center, for the development of new M2M innovative technologies and providing M2M based B2B services. SKT aims \$20 B market creation based on M2M services for conventional industry's productivity enhancement.

S. Korea's largest Telco, KT, also plan to provide M2M based B2B services using 3G mobile and Mobile WiMAX networks. The KT's M2M services are also targeting several newly developing green businesses such as smart grids and environment monitoring services.

In parallel with the private sector's efforts, Korean government (KCC) are going to launch several trial projects by providing M2M test-bed platform for public-private collaborations. KCC also plan to assign a unique IP address for each individual M2M devices to form a 'network of things'.

According to the KCC (Korea Communications Commission), there will be a new mobile WiMAX (Korean brand name WIBRO) service provider in addition to the current operators, KT and SK Telecom. The new mobile WiMAX operator will be about 1B US\$ initial capital MNO consortium consisting of MVNO shareholders. KCC is planning a new frequency allocation (2.3 GHz or 2.5 GHz with 10 MHz bandwidth) in early 2010 for the start of nation-wide full commercial services in 2011.

The new All-IP based mobile WiMAX network is expected to provide the voice (mVoIP) as well as the broadband data services in a truly fixed-mobile and voice-data convergence environment for each MVNO's customized services such as m-learning, m-logistics, and m-healthcare etc.

## Songdo u-City: Global IT Innovation Hub



Songdo u-City is a new city in Incheon, S. Korea for creating innovative living environment for international business (NY Times: Korea's High-Tech Utopia, Where Everything Is Observed:

[http://www.nytimes.com/2005/10/05/technology/techspecial/05oconnell.html?\\_r=2&ei=5070&en=f49e6ccfdeea3832&ex=1137128400&adxnnl=1&adxnnlx=1136955721-1KkHc2eYEqMOALzXR5JEfw](http://www.nytimes.com/2005/10/05/technology/techspecial/05oconnell.html?_r=2&ei=5070&en=f49e6ccfdeea3832&ex=1137128400&adxnnl=1&adxnnlx=1136955721-1KkHc2eYEqMOALzXR5JEfw))

Recently the Songdo u-City got a media attention due to its hosting of new global IT innovation centers:

Cisco is going to invest \$2 billion dollars over the next five years starting from 2010 for the development of 'Smart Connected Communities solutions' for the u-City.

GE plans to establish a global IT-health R & D center in Songdo u-City. GE will invest \$42 million for the next five years for the development of state-of-the-art healthcare IT solutions.



Korea's main institutes for ICT (Information & Communication Technology) R&D and policy - Electronics & Telecommunications Research Institute (ETRI), Korea Internet & Security Agency (KISA), and National Information Society Agency (NIA) recently opened the 'future network 2020 forum (FN 2020)' for the promotion of S. Korea's global leadership in future ICT innovations.

The FN 2020 forum will provide visionary strategy and supporting government policy for the development of innovative network infrastructure and related service models for the future information society: 4G and beyond 4G mobile network technologies, standardization in fixed-mobile convergence networks, policy and technologies for secure network environment, open network architecture for network neutrality implementation, and testing platform for the new service models development in emerging ICT markets.

# Thank you!



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