Home Network and Its Related Service

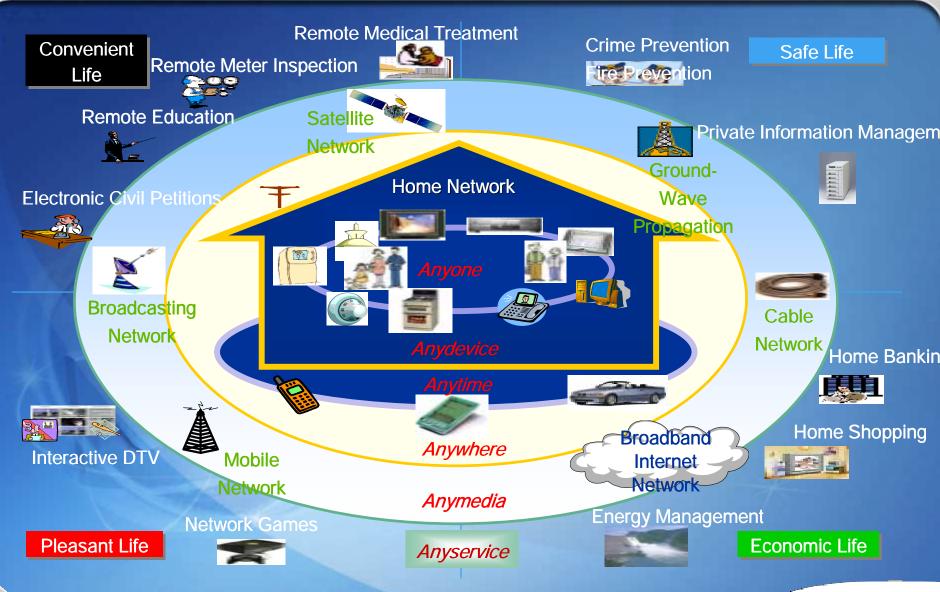
2005.2.21 Lee, Yeong-Ro Email: lyr@nca.or.kr



Home Network Overview



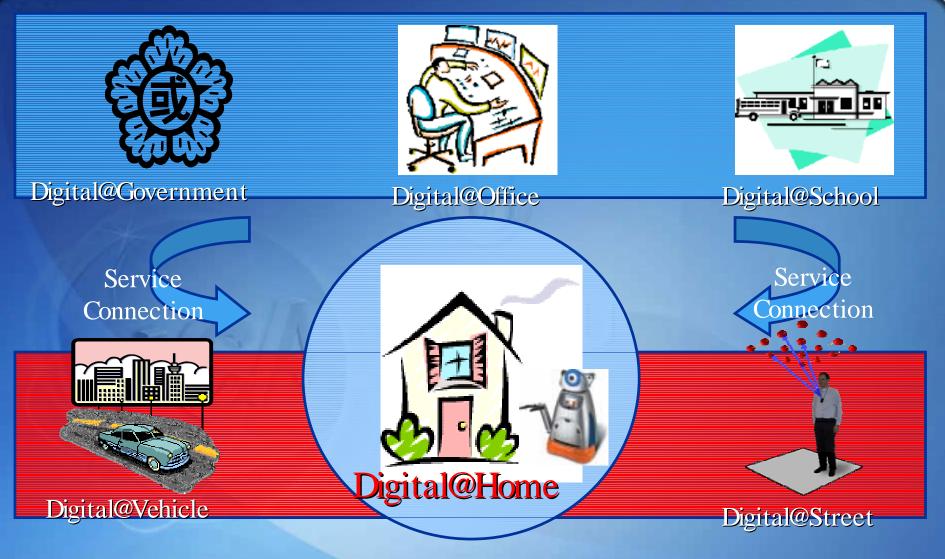
Concept of Digital Home







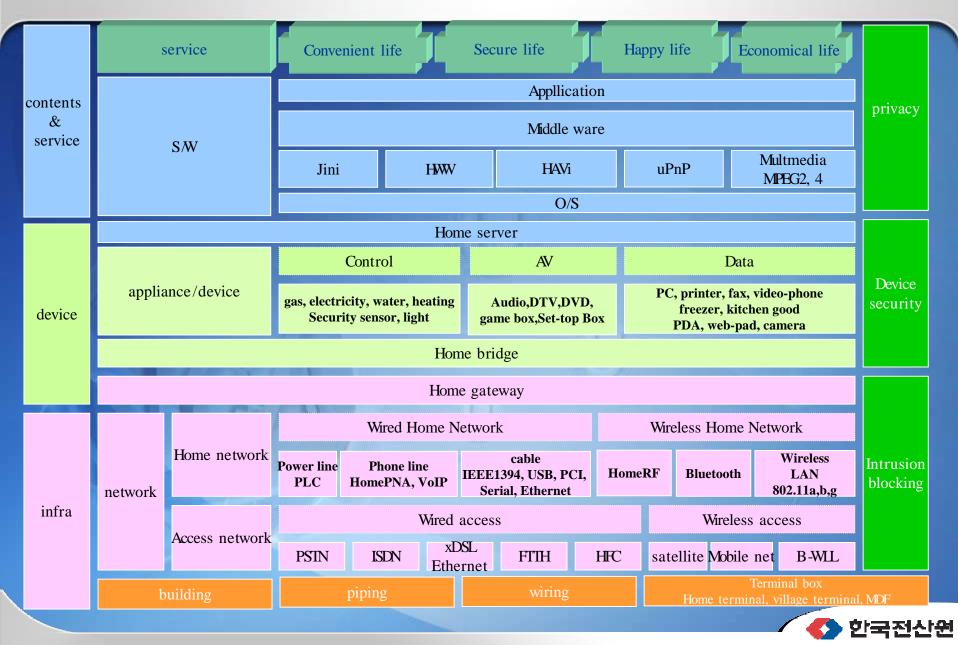
Digital Home Realization



Digital Home is content provider & consumer



Home Network Component



Major Services on Home Network

Service	Summary	Service Type
Home Automation	Automatic and remote management of various convenient facilities at home	 Home appliances control/ lighting devices control Digital meter inspection/ energy management Automated entrance/exit control
A/V Service	Digital audio/video broadcasting and various extra services	 Digital satellite broadcasting VOD/AOD/GOD services
Data Service	Information providing services such as news, weather, fortune telling, etc., and transaction processing services such as T- Commerce, etc.	 SMS/MMS Messenger News/Weather/Fortune Telling/ T- commerce
Application Service	Remote medical consulting with a doctor and health examination/ Health management services	 Remote medical consulting Health examination/ Health management

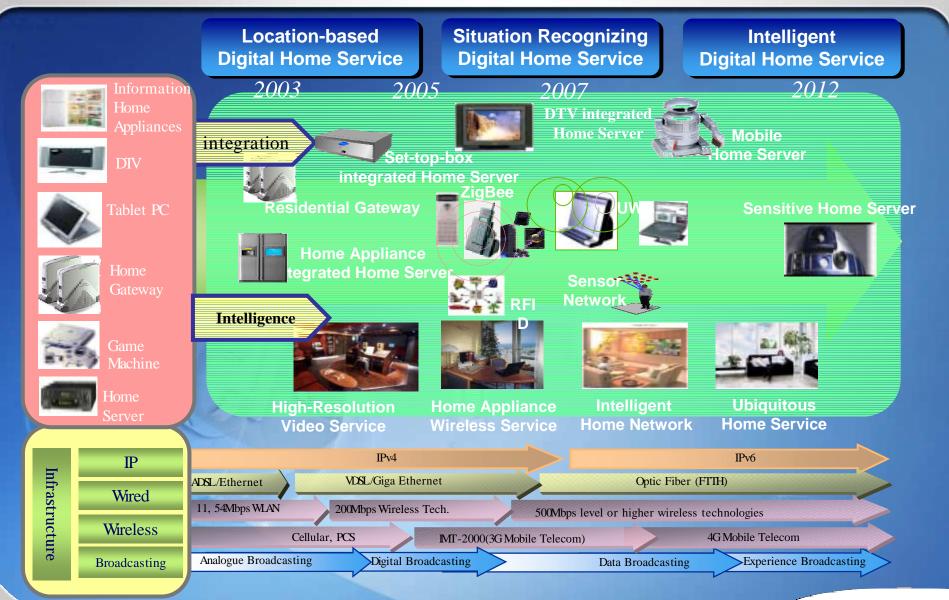
🕥 한국전산원

Major Services on Home Network

Service	Summary	Service Type
Internet Service	Online and TV services on the Internet by using broadband Internet network	 Broadband Internet services Internet TV
Home Security System	Safety services through various sensors (UV detectors, front door magnetic detectors, gas detectors)	 Front door detection/ Fire detection Gas/ short-circuit detection Emergency notice/surrounding areas detection
Public Service	Public services through connection between the national information network and the administration network	 Internet administrative services T-Government Roads/transportation/location information services



Home Network Direction

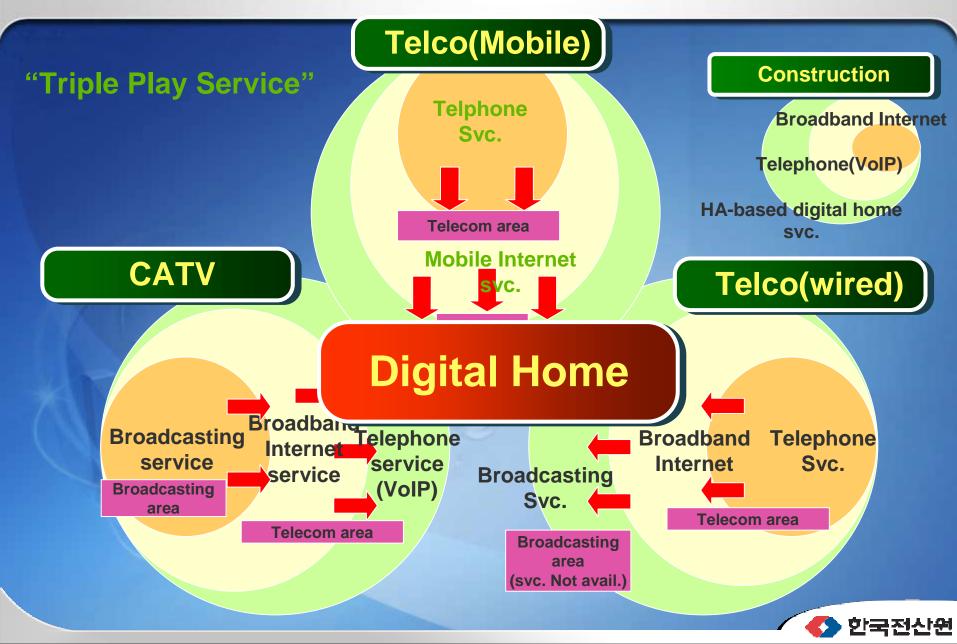




Home Network Trial Projects



Industry Dynamics



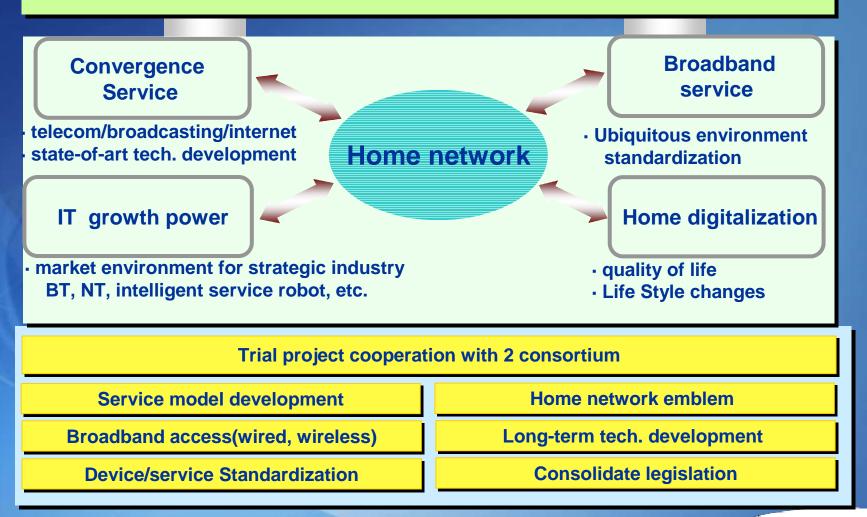
Why Home Network is Important

- Home is the source of New Info-comm services
 - Mobile, Home, Office(Work)
 - Many info-comm devices at the Home
 - New service chances from Home
- Home Network (Digital Home) has 'Integrated' feature itself, once introduced then huge impacts on industries
 - Construction, Home Appliances, Energy, Telecom, Broadcasting(Cable), Security, etc
- Broadband Home Access is one of the BcN's Goal
 - Quality Guaranteed Service can change people's life style in the Future



Vision

10M households Home Network diffusion





Goal & How

Goal

- Service model development, market promotion
- Verify Compatibility and interoperation among various types of devices, venders, services
- Make people realize "home network" is easy to use and useful as commodities

How

- Each consortium consists of various industry players
- participation of major players from a variety of industries such as construction, home appliance, telecom, broadcasting companies
- Matching fund b/w Gov. : private consortium (1 : 2+)
- Results of trial projects transferred to Standardization activities



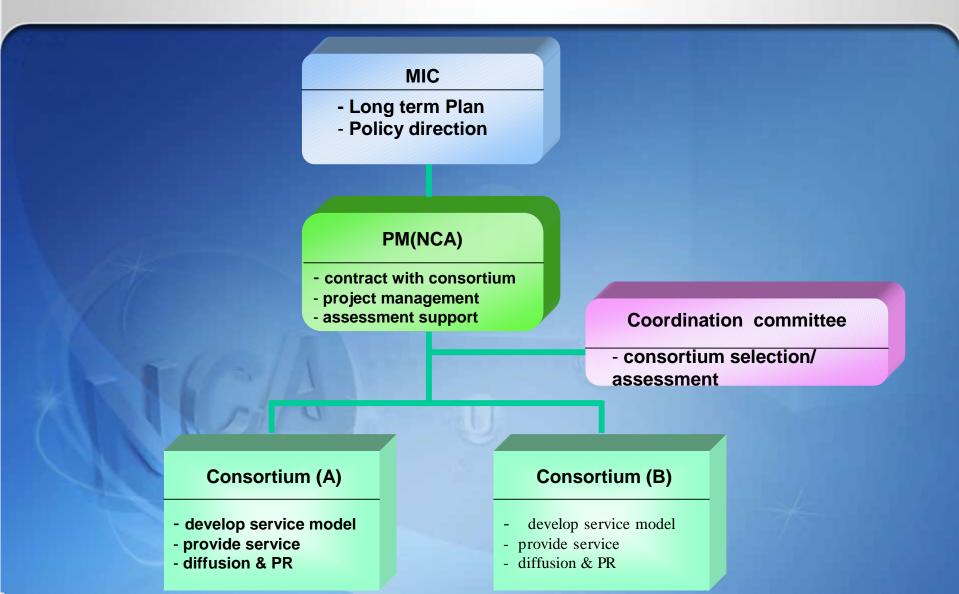
Plan by Stage

• 1st stage : 2003. 7 ~ 2004. 12

- Service model development (home network enabler)
 - . Based on existing IT infra, apply existing tech.
 - . Web service on Various non-PC devices
- find compatibility issues & how-to-solve
- 2nd stage : 2005. 1 ~ 2007. 12
 - Enhanced Service model development
 Based on BcN, Ubiquitous <u>& IPv6</u>
 - . User friendly services with Intelligence, voice•video recognition
 - apply & verify compatibility solution from 1st stage



Roles

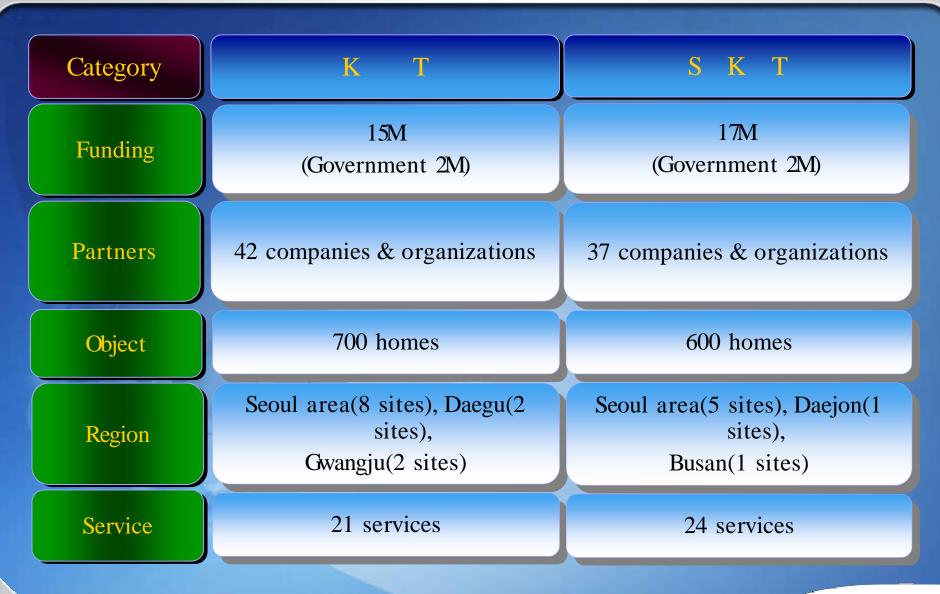




1st Stage Trial Project

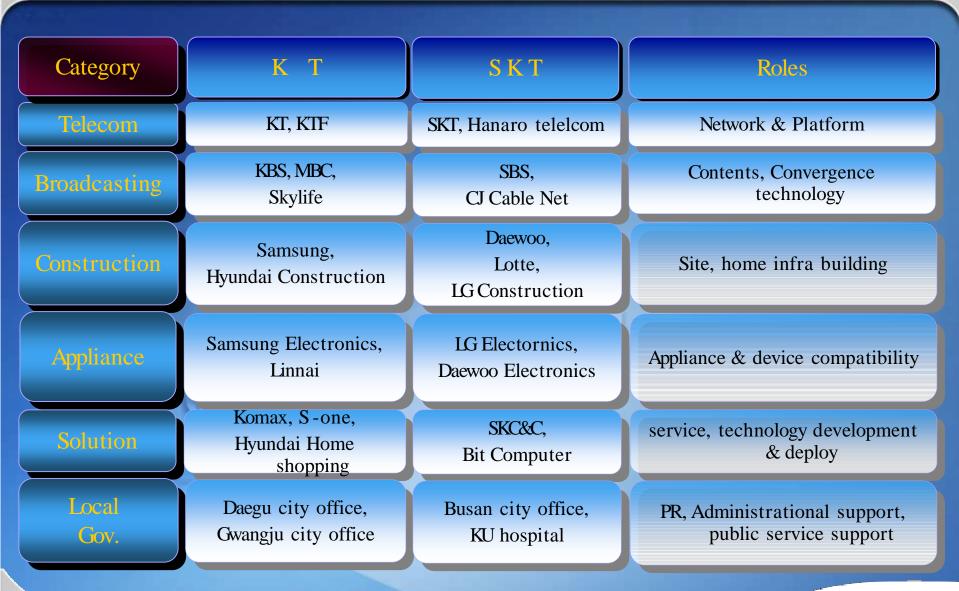


Consortium Status





Partners & Roles

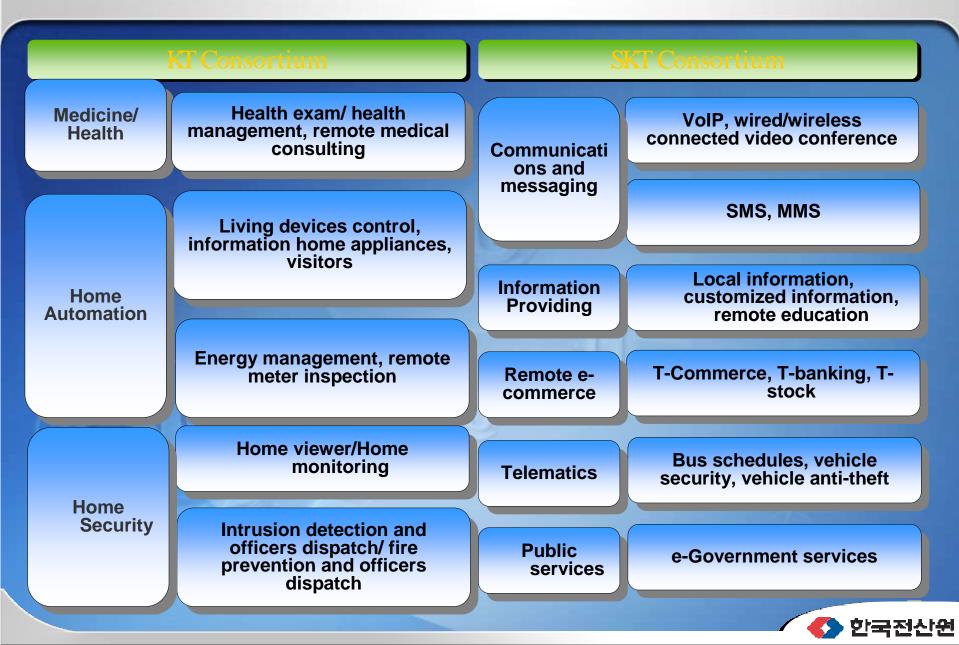




Trial Project Services



Trial Project Services





Device Location in Home



lome viewer

RIVER

Device control consent/sw<u>itch</u>

STB

R

Home Gatewa

Tele-medicine/consulting

Outdoor

Network

HA

Intelligent Running machine WLAN AP



Service UI (example)

□ Interactive DTV service : ACAP data broadcasting standard

T-Commerce



T-Poll

KBS C Interactive



T-Education





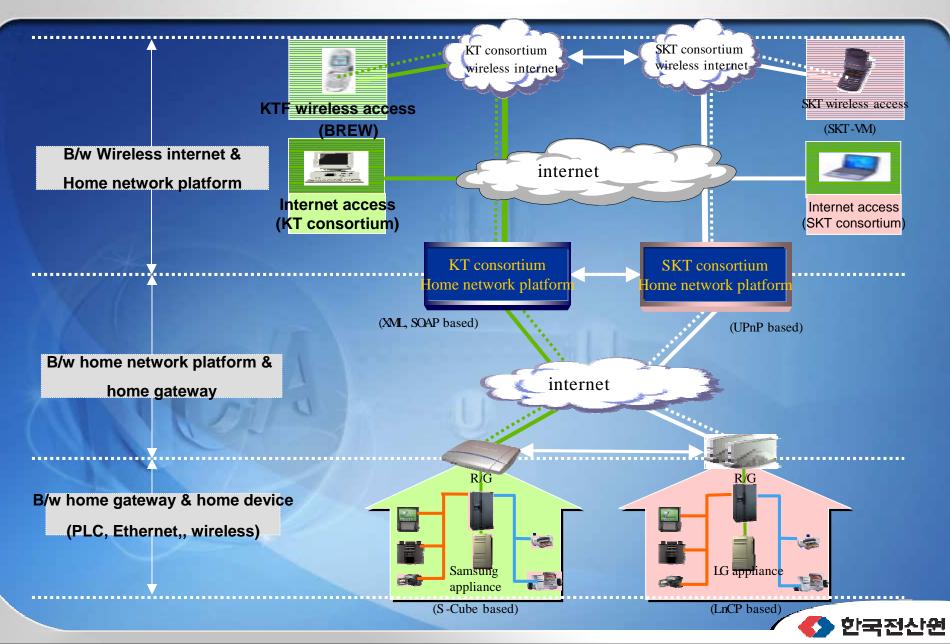


Appliance (example)





Compatibility Issue



Expected Result

Home : Pleasant & Convenient Info. Life Space Individual : Real Digital Life

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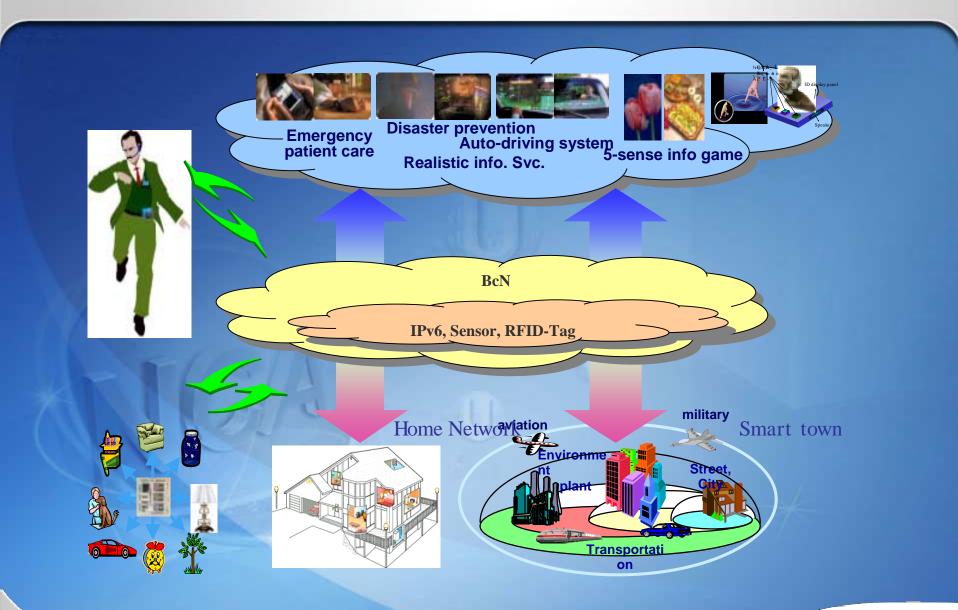
Today Home Network Tomorrow







Expected Result





Thank You!

