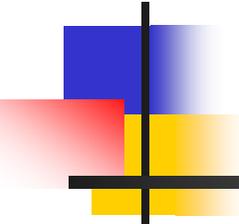


*Let's* **KT**



# Korean View of Broadband Perspectives

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**Nov. 4, 2003**

**Dr. Youngmin Chin**

**AVP**

**Service Development Lab, KT**

**[ymchin@kt.co.kr](mailto:ymchin@kt.co.kr)**

## Overview of Presentations

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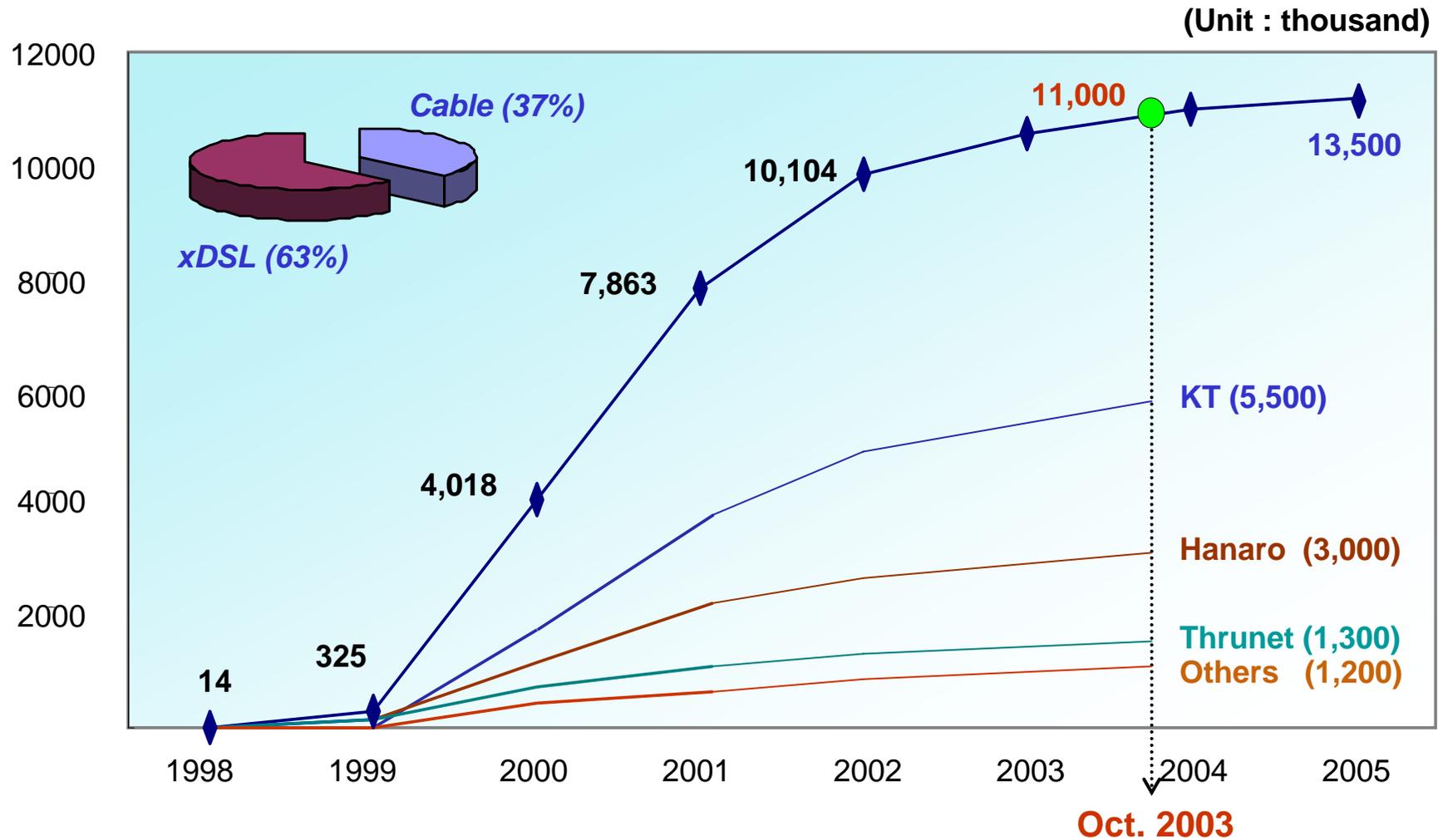
This presentation covers :

- Status report of broadband market in Korea
- KT's broadband service portfolio
- Network convergence  
(fixed and mobile, voice and data, indoor and outdoor)

## Statistics on broadband service in Korea

<b>Population</b>	<b>47.7 million</b>
<b>Household</b>	<b>14.8 million</b>
<b>Telephone subscriber</b>	<b>23 million</b>
<b>Cellular subscriber</b>	<b>34 million</b>
<b>Internet user</b>	<b>26 million</b>
<b>Broadband subscriber</b>	<b>11 million</b>
<b>W-LAN subscriber</b>	<b>310 thousand</b>

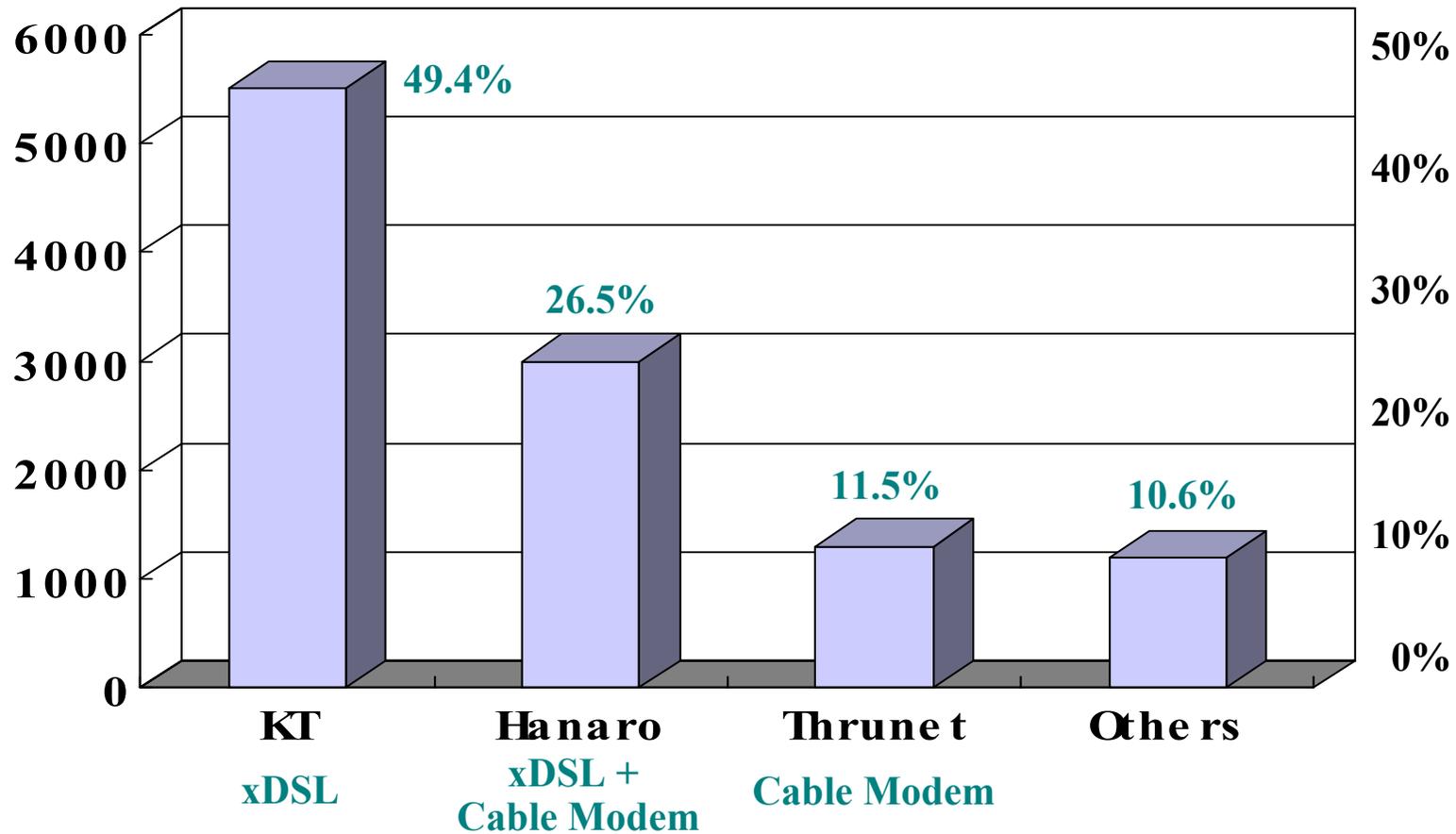
# Broadband market growth in Korea



## Broadband market share

- 76% of Korean households have broadband access

(unit : thousand)



## Success factors

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### Government policy

- ❖ steady policy for deploying high speed network infrastructure (10 year plan)

### Dense housing pattern

- ❖ cost effective deployment
- ❖ 50% of households live in apartment complex

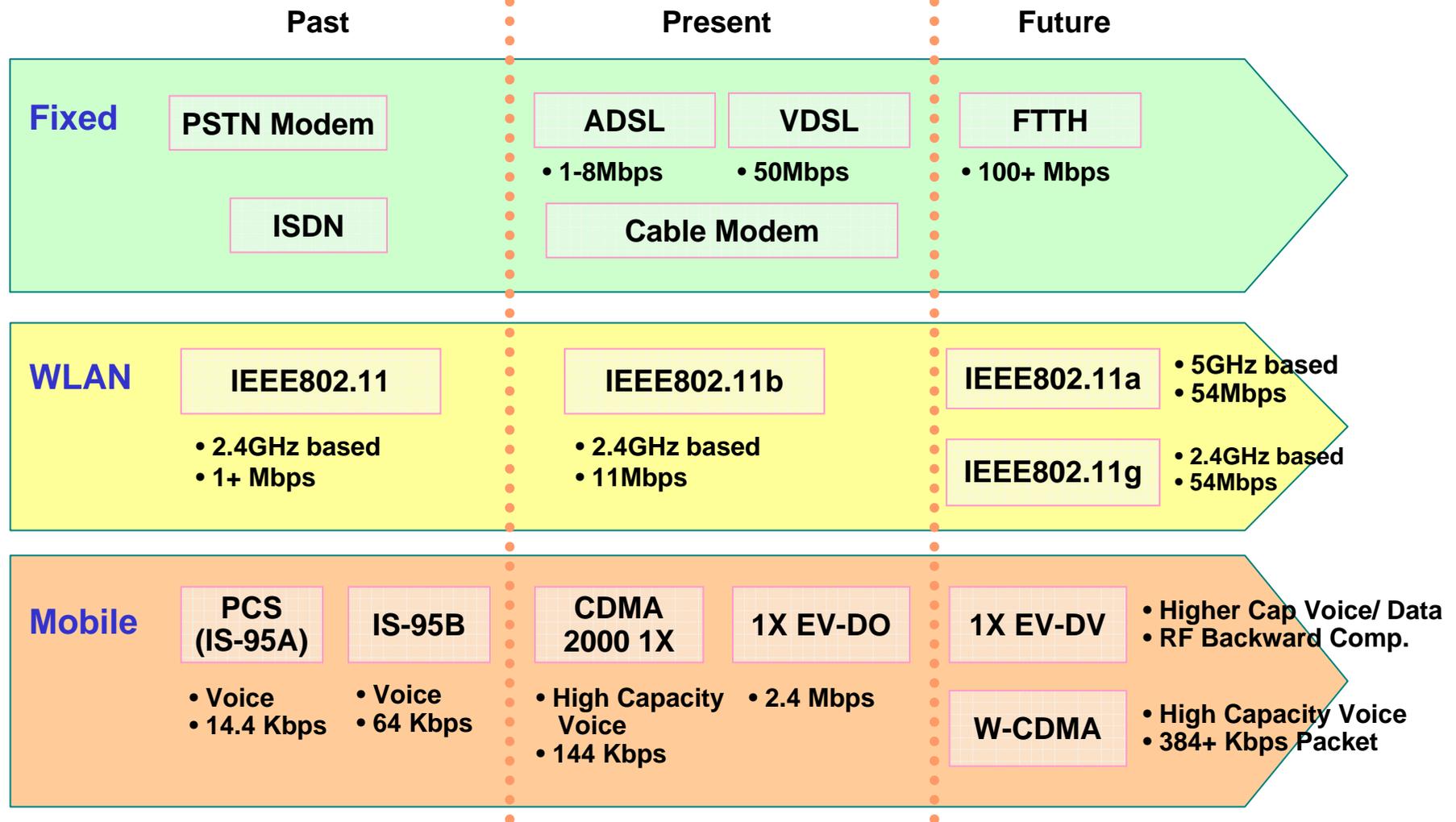
### Huge demand

- ❖ education fever, cyber stock trading
- ❖ Internet café : for Internet game or stock trading

### Competition

- ❖ 3 majors and dozens of small players
- ❖ low and flat rate tariff

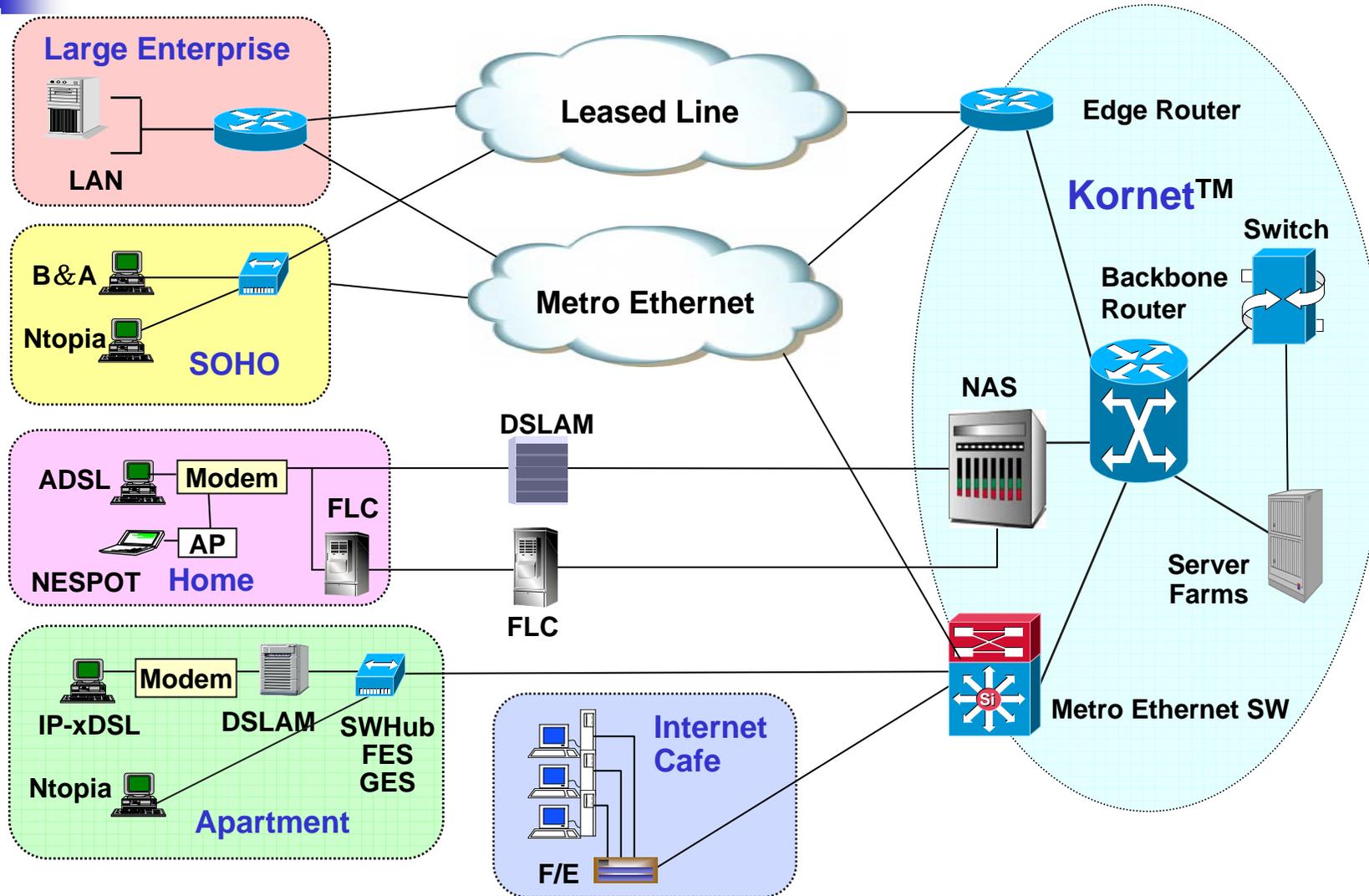
# Trend of broadband technology



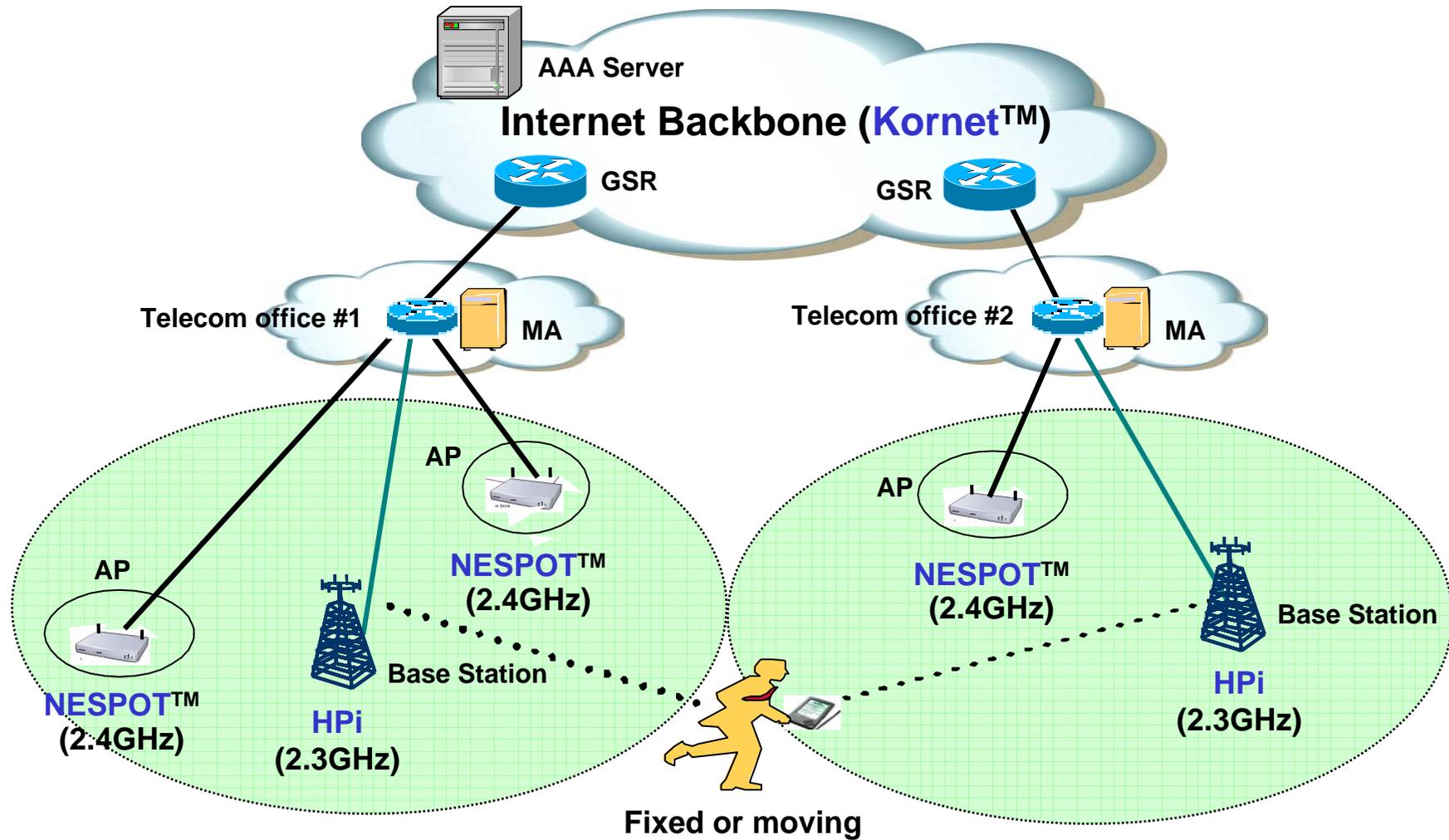
# KT's broadband service portfolio



# Broadband in fixed line

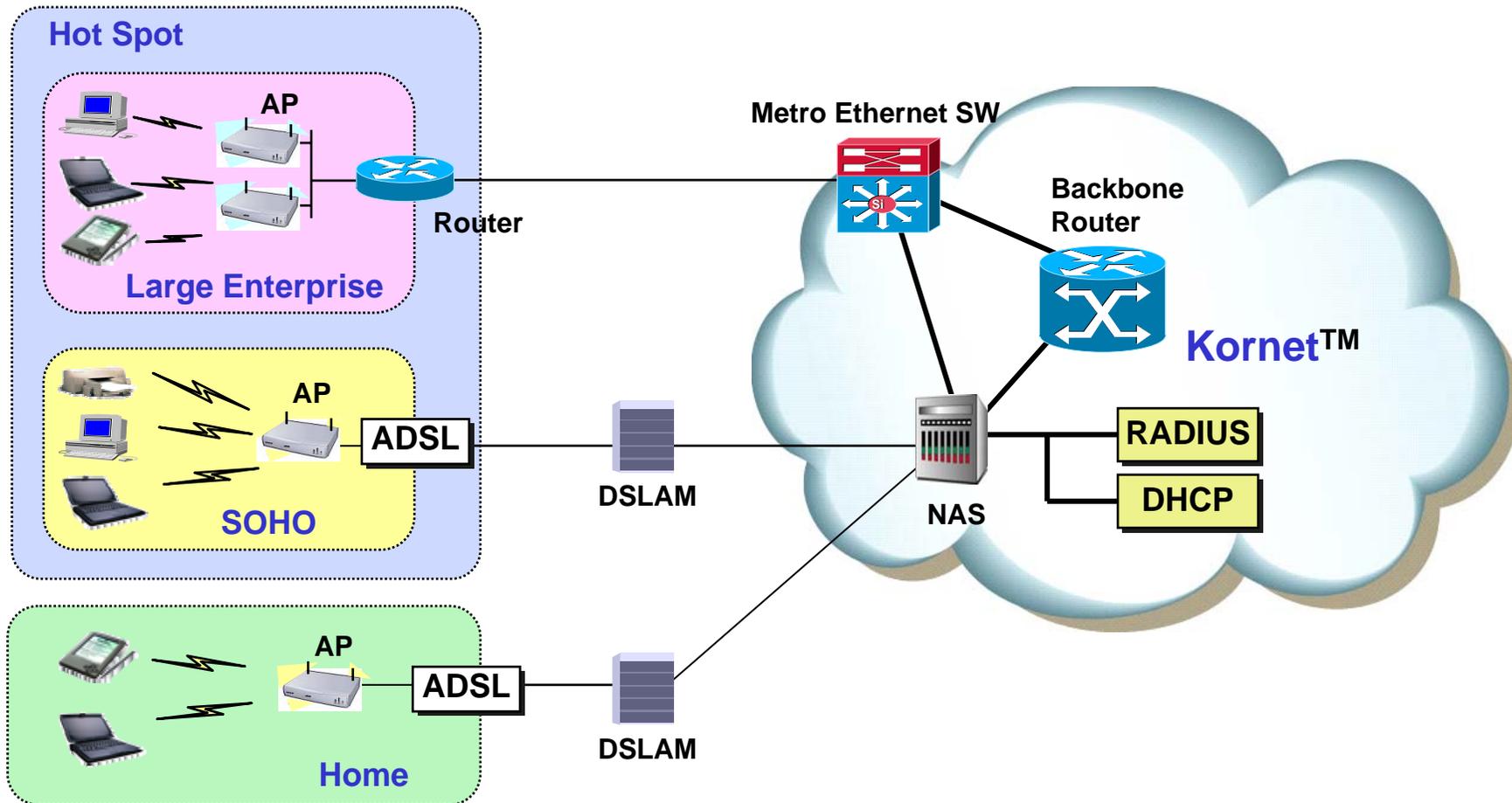


# Broadband in wireless or mobile



# NESPOT - KT's public wireless LAN

- 12 thousands of hotspots in airport, hotel, university, subway etc



# HPI - High speed Portable Internet

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## □ Concept

- ❖ mobile broadband service using 2.3GHz
- ❖ more than 1Mbps bandwidth with mobility and handover
- ❖ Notebook, PDA, Smart phone

## □ Schedule

- ❖ standardization : 2004. 2Q
- ❖ carrier assignment : 2004. 4Q
- ❖ service : 2005. 2Q

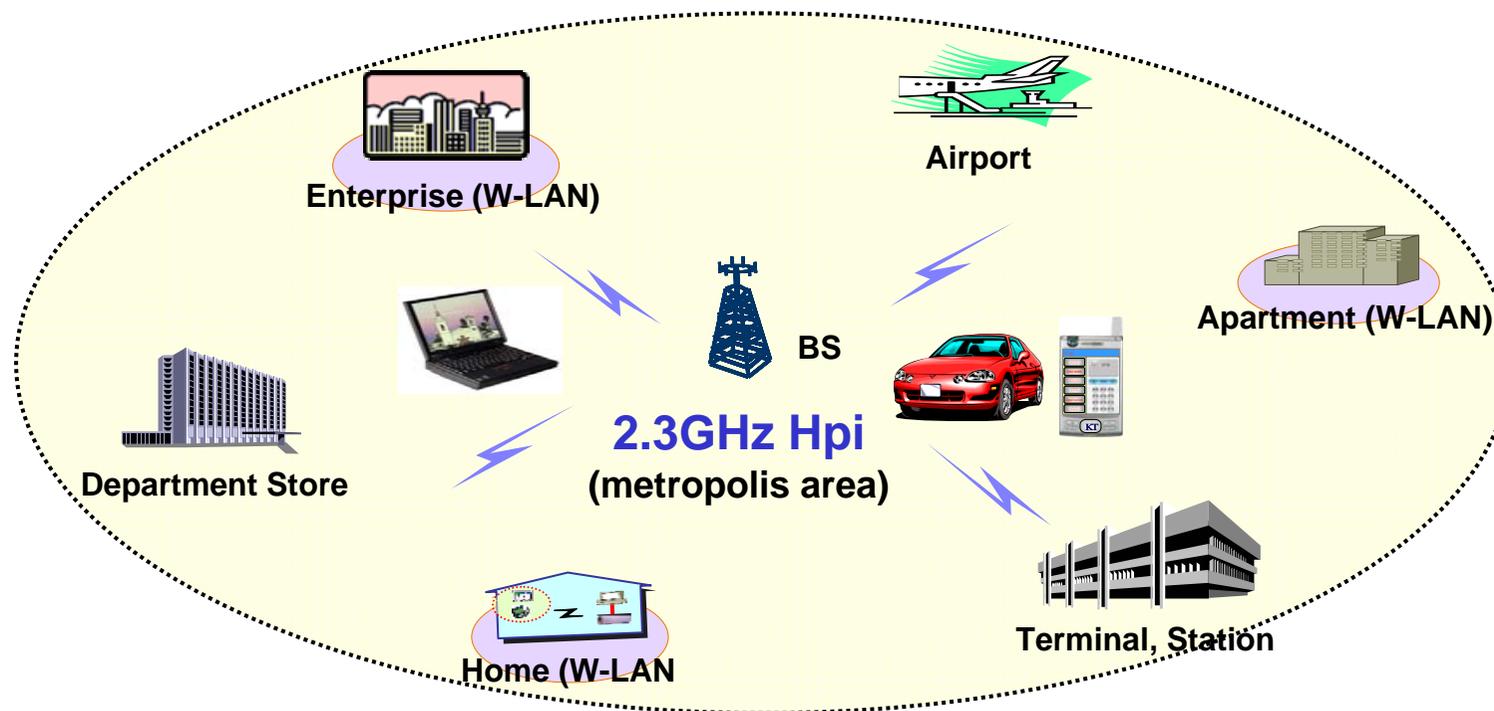
## □ Points at issue

- ❖ technology standard
- ❖ number of carriers
- ❖ candidates : KT, SKT, Hanaro

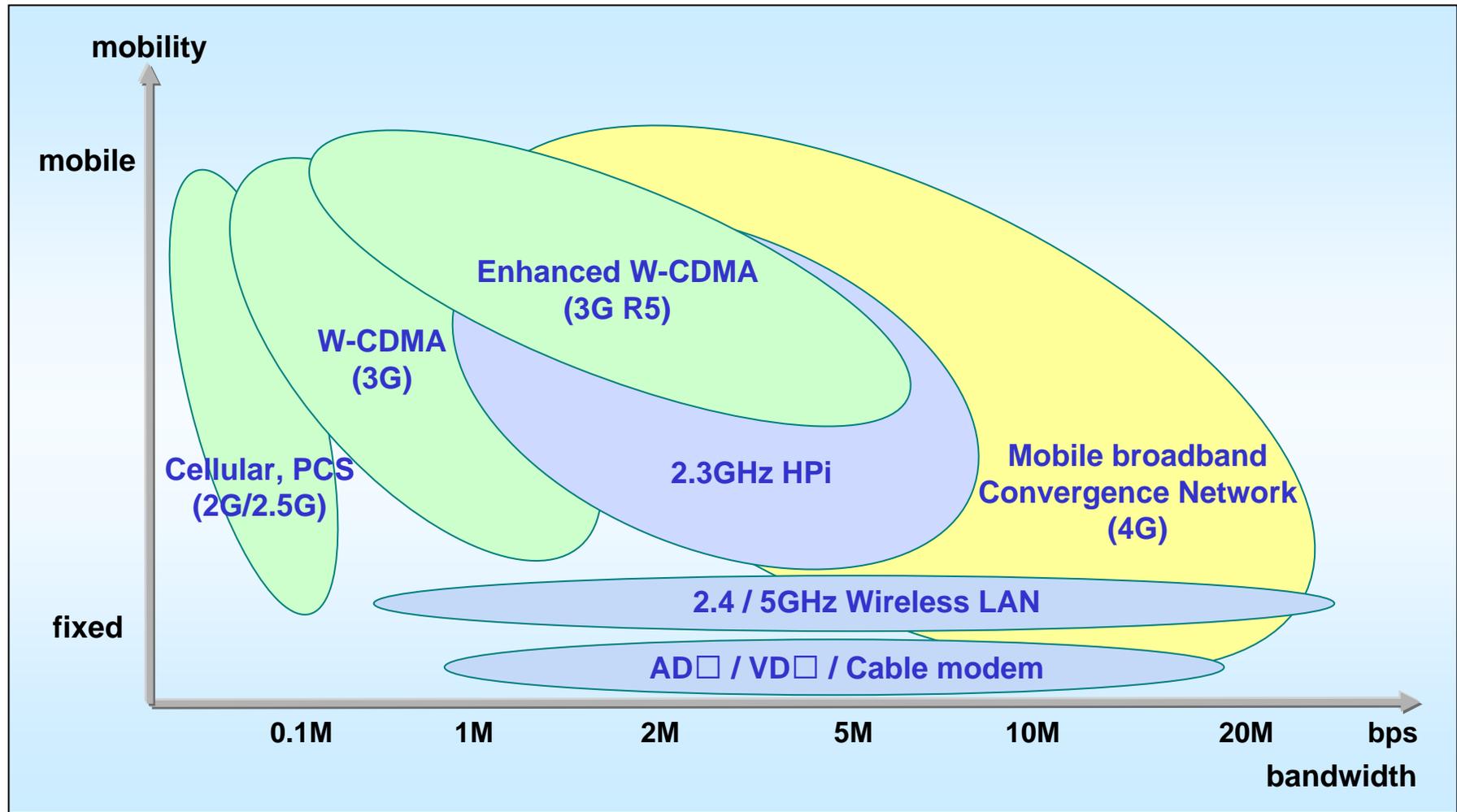
# HPi - High speed Portable Internet

## □ Outdoor expansion of NESPOT

- ❖ high speed Internet access service in moving
- ❖ hot spot → hot zone outdoors
- ❖ mobile broadband access in metropolis area



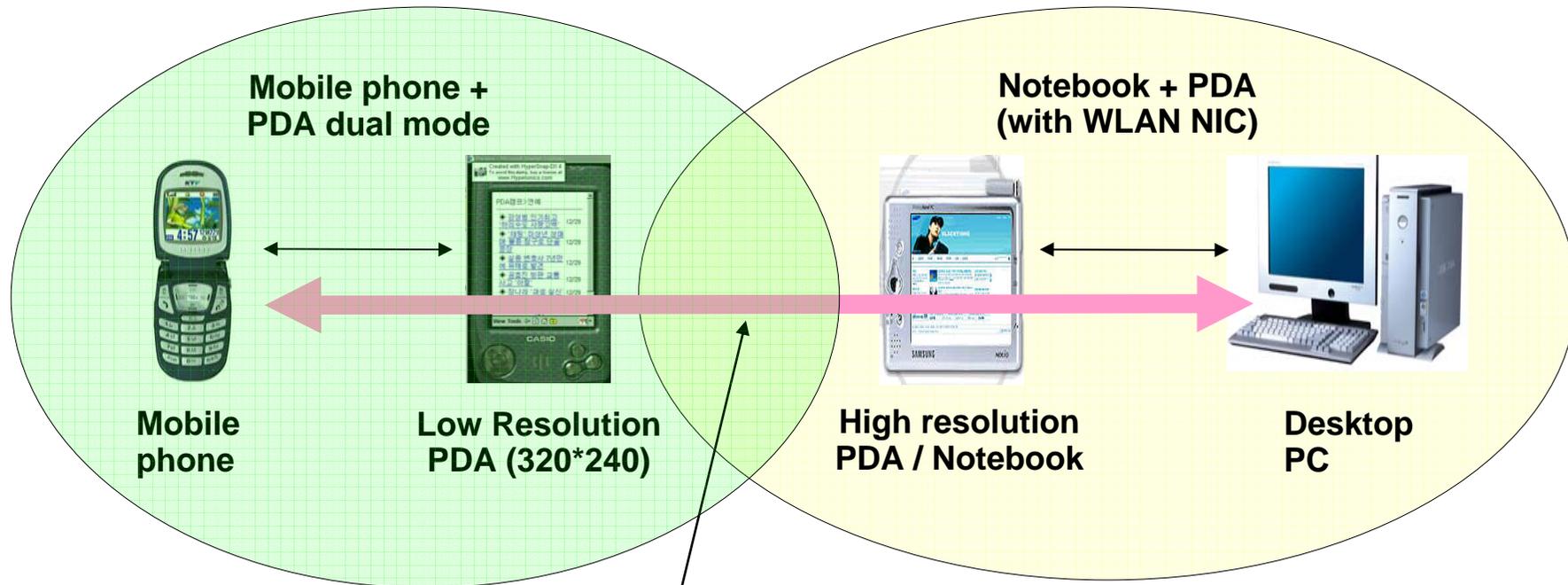
# Positioning of broadband technology



# Convergence of fixed and mobile network

## Mobile Networking Area

## Fixed Networking Area



Seamless service through fixed and mobile convergence network

# NGN - Next Generation Network

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## □ Concept

- ❖ simple network, flexible network, value creating network
- ❖ replacement of POTS service based on IP network
- ❖ IP communication service with Soft Switch
- ❖ unified service of voice and data

## □ Schedule

- ❖ soft switch development with LG electronics : 2004. 1Q
- ❖ trial service : 2004. 3Q
- ❖ commercial service : 2005. 1Q

## □ Points at issue

- ❖ numbering, billing, QoS, O&M
- ❖ will it be the cash cow?
- ❖ what is the killer application of NGN service?

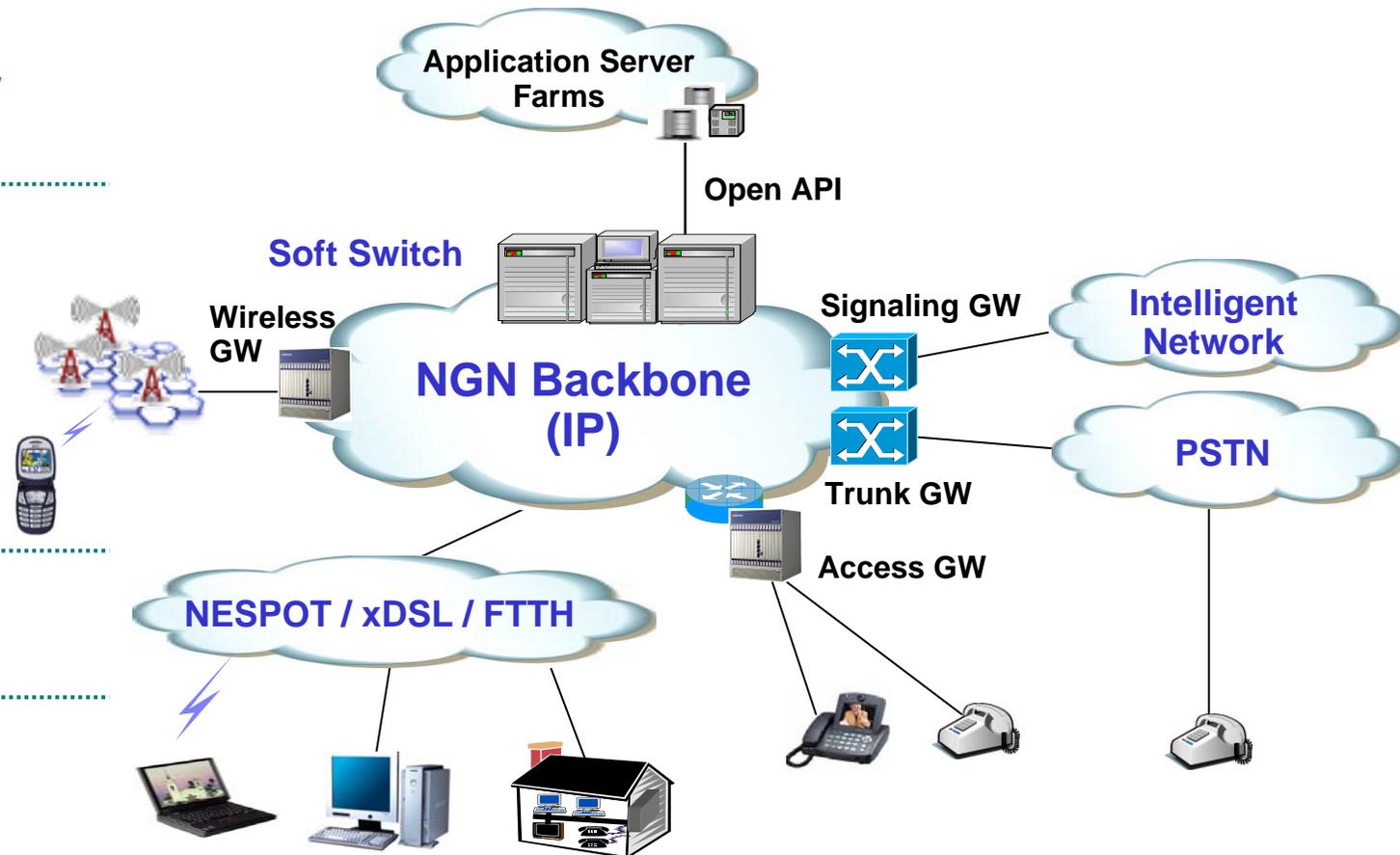
# Convergence of voice and data network

Service and  
Control Layer

Transport  
Network

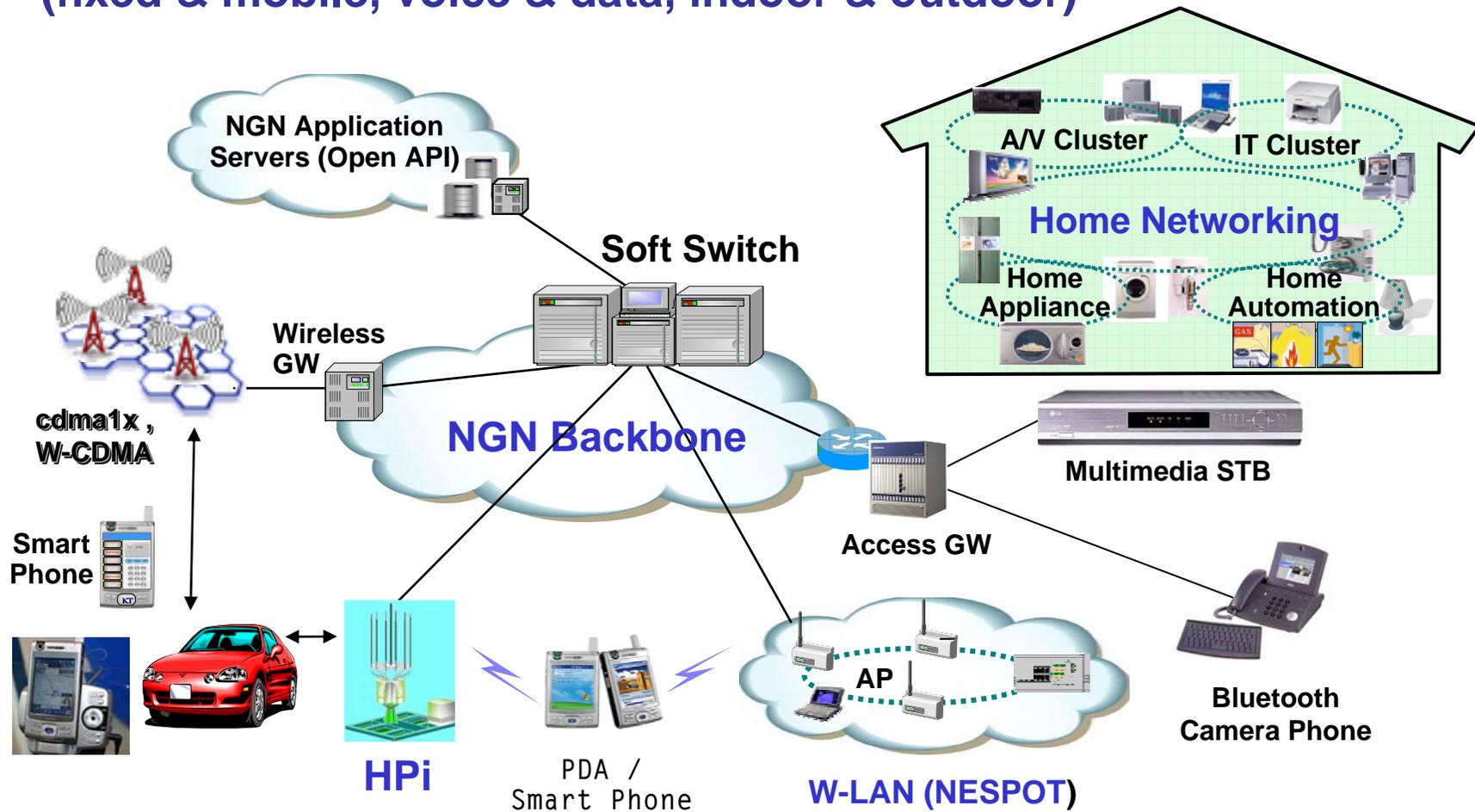
Access  
Network

Home /  
Terminal



# Network convergence

- toward the ubiquitous network infrastructure (fixed & mobile, voice & data, indoor & outdoor)



## Summary and future perspectives

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- IT industry in Korea continues to be expanding based on nationwide broadband networks
  - ❖ various new e-Biz will be flourished on the broadband infra
  - ❖ electronic transaction rate will be expected over 30% in 2006
- Focusing on how to increase ARPU.
  - ❖ value added service will increase ARPU of broadband user
- Realizing the network convergence in 2005
  - ❖ services can be connected at anywhere, anytime on any device seamlessly
- Providing higher speed fixed or mobile networking services at lower cost
  - ❖ multimedia streaming services can be carried over more than 10Mbps interactively