



# KR-JP IPv6 Cooperation Plan

**January 22, 2003**

**N C A**

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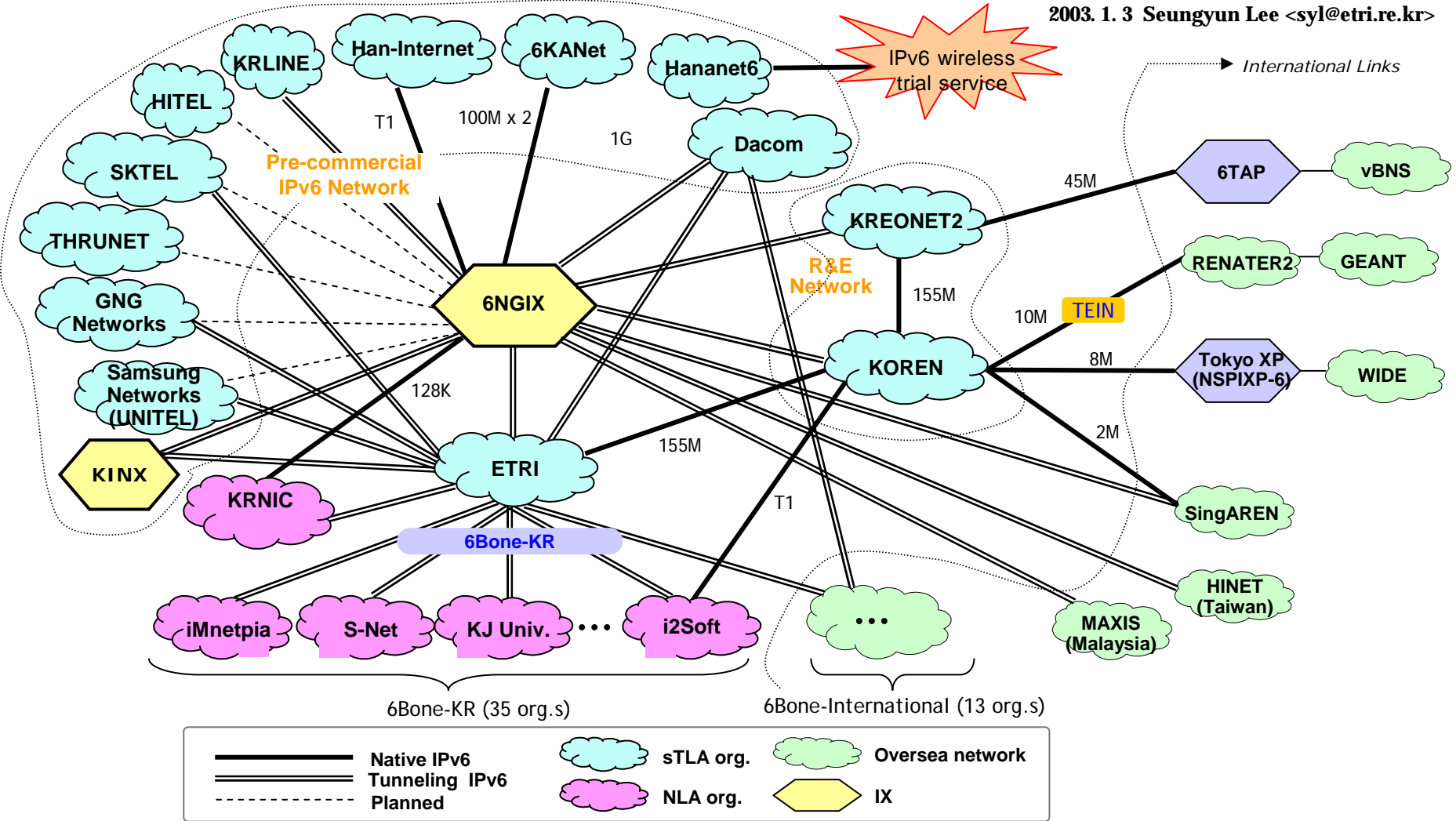
# IPv6 Status In Korea

# IPv6 Network (1)

- 6Bone-KR : The first IPv6 testbed in Korea
- KOREN IPv6 : inter-connect with several overseas IPv6 network (through APII, TEIN)
- 6KANet : Provide public institutions with IPv6 internet services
- 6NGIX : IPv6 Internet eXchange

# IPv6 Network (2)

2003. 1. 3 Seungyun Lee <syl@etri.re.kr>



# IPv6 Technical Development

## ■ IPv6 Application : NCA

- ➔ High-quality Multimedia based Real-time Emergency Telemedicine Service
- ➔ Development of SIP based VoIPv6 & High Level Application
- ➔ Real-time Virtual Conference using IPv6 Multicast
- ➔ Development and Implement of Mobile Services in the Next Generation Internet
- ➔ Development and Implement of Advanced Integrated Interface System based on Next Generation Internet for Measurement and Control

## ■ Network Technology : ETRI

- ➔ 6TALK : IPv4/IPv6 Translation technology
- ➔ 6NATS : IPv6 autoconfiguration technology
- ➔ 6NEAT : Research for the IPv6 Network and Application testbed

# IPv6 Test Activity

## ■ IPv6 Test-Institutes

- ⇒ Test WG (IPv6 Forum Korea)
- ⇒ Interoperability test between IPv6 equipment (TTA)
- ⇒ ION(Interoperable Open Network) : Interoperability test between IPv6 equipment

## ■ Trial Services

- ⇒ IPv6 Webcast : [ngix.ne.kr/ncaipv6](http://ngix.ne.kr/ncaipv6) (NCA)  
[v6stream.6neat.net](http://v6stream.6neat.net) (ETRI)



# Future Plan for IPv6 in Korea



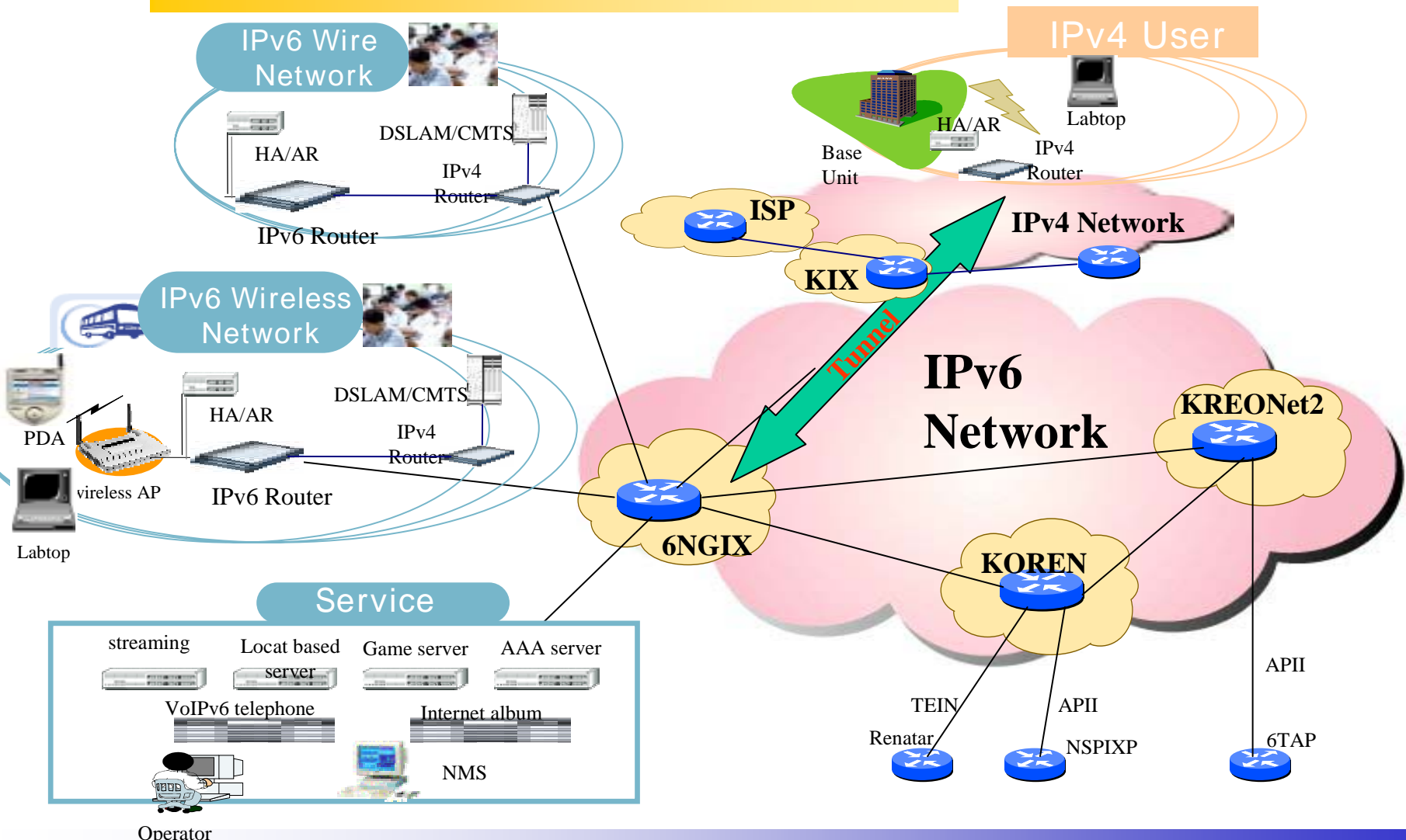
# Key Activity

- Build Large-Scale IPv6 Network for trial of IPv6 equipment & applications → [KOREAv6](#)
- Open demonstration room of IPv6 applications → [IPv6 Showroom](#)
- Interconnection of IPv6 network between Korea and other nations(Japan, Europe etc.),
- Joint study of IPv6 with overseas research institutes

# KOREAv6 Network (1)

- Build Large-scale IPv6 Network (KOREAv6)
  - ➡ interconnect existing IPv6 networks(6NGIX, KOREN, 6KANet...) in Korea
  - ➡ build IPv6 wireless network in cooperation with ISP for providing IPv6 services to some hot spots(wireless LAN)
  
- Deploy and test IPv6-based equipment & applications developed in Korea

# KOREAv6 Network (2)

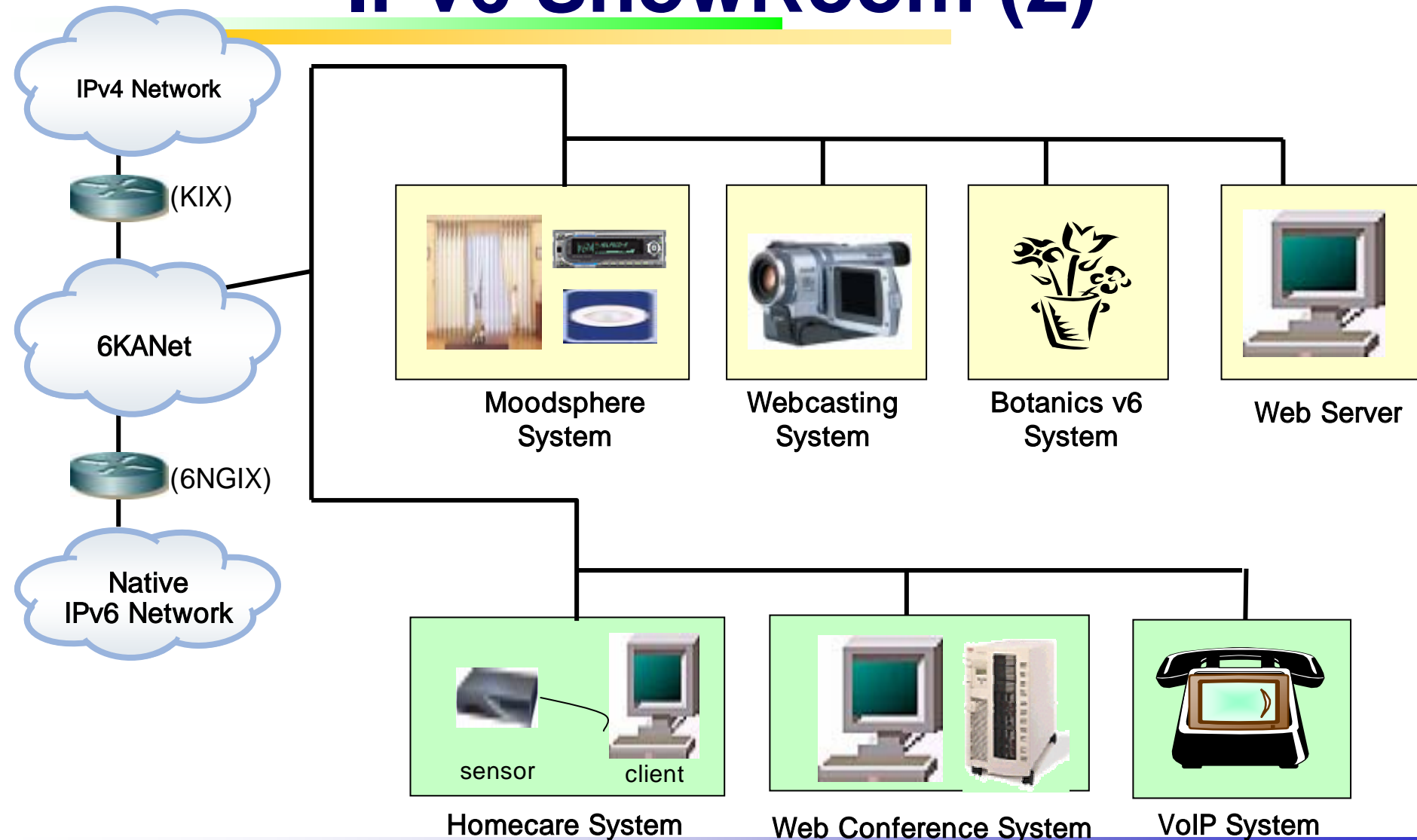


Operator

# IPv6 ShowRoom (1)

- Place : NCA Building. Mugyo-dong, Jung-gu, Seoul
- Open : 2003. 6. ~
- Applications & Services
  - ➔ MoodSphere System : light, curtain, music, ...
  - ➔ Botanic v6 System :
  - ➔ VoIP System
  - ➔ Homecare System
  - ➔ Web Conference System
  - ➔ Webcasting System
  - ➔ Web Server

# IPv6 ShowRoom (2)

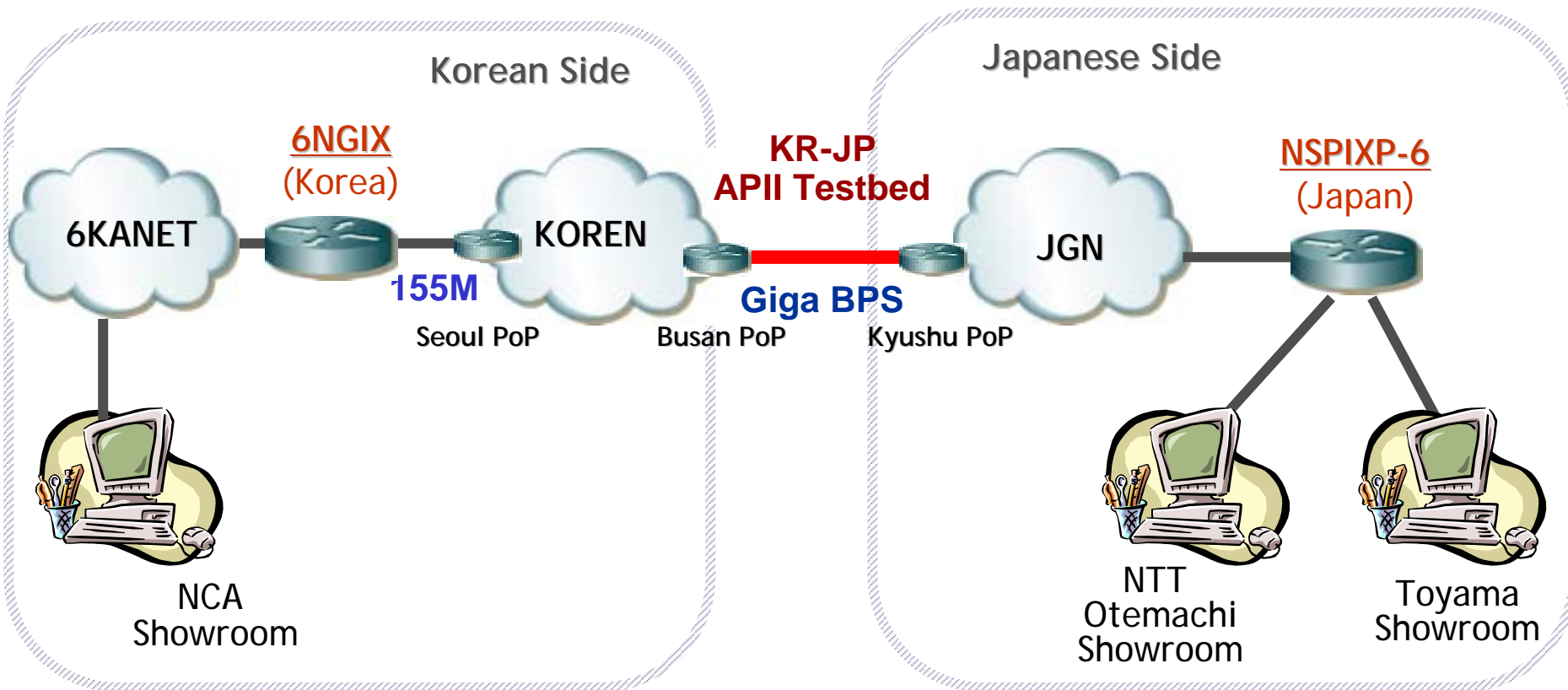




# Korea-Japan IPv6 Cooperation Plan

# IPv6 Native Network (Plan)

- Interconnection of IPv6 Networks for showrooms using KR-JP APII Testbed



# Exchange Programs of IPv6 Showroom

- Remote Control Service :  
e.g. : Remote controlling of IPv6-enabled web camera at Japanese showroom (*Galleria v6*) from Korea
- Exchange of demo tape
- Donation of IPv6 applications & IPv6-enabled info-appliance (e.g. : Internet Refrigerator)
- Exhibition of IPv6 applications at IPv6 events such as IPv6 workshop, IPv6 summit held at each side



# IPv6 Joint Research

- Research Joint Project and Perform Co-Study
- Research Area (example)
  - ➔ Management of IPv4+IPv6 network
  - ➔ Multicast
  - ➔ IPv6 mobile technology
  - ➔ Quality of Service (QoS)
  - ➔ Security
  - ➔ IPv6 Standard



# Thank You !!

*E-mail : [sibyun@nca.or.kr](mailto:sibyun@nca.or.kr)*