

The background features a stylized illustration of two faces. The face on the left is purple, and the face on the right is light blue. Both faces are smiling and have their eyes closed. The faces are surrounded by various colorful shapes, including yellow triangles and green and purple curved lines, creating a vibrant and celebratory atmosphere.



Korea–China Video Experiment – Revised –

2006.3.2

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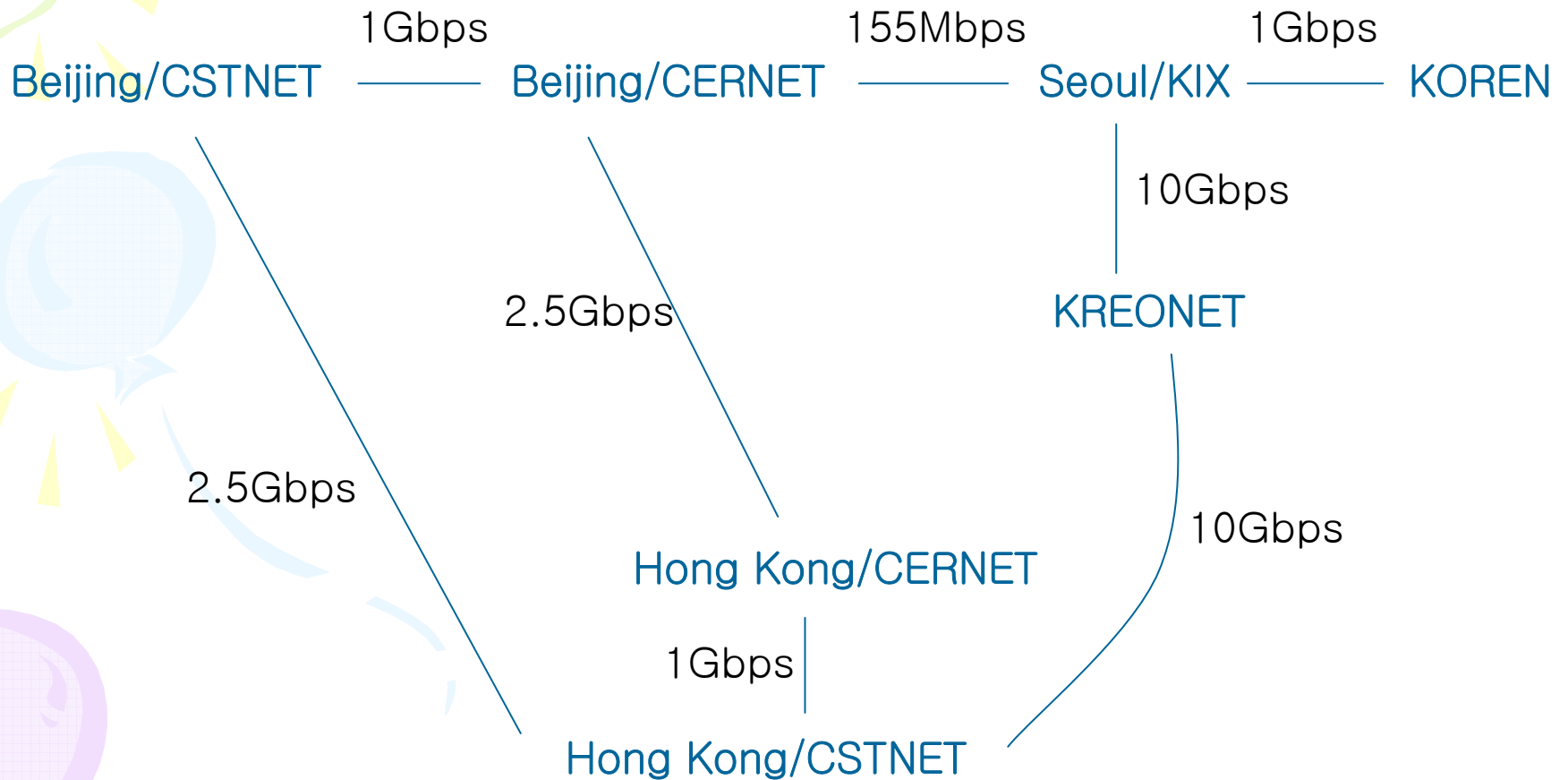
1. Objective
 2. China–Korea Research and Education
Network Map
 3. Video
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A decorative graphic on the left side of the slide features three balloons in green, blue, and purple, each with a grid pattern and a small smiley face. Yellow streamers and triangular flags are attached to the balloons, extending across the left edge of the slide.

1. Objective

Experiment on video transmission between Korea and China, and prepare for various video applications including remote class and seminar.

2. China–Korea Research and Education Network Map





3. Video

H.3xx

320*240

SDTV/DVD

640*480 or 720*480

HDTV

1920*1080i or 1280*720p



4. Past Experiment

2005.3

KAIST(Daejeon, Korea) – Tsinghua(Beijing, China)
HDTV/MPEG2(~20 Mbps)



2005.10

KAIST – CERNET – Yanbian University/YUST
Net Meeting (~1 Mbps)

2006.2



KAIST – Hong Kong – CSTNET/Beijing
KAIST – Hong Kong – CERNET/Beijing
HDTV/Uncompressed (~900 Mbps)



5. Next Steps

5.1. 2006

SDTV/HDTV with MPEG2 – Experiment
Yanbian – Beijing – Daejeon

5.2. 2006–2007

SDTV/HDTV with MPEG2 – Remote Class
Yanbian – Beijing – Seoul – Daejeon
YBU Tsinghua ? KAIST
YBUST CAS KISTI

5.3. 2006–2007

HDTV without Compression – Experiment
Beijing – Daejeon





6. Remark

a. Yanbian– (Jinlin) – Beijing Link

Need big bandwidth(10~155 Mbps) and/or QoS(CoS)



b. Hong Kong Exchanges

Need a good exchange with 2.5~10 Gbps for
HARNET/CSTNET/CERNET

c. IPv6 is expected to be used.



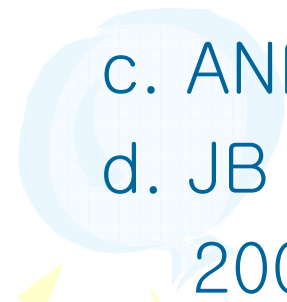
d. Compression

MPEG2 is becoming common for SDTV and HDTV now.

MPEG4 is expected to be common by 2010.



Reference

- a. KAIST HDTV Project, cosmos.kaist.ac.kr
 - b. GIST HDTV Project, gist.ac.kr
 - c. ANF HDTV WG, anf.ne.kr
 - d. JB Lee, Memon on KAIST–Tsinghua Experiment, 2005.3.
 - e. JBLee, et al, Memo on KAIST–Yanbian Test, 2005.10.
 - g. JB Lee, et al, Memo on KAIST–CSTNET/CERNET Test, 2006.2
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