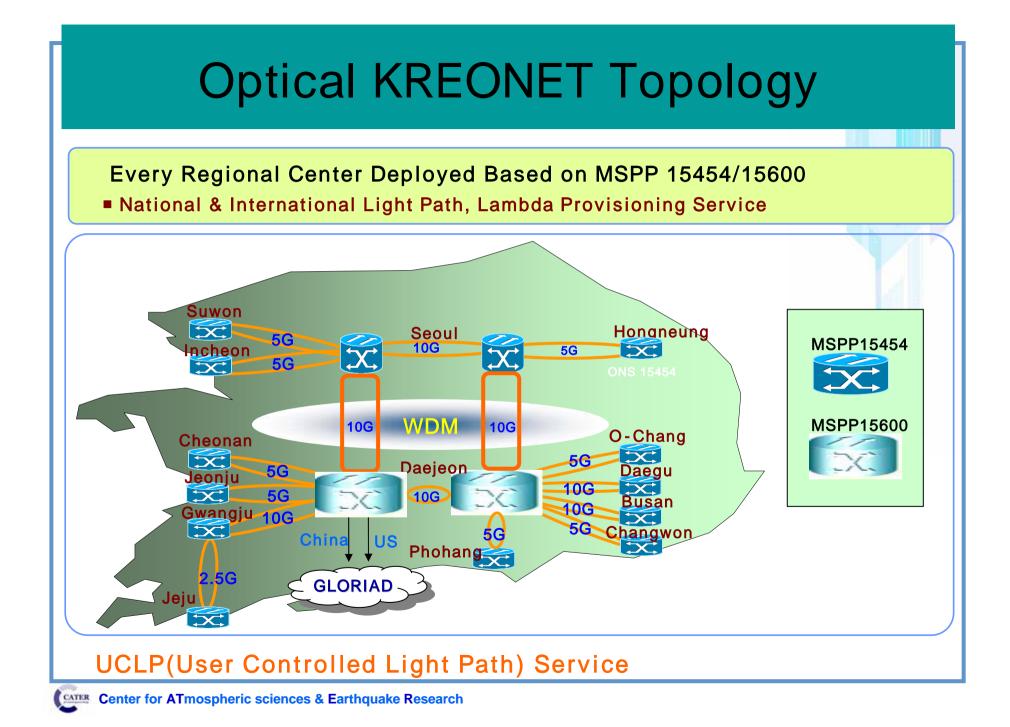
An Attempt to Apply the AG system to Atmospheric Science Community - ubiquitous lecture for FAS -

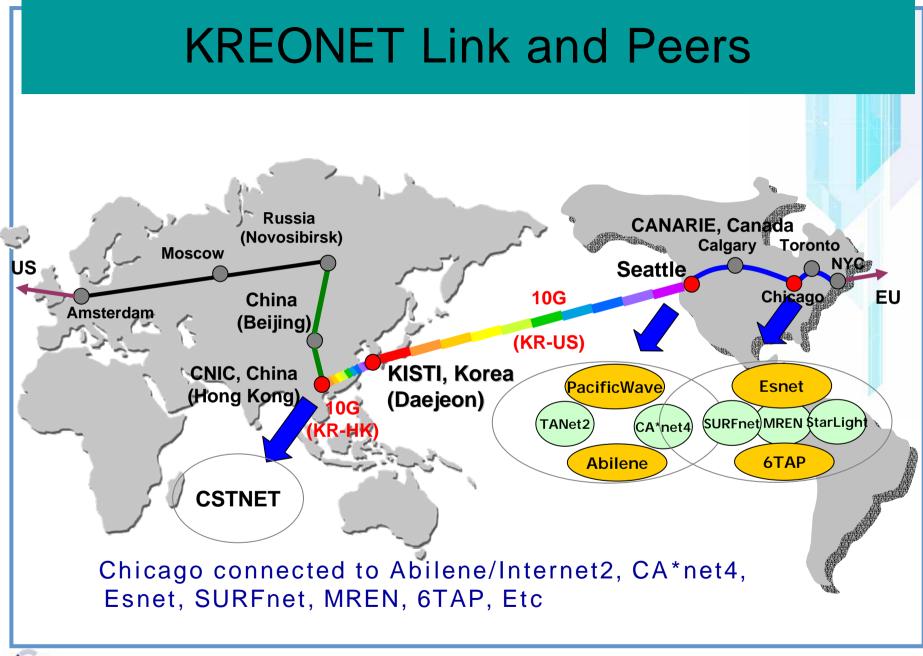


Dept. Env. & Atmos. Sci., Pukyong National University

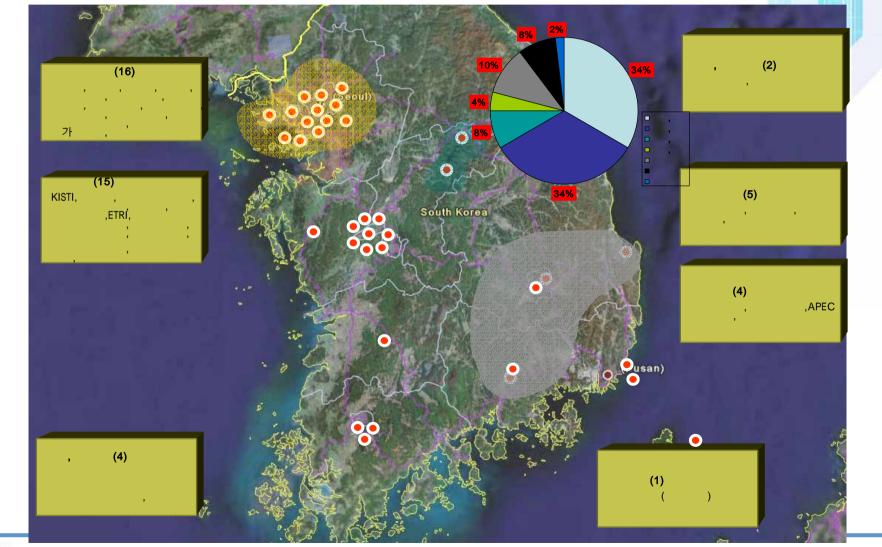
Busan, Korea

jhoh@pknu.ac.kr

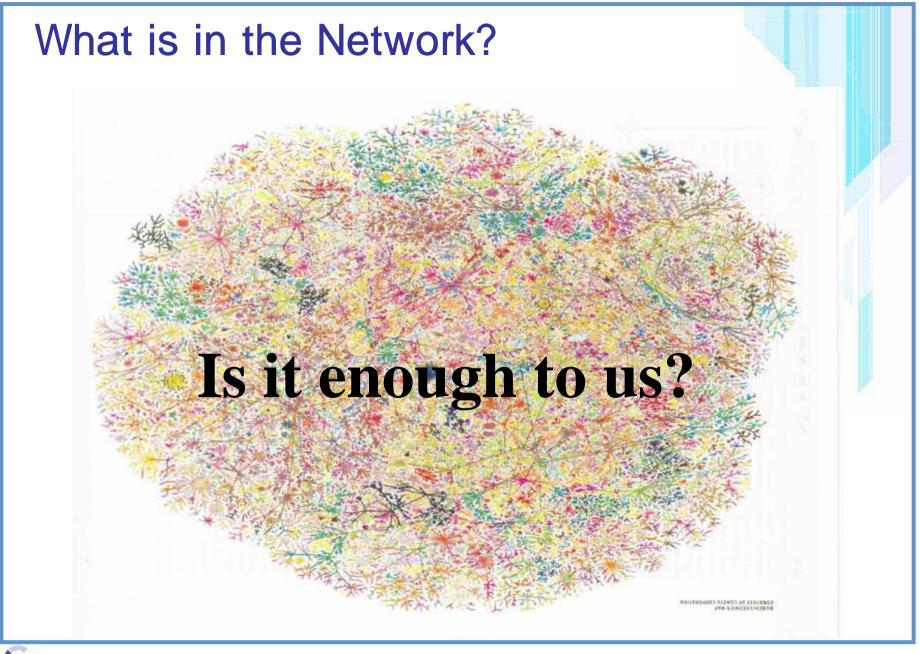


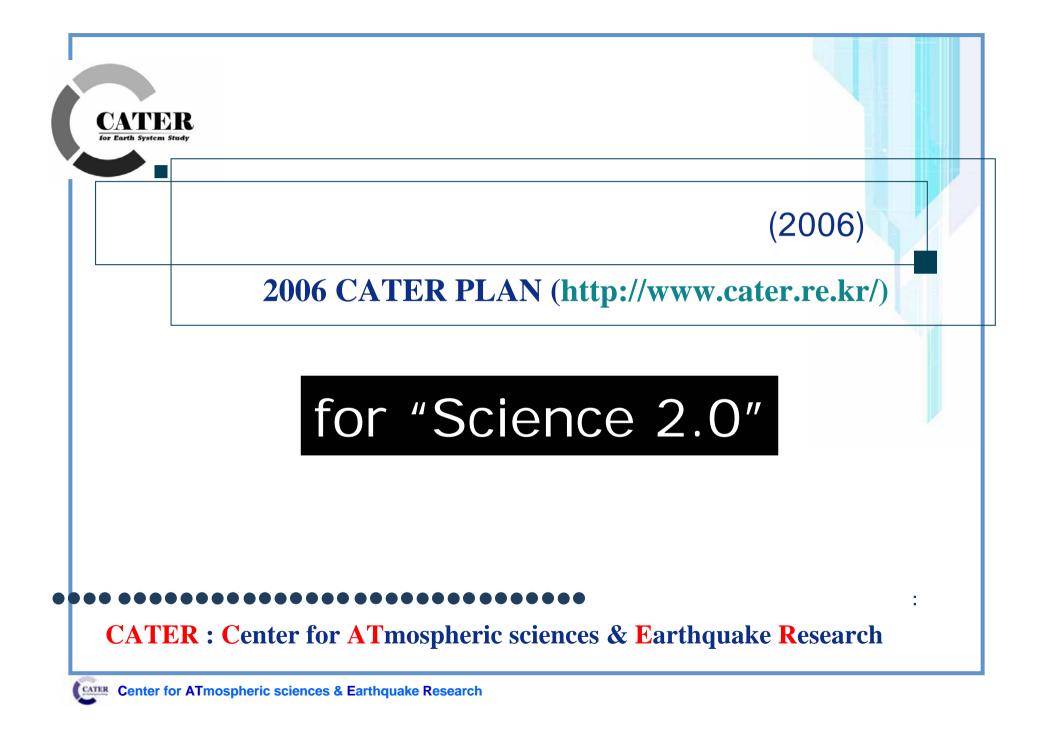


Lambda networking among organizations in Korea







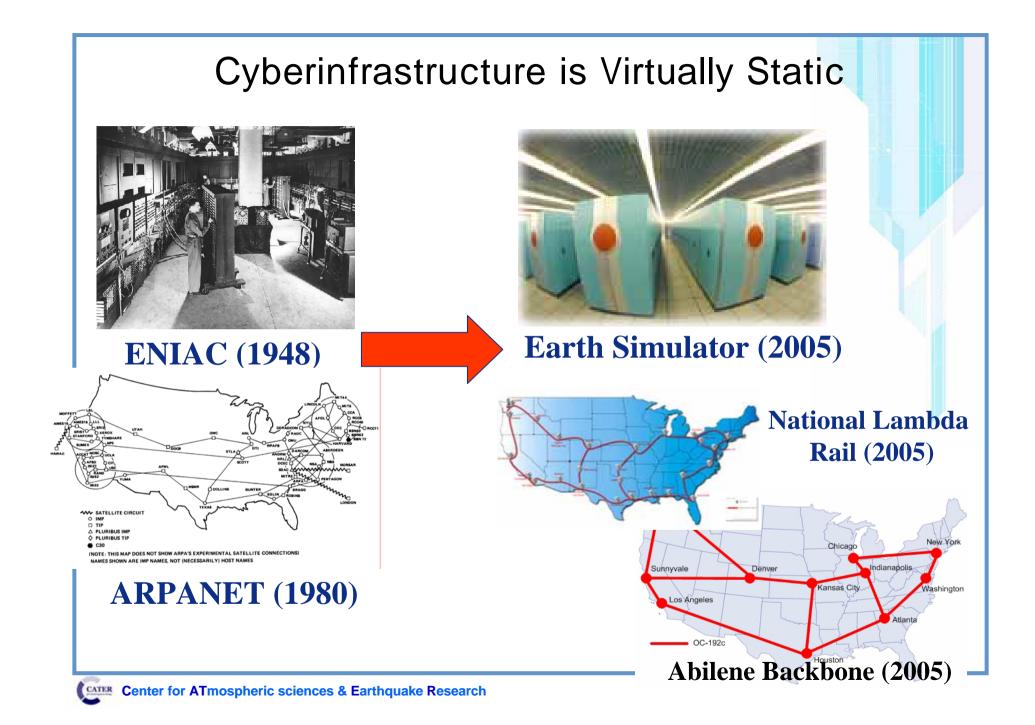


Tech. Development in Web 2.0 (symantic Web) era Science $1.0 \rightarrow$ Science 2.0

Gigabytes \rightarrow Terabytes Tarballs \rightarrow Services Journals \rightarrow Wikis **Individuals** \rightarrow Communities Community codes \rightarrow Science gateways Supercomputer centers \rightarrow TeraGrid, OSG, campus Makefile \rightarrow Workflow Computational science \rightarrow Science as computation **Physical sciences** \rightarrow All sciences (& humanities) Computational scientists \rightarrow All scientists

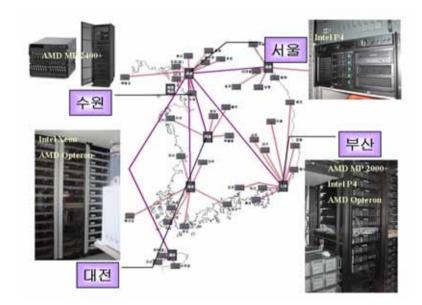
> lan Foster **Computation Institute** Argonne National Lab & University of Chicago





Application of AG Tech. to Atmospheric Sciences

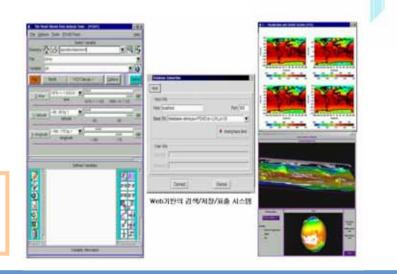
Ubiquitous lecture for FAS with AG (Web simulator, remote training of FAS)

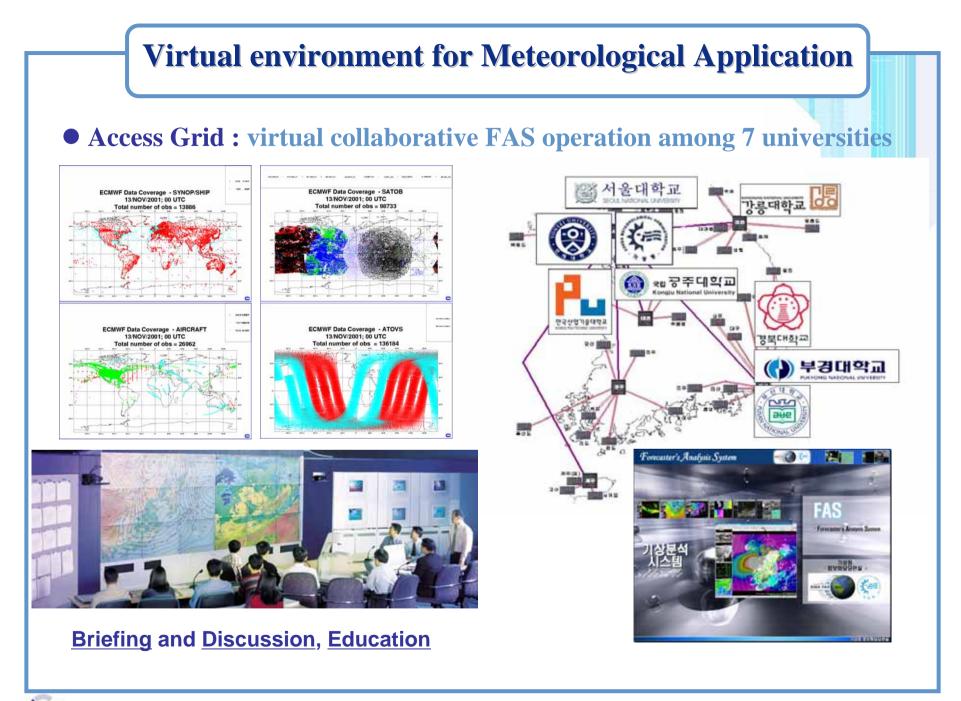


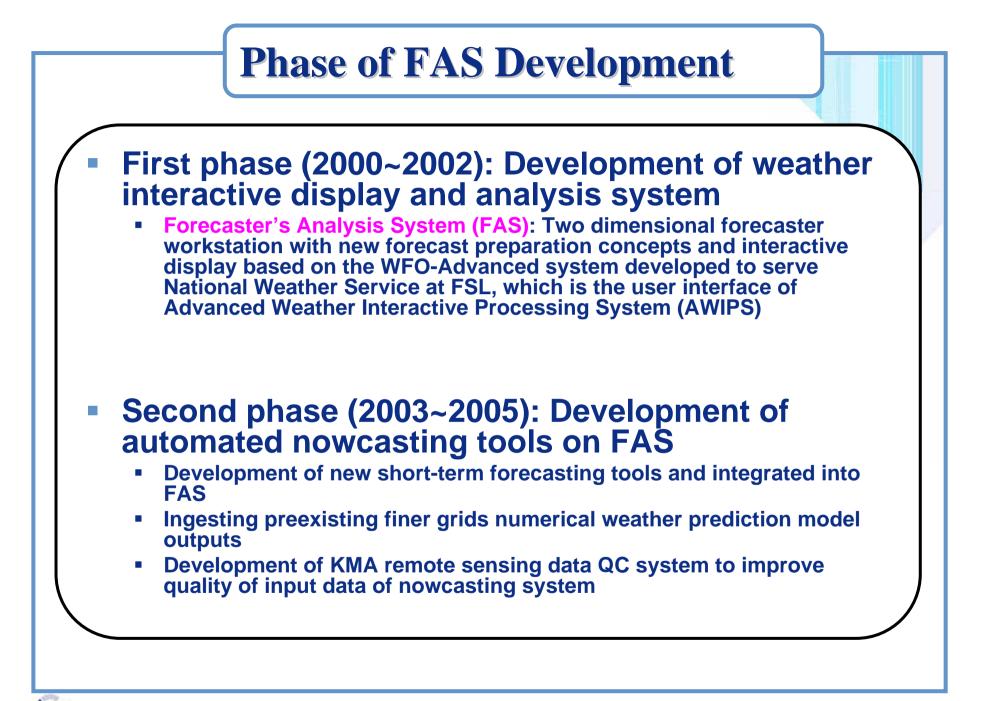
Client oriented interface for inspection/acquisition/display in the CATER data portal

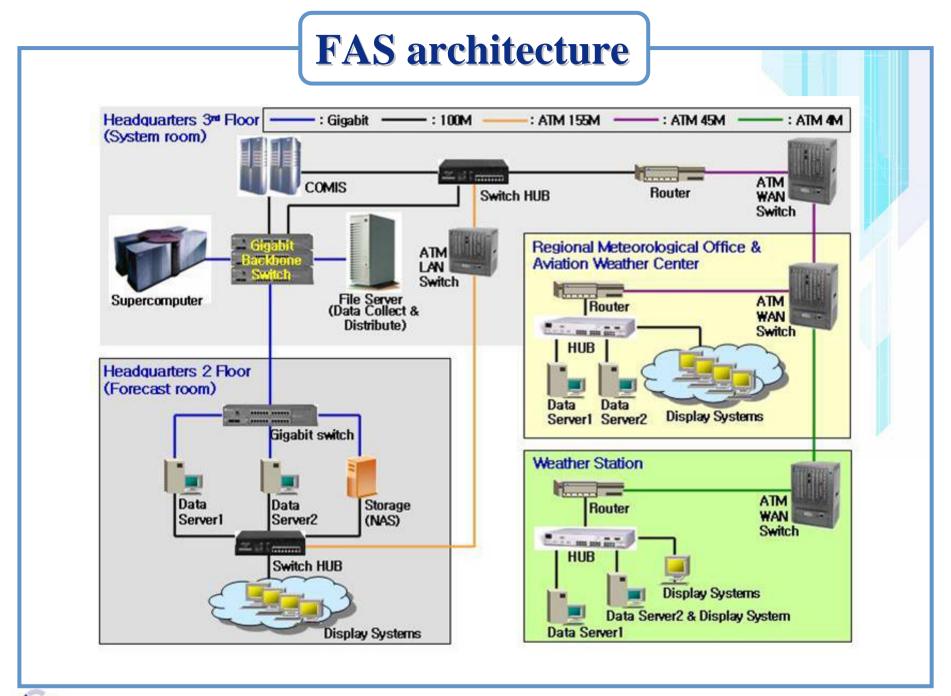


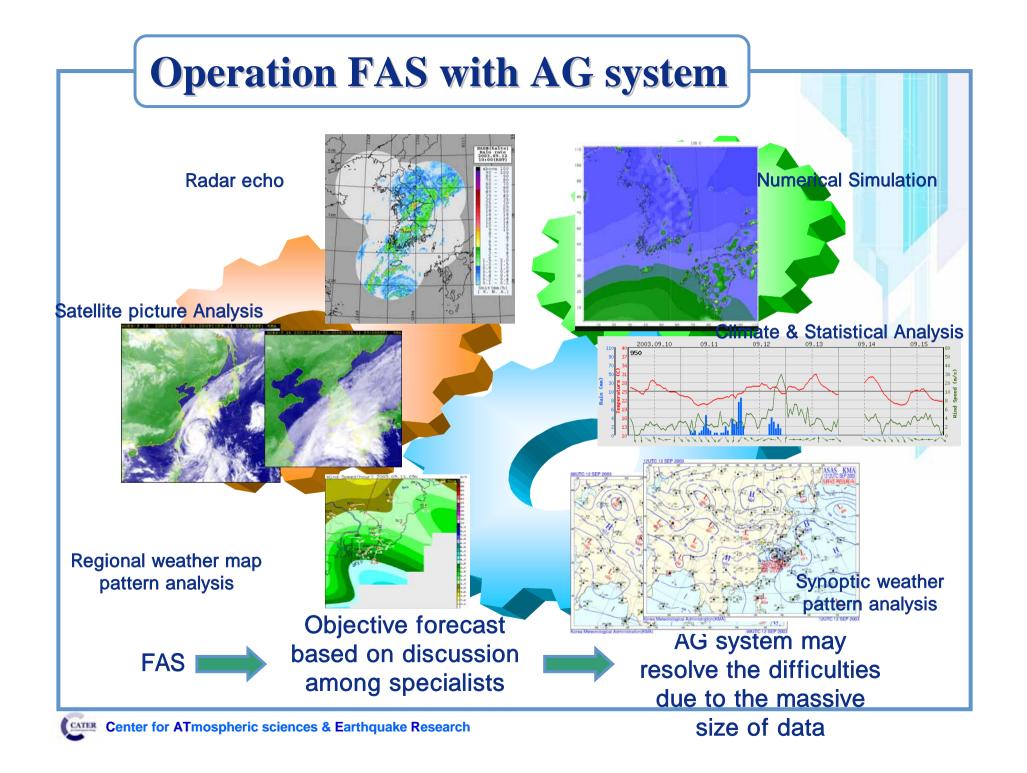
Collaborative research with AG system







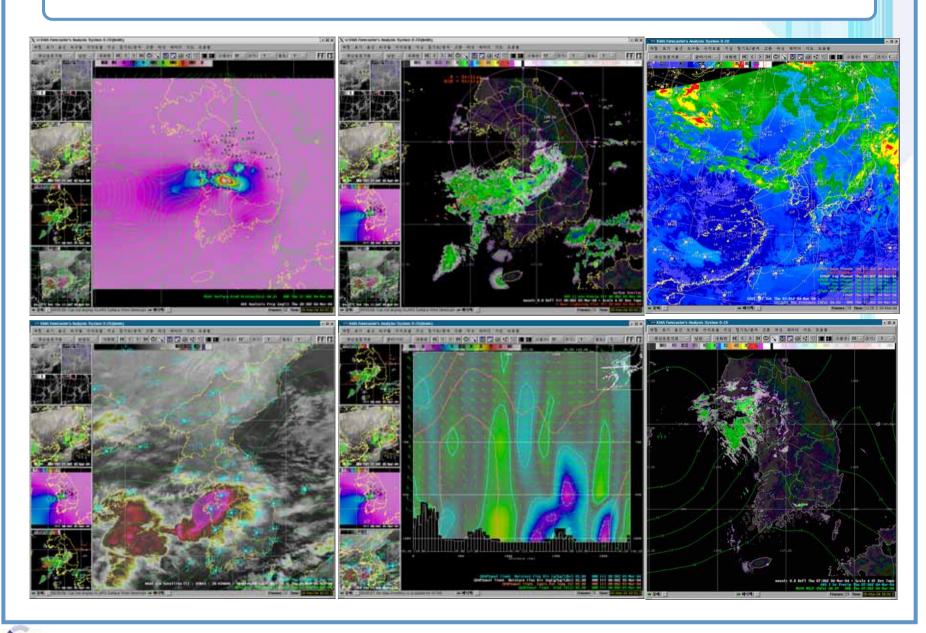




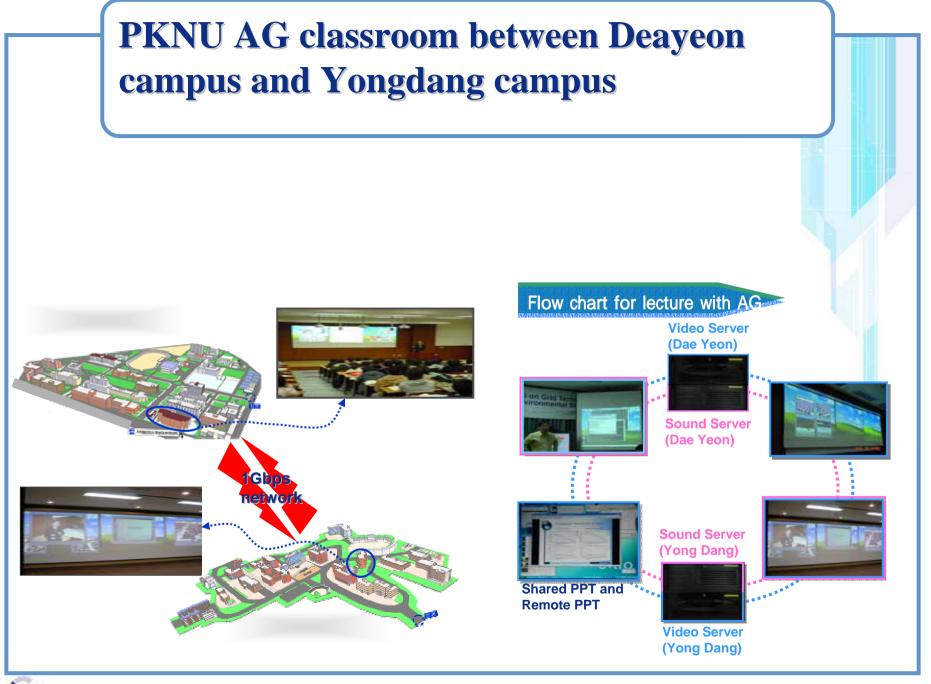




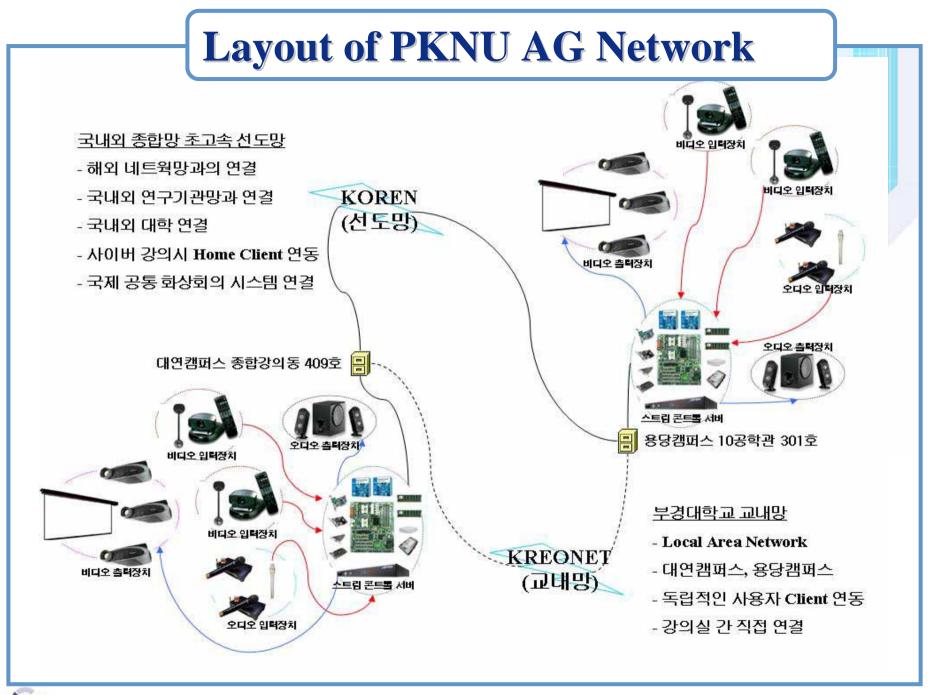
Case study of FAS Application (Heavy snowfall at Deajon , 2004. 3. 4)



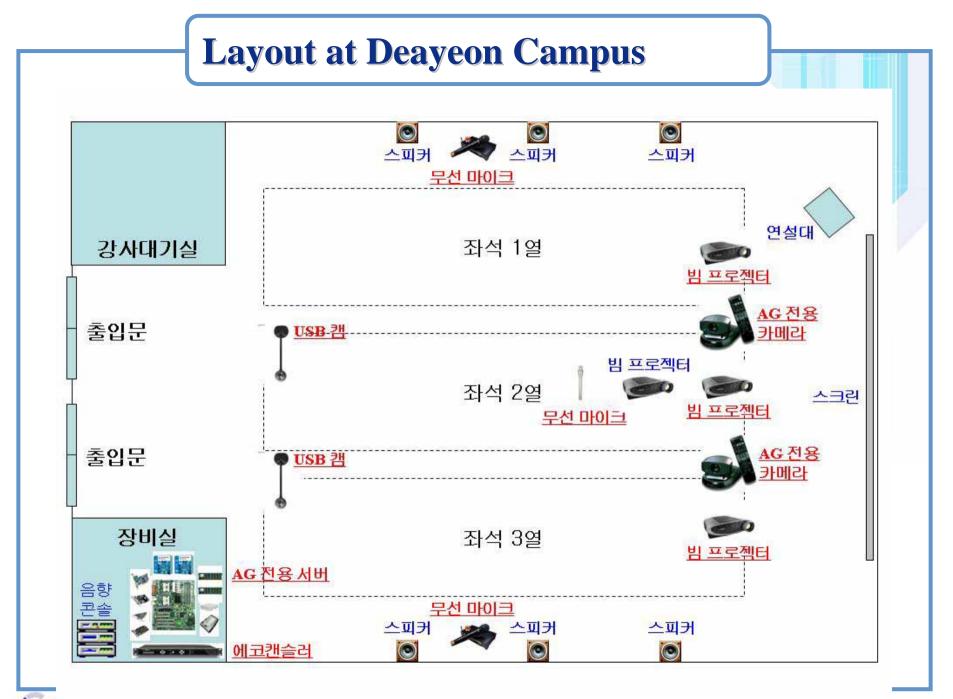
Catter Center for ATmospheric sciences & Earthquake Research



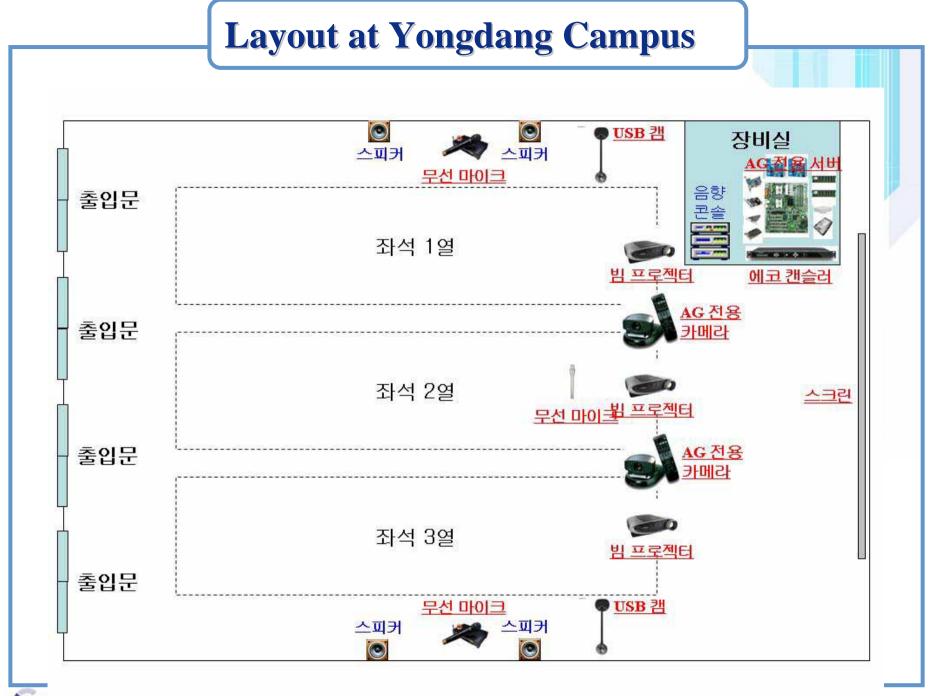








CATER Center for ATmospheric sciences & Earthquake Research



Specification of Access Grid Server

System	
Process & memory	Dual Intel Xeon 3.0 GHz /2GB DDR /40 GB SCSI HDD / Giga Bit Ethernet
Video Card	
	Quadro 4 400 2-LHU 64M, 4 dividing display
Audio Capture Card	
	SoundBlaster Live 24 bit
Video Capture Card	
	Osprey 230 PCI + Osprey 110 PCI
Speaker-Microphone	
Speaker-Mic.	SECO X-4000 VHF (Wireless MIC and Receiver)
Speaker	JBL
Echo-cancellator	XAP-400
Camera	
Analog Camera	Sony EVI-D70
USB Camera	Logitech Quickcam Sphere
Display Device	
Project	Sanyo LCD Digital X-50
LCD Monitor	Samsung SyncMaster 177X
S/W	MS WindowsXP Professional
	MS Office2003
Rack	Standard Rack Cabinet 8U + 40U Rack
Projector Screen	



System in Deayeon Campus



System in Yongdang Campus







Asian & Pacific Climate Network Meeting, 2004. 11. 9~12

Special lecture on "Head Hunting" by Samsung Group 2005. 3. 17



Korean Medical Society Annual Meeting 2005. 05. 14. Chosun Hotel (Seoul) – Medical school, PNU (Busan)



CATER Center for ATmospheric sciences & Earthquake Research

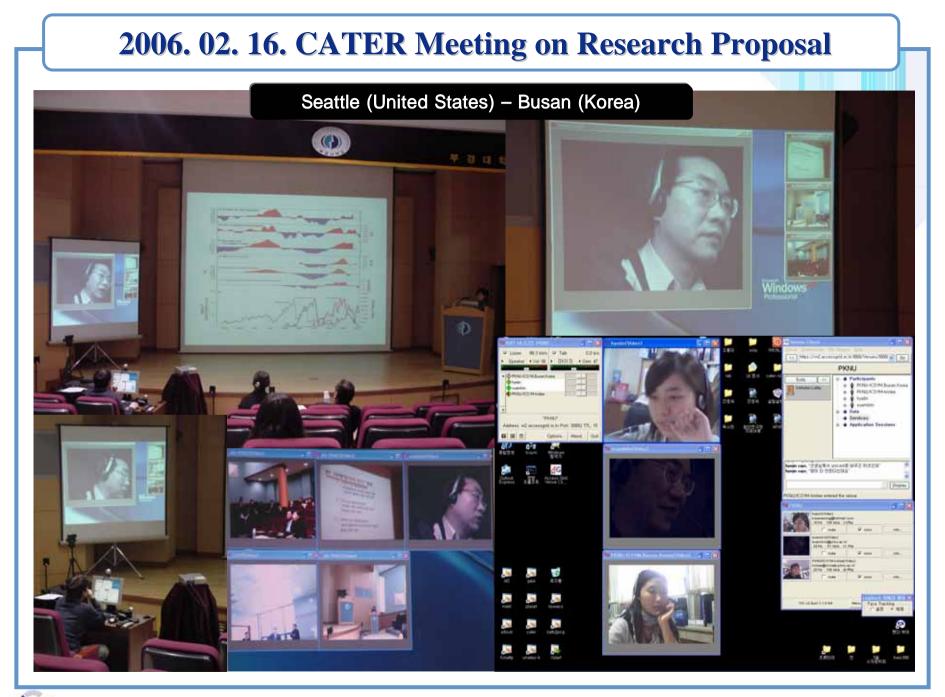
2006. 01. 22.~26. 21th APAN meeting (Tokyo)



CATER Center for ATmospheric sciences & Earthquake Research



Center for ATmospheric sciences & Earthquake Research

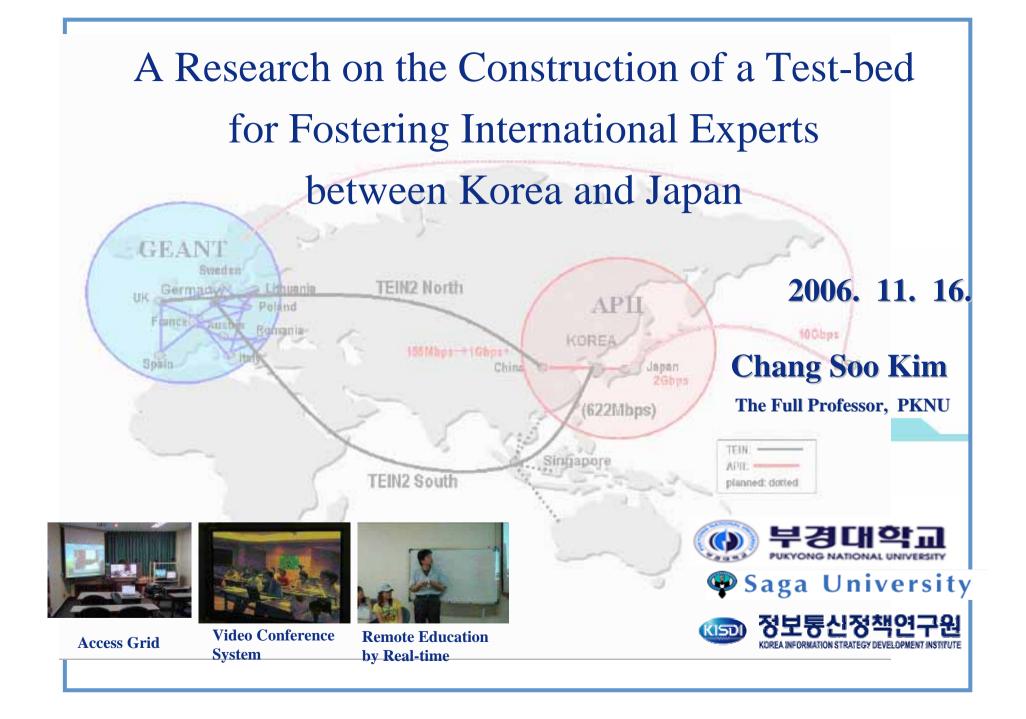




2006. 03. 30~31. Evaluation of Proposal by CATER



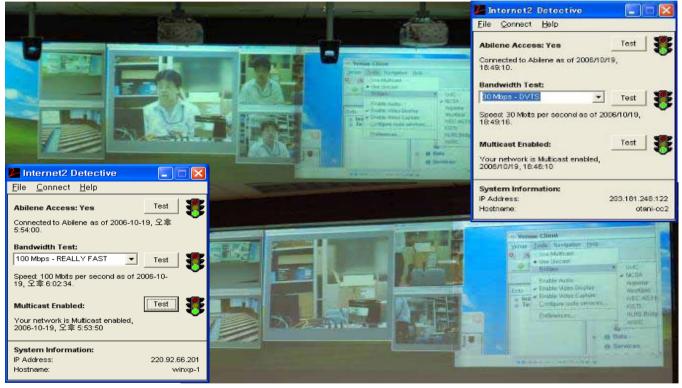




III. Implementation and Testing (Cont'd)

Remote Video Conference in Education between Korea & Japan

5th Attempt



- Date : October 19, 2006
- Room : International Conference room in 4th Building in PKNU International Conference room in Saga Univ.
- Goal : Multicast Test

12th Advanced

ANF>

III. Implementation and Testing (Cont'd)

Remote Video Conference in Educationbetween Korea & Japan

6th Attempt



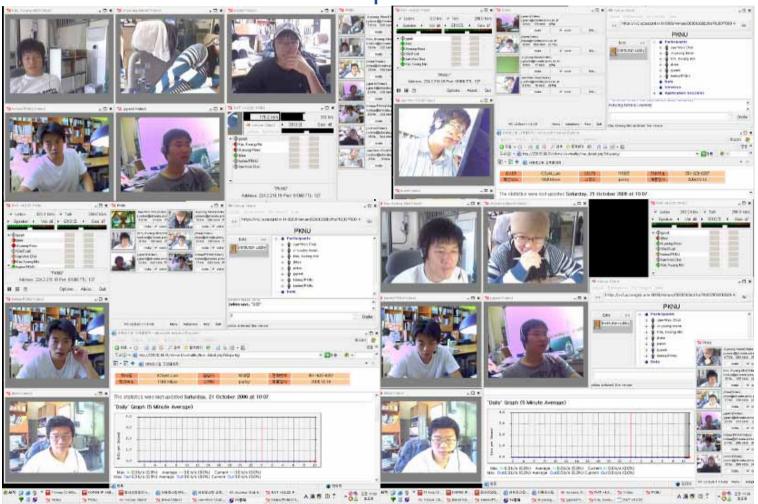
• DATE : October 23, 2006

- ROOM: International Conference room in 4th Building in PKNU
 - International Conference room in Saga Univ.
- Goal : Measuring the traffic data by MRTG

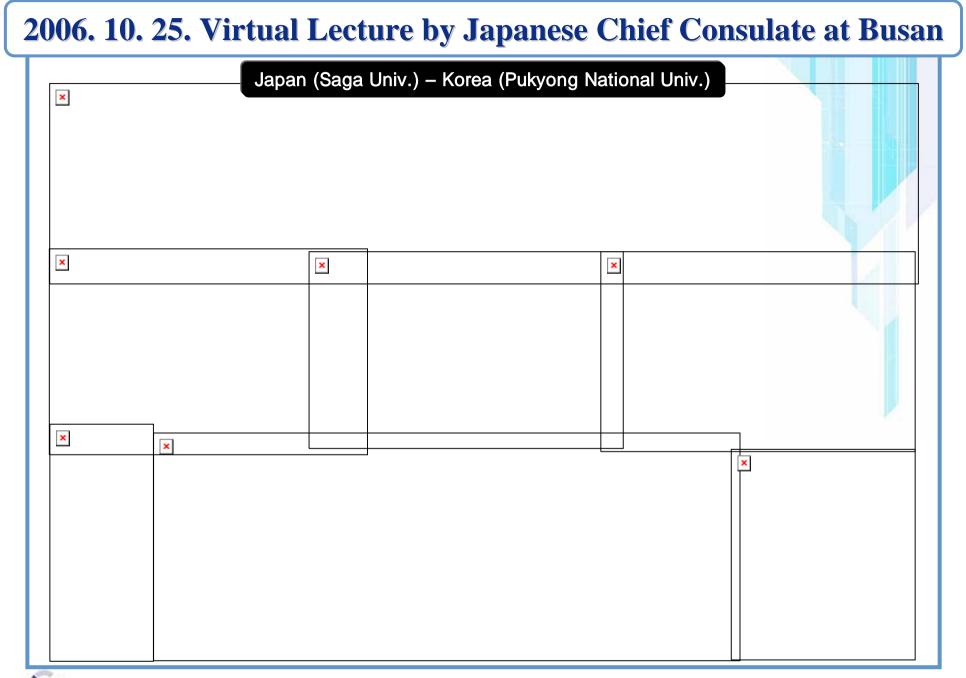
III. Implementation and Testing (Cont'd)

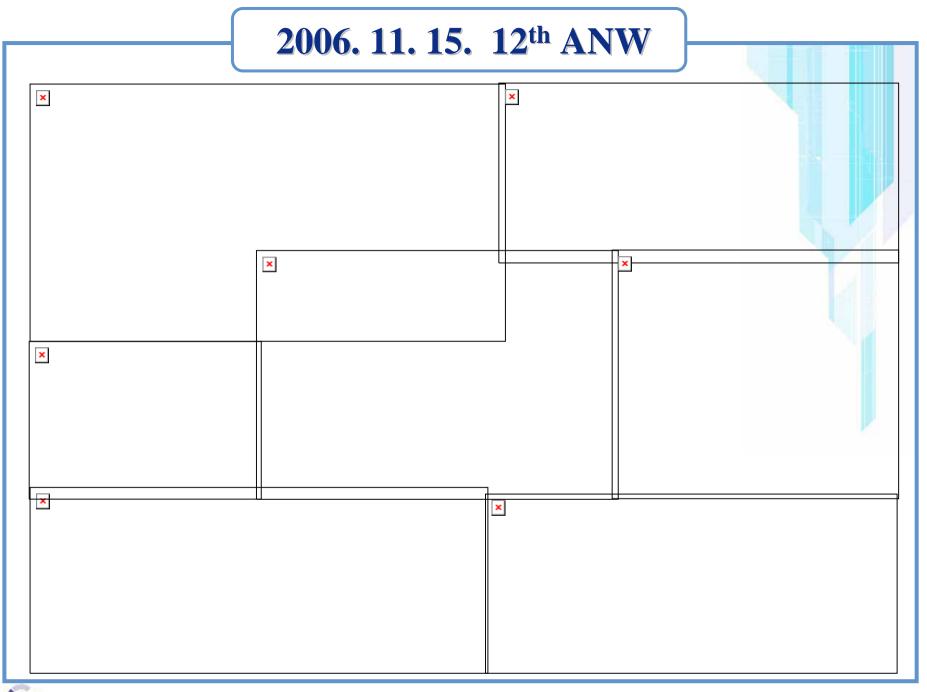
Remote Video Conference in Educationbetween Korea & Japan

7th Attempt [10/21]

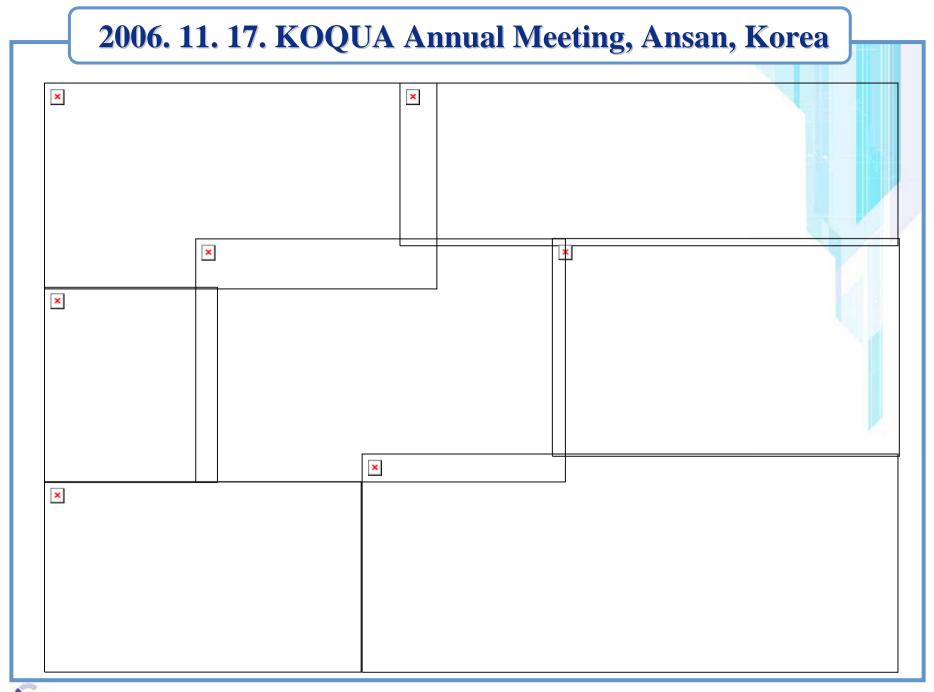


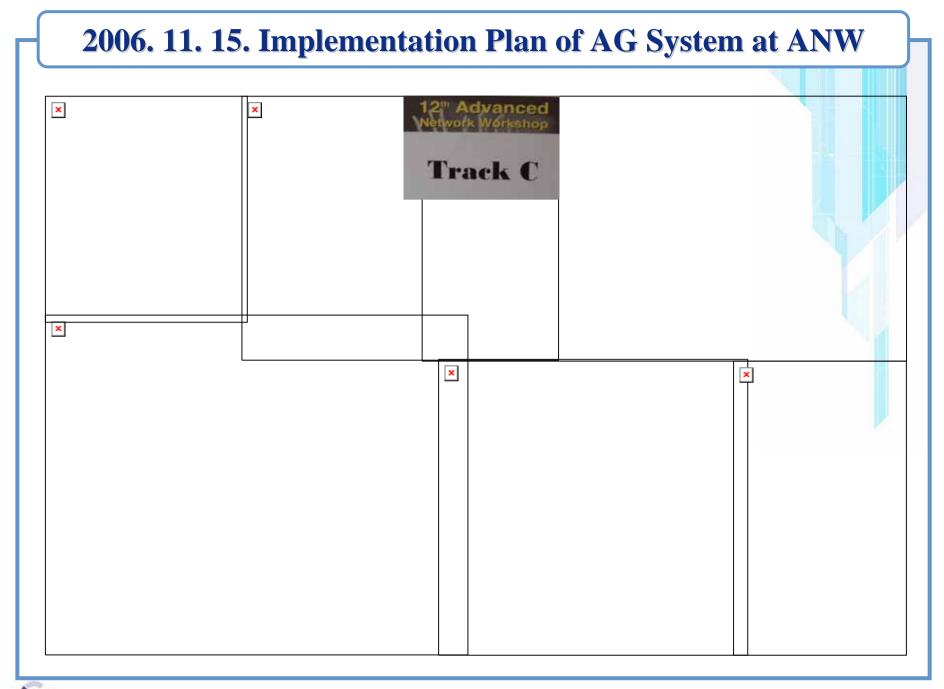












CATER's AG Application Plan

- 1. Enhancement of AG system among major univercities
 - Technical Support to open "virtual Lab"
 - Provide "Polycom"
 - Encourage presentation with the use of AG system
 - On-line evaluation of proposal & result by CATER

2. Open an ubiquitous lecture for FAS

- AG System, Web Operating System, FAS
- Committee for collaborative lecture among universities
- CATER Data Grid Portal

3. Set-up cyber-infrastructure for Earth system study

- IT Tech. to Atmospheric Sciences
- Science 2.0 environment for Atmospheric Sciences
- Set-up cyber-infra for Earth System Science

