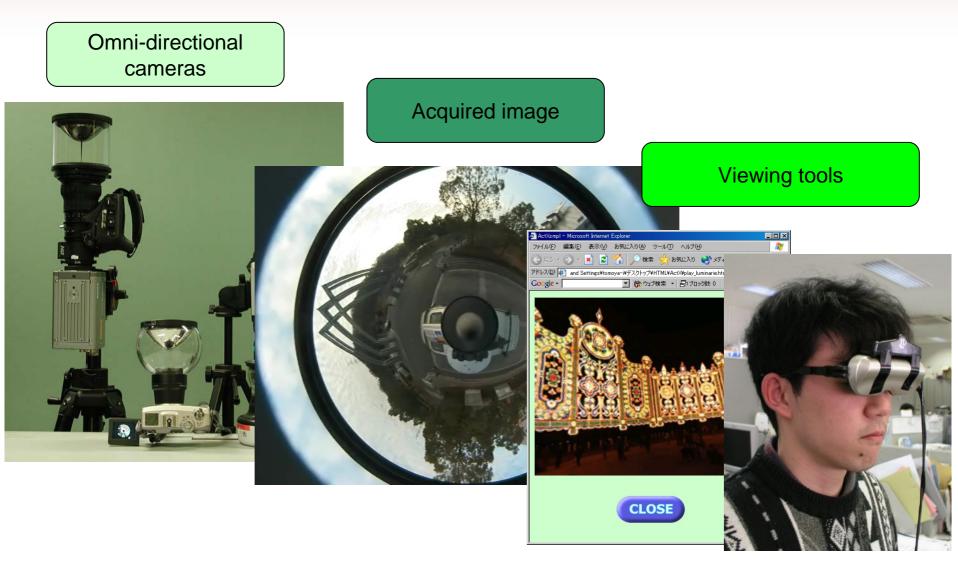
Current status of telepresence system with omni-directional cameras

Kazutoshi FUJIKAWA





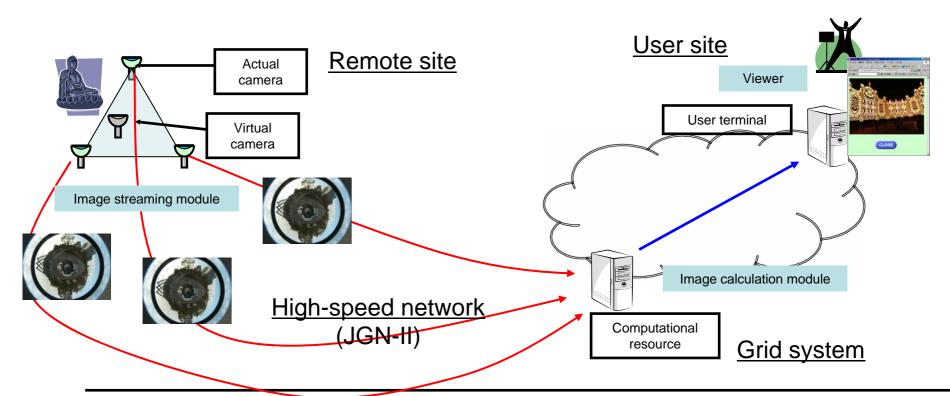
Omni-directional camera and viewers





Prototype system

- Almost same system as presented SC05
 - It consists of image streaming module, Image calculation module, and viewer.
 - Images come from one PC with mutiple omni-directional cameras.





Weakness of current system

- Three omni-directional cameras are connected to a single PC.
- The resolution of each camera is same as VGA.



Enhancement plan

- High resolution camera such as "LadyBug" will replace the current omni-diretional camera.
 - Calibration will be needed.
 - Computational resource must have GPU.
- A dynamic resource assignment mechanism has been designed.
- There is a serious problem...
 - Lack of human resources



Unsolved issues

- Synchronization mechanism among images from difference cameras
 - I need human resource too.
- Access control for omni-directional cameras
 - Prof. Date will take care!?



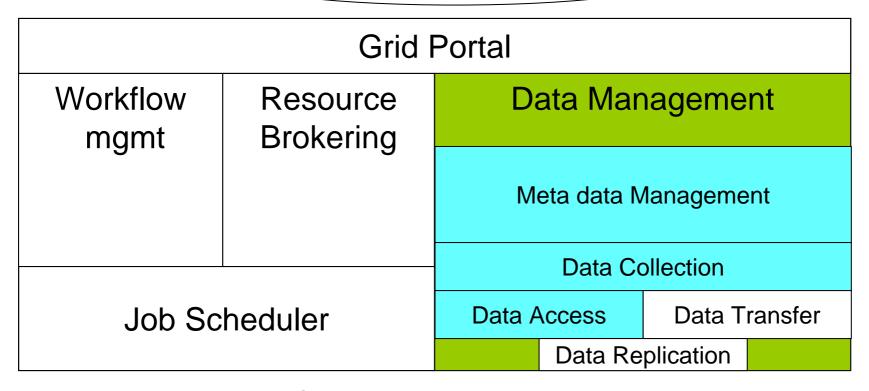
Other activity

- Data management mechanism for data generated distributedly using meta-data
 - Sensor data
 - Results of Grid computation



Architecture

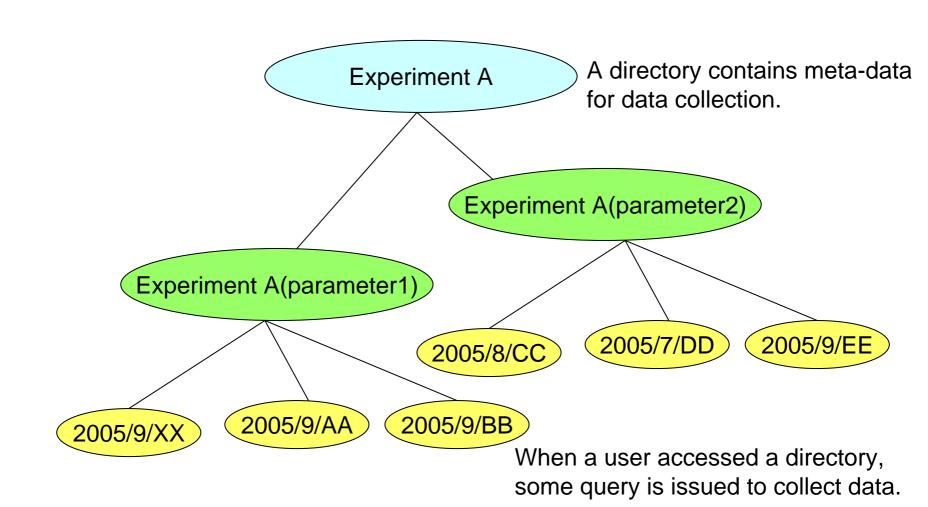
User / Application



Computational resources



Data access (1/2)





Data access (2/2)

