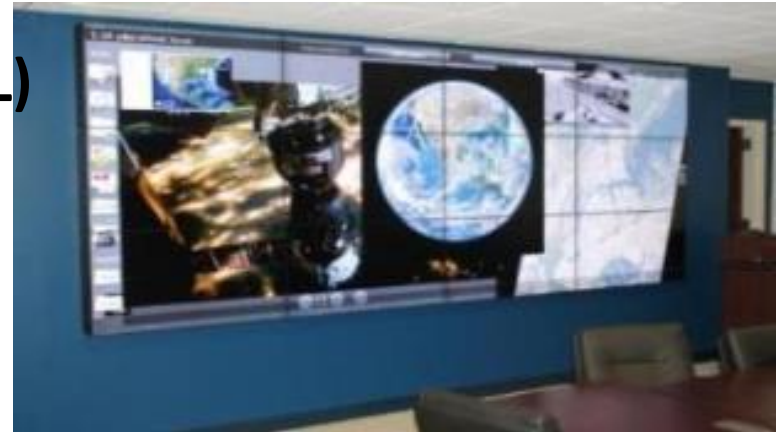


Video Wall _ More than a Projection System

Key component of the SPoRT Visualization Collaboration Lab (VCL)

- 14' x 6' video wall (not just a big display!)
- 1920 x 1080 pixels (HD) LED monitors
- thin (3 mm) bezel
- 4 x 3 array (approximately 14' x 6') with 7680 x 3240 pixels resolution



Single Dell Alienware Aurora gaming computer

- 2nd generation Intel 4.1 GHZ processor, 32 GB memory
- Two (2) - AMD FirePro W600 graphics card with 6 video ports
- Black Magic Intensity Pro video capture card for video conferencing
- Ubuntu 12.1 Linux operating system – enables collaboration software

Scalable Adaptive Graphical Environment (SAGE)

- multi-user control for interactive display of large, high resolution data sets
- supports Windows, Mac, and Linux clients for wireless desktop management and sharing
- enables collaborative interaction for scientific analysis

Video Wall as a Scientific Analysis Tool

14' x 6' Video Wall

display videos
analyze imagery
video conferencing
training
seminars
collaborator development
of software, papers, and
presentations



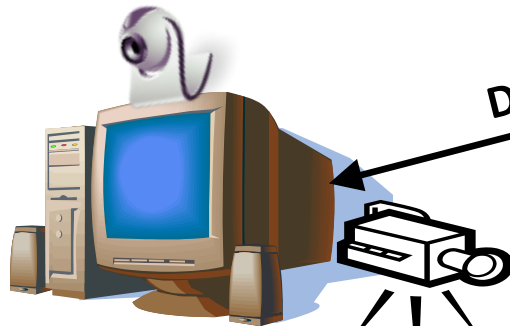
video connections to display

SAGE Server

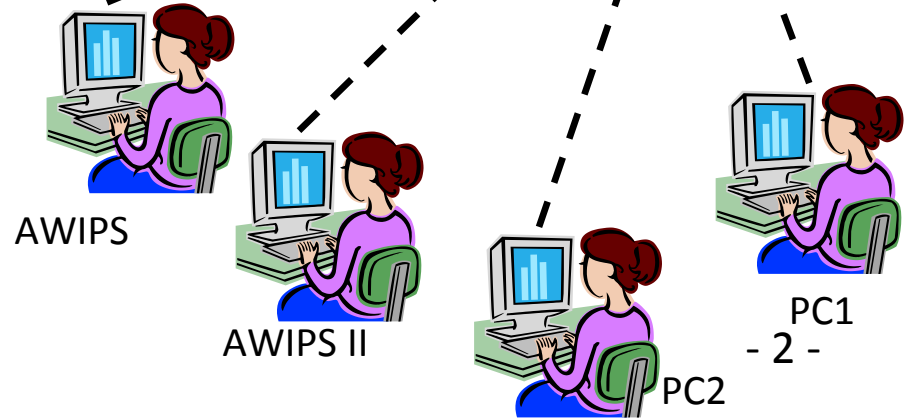


Dedicated Wired Connection

Wireless Connections



Video Conferencing PC



Video Wall Use at SPoRT

- ❑ High resolution image analysis and video presentation
- ❑ Training – in-house and via video conference
- ❑ Seminars and presentations
- ❑ Collaborative development of software, proposals, and presentations
- ❑ Video conferencing (via Vidyo and in room camera)



Future SAGE Enhancements

- UC new funding from NSF for next generation capabilities
- Vadiza obtained licensing rights for SAGE software and supports its O/M
- Limited software security features prevent broader use by NASA
- NASA/MSFC entering into a Space Act Agreement with Vadiza to enable interactive visualization of scientific results between NASA and collaborative partners meeting NASA security requirements for interoperability

NASA / MSFC / SPoRT ↔ other NASA Centers
NASA ↔ trusted partners
visitors / guests ↔ NASA