Asia Pacific Network of Collaborative Visualization Research & Education *

William Y. Chang
University of Hawaii, U.S.
Whey-Fone Tsai
National Center for
High Performance Computing, NARL, Taiwan

* The colorful slides have been kindly provided by Jason Leigh



Visualization

Vital for modern communication, research and education.

Useful for carrying out data-intensive applications.

 Valuable for researchers situated at distributed centers in Pacific Rim countries.



CyberCANOEs using SAGE2

The Cyber-enabled Collaboration Analysis Navigation and Observation Environments (CyberCANOEs)

- To display, organize, manipulate, and visualize large quantities of data
- To integrate these data using emerging computing technologies
- To facilitate movement from data to knowledge



In Hawai'i: The CyberCANOE

Cyber-enabled Collaboration Analysis Navigation & Observation Environment



CyberCANOEs in Hawai'i













A few Ultra Resolution Visualization Walls driven by SAGE2 software



UC San Diego

Argonne National Lab

Univ of Illinois

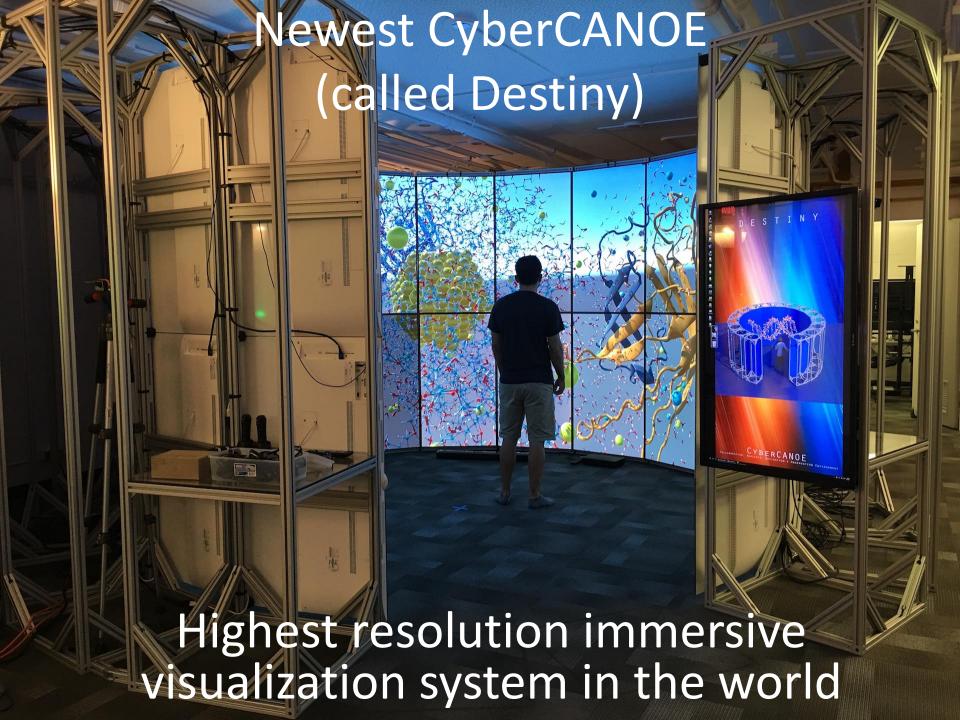


Raytheon

Masaryk Univ / Czech Republic

Osaka Univ / Japan





Advance Asia Pacific (AP) Research

 Understanding and Mitigating AP Natural Disasters

 Understanding Climate Change and the Range of Societal Responses to Social and Behavioral Issues Related to Climate Change, and

Enhancing Cultural and Artistic Presentations



On-going and Future Developments CENTRA SAGE2 Application Alliance











CENTRA (US, Japan, Taiwan)



PRAGMA (Asia Pacific)

SEAIP (South East)



SAGE2 Applications

- Functionalities
 - High-resolution display
 - 3D Display
 - Synchronized display

Application Domains

- Disaster Management
 - Typhoon, Tornado
 - Land Slides, Flood, Inundation
 - Earthquake
- Environmental Monitoring
 - Air pollution, Climate Change
 - Watershed Management, Geographical Transformation
- Art, Culture, Museum, Social ...



Success of a program requires:

- Cutting Edge New Technology
- Talents and Energy of Young
 Minds



Thank You Together, we will success

