A method of data sharing in 2007 PRIME project and a study of its integration into NAREGI data grid environment

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NCSA at the University Illinois at Urbana-Champaign

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Research Objective of PRIME 2007

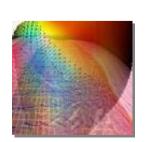
+ Big Ultimate Objective:

+ build/visualize/mathematically analyze

3D cardiomyocyte (Heart Cell) model

- --> High Resolution
- --> Finite Elements
- --> Normal & Failing Hearts
- --> Base on Realistic Anatomical Structures

Cardiac Mechanics Research Group CMRG - UCSD



NCMIR



Cybermedia Center CMC - Osaka University



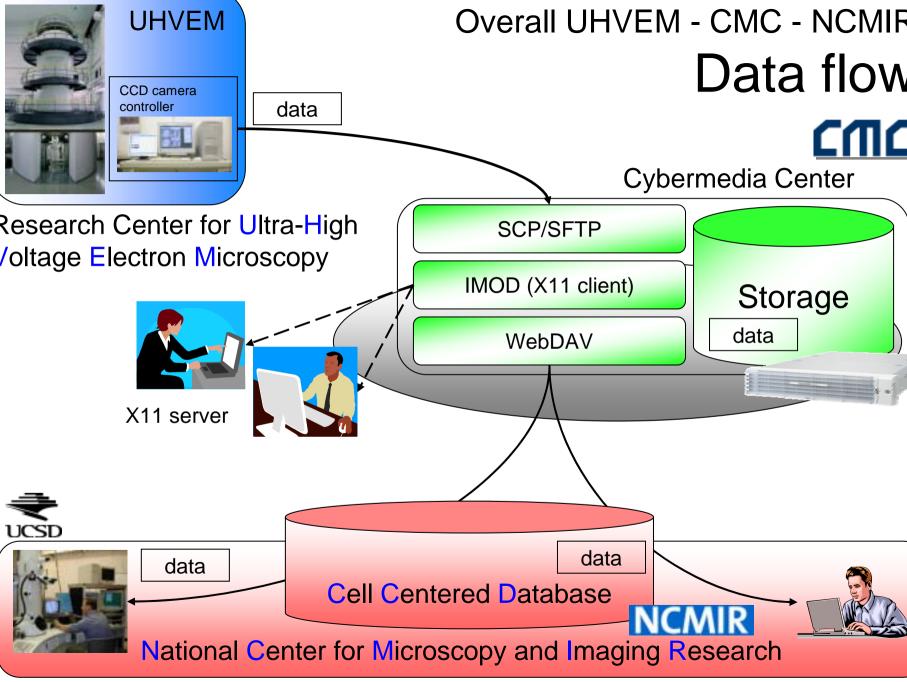
Research Center for Ultra-High Voltage Electron Microscopy UHVFM - Osaka Univ.

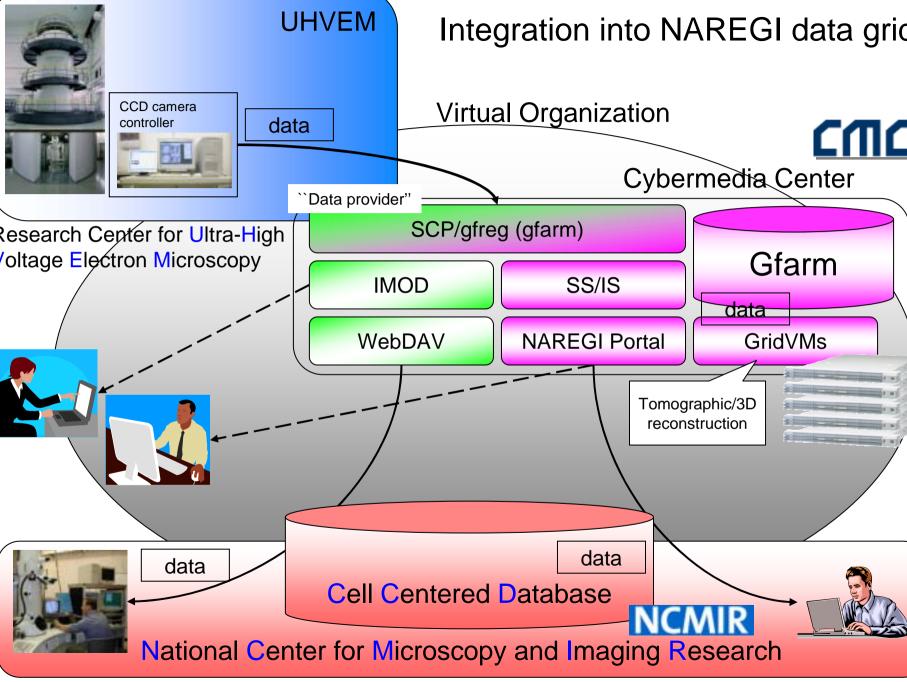
National Center for Microscopy and Imaging Research NCMIR - UCSD



What we have to do

- The goal will be achieved by integrating resources and expertise of NCMIR and CMRG at UCSD, and CMC and UHVEM at Osaka University.
- Effective and interactive data collection, data accumulation, and analyses will be facilitated by establishing a trans-Pacific cyber network that uses grid technologies based on previous efforts.





Summary and future plans

- A data sharing system was constructed at CMC.
- It will be integrated into NAREGI data grid environment.
 - Building NAREGI data grid system at CMC :-)
 - Design and implementation for automatically uploading data from UHVEM and automatically importing them into gfarm server with metadata and VO information
 - And more...