## 



JGN2 research center, Osaka YANG SHUO



## **About JGN2**

NiCT

network-related technologies

core research

NICT (National Institute of Information and Communications Technology )

expanded by



JGN 2 (Japan Gigabit Network ) is an open testbed network environment for research and development established by Japanese Government.

#### Collaboration

Industry, academia, government

#### Aim

Promoting a broad spectrum of research and development projects

#### **Centers**

seven own research centers for research and development

#### **Outline of JGN2 Network**



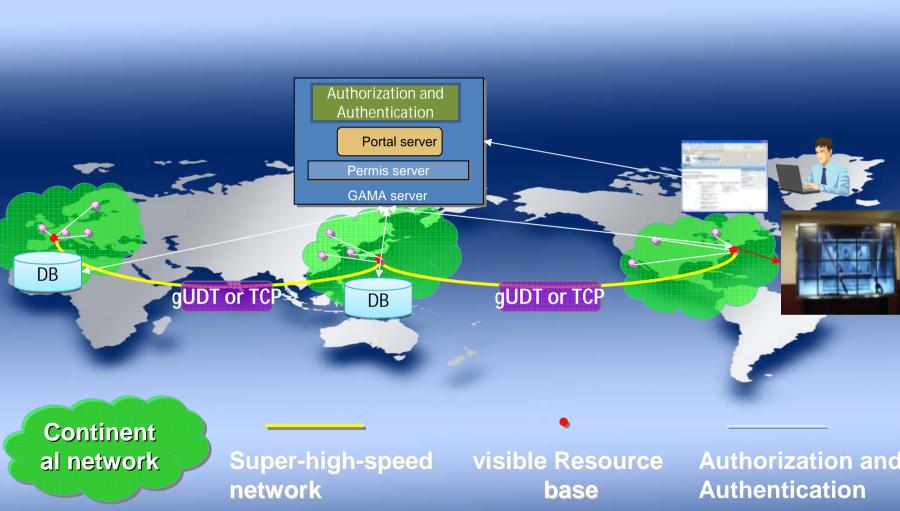
(Kami, Kochi Prefecture)

· Mie Prefectural College of Nursing (Tsu)

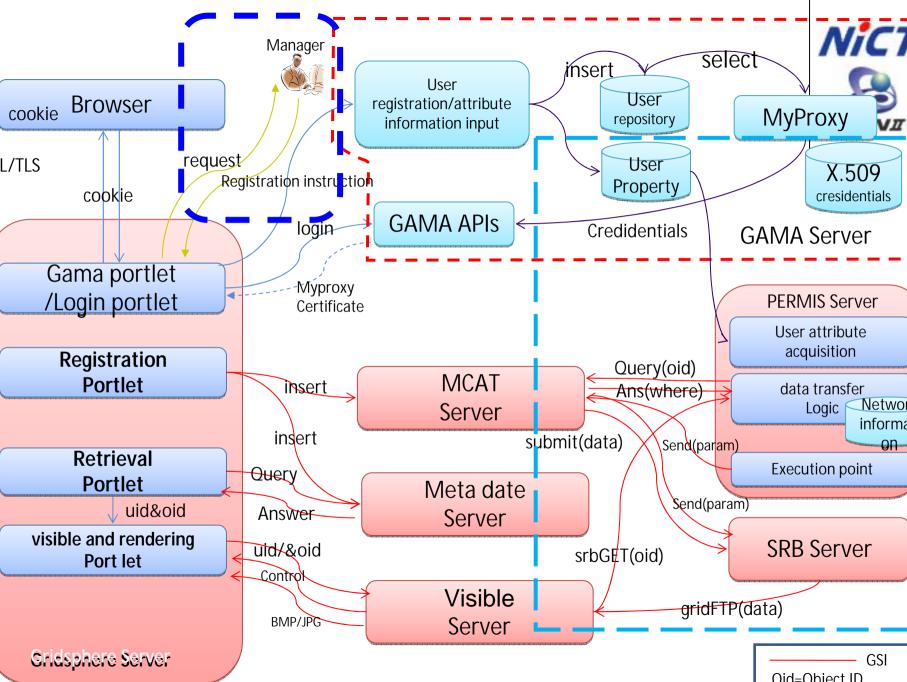
IX: Internet eXchange; AP: Access Point;

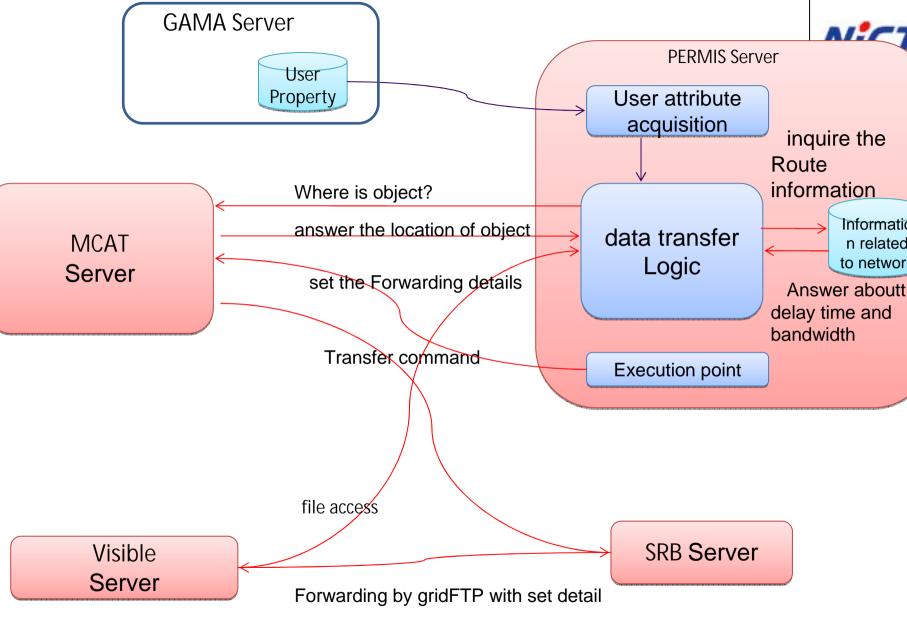
## eScience Integrative system





Middleware technology providing with visible service of eScience





# Sage vs Covise

- Sage
  - All image data goes through master node
  - Better for video
  - Master node extremely fast, tile nodes very slow
  - Cannot do 3D graphics (images video only)
  - Mouse only
  - Organized, tidy

- Covise
  - Only control data goes through master node
  - Better for images (real time manipulation of multiple images
  - High-rendering tile nodes, master node does not have to be fast
  - Better for virtual reality (can fly through and around 3D graphics)
  - All kinds of 3D tracking devices
  - Freeform expansive



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o navigation... o part manipulation... o view options... o misc...

⊙ ClipPlane...

view all reset view

o Pointer Marker

File Browser

o Volume

Browser Options

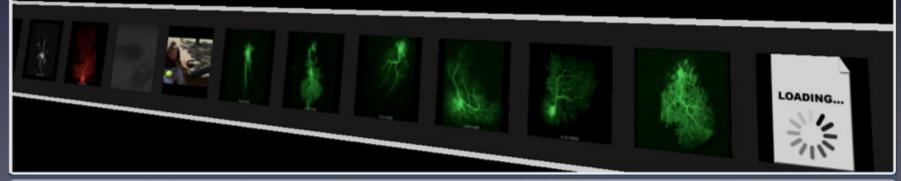
Ø Open/Close Browser

Browser Visible
Autoscroll

O Lock Browser



Set Speed





### **Plan**



Build PERMIS into GAMA, Instead of CAS

Develop the Data transfer Logic

Make a Demo in sc07