



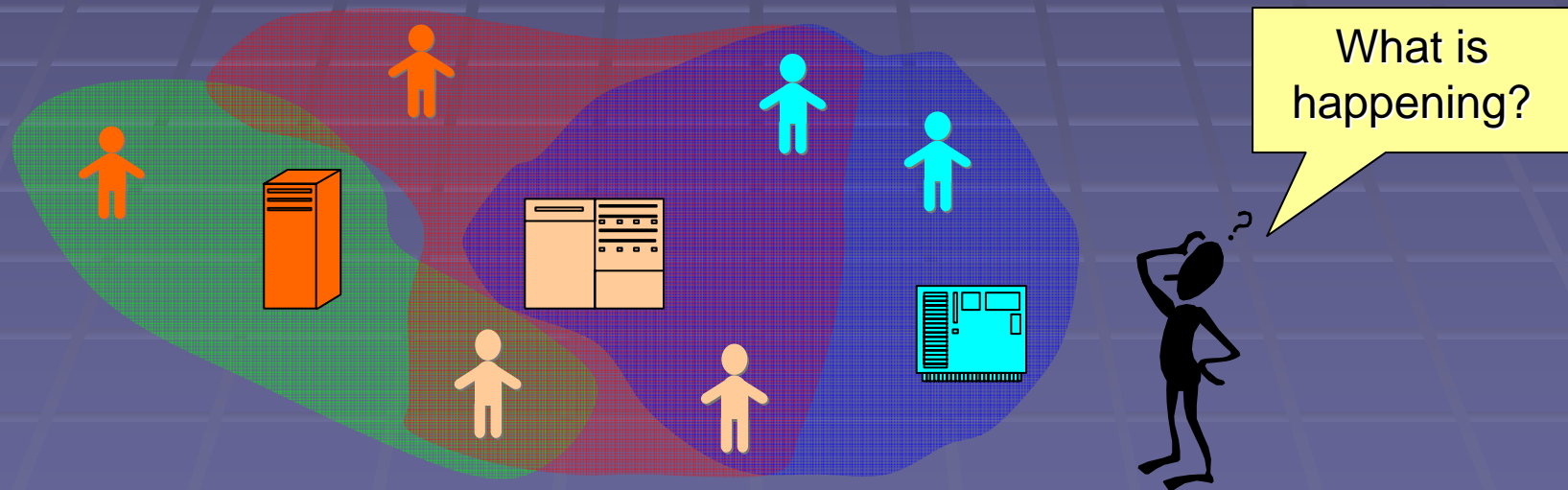
Seamless and Secure Resource Management

Shingo Takeda
JGN2 researcher

SC06

Motivation

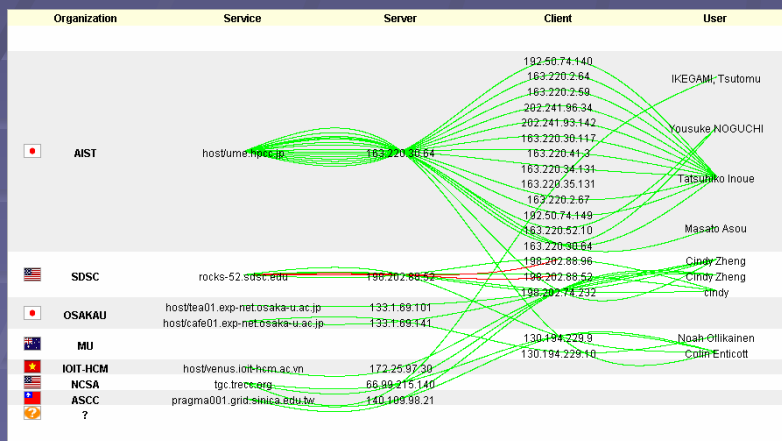
- 👉 Grid technology enables **seamless** resource sharing among organizations
- 👉 However, it is difficult for administrators to manage resources securely in complicated grid



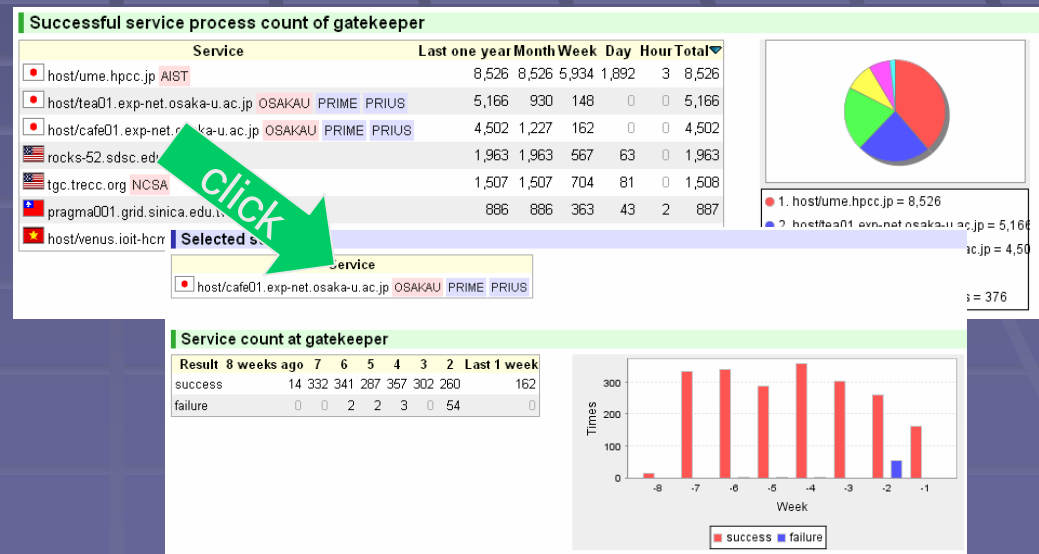
Security monitoring tools for grid is demanded

Grid Security Monitoring System

- Visualizes job information reported by grid resources distributed among organizations
- Warns abnormal events which exceed pre-defined threshold
- Helps administrators to find problems and their causes easily and quickly



Overall graph view
(Green: success, Red: failure)

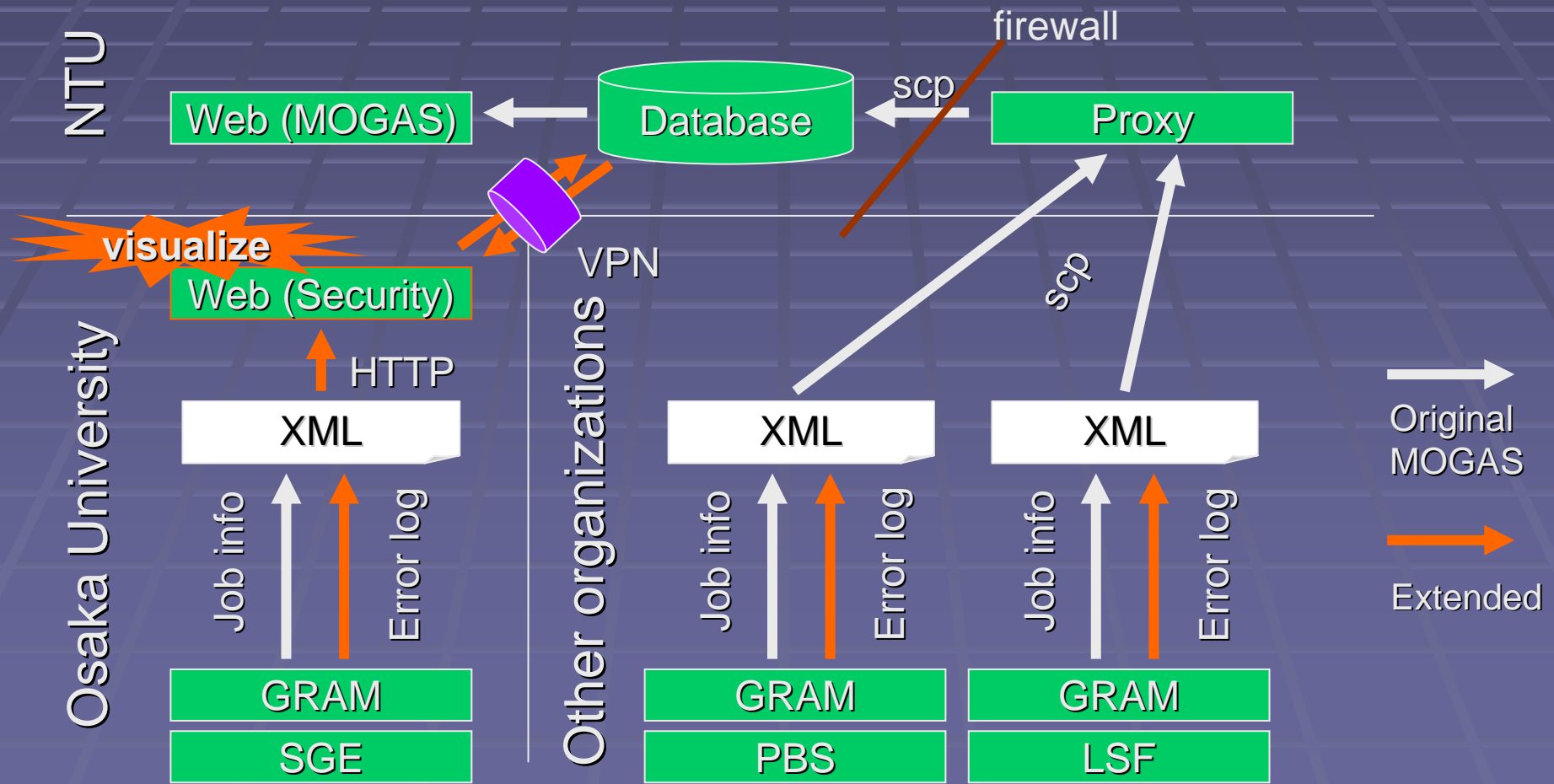


Detailed table and chart view

Mechanism

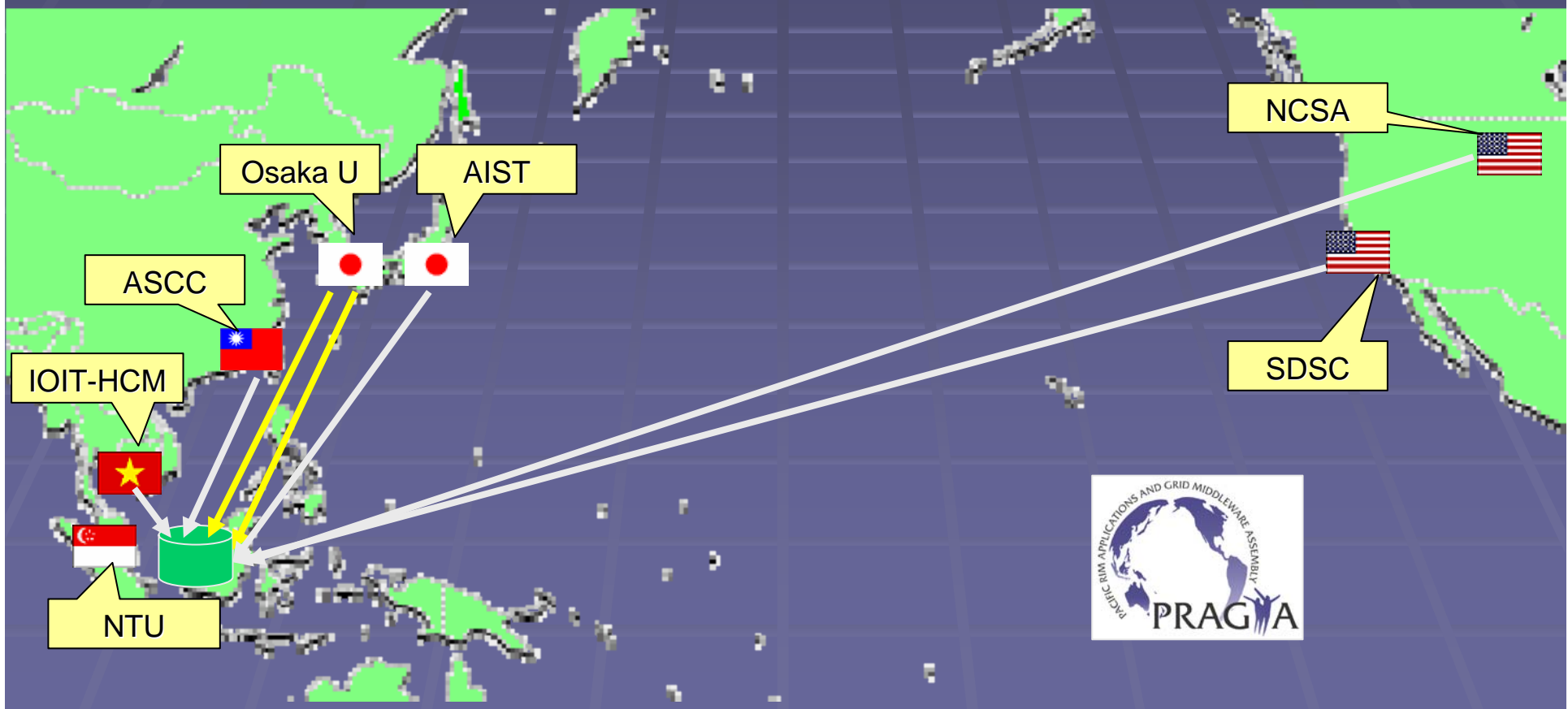
Developed at
Nanyang
Technological
University

- Extended existing accounting system MOGAS



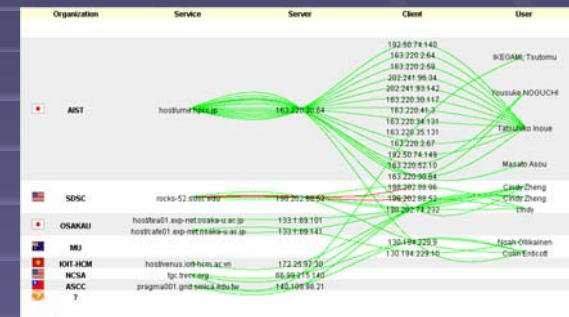
Test bed in PRAGMA grid

- ✓ Setup the script for gatekeeper on 7 servers in PRAGMA
- ✓ Setup the new update mechanism on 2 servers in Osaka U
- ✓ Setup the web interface on 1 server in Osaka U



Summary

- I developed a new security monitoring system for grid
- By extending MOGAS
 - Error log aggregation
 - New web interface for security
 - Safer and faster update
- It is deployed on PRAGMA test bed
- For more information, please ask me



Overall graph view