JKU NA3 Internal Review

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JKU background

- **JKU Background**
  - NA3 academic partner from the beginning EGEE
  - 2 Institutions for EGEE-2
  - 24 PM unfunded matching contribution
  - Had often been forgotten, having no „EU contribution“
- **General Background**
  - Doing Induction Level Trainings for Students
  - Doing Grid Programming Tutorials for Students
  - Doing g-Lite „usage“ Tutorials at conferences
- **Applications Background**
  - Development of an e-learning platform for medical gridbased software

JKU Report

- **Several Events Organized**
  - Joint CE/SEE Grid Summerschool, Budapest 2006
  - „Grid Programming“, University level voluntary course, WS06/07
  - “gLite on the EGEE-Grid”, University level voluntary course, SS07
  - “gLite/EGEE in Practice” @ ISPDC 07, Hagenberg, Austria
  - “gLite Tutorial”, lecture @ FH Dornbirn, Dornbirn, Austria, May 07

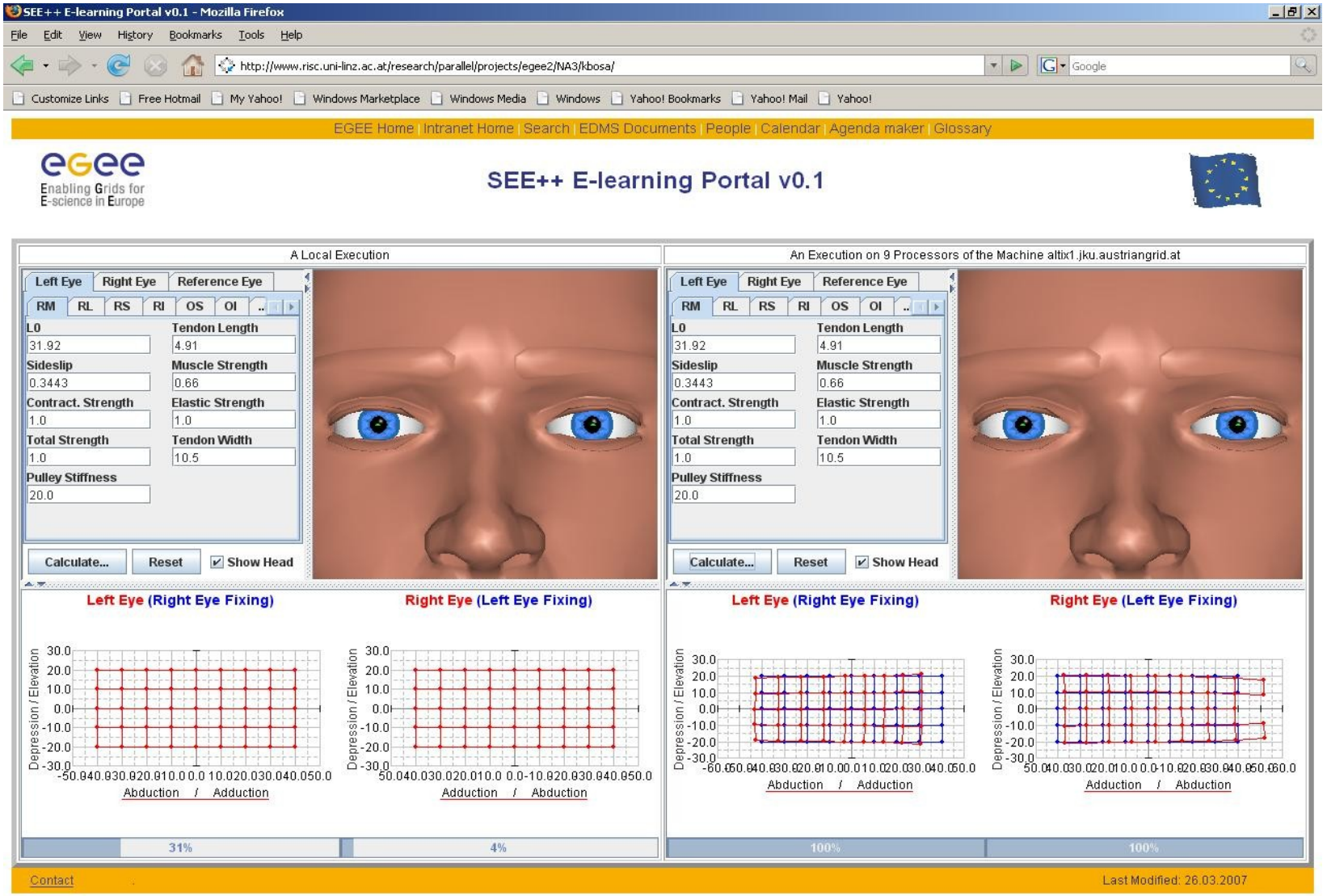
  Lectures have about 20 attendees each and bring us possible e-Scientists of tomorrow

- **Planned Events**
  - University course: Basics on Grid Computing, WS07/08
  - Upon request

Application training support

- We could see good collaboration of NA4 and NA3
- “Grid-Enabled SEE++" demo portal has been developed and is available for e-Learling
  - Allowing interaction with a local resources
  - With the SEE++2Grid Bridge running on the AustrianGrid
  - Planned extension to GILDA
- Interactive training material available
- Material and Access has been handed to ISPDC'07 participants for evaluation

Learning Portal Screenshot



Grid enabled SEE++ Portal

Grid Computing for Medicine: Grid-Enabled SEE++ - Mozilla Firefox

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http://www.risc.uni-linz.ac.at/research/parallel/projects/egee2/NA3/see++/html/

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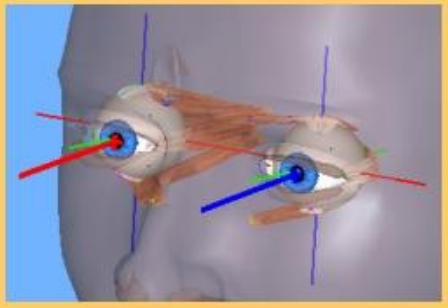
Grid Computing for Medicine: Grid-Enabled SEE++

Enabling Grids for E-sciencE

Grid-Enabled SEE++
An Interactive Tutorial on Grid Computing for Medicine



A Collaborative Activity of the
Research Institute for Symbolic Computation (RISC) and
Upper Austrian Research (UAR)

Enabling Grids for E-Science (EGEE-II)
Networking Activity 3 (NA3): User Training and Induction

(Check the system requirements)

Done

Grid enabled SEE++ Portal

Grid Computing for Medicine: Grid-Enabled SEE++ - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.risc.uni-linz.ac.at/research/parallel/projects/egee2/NA3/see++/html/i

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Virtual Eye Surgery with SEE++

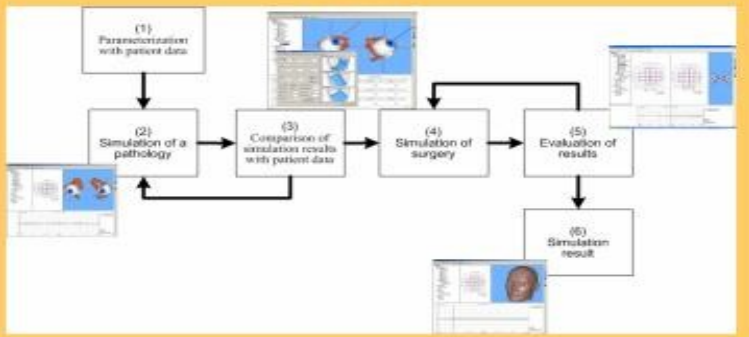
Enabling Grids for E-sciencE

Virtual Eye Surgery with SEE++

1. **Parameteriziation with patient data:** use data derived from measurements or databases.
2. **Simulation of a pathology:** calculate gaze pattern from model data.
3. **Comparison of simulation results with patient data:** compare calculated pattern with measured pattern.
4. **Simulation of surgery:** interactively modify model parameters by manipulating the muscles in a 3D model.
5. **Evaluation of results:** calculate gaze pattern from new model data.
6. **Simulation result:** store patient data and simulation results in database.

Future: automatically calculate model parameters from gaze pattern; automatically calculate surgical modifications.

(Full-size Image)



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EGEE JKU RISC UAR UAR

Done

Conclusion

- **Resources used**
  - 11.25 PM delivered until August 07
  - Travel funded by other activities budgets
  -
- **Issues**
  - Higher workforce for the last 6 months
  - Due due to personel be on leave
- **JKU workforce as a good mixture**
  - Academic training experts
  - Grid Technology experts