

gLite adoption barriers

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- **Introduction**
- **Special Focus group on gLite adoption**
- **Barriers**
- **summary**

- **Grid technology is becoming mature**
- **Industry is skeptic**
- **Relatively big gap between academy and industry**

- **Is based on previous discussions with industry representatives**
- **Is an invitation for open discussion on gLite adoption issues**
- **Is a presentation of some known problems**

- **EGEE Industry steering committee**
- **Puts together experts from different industrial fields**
- **Identifies the barriers**
- **Will publish a whitepaper with discussion/analysis of the barriers with possibly most details to enable simple implementation**
- **Disseminate already existing solutions**
- **Works with developers**

- **Two groups**
 - Non-technical
 - Technical
 - General grid issues
 - gLite middleware implementation issues

- **Complex problem**
 - Combination of non-technical and technical barriers
 - General perception of insecurity in grids
- **Issues**
 - Middleware related
 - Missing trust towards remote grid sites

- **We should think about:**
 - Security certification of the sites
 - Publication (from relevant authority) of this certification level
 - Possibility to schedule jobs on sites with required security level
 - Possibility to black list (in JDL) some sites (like site of my direct competitor)

- **software vendors do not use grid friendly licensing**
- **Grid enabled license servers**

- **Immaturity of the software**
 - Questionable, since there is an important production service already running 24/7 on ~ 40K CPUs and ~100K jobs/day
- **SLA support**
 - Job scheduling based on SLAs
- **Information system**
 - Possibility to authorize information published by site

- **Installation, configuration and maintenance currently perceived as too complex**
- **Mostly proprietary monitoring and management tools**
- **... but APIs are missing or incompatible with current industry standards**
- **No high availability/failover on some services**

- **Restricted OS support on worker nodes:**
 - Restricted linux support (currently it is improving)
 - No other unix support
 - No native windows UI and WN
- **Flexibility:**
 - Current OS support on worker nodes is not scalable
 - Usage of worker nodes running in virtual machines will enable wider OS support and lower the maintenance cost

- **There is already an important work ongoing to solve many of these issues**
- **Presented list of issues incomplete**
- **We invite you to join the discussion**
- **Any feedback is very welcome:**
 - can be sent to open discussion forum accessible from the IF web page
 - I am ready for discussions during rest of the conference