



Enabling Grids for E-science

# YAIM 4

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*EGEE conference 2007, Budapest*

[www.eu-egee.org](http://www.eu-egee.org)

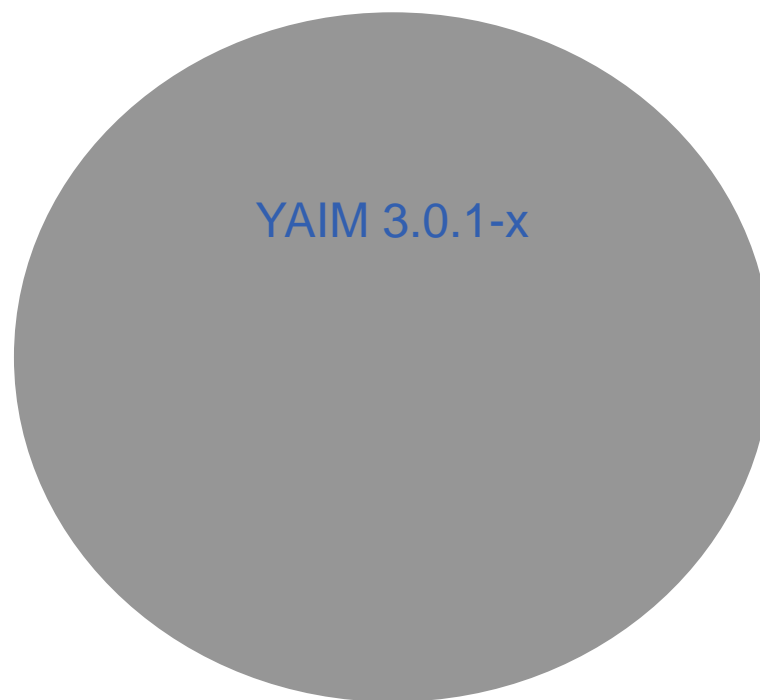


YAIM



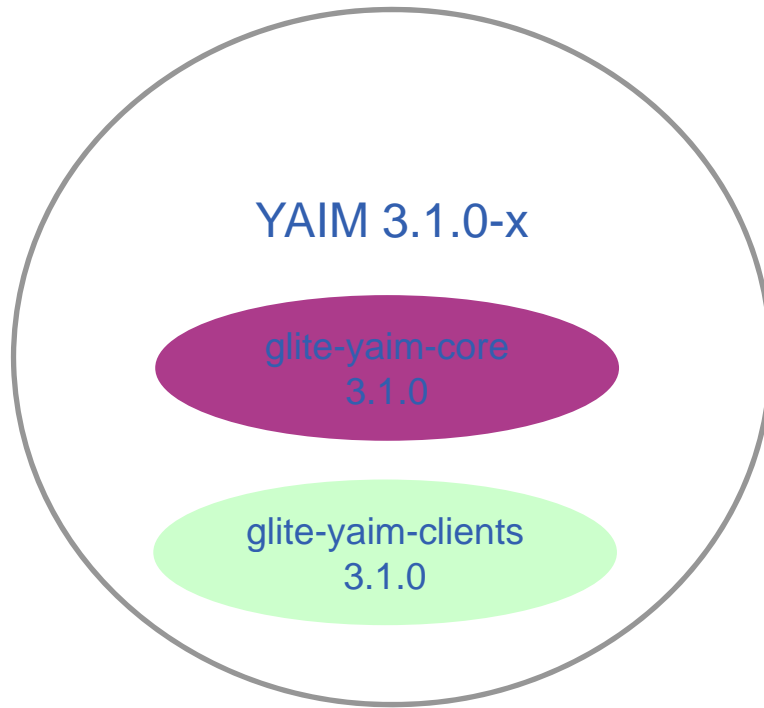
- **Evolution to YAIM 4**
- **YAIM modules**
- **What is new in YAIM**
- **Conclusions**
- **Future improvements**



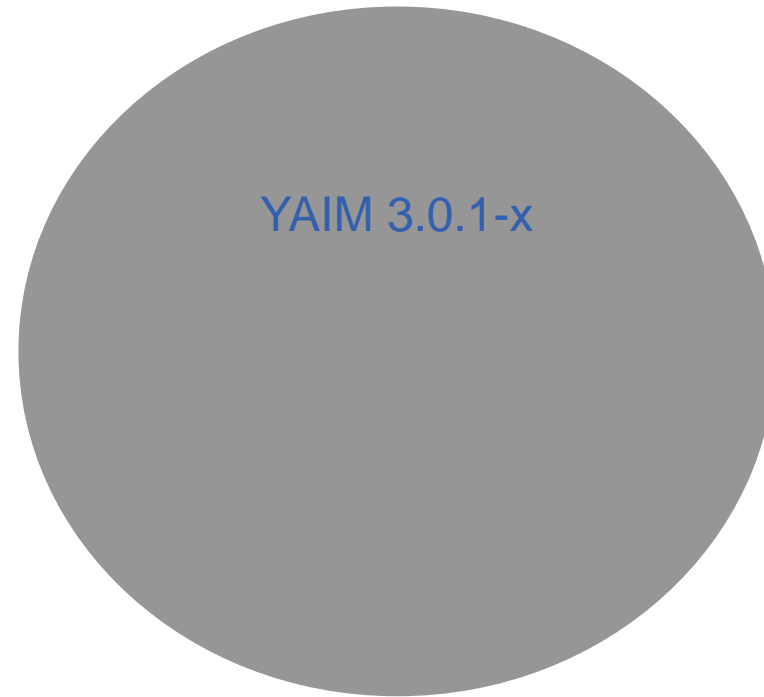


gLite 3.0



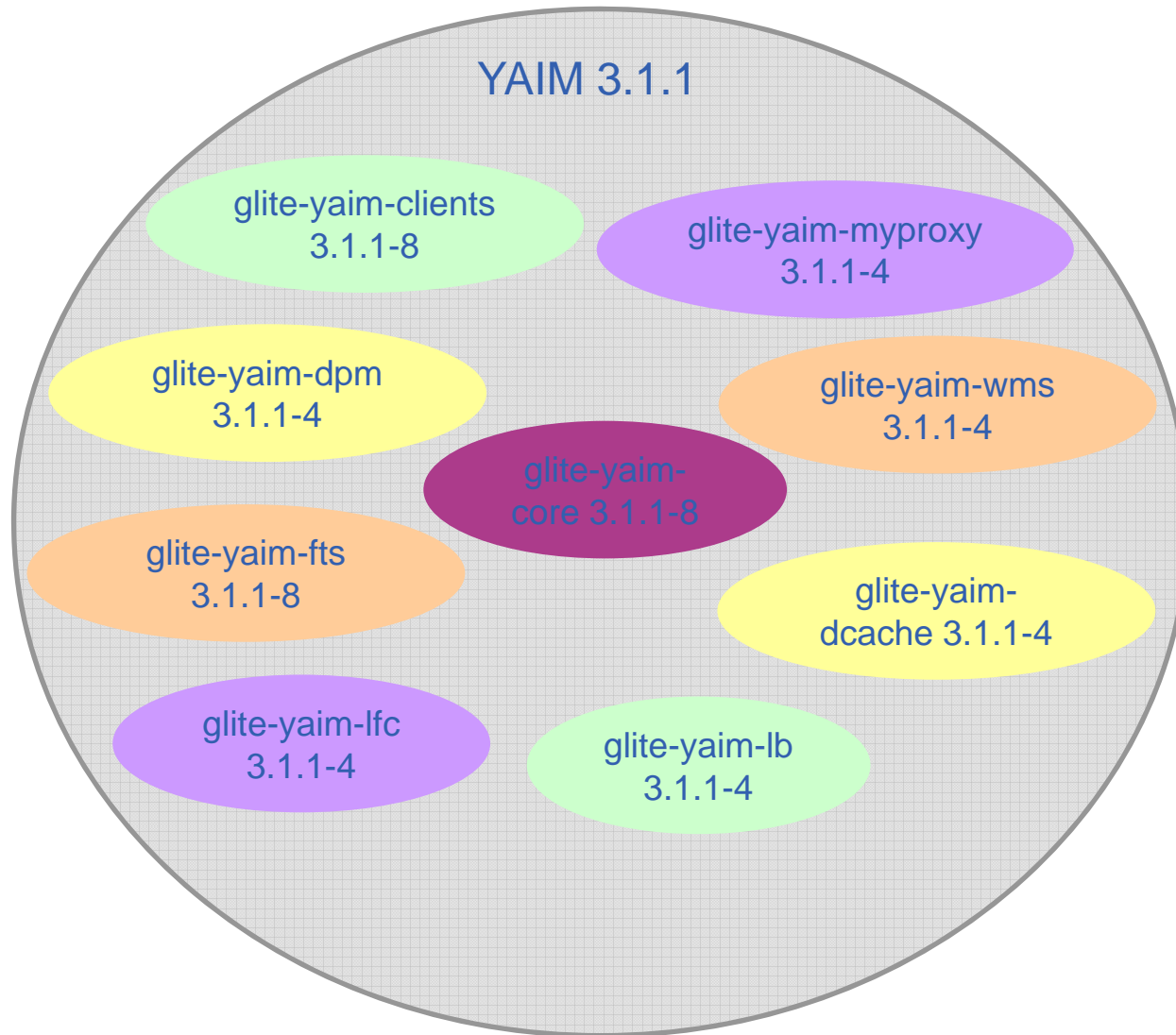


gLite 3.1



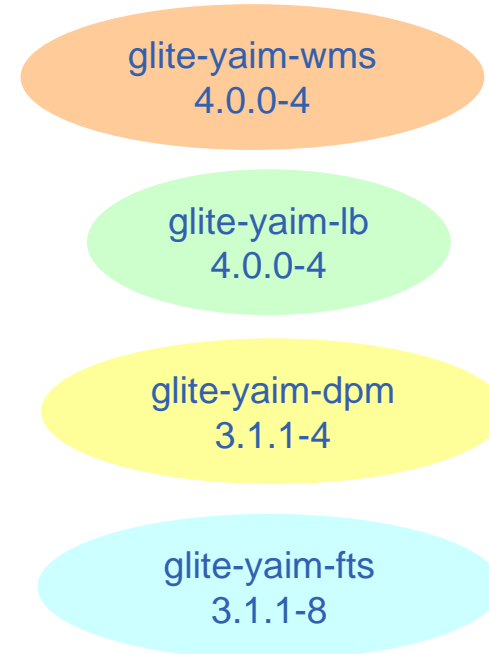
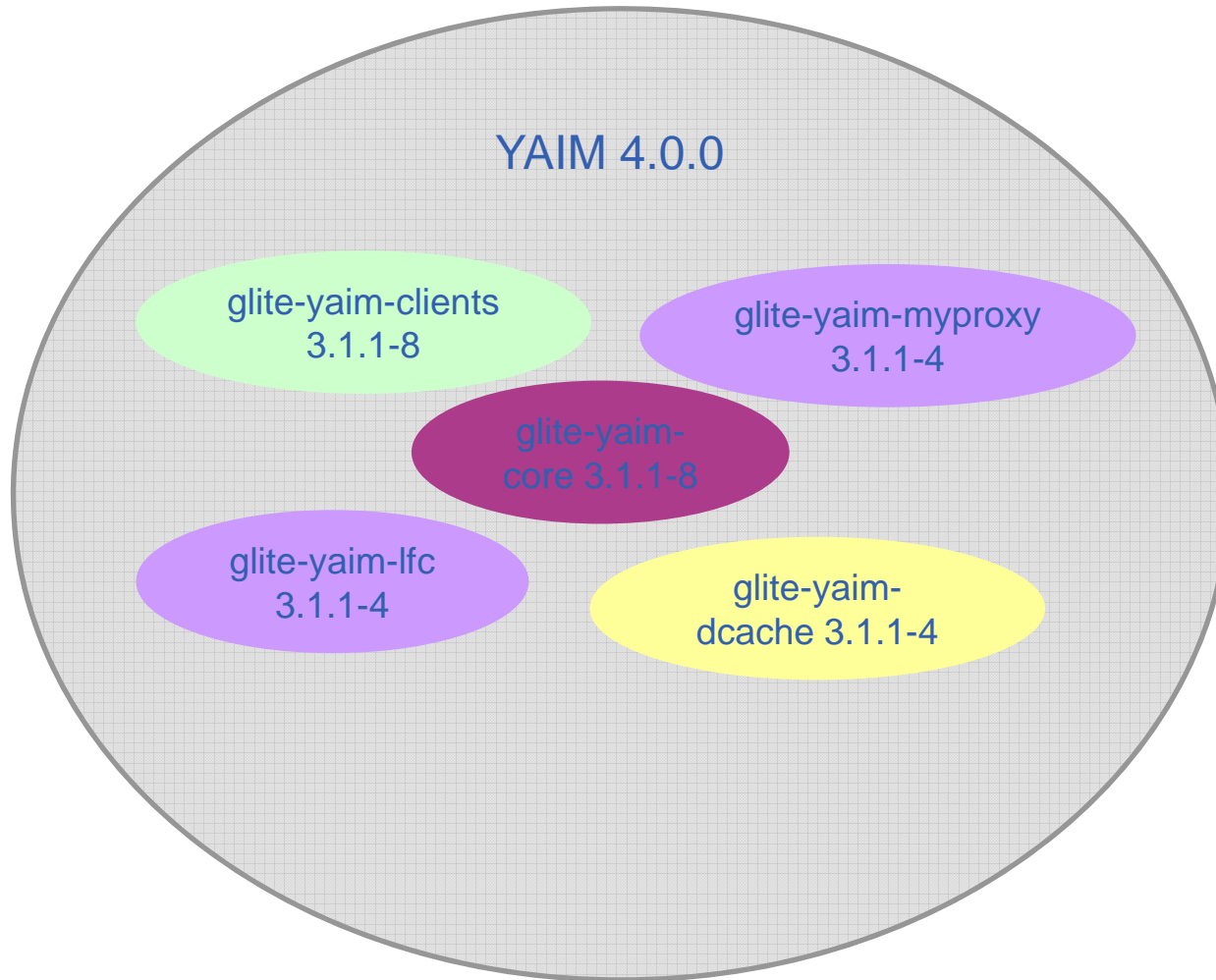
gLite 3.0





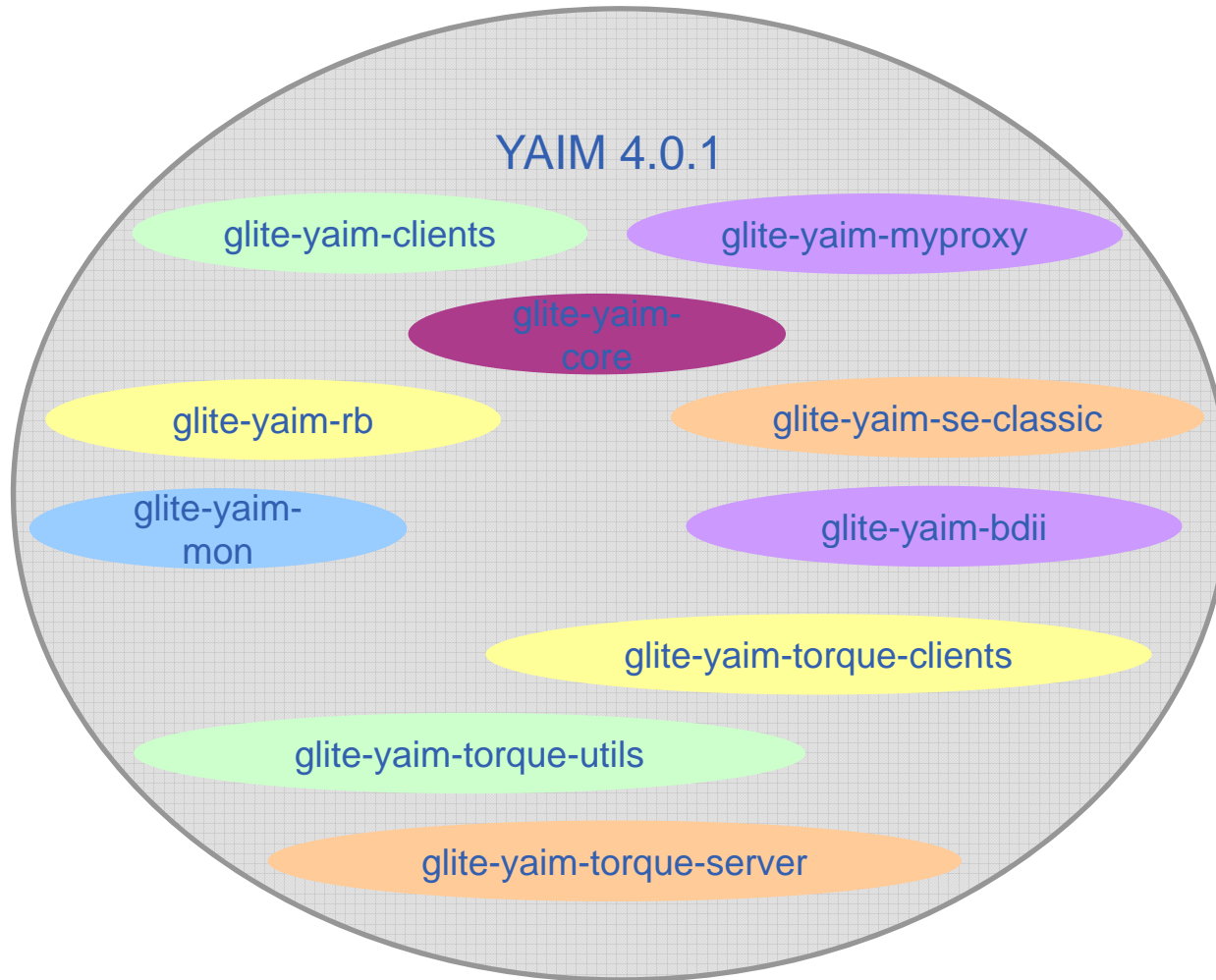
gLite 3.1 + gLite 3.0





gLite 3.1 + gLite 3.0

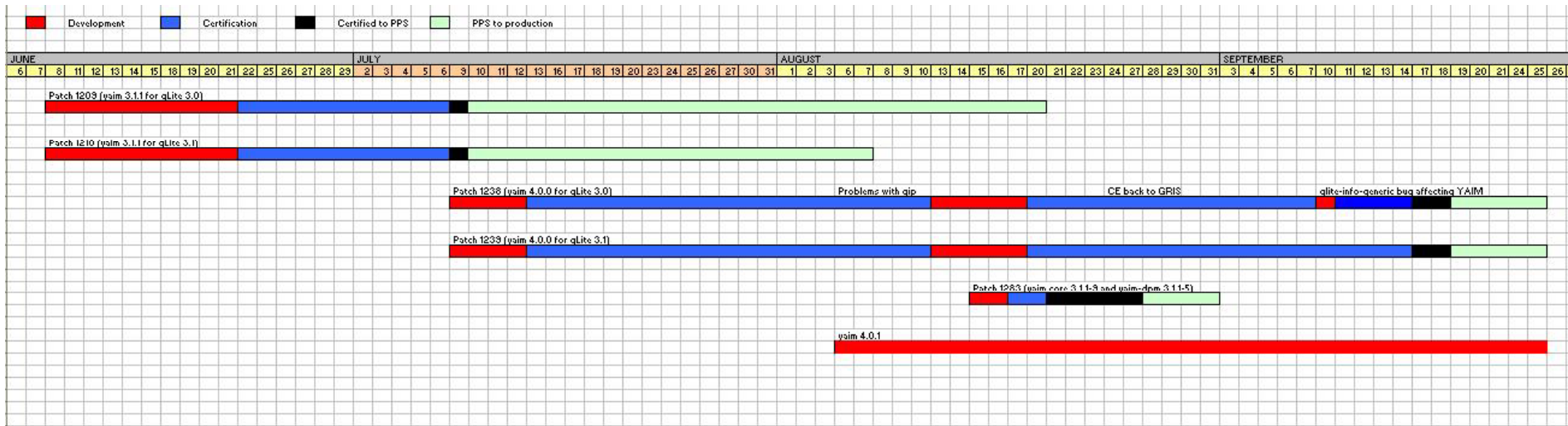




- glite-yaim-wms
- glite-yaim-lb
- glite-yaim-dpm
- glite-yaim-lfc
- glite-yaim-fts
- glite-yaim-dcache
- glite-yaim-sge
- glite-yaim-mpi
- glite-yaim-amga

gLite 3.1 + gLite 3.0







- **One yaim module per node type + yaim core**
  - Easier to involve more YAIM contributors
  - Increase level of configuration knowledge with YAIM contributors
  - YAIM certification can be done more quickly
    - Big YAIM releases take a lot of time
      - *need to be tested in all node types*
    - Can be shared among SA3 partners
    - Certification of normal (non yaim) patches is easier as 2 unrelated patches are not artificially linked by yaim.
  
- **The implementation language is once again bash**



- org.glite.yaim.core Gergely Debreczeni, Maria Alandes
- org.glite.yaim.clients Andreas Unterkicher, Elena Punchedeva, Preslav Constantinov
- org.glite.yaim.wms Di Qing, Nuno Orestes
- org.glite.yaim.lb Di Qing, Nuno Orestes
- org.glite.yaim.dpm Sophie Lemaitre, Gergely Debreczeni
- org.glite.yaim.lfc Sophie Lemaitre, Gergely Debreczeni
- org.glite.yaim.fts Gavin Mccance, Steve Traylen
- org.glite.yaim.mon Laurence Field
- org.glite.yaim.myproxy Gergely Debreczeni, Maria Alandes
- org.glite.yaim.sge-server Gonçalo Borges
- org.glite.yaim.sge-client Gonçalo Borges
- org.glite.yaim.sge-utils Gonçalo Borges
- org.glite.yaim.dcache Owen Synge
- org.glite.yaim.amga Asterios Katsifodimos
- org.glite.yaim.mpi Stephen Childs
- org.glite.yaim.torque-server Gergely Debreczeni, Maria Alandes
- org.glite.yaim.torque-clients Gergely Debreczeni, Maria Alandes
- org.glite.yaim.torque-utils Gergely Debreczeni, Maria Alandes
- org.glite.yaim.condor-utils Nuno Orestes
- org.glite.yaim.lsf-utils Nuno Orestes
- org.glite.yaim.rb Gergely Debreczeni, Maria Alandes
- org.glite.yaim.lcg-ce Di Qing, Nuno Orestes, Shu-Ting Liao
- org.glite.yaim.se-classic Gergely Debreczeni, Maria Alandes
- org.glite.yaim.bdii Laurence Field
- org.glite.yaim.e2emonit Gergely Debreczeni, Maria Alandes
- org.glite.yaim.hydra Akos Frohner



- **26 YAIM modules**
  - 10 YAIM modules developed by external contributors
  - 16 YAIM modules developed within SA3 at CERN
- **All YAIM modules will be ready in YAIM 4.0.1-x**
  - With YAIM 4.0.1-x
    - Increase the number of YAIM contributors
    - Learn from first YAIM contributors and improve communication
    - Still early to have feedback from system administrators
      - *YAIM 3.1.1 is in Production now*
      - *YAIM 4.0.0 for 3.1 is in PPS and for 3.0 about to be in PPS*
      - *Problems with 3.0 and 3.1 configurations (UI and WN)*
      - *Problems with the environment*
    - Improve YAIM core, issues affecting most node types



- **One common location for all configuration files**
  - /root/siteinfo
    - site-info.def
    - local
    - vo.d
    - hostname
    - services
- **Packaging of site-info.def configuration variables**
  - Aim at splitting it by module
  - Possibility to keep one site-info.def
- **Environment centralised in grid-env.sh**



- **YAIM wiki pages**

- <https://twiki.cern.ch/twiki/bin/view/EGEE/YAIM>

- YAIM planning page

- <https://twiki.cern.ch/twiki/bin/view/LCG/YaimPlanning>

- YAIM 4 guide

- <https://twiki.cern.ch/twiki/bin/view/LCG/YaimGuide400>

- YAIM Certification page

- <https://twiki.cern.ch/twiki/bin/view/EGEE/YAIMcertification>

- YAIM Developers guide

- <https://twiki.cern.ch/twiki/bin/view/EGEE/YaimDevelopersGuide>

- **YAIM Logo**

- We wanted to associate a logo with YAIM
- We organised a contest with many proposals submitted
- After public election, the winner is the Yak!
- Shaving the yak



- Thanks to David O'Callaghan from Dublin

- **Five months to release modular YAIM 4**
- **one yaim module per node type containing 3.0 and 3.1 configuration**
- **Need active involvement of external contributors**
- **Improve communication with external contributors**
- **Continue maintaining documentation**
  - for yaim contributors
  - for system administrators
- **Gather feedback from system administrators to improve YAIM 4**



- **Improvement of yaim core in the future**
  - Decouple node type specific configuration, specially configuration variables in site-info.def
  - Current approaches affecting most node types (user configuration)
  - Relationship with system administrators
    - Big sites
    - Small sites
- **How to address configuration of 64bit and 32bit of the same component?**
- **Requests: how to receive feedback and give priorities?**

