

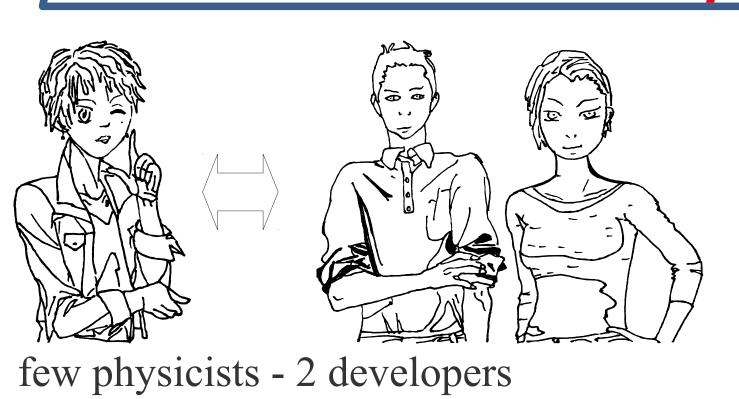
CHEP Okinawa, Apr. 13-17th 2015

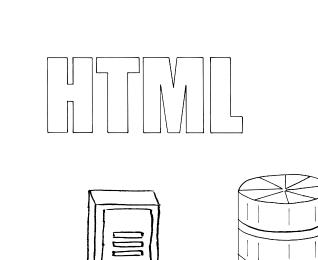
Evolution of the ATLAS Metadata Interface (AMI)



AMI¹ is a mature framework; over the years, the number of users and functions provided have increased. It has been necessary to adapt both software and hardware infrastructure in a seamless way so that the Quality of Service remains high.

2000 - 2002: Bookkeeping (search for real and simulated datasets)

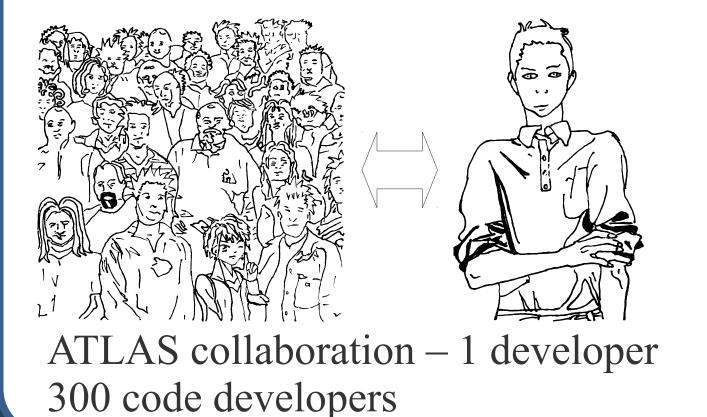


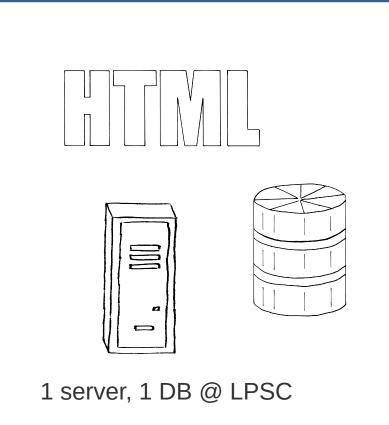


Technologies:

- MySQL
- Apache
- PHPHTML
- 1 server, 1 DB @ LPSC

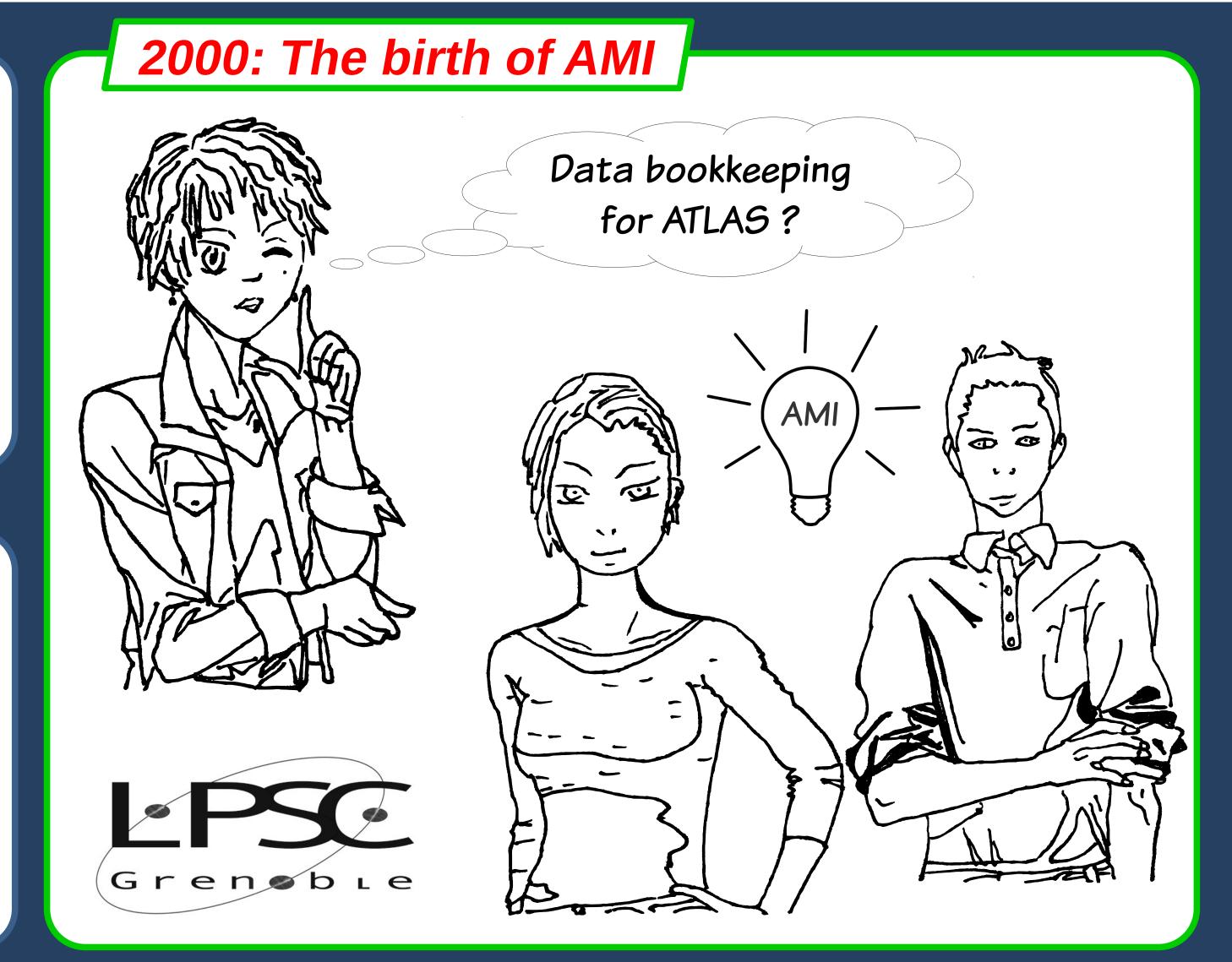
2000 - 2002: TagCollector I (ATLAS software release management)





Technologies:

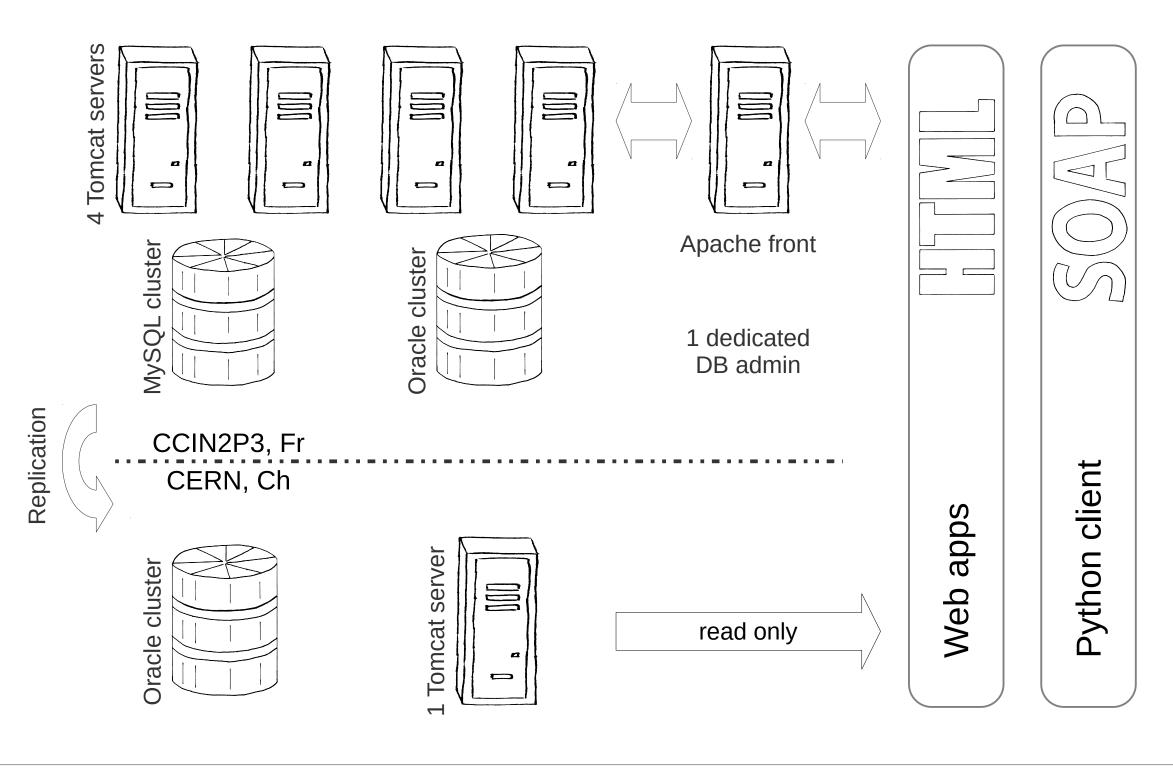
- MySQL
- Apache
- PHP
- HTML



2002 - 2013: Growth

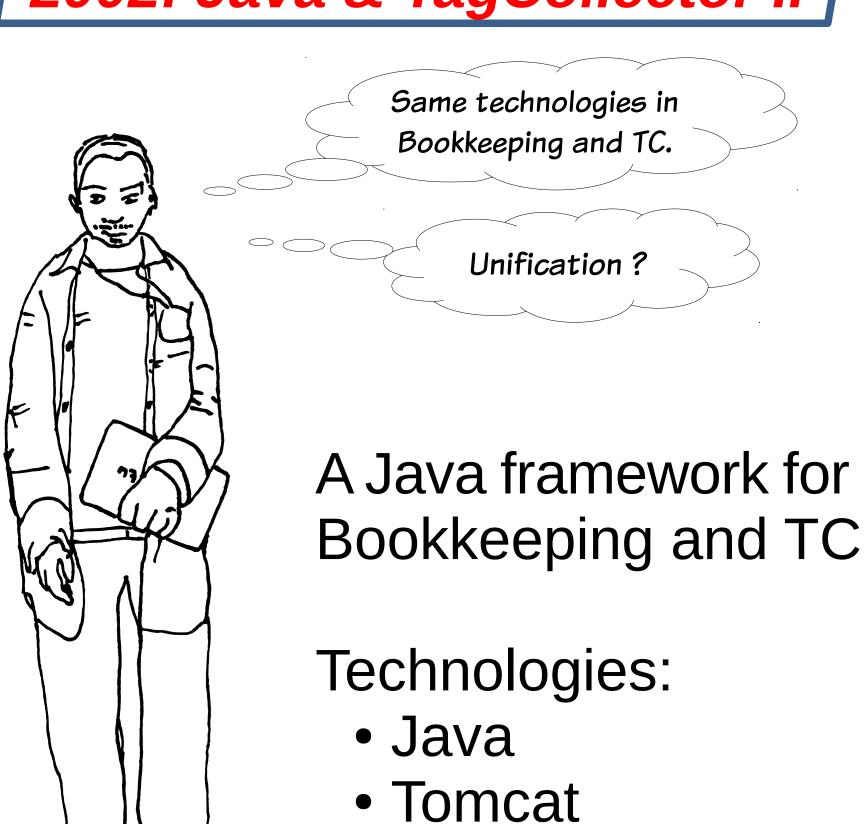


- ATLAS collaboration:
 - 3000 physicists
 - 600 code developers



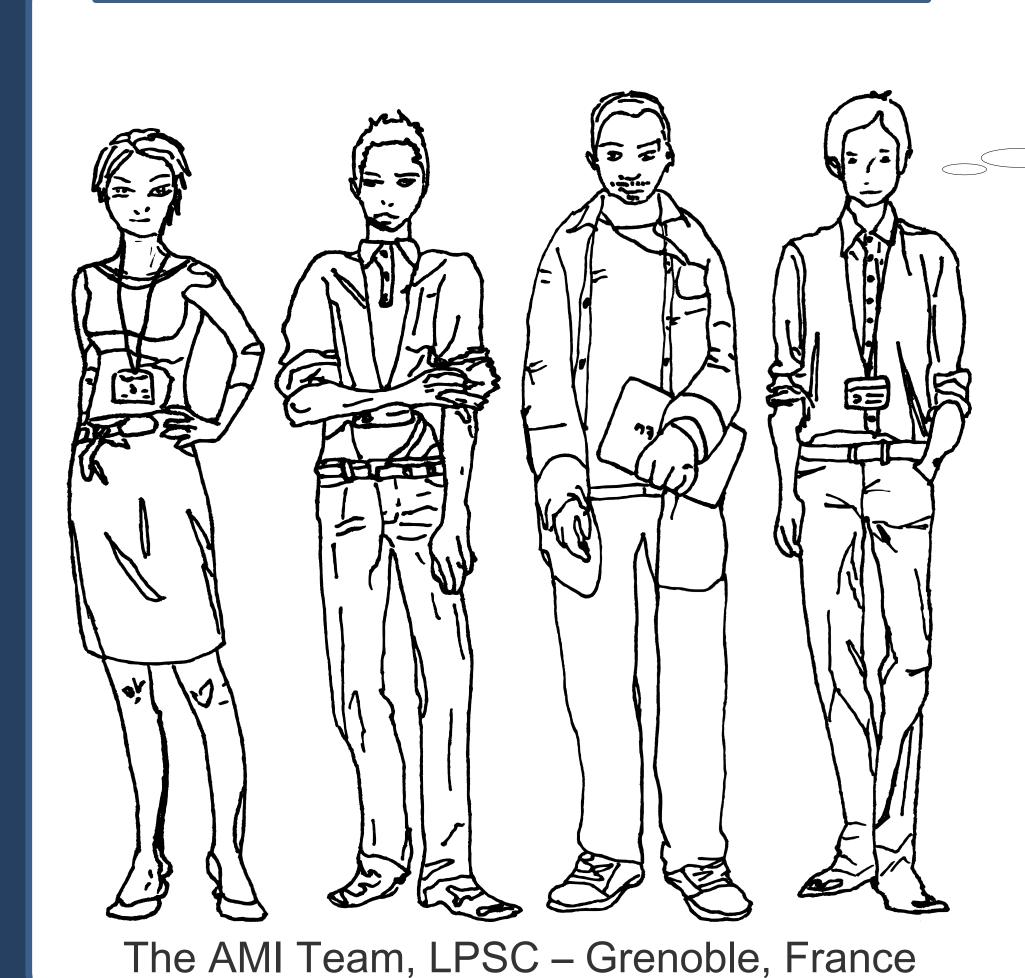
"... we recommend that AMI is deployed as the primary physicist interface to the metadata and dataset selection catalog." ATLAS software management, April 2006.

2002: Java & TagCollector II



- SOAP
- XSLT & HTML

2013 – 2015: Improvements

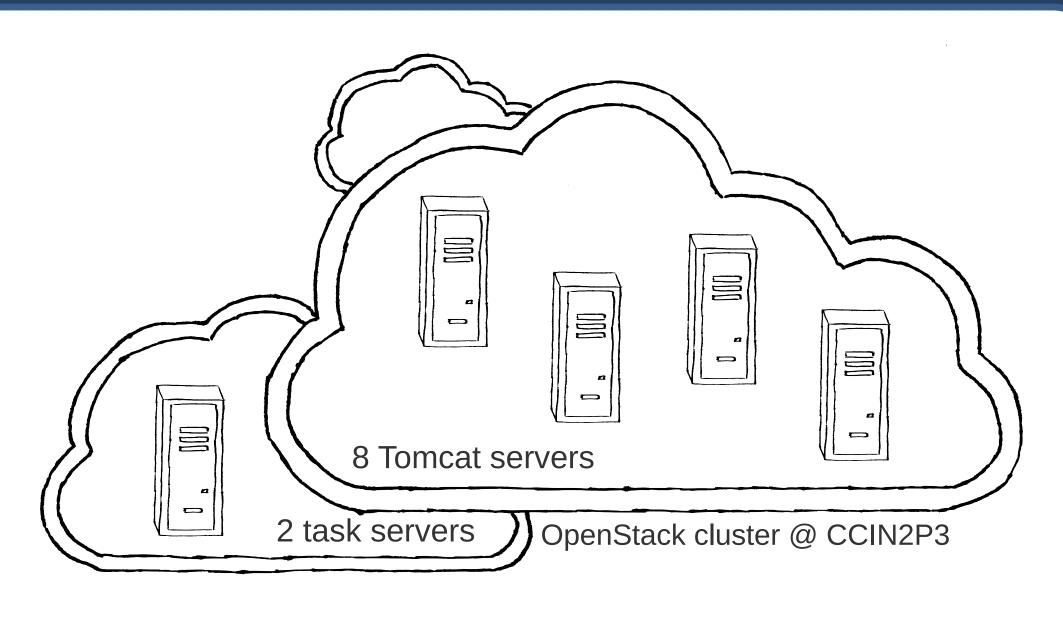


framework and infrastructure.

Important improvements for both

- New robust Python client
- New Web 2.0 framework for web applications (JQuery, Twitter Bootstrap, Ajax, Json, ...)
- Migration to the cloud
- TagCollector III
- New AMI core





AMI is:

- 2.7 millions of datasets (ATLAS)
- 273 millions of files (ATLAS)
- Two new experiments:
- rnEDM (PSI, Ch)
- SuperNemo (LSM, Fr)

