

# C3PO - A Dynamic Data Placement Agent for ATLAS

## Distributed Data Management

- The tools presented in this poster helps keeping the disks available in the ATLAS computing grid filled with popular data.
- The tools recognises popular data and tries to make extra replicas for that data.
- The disks are always tried to be kept at capacity so data has to be deleted.
- Unpopular data can be identified and quickly be deleted if space is needed by removing the least recently used data.
- This space is then filled up the new replicas for the popular data.
- Adding those extra replicas helps the workload management system when scheduling jobs by providing more possible site to send the job to.
- It better distributes jobs over available resources and reduces user waiting time.
- An early version of this tools is already running for some time now and the evaluation of this posters shows first results resulting into needed improvements for future versions.