

# Data Management

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# Data

- ✦ In all the years we have never solved the storage problem
  - ✦ We can lend each other CPU, we never lend storage.
    - ✦ Our attempt at space reservation through SRM was not a thing of beauty
- ✦ If we want to increase the number of people doing science on OSG, we need to somehow provide access to data and deal with results at least for periods of time

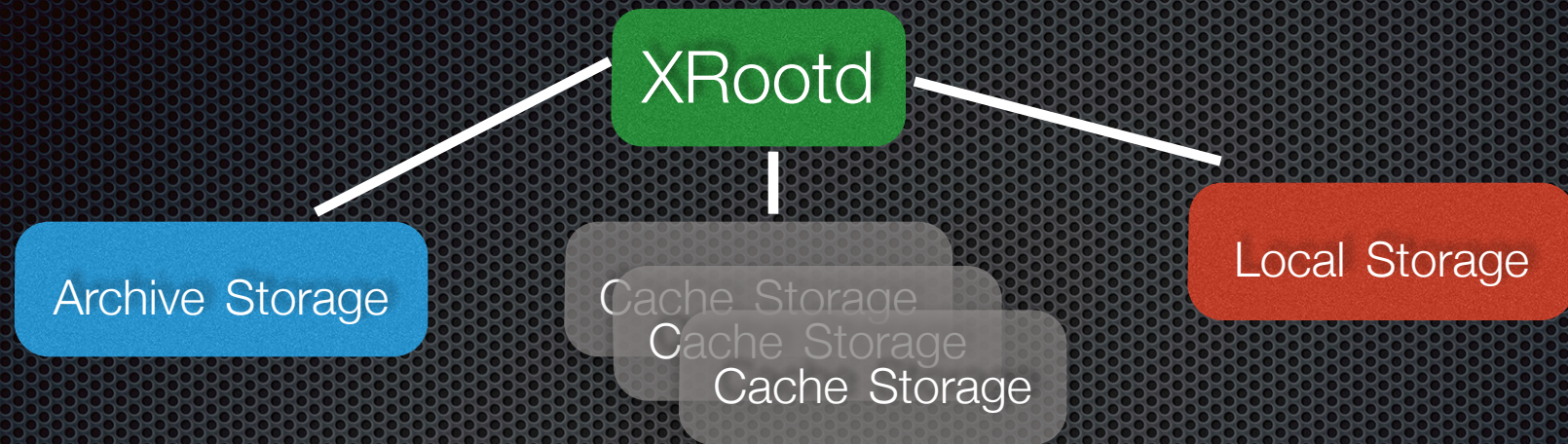


# Data Management

- ✦ The LHC experiments have developed heavy systems for moving files and tracking where they are
  - ✦ Not clear that they are exportable to other communities or operable without more operations effort than we are likely to have
- ✦ At the same time all the LHC experiments are working on data federation
  - ✦ Access to data at a distance and locally stored and controlled data



# Data Management OSG



- ✦ Could OSG use data federations to solve the problems of storage
  - ✦ Caches need some development, but could be a temporary storage solution
  - ✦ Archive services could be something sites could sell
- ✦ This doesn't solve how to deal with output files



# Future

- ✦ We need to deal with data for the OSG to grow into communities that don't have the operations level the LHC experiments have
  - ✦ Needs work in caching and placement
  - ✦ Clean-up
  - ✦ Data listing of what's in the federation
- ✦ LHC Experiments need all of this too for opportunistic computing