





















## **Investment Bankers**

 A great benefit of Grid Computing would be investment bankers who require running huge computations on currency and commodity.





## Virtual Organization

- Grid Computing allows the formation of a Virtual Organization and the members are the ones utilizing the services of the Grid.
- The full and complete realization of the Grid's potential requires that we tweak the architecture that supports the Grid. A simple client-server model is not flexible enough for creating the Virtual Organization.
- A spectrum of Architectures, ranging from client-server to general peer to peer are necessary as participants are alternately resource providers or consumers.











## GC as a business The use of Grids has itself become a business. Sharing and managing resources is a complex task and requires an economic model. New and competitive economic models provide the steps and rules/tools for the sharing and allocation of resources. One of the models for example is barter-based-model, where resources are shared and traded by exchanging. The medium of exchange could be storage space vs. CPU time.





The providers of the service need "price generation schemes" which will help in utilizing the system better, but also to make the service more competitive.

Coordination mechanisms are needed so that the market price equilibrium is obtained and no illegal price manipulation is done.

Currently, Grid related work where scheduling of problems and resource management are done, is decided by a scheduling component. This scheduling component decides based on certain cost functions which jobs can be executed and at which site.

Most systems right now treat cost the same even though different resources might have cost a different amount.





