**VLab**

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**VLab’s General Architecture**

**VLab** is a system aimed to allow geo-materials scientists to execute extensive workflows on top of distributed resources like databases or distributed computing nodes. It will also allow for monitoring executions and analyses of results. A crucial component is the **VLab** portal. It provides to the users the abstraction of a single system, while providing access to the underlying grid resources. It aggregates in a single site the interfaces of the several services used by the users to accomplish their workflows. It will also interface user transparent services like resource brokering and fault tolerance support.

*Pierce, M., Kigelman, D., Nacar, M., Erlebacher, G., da Silva, C. R. S., Yuen, D., **VLab Portals***

**VLab**’s general architecture. The portal (previous slide) interfaces the user with several services producing the consistent view of the numerous grid end resources (right) as a single system.

**VLab** [http://vlab.msi.umn.edu](http://vlab.msi.umn.edu)