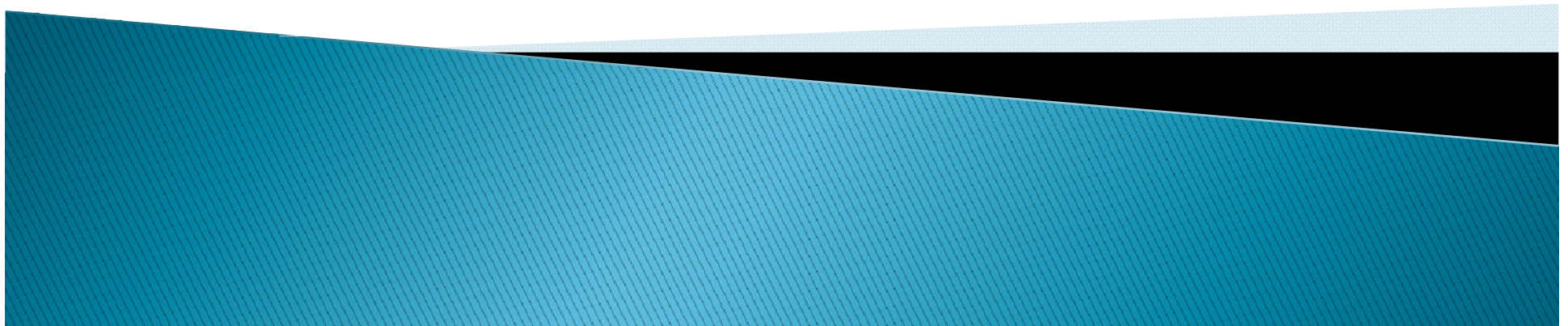


AliEn-OSG

M. Altunay, J. Basney, L. Betev, F. Carminati, S. Cholia,
M. Dias, B. Holzman, R. Iope, J. Newby, J. Porter, A. Roy,
I. Sakrejda, P. Saiz, A. Singh Rana, D. Skinner, R. Soltz



Goal

- ▶ Use American resources using OSG software
 - Create an interface AliEn-OSG



How to interface other grids

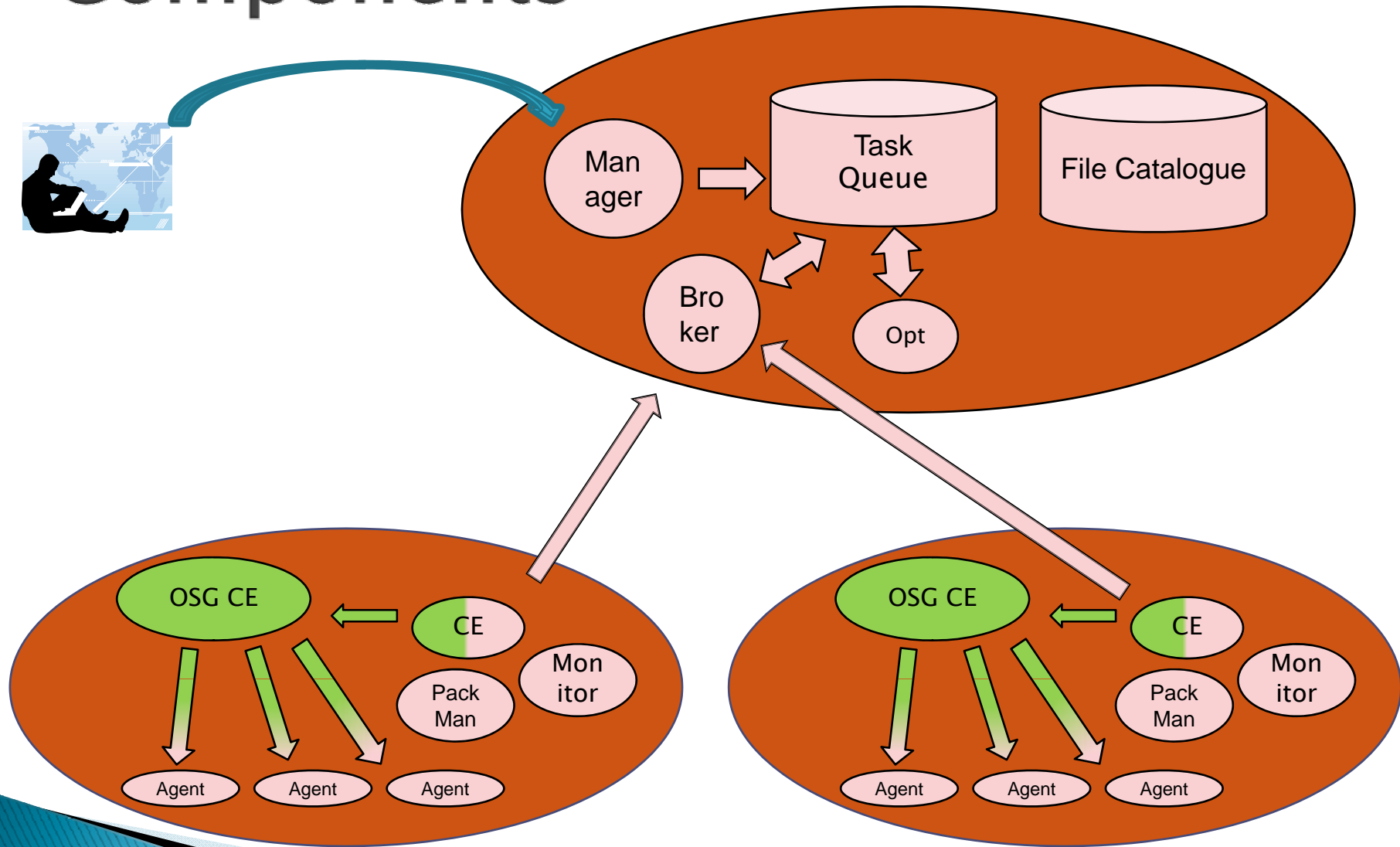


AliEn user interface			
		ARC/	
CONDOR	AliEn		LCED/GLITE
		NORDUGRID	



Nice! I STILL do not have to worry about ever changing GRID environment...

Components



Current status

- ▶ Proof of concept already in place
 - Deployed at NERSC
 - Houston, Livermore, OSC, SPRACE
- ▶ Two modus operandi :
 - In ALICE sites, through vobox
 - Opportunistic resources:
 - JobAgents sent from another site
 - Only using opportunistic CE
 - Will not get accounted
 - ALICE cannot depend on them
 - Each agent installs all the experiment software

Main challenges

- ▶ **Authentication**
 - Running with personal certificate
 - Several alternatives being investigated
 - Service certificate
 - Myproxy
 - Aladdin etokens
- ▶ **Common Accounting**
 - Site ability to track jobs to user
 - User banning
- ▶ **Scalability**
 - Should not be an issue, but has to be checked

Next steps

- ▶ Phase I:
 - Finish the installation of other sites
 - Stress test
 - Common plan for continued full-scale production
- ▶ Phase II:
 - Remote site submission
 - Opportunistic resources

Conclusion

- ▶ AliEn-OSG interface implemented
 - Send jobs to OSG resources
 - Using OSG CE and condor-g
- ▶ Proof of concept deployed at NERSC
 - Deployment in other sites ongoing
- ▶ Ready to start with heavier testing
 - Long-term view: common plan for full-scale production

http://twiki.grid.iu.edu/bin/view/VirtualOrganizations/ALICE_OSG