

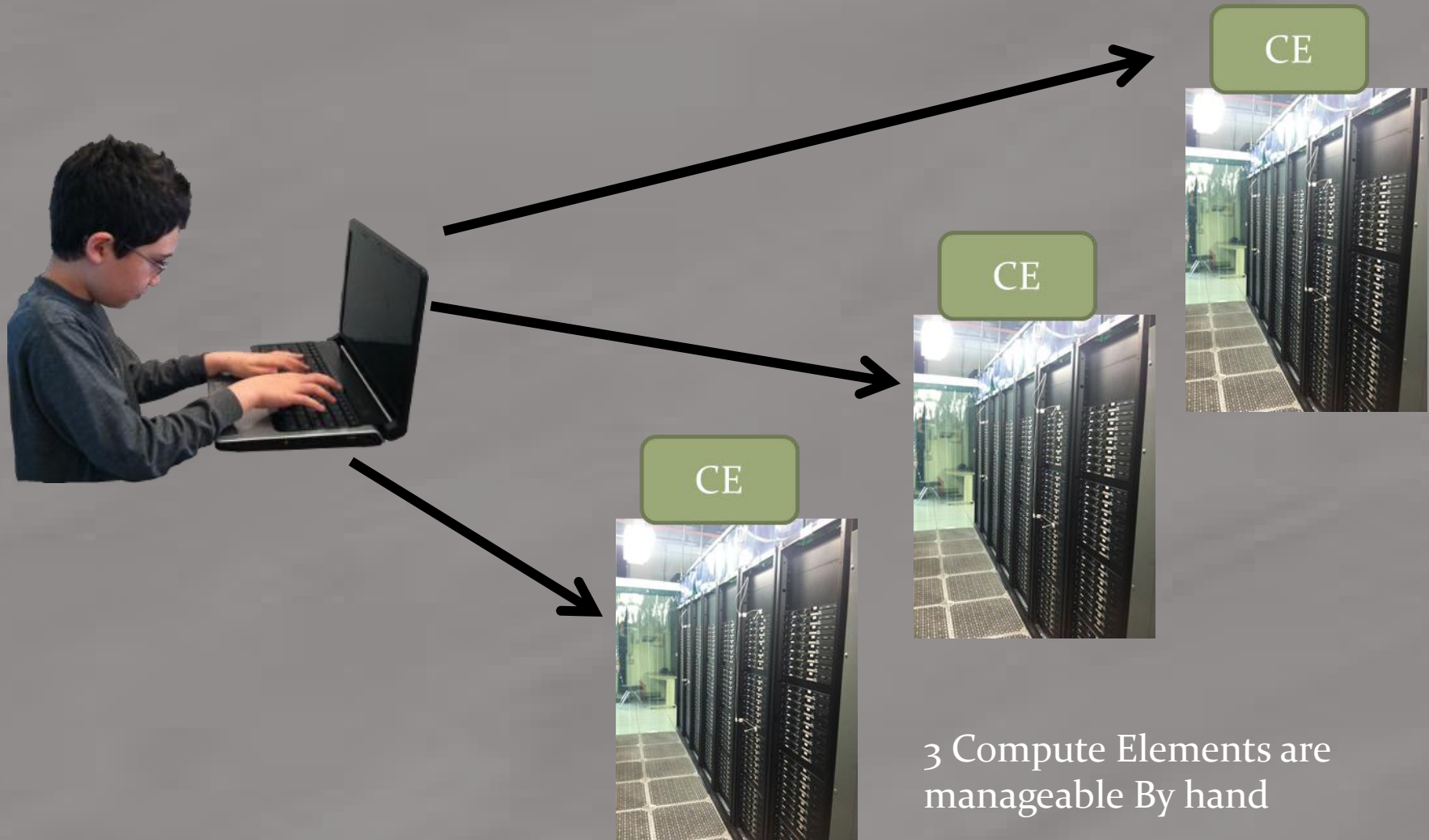
glideinWMS

Stakeholder Meeting

May 20, 2014

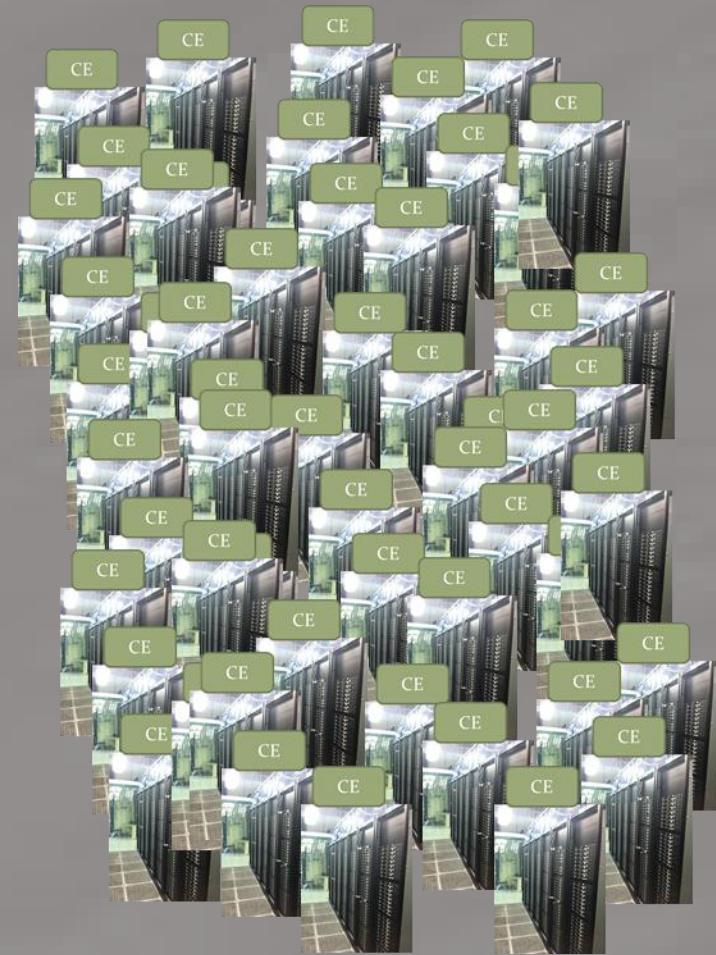
Burt Holzman

Challenges of Grid Computing: Distributed Compute Resources



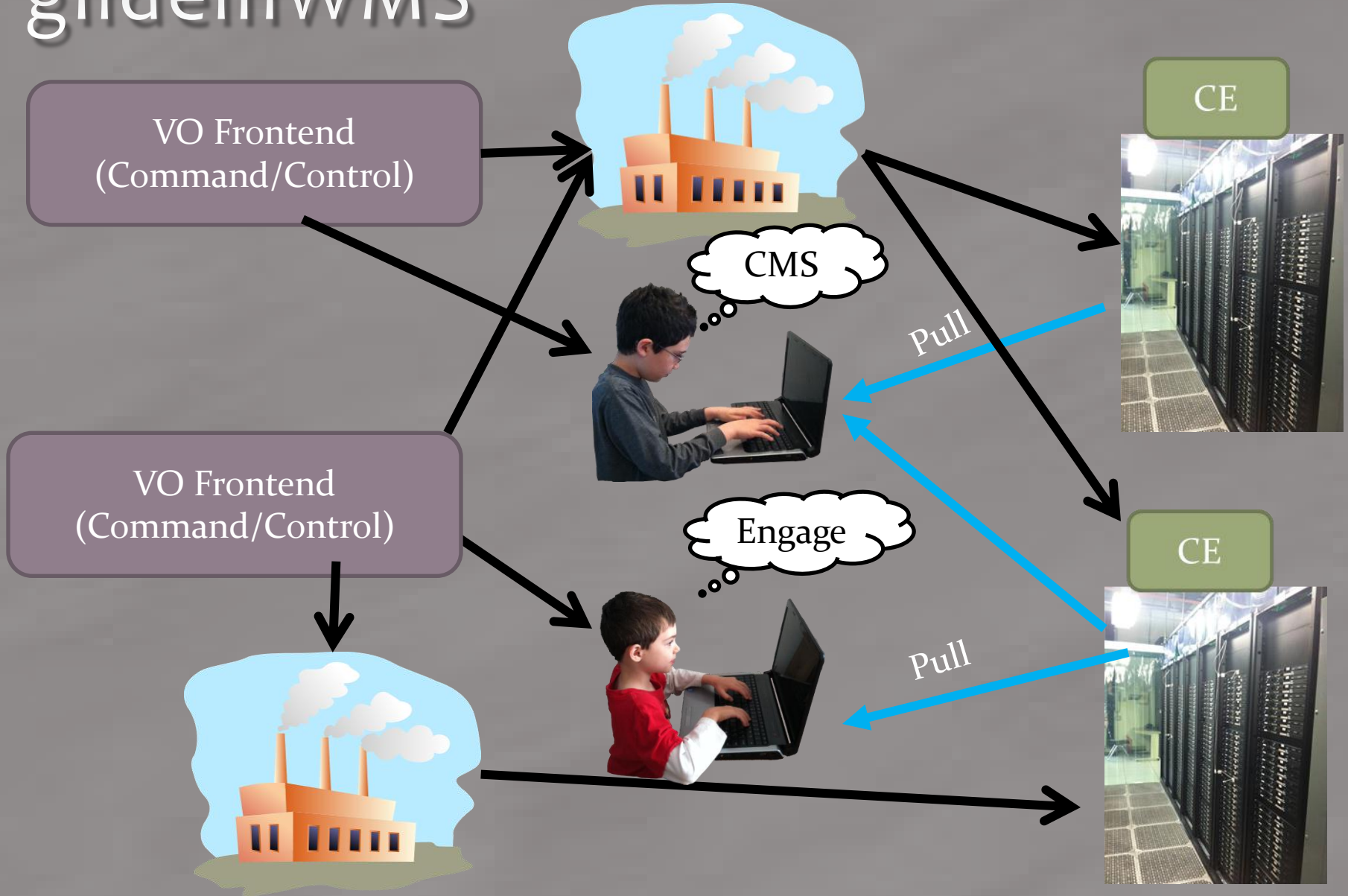
3 Compute Elements are
manageable By hand

Challenges of Grid Computing: Distributed Compute Resources



We need middleware – specifically
a Workload Management System
(and more specifically, “glideinWMS”)

glideinWMS



VO Frontend can talk to multiple factories

glideinWMS: quick facts

- glideinWMS is an open-source Fermilab Scientific Computing Division product driven by CMS
- Heavy reliance on HTCondor from UW Madison and we work closely with them
- <http://tinyurl.com/glideinWMS>
- Effort:
 - Burt Holzman (.125 US CMS)
 - Anthony Tiradani (.2 US CMS)
 - Marco Mambelli (.5 US CMS)
 - John Weigand (.25 US CMS – Contractor)
 - Parag Mhashilkar (.4 SCD)
 - Krista Larson (US CMS)
 - Mats Rynge (ISI/USC)
 - Derek Weitzel (UNL)
 - Igor Sfiligoi (US CMS)

Since we met last

- V3.2.4 release – April 14
 - Updated JavascriptRRD (CMS)
 - Support for HTCondor-CE attributes (OSG)
 - Frontend performance improvements (CMS)
 - Limits on idle glideins (CMS)
 - Badput summary in factory report (OSG/CMS)
 - Bug fixes
- V3.2.5 release – May 19
 - More frontend performance improvements (CMS)
 - Frontend considers MAX_JOBS_RUNNING (CMS)
 - Command line helper tools for frontend (CMS)
 - Bug fixes

Support

- Support Mailing list: glideinwms-support@fnal.gov
- Issues are tracked in the redmine issue tracker
 - Categorization and prioritization based on impact, urgency, and requester
 - Issues are assigned based on developer's expertise and other workload
 - Entire development team is responsible for support
- Development list: glideinwms@fnal.gov
 - Anyone is welcome to join/participate, although discussions are generally technical
- Working with Fermilab Computing Sector Office of Project Management for project support

Ideas for this quarter: discussion

- Partitionable slot / multicore
 - Overprovisioning
 - Properly scaled accounting and monitoring
- BOSCO support
- New monitoring plots – observability improvements
- EC2 Spot Pricing support
- Simplify Frontend policy configuration
- Standardize initscripts, LSB, etc. (for easy integration with managed deployment tools like chef/puppet)