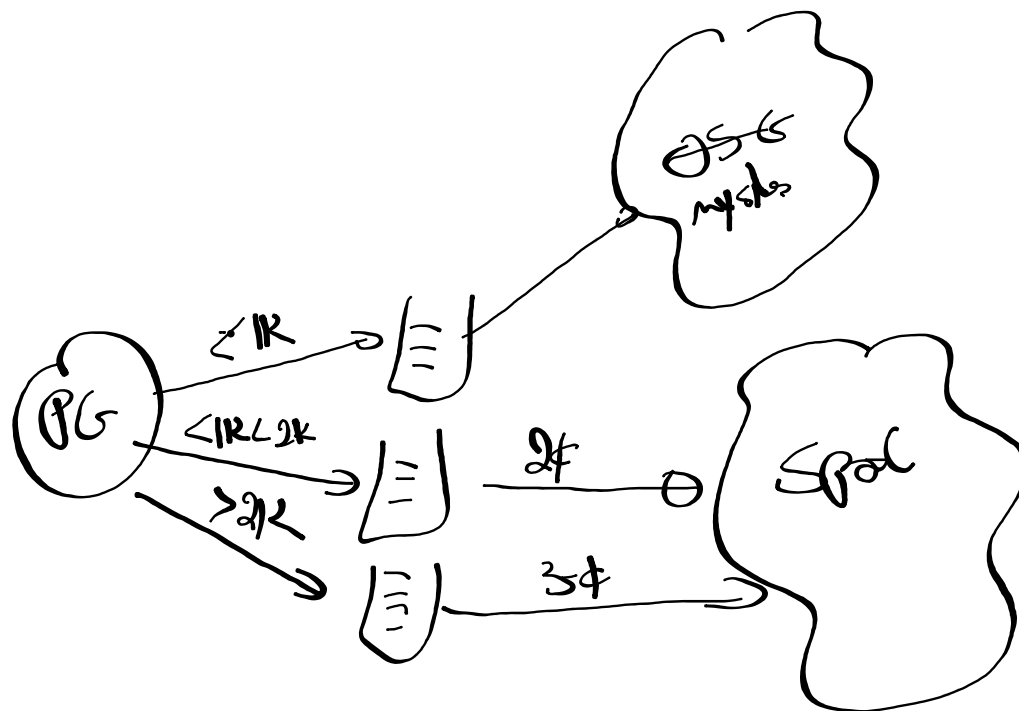


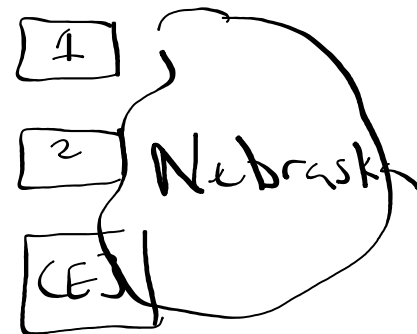
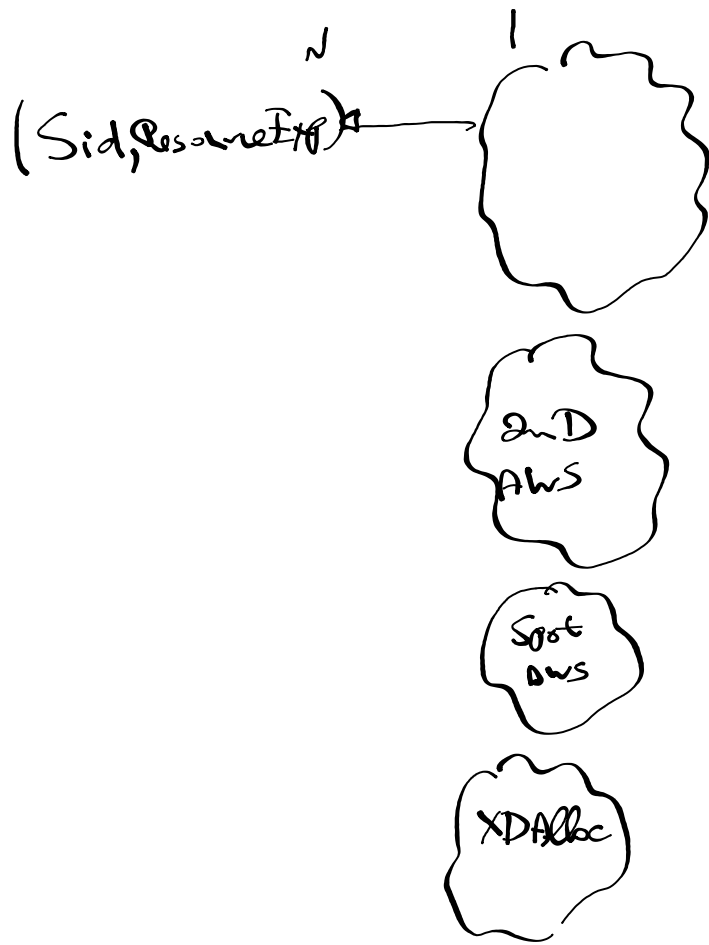
Opportunistic Pool Problems

- 1) VO-specific provisioning policy
- 2) Missing distributed share management
- 3) Missing cross-VO protection
- 4) Auditing model



Take-home

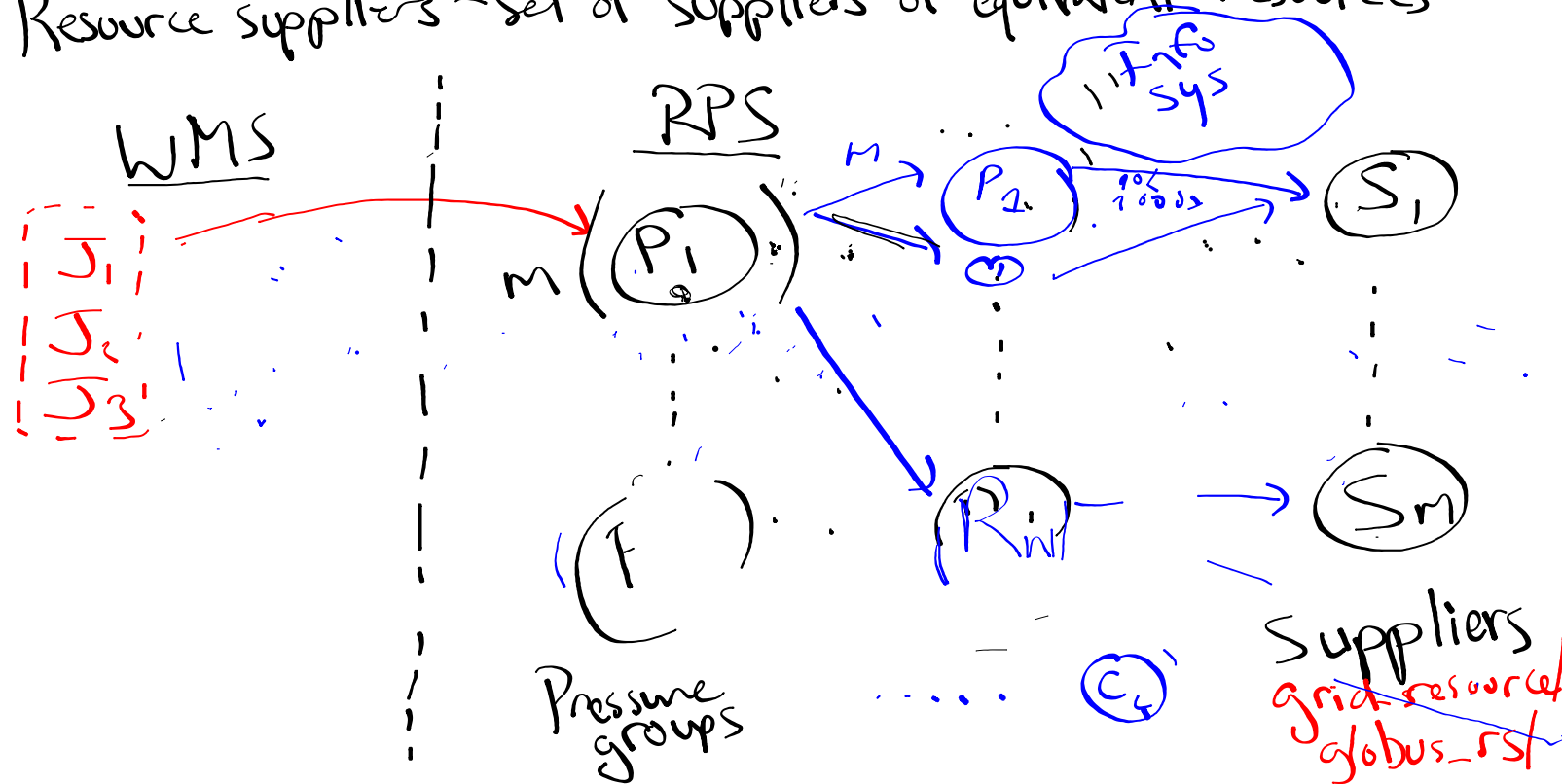
- Draft #2 of Resource Provisioning Blueprint
- Organize opportunistic improvements
- ... → Help ATLAS utilize SDSC
-



Provisioning Concepts

- Pressure groups →
- Provisioner
- Resource suppliers - set of suppliers of equivalent resources

Partitions work in WMS into equivalence classes. Resources matching a pressure group are considered equivalent.



$$\begin{aligned} N &= 1 \\ W &= 2 \\ WX &= 2 \end{aligned}$$

$$\begin{aligned} 2 &\rightarrow N \\ 3 &\rightarrow W \end{aligned}$$

J_1 Desired = Nebraska[#]

J_2 Desired = Nebraska, Wisconsin

J_3 Desired = Wisconsin

J_4 DESIRE = W

J_5 DESIRE = N, W

CrossCE → Nested Provisioning

- Opportunistic Pool / flocking
- "Stem Cell" pilots
- Provisioning-based scheduling

Sandbox techniques

1) glxec

2) whole-machine

3) Parrot (non-recursive)

4) Container techniques

Common Project Ideas

- Give site a comparison of grid status vs. batch status
- Give site a common view of pressure groups
- Site view of local provisioning failures
- Machine features implementation
- Improved debugging of batch submit failures
- Develop capability to do allocation-based provisioning
- Document provisioning policies for VO use cases, including non-free resources
- Explore OSG usage of XSEDE