



Pilot Management and Resources Provisioning

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Computing Common Projects – Brainstorming
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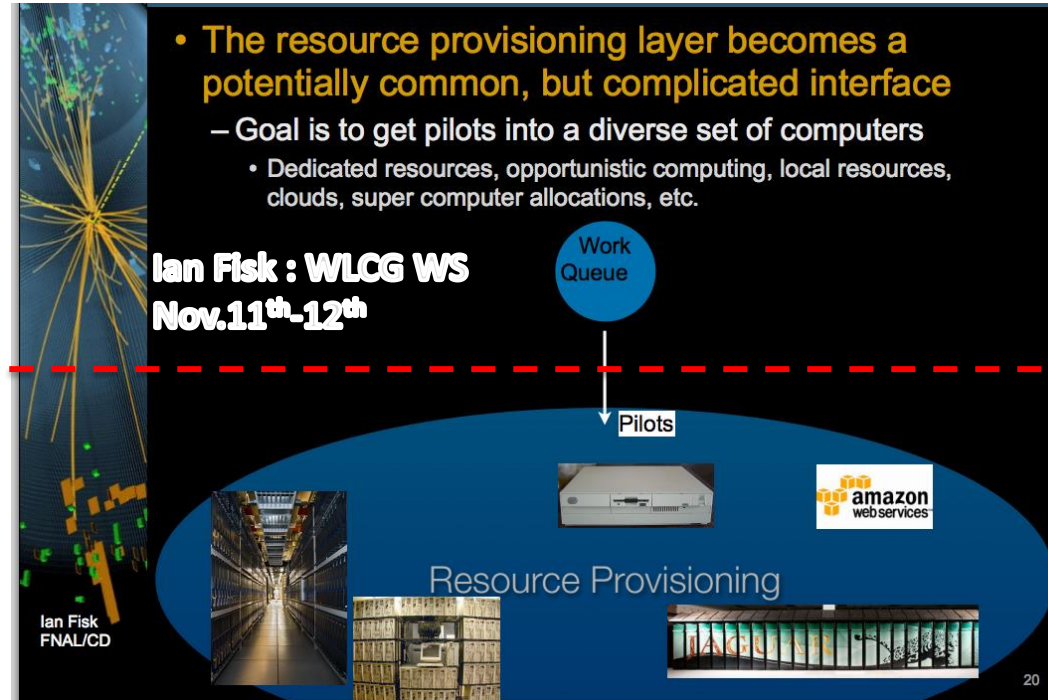
Introduction: The Process

- Define “Resource Provisioning” and its goal(s)
- Brainstorming
 - Try to **focus on principles** rather than on implementations
- Wrap-up



Resource Provisioning: Definition

- Resource Provisioning (RP) is about **how we get pilots into diverse set of computers**
 - Completely experiment free: common
- The key to RP is **effective management and exploitation of all computing resources**
 - Goal is to allow experiments to get groups of instances for periods of time



- Global queue:
 - Experiment specific queue for workload
- Pilot:
 - Here is meant as a entity which can communicate with experiment's queue

Brainstorming: Start

- Experiment's queue can be agnostic about the RP
 - Don't need to know if pilot is on desktop/HPC/cloud...
 - But some specs info are needed: time floor, memory, storages
- RP deals with VO shares
 - At which level **experiments would need to influence shares**, if any
 - Priority may be completely on queue side under experiment control

Still Brainstorming

- RP should **make easy for people to give local resources**
 - For private transient resources management
 - Security... , only matter of policies?
- **RP can be influenced by experiment**
 - To give people special access to resources they provide
- RP should **guarantee to make the most efficient use of the all available resources**
 - Being responsible to allow the experiment getting N instances for M hours
 - Avoid wasting money, avoid wasting people time

More Brainstorming

