DØ Grid Production Workshop INTRODUCTION

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Thank you for coming!

Why are you here?

Winding down SAMGrid
DØ Task List
Understand the system
Gather input for improvements
Forward looking

DØ Relies on SAMGrid system for remote processing

Automate use of the Grid

The SAMGrid System is a success

P17 Reprocessing

P17 Refixing

Continued MC Production

P20 Reprocessing (getting better)

Want More, More, More

DØ Task List

MC: write intermediate files, start in the middle, alter workflow (run other programs)

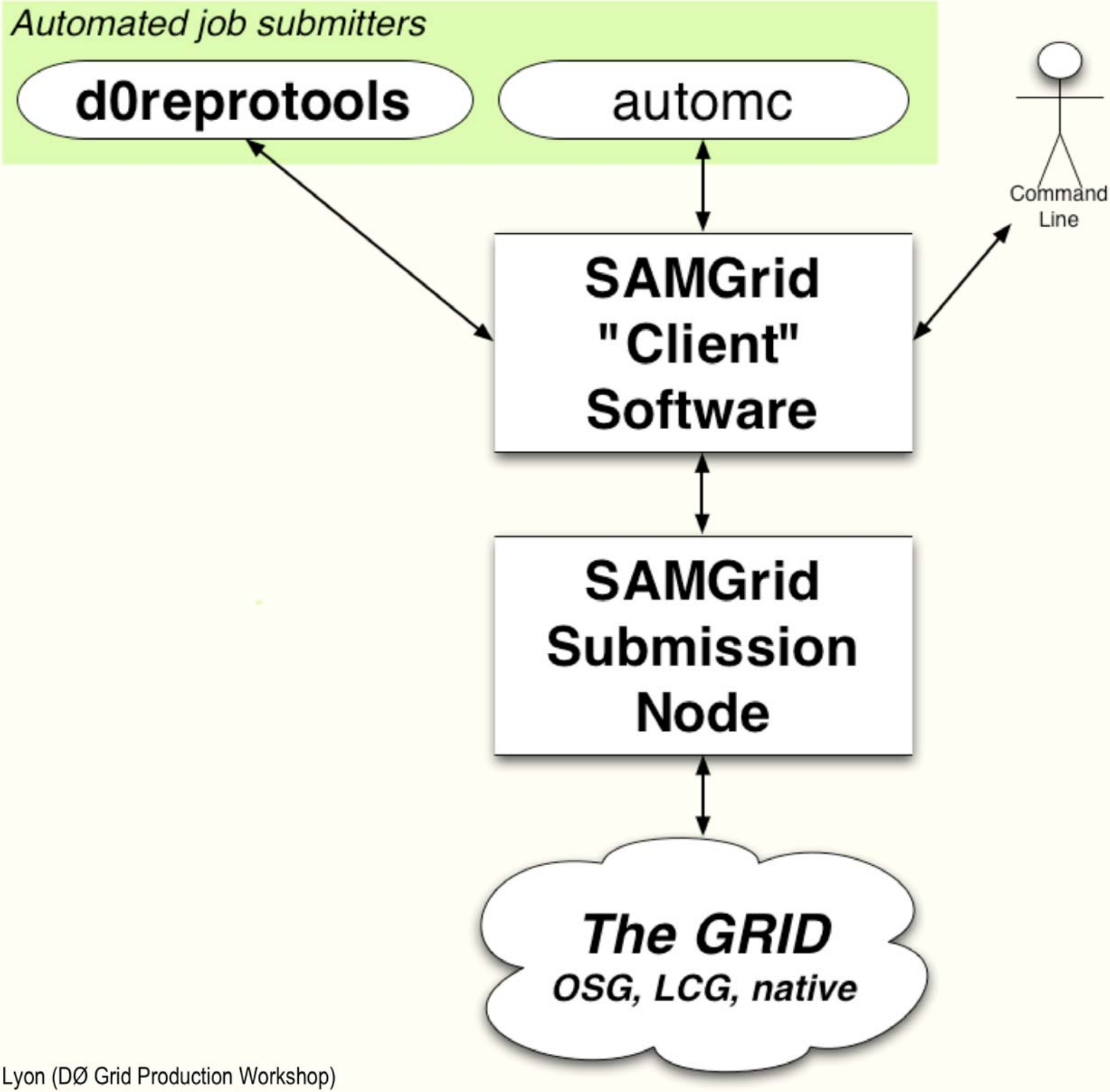
Collider Data Production:
Skimming, CAF production, run standalone code (raw2sim, AADST, recocert), merge recocert, merge multiple streams, broker, fixing, analysis

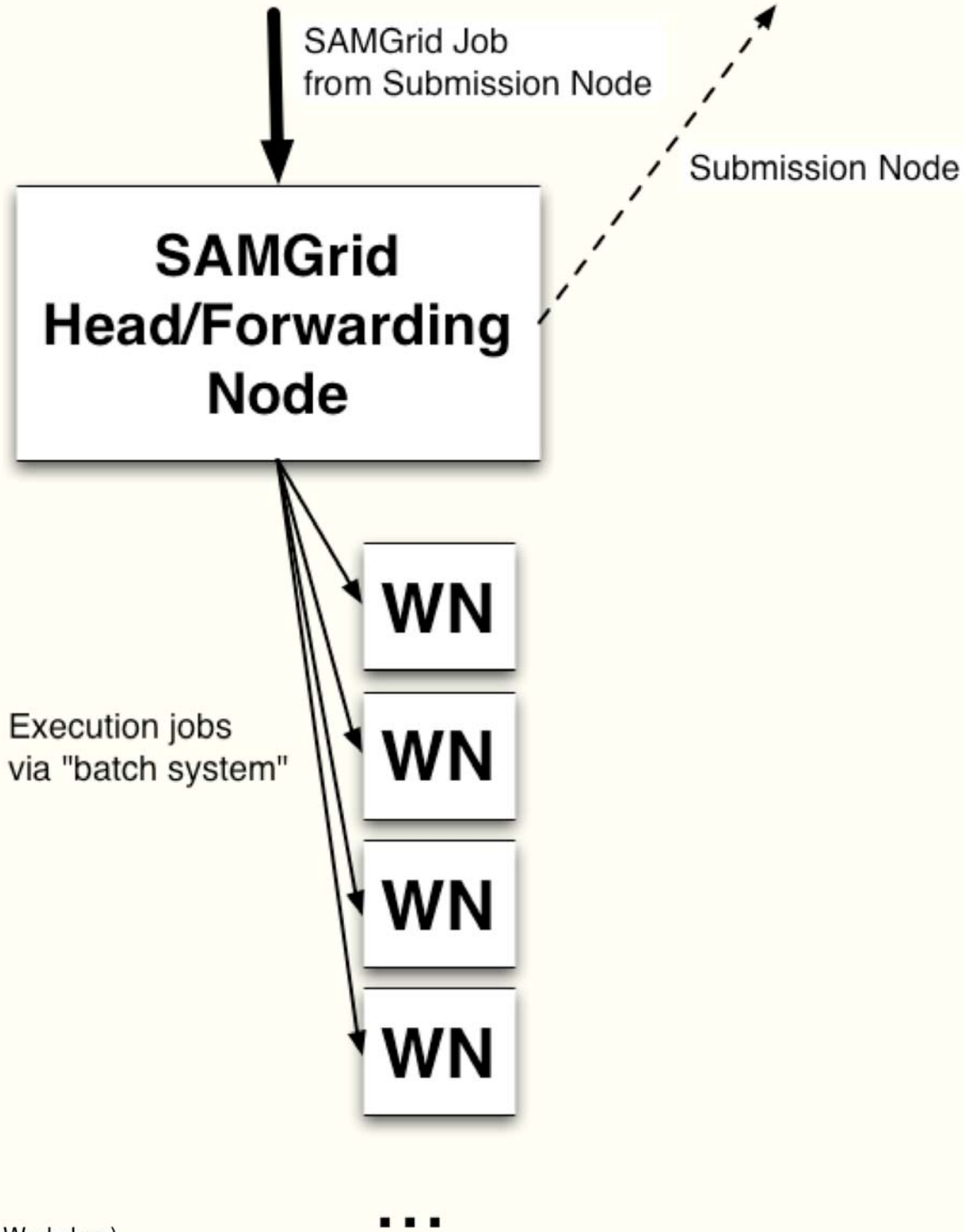
Current System

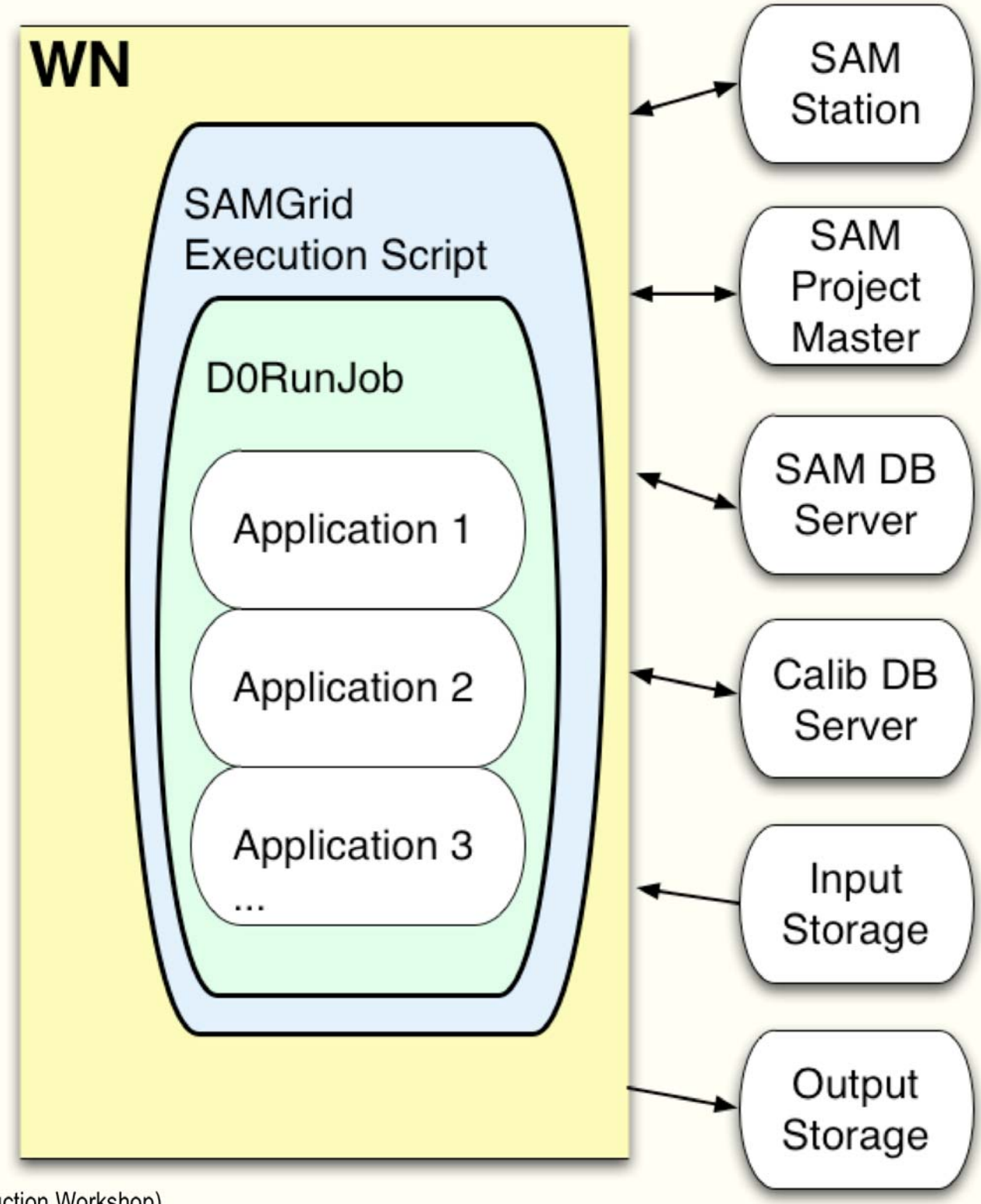
Submitting SAMGrid jobs

Routing the execution jobs to the worker nodes

Running the application


Automated job submitters
d0reprotools
automc
Command Line
SAMGrid "Client" Software
SAMGrid Submission Node
The GRID
OSG, LCG, native


SAMGrid Job
from Submission Node
Submission Node
SAMGrid
Head/Forwarding
Node
WN
WN
WN
WN
Execution jobs
via "batch system"
...


WN
SAMGrid
Execution Script
D0RunJob
Application 1
Application 2
Application 3
...
SAM
Station
SAM
Project
Master
SAM DB
Server
Calib DB
Server
Input
Storage
Output
Storage

Competing Expectations

Efficiency

Expediency

Maintainability

What do do?
How can you help?

Remember the reality!

Experiences of others?
Code and expertise to utilize?