



Offline Production Operations Services (OPOS)

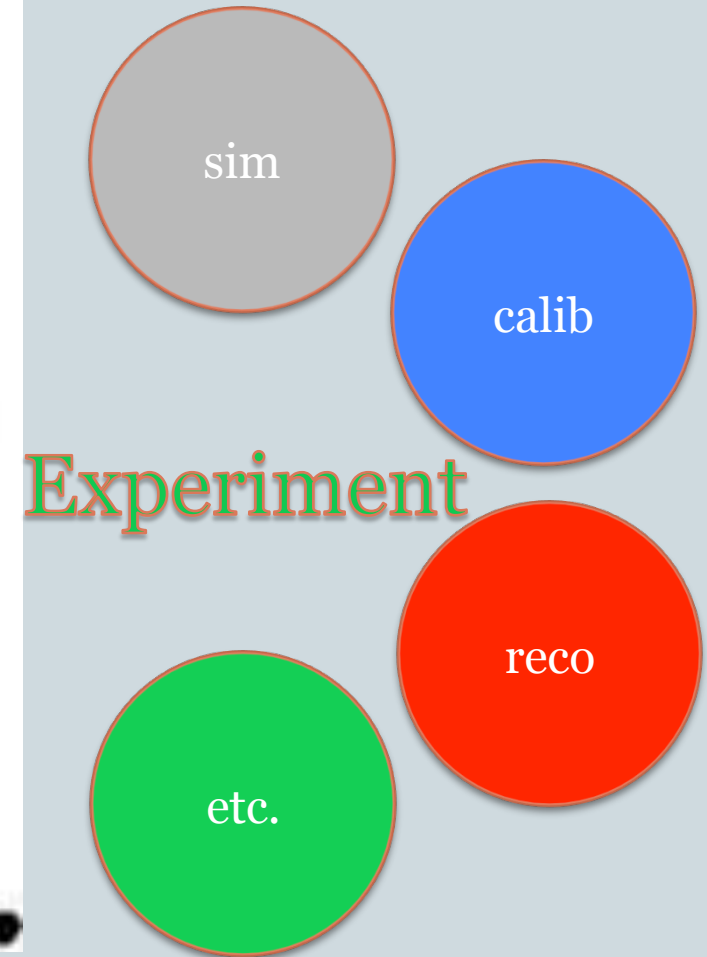
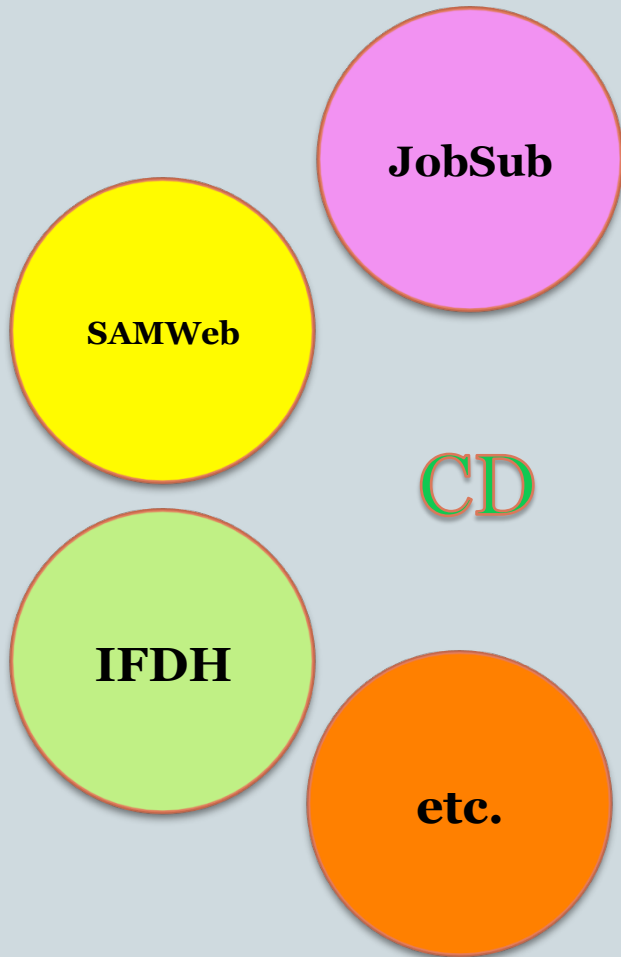


**FIFE WORKSHOP
1 JUNE 2015**

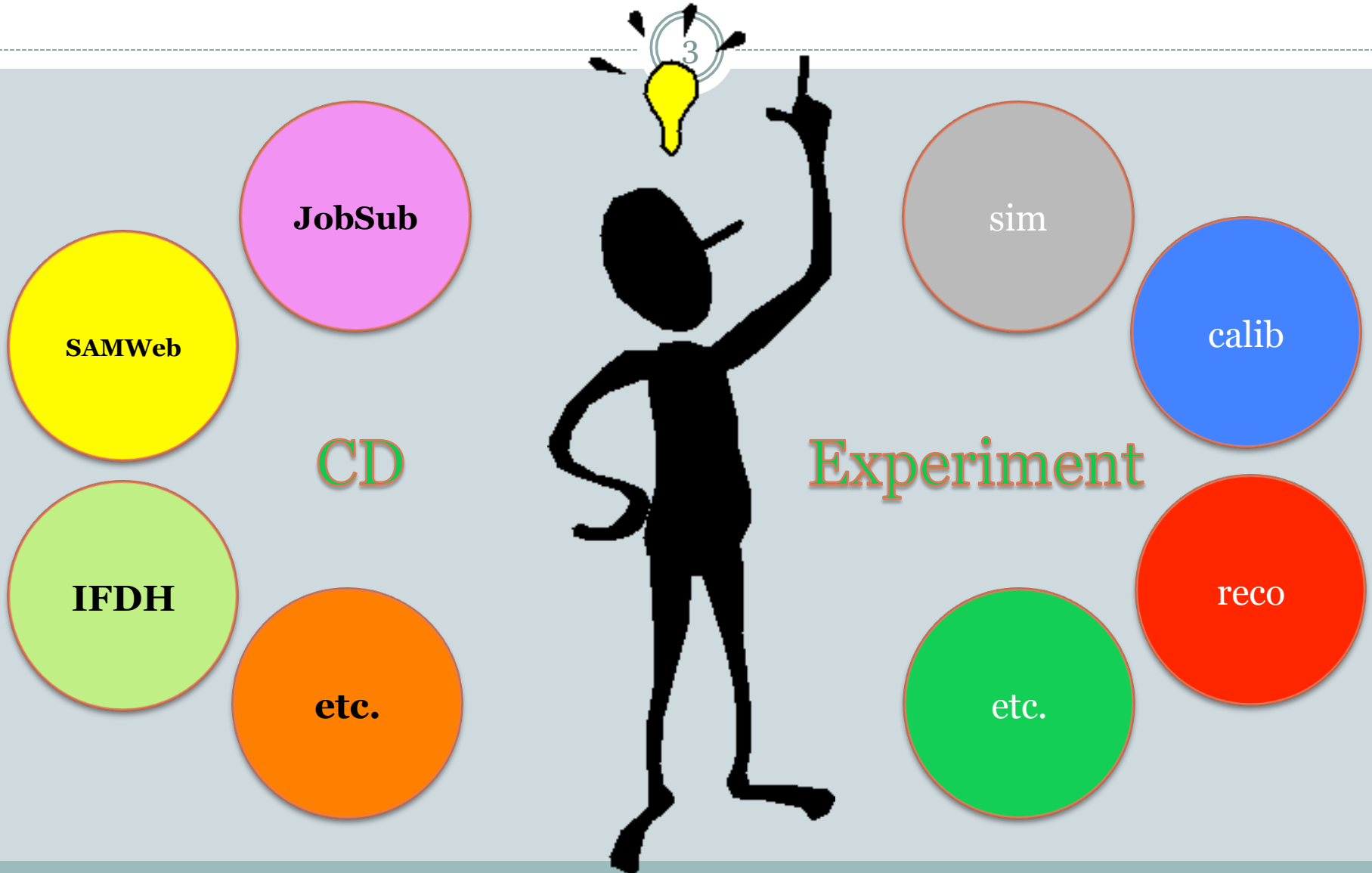
**ANNA MAZZACANE
OPOS GROUP LEADER**

Offline Production: Many Worlds

2



FIFE & OPOS



OPOS

4

- OPOS: Offline Production Operations Service.
- The scope of this “new” group in the SCD is assisting the IF experiments with running their large scale production workflows.
- Details of the workflows and activities provided to each experiment are negotiated between the experiment and the OPOS group.
- Created following successful CMS Operators team.
But more challenging: different experiments (different lifecycles, needs, tools, deadlines, ...) and critical manpower in each experiment.
- OPOS group expands human resources of experiments offline team with additional expertise (Computing Scientists and Physicists) while coordinating across multiple requests.

OPOS (cont'd)

5

- This group was not supposed to develop software.
 - **However** the team is composed by skilled people and they are constantly assisting experiments for scripting and debugging.
- This group does not make its own scientific judgment.
 - **However** the team is aware and understand the needs of an experiment and contributes to improve the production efficiency.
- The group consists of two Computing Scientists:
 - Paola and Quilan (Jeny left one week ago).
- And two Physicists:
 - Vito (50% on LArSoft) and Anna (group leader).
- 1 position as Applications Physicist I.
- 1 position as a term visiting Scientist.



What we offer to the experiments

6

- **Offline Production Processing:**
 - Keep up (raw data and reconstruction), calibration and MC simulation.
 - Submission, monitoring, debugging and accounting jobs on the grid (FermiGrid and OSG).
 - Status reporting, storage and registration of output data.
 - The service is free and guarantee 8/5.
- **See the Service Level Agreement (SLA) for further details:**
 - [cd-DocDB-5563](#)

What we require from the experiments

7

- To be eligible to request this service, the experiment must meet the following requirements:
 - production code, scripts and configuration files
 - ✦ must be registered with a supported revision control system
 - ✦ should be contained within a package or set of packages/modules which have names that distinguish them as production level content (i.e. put them in a package named “ProductionScripts”).
 - ✦ must be assigned a release tag or global version (as appropriate for the version control system being used) which captures the complete state of the system used for the request.
 - Ownership, access and commit privileges for the production scripts should be limited to authorized people (i.e. Experiment’s offline production group and the OPOS group)
 - See SLA for further details

How Can an Experiment Make a Request

8

- After mutual agreement of the service (documented in the TSW) and the training of the OPOS team by the experiment's offline people:
 - Open a SNOW ticket following instruction in our wiki page on redmine:
https://cdcvs.fnal.gov/redmine/projects/offline_production_operations_service/wiki/New_OPOS_Request
 - Make sure to add all details in the ticket.
 - If the request is revised, open a new ticket (preferably).
 - Requests for the daily keep up are renewed once a week.

What kind of requests?

9

Not all requests with the word “Production” are for OPOS!



A Bridge Among Worlds

- The OPOS group is providing feedback to experiments and to SCD service groups.
- The group is facilitating the transfer of tools and know-how among experiments.
- The group is helping experiments in adopting common tools for an efficient sharing of existing resources.
- The goal of the group is to help experiments with increasing their productivity.
- Minos+, MINERvA and NOvA are already on board, MicroBoone and Mu2e will follow.

Tools and Utilities

11

- We have also set up:
 - OPOS mail box:
opos@fnal.gov
 - OPOS redmine:
https://cdcvs.fnal.gov/redmine/projects/offline_production_operations_service
 - OPOS ECL:
http://dbweb0.fnal.gov/redirector/ecl_instances.html
 - OPOS DocDB:
<http://projects-docdb.fnal.gov/cgi-bin/ListGroups>

Summary

12

- OPOS group is now a reality and consists of four (3.5 FTE) skilled people.
- OPOS is a free and 8/5 service offered by the SCD to the IF experiments.
- OPOS group is intended to help and to assist experiments in their offline production.
- OPOS is encouraging experiments to adopt FIFE tools.
- OPOS has started this year to organize and coordinate among different needs from different IF experiments.

Happy production!