# OSG as XSEDE SP: Report to OSG Council

1. OSG continues to provide HTC compute resources to XSEDE users since April 1,2012
    a. Allocations via XRAC process; 2M hours available per quarter
        i. No XRAC allocations for the last quarter, but several startup allocations
        ii. Cumulative usage so far has been ~10M hours; but recent usage rate is 4M per quarter
    b. System is stable and has >99.9% availability
    c. System is also used for non-XSEDE users; we plan to separate out some GlideinWMS services to another machine to scale better and handle peak loads

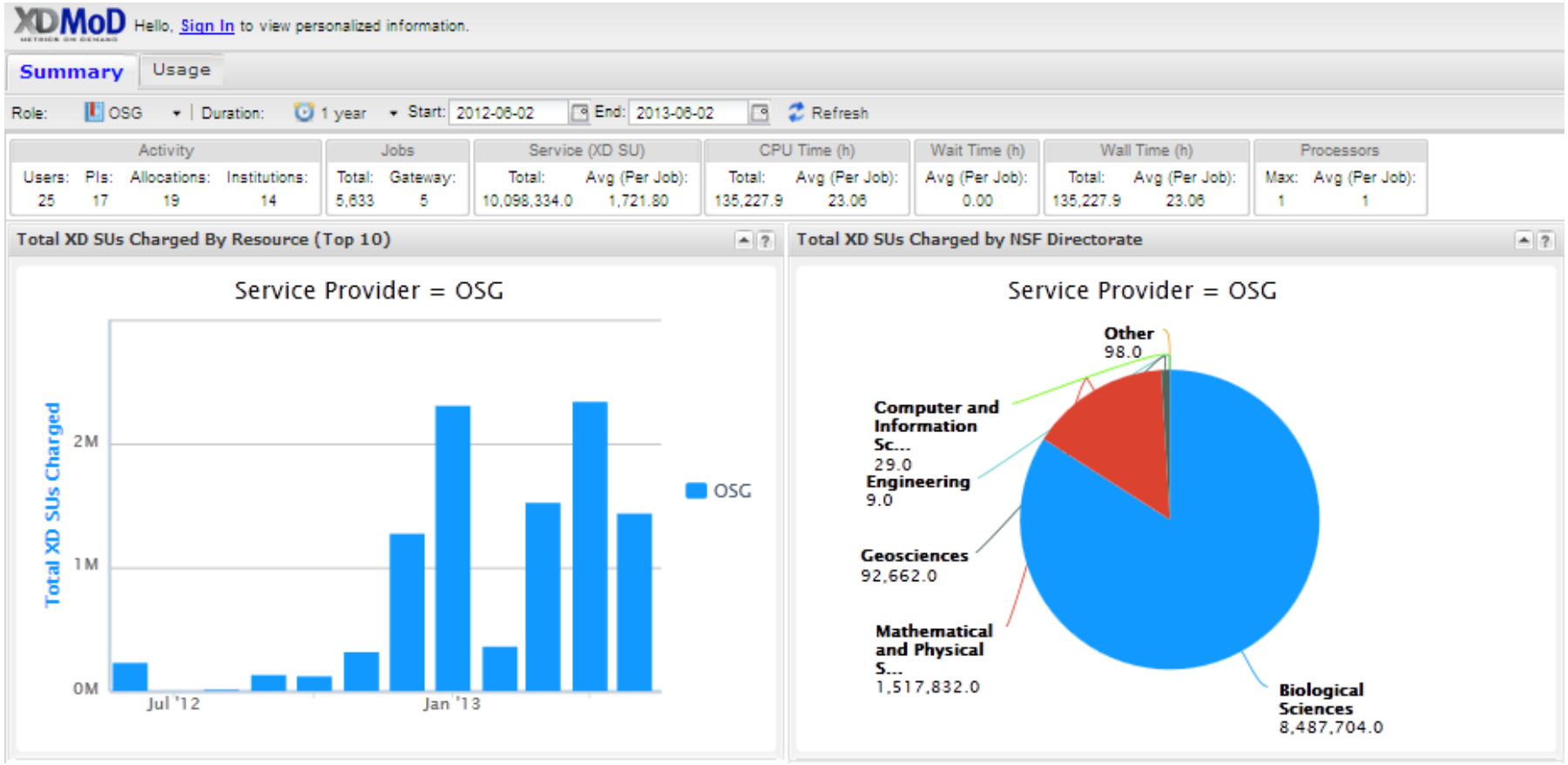
2. Updated strategy for PI allocations “exhaust”
    a. XRACs are for N service units, for one year. This model works fine for HPC systems, but is too rigid for a HTC system. Preferably, the user should be able to keep running as long as there are available opportunistic cycles.
    b. We have solved this using HTCondor accounting groups and modifications to the XSEDE central database integration layer
        i. While a user still have SUs left, jobs are automatically placed in a group_xsede.high accounting group
        ii. After the user have exhausted their SUs, jobs are placed in an accounting group named group_xsede.low (note that we do not disable the project here, as is the default in XSEDE)
        iii. The slot allocation between the groups will probably be adjusted over time. Currently they are set as 75% goes to group_xsede.high and 25% to to group_xsede.low

# XRAC Awards

| Last_name | First_name | Organization | Charge_number | FOS | Start_date | End_date | Allocation |
|---|---|---|---|---|---|---|---|
| Nath | Pran | Northeastern University | TG-PHY110015 | Physics | 04/01/12 | 03/31/13 | 2,000,000 |
| Shafi | Qaisar | University of Delaware | TG-PHY120014 | Physics | 04/01/12 | 09/30/13 | 500,000 |
| Deelman | Ewa | University of Southern California | TG-AST110053 | Astronomical Sciences | 06/20/12 | 09/30/12 | 950,000 |
| Petravick | Donald | University of Illinois at Urbana-Champaign | TG-AST060036N | Astronomical Sciences | 07/01/12 | 06/30/13 | 200,000 |
| Jha | Shantenu | Rutgers, the State University of New Jersey | TG-MCB090174 | Molecular Biosciences | 07/10/12 | 06/30/13 | 5,000 |
| Hacker | Thomas | Purdue University | TG-BCS110002 | Biological and Critical Systems | 10/01/12 | 09/30/13 | 100,000 |
| Krieger | Donald | University of Pittsburgh | TG-IBN130001 | Integrative Biology and Neuroscience | 11/05/12 | 12/31/12 | 684,000 |
| Chong | Lillian | University of Pittsburgh | TG-MCB100109 | Molecular Biosciences | 01/01/13 | 12/31/13 | 500,000 |
| Krieger | Donald | University of Pittsburgh | TG-IBN130001 | Integrative Biology and Neuroscience | 01/01/13 | 12/31/13 | 3,476,000 |
| Anderson | Phillip | University of Texas at Dallas | TG-ATM130015 | Atmospheric Sciences | 04/01/13 | 03/31/14 | 200,000 |
| Gull | Emanuel | University of Michigan | TG-DMR130036 | Materials Research | 04/01/13 | 03/31/14 | 1,000,000 |
| Nath | Pran | Northeastern University | TG-PHY110015 | Physics | 04/01/13 | 03/31/14 | 1,000,000 |
| | | | | | | | |
| | | | | | Total = | | 10,615,000 |

And ~60 more startup, training, and staff award

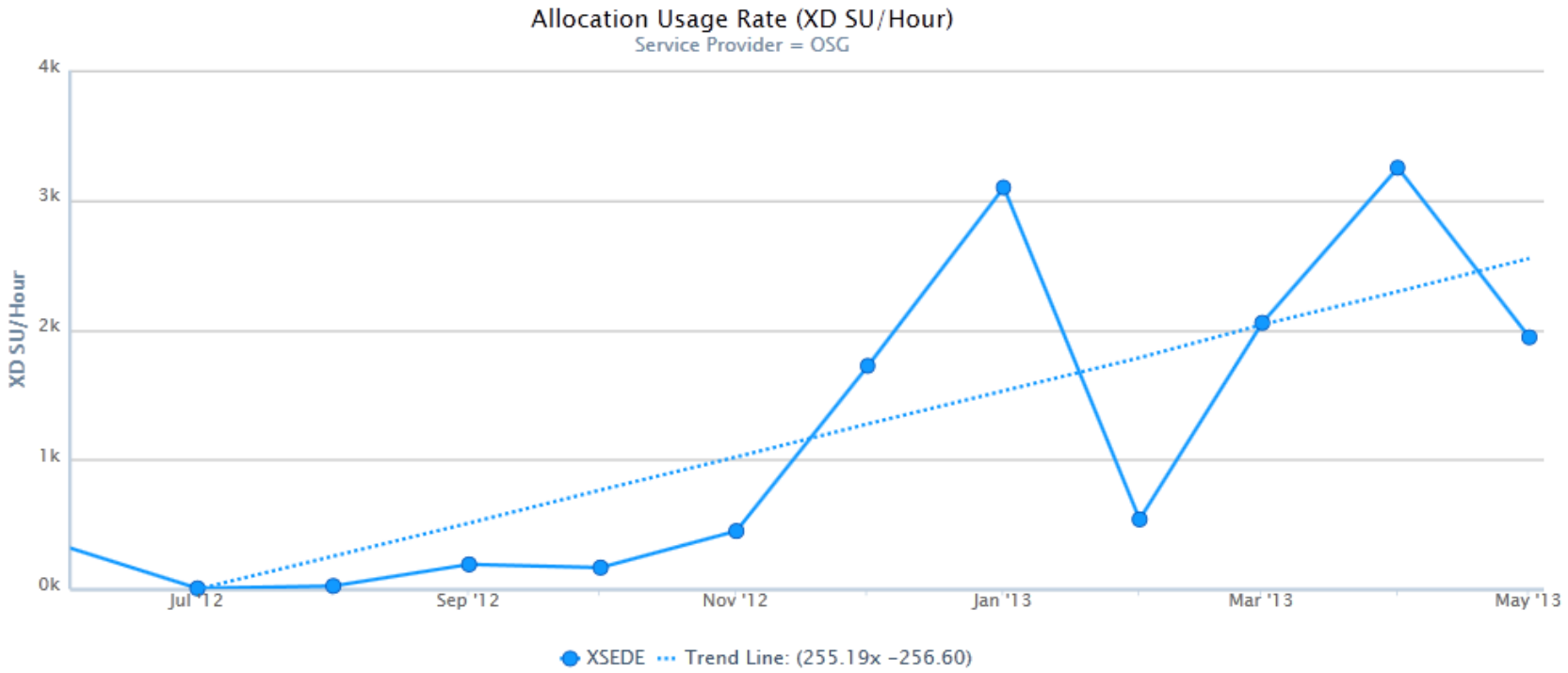
# OSG-XSEDE Usage Summary for last year




10M hours delivered in the last year; the biggest users have been

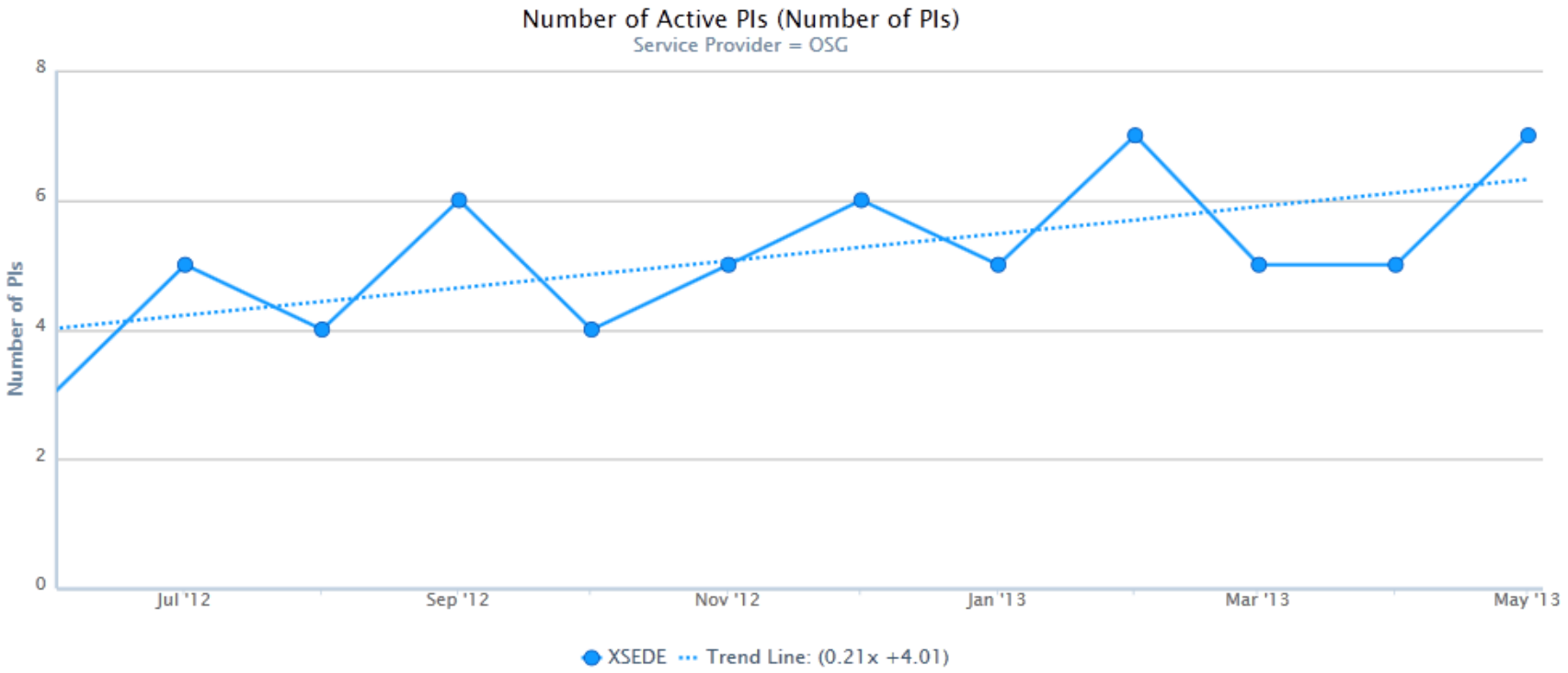
- Don Krieger; U-Pitt; Brain Concussion Research = 8.5M hours
- Pran Nath; Northeastern U; LHC Theory = 1.5M hours

## CPU Usage Trend of OSG-XSEDE for last year




Recently, we are using 2000 – 3000 cores per hours

## Active PIs Trend for last year




In any month, we have 5-6 active PIs (each with their own allocation and multiple users)