

# THE NEXT 5 YEARS: UNIVERSITY OF NEBRASKA



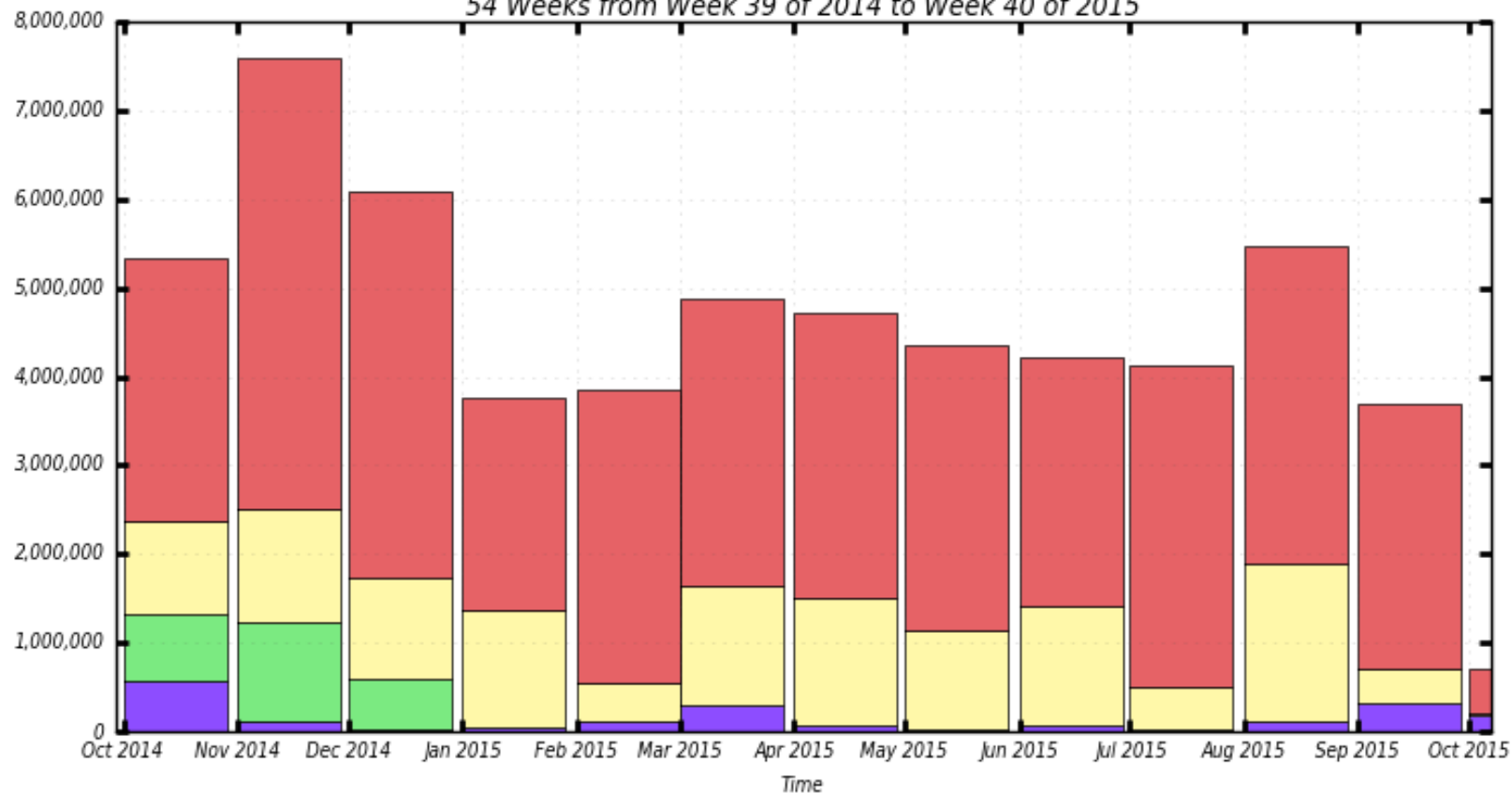
# HCC THANKS OSG

- All machines at HCC are DHTC enabled
- HPC and HTC coexist peacefully
- Various users have accessed large bursts of cycles
- HCC accounting is unified via Gratia
- Tier2, OSG provide hardware, key personnel, and ties to exciting science



# Monthly Wall Hours per Facility

54 Weeks from Week 39 of 2014 to Week 40 of 2015



Nebraska

Tusker

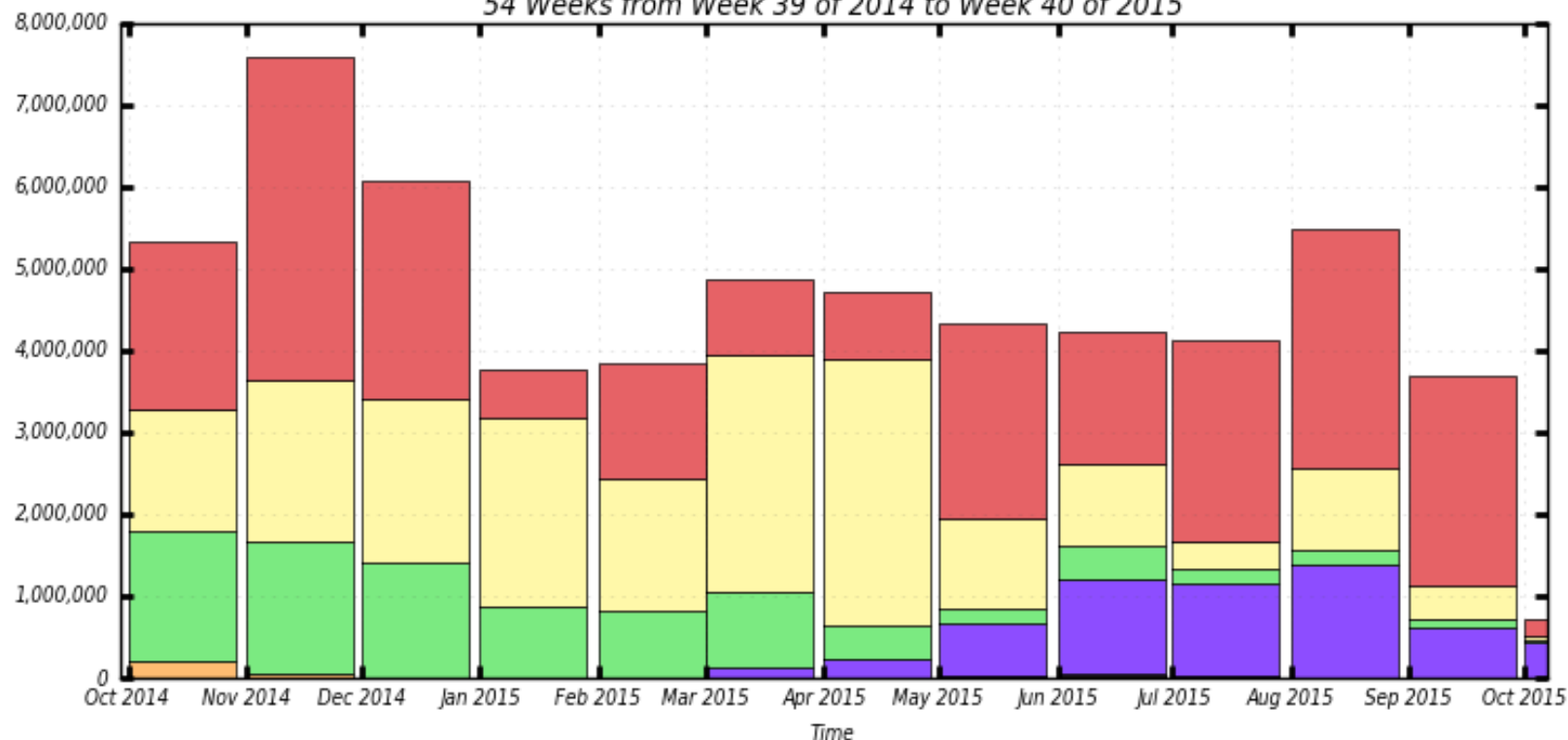
Sandhills

Crane

Maximum: 7,583,106 , Minimum: 0.00 , Average: 3,940,768 , Current: 708,243

# Monthly Wall Hours per VO

54 Weeks from Week 39 of 2014 to Week 40 of 2015



Maximum: 7,583,106 , Minimum: 0.00 , Average: 3,940,739 , Current: 707,806

# COMMITMENT TO OSG

- Sharing opportunistically prominent HCC policy for all resources
  - Significant cycles used in spurts
  - Net cycle provider last couple years
- Share OSG principles and goals in various campus / regional / national organizations
  - ACI REFs
  - GPN/ CIC
  - CASC
- Tier2 site for US CMS





**BOSCO**  
Open Science Grid

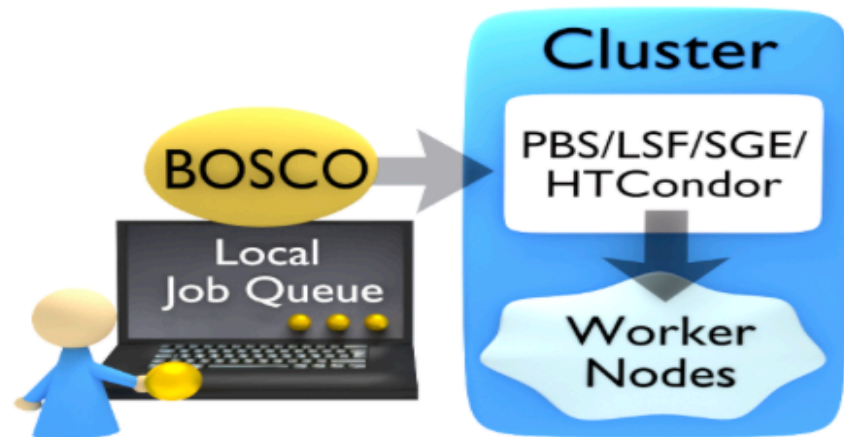
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# BOSCO

**Submit Locally. Compute Globally.**

BOSCO makes it easy for you to access High Throughput Computing resources on your campus or the Cloud from your desktop.

[Download](#)



## Workflow Management

Handles complex job dependencies

## Multiple Clusters

Runs on LSF, PBS, SGE, and HTCondor

## Simple Setup

Installed as non-root, simple config

# ONGOING WORK FOR THE NEXT 5 YEARS

- BOSCO (Derek Weitzel)
  - Integrated with HTCondor
  - Heavily used by OSG VO
- StashCache (Derek, Brian Bockelman)
  - Continued from AAA
  - Ongoing Challenge of Data Handling for HT Workflows
- Maintain Gratia for our campus (Garhan Attebury)



# ONGOING WORK FOR THE NEXT 5 YEARS

- User Support (Emelie Harstad)
  - HCC regularly hosts SWC sessions
  - Emelie involved with OSG User Support
- OSG access for GPUs, other hardware
  - multicore, large RAM
- Have hosted AHM, plans to host OSG SWC early this spring





# SATELLITE PROJECT?

- Possible ASCR proposal (Brian Bockelman)
  - Advanced Resource Provisioning
  - HTC over MPI-centric scheduling
  - Storage



# PERSONNEL

- Brian Bockelman – Executive Team
- Derek Weitzel – Software & Technology
- Marian Zvada – S & T
- Emelie Harstad – User support
- Garhan Attebury – Tier2, Gratia
- Carl Lundstedt – Tier2, Tier3
- David Swanson – HCC

