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# XSEDE

Extreme Science and Engineering  
Discovery Environment

## XSEDE Update: Fall 2017 CASC Meeting

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# A few things that have happened since my last update...

- Last update: Fall 2015
- Since then (some high order administrative bits)
  - XSEDE 2.0 awarded @ \$110M
    - start date: September 1, 2016 (two month delay from plan)
    - end date: August 31, 2021
    - fully implemented planned organizational changes in July 2016
  - first Annual Report and Program Plan (PY7) submitted in May 2016
  - XSEDE 1.0 Final Report submitted
    - <http://hdl.handle.net/2142/96220>
  - first “annual review” in June 2017
    - very positive review; excellent report
  - will have “mid-term review” in January 2018
    - “annual” review still to happen in June 2018

# *Significant Contributions to Community by XSEDE:*

## Supporting the Community

- Annually supporting 15,000 researchers and students via allocated access to resources
  - 6,000 through direct allocations + 9,000 through use by science gateways
  - science gateways allowing many more to leverage XSEDE-allocated resources
  - many more leveraging unallocated services via the XSEDE User Portal
- More than 21,000 publications supported to date since July 2011
  - analysis shows significantly higher citation rate than other publications in the same journals
- Over 15,000 active users of XSEDE User Portal in the past 12 months
- Over 900 proposals for major compute allocations reviewed annually
  - a comparable number of requests for startup and educational allocations
- More than 77,000 user requests addressed to date since July 2011
  - answering questions and resolving technical issues
- To date, completed more than 375 projects that assisted computational research teams
  - users reported an average productivity gain of 14.75 months
  - average three months investment of XSEDE staff time

# Sure, but what *interesting new things* are going on?

- ECSS Affiliates Program Pilot
  - unfunded collaborators in ECSS activities
  - first cohort instantiated as a pilot in July
- Resource Selector to guide proposers to appropriate resources and services
  - address challenges researchers have in identifying the most appropriate resource
  - ...in light of diversifying portfolio of resources
- Community Software Repository:
  - package and distribute community software
  - encourage community contributions
- Offering XSEDE services to other CI providers
  - effort in development
  - still sorting working to understand how to do this out; some thoughts coming up....

# Sure, but what *interesting new things* are going on? (2)

- Begin publishing XDCDB data sets as collections available for 3rd party research
  - regular requests for project data to support research efforts
  - provide predefined data sets; support additional request as able
- Complete update to XSEDE online presence/image refresh
  - make User Portal one-stop location for users of XSEDE resources and services
  - XSEDE impact videos
- Formalized relationships with Software Institutes: SGCI, MolSSI
  - MOU signed between XSEDE and SGCI
  - early discussions with MolSSI
- Some “back end” things
  - review of KPIs/metrics/performance management plan
  - additional reviews
  - articulation of value and impact

# Some Challenges

- Of course, some of the things mentioned
- Biggest challenge currently: LCCF solicitation
  - [no slide content for this part...]

More information at: [www.xsede.org](http://www.xsede.org)

