Welcome!

Sustainable Funding and Business Models for Academic Cyberinfrastructure (CI) Facilities

Workshop II
Thank you!

- National Science Foundation
- Cray
- DataDirect Networks
- Dell
Workshop Goals

• **Good**: Capture key sustainability challenges
  – Take notes!
  – Tell us what you feel are the most important points

• **Better**: Share each others pain
  – It feels good to know we aren’t alone!

• **Best**: Share solutions
  – There are no perfect solutions that work everywhere
  – Sharing what works at your institution provides ideas that may be leveraged by others
10 “Plagues” of CI Sustainability

• Sustainability challenges often feel biblical in proportion
• Just when you thought it was over....
• We don’t have Moses to lead us to the promised land
Water to Blood

• Funding
  – Shrinking budgets
  – Increased competition
  – Changing priorities

• Have we become mundane/non-strategic?
  – How do we remain relevant?
  – What is our value proposition?

• Collaboration is essential
  – We can’t do it alone
  – Leveraging National CI is an important part of the story
Frogs

• Workforce development
  – Educating the workforce
  – Promoting what we do with students
  – Providing stable/interesting positions
Lice

- Measuring return on investment
- Measuring cost avoidance
- National competitiveness
- Economic development
Flies

• Big Data
  – Buzz!
  – Big costs
  – Big opportunities
  – The Best Buy challenge
  – New tools and techniques
Pestilence

• Security
  – Securing our resources
  – Raises costs of doing business
    • Secure data applications
    • Staff and resources to combat hackers
Boils

• Disruptive technologies
  – Cloud
  – New computing technologies
Hail

- Natural disasters
  - Redundancy costs
  - Disaster recovery costs
  - Lost productivity
Locusts

• Users
  – Wants & needs, why split hairs?
  – “Free” is hard to sustain
  – Everyone is top priority
  – Very little pain tolerance
Darkness

• Facilities
  – Power
  – Space
  – Cooling
  – Physical security
  – Connectivity
Death of the Firstborn

• Succession planning
  – Who will fill our shoes?
  – How do we leave our positions better than we found them?
Panel Discussions

- Workshop is being recorded
- 10-15 minute “Lightning talks”
- Meant to prompt discussion/not lecture
- Moderators will:
  - Help panelists be conscious of time
  - May request that a discussion be tabled
- Audience
  - Participate!
  - Introduce yourself when you take the microphone