e-Science Data Environments: A View from the Lab Floor

Stacy Kowalczyk
CNS Open House
November 3, 2011

Developing a Lifecycle for Data

• Antecedents
  – Data Management
  – Metadata
  – Formats
  – Repository Technologies

• Barriers

• Threats
  – Human based threats
  – Technology based threats
Multi-Method Study

• Case studies
  – Semi-structured Interviews with 11 directors of scientific centers or labs
• Broad-base web-based survey
  – 724 completed surveys of recent NSF funded researchers
  – 43 questions
    • 168 numeric and character variables
    • 34 full text elements.
• Grounded theory development

e-Science Data Environments