

# Cyberinfrastructure Breakout

- **Data Product and Exchange Issues**
  - Goal is seamless access to a broad range of EarthScope products
    - Support interdisciplinary science
    - Some in progress
  - Define interface, not the format
  - Need both carrot and a stick to encourage data & product sharing
  - Need to integrate with data generated outside of EarthScope data
  - Evangelize the gospel of open data
- **Data processing Issues**
  - National computer centers should have standard software packages
  - Need to define a set of standard frameworks
  - Need for more software sharing – may need IT support for easy user interfaces
- **E&O Issues**
  - Community education all levels
  - Need for tutorials for nonspecialists
  - Products that can be used appropriately by nonexperts
- **Long term data curation**
- **Vision of virtual institutes to promote collaborations**
- Report needs to endorse cyberinfrastructure as essential to scientific success of Earthscope