Associated Groups in LTER CI Planning
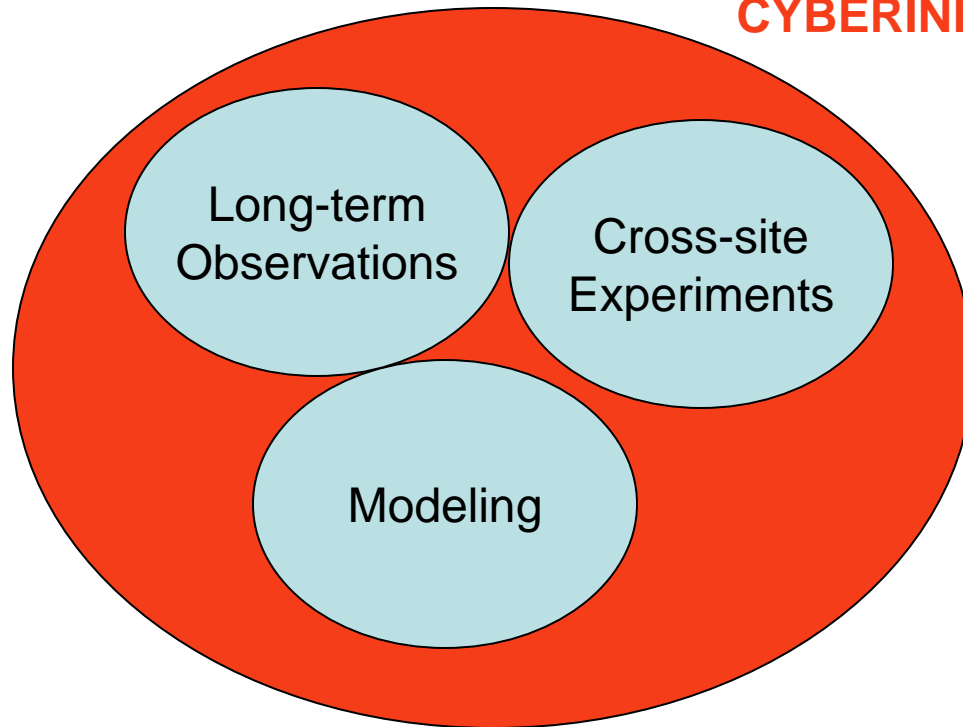
- **Chaitan Baru (GEON/SDSC, NEON)**
- **Kai Lin (GEON)**
- **Bryan Beecher (UM/ICPSR)**
- **Mark Schildhaur (NCEAS)**
- **Chris Jones (PISCO)**
- **Mandy Lane, Herbert Schentz (ALTER-Net)**
- **Bob Cook, Tim Rhyne (ORNL/NASA)**
- **Peter Cornillon, Nathan Potter (OPeNDAP/OGC)**
- **Mark Stromberg (OBFS)**
- **David Maidment (CUAHSI)**
- **Mike Freeman (NBII/NCSA)**
- **Gordon Bonan (NCAR)**
- **George Hurtt (UNH EOS)**
- **Peter Franks (SIO/CCE LTER)**
- **Jennifer Eakins (SIO IGPP, RoadNet)**
- **Michael Piasecki (Drexel OWL, CUAHSI)**
- **Patrick Mulholland (ORNL/ESD – LINX)**
- **Michael Hamilton (CENS/James Reserve, NEON)**
- **Shawn Bowers (DAKS/UCSD)**

LTER Cyberinfrastructure Assessment Survey
(August 2005)

- There is a **very** wide range of capabilities among LTER sites.

- Most sites maintain IM support with 1 FTE, range is 0.5 to 3 from LTER funding.
    - 17 sites obtain external support for IM ranging from 0.25 to 2.5 FTE.

- Implementation of structured metadata (EML) generally strong
    - 25% of sites have little completed

- LTER site data span a wide variety of forms, from streaming sensor data and automated shipboard systems to manual recordings of meteorological data.

- Approximately half of the LTER sites
    - have internet connections 10mb/s or less
    - have field wireless connectivity

- All LTER sites use phone teleconferencing, although only half have video capabilities.

- For a large increase in wireless site data collection, sites say they would need updates to site wireless installation, more storage capacity and more personnel.

- Site and LNO surveys available at "http://lternet.edu/technology"

CYBERINFRASTRUCTURE

Long-term Observations

Cross-site Experiments

Modeling

Organizations Requiring Human Resources

- ## Study Sites
  - Source of long-term data
- ## Multi-site Projects
  - short-term perspective, specialized CI (synthesis projects or cross site experiments)
- ## Multi-site Networks
  - long-term perspective with generalized CI (LTER Network)
- ## Centers
  - Long-term perspective, specialized tasks, software development
- ## Open-source Communities
  - individuals and organizations
- ## Academic Programs
  - Formal engineering and computer science training for ecoinformaticians

Positions
- ecological knowledge engineers
- system administrators
- software developers
- data processors
- program managers
- training coordinators
- Information managers
- information scientists
- data archivists
- web developers
- technicians