Cyberinfrastructure & CyberGIS

- Horizontal scaling, promoted by NSF (Atkins *et al.* 2003) in Office of Advanced Cyberinfrastructure

- Computing, storage, instruments, and people, linked together to improve research productivity

- Linking **middleware**: software as digital plumbing to support interoperability of components

- Geospatial Cyberinfrastructure: CyberGIS project at UIUC (Shaowen Wang; http://cybergis.illinois.edu/)