
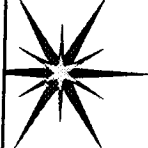

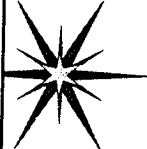



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## OhioView: Distribution of Remote Sensing Data Across Geographically Distributed Environments

June 2, 1998  
Calvin T. Ramos  
LeRC Project Lead  
calvin.ramos@lerc.nasa.gov



## Background

USGS  
EROS Data Center  
Sioux Falls, SD

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NASA Research and Education Network  
(NREN)

|

Bowling Green  
State University

Kent State  
University

NASA Lewis  
Research Center  
Cleveland, OH

Miami  
University

Ohio State  
University

University  
of Cincinnati

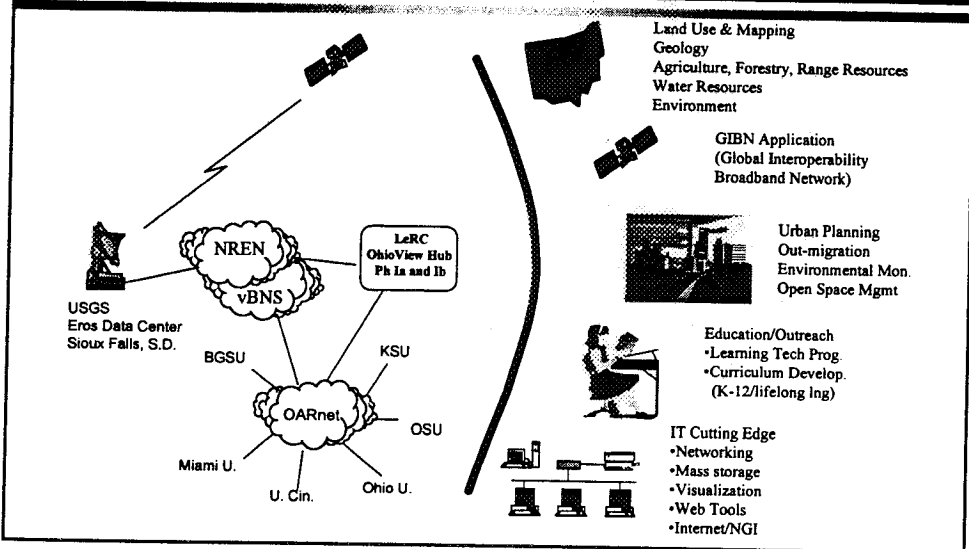
Ohio  
University

### Drivers

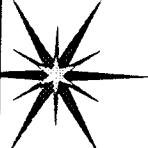

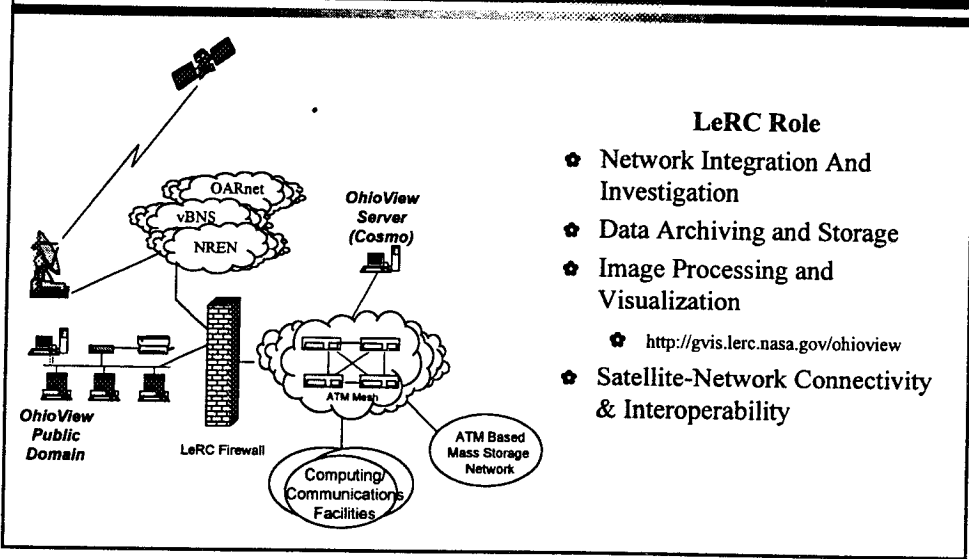
- ◆ Access to earth science products and information
- ◆ Application of the next generation of satellite data
  - ◆ EOS Am-1 and LandSat 7
- ◆ Unique partnership between the science and library communities in the State of Ohio

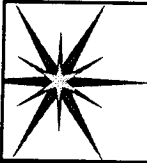
# High Level Architecture, Technologies & Applications



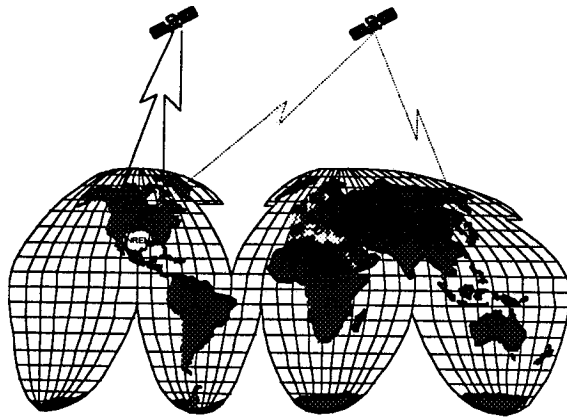


# LeRC Internal Architecture & Role

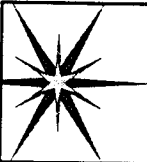






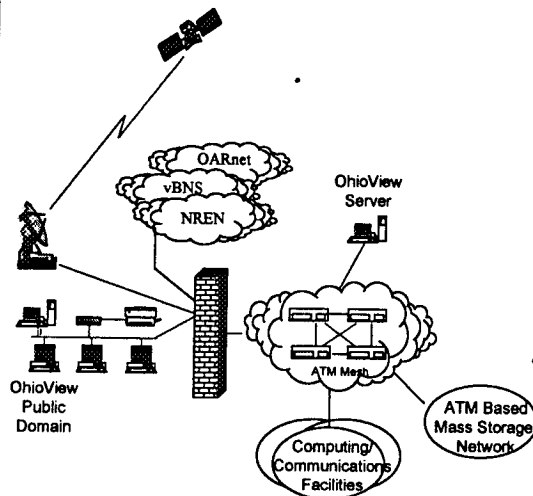
## Potential GIBN Interconnect



- ✧ GIBN Experiment Augmentation
- ✧ Processing of ASTER Data
- ✧ Address hybrid interoperability issues


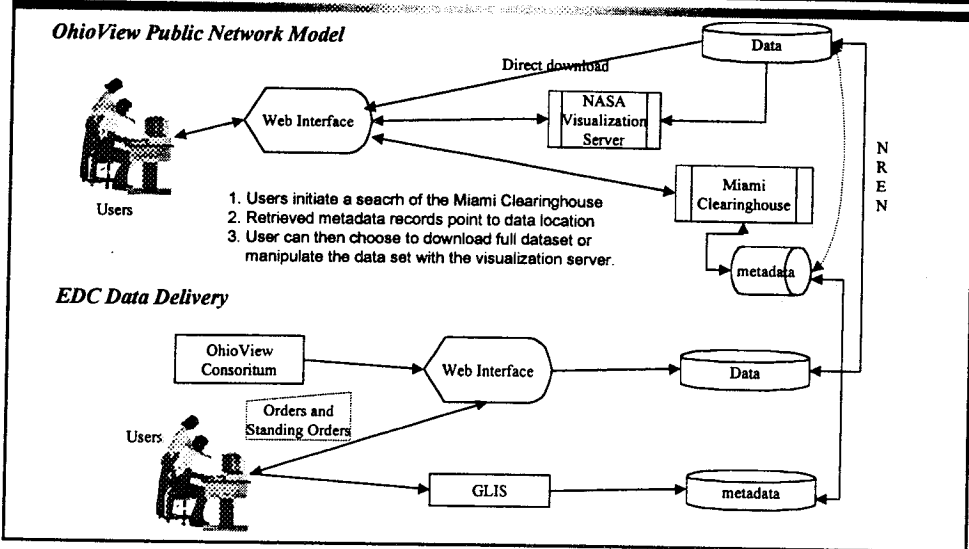


## Potential Areas of Network Investigation & Research


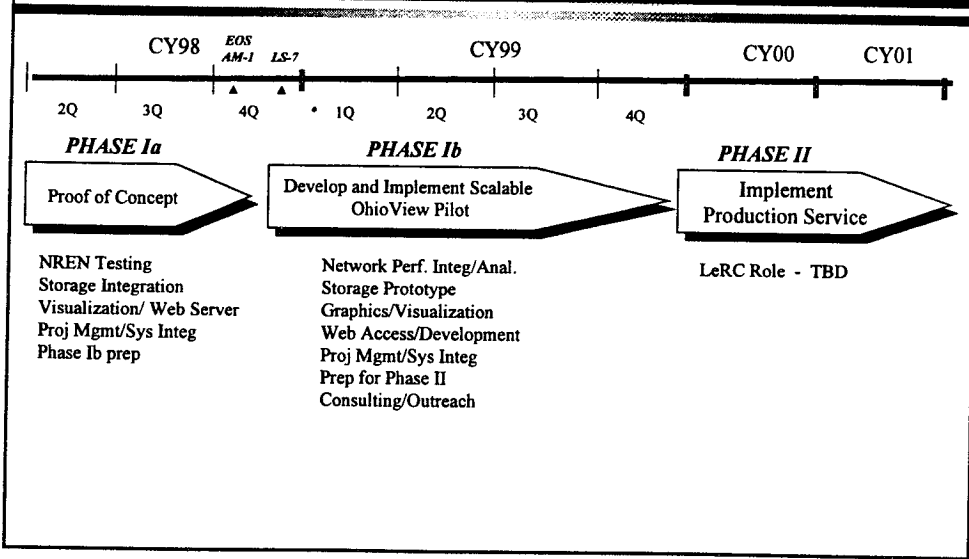


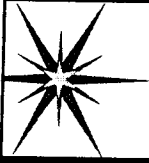
- ✧ Wide Area Multicasting
  - ✧ Terrestrial
  - ✧ Satellite
- ✧ Security
  - ✧ Mitigate LeRC Risks
  - ✧ Data Owner Protection
  - ✧ Emerging Products/Schema
  - ✧ Security Policies
- ✧ Quality of Service
  - ✧ Background experiment
  - ✧ Potential Vendor Collaboration

# Draft of OhioView Data Model

# LeRC Strategy/Roadmap



## Summary



- LeRC playing a key role
- OhioView - a potential national model
- Complex - both technically and politically
- Great value to broad community
- Wide application of the next generation of satellite data
- Unique partnership between the science, library, and state/federal communities in the State of Ohio