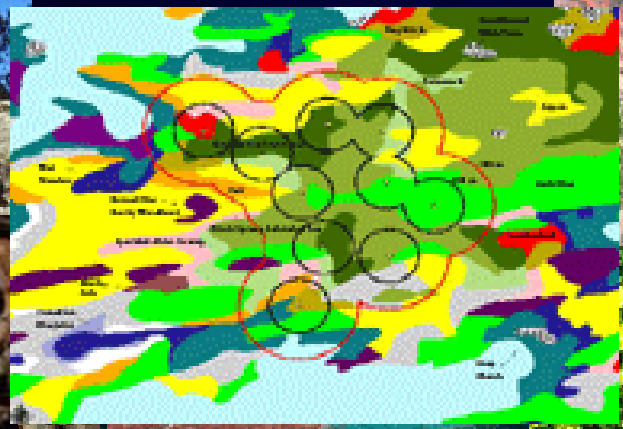
Enterprise GIS (E-GIS) in USGS

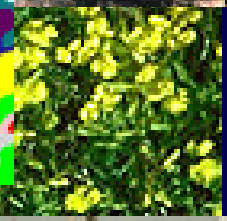
Global change research

Wildlife habitat management



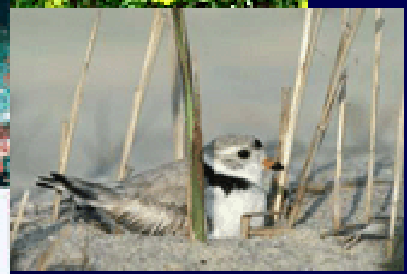
Fire management and response

Adaptive management



Invasive species monitoring and management

Conservation of biological diversity



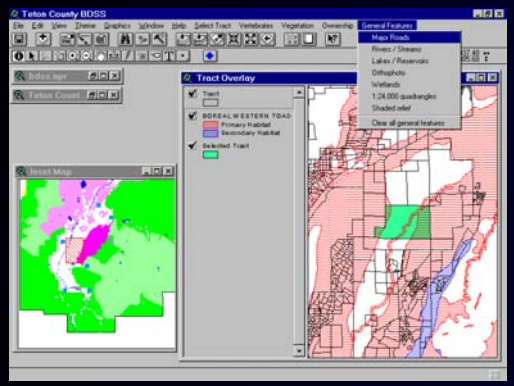
Endangered species management

Watershed analysis

…tied to the earth

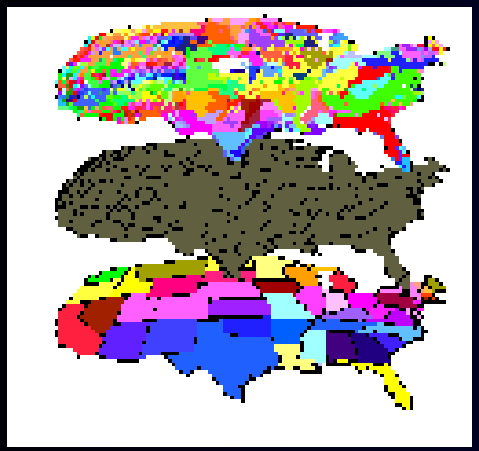
take advantage spatial component . . .

Data, Tools, Services, & Support

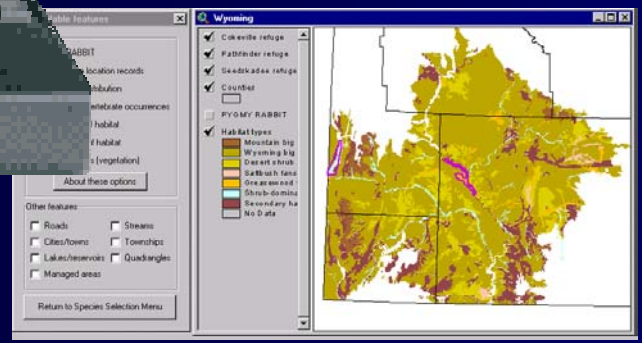


Decision Support Systems

Mobile GIS



Data and Information



applications

difference between . . .

Project vs Enterprise GIS

- **Project GIS**
  - Short term or limited scope analysis
  - Limited access to software tools
  - **Disparate datasets collected and managed in ad hoc manner**
    - **Specific projects**
    - **Departmental functions**
  - Limited interaction with other organizations internal/external
  - Lack of institutional knowledge capture

- **Enterprise GIS**
  - **Spatial operations become fundamental part of organization's infrastructure/operations**
  - Data managed in hierarchical fashion
    - Institutional
    - Departmental
    - Derived datasets
  - Data clearinghouse provides access to all organizational data resources
  - Database capture of analysis and findings across institution

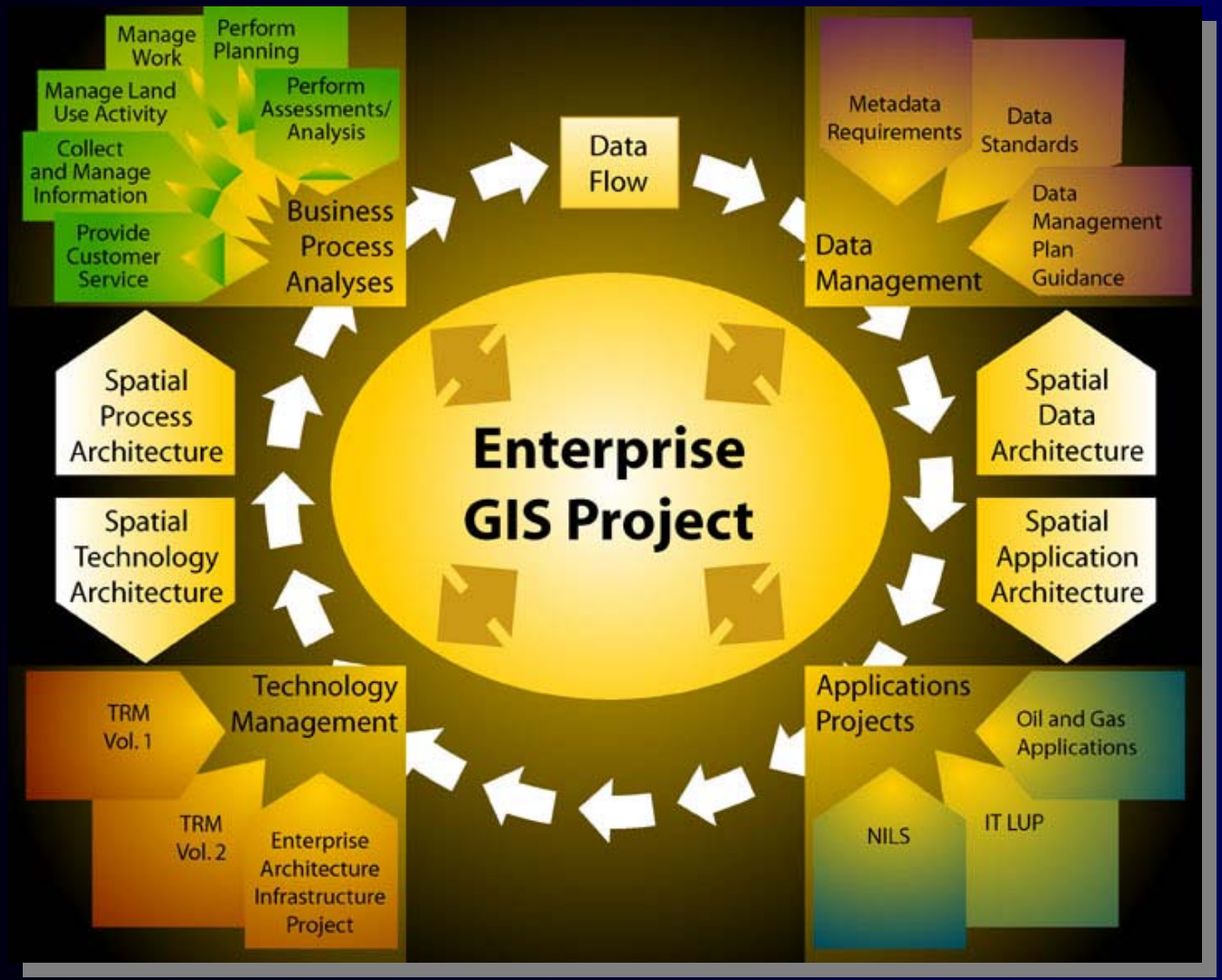
What Is Enterprise GIS?

- The total of coordinated gis efforts and its federated systems working together to support and promote coordinated geospatial development and access across organizational boundaries

- Centrally coordinated and managed GIS within an organization using a distributed computing environment

Enterprise GIS

Integral to organization's business practices



EGIS can mean a change in the "corporate culture"

USGS already doing "EGIS –like" programs

- Enterprise Web
- National Map
- Seamless Server, GEODE, IMS, data streaming of NWIS/STORET
- GEOMAC
- GIPO (Geographic Information Program Office)
- EGOV: Geospatial One Stop

Activities of USGS E-GIS "Tiger Team"

Reston

May 1, 2002

activities

- **Definition -** "What does E-GIS mean to USGS"
- **Oversight / Planning**
- **Awareness**
- **Collaboration**

activities

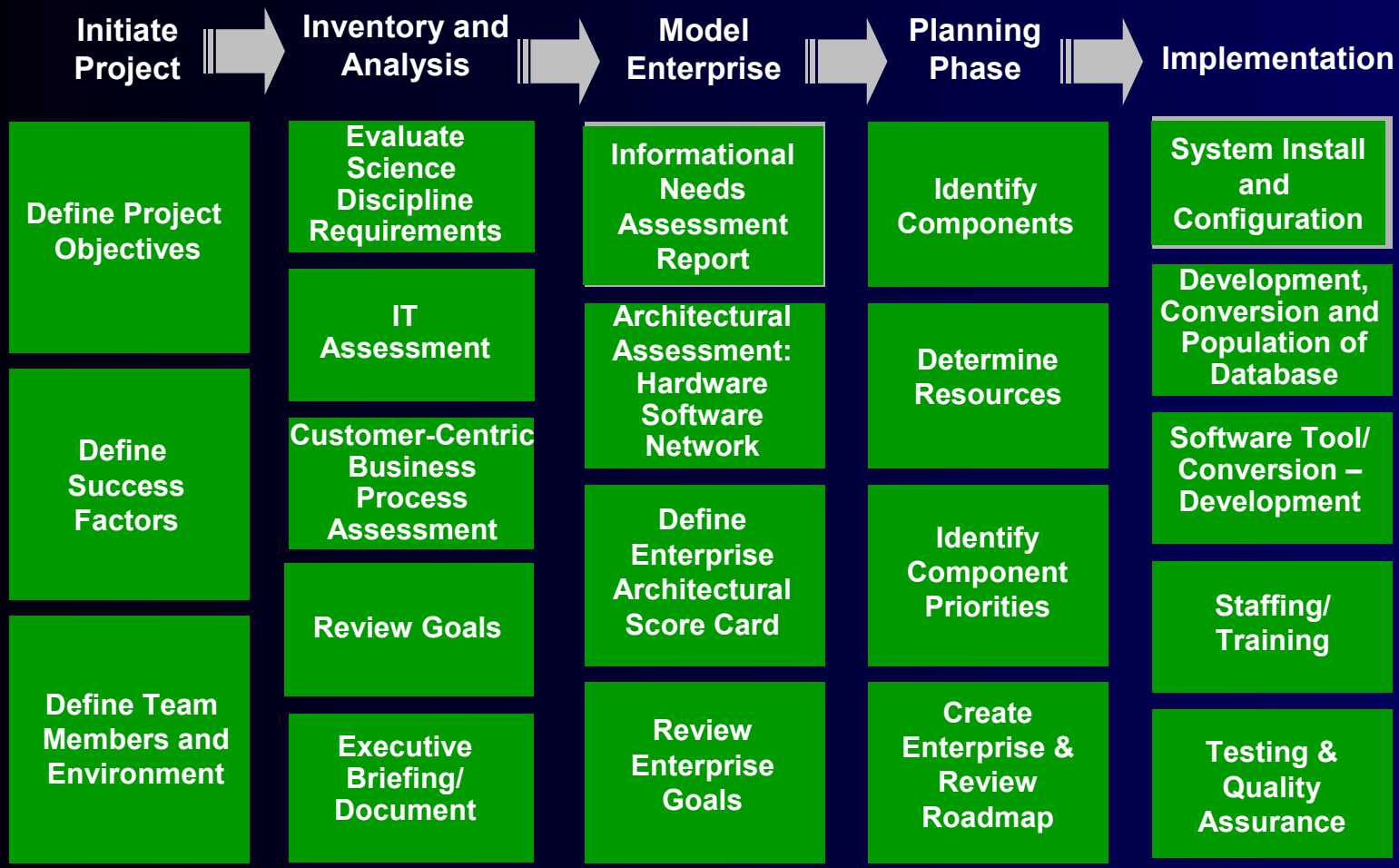
- **Definition** "What does E-GIS mean to USGS"
  - Hold initial team meeting
    - develop charter / vision
    - scope - preparing for implementation initiative starting in FY03
  - Establish Communications
    - "quickplace"
    - frequent meetings, telecons
  - Identify USGS Business practices
  - Holding preliminary "needs" meetings

    (understanding / training for TT members)

activities

- **Oversight / Planning**
  - Preparing for FY'03 E-GIS Implementation Initiative
  - Contractor to facilitate - Orkand
  - Established framework of the implementation process

E-GIS Implementation Process



activities

- **Awareness**
  - E-GIS “fact sheet”
  - web site - http://egis.usgs.gov
  - Cyber seminars
    - Early for corporate “buy in”
    - Later to report results of "needs" and "plan"
  - USGS E-GIS exhibit for ESRI Conference poster night
  - PPT for meetings attended by E-GIS TT members

activities

- **Collaboration**
  - Team member from BLM
  - Working with other tiger teams
    - Telecon presentations
  - Working with other Bureaus
    - establish DOI E-GIS group
    - Enterprise GIS software licensing
  - Working with DOI Information architecture effort: GIS Domain Team

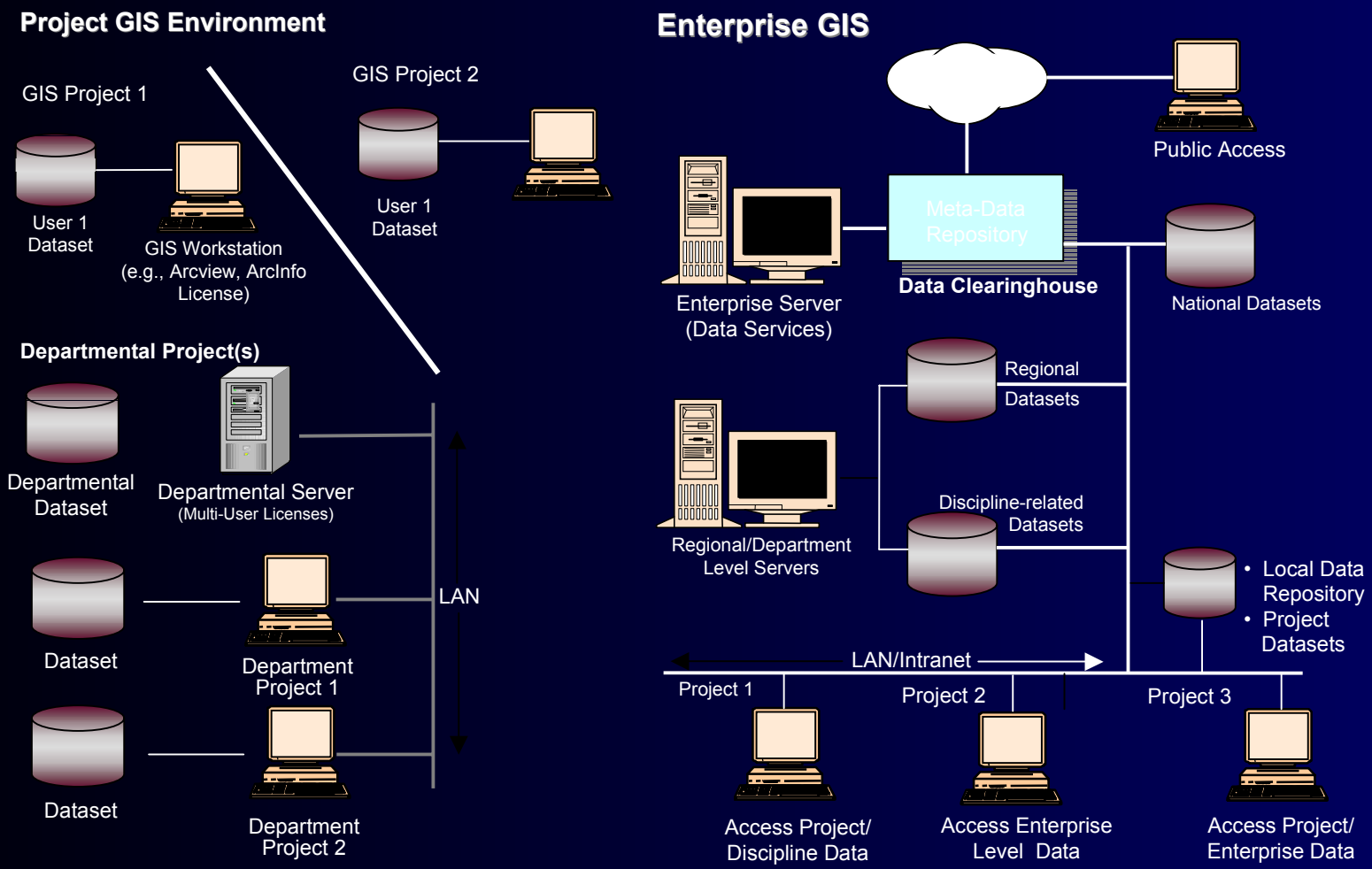
last thoughts . . .

Vision: Enterprise GIS provides ready access to spatial data, information, and technology wherever and whenever needed.

Enterprise GIS will change the "way we do business"

the end

Project vs Enterprise GIS



Why Enterprise GIS?

- **Time to solve a problem will be tremendously reduced**
  - **on-demand access to geospatial data**
  - **accessed and used over web, from multiple servers (without downloading)**
  - **Enhanced coordination between science disciplines & offices**
  - **Better communications with gov't agencies and the public**