

RECLAMATION

Managing Water in the West

Enterprise Geospatial Activities in the Bureau of Reclamation Mid-Pacific Region

Toward an Organizational Nervous System??

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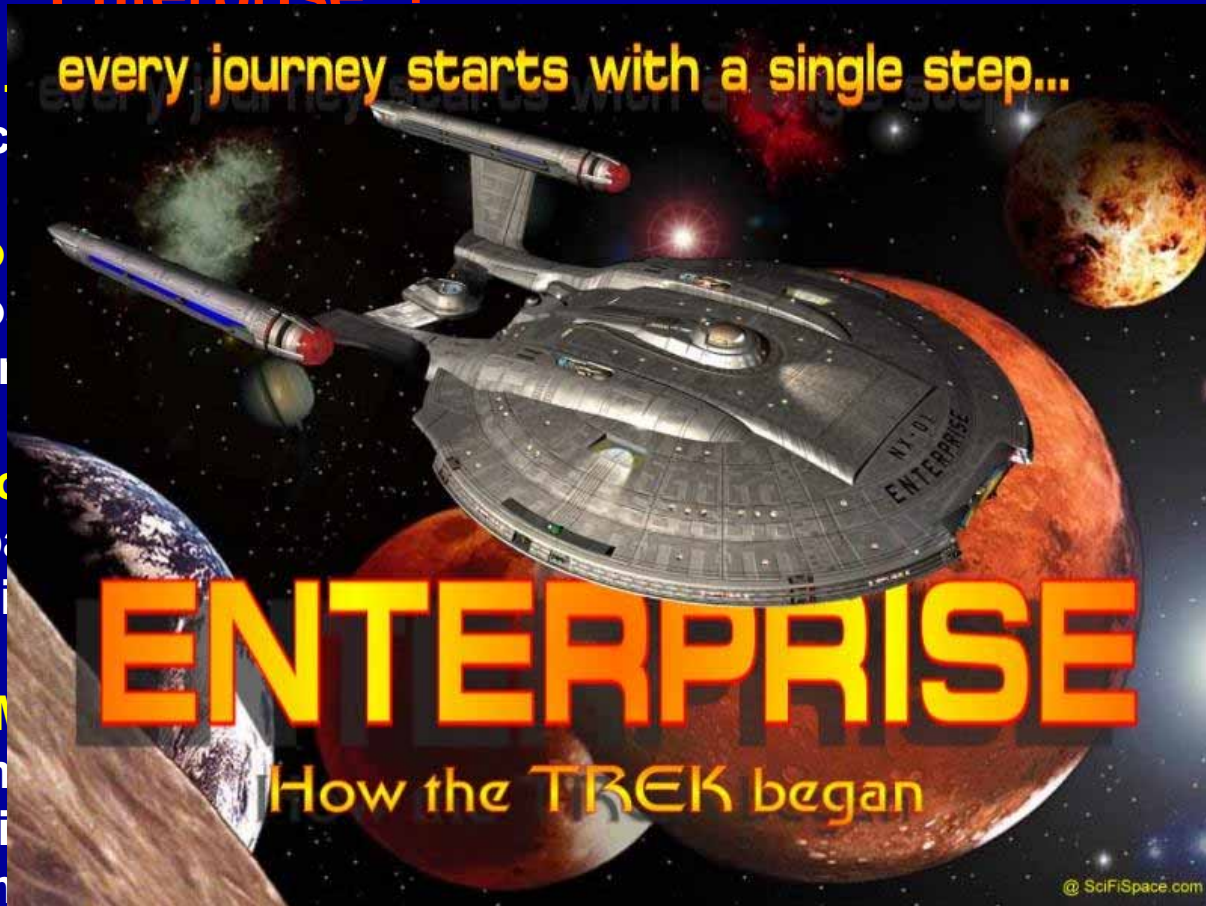


U.S. Department of the Interior
Bureau of Reclamation

Enterprise Geospatial Activities

What is “Enterprise”?

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- Princeton Purpose Reading
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Enterprise Geospatial Activities

Organizational Hierarchies

- Project-Centric Workgroups –

Central Valley Project, Folsom Project, Sediment Project,
Fish Habitat Project, Rehabilitation Project, Construction Project, etc

← PROJECTS

- Office Workgroups – Office Enterprise Efforts

Regional Offices – Engineering, Resources, Planning
Environmental, Archaeologic, etc.

Area/Field Offices – project and needs

Office-based Projects

← PROJECTS

- Bureau/Regional Workgroups – Bureau Enterprise Efforts

Mid-Pacific Region, Pacific Northwest, Lower Colorado, Upper
Colorado, Great Plains, Technical Service Center

Bureau/Regional Projects – NDSI, BORGIS, etc.

← PROJECTS

- Department Workgroups – example Department of Interior

BIA, BOR, FWS, NPS, USGS, etc

Enterprise Geographic Information Management (EGIM)

Geospatial Blueprint Project/Geospatial Lines of Business (GeoLOBs)

Enterprise Architecture Project

← PROJECTS

- Agency Workgroups

FGDC, DOI, EPA, USDA, etc

Geospatial Lines of Business (GeoLOBs)

Enterprise Geospatial Activities

Funding, Coordination, Activities, Deliverables

- Project-Centric Workgroups –

Funding	=	DIRECT
Coordination & Communication	=	SIMPLE
Activity for Project	=	DIRECT
Deliverables	=	SPECIFIC

COMMON
ELEMENTS
PROMOTED

- Office Workgroups – Office Enterprise Efforts

Funding	=	SEMI-DIRECT
Coordination & Communication	=	MORE COMPLEX
Activity to Office/Project	=	SEMI-DIRECT
Deliverables	=	BROAD

COMMON
ELEMENTS
PROMOTED

- Bureau/Regional Workgroups – Bureau Enterprise Efforts

Funding	=	VARIOUS, INDIRECT, INCONSISTENT
Coordination & Communication	=	COMPLEX, MORE MANAGERS
Activity	=	BROAD, SCOPING, CRISIS
Deliverables	=	QUESTIONABLE

COMMON
ELEMENTS
PROMOTED

- Department Workgroups – example Department of Interior

Funding	=	INDIRECT, UNFUNDED MANDATES
Coordination & Communication	=	COMPLEX, TOO MANY MANAGERS
Activity	=	BROAD, FOCUS?/DISTRACTIONS
Deliverables	=	MARGINAL

COMMON
ELEMENTS
PROMOTED

- Agency Workgroups

Let's not go here...

Enterprise Geospatial Activities

Services, Mission Goals, Lines of Business

- Project-Centric Workgroups –

Services are Direct - Best on-the-ground activities

Mission goals specific to the project on the ground

Lines of Business are directed to the project

- Office Workgroups – Office Enterprise Efforts

Services are support Based

Mission goals effectively administered

Lines of Business determined here

- Bureau/Regional Workgroups – Bureau Enterprise Efforts

Services between Bureaus/Regions Effective and to Office/Projects Supportive

Mission goals meet Bureau/Regional needs

Lines of Business simplified

- Department Workgroups – example Department of Interior

Support indirect

Mission goals take on global elements

Lines of Business over simplified, ineffective to staff on the ground

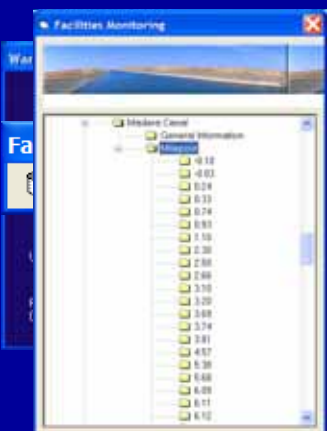
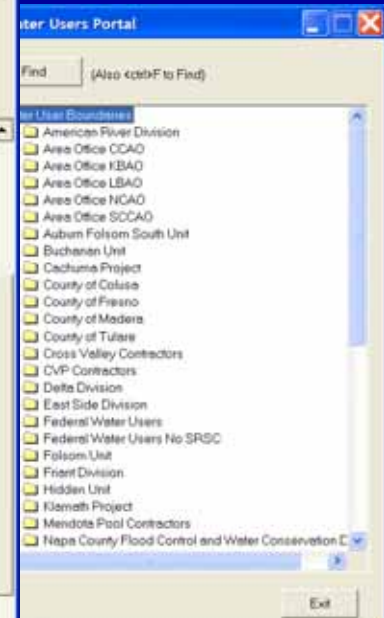
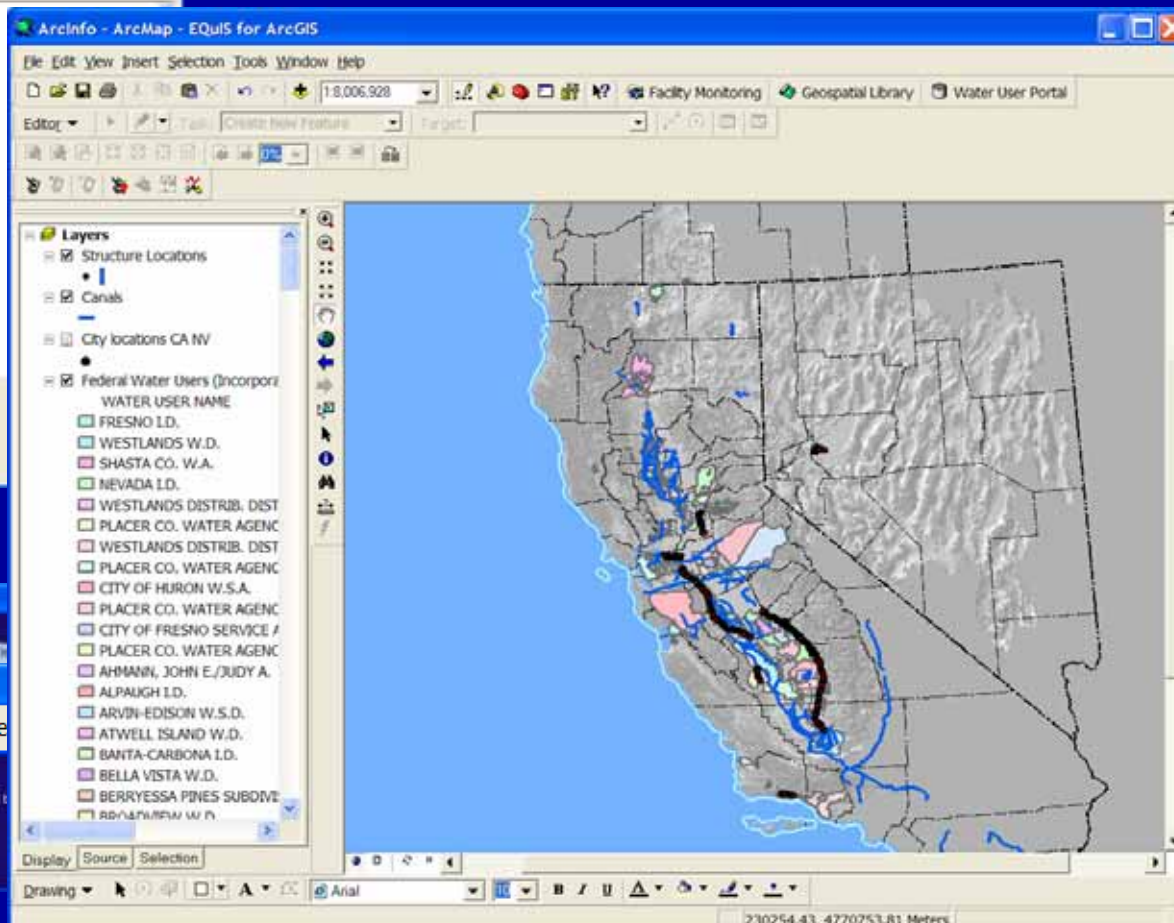
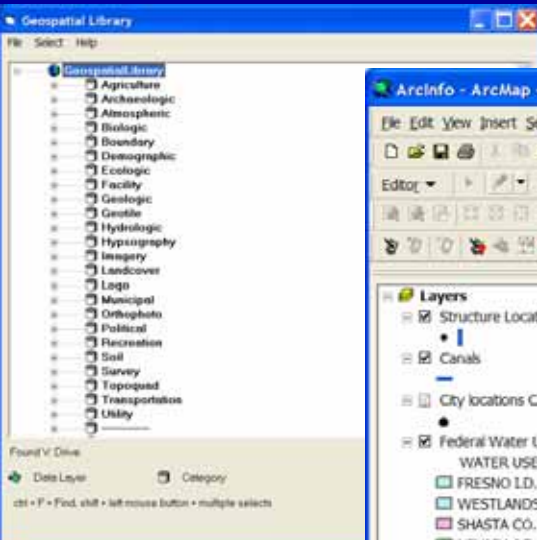
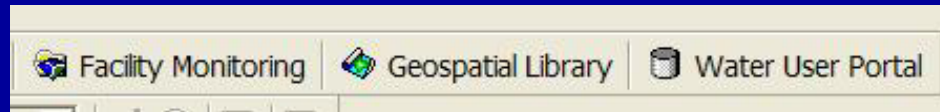
- Agency Workgroups

Again, let's not go here...

Enterprise Geospatial Activities
Bureau of Reclamation Mid-Pacific Region
Office, Bureau/Regional Level Coordination

- **Geospatial Servers, Library, & Interface in every Area Office:**
12 Servers throughout Region – from 1 to 12 in 6 years!
Missing RDBMS & SDE.....File based system still....**Arrgh!**
- **Software Deployment & License Management Centralized:**
GIS, GPS, Remote Sensing, Compression Utilities, Extensions, etc.
- **Stewardship Database Identification, Geodatabase Design, & Coordination:**
Land Ownership, ROW, Easements, Water Districts (Service Areas, Boundaries, Spheres of Influence), Place of Use, Facilities & Infrastructure, Compliance & Monitoring, Facility Safety, Archaeological Data, etc.
- **Non-Stewardship Database Integration, Support, & Maintenance:**
DOQQ, DRG, NHD, County Parcels, Landuse/Cover, NAIP, WBD, etc.
- **Training & Tool Development Directly Support Field Staff:**
Geospatial Library, Water Users Portal, Facility Monitoring, etc.
- **Direct Project Support & Coordination** – CAN CONSUME 100% TIME!

Enterprise Geospatial Activities Office, Bureau/Regional Level Coordination Integrated Geospatial Tools



Enterprise Geospatial Activities

Bureau of Reclamation Mid-Pacific Region

Office, Bureau/Regional Level Coordination

- Geospatial Servers, Library, & Interface in every Area Office:

Utilization of GIS	in 2000 ~ 3%	in 2006 ~ 35%	Future – 80% +
Available Data	in 2000 ~ 80 MB	in 2006 ~ 1 TB	Future – Depends

- Software Deployment & License Management Centralized:

Integration with DOI Security Requirements, Centralized Deployment, etc.

E-Government Act – Federal Information Security Management Act (**FISMA**)

Certification & Accreditation (**C&A**)

Security Standards - National Institute of Standards & Technology (**NIST**)

- Stewardship Database Identification, Geodatabase Design, & Coordination:

Water Districts (Service Areas, Boundaries, Spheres of Influence) – **under way**

Place of Use – **under way**

Land Ownership – **under way**

Facilities & Infrastructure – **under way**

Compliance & Monitoring – **under way**

Facility Safety – **under way**

Archaeological Data – **under way in coordination with National Park Service**

Enterprise Geospatial Activities Bureau of Reclamation Mid-Pacific Region Department Level Coordination



- Enterprise Geographic Information Management (EGIM):

DOI Initiative, Strategic Leadership, Standardization, Implementation, Policy Direction, Programs, Funding, Organizational Needs, Integration of Geospatial Technologies, etc.

<http://www.nps.gov/gis/egim/>

- Geospatial Modernization Blueprint:

Spatially Enabling DOI Business

Recommendations – NILS SLA's, Alignment of Data Acquisition, Designate Stewardship, Enterprise License Agreements, Governance, Federal Enterprise Architecture, etc.

Shares many common elements with GeoLOB

<http://www.fgdc.gov/fgdc-news/mbt-final-charter-021306>

Enterprise Geospatial Activities Bureau of Reclamation Mid-Pacific Region Agency Level Coordination

- Geospatial Line of Business (GeoLOB) – Presidential Initiative:

Data Call

OMB & GSA Launched GeoLOB in March 2006

Cost Effectiveness – utilization, reuse, and sharing technology & information

<http://www.fgdc.gov/fgdc-news/geolob>

Request for Information – commentary on the following:

Data theme questions – OMB A-16 list of data – geodetic control, ortho, elev/bathy, trans, govt units, etc.

Governance Models for coordination

Change management issues

Cultural impediments & training

NSDI cost/benefits

Top 3 factors for coordination/Top 3 risks in coordination

Key performance indicators

Competition vs. innovation and optimization

Enterprise Geospatial Activities

Questions?

Enterprise is in the eye of the beholder...

How is the nervous system in your organization?