

June 2002

Bay Area GIS Survey Final Results



Bay Area Automated Mapping Association



Metropolitan Transportation Commission

Starting Your GIS Mapping Project

- | | |
|------------------------|----------------------------------|
| ■ <i>"I Need Data"</i> | ■ <i>"Where Can I Get Data?"</i> |
| Quick | Who to contact? |
| Inexpensive | What do they have? |
| Current | How good is it? |
| Accurate | Terms? |
| Relevant | Cost of acquisition? |

ANSWER:

METADATA CATALOG

A Metadata Catalog Near You!

- **NSDI** – National Spatial Data Infrastructure
- **FGDC** – Federal Geographic Data Committee
Metadata Standards
Metadata catalog: a network of **NODES**
- **CERES** – State of California Resources Agency
statewide NSDI-node *metadata catalog*
<http://ceres.ca.gov/catalog>

Bay Area GIS Metadata Situation: Creation, Usage, Maintenance

- How many Bay Area agencies *have, create, or maintain* GIS map/data?
- How many *create* GIS metadata?
- How many *maintain* GIS metadata?
- How many have *uploaded* GIS metadata into *CERES metadata catalog*?

WHY NOT?

- How Can We Improve This Situation?

Metadata Creation and Implementation Assistance

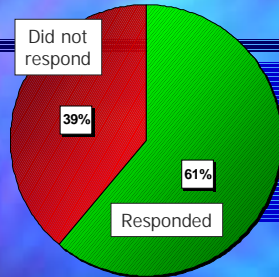
- **Survey** creation/use of GIS metadata in the Bay Area
- **Report** state of GIS metadata
- **Create** "starter" Metadata Catalog records
- **Upload** records into CERES Metadata Catalog
- **Encourage & Educate** maintenance and use of the metadata catalog

Sponsors

- Metropolitan Transportation Commission (MTC)
- Bay Area Automated Mapping Association (BAAMA)
- GIS Center at U.C. Berkeley (GISC)
- Association of Bay Area Governments (ABAG)
- Caltrans District 4

+ ***"Don't Duck Metadata" Grant from FGDC***

Success of Outreach Efforts



Bay Area organizations contacted (178)

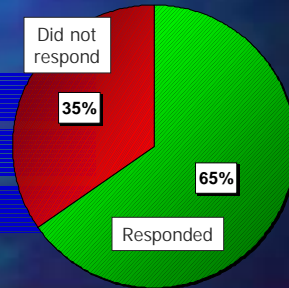
61% - Organization responded (109)

39% - Organization did not respond (69)

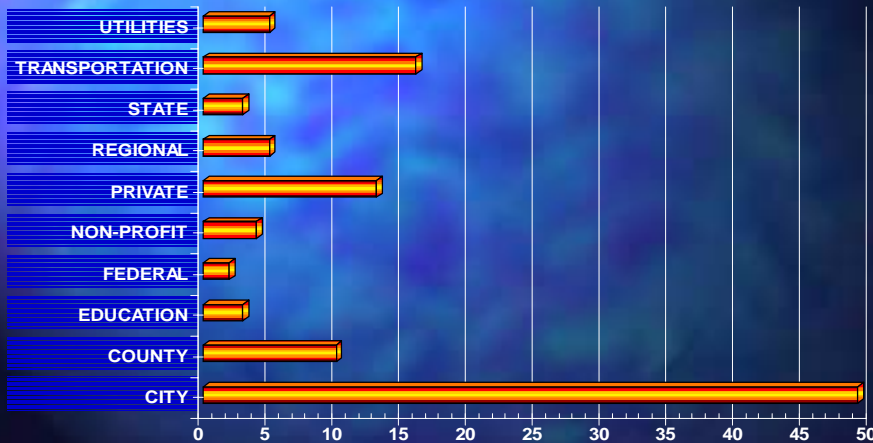
Bay Area cities contacted (75)

65% - City responded (49)

35% - City did not respond (26)



Respondents (110) By Category



Respondents (109) By Category

CITIES

City of Alameda
 City of Albany
 City of Belmont
 City of Belvedere
 City of Benicia
 City of Brentwood
 City of Burlingame
 City of Campbell
 City of Clayton
 City of Concord
 City of Cupertino
 Town of Danville
 City of Daly City
 City of Dixon
 City of Dublin
 City of Foster City
 City of Gilroy
 City of Healdsburg
 Town of Hillsborough
 City of Livermore
 City of Los Altos
 Town of Los Gatos
 City of Martinez
 City of Menlo Park
 City of Millbrae
 City of Milpitas
 City of Mountain View
 City of Napa
 City of Newark
 City of Oakland
 City of Oakley
 City of Palo Alto
 City of Pinole
 City of Richmond
 City of Rohnert Park
 City of San Carlos
 City of San Jose
 City of San Leandro
 City of San Pablo
 City of San Rafael
 City of Santa Clara
 City of Santa Cruz
 City of Santa Rosa
 City of Saratoga
 City of Vacaville
 City of Walnut Creek

COUNTIES

Alameda County
 Contra Costa County
 Marin County
 Napa County
 San Mateo County
 Santa Clara County
 Santa Clara County
 Solano County
 Sonoma County
 City/County of San Francisco

REGIONAL AGENCIES

ABAG
 BAAQMD
 East Bay Regional Parks
 Metropolitan Transportation Comm.

STATE AGENCIES

CA Regional Water Quality Control Board, SF Bay Region
 Caltrans, District 4
 Office of Statewide Health Planning and Development

NON-PROFIT ORGANIZATIONS

BASIC
 Bay Model Association
 GreenInfo Network
 Western Disaster Center

TRANSPORTATION AGENCIES

AC Transit
 BART
 CCCTA
 CCTA
 ECCTA
 LAVTA
 Port of Oakland
 SamTrans
 SCTA
 SF County Transp. Authority
 SF Municipal Railway
 VTA
 Water Transit Authority
 WestCAT

EDUCATIONAL/RESEARCH INSTITUTIONS

Chabot Space & Science Center
 Lawrence Berkeley National Lab
 Merritt College

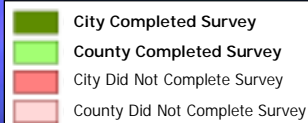
UTILITIES

Alameda Power & Telecom
 Marin Municipal Water District
 Modesto Irrigation District
 Moraga-Orinda Fire
 Santa Clara Valley Water District
 San Ramon Valley Fire Protection District

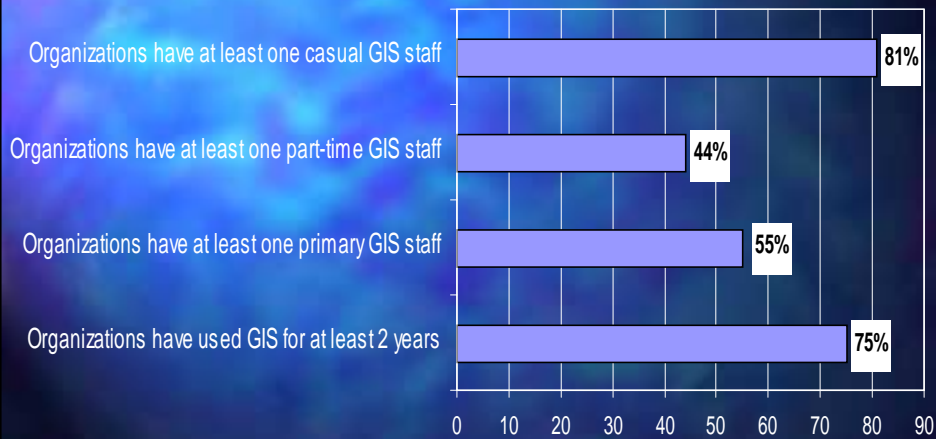
PRIVATE ORGANIZATIONS

13 Companies

Response from Cities and Counties



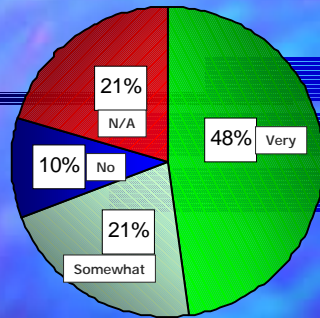
Background Information: GIS Applications



Background Info: Primary GIS Software Used

GIS Vendor	Use by Respondents	Software Products Listed on Surveys
ESRI	64%	ArcView 3x, ArcInfo, ArcGIS, Spatial, ArcIMS, SDE
Autodesk	10%	Autodesk, AutoCAD Map, MapGuide
Intergraph/ Bentley	6%	Intergraph MGE, GeoMedia, Microstation Geographics
MapInfo	1%	MapInfo
SmallWorld	1%	GE SmallWorld
Other	4%	GENTRY Sytems "GENMAP", Encompass, Tp+/Viper, Relational database
No Response	14%	

Metadata Awareness & Use



Are you Familiar with Metadata?

69% - Very familiar or somewhat familiar

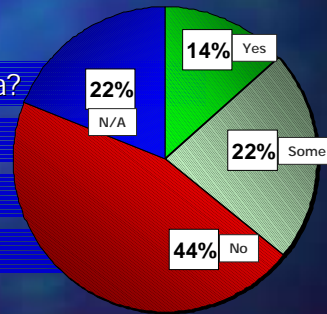
10% - Not familiar

Do You Create or Maintain Metadata?

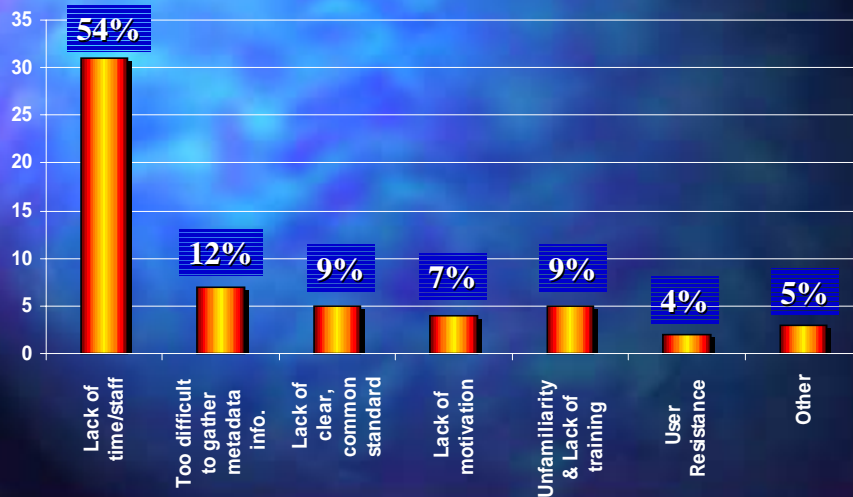
14% - Yes

22% - Some

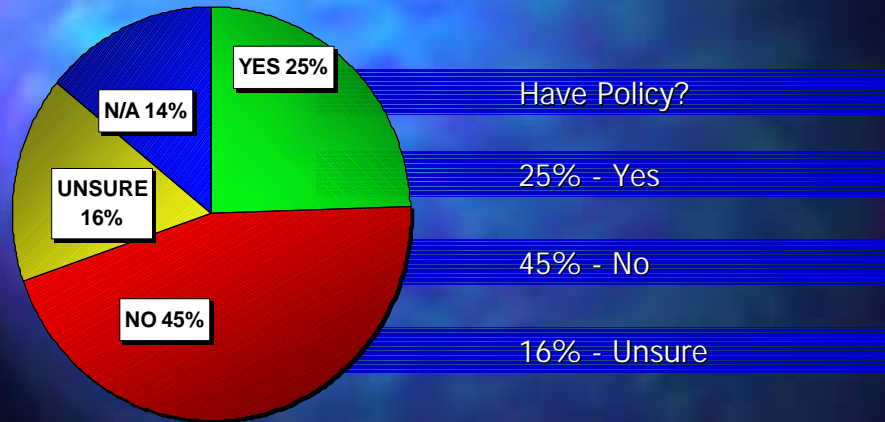
44% - No



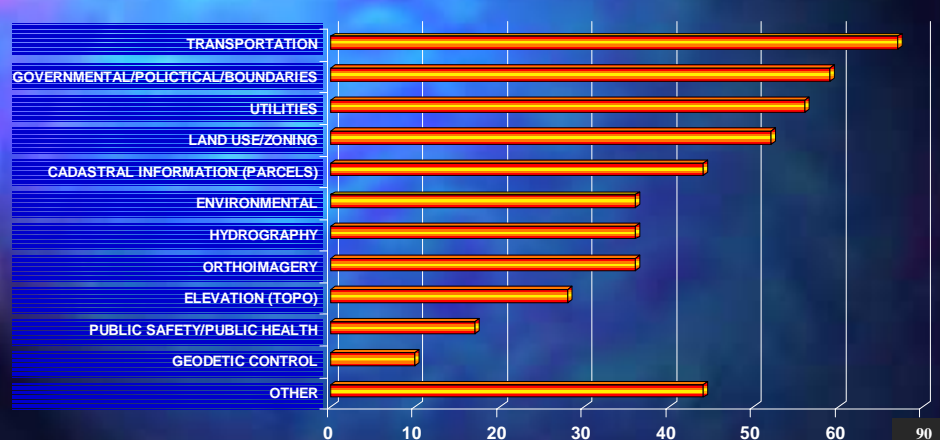
What are the Hurdles Regarding Metadata Creation/Maintenance?



Do You Have A Data Distribution Policy?

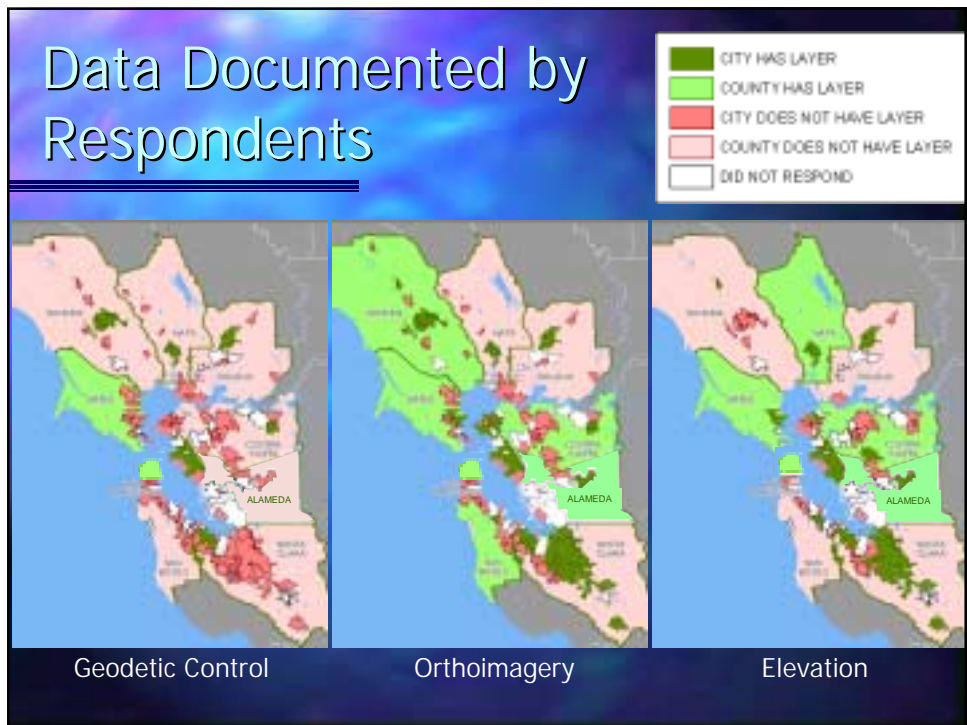


Type Of Data Documented by Respondents (569 Total; 514 uploaded to CERES)

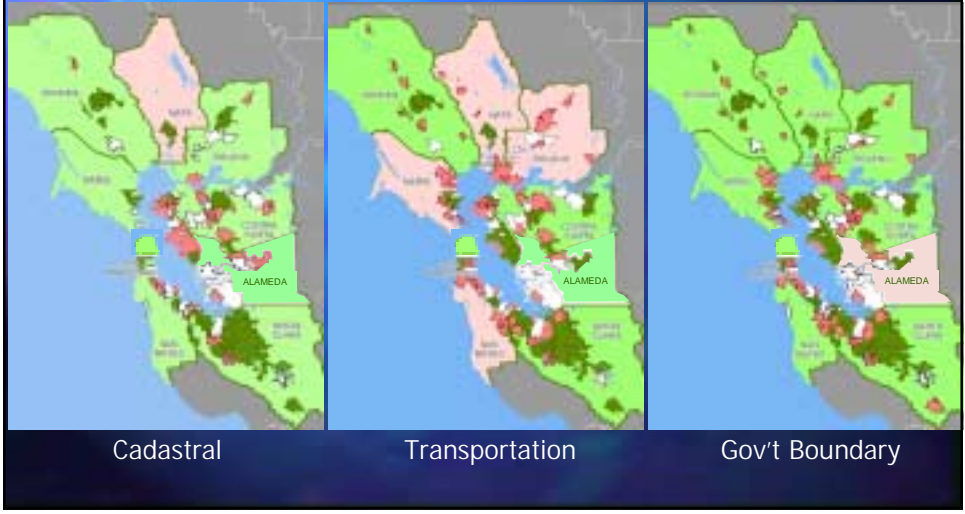
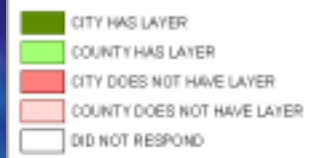


Bay Area County	Status of County-Wide Framework Data						
	Geodetic Control	Orthoimagery	Elevation	Transportation	Hydrography	Gov. Units	Cadastral
Alameda	X	✓	✓	✓	✓	X	✓
Contra Costa	✓	✓	✓	✓	✓	✓	✓
Marin	✓	✓	✓	✓	✓	✓	✓
Napa	X	✓	✓	Under Development	✓	✓	✓
San Francisco	✓	✓	✓	✓	✓	✓	✓
San Mateo	✓	✓	✓	✓	✓	✓	✓
Santa Clara	?	?	?	✓	?	✓	✓
Solano	X	X	X	✓	✓	✓	✓
Sonoma	?	✓	?	✓	?	✓	✓

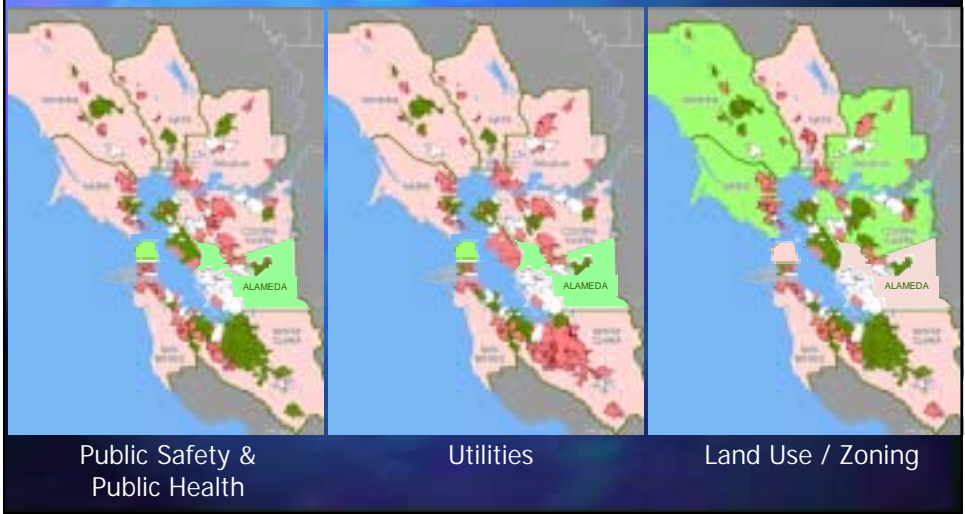
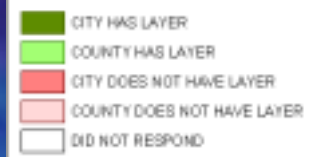
✓ County-wide data exist
 X County-wide data do not exist
 ? Unknown – information was not provided to the authors of this report



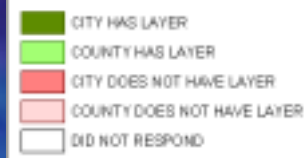
Data Documented by Respondents



Data Documented by Respondents



Data Documented by Respondents



Hydrography



Environmental

We Know Data Exists ... Now What?

- Upload BAAMA metadata to CERES metadata catalog
- <http://ceres.ca.gov/catalog/>
- Added 109 catalogs to CERES
- Added 514 datasets to CERES
- Provide respondents with CERES password to edit/update their data

Conclusions, Questions & Discussion

- Why *create* metadata for your GIS database?
- Why *maintain* your metadata?
- Why not *upload* into the CERES Metadata Catalog?
- It's the *right* thing to do!

For More Information

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