San Diego Regional GIS Council

Local Agency GIS Survey
2006

January, 2007

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SDSU Research Foundation
Homeland Security
The San Diego Local Agency GIS Survey was conducted in the Fall of 2006 for the San Diego Regional GIS Council (SDRGC). The Council serves as a forum for San Diego region public agencies to develop partnerships, and share information, ideas, strategies, and solutions regarding the management of GIS and related technologies. The Council meets quarterly with the goal of providing more efficient and effective service to member agencies and their constituents.

For the survey, each agencies GIS manager was asked to fill out an on-line survey that asked questions regarding their agency’s Geographic Information System (GIS), staff and budgeting, functions and applications, internet and intranet mapping, the data each agency maintains, computer aided dispatch systems, and coordination and collaboration.

The purpose of this survey is to provide an understanding of GIS in the region. Past surveys were conducted in 1995, 1997, and 2001. The surveys have helped to identify the capabilities and knowledge available at each agency, create an understanding of the nature of digital data maintained by public agencies in the region, and provide information about digital data sources. In addition, the consecutive nature of the surveys offers information on how the use of GIS in the region has grown and transformed over the years.

A secondary purpose of this survey is to build a regional GIS baseline for homeland security. The baseline will help to focus the GIS needs for homeland security and guide decisions for the region.

The survey has changed and expanded over the years to accommodate the ever changing and expanding technologies associated with GIS. Thirty-four agencies provided information for this survey. Only two agencies responded that they were not current users of GIS, these agencies were asked to only provide information about implementing a GIS and no other questions. Two other agencies only provided contact information. Agencies were not required to answer every question so the response counts for each question may be different. Appendices have been attached that summarizes some of the questions with categorized list or tables that provide information on the following:

- GIS Software used
- Databases used in conjunction with GIS
- Operating systems used in conjunction with GIS
- Programming languages used in conjunction with GIS
- GIS application implemented by agency
- Internet and intranet mapping applications
- Coordinate systems
- GIS layers maintained by agency
- Geospatial assistance for emergency management operations
- Contact information for programmers and departments

In summary, the San Diego region has a very mature GIS community. Fifty-three percent of the respondents have been using GIS for more than 10 years and another seventeen percent have between 5 and 9 years of experience. Every agency responding to the survey uses ArcGIS Desktop software. Most agencies rely on one or more geospatial layers maintained or warehoused by SanGIS, but those agencies also maintain many other geospatial layers and associated tables. Agencies provide data and GIS capabilities to several departments and many have built internet and intranet applications to disseminate the information. There are a number of programming languages employed by each agency in conjunctions with their GIS, most use at least three different languages with some using seven or more. Metadata and meeting the Federal Geographic Data Committee (FGDC) minimum standards are the weakest link in our GIS community with only a little over half the agencies maintaining metadata on their layers and only half of those meet the minimum FGDC standards. Lastly, there was not a large consensus in the region on what priorities would benefit GIS most if Homeland Security monies became available. The data for this question is reported by the percentage of responding agencies that ranked each priority in their top five. The five priorities that most consistently ranked the highest are: improve maintenance (data updates), hire staff, build additional layers, design system architecture for enterprise GIS, and tied for fifth are implement applications and increase accuracy.
## Responding Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Contact Name</th>
<th>Role</th>
<th>Phone</th>
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<tbody>
<tr>
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<tr>
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<td>GIS/Land Records Supervisor</td>
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<td>Steve Kunkel</td>
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<td>Matthew Brown</td>
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Question Page Reference

Page | Question
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1 | Does your agency currently use GIS?
2 | How many years has your agency been using GIS?
3 | Please indicate the GIS software that your agency currently employs, or software you are planning to implement over the next year.
4 | Other GIS software that your agency currently employs?
5 | Other GIS software you are planning to implement over the next year?
6 | Please indicate the Computer Aided Drafting software that your agency currently employs: (Please check all that apply.)
7 | Please identify which Database Management System your organization uses in conjunction with GIS: (Please check all that apply.)
8 | Does your agency use ArcSDE?
9 | Does your agency use Oracle Spatial?
10 | What operating system does your agency use in conjunction with GIS? (Please check all that apply)
11 | Does your agency collect data with a GPS receiver?
12 | How many of each grade of GPS receivers are in use?
13 | Does your agency use these receivers regularly?
14 | How many full-time employees in your organization are dedicated to GIS operations?
15 | How many part-time employees in your organization are dedicated to GIS operations?
16 | How many contract employees or independent consultants are dedicated to GIS operations?
17 | Besides your dedicated GIS staff, how many other staff within your organization use GIS on a casual or periodic basis?
18 | What is your annual operating budget for GIS? (For multi-regional agencies please provide figures for the San Diego region only)
19 | How does your agency fund its GIS operating budget?
20 | How are your GIS functions maintained?
21 | Which departments perform GIS functions?
22 | Please list other departments not included above.
23 | Which of the following types of GIS applications have been implemented by your agency? (Check all that apply.)
24 | What programming languages does your agency use in conjunction with GIS? (Check all that apply)
25 | What other databases within or outside your agency are directly tied to your GIS data layers?
26 | What mobile GIS applications does your agency use? Please indicate application name and general use.
27 | Does your agency have any internet/intranet mapping applications?
28 | What internet/intranet mapping applications are in the works? (Enter `None' if none)
29 | What internet mapping software does your agency currently use, or will implement within the next year? (Check all applicable)
30 | Please specify any other internet mapping software you use that is not included in the above list.
31 | What is the coordinate reference system used by your agency?
32 | Does your agency use data from SanGIS?
33 | If you answered YES to the above question, which of the SanGIS layers are used as a base for your GIS? (Please check all applicable)
34 | If you do not use the SanGIS layers listed above, do you maintain these data layers in-house?
35 | Does your agency maintain other GIS data not listed above? (See Appendix 5 for specific layer information)
36 | Is there metadata on GIS layers that are maintained by your agency?
37 | If yes, does the metadata meet the minimum FGDC standard?
38 | Does your organization maintain a consolidated list of available data?
39 | If yes, how is the list available? (Please check all that apply)
If the list is available on the Internet what is the website URL for the list of available data?

Do you have a local policy that governs your data distribution? (See Appendix for policy descriptions)

If yes, please explain.

If your organization charges for GIS data and maps is the revenue critical to funding the maintenance and development of your GIS?

Is your agency conducting any major data gathering or data creation activities or will you be doing so within a year?

What data layers are you creating or planning to create in the next year?

Is your jurisdiction collaborating with other adjoining jurisdictions on building GIS data and/or applications?

If yes, please identify the type of collaboration: (Please check all applicable boxes below.)

Does your agency use a Computer Aided Dispatch (CAD) system for emergency services?

What Computer Aided Dispatch system does your agency use?

Does the Computer Aided Dispatch have GIS/mapping capabilities?

Please check the most appropriate response. The mapping data in your Computer Aided Dispatch

If your CAD system utilizes the same GIS data that is used in other parts of your organization, does the data have to be edited or manipulated so the data can be used by the Computer Aided Dispatch?

If yes to the above question how long does the data editing and manipulation take?

Check the most appropriate answer. The GIS mapping capabilities in Computer Aided Dispatch is

If federal funding were available for homeland security needs in general would your agency utilize a portion of this funding to improve your GIS system?

If yes, how important would GIS improvements be?

If yes, please rank the importance of these improvements to your agency's GIS with 1 being the highest importance and 10 the lowest.

Would it be helpful to have all or part of your organization's data housed on a central server hosted by another entity?

What types of geospatial assistance would be most beneficial for your organization's emergency management operations? (Please check all that apply)

Appendices
Appendix 1: Software Usage Tables
Appendix 2: GIS Applications Table
Appendix 3: Internet/Intranet Applications Table
Appendix 4: Coordinate Systems Table
Appendix 5: Layers Maintained by Agency
Appendix 6: Geospatial Assistance Table
Appendix 7: Contact Information
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Please indicate the GIS software that your agency currently employs, or software you are planning to implement over the next year. (Current Software)

**Bentley**

City of San Diego

**ArcGIS Desktop**

City of Carlsbad
City of Chula Vista
City of Coronado
City of El Cajon
City of Encinitas
City of Escondido
City of Imperial Beach
City of La Mesa
City of Oceanside
City of Poway
City of San Diego
City of San Marcos
City of Santee
City of Solana Beach
City of Vista
County of San Diego
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MTS
NCTD
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San Diego County Water Authority
San Diego International Airport
San Diego Unified Port District
Sempra Energy Utilities
USMC Camp Pendleton
Valley Center Municipal Water District
Vista Irrigation District

**ArcGIS Server**

City of Escondido
City of Poway
City of San Diego
San Diego International Airport
Sempra Energy Utilities
USMC Camp Pendleton

**ArcGIS Engine**

City of Escondido
City of San Diego

**ArcGIS Workstation**

City of Carlsbad
City of Chula Vista
City of Encinitas
City of Escondido
City of Poway
City of San Diego
City of Vista
County of San Diego

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**ArcGIS Workstation**

- Otay Water District
- Padre Dam Municipal Water District
- San Diego Association of Governments
- San Diego County Water Authority
- San Diego Unified Port District
- Sempra Energy Utilities
- USMC Camp Pendleton
- Vista Irrigation District

**AutoDesk**

- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Escondido
- City of Imperial Beach
- City of San Marcos
- City of Vista
- Otay Water District
- San Diego County Water Authority
- San Diego International Airport
- Sempra Energy Utilities
- Valley Center Municipal Water District

**Caliper**

- Caltrans - District 11

**ERDAS Imagine**

- County of San Diego
- San Diego County Water Authority

**Intergraph**

- City of San Diego
- County of San Diego

**Smallworld**

- City of San Diego

Please indicate the GIS software that your agency currently employs, or software you are planning to implement over the next year. (Plan To Implement Within One Year)

**ArcGIS Server**

- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of Chula Vista
- City of Encinitas
- City of San Marcos
- City of Vista
- County of San Diego
- Otay Water District
- San Diego Association of Governments
- San Diego County Water Authority
- Valley Center Municipal Water District
- Vista Irrigation District

**ArcGIS Engine**

- City of Vista
Other GIS software that your agency currently employs?

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Other GIS software you are planning to implement over the next year?

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Please indicate the Computer Aided Drafting software that your agency currently employs: (Please check all that apply.)

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Please identify which Database Management System your organization uses in conjunction with GIS: (Please check all that apply.)

**Oracle**
- Caltrans - District 11
- City of Carlsbad
- City of Escondido
- City of San Diego
- County of San Diego
- San Diego County Water Authority
- San Diego Unified Port District

**Count:** 7

**DB2**
- City of Imperial Beach
- Padre Dam Municipal Water District
- San Diego Unified Port District

**Count:** 3

**dBase**
- City of El Cajon
- City of Escondido
- City of Solana Beach
- Fallbrook Public Utility District
- San Diego Unified Port District
- Valley Center Municipal Water District

**Count:** 6

**Info**
- Caltrans - District 11
- City of Chula Vista
- City of Escondido
- San Diego Association of Governments
- San Diego Unified Port District

**Count:** 5

**Informix**
- City of Carlsbad

**Count:** 1

**SQL Express**
- County of San Diego

**Count:** 1

**SQL Server**
- City of Carlsbad
- City of Chula Vista
- City of Encinitas
- City of Oceanside
- City of Poway
- City of San Diego
- City of Vista
- County of San Diego
- Otay Water District
- San Diego Association of Governments
- San Diego International Airport
- Sempra Energy Utilities
- USMC Camp Pendleton
- Valley Center Municipal Water District
- Vista Irrigation District

**Count:** 15

**Access (MS Jet Engine)**
- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Imperial Beach
- City of La Mesa
- City of San Marcos

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<td>Padre Dam Municipal Water District</td>
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</tr>
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<tr>
<td>San Diego County Water Authority</td>
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<tr>
<td>San Diego International Airport</td>
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<td>San Diego Unified Port District</td>
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<tr>
<td>Sempra Energy Utilities</td>
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</tr>
<tr>
<td>USMC Camp Pendleton</td>
<td></td>
</tr>
<tr>
<td>Valley Center Municipal Water District</td>
<td></td>
</tr>
<tr>
<td>Vista Irrigation District</td>
<td></td>
</tr>
</tbody>
</table>
**What operating system does your agency use in conjunction with GIS? (Please check all that apply)**

**Unix**
- Caltrans - District 11
- City of San Diego
- County of San Diego
- San Diego Association of Governments
- San Diego County Water Authority
- San Diego Unified Port District
- USMC Camp Pendleton

**Count:** 7

**Solaris**
- City of Chula Vista
- City of San Diego
- San Diego County Water Authority

**Count:** 3

**Windows NT**
- City of El Cajon
- City of Escondido
- City of La Mesa
- City of San Diego
- NCTD
- Otay Water District
- San Diego County Water Authority

**Count:** 7

**Windows 2003**
- City of Carlsbad
- City of Chula Vista
- City of Encinitas
- City of Escondido
- City of Oceanside
- City of Poway
- City of San Diego
- City of San Marcos
- City of Vista
- County of San Diego
- MTS
- Padre Dam Municipal Water District
- San Diego County Water Authority
- San Diego International Airport
- Sempra Energy Utilities
- Vista Irrigation District

**Count:** 16

**Windows XP**
- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of Coronado
- City of El Cajon
- City of Encinitas
- City of Imperial Beach
- City of La Mesa
- City of Oceanside
- City of San Diego
- City of San Marcos
- City of Santee
- City of Solana Beach
- City of Vista
- County of San Diego
- Fallbrook Public Utility District

**Count:** 24
SDRGC Local Agency GIS Survey 2006

Otay Water District
Padre Dam Municipal Water District
San Diego Association of Governments
San Diego County Water Authority
San Diego Unified Port District
Sempra Energy Utilities
Valley Center Municipal Water District
Vista Irrigation District

Novell Netware
City of Santee

Windows 2000
City of El Cajon
County of San Diego

Does your agency collect data with a GPS receiver?

Yes
Caltrans - District 11
City of Carlsbad
City of Chula Vista
City of Coronado
City of El Cajon
City of Encinitas
City of Escondido
City of Imperial Beach
City of Oceanside
City of San Diego
City of San Marcos
City of Santee
County of San Diego
Fallbrook Public Utility District
MTS
Otay Water District
San Diego Association of Governments
San Diego County Water Authority
San Diego Unified Port District
Sempra Energy Utilities
USMC Camp Pendleton

No
City of La Mesa
City of Poway
City of Solana Beach
City of Vista
NCTD
Padre Dam Municipal Water District
San Diego International Airport
Valley Center Municipal Water District
Vista Irrigation District

Count: 21

Count: 9
### How many of each grade of GPS receivers are in use?

#### Survey (< centimeter)
- Caltrans - District 11
- City of Encinitas
- City of Escondido
- City of San Diego
- County of San Diego
- Fallbrook Public Utility District
- Otay Water District
- San Diego County Water Authority
- San Diego Unified Port District

**Count:** 9

#### Mapping (< 1 meter)
- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of Coronado
- City of El Cajon
- City of Encinitas
- City of Escondido
- City of Imperial Beach
- City of San Diego
- City of San Marcos
- City of Santee
- County of San Diego
- MTS
- Otay Water District
- San Diego Association of Governments
- San Diego County Water Authority
- San Diego Unified Port District
- Sempra Energy Utilities
- USMC Camp Pendleton

**Count:** 19

#### Recreational (> 1 meter)
- Caltrans - District 11
- City of San Diego
- County of San Diego
- San Diego County Water Authority
- San Diego Unified Port District

**Count:** 5
Does your agency use these receivers regularly?

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<tr>
<td>City of Coronado</td>
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<td>City of El Cajon</td>
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<tr>
<td>City of Escondido</td>
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<td>City of San Diego</td>
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<tr>
<td>County of San Diego</td>
<td></td>
</tr>
<tr>
<td>Fallbrook Public Utility District</td>
<td></td>
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<tr>
<td>Otay Water District</td>
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<table>
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<td>City of San Marcos</td>
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<td>City of Santee</td>
<td></td>
</tr>
<tr>
<td>MTS</td>
<td></td>
</tr>
<tr>
<td>San Diego Association of Governments</td>
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<tr>
<td>Sempra Energy Utilities</td>
<td></td>
</tr>
<tr>
<td>Count</td>
<td>Agency/Utility</td>
</tr>
<tr>
<td>-------</td>
<td>----------------------------------------------------</td>
</tr>
<tr>
<td>8</td>
<td>City of Coronado, City of El Cajon, City of Imperial Beach, City of La Mesa, City of Poway, City of Solana Beach, City of Vista, NCTD</td>
</tr>
<tr>
<td>1</td>
<td>MTS</td>
</tr>
<tr>
<td>5</td>
<td>City of San Marcos, City of Santee, San Diego Unified Port District, USMC Camp Pendleton, Valley Center Municipal Water District</td>
</tr>
<tr>
<td>3</td>
<td>City of Encinitas, Fallbrook Public Utility District, Vista Irrigation District</td>
</tr>
<tr>
<td>4</td>
<td>City of Escondido, City of Oceanside, Otay Water District, Padre Dam Municipal Water District</td>
</tr>
<tr>
<td>1</td>
<td>San Diego County Water Authority</td>
</tr>
<tr>
<td>3</td>
<td>City of Carlsbad, City of Chula Vista, San Diego International Airport</td>
</tr>
<tr>
<td>2</td>
<td>Caltrans - District 11, Sempra Energy Utilities</td>
</tr>
<tr>
<td>1</td>
<td>San Diego Association of Governments</td>
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<tr>
<td>1</td>
<td>City of San Diego</td>
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<tr>
<td>1</td>
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</table>
How many part-time employees in your organization are dedicated to GIS operations?

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<th>City Name</th>
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<td>City of Solana Beach</td>
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<td>MTS</td>
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<td>San Diego Unified Port District</td>
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<tr>
<td>1</td>
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</tr>
<tr>
<td></td>
<td>City of Imperial Beach</td>
</tr>
<tr>
<td></td>
<td>Vista Irrigation District</td>
</tr>
<tr>
<td>2</td>
<td>City of Carlsbad</td>
</tr>
<tr>
<td></td>
<td>San Diego Association of Governments</td>
</tr>
<tr>
<td>3</td>
<td>City of Chula Vista</td>
</tr>
<tr>
<td></td>
<td>City of Escondido</td>
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<tr>
<td>5</td>
<td>City of San Diego</td>
</tr>
<tr>
<td>10</td>
<td>City of El Cajon</td>
</tr>
</tbody>
</table>

Count: 14

Count: 5

Count: 3

Count: 3

Count: 1

Count: 1
## How many contract employees or independent consultants are dedicated to GIS operations?

<table>
<thead>
<tr>
<th>Count</th>
<th>Count</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>14</td>
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</tbody>
</table>
|       | City of Chula Vista  
|       | City of El Cajon  
|       | City of Escondido  
|       | City of Oceanside  
|       | City of Poway  
|       | City of San Marcos  
|       | City of Santee  
|       | City of Solana Beach  
|       | Fallbrook Public Utility District  
|       | MTS  
|       | NCTD  
|       | San Diego Association of Governments  
|       | San Diego County Water Authority  
|       | San Diego Unified Port District  
|       | **Several consultant firms working on capital projects**  
|       | Caltrans - District 11  
| 1     | 1  
|       | City of Imperial Beach  
|       | City of La Mesa  
|       | City of Vista  
|       | County of San Diego  
|       | Otay Water District  
|       | Padre Dam Municipal Water District  
|       | Valley Center Municipal Water District  
|       | Vista Irrigation District  
| 2     | 1  
|       | City of Carlsbad  
| 5     | 1  
|       | San Diego International Airport  
| 7     | 1  
|       | City of Encinitas  
| 10    | 1  
|       | USMC Camp Pendleton  
| 12    | 1  
|       | City of San Diego
Besides your dedicated GIS staff, how many other staff within your organization use GIS on a casual or periodic basis?

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<thead>
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<td>1 - 5</td>
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<td>City of Coronado</td>
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<td>City of Poway</td>
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<td></td>
<td>City of Solana Beach</td>
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<td></td>
<td>Fallbrook Public Utility District</td>
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<tr>
<td></td>
<td>Padre Dam Municipal Water District</td>
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<tr>
<td></td>
<td>San Diego Unified Port District</td>
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<td></td>
<td>Valley Center Municipal Water District</td>
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<td>Vista Irrigation District</td>
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<tr>
<td>6 - 10</td>
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<td>City of Carlsbad</td>
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<td>Sempra Energy Utilities</td>
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<td>51 - 100</td>
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<td>&gt; 100</td>
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<td>San Diego International Airport</td>
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<tr>
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<td>USMC Camp Pendleton</td>
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</table>
**What is your annual operating budget for GIS? (For multi-regional agencies please provide figures for the San Diego region only)**

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<td>City of La Mesa</td>
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<td>City of Poway</td>
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<td>City of San Marcos</td>
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<td>City of Santee</td>
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<tr>
<td>City of Solana Beach</td>
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<tr>
<td>City of Vista</td>
<td></td>
</tr>
<tr>
<td>Fallbrook Public Utility District</td>
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<tr>
<td>MTS</td>
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<tr>
<td>NCTD</td>
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<td>Vista Irrigation District</td>
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<tr>
<td>$100,000-$200,000</td>
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<td>Otay Water District</td>
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<td>San Diego International Airport</td>
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<tr>
<td>$300,000-$500,000</td>
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<tr>
<td>&gt;$1,000,000</td>
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<td>County of San Diego</td>
<td></td>
</tr>
<tr>
<td>USMC Camp Pendleton</td>
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</table>
### How does your agency fund its GIS operating budget?

<table>
<thead>
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<th>Category</th>
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<td>NCTD</td>
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</tr>
<tr>
<td>Valley Center Municipal Water District</td>
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<tr>
<td><strong>Included in multiple departmental budgets</strong></td>
<td>3</td>
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<tr>
<td>San Diego Unified Port District</td>
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<tr>
<td><strong>Both single budgetary item and in multiple departmental budgets</strong></td>
<td>17</td>
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<tr>
<td>USMC Camp Pendleton</td>
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<td>Vista Irrigation District</td>
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### How are your GIS functions maintained?

<table>
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<table>
<thead>
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</table>

<table>
<thead>
<tr>
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<td>Sempra Energy Utilities</td>
<td></td>
</tr>
<tr>
<td>USMC Camp Pendleton</td>
<td></td>
</tr>
</tbody>
</table>
### Which departments perform GIS functions?

#### Assessment / Equalization

- **Advanced user of GIS software**
  - County of San Diego  
  Count: 1

- **Casual use of GIS software**
  - Otay Water District
  - San Diego International Airport
  Count: 2

- **End user of mapping applications**
  - San Diego Unified Port District
  Count: 1

#### Emergency Management

- **Casual use of GIS software**
  - City of La Mesa
  - City of San Diego
  - City of San Marcos
  - City of Vista
  - County of San Diego
  - San Diego International Airport
  Count: 6

- **End user of mapping applications**
  - City of Carlsbad
  - City of Chula Vista
  - City of Coronado
  - City of Encinitas
  - City of Escondido
  - City of Oceanside
  - City of Poway
  - Otay Water District
  - San Diego County Water Authority
  - San Diego Unified Port District
  - Sempra Energy Utilities
  - USMC Camp Pendleton
  Count: 12
### Which departments perform GIS functions?

#### Engineering

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Which departments perform GIS functions?

**Environmental**

**Advanced user of GIS software**
- City of San Diego
- County of San Diego
- San Diego International Airport
- USMC Camp Pendleton

**Casual use of GIS software**
- City of Encinitas
- City of Solana Beach
- Otay Water District
- San Diego County Water Authority
- San Diego Unified Port District
- Sempra Energy Utilities

**End user of mapping applications**
- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of Escondido
- City of Oceanside
- City of Poway
- City of Vista
- Fallbrook Public Utility District
- Padre Dam Municipal Water District

**Fire Dept**

**Advanced user of GIS software**
- City of El Cajon
- City of San Diego

**Casual use of GIS software**
- City of La Mesa
- City of Oceanside
- City of Poway
- City of San Marcos
- City of Santee
- City of Vista

**End user of mapping applications**
- City of Carlsbad
- City of Chula Vista
- City of Coronado
- City of Encinitas
- City of Escondido
- City of Imperial Beach
- USMC Camp Pendleton

**Health**

**Advanced user of GIS software**
- County of San Diego

**End user of mapping applications**
- USMC Camp Pendleton
### Human Services

**Advanced user of GIS software**
- County of San Diego

**Casual use of GIS software**
- City of San Marcos

**End user of mapping applications**
- City of Encinitas
- City of Poway
- City of Vista

### Information Technology

**Advanced user of GIS software**
- City of Chula Vista
- City of Escondido
- City of San Diego
- City of San Marcos
- Otay Water District
- Sempra Energy Utilities
- USMC Camp Pendleton

**Casual use of GIS software**
- San Diego International Airport

**End user of mapping applications**
- City of Poway
- City of Vista

### Planning

**Advanced user of GIS software**
- Caltrans - District 11
- City of Coronado
- City of El Cajon
- City of San Diego
- County of San Diego
- Otay Water District
- San Diego County Water Authority

**Casual use of GIS software**
- City of Chula Vista
- City of Encinitas
- City of Escondido
- City of La Mesa
- City of Poway
- City of San Marcos
- MTS
- San Diego Association of Governments
- San Diego International Airport

**End user of mapping applications**
- City of Carlsbad
- City of Imperial Beach
- City of Santee
- City of Solana Beach
- City of Vista
- San Diego Unified Port District
- USMC Camp Pendleton
Which departments perform GIS functions?

**Police Dept**

**Advanced user of GIS software**
- City of El Cajon
- City of San Diego
- County of San Diego

**Casual use of GIS software**
- City of Carlsbad
- City of Chula Vista
- City of Coronado
- City of La Mesa
- City of Oceanside
- City of San Marcos

**End user of mapping applications**
- City of Escondido
- San Diego Unified Port District

**Public Utilities**

**Advanced user of GIS software**
- City of Oceanside
- City of San Diego
- San Diego International Airport
- USMC Camp Pendleton

**Casual use of GIS software**
- City of Carlsbad
- City of Poway

**End user of mapping applications**
- Caltrans - District 11
- City of Escondido
- City of Vista
- San Diego County Water Authority
- San Diego Unified Port District
- Sempra Energy Utilities
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Which of the following types of GIS applications have been implemented by your agency? (Check all that apply.)

### Crime tracking
- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Escondido
- City of San Diego
- County of San Diego
- San Diego Association of Governments
- San Diego Unified Port District

   **Count:** 8

### Disease control
- County of San Diego

   **Count:** 1

### Environmental
- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Escondido
- City of San Diego
- County of San Diego
- San Diego Association of Governments
- San Diego County Water Authority
- San Diego International Airport
- San Diego Unified Port District
- Sempra Energy Utilities
- USMC Camp Pendleton

   **Count:** 13

### Property record management and taxation
- City of Carlsbad
- City of El Cajon
- City of Imperial Beach
- City of San Marcos
- City of Solana Beach
- City of Vista
- County of San Diego
- NCTD
- Otay Water District
- San Diego County Water Authority
- San Diego International Airport
- San Diego Unified Port District
- Sempra Energy Utilities

   **Count:** 13

### Emergency preparedness and response
- City of Carlsbad
- City of Chula Vista
- City of Chula Vista
- City of Escondido
- City of Imperial Beach
- City of Oceanside
- City of San Diego
- City of San Marcos
- County of San Diego
- NCTD
- San Diego County Water Authority
- San Diego Unified Port District
- Valley Center Municipal Water District

   **Count:** 14
**Hazardous Materials Management**

- City of Carlsbad
- City of Chula Vista
- County of San Diego
- NCTD
- San Diego International Airport
- USMC Camp Pendleton

**Vehicle and field force routing**

- City of Carlsbad
- City of El Cajon
- City of San Diego
- Otay Water District
- Sempra Energy Utilities

**Computer Aided Dispatch (CAD)**

- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Escondido
- City of Oceanside
- City of San Diego
- City of Vista
- County of San Diego
- Otay Water District
- San Diego Unified Port District

**E911**

- City of Escondido
- City of San Diego

**Permitting**

- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Escondido
- City of Imperial Beach
- City of San Diego
- County of San Diego
- Otay Water District
- USMC Camp Pendleton

**Inspections**

- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Encinitas
- City of Imperial Beach
- City of San Diego
- County of San Diego
- Sempra Energy Utilities
- USMC Camp Pendleton

**Capital planning design and construction design**

- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Imperial Beach
- City of La Mesa
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**What programming languages does your agency use in conjunction with GIS? (Check all that apply)**

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City of Vista
Fallbrook Public Utility District
Otay Water District
San Diego Association of Governments
San Diego Unified Port District
Vista Irrigation District

Visual Basic for Applications  Count: 16
Caltrans - District 11
City of Carlsbad
City of Escondido
City of Imperial Beach
City of Oceanside
City of San Diego
City of Santee
County of San Diego
Otay Water District
Padre Dam Municipal Water District
San Diego Association of Governments
San Diego County Water Authority
San Diego International Airport
Sempra Energy Utilities
USMC Camp Pendleton
Vista Irrigation District

ASP  Count: 6
City of Chula Vista
City of Escondido
City of San Diego
City of Vista
County of San Diego
San Diego Association of Governments

ASP.net  Count: 5
City of Chula Vista
City of Oceanside
Otay Water District
San Diego Association of Governments
San Diego International Airport

XML  Count: 11
City of Carlsbad
City of Chula Vista
City of Escondido
City of San Diego
City of Vista
County of San Diego
Otay Water District
Padre Dam Municipal Water District
San Diego Association of Governments
San Diego International Airport
Vista Irrigation District

HTML  Count: 11
Caltrans - District 11
City of Chula Vista
City of El Cajon
City of Escondido
City of Oceanside
City of San Diego
City of Vista
County of San Diego
Otay Water District
San Diego Association of Governments
San Diego International Airport

None Count: 3
City of San Marcos
MTS
Valley Center Municipal Water District

Fortran Count: 1
Caltrans - District 11

JavaScript Count: 1
San Diego International Airport
### What other databases within or outside your agency are directly tied to your GIS data layers?

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<td>Customer database</td>
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<td>Customer Utility Billing System</td>
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<td>Work Order Management database (GBA)</td>
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<tr>
<td>City of Chula Vista</td>
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</tbody>
</table>
What mobile GIS applications does your agency use? Please indicate application name and general use.

**ArcPad**
- City of Carlsbad
- City of Chula Vista
- City of El Cajon
- City of Encinitas
- City of San Marcos
- County of San Diego
- Sempra Energy Utilities

**Count:** 7

**ArcReader on field laptops.**
- San Diego County Water Authority

**Count:** 1

**Field tablet PC**
- Otay Water District

**Count:** 1

**Trimble**
- Caltrans - District 11
- City of Chula Vista

**Count:** 2

Does your agency have any internet/intranet mapping applications?

**Yes**
- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of Encinitas
- City of Escondido
- City of Oceanside
- City of San Diego
- City of Vista
- County of San Diego
- Otay Water District
- San Diego Association of Governments
- San Diego County Water Authority
- San Diego International Airport
- San Diego Unified Port District
- Sempra Energy Utilities
- USMC Camp Pendleton
- Valley Center Municipal Water District
- Vista Irrigation District

**Count:** 18

**No**
- City of Coronado
- City of El Cajon
- City of Imperial Beach
- City of La Mesa
- City of Poway
- City of San Marcos
- City of Santee
- City of Solana Beach
- Fallbrook Public Utility District
- MTS
- NCTD
- Padre Dam Municipal Water District

**Count:** 12
<table>
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<td>Sempra Energy Utilities</td>
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<td><strong>EZoning - application to offer easy to understand zoning information to the public.</strong></td>
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<tr>
<td>The first release of this just occurred. But this will be expanded significantly over the next year.</td>
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<td>City of Chula Vista</td>
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<tr>
<td><strong>Inter Governmental Review (IGR)</strong></td>
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<td><strong>Landscape Area Measurement tool.</strong></td>
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<td><strong>WebEOC Resource Locator, Property Viewer, HHSA Community Data Portal</strong></td>
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<td>County of San Diego</td>
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<td><strong>Will implement 3rd party mapping application for internet access</strong></td>
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</table>
What internet mapping software does your agency currently use, or will implement within the next year? (Check all applicable)  (Current Software)

**Google Earth**
- Caltrans - District 11
- San Diego Association of Governments

**ArcIMS**
- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of Encinitas
- City of Escondido
- City of Oceanside
- City of San Diego
- Otay Water District
- San Diego Association of Governments
- San Diego County Water Authority
- San Diego Unified Port District
- Sempra Energy Utilities
- USMC Camp Pendleton
- Valley Center Municipal Water District
- Vista Irrigation District

**ArcGIS Server**
- City of San Diego

**MapGuide**
- City of Vista

What internet mapping software does your agency currently use, or will implement within the next year? (Check all applicable)  (Plan To Implement Within One Year)

**Google Maps**
- San Diego Association of Governments

**Google Earth**
- Sempra Energy Utilities

**ArcIMS**
- County of San Diego

**ArcGIS Server**
- Caltrans - District 11
- City of Chula Vista
- City of Encinitas
- City of Escondido
- City of Vista
- County of San Diego
- San Diego Association of Governments
- San Diego County Water Authority
- Sempra Energy Utilities
- Valley Center Municipal Water District
- Vista Irrigation District
Please specify any other internet mapping software you use that is not included in the above list.

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What is the coordinate reference system used by your agency?

### Localized

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### UTM

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### Geographic (Latitude/Longitude)

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### State plane

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### What is the coordinate reference system used by your agency?

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### Does your agency use data from SanGIS?

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If you answered YES to the above question, which of the SanGIS layers are used as a base for your GIS? (Please check all applicable)

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If you do not use the SanGIS layers listed above, do you maintain these data layers in-house?

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### Does your agency maintain other GIS data not listed above? (See Appendix 5 for specific layer information)

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### Does your organization maintain a consolidated list of available data?

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### If yes, how is the list available? (Please check all that apply)

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If the list is available on the Internet what is the website URL for the list of available data?

- http://www.sandag.org/index.asp?subclassid=100&fuseaction=home.subclasshome  Count: 1
  - San Diego Association of Governments
- www.sangis.org  Count: 1
  - County of San Diego

Do you have a local policy that governs your data distribution?

Yes  Count: 11
- City of Carlsbad
- City of Chula Vista
- City of Encinitas
- City of Escondido
- City of San Marcos
- County of San Diego
- Otay Water District
- Padre Dam Municipal Water District
- San Diego Association of Governments
- San Diego Unified Port District
- USMC Camp Pendleton

No  Count: 9
- Caltrans - District 11
- City of El Cajon
- City of Imperial Beach
- City of Oceanside
- City of Santee
- Fallbrook Public Utility District
- MTS
- San Diego County Water Authority
- San Diego International Airport
If yes, please explain.

All data is in the public domain except for those data sets licensed to the County Count: 1
  County of San Diego

All data must be requested through the clerks office. Count: 1
  San Diego Unified Port District

All SANDAG data is publicly available except for data that is licensed to us. Count: 1
  San Diego Association of Governments

All unrestricted data except for imagery and contour data Count: 1
  City of Carlsbad

Data Distribution Agreement must be signed Count: 1
  City of San Marcos

Data must be requested via letter Count: 1
  USMC Camp Pendleton

Most vector data is given away at no charge once OK’ed by the ‘owner’ Department. Orthophotos and contour data are given away at no charge to contractors doing work for the City Count: 1
  City of Encinitas

We charge for labor to distribute the data - but allow free access to download data from the internet. Count: 1
  City of Chula Vista

We make data available to consultants working within Count: 1
  City of Escondido

We only share our data with member agencies and consultants working on jobs for us as needed. Count: 1
  Padre Dam Municipal Water District

If your organization charges for GIS data and maps is the revenue critical to funding the maintenance and development of your GIS?

Yes Count: 2
  Otay Water District
  San Diego Association of Governments

No Count: 9
  City of Carlsbad
  City of Chula Vista
  City of El Cajon
  City of Encinitas
  City of Escondido
  City of Santee
  County of San Diego
  San Diego International Airport
  Valley Center Municipal Water District

We do not charge for GIS data Count: 10
  Caltrans - District 11
  City of Imperial Beach
  City of Oceanside
  City of San Marcos
  Fallbrook Public Utility District
  MTS
  Padre Dam Municipal Water District
  San Diego County Water Authority
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What data layers are you creating or planning to create in the next year?

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If yes, please identify the type of collaboration: (Please check all applicable boxes below.)

**Federal**

Data
- San Diego Association of Governments  
  Count: 1

**State**

Data
- Caltrans - District 11  
- San Diego Association of Governments  
  Count: 2

**Regional**

Applications
- City of Encinitas  
  Count: 1

Data
- Caltrans - District 11  
- City of Encinitas  
- City of Poway  
- San Diego Association of Governments  
- San Diego County Water Authority  
- San Diego Unified Port District  
  Count: 6

**Financial**

- City of Encinitas  
- San Diego Unified Port District  
  Count: 2

Policy or Procedural

- City of Poway  
- San Diego County Water Authority  
  Count: 2

**Standards**

- City of Encinitas  
  Count: 1

**County**

Data
- Caltrans - District 11  
- City of Chula Vista  
- San Diego Association of Governments  
  Count: 3
If yes, please identify the type of collaboration: (Please check all applicable boxes below.)

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<td>City of Vista</td>
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Does your agency use a Computer Aided Dispatch (CAD) system for emergency services?

**Yes**

Caltrans - District 11  
City of Carlsbad  
City of Chula Vista  
City of Coronado  
City of El Cajon  
City of Encinitas  
City of Escondido  
City of La Mesa  
City of Oceanside  
City of San Diego  
City of Vista  
County of San Diego  
Otay Water District  
San Diego Unified Port District

**Count:** 14

**No**

City of Imperial Beach  
City of Poway  
City of San Marcos  
City of Santee  
City of Solana Beach  
Fallbrook Public Utility District  
MTS  
Padre Dam Municipal Water District  
San Diego Association of Governments  
San Diego County Water Authority  
San Diego International Airport  
USMC Camp Pendleton  
Valley Center Municipal Water District  
Vista Irrigation District

**Count:** 14

What Computer Aided Dispatch system does your agency use?

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<tr>
<th>Agency</th>
<th>Software</th>
<th>Vendor</th>
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<td>Tiburon</td>
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<td>LifeLine CAD</td>
<td>Cross Current</td>
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<td>Command Point</td>
<td>Northrop Grumman</td>
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<td>VisiCad</td>
<td>West Covina service group - WCPD</td>
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<td>First Call CAD</td>
<td>Logisys</td>
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Does the Computer Aided Dispatch have GIS/mapping capabilities?

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Please check the most appropriate response. The mapping data in your Computer Aided Dispatch

<table>
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<th>Utilizes the same GIS Data that is used in other parts of your organization</th>
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<table>
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<th>Input separately and is standalone</th>
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<td>City of Vista</td>
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<tr>
<td>San Diego Unified Port District</td>
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If your CAD system utilizes the same GIS data that is used in other parts of your organization, does the data have to be edited or manipulated so the data can be used by the Computer Aided Dispatch?

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<th>Yes</th>
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<table>
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If yes to the above question how long does the data editing and manipulation take?

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Check the most appropriate answer. The GIS mapping capabilities in Computer Aided Dispatch is

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<table>
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If federal funding were available for homeland security needs in general would your agency utilize a portion of this funding to improve your GIS system?

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If yes, how important would GIS improvements be?

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If yes, please rank the importance of these improvements to your agency’s GIS with 1 being the highest importance and 10 the lowest.

Report data indicates percentage of responding agencies that ranked each item in their top 5.

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<th>Improvement</th>
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<td>Improve maintenance (data updates)</td>
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<td>Hire staff</td>
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<td>Build additional layers</td>
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<td>Increase accuracy</td>
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<td>Hire consultants</td>
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<td>Train staff</td>
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<tr>
<td>Create interjurisdictionial GIS layers or regional layers</td>
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<tr>
<td>Acquire hardware, software, or telecommunication systems for data</td>
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Would it be helpful to have all or part of your organization’s data housed on a central server hosted by another entity?

**Yes**
- City of Escondido
- City of La Mesa
- City of Santee
- MTS
- Otay Water District
- USMC Camp Pendleton

**Count:** 6

**No**
- Caltrans - District 11
- City of Carlsbad
- City of Chula Vista
- City of Encinitas
- City of Imperial Beach
- City of Oceanside
- City of Poway
- City of San Marcos
- County of San Diego
- Fallbrook Public Utility District
- Padre Dam Municipal Water District
- San Diego Association of Governments
- San Diego County Water Authority
- San Diego International Airport
- San Diego Unified Port District
- Valley Center Municipal Water District
- Vista Irrigation District

**Count:** 17
What types of geospatial assistance would be most beneficial for your organization's emergency management operations? (Please check all that apply)

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Appendices
1 through 7
## Current GIS Software Used

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January, 2007
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January, 2007
# SDRGC Local Agency GIS Survey 2006

## GIS Applications Implemented by Agency

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# SDRGC Local Agency GIS Survey 2006

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<tr>
<td>Vista Irrigation District</td>
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</tr>
</tbody>
</table>
Borrego Water District
GIS Manager (or equivalent) Contact Information
Name: Jerry Rolwing
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Emergency Management Director (or equivalent):
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Caltrans - District 11
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City of Chula Vista

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City Engineer (or equivalent):

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City of Coronado

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Public Works Director (or equivalent):

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City Engineer (or equivalent):

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City of Del Mar

GIS Manager (or equivalent) Contact Information

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City of El Cajon

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Planning Director (or equivalent):

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### City of Encinitas

**GIS Manager (or equivalent) Contact Information**

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<th>Name</th>
<th>Wendy Barto</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
<td>GIS Supervisor</td>
</tr>
<tr>
<td>Agency</td>
<td>City of Encinitas</td>
</tr>
<tr>
<td>Address</td>
<td>505 S Vulcan Ave. Encinitas</td>
</tr>
<tr>
<td>Phone Number</td>
<td>760-633-2665</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:wbarto@ci.encinitas.ca.us">wbarto@ci.encinitas.ca.us</a></td>
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**Planning Director (or equivalent):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Patrick Murphy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Director of Planning</td>
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<td>Phone Number</td>
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</tr>
<tr>
<td>Email</td>
<td><a href="mailto:pmurphy@ci.encinitas.ca.us">pmurphy@ci.encinitas.ca.us</a></td>
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**Public Works Director (or equivalent):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Victor Graves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Director of Public Works (Interim)</td>
</tr>
<tr>
<td>Phone Number</td>
<td>760-633-2763</td>
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<tr>
<td>Email</td>
<td><a href="mailto:vgraves@ci.encinitas.ca.us">vgraves@ci.encinitas.ca.us</a></td>
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**City Engineer (or equivalent):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Peter Cota-Robles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Director of Engineering</td>
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<tr>
<td>Phone Number</td>
<td>760-633-2771</td>
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<tr>
<td>Email</td>
<td><a href="mailto:pcr@ci.encinitas.ca.us">pcr@ci.encinitas.ca.us</a></td>
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**Emergency Management Director (or equivalent):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Tom Gallup</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
<td>(Fire) Management Analyst II</td>
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<tr>
<td>Phone Number</td>
<td>760-633-2825</td>
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<td><a href="mailto:tgallup@ci.encinitas.ca.us">tgallup@ci.encinitas.ca.us</a></td>
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</table>

**GIS staff person with the most programming expertise.**

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<thead>
<tr>
<th>Name</th>
<th>Jodi Luostarinen</th>
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<td>Email</td>
<td><a href="mailto:jodi@quarticsolutions.com">jodi@quarticsolutions.com</a></td>
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</table>
**City of Escondido**

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**Planning Director (or equivalent):**

- **Name:** Barbara Redlitz  
- **Title:** Asst Planning Director

**Public Works Director (or equivalent):**

- **Name:** Pat Thomas  
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**City Engineer (or equivalent):**

- **Name:** Ed Domingue  
- **Title:** Dept. Director of Public Works

**Emergency Management Director (or equivalent):**

- **Name:** Anthony Arakelian  
- **Title:** Emergency Services Coordinator

**Name of 911 Director (or equivalent):**

- **Name:** Garry Wells  
- **Title:** Public Safety Communications Manager

**GIS staff person with the most programming expertise.**

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Emergency Management Director (or equivalent):

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City of Lemon Grove

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City of National City

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City of Oceanside

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City of Poway

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## San Diego Association of Governments

### GIS Manager (or equivalent) Contact Information

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<th>Name</th>
<th>Steve Kunkel</th>
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</thead>
<tbody>
<tr>
<td>Title</td>
<td>Senior GIS Analyst</td>
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<td>Agency</td>
<td>San Diego Association of Governments</td>
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<tr>
<td>Address</td>
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<td>Phone Number</td>
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</tr>
<tr>
<td>Email</td>
<td><a href="mailto:sku@sandag.org">sku@sandag.org</a></td>
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### Planning Director (or equivalent):

<table>
<thead>
<tr>
<th>Name</th>
<th>Jeff Tayman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Director of Technical Services</td>
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<td>Phone Number</td>
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<tr>
<td>Email</td>
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</table>
San Diego County Water Authority

GIS Manager (or equivalent) Contact Information

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**USMC Camp Pendleton**

**GIS Manager (or equivalent) Contact Information:**

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<tr>
<th>Name</th>
<th>Bill Russell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>GIS-SPT DIRECTOR</td>
</tr>
<tr>
<td>Agency</td>
<td>USMC Camp Pendleton</td>
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<tr>
<td>Address</td>
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<tr>
<td>Phone Number</td>
<td>760-725-6281</td>
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<tr>
<td>Email</td>
<td>william.c.russell1</td>
</tr>
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**Public Works Director (or equivalent):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Bill Russell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>GIS-SPT DIRECTOR</td>
</tr>
<tr>
<td>Phone Number</td>
<td>760-725-6281</td>
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<tr>
<td>Email</td>
<td>william.c.russell1</td>
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**Name of 911 Director (or equivalent):**

<table>
<thead>
<tr>
<th>Name</th>
<th>William Frankel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Deputy Fire Chief</td>
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<td>Email</td>
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</tbody>
</table>

**GIS staff person with the most programming expertise:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Jason Thacker</th>
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<tbody>
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<td>Email</td>
<td><a href="mailto:jthacker@taic.net">jthacker@taic.net</a></td>
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</tbody>
</table>
Valley Center Municipal Water District

GIS Manager (or equivalent) Contact Information

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City Engineer (or equivalent):

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Emergency Management Director (or equivalent):

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GIS staff person with the most programming expertise.

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