

San Diego Regional GIS Council

Local Agency GIS Survey 2006

January, 2007

Paul Hardwick 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

Borrego Water District

Jerry Rolwing Operations Manager 760-767-5806 jerry@borregowd.org

Caltrans - District 11

Pat Landrum GIS Manager 619-688-6476 pat.landrum@dot.ca.gov

City of Carlsbad

Karl von Schlieder GIS Manager 760-602-2434 kvons@ci.carlsbad.ca.us

City of Chula Vista

Tom McDowell Applications Support Manager 619-476-5339 tmcdowell@ci.chula-vista.ca.us

City of Coronado

Peter Fait Associate Planner 619-522-2414 pfait@coronado.ca.us

City of Del Mar

Dan Halverson Assistant Planner 858-755-9313 Dhalverson@delmar.ca.us

City of El Cajon

Robert Griswold Senior Engineering Technician 619-441-1653 bgriswold@ci.el-cajon.ca.us

City of Encinitas

Wendy Barto GIS Supervisor 760-633-2665 wbarto@ci.encinitas.ca.us

City of Escondido

Dan Hildebrand GIS Manager 760-839-4037 dhildebrand@escondido.org

City of Imperial Beach

John Nazimek GIS Program Manager 619-423-8311 jnazimek@cityofib.org

City of La Mesa

Michael Kinnard Associate Engineer 619-667-1155 mkinnard@ci.la-mesa.ca.us

City of Lemon Grove

Majed Al-Ghafry P.W. Director 619-825-3800 mghafry@ci.lemon-grove.ca.us

City of National City

Alberto Griego Associate Civil Engineer 619-336-4386 agriego@ci.national-city.ca.us

City of Oceanside

Talli Carey GIS Supervisor 760-435-5809 tcarey@ci.oceanside.ca.us

City of Poway

Peter Moote Deputy Director of Admin. Services 858-668-4414 pmoote@ci.poway.ca.us

City of San Diego

Matt McGarvey CIO 619-533-3637 mmcgarvey@sandiego.gov

City of San Marcos

Mettja Kuna Administrative Analyst/GIS 760-744-1050 x 3270 mkuna@san-marcos.net

City of Santee

Cory Christensen IT Manager/GIS Manager 619-258-4100#195 cchriste@ci.santee.ca.us

Responding Agencies

City of Solana Beach

Danny King Environmental Specialist 858-720-2477 DKing@cosb.org

City of Vista

Paul Waldron IT Analyst/GIS Coordinator 760-639-6185 pwaldron@ci.vista.ca.us

County of San Diego

David Lindsay GIS Manager 858-694-2826 david.lindsay@sdcounty.ca.gov

Fallbrook Public Utility District

Todd Jester GIS Specialist 760 728-1125 toddj@fpud.com

<u>MTS</u>

Anika-Aduesa I. Smart Associate Transportation Planner 619-595-4901 anika.smart@sdmts.com

<u>NCTD</u>

Edward Singer 760-966-6556 esinger@nctd.org

Otay Water District

Ming Zhao GIS Supervisor 619-670-2240 mzhao@otaywater.gov

Padre Dam Municipal Water District

Colleen Larsen GIS/Mapping Specialist 619-258-4648 clarsen@padre.org

San Diego Association of Governments

Steve Kunkel Senior GIS Analyst 619-699-1918 sku@sandag.org

San Diego County Water Authority

Matthew Brown IS Manager 858-522-6625 mbrown@sdcwa.org

San Diego International Airport

Ataa Aly Project Engineer 619-400-2646 aaly@san.org

San Diego Unified Port District

Malcolm Meikle GIS Coordinator 619-696-6539 mmeikle@portofsandiego.org

Sempra Energy Utilities

Casey Cook GIS/Land Records Supervisor 858-650-4081 cook@semprautilities.com

USMC Camp Pendleton

Bill Russell GIS-SPT DIRECTOR 760-725-6281 william.c.russell1

Valley Center Municipal Water District

Patricia Garcia GIS/Mapping Supervisor 760-749-1603 trish@vcmwd.org

Vista Irrigation District

Bruce Levy Engineering Project Manager 760-597-3181 blevy@vid-h2o.org

Question Page Reference

Page Question

- 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.
- 5 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?
- 27 Please list other departments not included above.
- 28 Which of the following types of GIS applications have been implemented by your agency? (Check all that apply.)
- 29 What programming languages does your agency use in conjunction with GIS? (Check all that apply)
- 35 What other databases within or outside your agency are directly tied to your GIS data layers?
- 36 What mobile GIS applications does your agency use? Please indicate application name and general use.
- 36 Does your agency have any internet/intranet mapping applications?
- 37 What internet/intranet mapping applications are in the works? (Enter `None' if none)
- 38 What internet mapping software does your agency currently use, or will implement within the next year? (Check all applicable)
- 39 Please specify any other internet mapping software you use that is not included in the above list.
- 40 What is the coordinate reference system used by your agency?
- 41 Does your agency use data from SanGIS?
- 42 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)
- 43 If you do not use the SanGIS layers listed above, do you maintain these data layers in-house?
- 44 Does your agency maintain other GIS data not listed above? (See Appendix 5 for specific layer information)
- 45 Is there metadata on GIS layers that are maintained by your agency?
- 45 If yes, does the metadata meet the minimum FGDC standard?
- 46 Does your organization maintain a consolidated list of available data?
- 46 If yes, how is the list available? (Please check all that apply)

- 47 If the list is available on the Internet what is the website URL for the list of available data?
- 47 Do you have a local policy that governs your data distribution? (See Appendix for policy descriptions)
- 48 If yes, please explain.
- 48 If your organization charges for GIS data and maps is the revenue critical to funding the maintenance and development of your GIS?
- 49 Is your agency conducting any major data gathering or data creation activities or will you be doing so within a year?
- 50 What data layers are you creating or planning to create in the next year?
- 51 Is your jurisdiction collaborating with other adjoining jurisdictions on building GIS data and/or applications?
- 52 If yes, please identify the type of collaboration: (Please check all applicable boxes below.)
- 53 Does your agency use a Computer Aided Dispatch (CAD) system for emergency services?
- 53 What Computer Aided Dispatch system does your agency use?
- 55 Does the Computer Aided Dispatch have GIS/mapping capabilities?
- 55 Please check the most appropriate response. The mapping data in your Computer Aided Dispatch
- 55 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?
- 55 If yes to the above question how long does the data editing and manipulation take?
- 56 Check the most appropriate answer. The GIS mapping capabilities in Computer Aided Dispatch is 56 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?
- 57 If yes, how important would GIS improvements be?
- 57 If yes, please rank the importance of these improvements to your agency's GIS with 1 being the highest importance and 10 the lowest.
- 58 Would it be helpful to have all or part of your organization's data housed on a central server hosted by another entity?
- 59 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

Does your agency currently use GIS?

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 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 Fallbrook Public Utility District MTS NCTD **Otay Water 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 Sempra Energy Utilities **USMC** Camp Pendleton Valley Center Municipal Water District Vista Irrigation District

Count: 30

Count: 2

Borrego Water District City of National City

No

How many years has your agency been using GIS?

1-2	Count:	4
City of Imperial Beach		
City of Poway		
City of Solana Beach		
MTS		
3-4	Count:	5
City of San Marcos		
Fallbrook Public Utility District		
NCTD		
San Diego International Airport		
Valley Center Municipal Water District		
5-9	Count:	5
City of El Cajon		
City of La Mesa		
City of Vista		
San Diego Unified Port District		
Sempra Energy Utilities		
10 or more	Count:	16
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of Coronado		
City of Encinitas		
City of Escondido		
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		
USMC Camp Pendleton		
Vista Irrigation District		

Please indicate the GIS software that your agency currently employs, or software you are planning to implement
over the next year. (Current Software)

over the next year. (Current Software)		
Bentley	Count:	1
City of San Diego		
ArcGIS Desktop	Count:	30
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 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		
Fallbrook Public Utility District		
MTS		
NCTD		
Otay Water 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		
Sempra Energy Utilities		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Vista Irrigation District		
ArcGIS Server	Count:	6
City of Escondido		
City of Poway		
City of San Diego		
San Diego International Airport		
Sempra Energy Utilities		
USMC Camp Pendleton		
ArcGIS Engine	Count:	2
City of Escondido		
City of San Diego		
ArcGIS Workstation	Count:	17
Caltrans - District 11		
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

ArcGIS Workstation	Count:	17
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	Count:	12
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	Count:	1
Caltrans - District 11		
ERDAS Imagine	Count:	2
County of San Diego San Diego County Water Authority		
Intergraph	Count:	2
City of San Diego		
County of San Diego		
Smallworld	Count:	1
City of San Diego		
ease indicate the GIS software that your agency currently employs, or so	oftware you are planning to impl	ement
er the next year. (Plan To Implement Within One Year)		
ArcGIS Server	Count:	13
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		
Vista Irrigation District ArcGIS Engine	Count:	1

Please indicate the GIS software that your agency currently employs, or software you are planning to implement

Other GIS software that your agency currently employs?

ArcIMS	Count:	4
City of Chula Vista		
San Diego International Airport		
San Diego Unified Port District		
Vista Irrigation District	a /	
ArcInfo	Count:	1
Vista Irrigation District		
ArcPad	Count:	1
City of Chula Vista		
ArcReader	Count:	1
City of Santee		
ArcSDE	Count:	2
City of Chula Vista		
Vista Irrigation District		
ArcView	Count:	2
City of Santee		
San Diego Unified Port District		
ArcView 3.2-3.3	Count:	1
City of La Mesa		
ESRI Publisher	Count:	1
City of Santee		
GeoNet	Count:	1
Sempra Energy Utilities		
GTG	Count:	1
City of Imperial Beach		
Map Objects	Count:	1
City of Chula Vista		
PhotoMapper	Count:	1
City of Vista		
Trimble Geomatics Software	Count:	2
City of Chula Vista		
Fallbrook Public Utility District		
ther GIS software you are planning to implement over the next year?		
ArcExplorer	Count:	1
City of Chula Vista		
ArcIMS	Count:	2
City of Poway		
Padre Dam Municipal Water District		
ArcSDE	Count:	2
San Diego International Airport		
San Diego Unified Port District		

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

AutoCAD	Count:	25
City of Carlsbad		
City of Chula Vista		
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 Marcos		
City of Santee		
City of Solana Beach		
City of Vista		
County of San Diego		
Fallbrook Public Utility District		
NCTD		
Otay Water District		
Padre Dam Municipal Water District		
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		
ArcCAD	Count:	1
Otay Water District		
Microstation	Count:	5
Caltrans - District 11		
City of San Diego		
County of San Diego		
NCTD		
Padre Dam Municipal Water District		

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

check all that apply.)		
Oracle	Count:	7
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		
DB2	Count:	3
		Ū
City of Imperial Beach Padre Dam Municipal Water District		
San Diego Unified Port District		
-	•	
dBase	Count:	6
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		
Info	Count:	5
Caltrans - District 11		
City of Chula Vista		
City of Escondido		
San Diego Association of Governments		
San Diego Unified Port District		
	Count:	1
San Diego Unified Port District	Count:	1
San Diego Unified Port District Informix	Count: Count:	1
San Diego Unified Port District Informix City of Carlsbad		
San Diego Unified Port District Informix City of Carlsbad SQL Express		
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Encinitas	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Carlsbad City of Chula Vista City of Encinitas City of Oceanside	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Carlsbad City of Chula Vista City of Encinitas City of Dceanside City of Poway	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Encinitas City of Oceanside City of Poway City of San Diego	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Chula Vista City of Oceanside City of Oceanside City of Poway City of San Diego City of Vista	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Oceanside City of Oceanside City of Poway City of San Diego City of Vista County of San Diego	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Oceanside 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	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Carlsbad City of Chula Vista City of Chula Vista City of Oceanside 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	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Poway 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	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Carlsbad City of Chula Vista City of Ceanside 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	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Poway 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	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Carlsbad City of Chula Vista City of Ceanside 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	Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Carlsbad City of Chula Vista City of Chula Vista City of Oceanside City of Oceanside City of Poway City of San Diego 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 Access (MS Jet Engine) City of Carlsbad	Count: Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Chula Vista City of Ceanside City of Oceanside City of Oceanside City of Oceanside City of San Diego 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 City of Carlsbad City of Carlsbad City of Carlsbad City of Carlsbad City of Carlsbad	Count: Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Chula Vista City of Oceanside City of Oceanside City of Poway City of San Diego 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 Access (MS Jet Engine) City of Carlsbad City of Chula Vista City of Chula Vista City of Chula Vista City of Chula Vista City of Chula Vista	Count: Count:	1
San Diego Unified Port District Informix City of Carlsbad SQL Express County of San Diego SQL Server City of Carlsbad City of Chula Vista City of Chula Vista City of Chula Vista City of Ceanside City of Oceanside City of Oceanside City of Oceanside City of San Diego 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 City of Carlsbad City of Carlsbad City of Carlsbad City of Carlsbad City of Carlsbad	Count: Count:	1

City of San Marcos

City of Santee

County of San Diego Otay Water District Padre Dam Municipal Water District San Diego Association of Governments San Diego Unified Port District Valley Center Municipal Water District

Does your agency use ArcSDE?

Yes

Caltrans - District 11 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 Vista County of San Diego **Otay Water District** San Diego Association of Governments San Diego County Water Authority Sempra Energy Utilities **USMC** Camp Pendleton Vista Irrigation District

No

City of El Cajon City of Imperial Beach City of La Mesa City of San Marcos City of Santee City of Solana Beach Fallbrook Public Utility District MTS NCTD Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District Valley Center Municipal Water District **Count:** 16

Count: 13

Does your agency use Oracle Spatial?

City of Escondido City of Imperial Beach City of La Mesa City of Oceanside City of Poway City of San Marcos City of Santee City of Solana Beach County of San Diego Fallbrook Public Utility District

MTS NCTD

Otay Water District

Vista Irrigation 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 Sempra Energy Utilities USMC Camp Pendleton

Valley Center Municipal Water District

Yes	Count:	1
City of San Diego		
No	Count:	27
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of El Cajon		
City of Encinitas		

January, 2007

What operating system does your agency use in conjunction with GIS? (Please check all that apply)

Unix	Count:	7
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		
Solaris	Count:	3
City of Chula Vista		
City of San Diego		
San Diego County Water Authority		
Windows NT	Count:	7
City of El Cajon		
City of Escondido		
City of La Mesa		
City of San Diego		
NCTD		
Otay Water District		
San Diego County Water Authority		
Windows 2003	Count:	16
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		
Windows XP	Count:	24
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		

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	Count:	1
City of Santee	oounn	
Windows 2000	Count:	2
City of El Cajon		
County of San Diego		
Does your agency collect data with a GPS receiver?		
Yes	Count:	21
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	Count:	9
City of La Mesa		

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

How many of each grade of GPS receivers are in use?

County of San Diego

Otay Water District

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 Sempra Energy Utilities USMC Camp Pendleton Recreational (> 1 meter)

San Diego County Water Authority San Diego Unified Port District

MTS

Survey (< centimeter)	Count:	9
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		
Mapping (< 1 meter)	Count:	19
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		

Count: 5

Does your agency use these receivers regularly?

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 San Diego County of San Diego Fallbrook Public Utility District Otay Water District San Diego County Water Authority San Diego Unified Port District USMC Camp Pendleton

No

City of Imperial Beach City of Oceanside City of San Marcos City of Santee MTS San Diego Association of Governments Sempra Energy Utilities **Count:** 14

Count: 7

SDRGC Local Agency GIS Survey 2006

How many full-time employees in your organization are dedicated to GIS operations?

0	Count:	8
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		
0.5	Count:	1
MTS		
1	Count:	5
	Count:	5
City of San Marcos		
City of Santee		
San Diego Unified Port District		
USMC Camp Pendleton		
Valley Center Municipal Water District		
2	Count:	3
City of Encinitas		
Fallbrook Public Utility District		
Vista Irrigation District		
3	Count:	4
City of Escondido		
City of Oceanside		
Otay Water District		
Padre Dam Municipal Water District		
4	Count:	1
San Diego County Water Authority		
5	Count:	3
	Count.	5
City of Carlsbad		
City of Chula Vista		
San Diego International Airport		
6	Count:	2
Caltrans - District 11		
Sempra Energy Utilities		
11	Count:	1
San Diego Association of Governments		
18	Count:	1
City of San Diego		
30	Count:	1
County of San Diego		
-		

SDRGC Local Agency GIS Survey 2006

How many part-time employees in your organization are dedicated to GIS operations?

0		Count:	14
	City of La Mesa		
	City of Oceanside		
	City of Poway		
	City of Santee		
	City of Solana Beach		
	City of Vista		
	County of San Diego		
	Fallbrook Public Utility District		
	MTS		
	NCTD		
	San Diego County Water Authority		
	San Diego International Airport		
	San Diego Unified Port District		
	Valley Center Municipal Water District		
1		Count:	5
	Caltrans - District 11		
	City of Encinitas		
	City of Imperial Beach		
	Otay Water District		
	Vista Irrigation District		
2		Count:	3
	City of Carlsbad		
	City of San Marcos		
	San Diego Association of Governments		
3		Count:	3
	City of Chula Vista		
	City of Coronado		
	City of Escondido		
5		Count:	1
	City of San Diego		
1	0	Count:	1
	-	Jount.	I
	City of El Cajon		

SDRGC Local Agency GIS Survey 2006

How many contract employees or independent consultants are dedicated to GIS operations?

0	Count:	14
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	Count:	1
Caltrans - District 11		
1	Count:	8
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	Count:	1
City of Carlsbad		
5	Count:	1
San Diego International Airport		
7	Count:	1
City of Encinitas		
10	Count:	1
USMC Camp Pendleton		
12	Count:	1
City of San Diego		
ony of our progo		

SDRGC Local Agency GR	5 Sulvey 2000		
Besides your dedicated GIS staff, how many other staff within your organization use GIS on a casual or periodic basis?			
0	Count:	1	
NCTD			
1 - 5	Count:	9	
City of Coronado			
City of Oceanside			
City of Poway			
City of Solana Beach			
Fallbrook Public Utility District			
Padre Dam Municipal Water District			
San Diego Unified Port District			
Valley Center Municipal Water District			
Vista Irrigation District			
6 - 10	Count:	9	
City of Carlsbad			
City of Chula Vista			
City of El Cajon			
City of Imperial Beach			
City of La Mesa			
City of San Marcos			
City of Vista			
MTS			
San Diego Association of Governments			
11 - 50	Count:	4	
Caltrans - District 11			
City of Santee			
San Diego County Water Authority			
Sempra Energy Utilities			
51 - 100	Count:	1	
City of Encinitas			
> 100	Count:	6	
City of Escondido			
City of San Diego			
County of San Diego			
Otay Water District			
-			
San Diego International Airport			

USMC Camp Pendleton

021100 <u>2000</u>		
/hat is your annual operating budget for GIS? (For multi-regional age	encies please provide figures for the	e San
<\$100,000	Count:	14
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		
City of Vista		
Fallbrook Public Utility District		
MTS		
NCTD		
San Diego Unified Port District		
Vista Irrigation District		
\$100,000-\$200,000	Count:	2
Sempra Energy Utilities		
Valley Center Municipal Water District		
\$200,000-\$300,000	Count:	5
City of Carlsbad		
City of Escondido		
Otay Water District		
Padre Dam Municipal Water District		
San Diego International Airport		
\$300,000-\$500,000	Count:	2
Caltrans - District 11		
City of Chula Vista		
\$500,000-\$700,000	Count:	1
City of Encinitas		
\$700,000-\$1,000,000	Count:	2
San Diego Association of Governments		
San Diego County Water Authority		
>\$1,000,000	Count:	3
City of San Diego		
County of San Diego		

USMC Camp Pendleton

How does your agency fund its GIS operating budget?

Single budgetary item	Count:	8
City of Santee		
Fallbrook Public Utility District		
MTS		
NCTD		
Padre Dam Municipal Water District		
San Diego International Airport		
Sempra Energy Utilities		
Valley Center Municipal Water District		
Included in multiple departmental budgets	Count:	3
City of El Cajon		
City of San Marcos		
San Diego Unified Port District		
Both single budgetary item and in multiple departmental budgets	Count:	17
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of Coronado		
City of Encinitas		
City of Escondido		
City of Imperial Beach		
City of La Mesa		
City of Poway		
City of San Diego		
City of Vista		
County of San Diego		
Otay Water District		
San Diego Association of Governments		
San Diego County Water Authority		
USMC Camp Pendleton Vista Irrigation District		

How are your GIS functions maintained?

Sempra Energy Utilities USMC Camp Pendleton

By multiple departments	Count:	1
City of El Cajon		
Centrally	Count:	15
City of Encinitas		
City of Imperial Beach		
City of San Marcos		
City of Santee		
Fallbrook Public Utility District		
MTS		
NCTD		
Otay Water 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		
Centrally and by multiple departments	Count:	13
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of Coronado		
City of Escondido		
City of La Mesa		
City of Oceanside		
City of Poway		
City of San Diego		
City of Vista		
County of San Diego		

Assessment / Equalization		
Advanced user of GIS software	Count:	1
County of San Diego		
Casual use of GIS software	Count:	2
Otay Water District San Diego International Airport		
End user of mapping applications	Count:	1
San Diego Unified Port District		
Emergency Management		
Casual use of GIS software	Count:	6
City of La Mesa City of San Diego City of San Marcos City of Vista County of San Diego San Diego International Airport		
End user of mapping applications	Count:	12
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Oceanside 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		

Engineering

Advanced user of GIS software	Count:	8
City of Carlsbad City of El Cajon		
City of Poway City of Vista		
Padre Dam Municipal Water District		
San Diego International Airport		
Valley Center Municipal Water District		
Vista Irrigation District		
Casual use of GIS software	Count:	10
Caltrans - District 11		
City of Coronado		
City of La Mesa		
City of San Diego		
City of San Marcos		
City of Solana Beach		
County of San Diego		
Otay Water District		
San Diego Association of Governments		
USMC Camp Pendleton		
End user of mapping applications	Count:	9
City of Chula Vista		
City of Encinitas		
City of Escondido		
City of Imperial Beach		
City of Oceanside		
MTS		
San Diego County Water Authority		
San Diago Unified Port District		

San Diego Unified Port District

Sempra Energy Utilities

Environmental		
Advanced user of GIS software	Count:	4
City of San Diego County of San Diego San Diego International Airport USMC Camp Pendleton		
Casual use of GIS software	Count:	6
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	Count:	9
Caltrans - District 11 City of Carlsbad City of Chula Vista City of Escondido City of Oceanside City of Poway City of Poway City of Vista Fallbrook Public Utility District Padre Dam Municipal Water District		
Fire Dept		
Advanced user of GIS software	Count:	2
City of El Cajon		
City of San Diego		
Casual use of GIS software	Count:	6
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	Count:	7
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	Count:	1
County of San Diego		
End user of mapping applications	Count:	1

Human Services		
Advanced user of GIS software	Count:	1
County of San Diego		
Casual use of GIS software	Count:	1
City of San Marcos		
End user of mapping applications	Count:	3
City of Encinitas	oount.	0
City of Poway		
City of Vista		
Information Technology		
Advanced user of GIS software	Count:	7
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	Count:	1
San Diego International Airport	•	
End user of mapping applications	Count:	2
City of Poway		
City of Vista		
Planning		
Advanced user of GIS software	Count:	7
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		
	Count	0
Casual use of GIS software	Count:	9
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	Count:	7
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

Police Dept		
Advanced user of GIS software	Count:	3
City of El Cajon City of San Diego County of San Diego		
Casual use of GIS software	Count:	6
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	Count:	2
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	Count:	4
Casual use of GIS software	Count:	2
City of Carlsbad City of Poway		
End user of mapping applications	Count:	6
Caltrans - District 11 City of Escondido City of Vista San Diego County Water Authority San Diego Unified Port District Sempra Energy Utilities		

Public Works		
Advanced user of GIS software	Count:	7
City of Carlsbad		
City of Coronado		
City of El Cajon City of Imperial Beach		
City of San Diego		
County of San Diego		
USMC Camp Pendleton		
Casual use of GIS software	Count:	5
City of Chula Vista		
City of Escondido		
City of La Mesa		
City of San Marcos San Diego International Airport		
End user of mapping applications	Count:	9
City of Encinitas		
City of Oceanside		
City of Poway		
City of Santee		
City of Solana Beach		
City of Vista Otay Water District		
San Diego County Water Authority		
San Diego Unified Port District		
Registrar of Deeds		
Advanced user of GIS software	Count:	1
County of San Diego		
End user of mapping applications	Count:	1
Caltrans - District 11		
Transportation		
Advanced user of GIS software	Count:	2
County of San Diego		
San Diego Association of Governments		
Casual use of GIS software	Count:	3
City of Oceanside		
City of San Diego		
City of San Marcos	Counts	5
End user of mapping applications	Count:	5
City of Carlsbad City of Escondido		
City of Vista		
MTS		
USMC Camp Pendleton		

Please list other departments not included above.

Agriculture	Count:	1
County of San Diego		
Air Pollution Control	Count:	1
County of San Diego		
ARJIS	Count:	1
San Diego Association of Governments		
Community Housing Development	Count:	1
County of San Diego		
Crimal Justice Division	Count:	1
San Diego Association of Governments		
District Attorney	Count:	1
County of San Diego		
Environmental Health	Count:	1
County of San Diego		
General Services	Count:	1
County of San Diego		
Growth Estimates and Forecasts	Count:	1
San Diego Association of Governments		
Office of Fianancial Planning	Count:	1
County of San Diego		
Parks & Recreation	Count:	1
County of San Diego		
Probation	Count:	1
County of San Diego		
Registrar of Voters	Count:	1
County of San Diego		
Service Bureau	Count:	1
San Diego Association of Governments		

Which of the following types of GIS applications have been implemented by your agency? (Check all that apply.)

apply.)		
Crime tracking	Count:	8
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		
Disease control	Count:	1
County of San Diego		
Environmental	Count:	13
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		
		40
Property record management and taxation	Count:	13
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		
Emergency preparedness and response	Count:	14
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 County Water Authority San Diego Unified Port District		
San Diego County Water Authority San Diego Unified Port District Valley Center Municipal Water District		

Vista Irrigation District		
Hazardous Materials Management	Count:	6
City of Carlsbad		-
City of Chula Vista		
County of San Diego		
NCTD		
San Diego International Airport		
USMC Camp Pendleton		
Vehicle and field force routing	Count:	5
City of Carlsbad		
City of El Cajon		
City of San Diego		
Otay Water District		
Sempra Energy Utilities		
Computer Aided Dispatch (CAD)	Count:	10
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	Count:	2
City of Escondido		_
City of San Diego		
Permitting	Count:	9
City of Carlsbad	oounn	0
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	Count:	9
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	Count:	17
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of El Cajon		

City of Imperial Beach City of La Mesa

	•	
City of San Diego City of San Marcos		
County of San Diego		
Fallbrook Public Utility District		
Otay Water District		
San Diego County Water Authority		
San Diego International Airport		
San Diego Unified Port District		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Infrastructure and facilities management (asset management)	Count:	17
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of El Cajon		
City of Encinitas		
City of Escondido		
City of Imperial Beach		
City of La Mesa		
City of San Diego		
County of San Diego		
NCTD		
Otay Water District		
Padre Dam Municipal Water District		
San Diego County Water Authority		
San Diego International Airport		
USMC Camp Pendleton		
Vista Irrigation District		
Financial reporting (GASBY 34)	Count:	4
City of Chula Vista		
City of Escondido		
County of San Diego		
Otay Water District		
Remote sensing classification of aerial/satellite imagery	Count:	7
Caltrans - District 11		
City of Imperial Beach		
City of San Diego		
County of San Diego		
Otay Water District		
San Diego County Water Authority		
USMC Camp Pendleton		
Softcopy photogrametry	Count:	2
City of Carlsbad		
City of San Diego		
Hydrologic & Hydraulic Modeling and Analysis	Count:	9
Caltrans - District 11		
City of Carlsbad		
City of Oceanside		
City of San Diego		
Fallbrook Public Utility District		
Padre Dam Municipal Water District		
San Diego County Water Authority		
Valley Center Municipal Water District		
Vista Irrigation District		

Transportation Modeling	Count:	5
Caltrans - District 11		
City of Carlsbad		
City of Oceanside		
MTS		
San Diego Association of Governments		
Long range planning and urban growth monitoring	Count:	6
Caltrans - District 11		
City of Carlsbad		
County of San Diego		
San Diego Association of Governments		
San Diego Unified Port District		
Valley Center Municipal Water District		
None	Count:	1
City of Santee		
Sewer / Storm Water	Count:	2
City of El Cajon		
Padre Dam Municipal Water District		

What programming languages does your agency use in conjunction with GIS? (Check all that apply)

vital programming languages does your agency use in conjunction with GIS? (Check an t	nat apply)	
AML	Count:	10
Caltrans - District 11		
City of Carlsbad		
City of Escondido		
City of San Diego		
County of San Diego		
Otay Water District		
San Diego Association of Governments		
San Diego County Water Authority		
San Diego Unified Port District		
USMC Camp Pendleton		
Avenue	Count:	8
City of El Cajon		
City of Escondido		
City of Imperial Beach		
City of San Diego		
City of Santee		
County of San Diego		
Otay Water District		
Padre Dam Municipal Water District		
Python	Count:	11
Caltrans - District 11		
Callans - District 11		
City of Chula Vista		
City of Encinitas		
City of Escondido		
City of Oceanside		
County of San Diego		
San Diego Association of Governments		
San Diego County Water Authority		
Sempra Energy Utilities		
Vista Irrigation District		
C#	Count:	1
	oount.	I
San Diego Association of Governments	_	
C++	Count:	3
City of Carlsbad		
San Diego Association of Governments		
Vista Irrigation District		
Java	Count:	6
Caltrans - District 11		
City of Carlsbad		
City of Escondido		
City of San Diego		
County of San Diego		
Sempra Energy Utilities		
Visual Basic	Count:	13
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of El Cajon		
City of Encinitas		
City of Oceanside		

City of San Diego

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
	Count.	0
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
	oount.	0
City of Chula Vista		
City of Oceanside Otay Water District		
San Diego Association of Governments		
San Diego International Airport		
XML	Count:	11
	count.	
City of Carlsbad		
City of Chula Vista City of Escondido		
City of Escolutio		
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 Diago		

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?

CityView - code enforcement	Count:	1
City of Encinitas		
Cityworks - asset management system	Count:	1
City of Encinitas		
Consumption data (i5 series-IBM)	Count:	1
Padre Dam Municipal Water District		
County Assessor Database	Count:	7
City of Carlsbad		
City of Chula Vista		
City of Escondido		
City of Imperial Beach		
City of San Marcos		
City of Vista		
Otay Water District		
customer database	Count:	1
Valley Center Municipal Water District		
Customer Utility Billing System	Count:	1
Vista Irrigation District		
Document Management System	Count:	1
Vista Irrigation District		
HDL - property data	Count:	1
City of Encinitas		
Land Use Inventory	Count:	1
City of Chula Vista		
Laserfiche - document management system	Count:	2
City of Chula Vista		
City of Encinitas		
Permit database (Accela)	Count:	1
City of Chula Vista		
SANGIS	Count:	1
Sempra Energy Utilities		
SanGIS Data (Parcels/Lots/Street Centerline)	Count:	1
Vista Irrigation District		
Valve Maintenance Database	Count:	1
Vista Irrigation District		
Water/Sewer utility billing; CarteGraph	Count:	1
City of Poway		
Work Order Management Database	Count:	1
Vista Irrigation District		
Work Order Management database (GBA)	Count:	1
City of Chula Vista		

What mobile GIS applications does your agency use? Please indicate application name and general use.

ArcPad	Count:	
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		
ArcReader on field laptops.	Count:	
San Diego County Water Authority		
Field tablet PC	Count:	
Otay Water District		
Trimble	Count:	
Caltrans - District 11		
City of Chula Vista		
Does your agency have any internet/intranet mapping applications?		
Yes	Count:	
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		
Νο	Count:	1
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

What internet/intranet mapping applications are in the works? (Enter `None' if none)

ArcIMS	Count:	1
Sempra Energy Utilities		
EZoning - application to offer easy to understand zoning information to the public. The first release of this just occurred. But this will be expanded significantly over the next year.	Count:	1
City of Chula Vista		
Inter Governmental Review (IGR)	Count:	1
San Diego Association of Governments		
Landscape Area Measurement tool.	Count:	1
San Diego County Water Authority		
None	Count:	4
City of Encinitas City of Escondido San Diego Unified Port District Valley Center Municipal Water District		
Traffic Count/Classification Data Inventory, Traffic Operations Field Elements Inventory	Count:	1
Caltrans - District 11		
WebEOC Resource Locator, Property Viewer, HHSA Community Data Portal	Count:	1
County of San Diego		
Will implement 3rd party mapping application for internet access	Count:	1
City of Carlsbad		

What internet mapping software does your agency currently use, or will implement within the next year? (Check

Google Earth	Count:	:
Caltrans - District 11		
San Diego Association of Governments		
ArcIMS	Count:	1
	Count.	13
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	Count:	
City of San Diego		
/lapGuide	Count:	
City of Vista		
at internet mapping software does your agency currently use, or	will implement within the next year? ((heck
applicable) (Plan To Implement Within One Year)		
	Count:	
Google Maps	Count:	
Google Maps San Diego Association of Governments		
Google Maps San Diego Association of Governments Google Earth	Count: Count:	
Google Maps San Diego Association of Governments Google Earth Sempra Energy Utilities	Count:	
Google Maps San Diego Association of Governments Google Earth Sempra Energy Utilities		
Google Maps San Diego Association of Governments Google Earth Sempra Energy Utilities	Count:	
Google Maps San Diego Association of Governments Google Earth Sempra Energy Utilities ArcIMS County of San Diego	Count:	
Google Maps San Diego Association of Governments Google Earth Sempra Energy Utilities ArcIMS County of San Diego	Count: Count:	
Google Maps San Diego Association of Governments Google Earth Sempra Energy Utilities ArcIMS County of San Diego ArcGIS Server	Count: Count:	
Google Maps San Diego Association of Governments Google Earth Sempra Energy Utilities ArcIMS County of San Diego ArcGIS Server Caltrans - District 11	Count: Count:	
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	Count: Count:	
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	Count: Count:	
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	Count: Count:	
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	Count: Count:	
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 Encinitas City of Escondido City of Vista County of San Diego	Count: Count:	
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	Count: Count:	
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 Encinitas City of Escondido City of Vista County of San Diego San Diego Association of Governments San Diego County Water Authority	Count: Count:	

Please specify any other internet mapping software you use that is not included in the above list.

Geocortex IMF	Count:	2
City of Encinitas Sempra Energy Utilities		
Map Objects	Count:	1
San Diego Association of Governments		
Moxy Media Internet Mapping Framework	Count:	1
County of San Diego		
SVG Map Viewer	Count:	1
County of San Diego		

What is the coordinate reference system used by your agency?

Localized		
NAD83	Count:	7
Caltrans - District 11		
City of Coronado		
City of El Cajon		
City of Vista		
San Diego County Water Authority		
San Diego International Airport		
Vista Irrigation District		
<u>UTM</u>		
 NAD83	Count:	6
	Count.	0
Caltrans - District 11		
City of Coronado		
City of El Cajon		
City of Vista		
County of San Diego		
Fallbrook Public Utility District		
Geographic (Latitude/Longitude)		
NAD83	Count:	5
City of Carlsbad		
City of Coronado		
City of Solana Beach		
City of Vista		
San Diego County Water Authority		
State plane		
NAD83	Count:	25
Caltrans - District 11		
City of Carlsbad		
City of Carlsbad City of Chula Vista		
City of Carlsbad City of Chula Vista City of Coronado		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Imperial Beach		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Imperial Beach City of Oceanside		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Imperial Beach City of Oceanside City of San Marcos		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Imperial Beach City of Oceanside City of San Marcos City of Santee		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Imperial Beach City of Oceanside City of San Marcos City of Santee City of Solana Beach		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Escondido City of Imperial Beach City of Oceanside City of San Marcos City of Santee City of Santee City of Solana Beach City of Vista County of San Diego MTS		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Escondido City of Imperial Beach City of Oceanside City of San Marcos City of San Marcos City of Santee City of Solana Beach City of Vista County of San Diego MTS NCTD		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Escondido City of Imperial Beach City of Oceanside City of Oceanside City of San Marcos City of Santee City of Solana Beach City of Solana Beach City of Vista County of San Diego MTS NCTD Otay Water District		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Imperial Beach City of Oceanside City of Oceanside City of San Marcos City of Santee City of Solana Beach City of Solana Beach City of Vista County of San Diego MTS NCTD Otay Water District Padre Dam Municipal Water District		
City of CarlsbadCity of Chula VistaCity of CoronadoCity of CoronadoCity of EscondidoCity of EscondidoCity of Imperial BeachCity of OceansideCity of OceansideCity of San MarcosCity of SanteeCity of Solana BeachCity of VistaCounty of San DiegoMTSNCTDOtay Water DistrictPadre Dam Municipal Water DistrictSan Diego Association of Governments		
City of CarlsbadCity of Chula VistaCity of CoronadoCity of CoronadoCity of EncinitasCity of EscondidoCity of Imperial BeachCity of OceansideCity of OceansideCity of San MarcosCity of SanteeCity of Solana BeachCity of VistaCounty of San DiegoMTSNCTDOtay Water DistrictPadre Dam Municipal Water DistrictSan Diego County Water Authority		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Escondido City of Imperial Beach City of Oceanside City of Oceanside City of San Marcos City of San Marcos City of Santee City of Solana Beach City of Vista County of San Diego MTS NCTD Otay Water District Padre Dam Municipal Water District San Diego Association of Governments San Diego County Water Authority San Diego International Airport		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Encinitas City of Escondido City of Imperial Beach City of Oceanside City of Oceanside City of San Marcos City of San Marcos City of Solana Beach City of Solana Beach City of Vista County of San Diego MTS NCTD Otay Water 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		
City of Carlsbad City of Chula Vista City of Coronado City of Encinitas City of Escondido City of Imperial Beach City of Oceanside City of Oceanside City of San Marcos City of San Marcos City of Santee City of Solana Beach City of Solana Beach City of Vista County of San Diego MTS NCTD Otay Water District Padre Dam Municipal Water District San Diego Association of Governments San Diego County Water Authority San Diego International Airport		

Valley Center Municipal Water District

Vista Irrigation District

What is the coordinate reference system used by your agency?

Albers		
NAD83	Count:	2
Caltrans - District 11		
City of Coronado		
<u>Other</u>		
NAD83	Count:	2
City of Coronado		
County of San Diego		
Does your agency use data from SanGIS?		
Yes	Count:	26
Caltrans - District 11		
City of Carlsbad		
City of Coronado		
City of El Cajon		
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		
Fallbrook Public Utility District		
MTS		
NCTD		
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		
Valley Center Municipal Water District		
Vista Irrigation District		
No	Count:	4
City of Chula Vista		

City of Encinitas Otay Water District

San Diego International Airport

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)

(Please check all applicable)		
Parcels	Count:	24
	Count.	24
Caltrans - District 11		
City of Carlsbad		
City of Coronado		
City of El Cajon City of Escondido		
City of Imperial Beach City of La Mesa		
City of Poway		
City of San Diego		
City of San Marcos		
City of Santee		
City of Vista		
County of San Diego		
Fallbrook Public Utility District		
MTS		
NCTD		
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		
Valley Center Municipal Water District		
Vista Irrigation District		
Lots	Count:	12
City of El Cajon		
City of La Mesa		
City of Poway		
City of San Diego		
City of Vista		
County of San Diego		
Fallbrook Public Utility District		
MTS		
San Diego Unified Port District		
Sempra Energy Utilities		
Valley Center Municipal Water District		
Vista Irrigation District		
Street Center Lines	Count:	22
Caltrans - District 11		
City of Carlsbad		
City of El Cajon		
City of Escondido		
City of Imperial Beach		
City of La Mesa		
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		
Fallbrook Public Utility District		
MTC		

MTS

NCTD San Diego Association of Governments San Diego County Water Authority San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District		
Other (please specify)	Count:	7
City of El Cajon Fallbrook Public Utility District MTS Padre Dam Municipal Water District San Diego County Water Authority San Diego Unified Port District Valley Center Municipal Water District		
If you do not use the SanGIS layers listed above, do you maintain these data layers in-house	?	
Yes	Count:	11
City of Chula Vista		
City of Chula Vista City of Encinitas		
City of Encinitas City of Oceanside		
City of Encinitas City of Oceanside NCTD		
City of Encinitas City of Oceanside NCTD Otay Water District		
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District		
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport		
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District		
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District Sempra Energy Utilities		
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District Sempra Energy Utilities USMC Camp Pendleton		
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District Sempra Energy Utilities USMC Camp Pendleton Vista Irrigation District	Gaunti	4
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District Sempra Energy Utilities USMC Camp Pendleton Vista Irrigation District No	Count:	4
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District Sempra Energy Utilities USMC Camp Pendleton Vista Irrigation District No City of Imperial Beach	Count:	4
City of Encinitas City of Oceanside NCTD Otay Water District Padre Dam Municipal Water District San Diego International Airport San Diego Unified Port District Sempra Energy Utilities USMC Camp Pendleton Vista Irrigation District No	Count:	4

San Diego County Water Authority

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

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 City of Vista County of San Diego Fallbrook Public Utility District MTS NCTD **Otay Water 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 Sempra Energy Utilities **USMC** Camp Pendleton Valley Center Municipal Water District

No

City of La Mesa City of Poway City of Solana Beach Vista Irrigation District Count: 4

Count:

26

Is there metadata on GIS layers that are maintained by your agency?

Yes	Count:	12
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of El Cajon		
City of Encinitas		
City of Escondido		
City of San Marcos		
County of San Diego		
Fallbrook Public Utility District		
San Diego Association of Governments		
San Diego County Water Authority		
USMC Camp Pendleton		
Νο	Count:	9
	counti	^o
City of Imperial Beach		
City of Santee		
City of Vista MTS		
Otay Water District		
Padre Dam Municipal Water District		
San Diego International Airport		
San Diego Unified Port District		
Valley Center Municipal Water District		
ves, does the metadata meet the minimum FGDC standard?		
Yes	Count:	8
Caltrans - District 11		
City of Chula Vista		
City of Encinitas		
City of San Marcos		
Fallbrook Public Utility District		
San Diego Association of Governments		
San Diego County Water Authority		
USMC Camp Pendleton		
Νο	Count:	8
	counti	U
City of Carlsbad		
City of El Cajon		
City of Escondido		
City of Imperial Beach		
City of Vista		
County of San Diego		

San Diego International Airport San Diego Unified Port District

Does your organization maintain a consolidated list of available data?

Yes	Count:	12
Caltrans - District 11		
City of Chula Vista		
City of Escondido		
City of San Marcos		
County of San Diego		
MTS		
Otay Water District		
San Diego Association of Governments		
San Diego International Airport		
San Diego Unified Port District		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Νο	Count:	10
City of Carlsbad		
City of El Cajon		
City of Encinitas		
City of Imperial Beach		
City of Oceanside		
City of Santee		
City of Vista		
Fallbrook Public Utility District		
Padre Dam Municipal Water District		
San Diego County Water Authority		
yes, how is the list available? (Please check all that apply)		
Hardcopy	Count:	6
City of San Marcos		
MTS		
San Diego Association of Governments		
San Diego Unified Port District		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Internet	Count:	3
Caltrans - District 11		
County of San Diego		
San Diego Association of Governments		
Intranet	Count:	5
	Count.	5
Caltrans - District 11		
City of Chula Vista		
City of Escondido		
Otay Water District		
San Diego Association of Governments		
San Diego Association of Governments CERES	Count:	2
San Diego Association of Governments	Count:	2
San Diego Association of Governments CERES	Count:	2
San Diego Association of Governments CERES City of Chula Vista	Count: Count:	2

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		
Νο	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		

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	count.	1
	Counts	4
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		
your organization charges for GIS data and maps is the revenue critical to funding the r evelopment of your GIS?	naintenance and	L
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		
San Diego Unified Port District		
USMC Camp Pendleton		

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

Yes	Count:	19
Caltrans - District 11		
City of Chula Vista		
City of El Cajon		
City of Encinitas		
City of Escondido		
City of Poway		
City of San Marcos		
City of Vista		
County of San Diego		
Fallbrook Public Utility District		
MTS		
Otay Water 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		
USMC Camp Pendleton		
Valley Center Municipal Water District		
No	Count:	7

No

City of Carlsbad City of Imperial Beach City of La Mesa City of Oceanside City of Santee City of Solana Beach Vista Irrigation District

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

Buildings	Count:	1
USMC Camp Pendleton		
Bus routes update	Count:	1
MTS		
Bus stop inventories update	Count:	1
MTS		
Cadastral and related data	Count:	1
City of Encinitas		
Commerical/Industrial Square Footage	Count:	1
San Diego Association of Governments		
Easements/ROW	Count:	4
City of Poway Fallbrook Public Utility District Otay Water District Padre Dam Municipal Water District		
Environmental	Count:	1
USMC Camp Pendleton		
Fire Pre-Planning layers	Count:	1
City of Chula Vista		
Fire/Public Safety data	Count:	3
City of Encinitas City of Poway County of San Diego		
Imagery	Count:	1
San Diego County Water Authority	oount.	
Land Use Inventory	Count:	2
City of Escondido		-
City of San Marcos		
Meter data information	Count:	1
Otay Water District		
Park infrastructure layers	Count:	1
City of Encinitas		
Proposed Development	Count:	2
Caltrans - District 11		
City of Escondido		
Sewer improvement district data	Count:	1
Otay Water District		
Signage Inventory	Count:	2
Caltrans - District 11 City of San Marcos		
Stormwater Network/BMPs	Count:	2
City of Encinitas	oount.	2
City of San Marcos		
Street infrastructure layers	Count:	1
City of Encinitas		
Street Lights	Count:	1
City of San Marcos		

	. .	
Traffic Operations Field Elements	Count:	1
Caltrans - District 11		
Trails	Count:	1
City of San Marcos		
Transit Station inventory update	Count:	1
MTS		
Transportation	Count:	1
USMC Camp Pendleton		
Traveler Info	Count:	1
Caltrans - District 11		
Utilities	Count:	3
Caltrans - District 11		-
San Diego Unified Port District		
USMC Camp Pendleton		
Utility service areas	Count:	1
City of Escondido		
Water districts	Count:	2
City of Escondido		
Otay Water District		
Water/Sewer Utilities	Count:	4
City of Poway		
Fallbrook Public Utility District		
Padre Dam Municipal Water District		
Valley Center Municipal Water District		
Zoning	Count:	1
City of Poway		
Is your jurisdiction collaborating with other adjoining jurisdictions on building	GIS data and/or applications?	-
Yes	Count:	9
Caltrans - District 11		
City of Chula Vista		
City of Encinitas		
City of San Marcos		
County of San Diego		
Otay Water District San Diego Association of Governments		
San Diego Association of Governments San Diego County Water Authority		
San Diego Unified Port District		
Νο	Count:	8
City of El Cajon		-
City of Escondido		
Fallbrook Public Utility District		
MTS		
Padre Dam Municipal Water District		
San Diego International Airport		
USMC Camp Pendleton Valley Center Municipal Water District		

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

Federal		
Data	Count:	1
San Diego Association of Governments		
State		
Data	Count:	2
Caltrans - District 11 San Diego Association of Governments		
Regional		
Applications	Count:	1
City of Encinitas		
Data	Count:	6
Caltrans - District 11 City of Encinitas City of Poway San Diego Association of Governments San Diego County Water Authority San Diego Unified Port District		
Financial	Count:	2
City of Encinitas San Diego Unified Port District		
Policy or Procedural	Count:	2
City of Poway San Diego County Water Authority		
Standards	Count:	1
City of Encinitas		
County		
Data	Count:	3
Caltrans - District 11 City of Chula Vista San Diego Association of Governments		

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

Local		
Applications	Count:	1
City of Vista		
Data	Count:	5
Caltrans - District 11 City of Chula Vista City of Vista County of San Diego San Diego Association of Governments		
Financial	Count:	3
City of San Marcos City of Vista County of San Diego		
Hardware	Count:	1
City of Vista		
Policy or Procedural City of Vista County of San Diego Otay Water District	Count:	3
Standards	Count:	1
City of Vista		

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

Yes	Count:	14
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		
No	Count:	14
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		
USMC Camp Pendleton Valley Center Municipal Water District		

What Computer Aided Dispatch system does your agency use?

Agency	<u>Software</u>	Vendor
City of Carlsbad		Tiburon
City of Chula Vista	LifeLine CAD	Cross Current
City of Escondido	Command Point	Northrop Grumman
City of La Mesa		West Covina service group - WCPD
City of Oceanside	VisiCad	Tri-Tech
County of San Diego	Intergraph	Intergraph
Otay Water District	Arclogistic	Rout smart
San Diego Unified Port District	First Call CAD	Logisys

Does the Computer Aided Dispatch have GIS/mapping capabilities?

Yes	Count:	7
City of Carlsbad		
City of Chula Vista		
City of Escondido		
City of Oceanside		
City of Vista		
County of San Diego		
Otay Water District		
No	Count:	4
Caltrans - District 11		
City of Encinitas		
City of La Mesa		
San Diego Unified Port District		
Please check the most appropriate response. The mapping data in your Computer Aid	ed Dispatch	
Utilizes the same GIS Data that is used in other parts of your organization	Count:	4
City of Carlsbad		
City of Chula Vista		
County of San Diego		
Otay Water District		
Input separately and is standalone	Count:	7
Caltrans - District 11		
City of Encinitas		
City of Escondido		
City of La Mesa		
City of Oceanside		
City of Vista		
-		
San Diego Unified Port District		_
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Check the most appropriate answer. The GIS mapping capabilities in Computer Aided Dispatch is

City of Escondido Otay Water DistrictCount:6Fuilt into the Computer Aided Dispatch systemCount:6City of Carlsbad City of Chula Vista City of Counaside County of San Diego DistrictSan Diego Unified Port DistrictTreterera funding were available for homeland security needs in general would your agency utilize a portion of the System?YesCount:2Caltrans - District 11 City of Chula Vista City of Chula Vista City of Escondido City of Escondido City of La Mesa City of Santee City of Santee City of Santee City of Santee City of Solana Beach City of Solana Beach 	Built on existing GIS software	Count:	2
Built into the Computer Aided Dispatch system Count: 6 City of Carlsbad City of Chula Vista Support C	City of Escondido		
City of Carlsbad City of Chula Vista City of Chula Vista City of Carlsbad City of Coeanside County of San Diego San Diego Unified Port District 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? Yes Count: 22 Caltrans - District 11 City of Chula Vista 21 City of Chula Vista City of Chula Vista 22 City of Chula Vista City of Chula Vista 22 City of Chula Vista City of Chula Vista 23 City of Chula Vista City of Chula Vista 24 City of Coeanside City of Coeanside 24 City of Poway City of Poway 24 City of San Marcos City of Solana Beach 24 City of Solana Beach City of Vista 25 County of San Diego MTS 25 Otay Water District 26 27 Padre Dam Municipal Water District 26 27 San Diego County Water Authority 28 28 26 San Diego Unified Port District USMC Camp Pendleton 28 28	Otay Water District		
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City of Carlsbad City of Chula Vista City of Encinitas City of Escondido City of Escondido City of La Mesa City of Oceanside City of Oceanside City of Oceanside City of Poway City of San Marcos City of San Marcos City of Sana Beach City of Solana Beach City of Solana Beach City of Vista County of San Diego MTS Otay Water District Padre Dam Municipal Water District San Diego County Water Authority San Diego International Airport San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	Yes	Count:	22
City of Chula Vista City of Encinitas City of Escondido City of La Mesa City of Oceanside City of Oceanside City of Poway City of San Marcos City of Santee City of Solana Beach City of Solana Beach City of Vista County of San Diego MTS Otay Water District Padre Dam Municipal Water District San Diego County Water Authority San Diego International Airport San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	Caltrans - District 11		
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City of Santee City of Solana Beach City of Vista County of San Diego MTS Otay Water District Padre Dam Municipal Water District San Diego County Water Authority San Diego International Airport San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	City of Poway		
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MTS Otay Water District Padre Dam Municipal Water District San Diego County Water Authority San Diego International Airport San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	City of Vista		
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Padre Dam Municipal Water District San Diego County Water Authority San Diego International Airport San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	MTS		
San Diego County Water Authority San Diego International Airport San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	Otay Water District		
San Diego International Airport San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	Padre Dam Municipal Water District		
San Diego Unified Port District USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	San Diego County Water Authority		
USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District	San Diego International Airport		
Valley Center Municipal Water District Vista Irrigation District	San Diego Unified Port District		
Vista Irrigation District	USMC Camp Pendleton		
	Valley Center Municipal Water District		
No Count: 3	Vista Irrigation District		
	Νο	Count:	3
City of Imperial Beach	City of Imperial Beach		

Fallbrook Public Utility District

San Diego Association of Governments

If yes, how important would GIS improvements be?

i yes, now important would GIS improvements be:		
Major priority	Count:	13
City of Chula Vista		
City of Encinitas		
City of Escondido		
City of La Mesa		
City of San Marcos		
City of Santee		
City of Vista		
County of San Diego		
MTS		
Otay Water District		
San Diego County Water Authority		
San Diego Unified Port District		
USMC Camp Pendleton		
Minor priority	Count:	9
Caltrans - District 11		
City of Carlsbad		
City of Imperial Beach		
City of Poway		
City of Solana Beach		
Padre Dam Municipal Water District		
San Diego International Airport		
Valley Center Municipal Water District		
Vista Irrigation District		
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.	
Improve maintenance (data updates) 72%		
Hire staff 719		
Build additional layers 65%		
Design a system architecture for enterprise GIS 639		
Implement applications 56%		
Increase accuracy 56%	6	

41%

39%

33%

31%

Hire consultants

Create interjurisdictional GIS layers or regional layers

Acquire hardware, software, or telecommunication systems for data

Train staff

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

Yes	Count:	6
City of Escondido		
City of La Mesa		
City of Santee		
MTS		
Otay Water District		
USMC Camp Pendleton		
No	Count:	17
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		

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

operations? (Please check all that apply)		
Access to data	Count:	21
Caltrans - District 11		
City of Chula Vista		
City of Escondido		
City of La Mesa		
City of Oceanside		
City of Poway		
City of San Marcos		
City of Santee		
County of San Diego		
County of San Diego		
Fallbrook Public Utility District		
MTS		
Otay Water District		
Padre Dam Municipal Water District		
San Diego County Water Authority		
San Diego County Water Authority		
San Diego International Airport		
San Diego Unified Port District		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Vista Irrigation District		
GIS training for responder representatives	Count:	16
Caltrans - District 11		
City of Carlsbad		
City of Chula Vista		
City of Encinitas		
City of Escondido		
City of La Mesa		
City of Oceanside		
City of San Marcos		
City of Santee		
Fallbrook Public Utility District		
MTS		
Otay Water District		
Padre Dam Municipal Water District		
San Diego County Water Authority		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Subsidy for hiring or contracting GIS support	Count:	11
Caltrans - District 11		
City of Encinitas		
City of Escondido		
City of La Mesa		
City of San Marcos		
City of Santee		
MTS		
San Diego County Water Authority		
San Diego Unified Port District		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Facilitating volunteer GIS support in time of need	Count:	10
City of Chula Vista		
City of Encinitas		
ony or Entimited		

City of Escondido City of La Mesa City of Oceanside City of San Marcos MTS San Diego County Water Authority San Diego International Airport USMC Camp Pendleton Galtrans - District 11 City of Carlsbad City of Chula Vista City of La Mesa City of San Marcos City of San Marcos County of San Diego MTS Otay Mater Obstrict USMC Camp Pendleton Valley Center Municipal Water District	Count:	11
Other: Specific Applications	Count:	1
City of Chula Vista		
Othre: Technical Assistance and Training	Count:	1
City of Imperial Beach		

Appendices 1 through 7

Current GIS Software Used

	ArcGIS	ArcGIS	ArcGIS	ArcGIS				ERDAS		_
Agency	Desktop	Engine	Server	Workstation	AutoDesk	Bentley		Imagine	Intergraph	Smallworld
Caltrans - District 11	Х			Х			Х			
City of Carlsbad	Х			Х	Х					
City of Chula Vista	Х			Х	Х					
City of Coronado	Х									
City of El Cajon	Х				Х					
City of Encinitas	Х			Х						
City of Escondido	Х	Х	Х	Х	Х					
City of Imperial Beach	Х				Х					
City of La Mesa	Х									
City of Oceanside	Х									
City of Poway	Х		Х	Х						
City of San Diego	Х	Х	Х	Х		Х			Х	Х
City of San Marcos	Х				Х					
City of Santee	Х									
City of Solana Beach	Х									
City of Vista	Х			Х	Х					
County of San Diego	Х			Х				Х	Х	
Fallbrook Public Utility District	Х									
MTS	Х									
NCTD	Х									
Otay Water District	Х			Х	Х					
Padre Dam Municipal Water District	Х			Х						
San Diego Association of Governments	Х			Х						
San Diego County Water Authority	Х			Х	Х			Х		
San Diego International Airport	Х		Х		Х					
San Diego Unified Port District	Х			Х						
Sempra Energy Utilities	Х		Х	Х	Х					
USMC Camp Pendleton	Х		Х	Х						
Valley Center Municipal Water District	Х				Х					
Vista Irrigation District	Х			Х						

Databases Used in Conjunction with GIS

	Access (MS							
Agency	Jet Engine)	DB2	dBase	Info	Informix	Oracle	SQL Express	SQL Server
Caltrans - District 11				Х		Х		
City of Carlsbad	Х				Х	Х		Х
City of Chula Vista	Х			Х				Х
City of El Cajon	Х		Х					
City of Encinitas								Х
City of Escondido			Х	Х		Х		
City of Imperial Beach	Х	Х						
City of La Mesa	Х							
City of Oceanside								Х
City of Poway								Х
City of San Diego						Х		Х
City of San Marcos	Х							
City of Santee	Х							
City of Solana Beach			Х					
City of Vista								Х
County of San Diego	Х					Х	Х	Х
Fallbrook Public Utility District			Х					
Otay Water District	Х							Х
Padre Dam Municipal Water District	Х	Х						
San Diego Association of Governments	Х			Х				Х
San Diego County Water Authority						Х		
San Diego International Airport								Х
San Diego Unified Port District	Х	Х	Х	Х		Х		
Sempra Energy Utilities								Х
USMC Camp Pendleton								Х
Valley Center Municipal Water District	Х		Х					Х
Vista Irrigation District								Х

Operating Systems Used in Conjunction with GIS

Agency	Novell Netware	Solaris	Unix	Windows 2000	Windows 2003	Windows NT	Windows XP
Caltrans - District 11			Х				Х
City of Carlsbad					Х		Х
City of Chula Vista		Х			Х		Х
City of Coronado							Х
City of El Cajon				Х		Х	Х
City of Encinitas					Х		Х
City of Escondido					Х	Х	
City of Imperial Beach							Х
City of La Mesa						Х	Х
City of Oceanside					Х		Х
City of Poway					Х		
City of San Diego		Х	Х		Х	Х	Х
City of San Marcos					Х		Х
City of Santee	Х						Х
City of Solana Beach							Х
City of Vista					Х		Х
County of San Diego			Х	Х	Х		Х
Fallbrook Public Utility District							Х
MTS					Х		
NCTD						Х	
Otay Water District						Х	Х
Padre Dam Municipal Water District					Х		Х
San Diego Association of Governments			Х				Х
San Diego County Water Authority		Х	Х		Х	Х	Х
San Diego International Airport					Х		
San Diego Unified Port District			Х				Х
Sempra Energy Utilities					Х		Х
USMC Camp Pendleton			Х				
Valley Center Municipal Water District							Х
Vista Irrigation District					Х		Х

Programming Languages Used in Conjunction with GIS

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Agency	AML	ASP	ASP.Net	Avenue	C#	C++	Fortran	HTML	Java	JavaScrip	None	Python			XML
Caltrans - District 11	Х						Х	Х	Х			Х	Х	Х	ļ!
City of Carlsbad	Х					Х			Х			Х	Х	Х	Х
City of Chula Vista		Х	Х					Х				Х	Х		Х
City of El Cajon				Х				Х					Х		
City of Encinitas												Х	Х		
City of Escondido	Х	Х		Х				Х	Х			Х		Х	Х
City of Imperial Beach				Х										Х	
City of Oceanside			Х					Х				Х	Х	Х	
City of San Diego	Х	Х		Х				Х	Х				Х	Х	Х
City of San Marcos											Х				
City of Santee				Х										Х	
City of Vista		Х						Х					Х		Х
County of San Diego	Х	Х		Х				Х	Х			Х		Х	Х
Fallbrook Public Utility District													Х		
MTS											Х				
Otay Water District	Х		Х	Х				Х					Х	Х	Х
Padre Dam Municipal Water District				Х										Х	Х
San Diego Association of Governments	Х	Х	Х		Х	Х		Х				Х	Х	Х	Х
San Diego County Water Authority	Х											Х		Х	
San Diego International Airport			Х					Х		Х				Х	Х
San Diego Unified Port District	Х												Х		1
Sempra Energy Utilities									Х			Х		Х	
USMC Camp Pendleton	Х		1											Х	
Valley Center Municipal Water District			1								Х				
Vista Irrigation District			1			Х						Х	Х	Х	Х

GIS Applications Implemented by Agency

Agency	Capital Planning Design and Construction Design	Computer Aided Dispatch (CAD)	Crime Tracking	Disease Control	E911	Emergency Preparedness and Response	Environmental	Financial Reporting (GASBY 34)	Hazardous Materials Management	Hydrologic & Hydraulic Modeling and Analysis	Infrastructure and Facilities Management (Asset Management)
Caltrans - District 11	X						Х	, ,	5	X	X
City of Carlsbad	Х	Х	Х			Х	Х		Х	Х	Х
City of Chula Vista	Х	Х	Х			Х	Х	Х	Х		Х
City of El Cajon	Х	Х	Х				Х				Х
City of Encinitas											Х
City of Escondido		Х	Х		Х	Х	Х	Х			Х
City of Imperial Beach	Х					Х					Х
City of La Mesa	Х										Х
City of Oceanside		Х				Х				Х	
City of San Diego	Х	Х	Х		Х	Х	Х			Х	Х
City of San Marcos	Х					Х					
City of Santee											
City of Solana Beach											
City of Vista		Х									
County of San Diego	Х	Х	Х	Х		Х	Х	Х	Х		Х
Fallbrook Public Utility District	Х									Х	
MTS											
NCTD	Х					Х			Х		Х
Otay Water District	Х	Х						Х			Х
Padre Dam Municipal Water District										Х	Х
San Diego Association of Governments			Х				Х				
San Diego County Water Authority	Х					Х	Х			Х	Х
San Diego International Airport	Х						Х		Х		Х
San Diego Unified Port District	Х	Х	Х			Х	Х				
Sempra Energy Utilities							Х				
USMC Camp Pendleton	Х						Х		Х		Х
Valley Center Municipal Water District	Х					Х				Х	
Vista Irrigation District						Х				Х	Х

GIS Applications Implemented by Agency

		Long Range Planning and Urban			Property Record	Remote Sensing Classification of Aerial/				Vehicle and
		Growth			Management		Sewer /	Softcopy	Transportation	Field Force
Agency	Inspections	Monitoring	None	Permitting	and Taxation	Imagery	Storm Water	Photogrammetry	Modeling	Routing
Caltrans - District 11		Х				Х			Х	
City of Carlsbad	Х	Х		Х	Х			Х	Х	Х
City of Chula Vista	Х			Х						
City of El Cajon	Х			Х	Х		Х			Х
City of Encinitas	Х									
City of Escondido				Х						
City of Imperial Beach	Х			Х	Х	Х				
City of La Mesa										
City of Oceanside									Х	
City of San Diego	Х			Х		Х		Х		Х
City of San Marcos					Х					
City of Santee			Х							
City of Solana Beach					Х					
City of Vista					Х					
County of San Diego	Х	Х		Х	Х	Х				
Fallbrook Public Utility District										
MTS									Х	
NCTD					Х					
Otay Water District				Х	Х	Х				Х
Padre Dam Municipal Water District							Х			
San Diego Association of Governments		Х							Х	
San Diego County Water Authority					Х	Х				
San Diego International Airport					Х					
San Diego Unified Port District		Х			Х					
Sempra Energy Utilities	Х				Х					Х
USMC Camp Pendleton	Х			Х		Х				
Valley Center Municipal Water District		Х								
Vista Irrigation District										

What internet mapping applications does your agency currently maintain?

Agency	Application Name	URL or Purpose
Caltrans - District 11	Real Time Traffic Website	www.dot.ca.gov/dist11/d11tmc/sdmap/showmap.html
City of Chula Vista	Chula Vista GIS Viewer	http://209.242.148.132/website/city/viewer.htm
City of Chula Vista	GIS Property Search	http://209.242.148.132/website/ed/ed.asp?BHIW=800&BHIH=620
City of Chula Vista	Road Closures	http://209.242.148.132/public/Client/PublicKiosk1/index.html?appconfig=Road_Closure
City of Chula Vista	Trash Pickup	http://209.242.148.132/public/Client/PublicKiosk1/index.html?appconfig=CityServices
City of Chula Vista	Traffic Engineering	http://209.242.148.132/public/Client/PublicKiosk1/index.html?appconfig=Traffic
City of Encinitas	eZoning	http://ezoning.cityofencinitas.org/imf/sites/zoning/index.jsp
City of Encinitas	eAssistance	http://eassistance.cityofencinitas.org/
City of Escondido	Escondido Property Finder	http://www.ci.escondido.ca.us/econdev/propfinder/index.html
County of San Diego	empowersd.com	www.empowersd.com
County of San Diego	Survey Records System	http://www.sdcountyluegepay.com/SRI_Internet/
San Diego Association of Governments	Geographic Boundary Viewer	http://maximus.sandag.org/website/viewdata2/viewer.htm
San Diego Association of Governments	Regional Economic Development Information system(REDI)	http://cart.sandag.org/redi/
San Diego Association of Governments	San Diego/Tijuana Interactive Atlas	http://cart.sandag.org/sdtij/
San Diego Association of Governments	Demographic and Economic Mapping System (DEMS)	http://maximus.sandag.org/dems/
San Diego Association of Governments	Industrial Clusters	http://cart.sandag.org/cluster/
San Diego Association of Governments	Transportation Forecast Information Center (TFIC)	http://maximus.sandag.org/tfic/trfic30.html

What intranet mapping applications does your agency currently maintain?

Agency	Application Name	URL or Purpose
Caltrans - District 11	Construction Quickie Site	Display status of construction projects
Caltrans - District 11	Surveys Monumentation	Display inventory of Survey Monumenation
Caltrans - District 11	TCS-IMS Site	Display Long Range Corridor Planning information
Caltrans - District 11	Resident Engineer/Contractor Contact List	Contact information for CHP/TMC in construction zones
City of Carlsbad	GIS Interactive Map	General city staff use
City of Chula Vista	cvmapper	General Purpose GIS viewer for all staff
City of Escondido	EPIC	Planning Department Information
City of Escondido	Utility View	Engineering and Development Information
City of Oceanside	ArcIMS	City Employees
City of Oceanside	Mapplet.NET	Water/Wastewater employees
County of San Diego	KIVA GIS	Permitting
County of San Diego	LUEG Intranet Apps	Discretionary Permitting Process
County of San Diego	Assessor	Assessment & Evaluation
County of San Diego	Project Alert	Road Projects
County of San Diego	OES Mapping App	Visualization and Query for Disaster Events
Otay Water District	GIS mapplet	Supply the water facilities data to the district staff
San Diego Association of Governments	SANDAG Staff Intranet	Information for SANDAG staff
San Diego County Water Authority	Authority GIS User Application(AGUA)	Data viewer
San Diego Unified Port District	ArcIMS	Real Estate Applications
Valley Center Municipal Water District	District Base Maps	Internal End User Maps
Valley Center Municipal Water District	Document Management Base Map	Provides link from document to GIS features
Vista Irrigation District	Mapplet.NET	Web-based GIS data viewer

Coordinate Reference Systems

		Geographic (Latitude/				
Agency	Albers	Longitude)	Localized	Other	State plane	UTM
Caltrans - District 11	X	, J	X		X	X
City of Carlsbad		Х			Х	
City of Chula Vista					Х	
City of Coronado	Х	Х	Х	Х	Х	Х
City of El Cajon			Х			Х
City of Encinitas					Х	
City of Escondido					Х	
City of Imperial Beach					Х	
City of La Mesa	Х	Х	Х		Х	Х
City of Oceanside					Х	
City of San Diego		Х			Х	
City of San Marcos					Х	
City of Santee					Х	
City of Solana Beach		Х			Х	
City of Vista		Х	Х		Х	Х
County of San Diego				Х	Х	Х
Fallbrook Public Utility District						Х
MTS					Х	
NCTD					Х	
Otay Water District					Х	
Padre Dam Municipal Water District					Х	
San Diego Association of Governments					Х	
San Diego County Water Authority		Х	Х		Х	
San Diego International Airport			Х		Х	
San Diego Unified Port District					Х	
Sempra Energy Utilities					Х	
USMC Camp Pendleton					Х	
Valley Center Municipal Water District					Х	
Vista Irrigation District			Х		Х	

Please indicate data layers maintained by providing the extent of the data, how current the data is, and access to the data. Note: SanGIS layers not included.

Data Laver Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicator data not provided)
Data Layer Category and Name	Geographic Extent, Data Date, Data ACCess	(Blank indicates data not provided)
Boundaries		
County		
City of Carlsbad	(Jurisdictional, 2006, Public)	
San Diego Association of Governments	(Regional, 2006, Public)	
Sempra Energy Utilities	(Regional, ,)	
Jurisdictions		
Caltrans - District 11	(Regional, 2006, Restricted)	
City of Carlsbad	(Jurisdictional, 2006, Public)	
City of Encinitas	(Jurisdictional, , Public)	
City of Escondido	(Jurisdictional, 2006, Public)	
City of San Marcos	(Jurisdictional, 2006, Restricted)	
San Diego Association of Governments	(Regional, 2006, Public)	
San Diego County Water Authority	(Jurisdictional, 2006,)	
San Diego Unified Port District	(Regional, 2006, Public)	
Supervisoral Districts		
City of Carlsbad	(, 2006, Public)	
City Council Districts		
City of Carlsbad	(, , Public)	
School Districts		
City of Carlsbad	(Jurisdictional, 2006, Public)	
City of Santee	(Jurisdictional, 2006, Public)	
Fire Districts		
City of Carlsbad	(Jurisdictional, 2006, Public)	
City of Chula Vista	(Jurisdictional, 2006, Public)	
City of Escondido	(Jurisdictional, 2006, Public)	
Police Districts/Beats		
City of Carlsbad	(Jurisdictional, 2006, Public)	
City of Chula Vista	(Jurisdictional, 2006, Public)	
City of Escondido	(Jurisdictional, 2006, Public)	
County of San Diego	(Jurisdictional, 2006, Public)	
San Diego Unified Port District	(Jurisdictional, 2001, Public)	
Dispatch Zones		
City of Carlsbad	(Regional, 2006, Public)	
City of Chula Vista	(Jurisdictional, 2006, Public)	
City of Escondido	(Jurisdictional, 2006, Public)	
San Diego Unified Port District	(Jurisdictional, 2001, Public)	
Neighborhoods		
City of Carlsbad	(Jurisdictional, 2006, Public)	
City of Chula Vista	(Jurisdictional, 2006, Public)	
City of Encinitas	(Jurisdictional, , Public)	
City of Imperial Beach	(Jurisdictional, 2006, Public)	
City of San Marcos	(Jurisdictional, 2006, Restricted)	
Zip Codes		
City of Carlsbad	(Jurisdictional, 2006, Public)	
City of Chula Vista	(Jurisdictional, 2006, Public)	
Chemical & Manufacturing		
Hazardous Materials		

City of Carlsbad City of Chula Vista County of San Diego USMC Camp Pendleton

(, , Public) (, 2003, Public) (Jurisdictional, , Public) (, , Public)

Data Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
Commercial & Retail		
Banking and Credit Institutions		
City of Carlsbad	(, , Public)	
Malls and Major Shopping Centers		
City of Carlsbad	(, , Public)	
San Diego Association of Governments	(Jurisdictional, ,)	
Employment Sites		
San Diego Association of Governments	(Jurisdictional, 2006, Public)	
Office Buildings		
San Diego Association of Governments	(Jurisdictional, 2006, Public)	
Education_		
Schools (primary and secondary)		
San Diego Association of Governments	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
Private Schools (primary and secondary)	· · ·	
San Diego Association of Governments	(Jurisdictional, ,)	
Special Education Schools	· · · · · ·	
San Diego Association of Governments	(Jurisdictional, ,)	
Colleges and Universities		
San Diego Association of Governments	(Jurisdictional, ,)	
Trade and Adult Learning Facilities		
San Diego Association of Governments	(Jurisdictional, ,)	
Emergency Services and Continuity of Government		
Emergency Call Boxes		
Caltrans - District 11	(Jurisdictional, ,)	
City of Escondido	(, 2004,)	
Fire Hydrants		
City of Chula Vista	(, 2006,)	
City of Imperial Beach	(, , Public)	
City of Santee	(, 2006,)	
Otay Water District	(, , Public)	
Padre Dam Municipal Water District	(, 2006, Public)	
USMC Camp Pendleton	(, , Public)	
Valley Center Municipal Water District	(, , Public)	
Fire Stations		
City of Carlsbad	(Jurisdictional, ,)	
City of San Marcos	(, , Public)	
Otay Water District	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Public Works Yards		
Caltrans - District 11	(Jurisdictional, ,)	
Military Installations		
San Diego Association of Governments	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
Jails, Penitentiary		
San Diego Association of Governments	(Jurisdictional, ,)	
San Diego Association of Governments		

ata Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided
ctivity Locations		
Tourist Attractions		
San Diego Association of Governments	(Jurisdictional, ,)	
Casinos		
County of San Diego	(Jurisdictional, ,)	
San Diego Association of Governments	(Jurisdictional, ,)	
Places of Worship		
City of Chula Vista	(, 2006,)	
Camp Grounds		
San Diego Association of Governments	(Jurisdictional, ,)	
Parks		
City of Carlsbad	(, , Public)	
City of San Marcos	(, , Public)	
San Diego Association of Governments	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
ublic Health		
Day Care Facilities		
County of San Diego	(Jurisdictional, , Public)	
USMC Camp Pendleton	(, , Public)	
Emergency Care Centers and Clinics		
City of San Marcos	(, , Public)	
Hospitals		
City of San Marcos	(, , Public)	
San Diego Association of Governments	(Jurisdictional, ,)	
Nursing Homes	·	
County of San Diego	(Jurisdictional, ,)	
Primary Care Facilities		
City of San Marcos	(, , Public)	
County of San Diego	(Jurisdictional, ,)	
Veterinary Clinics/Hospitals	·	
County of San Diego	(Jurisdictional, ,)	

ata Lavar Catagory and Name	Coographic Extent Data Data Data Associ	(Plank indicator data not provided)
ata Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
ransportation		
Airport Facilities		
USMC Camp Pendleton	(, , Public)	
Airports and Airfields		
San Diego Association of Governments	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
Bike Routes		
Caltrans - District 11	(Jurisdictional, 2005,)	
City of San Marcos	(, 2006, Public)	
San Diego Association of Governments	(Jurisdictional, 2006,)	
Bridges and Tunnels		
Caltrans - District 11	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
Bus Routes		
MTS	(Jurisdictional, , Public)	
San Diego Association of Governments	(Jurisdictional, ,)	
Metro Rail Routes		
San Diego Association of Governments	(Jurisdictional, ,)	
Ferry Routes		
San Diego Association of Governments	(Jurisdictional, ,)	
Helipads		
USMC Camp Pendleton	(, , Public)	
Intelligent Transportation System Camera Link's		
Caltrans - District 11	(Jurisdictional, ,)	
Interstates and Highways		
Caltrans - District 11	(Jurisdictional, 2006,)	
San Diego Association of Governments	(Jurisdictional, ,)	
Interstate Rest Areas		
Caltrans - District 11	(Jurisdictional, 2006,)	
USMC Camp Pendleton	(, , Public)	
Mass Transit Stations		
MTS	(Jurisdictional, , Public)	
San Diego Association of Governments	(Jurisdictional, ,)	
Railroads		
San Diego Association of Governments	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
Road Construction Projects		
Caltrans - District 11	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
Truck Routes		
Caltrans - District 11	(Jurisdictional, 2006,)	
Streets/Roads		
Caltrans - District 11	(Jurisdictional, 2006,)	
City of Carlsbad	(Jurisdictional, ,)	
City of San Marcos	(, , Public)	
Padre Dam Municipal Water District	(, 2006, Public)	
San Diego Association of Governments	(Jurisdictional, ,)	
USMC Camp Pendleton	(, , Public)	
Street Lights		
USMC Camp Pendleton	(, , Public)	
Traffic Lights		
Caltrans - District 11	(Jurisdictional, 2006,)	
City of San Marcos	(, , Public)	

Data Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
Monitoring Stations		
Weather Service Sites		
San Diego Association of Governments	(Jurisdictional, 2000,)	
USMC Camp Pendleton	(, , Public)	
Water Quality Monitoring Stations		
City of Escondido	(, 2006, Public)	
City of Imperial Beach	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Valley Center Municipal Water District	(, , Public)	
<u>Demographics</u>		
US Census Blocks/Groups/Tracts		
City of Carlsbad	(Jurisdictional, 2001, Public)	
City of Imperial Beach	(, 2001,)	
City of Santee	(, 2001,)	
San Diego Association of Governments	(Jurisdictional, 2001,)	
Day Time Population		
San Diego Association of Governments	(Jurisdictional, ,)	
Night Time Population		
San Diego Association of Governments	(Jurisdictional, ,)	
Hannah Bata		
Hazard Data		
Flood Zones		
City of Carlsbad	(Jurisdictional, 2000,)	
City of Escondido	(, 2000, Public)	
City of Imperial Beach	(, 2005, Public)	
USMC Camp Pendleton	(, , Public)	
Wildland Urban Interface Zones	(
City of Carlsbad	(, 2006,)	
Hazardous Materials Routes	<i></i>	
Caltrans - District 11	(Jurisdictional, ,)	
Land Use and Housing		
Land Use		
San Diego Association of Governments	(Jurisdictional, ,)	
Trailer/Mobile Home Parks		
San Diego Association of Governments	(Jurisdictional, ,)	
0		
Housing Units per Parcel		

Data Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
Utilities (Public and Private)		
Cell, Wireless, Radio and TV Towers		
City of Encinitas	(, 2005,)	
County of San Diego	(Jurisdictional, ,)	
Community Well Systems		
USMC Camp Pendleton	(, , Public)	
Valley Center Municipal Water District	(, , Public)	
Electric Transmission and Distribution Systems		
USMC Camp Pendleton	(, , Public)	
Gas Transmission and Distribution Systems		
City of Encinitas	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Oil Transmission and Distribution Systems		
USMC Camp Pendleton	(, , Public)	
Pumping Stations		
City of Encinitas	(, , Public)	
City of Escondido	(, , Public)	
City of Imperial Beach	(, , Public)	
Otay Water District	(, , Public)	
Padre Dam Municipal Water District	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Valley Center Municipal Water District	(, , Public)	
Sewer Systems	(, , , , , , , , , , , , , , , , , , ,	
City of Escondido	(, , Public)	
City of Imperial Beach	(, , Public)	
Fallbrook Public Utility District	(, , Public)	
Otay Water District	(, , Public)	
Padre Dam Municipal Water District	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Valley Center Municipal Water District	(, , Public)	
Storm Water Systems	(, , 1 ubic)	
Caltrans - District 11	(Jurisdictional, 2004,)	
City of Escondido	(, 2000, Public)	
City of Imperial Beach	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Manholes	(, , 1 ubic)	
City of Escondido	(, , Public)	
City of Imperial Beach	(, , Public)	
Fallbrook Public Utility District	(, , Public)	
Otay Water District	(, , Public)	
Padre Dam Municipal Water District	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Valley Center Municipal Water District	(, , Public)	
Telecommunication Systems	(, , , , , , , , , , , , , , , , , , ,	
Caltrans - District 11	(Jurisdictional, ,)	
City of San Marcos	(, , Public)	
USMC Camp Pendleton	(, , Public)	
Water Supply Systems		
City of Encinitas	(, , Public)	
City of Escondido	(, , Public)	
Fallbrook Public Utility District	(, , Public)	
-	(, , Public)	
Otay Water District Padre Dam Municipal Water District	(, , Public) (, , Public)	
San Diego County Water Authority	(Jurisdictional, , Public)	

ata Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided
tilities (Public and Private)		
USMC Camp Pendleton	(, , Public)	
Valley Center Municipal Water District	(, , Public)	
Dams		
Fallbrook Public Utility District	(, , Public)	
USMC Camp Pendleton	(, , Public)	
nvironmental		
Bathymetry		
City of Imperial Beach	(Jurisdictional, , Public)	
USMC Camp Pendleton	(, 2001, Public)	
Geodetic Control/Survey Monuments		
City of Carlsbad	(, 2002,)	
City of Imperial Beach	(Jurisdictional, 2003, Public)	
Fallbrook Public Utility District	(, , Public)	
USMC Camp Pendleton	(, 2003, Public)	
Groundwater Aquifers		
USMC Camp Pendleton	(, 2003, Public)	
Hydrography		
City of Carlsbad	(, 2000,)	
City of Encinitas	(, 2006,)	
USMC Camp Pendleton	(, , Public)	
Imagery		
City of Carlsbad	(, 2006,)	
City of Chula Vista	(, 2006, Public)	
City of Encinitas	(, 2006,)	
City of Escondido	(, 2005, Public)	
City of Imperial Beach	(Jurisdictional, 2006, Public)	
San Diego County Water Authority	(Jurisdictional, 2002,)	
USMC Camp Pendleton	(, 2006, Public)	
Valley Center Municipal Water District	(, , Public)	
Species Locations		
City of Carlsbad	(, 2000,)	
San Diego Association of Governments	(, 2000,)	
USMC Camp Pendleton	(, , Public)	
Topography (DEM, DTM, etc.)		
City of Carlsbad	(, 2006,)	
City of Chula Vista	(, 2005,)	
City of Encinitas	(, 2006,)	
City of Escondido	(, 2000, Public)	
City of Imperial Beach	(, 2006, Public)	
City of San Marcos	(, 2004, Public)	
San Diego County Water Authority	(Jurisdictional, 2002,)	
USMC Camp Pendleton	(, 2004, Public)	
Valley Center Municipal Water District	(, , Public)	
Vegetation		
City of Carlsbad	(, 2000,)	
City of Chula Vista	(, 2000,)	
San Diego Association of Governments	(, 2000,)	
San Diego County Water Authority	(, 2004,)	
USMC Camp Pendleton	(, 2006, Public)	
NCCP Habitat Preserves		
City of Carlsbad	(, 2000,)	

Data Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
Administration and Planning		
Address Locating Service		
City of Escondido	(, , Public)	
City of Imperial Beach	(, , Public)	
San Diego Association of Governments	(Jurisdictional, , Public)	
Parcel/Cadastral		
City of Escondido	(, , Public)	
City of Imperial Beach	(, , Public)	
Otay Water District	(, , Public)	
Padre Dam Municipal Water District	(, , Public)	
General/Community Plans		
City of San Marcos	(, , Public)	
San Diego Association of Governments	(Jurisdictional, 2005,)	
Zoning		
City of Imperial Beach	(, , Public)	
City of San Marcos	(, , Public)	
Public Land Ownership		
San Diego Association of Governments	(Jurisdictional, ,)	
Proposed Developments		
Caltrans - District 11	(Jurisdictional, ,)	
City of San Marcos	(, , Public)	
San Diego Association of Governments	(Jurisdictional, 2005,)	
Valley Center Municipal Water District	(, , Public)	

Agency	Access to data	Facilitating volunteer GIS support in time of need	GIS software/hardware	GIS training for responder representatives	Other: Specific Applications	Other: Technical Assistance and Training	Subsidy for hiring or contracting GIS support
Caltrans - District 11	X	need	X	X	Applications	Training	X
City of Carlsbad			X	X			
City of Chula Vista	Х	Х	X	X	х		
City of Encinitas		X		X			х
City of Escondido	Х	Х	Х	Х			Х
City of Imperial Beach						Х	
City of La Mesa	Х	Х	Х	Х			Х
City of Oceanside	Х	Х		Х			
City of Poway	Х						
City of San Marcos	Х	Х	Х	Х			Х
City of Santee	Х			Х			Х
County of San Diego	Х		Х				
Fallbrook Public Utility District	Х			Х			
MTS	Х	Х	Х	Х			Х
Otay Water District	Х		Х	Х			
Padre Dam Municipal Water District	Х			Х			
San Diego County Water Authority	Х	Х		Х			Х
San Diego International Airport	Х	Х					
San Diego Unified Port District	Х						Х
USMC Camp Pendleton	Х	Х	Х	Х			Х
Valley Center Municipal Water District	Х		Х	Х			Х
Vista Irrigation District	Х						

Geospatial Assistance Most Beneficial for Emergency Management Operations

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