



San Diego Regional GIS Council

Local Agency GIS Survey 2006

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SDSU Research Foundation
Homeland Security

SDRGC Local Agency GIS Survey 2006

Question Page Reference

<u>Page</u>	<u>Question</u>
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)

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- 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

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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

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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

MTS

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

NCTD

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

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.

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Does your agency currently use GIS?

Yes

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

No

Count: 2

Borrego Water District
City of National City

SDRGC Local Agency GIS Survey 2006

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		

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

Bentley	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		

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

ArcGIS Workstation	Count:	17
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Caltrans - District 11 		

ERDAS Imagine	Count:	2
<ul style="list-style-type: none"> County of San Diego San Diego County Water Authority 		

Intergraph	Count:	2
<ul style="list-style-type: none"> City of San Diego County of San Diego 		

Smallworld	Count:	1
<ul style="list-style-type: none"> City of San Diego 		

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

ArcGIS Server	Count:	13
<ul style="list-style-type: none"> Caltrans - District 11 City of Carlsbad City of Chula Vista City of Chula Vista City of Encinitas City of San Marcos City of Vista County of San Diego Otay Water District San Diego Association of Governments San Diego County Water Authority Valley Center Municipal Water District Vista Irrigation District 		

ArcGIS Engine	Count:	1
<ul style="list-style-type: none"> City of Vista 		

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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		
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		

Other 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		

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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.)

Oracle	Count:	7
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> City of Imperial Beach Padre Dam Municipal Water District San Diego Unified Port District 		
dBase	Count:	6
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Caltrans - District 11 City of Chula Vista City of Escondido San Diego Association of Governments San Diego Unified Port District 		
Informix	Count:	1
<ul style="list-style-type: none"> City of Carlsbad 		
SQL Express	Count:	1
<ul style="list-style-type: none"> County of San Diego 		
SQL Server	Count:	15
<ul style="list-style-type: none"> City of Carlsbad City of Chula Vista City of Encinitas City of Oceanside City of Poway City of San Diego City of Vista County of San Diego Otay Water District San Diego Association of Governments San Diego International Airport Sempra Energy Utilities USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District 		
Access (MS Jet Engine)	Count:	13
<ul style="list-style-type: none"> City of Carlsbad City of Chula Vista City of El Cajon City of Imperial Beach City of La Mesa City of San Marcos 		

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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

Count: 16

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

Count: 13

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

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Does your agency use Oracle Spatial?

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		
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		
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		

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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		

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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

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 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

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

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
County of San Diego
MTS
Otay Water District
San Diego Association of Governments
San Diego County Water Authority
San Diego Unified Port District
Sempra Energy Utilities
USMC Camp Pendleton

Recreational (> 1 meter)

Count: 5

Caltrans - District 11
City of San Diego
County of San Diego
San Diego County Water Authority
San Diego Unified Port District

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Does your agency use these receivers regularly?

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 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

Count: 7

City of Imperial Beach
City of Oceanside
City of San Marcos
City of Santee
MTS
San Diego Association of Governments
Sempra Energy Utilities

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
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
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		
10		Count:	1
	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		

SDRGC Local Agency GIS Survey 2006

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		

SDRGC Local Agency GIS Survey 2006

What is your annual operating budget for GIS? (For multi-regional agencies please provide figures for the San Diego region only)

<\$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		

SDRGC Local Agency GIS Survey 2006

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		

SDRGC Local Agency GIS Survey 2006

How are your GIS functions maintained?

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

Sempra Energy Utilities

USMC Camp Pendleton

SDRGC Local Agency GIS Survey 2006

Which departments perform GIS functions?

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 Poway
Otay Water District
San Diego County Water Authority
San Diego Unified Port District
Sempra Energy Utilities
USMC Camp Pendleton

SDRGC Local Agency GIS Survey 2006

Which departments perform GIS functions?

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 Diego Unified Port District
Sempra Energy Utilities

SDRGC Local Agency GIS Survey 2006

Which departments perform GIS functions?

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 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

USMC Camp Pendleton

SDRGC Local Agency GIS Survey 2006

Which departments perform GIS functions?

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
 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

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

SDRGC Local Agency GIS Survey 2006

Which departments perform GIS functions?

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	Count:	4
City of Oceanside		
City of San Diego		
San Diego International Airport		
USMC Camp Pendleton		

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		

SDRGC Local Agency GIS Survey 2006

Which departments perform GIS functions?

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		

End user of mapping applications	Count:	5
City of Carlsbad		
City of Escondido		
City of Vista		
MTS		
USMC Camp Pendleton		

SDRGC Local Agency GIS Survey 2006

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		
Criminal 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 Financial 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		

SDRGC Local Agency GIS Survey 2006

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

Crime tracking	Count:	8
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> County of San Diego 		
Environmental	Count:	13
<ul style="list-style-type: none"> 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 		
Property record management and taxation	Count:	13
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> City of Carlsbad City of Chula Vista City of Chula Vista City of Escondido City of Imperial Beach City of Oceanside City of San Diego City of San Marcos County of San Diego NCTD San Diego County Water Authority San Diego Unified Port District Valley Center Municipal Water District 		

SDRGC Local Agency GIS Survey 2006

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
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

SDRGC Local Agency GIS Survey 2006

City of San Diego
City of San Marcos
County of San Diego
Fallbrook Public Utility District
NCTD
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 photogrammetry 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

SDRGC Local Agency GIS Survey 2006

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		

SDRGC Local Agency GIS Survey 2006

What programming languages does your agency use in conjunction with GIS? (Check all that 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		
City of Carlsbad		
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
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		

SDRGC Local Agency GIS Survey 2006

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
Semptra Energy Utilities
USMC Camp Pendleton
Vista Irrigation District

ASP **Count:** 6

City of Chula Vista
City of Escondido
City of San Diego
City of Vista
County of San Diego
San Diego Association of Governments

ASP.net **Count:** 5

City of Chula Vista
City of Oceanside
Otay Water District
San Diego Association of Governments
San Diego International Airport

XML **Count:** 11

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

HTML **Count:** 11

Caltrans - District 11
City of Chula Vista
City of El Cajon
City of Escondido
City of Oceanside
City of San Diego
City of Vista

SDRGC Local Agency GIS Survey 2006

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

SDRGC Local Agency GIS Survey 2006

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		

SDRGC Local Agency GIS Survey 2006

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

ArcPad	Count:	7
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:	1
San Diego County Water Authority		
Field tablet PC	Count:	1
Otay Water District		
Trimble	Count:	2
Caltrans - District 11		
City of Chula Vista		

Does your agency have any internet/intranet mapping applications?

Yes	Count:	18
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		
No	Count:	12
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		

SDRGC Local Agency GIS Survey 2006

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, HHS Community Data Portal	Count:	1
County of San Diego		
Will implement 3rd party mapping application for internet access	Count:	1
City of Carlsbad		

SDRGC Local Agency GIS Survey 2006

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

Google Earth **Count:** 2
 Caltrans - District 11
 San Diego Association of Governments

ArcIMS **Count:** 15
 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:** 1
 City of San Diego

MapGuide **Count:** 1
 City of Vista

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

Google Maps **Count:** 1
 San Diego Association of Governments

Google Earth **Count:** 1
 Sempra Energy Utilities

ArcIMS **Count:** 1
 County of San Diego

ArcGIS Server **Count:** 11
 Caltrans - District 11
 City of Chula Vista
 City of Encinitas
 City of Escondido
 City of Vista
 County of San Diego
 San Diego Association of Governments
 San Diego County Water Authority
 Sempra Energy Utilities
 Valley Center Municipal Water District
 Vista Irrigation District

SDRGC Local Agency GIS Survey 2006

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		

SDRGC Local Agency GIS Survey 2006

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		

UTM

NAD83	Count:	6
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 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 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		
Sempra Energy Utilities		
USMC Camp Pendleton		
Valley Center Municipal Water District		
Vista Irrigation District		

SDRGC Local Agency GIS Survey 2006

What is the coordinate reference system used by your agency?

Albers

NAD83	Count:	2
Caltrans - District 11		
City of Coronado		

Other

NAD83	Count:	2
City of Coronado		
County of San Diego		

Does your agency use data from SanGIS?

Yes	Count:	26
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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

SDRGC Local Agency GIS Survey 2006

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)

Parcels **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
- MTS

SDRGC Local Agency GIS Survey 2006

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 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 Imperial Beach

City of Vista

San Diego Association of Governments

San Diego County Water Authority

SDRGC Local Agency GIS Survey 2006

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

Yes	Count:	26
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	Count:	4
City of La Mesa		
City of Poway		
City of Solana Beach		
Vista Irrigation District		

SDRGC Local Agency GIS Survey 2006

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

No **Count:** 9

- 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

If yes, 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

No **Count:** 8

- 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

SDRGC Local Agency GIS Survey 2006

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

No **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

If 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

- Caltrans - District 11
- City of Chula Vista
- City of Escondido
- Otay Water District
- San Diego Association of Governments

CERES **Count:** 2

- City of Chula Vista
- San Diego Association of Governments

Microsoft Access Database **Count:** 1

- USMC Camp Pendleton

SDRGC Local Agency GIS Survey 2006

If yes, please explain.

All data is in the public domain except for those data sets licensed to the County County of San Diego	Count: 1
All data must be requested through the clerks office. San Diego Unified Port District	Count: 1
All SANDAG data is publicly available except for data that is licensed to us. San Diego Association of Governments	Count: 1
All unrestricted data except for imagery and contour data City of Carlsbad	Count: 1
Data Distribution Agreement must be signed City of San Marcos	Count: 1
Data must be requested via letter USMC Camp Pendleton	Count: 1
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 City of Encinitas	Count: 1
We charge for labor to distribute the data - but allow free access to download data from the internet. City of Chula Vista	Count: 1
We make data available to consultants working within City of Escondido	Count: 1
We only share our data with member agencies and consultants working on jobs for us as needed. Padre Dam Municipal Water District	Count: 1

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

Yes Otay Water District San Diego Association of Governments	Count: 2
No 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	Count: 9
We do not charge for GIS data 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	Count: 10

SDRGC Local Agency GIS Survey 2006

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

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

SDRGC Local Agency GIS Survey 2006

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		
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		
City of San Marcos		
Street infrastructure layers	Count:	1
City of Encinitas		
Street Lights	Count:	1
City of San Marcos		

SDRGC Local Agency GIS Survey 2006

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		
<u>Is your jurisdiction collaborating with other adjoining jurisdictions on building GIS data and/or applications?</u>		
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 County Water Authority		
San Diego Unified Port District		
No	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		

SDRGC Local Agency GIS Survey 2006

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

SDRGC Local Agency GIS Survey 2006

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 **Count:** 3
City of Vista
County of San Diego
Otay Water District

Standards **Count:** 1
City of Vista

SDRGC Local Agency GIS Survey 2006

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

Yes	Count:	14
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> City of Imperial Beach City of Poway City of San Marcos City of Santee City of Solana Beach Fallbrook Public Utility District MTS Padre Dam Municipal Water District San Diego Association of Governments San Diego County Water Authority San Diego International Airport USMC Camp Pendleton Valley Center Municipal Water District Vista Irrigation District 		

What Computer Aided Dispatch system does your agency use?

Agency

Software

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

SDRGC Local Agency GIS Survey 2006

Does the Computer Aided Dispatch have GIS/mapping capabilities?

Yes	Count:	7
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> 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 Aided Dispatch

Utilizes the same GIS Data that is used in other parts of your organization	Count:	4
<ul style="list-style-type: none"> City of Carlsbad City of Chula Vista County of San Diego Otay Water District 		
Input separately and is standalone	Count:	7
<ul style="list-style-type: none"> Caltrans - District 11 City of Encinitas City of Escondido City of La Mesa City of Oceanside City of Vista San Diego Unified Port District 		

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?

Yes	Count:	6
<ul style="list-style-type: none"> City of Carlsbad City of Chula Vista City of Escondido City of Oceanside County of San Diego Otay Water District 		
No	Count:	1
<ul style="list-style-type: none"> City of Vista 		

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

Less than 2 hours	Count:	1
<ul style="list-style-type: none"> Otay Water District 		
2-5 hours	Count:	2
<ul style="list-style-type: none"> City of Escondido City of Oceanside 		
12-16 hours	Count:	2
<ul style="list-style-type: none"> City of Carlsbad City of Chula Vista 		
Greater than 16 hours	Count:	2
<ul style="list-style-type: none"> County of San Diego San Diego Unified Port District 		

SDRGC Local Agency GIS Survey 2006

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

Built on existing GIS software **Count:** 2

- City of Escondido
- Otay Water District

Built into the Computer Aided Dispatch system **Count:** 6

- City of Carlsbad
- City of Chula Vista
- City of La Mesa
- City of Oceanside
- 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 Carlsbad
- City of Chula Vista
- City of Encinitas
- City of Escondido
- 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
- 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

No **Count:** 3

- City of Imperial Beach
- Fallbrook Public Utility District
- San Diego Association of Governments

SDRGC Local Agency GIS Survey 2006

If yes, how 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	71%
Build additional layers	65%
Design a system architecture for enterprise GIS	63%
Implement applications	56%
Increase accuracy	56%
Hire consultants	41%
Train staff	39%
Create interjurisdictional GIS layers or regional layers	33%
Acquire hardware, software, or telecommunication systems for data	31%

SDRGC Local Agency GIS Survey 2006

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

SDRGC Local Agency GIS Survey 2006

What types of geospatial assistance would be most beneficial for your organization's emergency management 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		

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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

GIS software/hardware **Count:** 11

Caltrans - District 11
City of Carlsbad
City of Chula Vista
City of Escondido
City of La Mesa
City of San Marcos
County of San Diego
MTS
Otay Water District
USMC Camp Pendleton
Valley Center Municipal Water District

Other: Specific Applications **Count:** 1

City of Chula Vista

Othre: Technical Assistance and Training **Count:** 1

City of Imperial Beach

Appendices 1 through 7

SDRGC Local Agency GIS Survey 2006

Current GIS Software Used

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

SDRGC Local Agency GIS Survey 2006

Databases Used in Conjunction with GIS

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

SDRGC Local Agency GIS Survey 2006

Operating Systems Used in Conjunction with GIS

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

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Programming Languages Used in Conjunction with GIS

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

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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						X			X	X
City of Carlsbad	X	X	X			X	X		X	X	X
City of Chula Vista	X	X	X			X	X	X	X		X
City of El Cajon	X	X	X				X				X
City of Encinitas											X
City of Escondido		X	X		X	X	X	X			X
City of Imperial Beach	X					X					X
City of La Mesa	X										X
City of Oceanside		X				X				X	
City of San Diego	X	X	X		X	X	X			X	X
City of San Marcos	X					X					
City of Santee											
City of Solana Beach											
City of Vista		X									
County of San Diego	X	X	X	X		X	X	X	X		X
Fallbrook Public Utility District	X									X	
MTS											
NCTD	X					X			X		X
Otay Water District	X	X						X			X
Padre Dam Municipal Water District										X	X
San Diego Association of Governments			X				X				
San Diego County Water Authority	X					X	X			X	X
San Diego International Airport	X						X		X		X
San Diego Unified Port District	X	X	X			X	X				
Sempra Energy Utilities							X				
USMC Camp Pendleton	X						X		X		X
Valley Center Municipal Water District	X					X				X	
Vista Irrigation District						X				X	X

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GIS Applications Implemented by Agency

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

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What internet mapping applications does your agency currently maintain?

<u>Agency</u>	<u>Application Name</u>	<u>URL or Purpose</u>
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

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What intranet mapping applications does your agency currently maintain?

<u>Agency</u>	<u>Application Name</u>	<u>URL or Purpose</u>
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

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Coordinate Reference Systems

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

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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 Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
<u>Boundaries</u>		
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)	
Supervisorial 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)	
<u>Chemical & Manufacturing</u>		
Hazardous Materials		
City of Carlsbad	(, , Public)	
City of Chula Vista	(, 2003, Public)	
County of San Diego	(Jurisdictional, , Public)	
USMC Camp Pendleton	(, , Public)	

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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 Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
<u>Commercial & Retail</u>		
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)	
<u>Education</u>		
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, ,)	
<u>Emergency Services and Continuity of Government</u>		
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, ,)	

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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 Layer Category and Name	Geographic Extent, Data Date, Data Access <i>(Blank indicates data not provided)</i>
<u>Activity Locations</u>	
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)
<u>Public Health</u>	
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, ,)

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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 Layer Category and Name	Geographic Extent, Data Date, Data Access <i>(Blank indicates data not provided)</i>
<u>Transportation</u>	
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)

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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 Layer Category and Name	Geographic Extent, Data Date, Data Access	(Blank indicates data not provided)
<u>Monitoring Stations</u>		
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, ,)	
<u>Hazard Data</u>		
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		
Caltrans - District 11	(Jurisdictional, ,)	
<u>Land Use and Housing</u>		
Land Use		
San Diego Association of Governments	(Jurisdictional, ,)	
Trailer/Mobile Home Parks		
San Diego Association of Governments	(Jurisdictional, ,)	
Housing Units per Parcel		
San Diego Association of Governments	(Jurisdictional, ,)	

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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 Layer Category and Name	Geographic Extent, Data Date, Data Access <i>(Blank indicates data not provided)</i>
<u>Utilities (Public and Private)</u>	
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	
Caltrans - District 11	(Jurisdictional, 2004,)
City of Escondido	(, 2000, Public)
City of Imperial Beach	(, , Public)
USMC Camp Pendleton	(, , Public)
Manholes	
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)
Otay Water District	(, , Public)
Padre Dam Municipal Water District	(, , Public)
San Diego County Water Authority	(Jurisdictional, , Public)

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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 Layer Category and Name	Geographic Extent, Data Date, Data Access <i>(Blank indicates data not provided)</i>
<u>Utilities (Public and Private)</u>	
USMC Camp Pendleton	(, , Public)
Valley Center Municipal Water District	(, , Public)
Dams	
Fallbrook Public Utility District	(, , Public)
USMC Camp Pendleton	(, , Public)
<u>Environmental</u>	
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,)

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Geospatial Assistance Most Beneficial for Emergency Management Operations

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		X	X			X
City of Carlsbad			X	X			
City of Chula Vista	X	X	X	X	X		
City of Encinitas		X		X			X
City of Escondido	X	X	X	X			X
City of Imperial Beach						X	
City of La Mesa	X	X	X	X			X
City of Oceanside	X	X		X			
City of Poway	X						
City of San Marcos	X	X	X	X			X
City of Santee	X			X			X
County of San Diego	X		X				
Fallbrook Public Utility District	X			X			
MTS	X	X	X	X			X
Otay Water District	X		X	X			
Padre Dam Municipal Water District	X			X			
San Diego County Water Authority	X	X		X			X
San Diego International Airport	X	X					
San Diego Unified Port District	X						X
USMC Camp Pendleton	X	X	X	X			X
Valley Center Municipal Water District	X		X	X			X
Vista Irrigation District	X						

SDRGC Local Agency GIS Survey 2006

Borrego Water District

GIS Manager (or equivalent) Contact Information

Name: Jerry Rolwing
Title: Operations Manager
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Email: jerry@borregowd.org

Emergency Management Director (or equivalent):

Name: Greg Holloway
Title: Safety Officer
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Email: greg@borregowd.org

Caltrans - District 11

GIS Manager (or equivalent) Contact Information

Name: Pat Landrum
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City of Carlsbad

GIS Manager (or equivalent) Contact Information

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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

City of Chula Vista

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

Name: Jim Sandoval
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Public Works Director (or equivalent):

Name: Dave Byers
Title: Director
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City Engineer (or equivalent):

Name: Leah Browder
Title: Director
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Emergency Management Director (or equivalent):

Name: Vacant
Title: Disaster Preparedness Administrator
Phone Number: 619-476-2303

Name of 911 Director (or equivalent):

Name: Tom Leonard
Title: Police Lieutenant
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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

City of Coronado

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

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Public Works Director (or equivalent):

Name: Scott Huth
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City Engineer (or equivalent):

Name: Jim Benson
Title: Director of Engineering and Project Development
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City of Del Mar

GIS Manager (or equivalent) Contact Information

Name: Dan Halverson
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SDRGC Local Agency GIS Survey 2006

City of El Cajon

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

Name: Jim Griffin
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Public Works Director (or equivalent):

Name: Rob Turner
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City Engineer (or equivalent):

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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

City of Encinitas

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Planning Director (or equivalent):

Name: Patrick Murphy
Title: Director of Planning
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Public Works Director (or equivalent):

Name: Victor Graves
Title: Director of Public Works (Interim)
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City Engineer (or equivalent):

Name: Peter Cota-Robles
Title: Director of Engineering
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Emergency Management Director (or equivalent):

Name: Tom Gallup
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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

City of Escondido

GIS Manager (or equivalent) Contact Information

Name: Dan Hildebrand
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Planning Director (or equivalent):

Name: Barbara Redlitz
Title: Asst Planning Director

Public Works Director (or equivalent):

Name: Pat Thomas
Title: Director of Public Works

City Engineer (or equivalent):

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

Emergency Management Director (or equivalent):

Name: Anthony Arakelian
Title: Emergency Services Coordinator

Name of 911 Director (or equivalent):

Name: Garry Wells
Title: Public Safety Communications Manager

GIS staff person with the most programming expertise.

Name: Jason McNeil
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SDRGC Local Agency GIS Survey 2006

City of Imperial Beach

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

Name: Greg Wade
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Public Works Director (or equivalent):

Name: Hank Levien
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Emergency Management Director (or equivalent):

Name: Frank Sotello
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GIS staff person with the most programming expertise.

Name: John Nazimek
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SDRGC Local Agency GIS Survey 2006

City of La Mesa

GIS Manager (or equivalent) Contact Information

Name: Michael Kinnard
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Planning Director (or equivalent):

Name: Bill Chopyk
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Public Works Director (or equivalent):

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City Engineer (or equivalent):

Name: Greg Humora
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Email: ghumora@ci.la-mesa.ca.us

Emergency Management Director (or equivalent):

Name: N/A

Name of 911 Director (or equivalent):

Name: N/A

City of Lemon Grove

GIS Manager (or equivalent) Contact Information

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SDRGC Local Agency GIS Survey 2006

City of National City

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Planning Director (or equivalent):

Name: Roger Post
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Public Works Director (or equivalent):

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City Engineer (or equivalent):

Name: Stephen M. Kirkpatrick
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Phone Number: 619-336-4383

Emergency Management Director (or equivalent):

Name: Walter Amedee
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City of Oceanside

GIS Manager (or equivalent) Contact Information

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SDRGC Local Agency GIS Survey 2006

City of Poway

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

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Public Works Director (or equivalent):

Name: James Howell
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City Engineer (or equivalent):

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Emergency Management Director (or equivalent):

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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

City of San Diego

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GIS staff person with the most programming expertise.

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City of San Marcos

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Planning Director (or equivalent):

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Public Works Director (or equivalent):

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City Engineer (or equivalent):

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Emergency Management Director (or equivalent):

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SDRGC Local Agency GIS Survey 2006

City of Santee

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

Name: Gary Halbert
Title: Deputy City Manger/Development Services Director

City of Solana Beach

GIS Manager (or equivalent) Contact Information

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City of Vista

GIS Manager (or equivalent) Contact Information

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GIS staff person with the most programming expertise.

Name: Patrick Kelleher

SDRGC Local Agency GIS Survey 2006

County of San Diego

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

Name: Gary Pryor
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Public Works Director (or equivalent):

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Title: Director of Public Works
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City Engineer (or equivalent):

Name: Use contact info for Public Works

Emergency Management Director (or equivalent):

Name: Ron Lane
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Name of 911 Director (or equivalent):

Name: Hanan Harb
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SDRGC Local Agency GIS Survey 2006

Fallbrook Public Utility District

GIS Manager (or equivalent) Contact Information

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GIS staff person with the most programming expertise.

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MTS

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

Name: Conan Cheung
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Emergency Management Director (or equivalent):

Name: William (Bill) Burke
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Name of 911 Director (or equivalent):

Name: Willaim (Bill) Burke
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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

NCTD

GIS Manager (or equivalent) Contact Information

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Otay Water District

GIS Manager (or equivalent) Contact Information

Name: Ming Zhao
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GIS staff person with the most programming expertise.

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Padre Dam Municipal Water District

GIS Manager (or equivalent) Contact Information

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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

San Diego Association of Governments

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

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SDRGC Local Agency GIS Survey 2006

San Diego County Water Authority

GIS Manager (or equivalent) Contact Information

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Planning Director (or equivalent):

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Public Works Director (or equivalent):

Name: Gary Eaton
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City Engineer (or equivalent):

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Emergency Management Director (or equivalent):

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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

San Diego International Airport

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GIS staff person with the most programming expertise.

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San Diego Unified Port District

GIS Manager (or equivalent) Contact Information

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GIS staff person with the most programming expertise.

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Sempra Energy Utilities

GIS Manager (or equivalent) Contact Information

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SDRGC Local Agency GIS Survey 2006

USMC Camp Pendleton

GIS Manager (or equivalent) Contact Information

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Public Works Director (or equivalent):

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Name of 911 Director (or equivalent):

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GIS staff person with the most programming expertise.

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SDRGC Local Agency GIS Survey 2006

Valley Center Municipal Water District

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Public Works Director (or equivalent):

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City Engineer (or equivalent):

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Phone Number: 760-749-1600

Emergency Management Director (or equivalent):

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Phone Number: 760-749-1600

GIS staff person with the most programming expertise.

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Vista Irrigation District

GIS Manager (or equivalent) Contact Information

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GIS staff person with the most programming expertise.

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