Geospatial Data Quality Survey

Open Geospatial Consortium Data Quality Working Group

Results of survey on geospatial data quality open to both OGC and non-OGC members between October 2007 and March 2008

4. Are you a consumer or supplier of spatial data? Or both?			
		Response Percent	Response Count
Consumer		33.3%	250
Supplier		8.5%	64
Both		58.2%	437
answered question		751	
skipped question		22	

5. Are you a member of the Open Geospatial Consortium (OGC)?			
		Response Percent	Response Count
Yes		16.6%	123
No		83.4%	620
		answered question	743
		skipped question	30

6. What is your job title?			
		Response Percent	Response Count
CAD Drafter/Technician		1.9%	14
Database Administrator		1.6%	12
Database Programmer		0.3%	2
Geospatial Analyst		3.0%	22
GIS Administrator		2.7%	20
GIS Analyst		5.7%	42
GIS Coordinator		3.8%	28
GIS Developer		2.4%	18
GIS IT Specialist		3.5%	26
GIS Manager		7.1%	52
GIS Production Manager		1.6%	12
GIS Specialist		6.8%	50
GIS Technician		2.6%	19
IMS Manager	0	0.4%	3
IT Director		2.2%	16
Mapping Analyst		1.9%	14
Mapping Technologist		1.8%	13
Marketing	0	0.9%	7
President/CEO/Manager		8.1%	60
Product Engineer		1.9%	14
Sales	0	0.9%	7
Software Developer		2.7%	20
Surveyor		7.5%	55
Web Programmer	0	0.4%	3
Other		28.2%	208

answered question	737
skipped question	36

7. What country is your company or ogranization headquartered?			
		Response Percent	Response Count
Afghanistan	I	0.1%	1
Albania	I	0.1%	1
Algeria	1	0.1%	1
American Samoa	I	0.1%	1
Andorra	1	0.1%	1
Angola	1	0.1%	1
Anguilla	I	0.1%	1
Antarctica		0.0%	0
Antigua and Barbuda		0.0%	0
Argentina		1.2%	9
Armenia	I	0.1%	1
Aruba		0.0%	0
Ashmore and Cartier Islands		0.0%	0
Australia		8.0%	58
Austria	0	0.3%	2
Azerbaijan		0.0%	0
Bahamas, The		0.0%	0
Bahrain		0.0%	0
Baker Island		0.0%	0
Bangladesh		0.0%	0
Barbados		0.0%	0
Bassas da India		0.0%	0
Belarus		0.0%	0

Belgium	0	0.7%	5
Belize	1	0.1%	1
Benin		0.0%	0
Bermuda		0.0%	0
Bhutan		0.0%	0
Bolivia	1	0.1%	1
Bosnia and Herzegovina	I	0.1%	1
Botswana	1	0.1%	1
Bouvet Island		0.0%	0
Brazil		1.1%	8
British Indian Ocean Territory		0.0%	0
British Virgin Islands		0.0%	0
Brunei		0.0%	0
Bulgaria	1	0.1%	1
Burkina Faso		0.0%	0
Burma		0.0%	0
Burundi	Ι	0.1%	1
Cambodia		0.0%	0
Cameroon	Ι	0.1%	1
Canada		5.8%	42
Cape Verde		0.0%	0
Cayman Islands	I	0.1%	1
Central African Republic		0.0%	0
Chad		0.0%	0
Chile		0.8%	6
China		0.4%	3
Christmas Island		0.0%	0
Clipperton Island	I	0.1%	1

Cocos (Keeling) Islands		0.0%	0
Colombia		0.7%	5
Comoros		0.0%	0
Congo, Democratic Republic of the		0.0%	0
Congo, Republic of the	1	0.1%	1
Cook Islands		0.0%	0
Coral Sea Islands		0.0%	0
Costa Rica	I	0.1%	1
Cote d'Ivoire		0.0%	0
Croatia	0	0.7%	5
Cuba		0.3%	2
Cyprus	I	0.1%	1
Czech Republic	0	0.7%	5
Denmark	0	0.8%	6
Djibouti		0.0%	0
Dominica		0.0%	0
Dominican Republic		0.0%	0
East Timor		0.0%	0
Ecuador	I	0.1%	1
Egypt	0	0.3%	2
El Salvador		0.0%	0
Equatorial Guinea		0.0%	0
Eritrea		0.0%	0
Estonia	I	0.1%	1
Ethiopia	I	0.1%	1
Europa Island		0.0%	0
Falkland Islands (Islas Malvinas)		0.0%	0
Faroe Islands		0.0%	0

Fiji		0.0%	0
Finland	0	0.7%	5
France		2.9%	21
French Guiana		0.0%	0
French Polynesia		0.0%	0
French Southern and Antarctic Lands		0.0%	0
Gabon		0.0%	0
Gaza Strip		0.0%	0
Georgia		0.0%	0
Germany		2.1%	15
Ghana		0.0%	0
Gibraltar		0.0%	0
Glorioso Islands		0.0%	0
Greece	0	0.7%	5
Greenland		0.0%	0
Grenada		0.0%	0
Guadeloupe		0.0%	0
Guam		0.0%	0
Guatemala	0	0.3%	2
Guernsey		0.0%	0
Guinea		0.0%	0
Guinea-Bissau		0.0%	0
Guyana		0.0%	0
Haiti		0.0%	0
Heard Island and McDonald Islands		0.0%	0
Holy See (Vatican City)		0.0%	0
Honduras	I	0.1%	1

Hong Kong		0.0%	0
Howland Island		0.0%	0
Hungary	I	0.1%	1
Iceland	I	0.1%	1
India		1.9%	14
Indian Ocean Islands (French)		0.0%	0
Indonesia	1	0.4%	3
Iran	1	0.4%	3
Iraq	0	0.3%	2
Ireland	0	0.4%	3
Israel		0.8%	6
Italy		1.9%	14
Jamaica	I	0.1%	1
Jan Mayen		0.0%	0
Japan		0.3%	2
Jarvis Island		0.0%	0
Jersey		0.0%	0
Johnston Atoll		0.0%	0
Jordan		0.0%	0
Juan de Nova Island		0.0%	0
Kazakhstan		0.0%	0
Kenya	I	0.1%	1
Kingman Reef		0.0%	0
Kiribati		0.0%	0
Korea, North		0.0%	0
Korea, South	0	0.7%	5
Kuwait		0.0%	0
Kyrgyzstan		0.0%	0

Laos	1	0.1%	1
Latvia		0.0%	0
Lebanon		0.0%	0
Lesotho		0.0%	0
Liberia		0.0%	0
Libya	0	0.3%	2
Liechtenstein		0.0%	0
Lithuania	1	0.1%	1
Luxembourg	1	0.1%	1
Macau		0.0%	0
Macedonia, The Republic of	I	0.1%	1
Madagascar		0.0%	0
Malawi		0.0%	0
Malaysia	I	0.1%	1
Maldives		0.0%	0
Mali		0.0%	0
Malta	0	0.3%	2
Man, Isle of		0.0%	0
Marshall Islands		0.0%	0
Martinique		0.0%	0
Mauritania		0.0%	0
Mauritius	I	0.1%	1
Mayotte		0.0%	0
Mexico		0.5%	4
Micronesia, Federated States of		0.0%	0
Midway Islands		0.0%	0
Moldova	[0.1%	1
Monaco		0.0%	0

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	Panama	0	0.3%	2
Paracel Islands 0.0% 0	Papua New Guinea		0.0%	0
	Paracel Islands		0.0%	0

Paraguay		0.0%	0
Peru		0.0%	0
Philippines	0	0.5%	4
Pitcairn Islands		0.0%	0
Poland	0	0.7%	5
Portugal	0	0.5%	4
Puerto Rico	I	0.1%	1
Qatar	I	0.1%	1
Reunion		0.0%	0
Romania		1.0%	7
Russia		1.6%	12
Rwanda		0.0%	0
Saint Helena		0.0%	0
Saint Kitts and Nevis		0.0%	0
Saint Lucia		0.0%	0
Saint Pierre and Miquelon		0.0%	0
Saint Vincent and the Grenadines		0.0%	0
Samoa		0.0%	0
San Marino		0.0%	0
Sao Tome and Principe		0.0%	0
Saudi Arabia		1.2%	9
Senegal		0.0%	0
Serbia	0	0.4%	3
Seychelles		0.0%	0
Sierra Leone		0.0%	0
Singapore	I	0.1%	1
Slovakia	1	0.1%	1
Slovenia	0	0.5%	4

Solomon Islands		0.0%	0
Somalia		0.0%	0
South Africa		1.2%	9
South Georgia and the Islands		0.0%	0
Southern Ocean		0.0%	0
Spain		3.2%	23
Spratly Islands		0.0%	0
Sri Lanka		0.0%	0
Sudan		0.0%	0
Suriname	I	0.1%	1
Svalbard		0.0%	0
Swaziland		0.0%	0
Sweden		1.6%	12
Switzerland	0	0.5%	4
Syria	I	0.1%	1
Taiwan		0.0%	0
Tajikistan		0.0%	0
Tanzania		0.4%	3
Thailand	I	0.4%	3
The Gambia		0.0%	0
Тодо		0.0%	0
Tokelau		0.0%	0
Tonga		0.0%	0
Trinidad and Tobago		0.0%	0
Tromelin Island		0.0%	0
Tunisia	[0.3%	2
Turkey	0	0.7%	5
Turkmenistan		0.0%	0

		ed question ed question	728 45
Zimbabwe		0.0%	0
Zambia		0.0%	0
Zaire		0.0%	0
Yugoslavia		0.0%	0
Yemen		0.0%	0
Western Samoa		0.0%	0
Western Sahara		0.0%	0
West Bank	I	0.3%	2
Wallis and Futuna	I	0.1%	1
Wake Island		0.0%	0
Virgin Islands (US)		0.0%	0
Virgin Islands (UK)		0.0%	0
Virgin Islands		0.0%	0
Vietnam	0	0.5%	4
Venezuela		1.4%	10
Vanuatu		0.0%	0
Uzbekistan		0.0%	0
	I	0.4%	3
United States Minor Outlying Islands		0.0%	0
United States		26.8%	195
United Kingdom		7.3%	53
		0.7%	5
	0	0.5%	4
Uganda		0.0%	0
Turks and Caicos Islands Tuvalu		0.0%	0

		Response Percent	Respons Count
Agriculture, Forestry, Fishing and Hunting		5.4%	3
Mining, Quarrying, and Oil and Gas Extraction		9.7%	7
Utilities		5.4%	3
Construction		2.8%	2
Manufacturing	0	1.0%	
Wholesale Trade	0	0.3%	
Retail Trade		0.3%	
Transportation and Warehousing		1.5%	
Information		8.7%	(
Finance and Insurance		0.0%	
eal Estate and Rental and Leasing	0	0.3%	
Professional, Scientific, and Technical Services		23.5%	17
Management of Companies and Enterprises	0	0.6%	
Administrative and Support and Waste Management and Remediation Services	0	0.6%	
Educational Services		8.0%	Ę
Health Care and Social Assistance	0	0.7%	
orts, Entertainment, and Recreation	0	0.3%	
accommodation and Food Services		0.0%	
Other Services (except Public Administration)		9.3%	(
Public Administration (Government		21.9%	15

answered question	723
skipped question	50

9. How many employees at your comp	oany or organization?		
		Response Percent	Response Count
Less than 20		25.1%	179
21-100		17.7%	126
101-250		10.9%	78
250-2000		24.5%	175
More than 2000		21.7%	155
	answere	ed question	713
	skippe	ed question	60

10. What are the average annual reve	nues of your company in US Dollars?		
		Response Percent	Response Count
Less than \$1,000,000		28.5%	194
\$1,000,001 - \$5,000,000		16.0%	109
\$5,000,001 - \$20,000,000		11.5%	78
\$20,000,001 - \$100,000,000		11.6%	79
\$100,000,001 - \$1 Billion		10.4%	71
Greater than \$1 Billion		7.0%	48
Not Applicable		15.0%	102
	answere	ed question	681
	skipp	ed question	92

11. Is your organization currently involved in any spatial data quality projects?			
		Response Percent	Response Count
Yes, for more than 6 months		46.2%	311
Yes, but only at initial stage		9.2%	62
Yes, but only at planning stage		5.2%	35
Currently under consideration		9.8%	66
No, but maybe in the future		25.0%	168
No we will never do this		4.8%	32
	answere	ed question	673
	skipp	ed question	100

12. In what capacity are you involved	in these spatial data quality projects? (Select all that apply)		
		Response Percent	Response Count
As an end user of spatial data		51.4%	320
As a software systems supplier		23.3%	145
As an independent consultant		25.8%	161
As a systems integrator		28.7%	179
As an academic researcher		20.9%	130
Other (please describe)		18.9%	118
	answere	ed question	623
	skipp	ed question	150

13. How would more accurate or more consistent spatial data help your organization or your customers? (Select all that apply)			
		Response Percent	Response Count
Provide consistent results		71.0%	447
Increase revenues		19.5%	123
Reduce operational costs		50.8%	320
Increase profitability		22.2%	140
Improve my organization's understanding of business problems		27.0%	170
Better meet customer expectations		52.7%	332
Deliver higher quality products		64.3%	405
Improve the decision making process relating to spatial data		62.7%	395
Improve the importance of spatial data		55.7%	351
Other (please explain)		7.8%	49
	answere	ed question	630
	skippe	ed question	143

14. Is data in your organization used data once collected for cartographic	by your end customers fit for its intended purpose? For example a map printing for online analysis?	are you using	the same
		Response Percent	Response Count
Yes – fit for purpose		57.5%	358
No – far from original purpose		17.3%	108
Unsure due to lack of origin information on said data		25.2%	157
	answer	ed question	623
	skipp	ed question	150

15. Do you have a means to quantitat	ively measure your spatial data quality?		
		Response Percent	Response Count
Yes		42.5%	262
No		33.2%	205
Unsure		24.3%	150
	answere	ed question	617
	skipp	ed question	156

16. How do you measure your data quality?	
	Response Count
	254
answered question	254
skipped question	519

17. How do you communicate the quality of your spatial data to your users?		
		Response Count
		247
	answered question	247
	skipped question	526

18. How do you assess the quality of spatial data that you are a consumer of?		
	Response Count	
	558	
answered question	558	
skipped question	215	

19. How do you store your spatial data? (Select all that apply)			
		Response Percent	Response Count
In a spatial database		70.9%	395
In a flat file system on my computer		53.0%	295
In a flat file system on an external drive		42.2%	235
Via a remote web server but not in a database		20.1%	112
On paper or hardcopy		20.6%	115
Other (please specify)		8.6%	48
	answere	ed question	557
	skipp	ed question	216

20. Who is responsible for spatial data quality in your organization?			
		Response Percent	Response Count
Whoever enters the data		25.0%	138
The GIS Manager		19.2%	106
The Data Quality Manager		11.6%	64
The IT Manager/Director/CIO		6.7%	37
No person currently responsible		20.3%	112
Other (please describe their position)		17.4%	96
	answered question		552
	skipp	ed question	221

21. If you currently manage your spatial data quality manually, how much of your current workflow is taken up with manual processes?

processes?			
		Response Percent	Response Count
Up to 25%		52.7%	260
Up to 50%		23.9%	118
More than 50%		14.2%	70
100% (entirely manual)		9.1%	45
	answered question		493
skipped question		280	

22. Are you aware of any current legislation that mandates the way in which data are to be stored or maintained?			
		Response Percent	Response Count
Yes		23.3%	127
No		76.7%	419
answered question		546	
skipped question		227	

23. Please name the legal procedure or appropriate ruling.	
	Response Count
	125
answered question	125
skipped question	648

24. Do you follow any standards in relation to maintaining spatial data quality?			
		Response Percent	Response Count
Yes		44.2%	238
No		55.8%	300
	answere	ed question	538
	skipp	ed question	235

25. Please name the standard(s):	
	Response Count
	234
answered question	234
skipped question	539

26. Do you list spatial data quality requirements in contracts or request for proposals?			
		Response Percent	Response Count
Yes		47.7%	252
No		52.3%	276
	answere	ed question	528
skipped question		245	

27. What are usually the requirements?		
	Response Count	
	247	
answered question	247	
skipped question	526	

28. If you were to place a data project out for bid via an RFP or quote solicitation process, with all things being equal in vendor response to satisfying the terms of the RFP, if a vendor could assure a level of spatial data quality what value would your organization place on it?

		Response Percent	Response Count
Zero – we would not be willing to pay more		26.5%	136
5% higher cost for a data quality guarantee of 100%		15.6%	80
10% higher cost for a data quality guarantee of 100%		25.3%	130
20% higher cost for a data quality guarantee of 100%		20.0%	103
50% or more higher cost for a data quality guarantee of 100%		12.6%	65
	answere	ed question	514
	skippe	ed question	259

29. What is most important to your organization in terms of spatial data quality?			
		Response Percent	Response Count
Attribute information		14.8%	76
Data accuracy		35.9%	184
Meta Data		13.1%	67
Geometric		13.6%	70
Topological		10.1%	52
Other (please specify)		12.5%	64
	answered question		513
	skipp	ed question	260

30. What do you find consistently missing in spatial data?		
	Response Count	
	511	
answered question	511	
skipped question	262	

31. Which of these spatial data quality management activities do you currently undertake in your organization or on behalf of customers:			
		Response Percent	Response Count
Data Augmentation - Enhance data using information from internal and external data sources		39.3%	199
Data Integration – Match, merge or link data from a variety of disparate sources		52.3%	265
Data Profiling – Inspect for errors, inconsistencies, redundancy and incomplete information		38.3%	194
Data Monitoring – Check and control data integrity over time		24.7%	125
Data Validation – Correct, standardize and verify data		41.2%	209
All of the above		36.5%	185
	answered question		507
	skippo	ed question	266

32. Content			
		Response Percent	Response Count
Important		92.1%	453
Not Important		3.3%	16
Unsure		4.7%	23
		Reason	78
	answere	ed question	492
	skipp	ed question	281

33. Scope			
		Response Percent	Response Count
Important		61.2%	301
Not Important		12.2%	60
Unsure		26.6%	131
		Reason	67
	answer	ed question	492
	skipp	ed question	281

34. Level of detail			
		Response Percent	Response Count
Important		85.8%	422
Not Important		7.9%	39
Unsure		6.3%	31
		Reason	75
	answered question		492
	skipp	ed question	281

35. Composition			
		Response Percent	Response Count
Important		53.9%	265
Not Important		13.2%	65
Unsure		32.9%	162
		Reason	61
	answer	ed question	492
	skipp	ed question	281

36. Consistency			
		Response Percent	Response Count
Important		93.1%	458
Not Important		3.3%	16
Unsure		3.7%	18
		Reason	61
	answere	ed question	492
	skipp	ed question	281

37. Reaction to change			
		Response Percent	Response Count
Important		57.7%	284
Not Important		16.9%	83
Unsure		25.4%	125
		Reason	74
	answered question		492
	skipp	ed question	281