

Statewide GIS Coordination

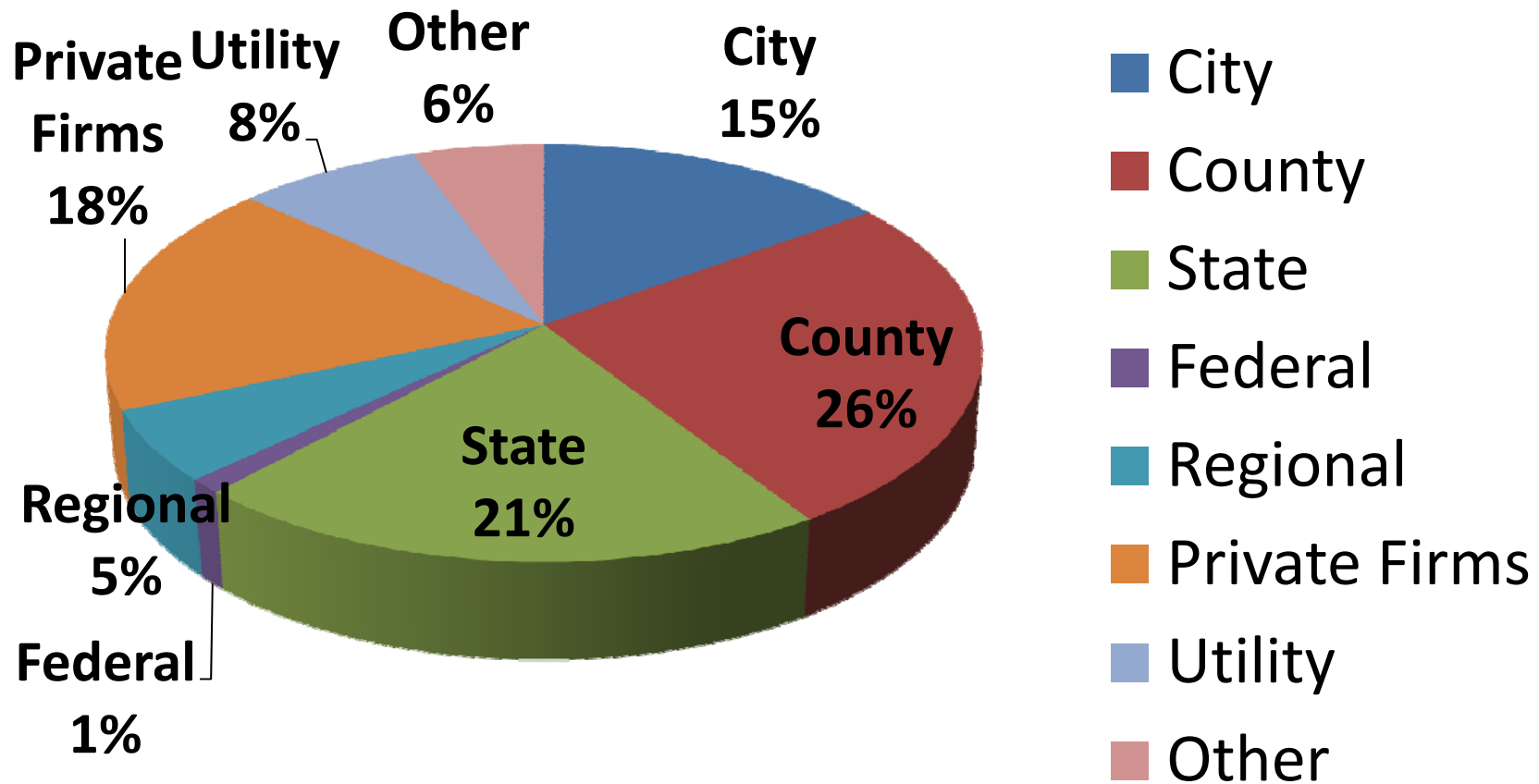


Florida GIS Coordination On-Line Survey Results (as of 12/09/10)

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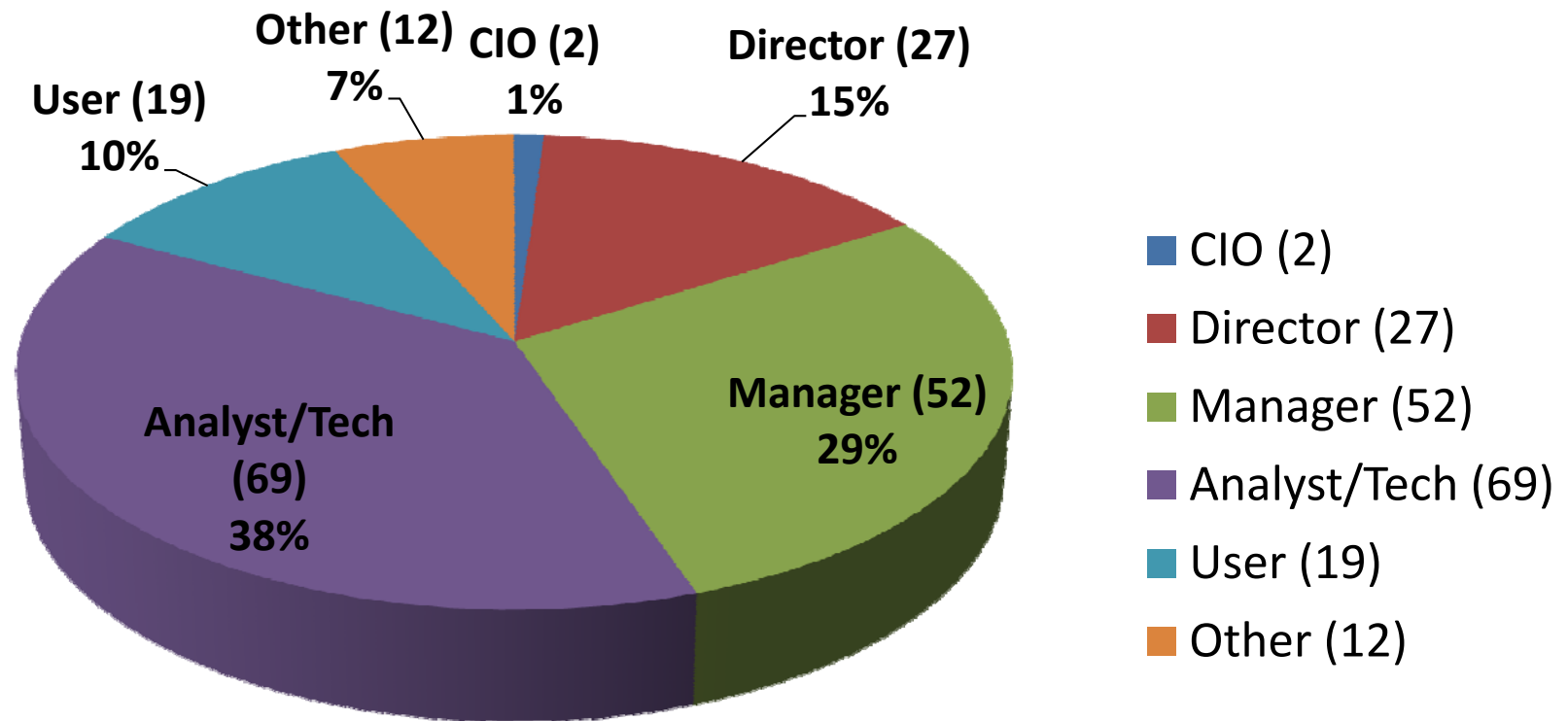


Survey Respondents 191 Total



- **Other** includes: School Districts, Universities, Not-For-Profit, Professional or Trade Association

Titles of Respondents



- **Other** includes: GIS Coordinator, Planner, Surveyor, Geographer, Engineer, Information Technologist, Forester

Business Drivers for GIS

- A “business driver” is a major program area, need, or challenge that GIS technology and geospatial data can help support or address.

Business Driver	Responses	
	Percent	Count
Land Use Planning	50.7%	76
Infrastructure Asset Management or Maintenance	46.7%	70
Public Safety [law enforcement, crime analysis, emergency response, fire, E-911]	46.0%	69
Engineering Modeling or Analysis	46.0%	69
Transportation Planning	42.7%	64
Land Development or Other Permit Review and Tracking	40.7%	61
Natural Resource Planning or Management	40.7%	61
Environmental Assessment and Regulatory Management	40.0%	60
Parks and Recreation	38.7%	58
Transportation Management	30.0%	45

Investment in GIS

	Response Average	Response Total	Response Count	Annual Investment
Hardware (\$)	\$ 200,563	\$ 9,827,600	49	\$ 40,113
Software (\$)	\$ 396,733	\$ 19,439,900	49	\$ 79,347
Data (\$)	\$ 1,223,474	\$ 33,033,800	27	\$ 244,695
Personnel (\$)	\$ 1,441,466	\$ 41,802,500	29	\$ 288,293
Contracted GIS Services (\$)	\$ 839,331	\$ 16,786,620	20	\$ 167,866
Other (\$)	\$ 590,000	\$ 1,180,000	2	\$ 118,000
			<i>answered question</i>	49

- Over the last 5 years

Reported Investment in GIS

	Response Count	Annual Investment	If average applied to each organization
Hardware (\$)	49	\$ 40,113	\$ 5,655,884
Software (\$)	49	\$ 79,347	\$ 11,187,861
Data (\$)	27	\$ 244,695	\$ 34,501,969
Personnel (\$)	29	\$ 288,293	\$ 40,649,328
Contracted GIS Services (\$)	20	\$ 167,866	\$ 23,669,134
Other (\$)	2	\$ 118,000	\$ 16,638,000
<i>answered question</i>	49		
			\$ 132,302,176

- **145 Organizations responded to the survey**

Investment in GIS

- Government entities in FL spend approximately

\$132,000,000 per year

**on GIS hardware, software, personnel, data, and
contracted GIS services!**

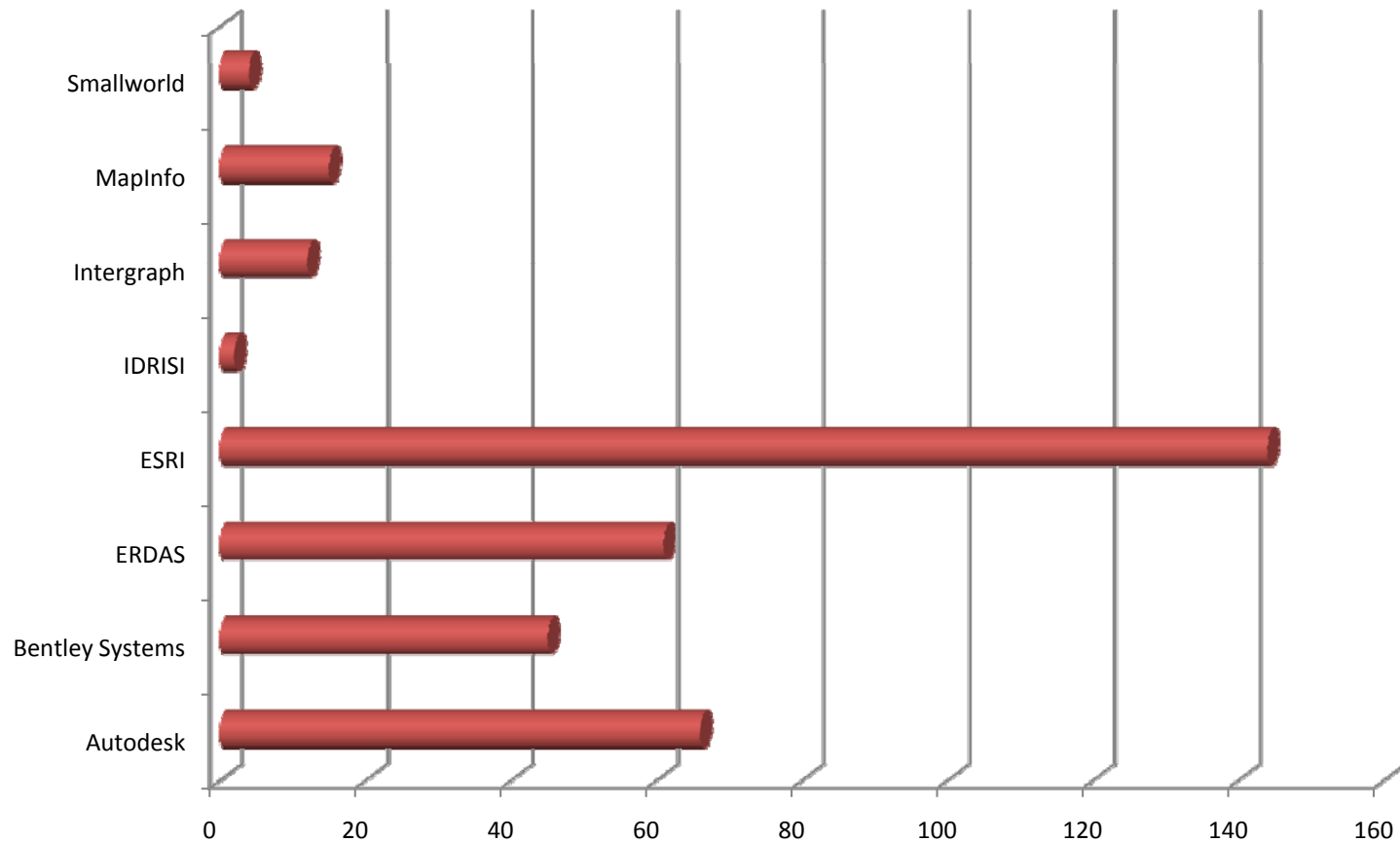
- Based on 145 organizations responding. This number is likely much larger when all levels of government are considered.

Desktop GIS Licenses

	Licenses			Cost		
	Number	Responding	Per Organization	Expenditure	Responding	Per Organization
Autodesk	1,034	53	19.5	\$ 895,000	38	\$ 16,731
Bentley Systems	467	16	29.2	\$ 100,000	8	\$ 5,882
ERDAS	253	28	9.0	\$ 152,500	16	\$ 4,914
ESRI	3,532	111	31.8	\$ 4,495,000	81	\$ 34,776
IDRISI	9	8	1.1	\$ 2,500	1	\$ 313
Intergraph	109	11	9.9	\$ 57,500	5	\$ 5,227
MapInfo	202	14	14.4	\$ 145,000	8	\$ 9,063
Smallworld	151	7	21.6	\$ 162,500	2	\$ 23,214
Totals	5,755	248		\$ 6,010,000	159	

- Only Government responses included in table.
- Total includes only those that reported a cost

Organizations Desktop GIS Software



Server GIS Licenses

	In Use	Cost	Provided Cost Info
ArcGIS Server	105	\$ 1,155,000	54
MapServer	3	\$ 7,500	1
GeoServer	3	\$ 5,000	2
Manifold System	3	\$ 2,500	1
Other?	10	\$ 65,000	6
TOTAL	124	\$ 1,235,000	64

- **Only Government responses included in table.**
- **Total includes only those that provide a cost.**

GIS Benefits

Answer Options	Yes	No	Not Applicable
Improved Decision Making	116	0	1
Improved Timeliness and Quality of Data and Services	114	3	2
Improved Staff Productivity/Labor Cost Savings	109	4	3
Reduction in Duplication and Redundancy	96	12	4
Catalyst for Partnerships and Information Sharing	89	7	15
More Effective Management/Allocation of Field Services	89	12	12
Reduced Costs from Asset Management	74	13	19
Protection/Enhancement of Natural Resources	81	8	27
Support for Economic Development Initiatives	71	10	28
Legal Compliance/Protection Against Expensive Legal Claims	70	12	29
Savings of Life and Property	70	16	25
Avoidance of New Costs	64	21	22
Code Compliance/Improved Voluntary Compliance	65	12	28
Savings in Capital Project Design and Construction	62	16	30
Reduced Costs Through Joint Funding	59	20	25
Increase in Revenue [improved collection of taxes]	56	21	29
Protection from Catastrophic Records Loss	43	25	40

Value of GIS to Organizations

	Average	Total	Count
Staff Productivity and Labor Cost Savings	\$ 961,100	\$ 9,611,000	10
Revenue Increases [improved collection of taxes, fees, fines, insurance claims, etc.]	\$ 2,500,000	\$ 15,000,000	6
Reduction in Duplication and Redundancy	\$ 542,929	\$ 3,800,500	7
Asset Management	\$ 1,030,000	\$ 5,150,000	5
Support for Economic and Business Development Initiatives	\$ 45,167	\$ 271,000	6
Avoidance of New Costs	\$ 1,050,000	\$ 3,150,000	3
Savings in Capital Project Design	\$ 1,840,000	\$ 9,200,000	5
Savings in Infrastructure Maintenance and Design	\$ 801,667	\$ 4,810,000	6
More Effective Management/Allocation of Field Services	\$ 450,000	\$ 2,250,000	5
Reduced Costs Through Joint Funding	\$ 301,333	\$ 1,808,000	6
			<i>answered question</i> 10
			<i>skipped question</i> 171

- **Benefits identified over the last 5 years.**

Total Potential Benefit to State

	Response Average	Response Count	Identified as Benefit of GIS	Potential Benefit to State
Staff Productivity and Labor Cost Savings (\$)	\$ 961,100	10	105	\$ 100,915,500
Revenue Increases [improved collection of taxes, fess, fines, insurance claims, etc.] (\$)	\$ 2,500,000	6	53	\$ 132,500,000
Reduction in Duplication and Redundancy (\$)	\$ 542,929	7	92	\$ 49,949,429
Asset Management (\$)	\$ 1,030,000	5	75	\$ 77,250,000
Support for Economic and Business Development Initiatives (\$)	\$ 45,167	6	68	\$ 3,071,333
Avoidance of New Costs (\$)	\$ 1,050,000	3	61	\$ 64,050,000
Savings in Capital Project Design (\$)	\$ 1,840,000	5	60	\$ 110,400,000
Savings in Infrastructure Maintenance and Design (\$)	\$ 801,667	6	6	\$ 4,810,000
More Effective Management/Allocation of Field Services (\$)	\$ 450,000	5	85	\$ 38,250,000
Reduced Costs Through Joint Funding (\$)	\$ 301,333	6	57	\$ 17,176,000
TOTAL				\$ 598,372,262

Potential Benefits from GIS

- Government entities in FL benefit approximately

\$120,000,000

**annually from their investment in
GIS hardware, software, personnel, data, and
contracted GIS services**

Benefits to Counties

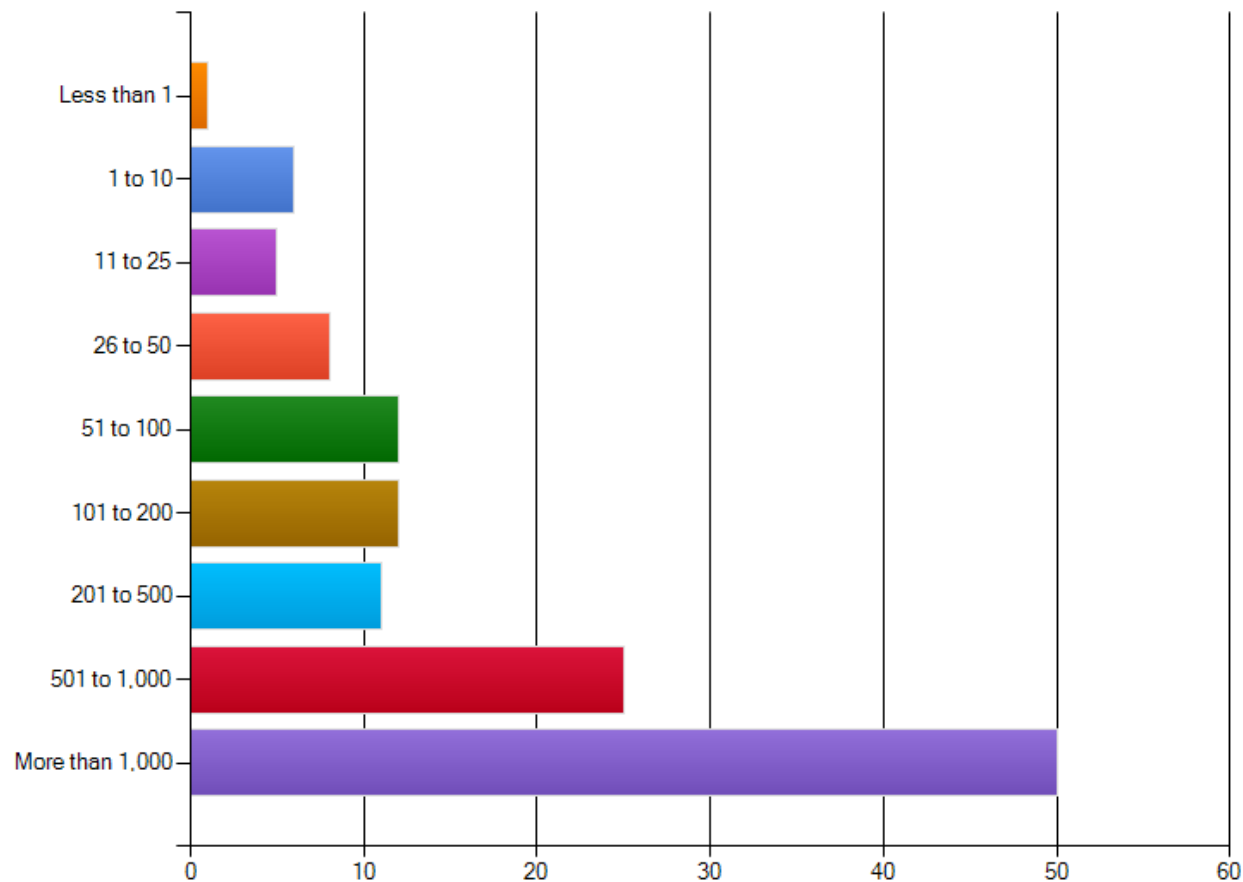
- Only 33 of 67 Counties responded
- If the average County reported benefits are extended to the 34 that did not respond an additional \$116,767,000 of benefits may be possible.

What Should a GIS Coordination Effort Do?

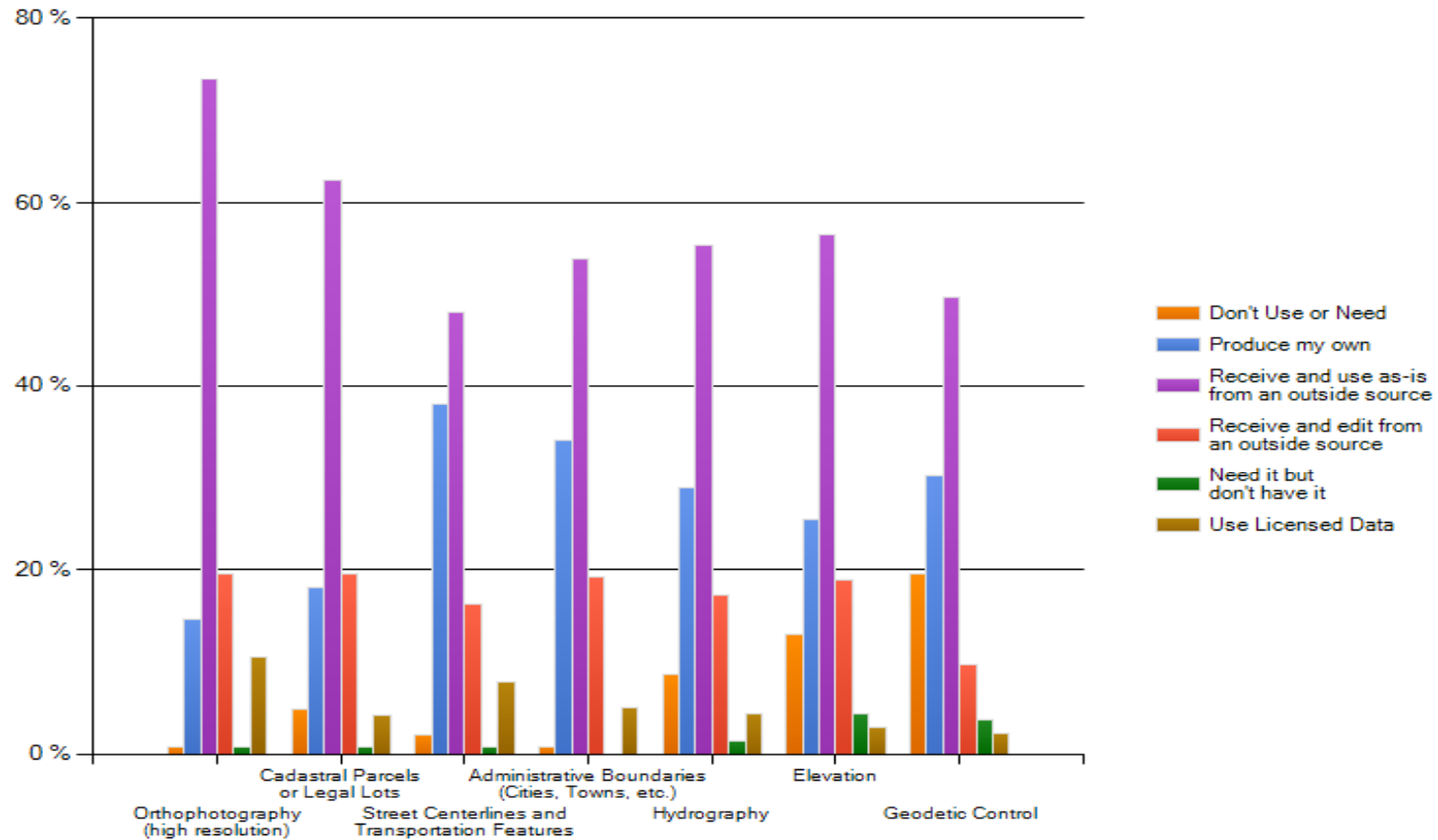
Answer Options	Yes	Pct	No
Facilitate data exchange and provide documentation	101	95.28%	5
Facilitate multi-agency data acquisition projects	98	93.33%	7
Work with the GIS community to develop best practices and guidelines	98	93.33%	7
Provide access to federal and state grant opportunities	94	92.16%	8
Advocate funding for GIS technology and data investments	95	91.35%	9
Develop websites designed to promote and facilitate GIS program coordination, GIS data discovery, and data exchange	92	89.32%	11
Work with the GIS community and NSGIC to facilitate the development of common standards in support of product generation and data exchange	92	89.32%	11
Coordinate technical and policy issues between agencies and organizations	88	88.00%	12
Aggregate data into seamless statewide layers	90	87.38%	13
Coordinate bulk purchasing of training, software, and data	89	87.25%	13
Facilitate a program of data stewardship designed to maintain and update the state's GIS data holdings	90	86.54%	14
Develop a contract vehicle for GIS services	73	74.49%	25
Purchasing and Procurement	63	64.95%	34

How much GIS data do we have?

What is the approximate quantity of storage required for your GIS data? (in GB)

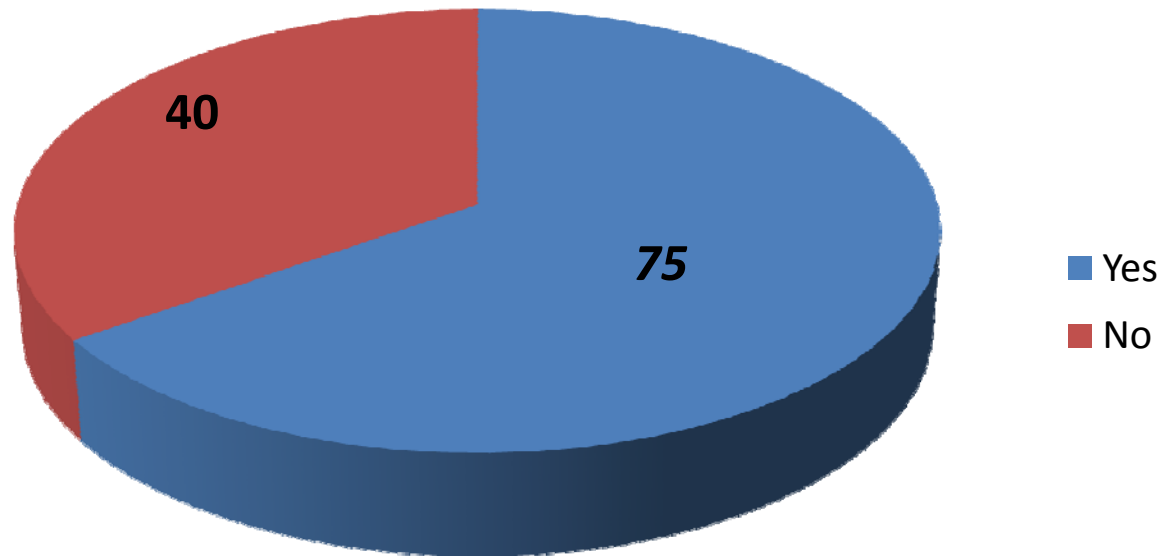


Where do we get “foundation” data?



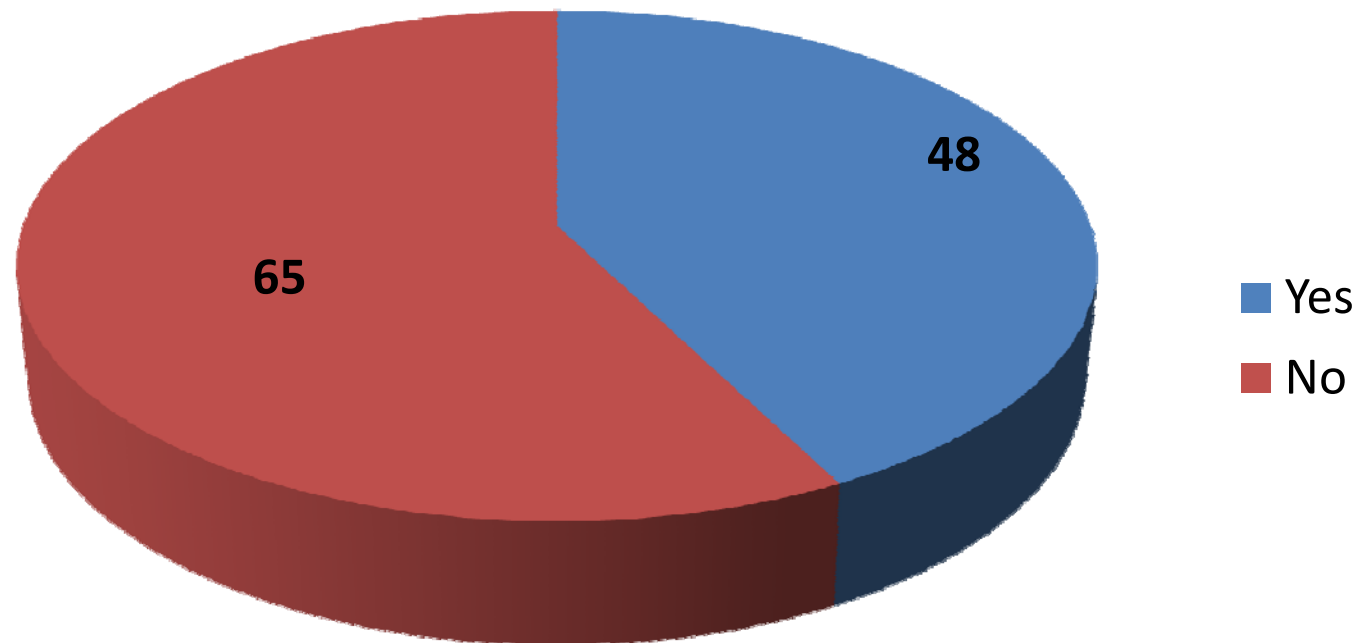
Who provides map services?

- Do you provide map services?



How can I get data?

- Do you have on-line data download enabled?



What is being used for GIS application development?

- **.net 73**
- **Flex 34**
- **Silverlight 27 (many responses beginning to use)**
- **adf 11**
- **Other 5 (magik, coldfusion, php, xml)**
- **VBA 3**
- **Google API 2**

Strategic Plan History

- FGDC Grant
- October 2007 – April 2008
- 3 regional user conferences 520+ stakeholders engaged, online survey, interviews
- 3 regional workshops 150+ participants
- <http://www.floridadisaster.org/gis/capgrant>



Strategic Goals

- **Provide leadership** for coordination of GIS efforts across all levels of government throughout the state.
- **Invest in GIS infrastructure** to fully realize the benefits of shared geospatial data and technology.
- **Communicate and educate** all concerned about the benefits and capabilities achieved by investments in GIS to support effective decision making.



Programmatic Goals

- Establish a formal framework for successful GIS coordination
 - Create Geospatial Programs Office headed by a GIS Coordinator
 - Create a Geographic Information Council
 - Empower Technical Advisory Committees



State CIO Office

- Agency for Enterprise Information Technology

Subsection 14.204 (4) (e), Florida Statutes (F.S.) states that beginning October 1, 2010, the Agency for Enterprise Information Technology (AEIT) *“shall develop, publish, and biennially update a long-term strategic enterprise information technology plan that identifies and recommends strategies and opportunities to improve the delivery of cost-effective and efficient enterprise information technology services to be proposed for establishment pursuant to s.282.0056, F.S.”*



State CIO Office

“Tremendous potential exists for Geographic Information Service (GIS) as an enterprise service to revolutionize the way information can be leveraged to empower state government. By creating a formal, centrally coordinated organizational structure to better manage GIS resources, Florida has the potential to improve information used for the allocation of resources, obtain additional federal funding, save costs at the program level and improve quality of services to the public.”



State CIO Office

AEIT recommends the following:

- *Making GIS an enterprise service and allocating two additional resources (one lead and one project analyst) effective July 1, 2011.*
- *Creating, in statute, the Geographic Information Office (GIO) within AEIT, with a GIS state coordinator overseeing the GIS program and solutions in Florida, effective July 1, 2011.*
- *Forming a Geographic Information Council (GIC) in statute, consisting of members appointed by state agencies, local and federal entities, effective July 1, 2011. GIC shall provide guidance to the GIO on issues related to GIS technology, data, and people.*



Statewide GIS Coordination

- Agency for Enterprise Information Technology Strategic Plan
 - <https://aeit.myflorida.com/agencyprojects>
 - Results of state agency survey in Addendum A
 - Report from GIS Workgroup in Addendum B
- GIS Use Survey
 - <http://www.surveymonkey.com/s/FL-GIS-Coordination-Survey>



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Want to add your information?

- www.surveymonkey.com/s/FL-GIS-Coordination-Survey
- **Questions or concerns:**
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 - **(407) 608-4186**