



# Davenport Group | ESRI System Architecture Assessment

## Are You Ready for Enterprise GIS?

The purpose of this assessment is to gather information about your organization's current IT environment, evaluate your goals and objectives, and identify any potential performance or implementation issues associated with deploying enterprise GIS. There may be questions in this assessment that are outside your domain. Please answer each question to the best of your ability; we will fill in gaps, if needed, at a later date.

Thank you for your interest in ESRI and Davenport Group. We look forward to assisting you with your GIS needs.

Please begin the assessment on the following page.

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## I. Your Organization

Help us understand your organization and your role:

1. Your industry:

- Business
- Conservation
- Defense, Intelligence
- Education
- Architecture, Engineering, Construction
- Government (Federal)
- Government (State or Local)
- Healthcare
- Natural Resources
- Public Safety
- Transportation
- Utilities, Communications
- Other:

2. Organization Size:

- Less than 25 employees
- 25 - 49 employees
- 50 - 99 employees
- 100 - 199 employees
- 200 - 499 employees
- 500 - 999 employees
- 1000 - 2499 employees
- 2500 - 4999 employees
- 5000 + employees

3. Size of jurisdiction - population (government respondents only):

- Less than 25,000
- 25,000 - 49,999
- 50,000 - 99,000
- 100,000 - 249,999
- 250,000 - 499,999
- 500,000 - 999,999
- 1,000,000 - 2,999,999
- 3,000,000 - 4,999,999
- 5,000,000+

4. Your Department:

5. Your Position or Title:

## I. Your Applications

Help us understand how your organization uses IT and GIS today. The more detail you provide, the better we will understand your current environment.

What software applications are in use throughout your organization? (Check all that apply)	√	How many users?		Is this application GIS enabled?		If yes, how many of the users edit GIS?		If no, are there plans to GIS-enable in the future?	
		Yes	No	Yes	No	Yes	No	Yes	No
Accounting/Financial Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Agenda Preparation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Agricultural Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appraisal/CAMA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asset Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Budget	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business Intelligence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business Licensing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidate Filing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Campaign Finance/Reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Code Enforcement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Computer Aided Dispatch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Court Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Customer Relations Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Defense/Military	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Document Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e-Commerce	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e-Government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engineering/CAD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ERP/SAP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Executive Dashboard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Facility Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Field/Incident Reporting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fire/Emergency Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fleet Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HR/Personnel Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inventory Control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jail Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jury Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Records Management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Surveying	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mapping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motor Vehicle Tax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Property Tax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public Safety/RMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purchasing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SCADA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tax Billing & Collections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tax Billing IVR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Time & Attendance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transportation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utility Billing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voter Registration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Work Orders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What software applications are in use throughout your organization? (Check all that apply)	✓	How many users?		Is this application GIS enabled?		If yes, how many of the users edit GIS?	If no, are there plans to GIS-enable in the future?	
		Yes	No	Yes	No		Yes	No
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

6. What GIS applications are used? (Check all that apply and indicate license type.)

GIS Applications	Number of Licenses		
	✓	Single	Floating / Concurrent
<b>Desktop GIS</b>			
ArcInfo	<input type="checkbox"/>	N/A	
ArcEditor	<input type="checkbox"/>	N/A	
ArcView	<input type="checkbox"/>		
ArcReader	<input type="checkbox"/>		N/A
ArcExplorer	<input type="checkbox"/>		N/A
ArcGIS Engine Runtime	<input type="checkbox"/>		N/A
ArcView GIS (3.x)	<input type="checkbox"/>		
MapObjects	<input type="checkbox"/>	N/A	
Other (specify)	<input type="checkbox"/>		
<b>Server GIS</b>			
ArcGIS Server Advanced	<input type="checkbox"/>		
ArcGIS Server Standard	<input type="checkbox"/>		
ArcGIS Server Basic	<input type="checkbox"/>		
ArcSDE	<input type="checkbox"/>		
ArcIMS	<input type="checkbox"/>		
ArcGIS Image Server	<input type="checkbox"/>		
Other (specify)	<input type="checkbox"/>		
<b>Mobile GIS</b>			
ArcGIS Mobile (SmartClient)	<input type="checkbox"/>		
ArcPad	<input type="checkbox"/>		
StreetMap Mobile Software (SDK)	<input type="checkbox"/>		
ArcInfo	<input type="checkbox"/>		
ArcEditor	<input type="checkbox"/>		
ArcView	<input type="checkbox"/>		
ArcReader	<input type="checkbox"/>		
ArcExplorer	<input type="checkbox"/>		
ArcGIS Engine Runtime	<input type="checkbox"/>		
ArcView GIS (3.x)	<input type="checkbox"/>		
MapObjects	<input type="checkbox"/>		

GIS Applications	Number of Licenses
	√
Other (specify)	<input type="checkbox"/>
<b>Online GIS</b>	
ArcGIS Online	<input type="checkbox"/>
ArcWeb Services	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
<b>3<sup>rd</sup> Party Access</b>	
AutoCad	<input type="checkbox"/>
Microstation	<input type="checkbox"/>
OGC clients (specify)	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>

**7. What is your IT organizational model?**

- Centralized (single IT manager/authority)
- Cooperative (any multi-jurisdictional authority, e.g. a steering committee)
- Distributed (department-level authority)
- Disjointed (multiple authorities without coordination)

**8. What is your GIS organizational model?**

- Centralized (single GIS manager/authority)
- Cooperative (any multi-jurisdictional authority, e.g. a steering committee)
- Distributed (department-level authority)
- Disjointed (multiple authorities without)

**9. Is GIS part of the IT department?**

- Yes
  No
  Not sure

**10. If no, in what department is GIS located?**

## II. - Your Environment

Tell us all you can about your IT environment. We understand you may not be an IT person but do the best you can. If you do not know the answer, check “not sure” and move on to the next question. The more detail you provide the better we will understand your organization’s IT environment.

11. How many servers do you have in your primary data center? Select one.

- Less than 5
- 5-25
- 25-50
- 50-100
- 100+
- Not sure

12. How many servers support GIS? Select one.

- |                                |                                   |
|--------------------------------|-----------------------------------|
| <input type="checkbox"/> None  | <input type="checkbox"/> 25-29    |
| <input type="checkbox"/> 2-5   | <input type="checkbox"/> 50-99    |
| <input type="checkbox"/> 5-9   | <input type="checkbox"/> 100+     |
| <input type="checkbox"/> 10-14 | <input type="checkbox"/> Not sure |
| <input type="checkbox"/> 15-24 |                                   |

13. Do you have more than one data center?

- Yes                                       No                                       Not sure

14. If yes, how many additional sites do you have?

- |                            |                                   |
|----------------------------|-----------------------------------|
| <input type="checkbox"/> 1 | <input type="checkbox"/> 4        |
| <input type="checkbox"/> 2 | <input type="checkbox"/> 5+       |
| <input type="checkbox"/> 3 | <input type="checkbox"/> Not sure |

15. Do you use DAS (Direct Attached Storage)?

- Yes                                       No                                       Not sure

16. If yes, please list brand, model, and capacity.

17. Do you use NAS (Network Attached Storage)?

- Yes
- No
- Not sure

18. If yes, please list brand, model, and capacity.

19. Do you use a SAN (Storage Area Network)?

Yes

No

Not sure

20. If yes, please list brand, model, and capacity.

21. How much storage do you currently have? Select one.

- Less than 500GB
- 500-750GB
- 750GB-1TB
- 1-2TB
- 2-4TB
- 4-6TB
- 6-10TB

- 10-15TB
- 15-25TB
- 25-50TB
- 50-100TB
- 100TB+
- Not sure

22. How much storage do you anticipate adding in the next 12 months? Select one.

- Less than 500GB
- 500-750GB
- 750GB-1TB
- 1-2TB
- 2-4TB
- 4-6TB
- 6-10TB

- 10-15TB
- 15-25TB
- 25-50TB
- 50-100TB
- 100TB+
- Not sure

23. Approximately how much of your total storage is currently in use?

- Less than 25%
- 25-49%
- 50-74%

- 75-89%
- 90-100%
- Not sure

24. Which of the following Operating Systems (OS) do you use? (Check all that apply.)

- Windows
- Novell
- Linux
- Sun

- UNIX
- Other
- Not sure

25. Describe your network environment, both LAN and WAN.

26. Does your organization support VPN access over WAN environments, dial-up access to central computer facilities, or any other access to their internal LAN/WAN environment?

- Yes  No  Not sure

27. If yes, please describe.

28. Is your data stored on database or file servers?

- File Servers (Shape Files/Coverages)  
 DBMS (SDE/Geodatabases)  
 Not sure

29. Do you use any of the following DBMS database applications? (check all that apply)

- Oracle  Other  
 Microsoft SQL  Not sure  
 My SQL  
 Oracle Spatial

30. Do you use server virtualization?

- Yes  No  Not sure

31. If yes, which virtualization technology do you use?

- VMWare  Other  
 Microsoft Virtual Server  Not sure  
 Virtual Iron

32. How do you manage backup?

- Tape  Other  
 Back-up Appliance  Not sure  
 Web/Service Provider  
 Replication

33. What backup software do you use? (Select one)

- None  CA  
 Veritas Net Backup  Other  
 Veritas Backup Exec  Not sure  
 Legato

34. Do you keep a copy of your backup offsite?

- Yes  No  Not sure

35. If yes, how current is the copy?



36. Do you test your backup and recovery?

Yes

No

Not sure

37. If yes, how do you test it?

38. Do you have a disaster recovery plan?

Yes

No

Not sure

39. If yes, how often do you test it?

### III. -Challenges, Opportunities, Constraints

Tell us all you can about the challenges you face and your projects and plans for the future.

40. Which areas of IT and/or GIS present the biggest challenges? (Check all that apply.)

Data growth

Storage capacity

Backup and recovery

Network performance

Aging infrastructure

Limited staffing

Other

Not sure

41. Specifically, what are your organization's biggest pain points?

42. What types of IT projects do you plan to implement in the next 24 months? (Check all that apply.)

Storage

Network infrastructure

Backup

Disaster recovery

Virtualization

Other

Not sure

43. What types of GIS projects are you planning to implement in the next 24 months? (Check all that apply.)

- |  |  |
|--|--|
| <input type="checkbox"/> Migration to ArcGIS Server        | <input type="checkbox"/> Computer Aided Dispatch Integration     |
| <input type="checkbox"/> Ortho-imagery                     | <input type="checkbox"/> CAMA Integration                        |
| <input type="checkbox"/> LIDAR                             | <input type="checkbox"/> Elections/Voting System Integration     |
| <input type="checkbox"/> Pictometry                        | <input type="checkbox"/> Public Health Integration               |
| <input type="checkbox"/> Executive Dashboard               | <input type="checkbox"/> Environmental Health Permit Integration |
| <input type="checkbox"/> SCADA Integration                 | <input type="checkbox"/> Real Estate/Property Management I       |
| <input type="checkbox"/> Work Order Integration            | <input type="checkbox"/> Land Development Integration            |
| <input type="checkbox"/> Asset Management Integration      | <input type="checkbox"/> ERP/SAP Integration                     |
| <input type="checkbox"/> Business Intelligence Integration | <input type="checkbox"/> Transportation Systems Integration      |
| <input type="checkbox"/> Public Safety Integration         | <input type="checkbox"/> Not sure                                |
| <input type="checkbox"/> Web project (Describe)            | <input type="checkbox"/> Other                                   |
| <input type="checkbox"/> Mapping project (Describe)        | <input type="checkbox"/> Mobile project (Describe)               |

44. Does your organization have a standard O/S platform for desktops?

- Yes                                       No                                       Not sure

45. If yes, indicate the platform:

- |                                  |                                |
|----------------------------------|--------------------------------|
| <input type="checkbox"/> Windows | <input type="checkbox"/> Linux |
| <input type="checkbox"/> Unix    | <input type="checkbox"/> SUN   |
| <input type="checkbox"/> Other   |                                |

46. Does your organization have a standard O/S platform for servers?

- Yes  
 No  
 Not sure

47. If yes, indicate the platform:

- |                                  |                                |
|----------------------------------|--------------------------------|
| <input type="checkbox"/> Windows | <input type="checkbox"/> Linux |
| <input type="checkbox"/> Unix    | <input type="checkbox"/> SUN   |
| <input type="checkbox"/> Other   |                                |

48. Does your organization have a standard database management system (DBMS)?

- Yes                                       No                                       Not sure

49. If yes, indicate the DBMS:

- |  |                                |
|--|--------------------------------|
| <input type="checkbox"/> Microsoft SQL | <input type="checkbox"/> Other |
| <input type="checkbox"/> Oracle        |                                |
| <input type="checkbox"/> MySQL         |                                |

**Tell us about your data and system availability requirements:**

50. How important is it that data and systems be available during “normal” business hours (i.e. Monday – Friday, 8:30 AM to 5 PM) (Check one.)

- Very important
- Somewhat important
- Not important

51. How important is it that data and systems be available 24 hours a day, 7 days a week? (Check one.)

- Very important
- Somewhat important
- Not important

52. What type of web access security does your organization use?

- Reverse proxy
- Authentications
- Firewalls
- Not sure

**Tell us about your connectivity:**

53. What type of connectivity do you have between departments/facilities? (Check all that apply.)

- |   |                                     |
|---|-------------------------------------|
| <input type="checkbox"/> T1 (1.544Mbps)           | <input type="checkbox"/> Fiber      |
| <input type="checkbox"/> T3 (45Mbps)              | <input type="checkbox"/> Ethernet   |
| <input type="checkbox"/> Fractional T1 (256Kbps+) | <input type="checkbox"/> Wireless   |
| <input type="checkbox"/> Metro-Ethernet (10Gbps+) | <input type="checkbox"/> None       |
| <input type="checkbox"/> Cable                    | <input type="checkbox"/> Don't know |

54. What type of connectivity do you have to the Internet? (Check all that apply):

- |   |                                     |
|---|-------------------------------------|
| <input type="checkbox"/> DSL                      | <input type="checkbox"/> Cable      |
| <input type="checkbox"/> T1 (1.544Mbps)           | <input type="checkbox"/> Satellite  |
| <input type="checkbox"/> T3 (45Mbps)              | <input type="checkbox"/> Dial-up    |
| <input type="checkbox"/> Fractional T1 (256+)     | <input type="checkbox"/> None       |
| <input type="checkbox"/> Metro-Ethernet (10Gbps+) | <input type="checkbox"/> Don't know |

55. Does your organization have adequate bandwidth to support current web services?

Internally (for departmental/Intranet users)

- Yes
- No
- Don't know

Externally (for public/Internet users)

- Yes
- No
- Don't know

56. Based on existing projects and plans, will your organization have adequate bandwidth to support web services one year from now?

Internally (for departmental/Intranet users)

- Yes
- No
- Don't know

Externally (for public/Internet users)

- Yes
- No
- Don't know

57. Do you run batch processes during the day?

- Yes
- No
- Don't know

58. If yes, how does this impact system performance for other users?

59. Do you run backups during the day?

- Yes
- No
- Don't know

60. If yes, how does this impact system performance for other users?

61. Do you support a printed map facility?

- Yes
- No
- Don't know

62. Do you support an interactive map production service?

- Yes
- No

Don't know

63. If yes, how does this impact system performance for other users?

64. How many concurrent users access dynamic GIS mapping services? (e.g. users of ArcIMS Server)

1-4  
 5-9  
 10-14

15-19  
 20+  
 None

65. How many concurrent users access cached services? (Only available in ArcGIS Server.)

1-10  
 11-20  
 21-30

31-49  
 50+  
 None

66. How many concurrent users access mash-ups/fused services?

1-4  
 5-9  
 10-14

15-19  
 20-30  
 31+

67. How many concurrent editors?

1-4  
 5-9  
 10-14

15-19  
 20-30  
 31+

68. How would you characterize the majority of your edits? (Mostly short transactions, e.g. quick attribute changes; or long transactions, e.g. COGO subdivision entries?)

69. How current must your maps be?

70. Is the database exclusive for GIS or shared with other applications?

GIS exclusive  
 Shared  
 Not sure

71. Is there perceived value in moving from printed maps to interactive maps?

Yes  
 No

Already doing this  
 Not sure

72. Would staff be likely to use SmartPhones, PDAs or other handheld devices to access maps in the field?

- Yes
- No

- Already doing this
- Not sure

73. Would field crews be accepting of field data entry through mobile devices if their edits were directly approved and accessible?

- Yes
- No

- Already doing this
- Not sure

## V. Support and Staffing

74. How does your organization currently support hardware and software? (Select all that apply.)

- Self-support
- Contractors
- IT staff

- Maintenance Agreements
- Not sure
- Other

75. How does your organization support networks or maintain user accounts across the enterprise? (Select all that apply.)

- Self-support
- Contractors
- IT staff
- Maintenance Agreements

- Not sure
- Other

76. Identify any standards or strategic initiatives related to support that could impact GIS.

77. What specific positions provide IT or GIS support (check all that apply):

- IT Help Desk
- PC Technicians
- Network Admin/Techs
- Storage Admin/Techs
- Programmers
- System Administrators
- System Analysts

- DBAs
- Other IT staff
- GIS Technicians
- GIS Coordinators
- GIS Analysts
- Mapping Technicians
- Other GIS staff

78. What specific training investments have been made to support IT/GIS personnel?

- Self-study
- Virtual campus courses
- Instructor-led courses (onsite)
- Instructor-led courses (offsite)
- Training by consultants
- Online seminars/webinars
- Conferences/workshops
- Other

79. What, if any, additional training is needed?

## VI. Financial Considerations

80. What if any purchasing constraints impact hardware or software procurement in your organization (e.g. budget process, formal/informal bid requirements, etc.)

81. What if any policies or strategies are in place for deploying new technology or upgrading the infrastructure (e.g. an asset management/replacement policy, strategic IT plan, etc.)

82. Describe how budgets are established in your organization.

83. Is there support for seeking additional funding through mechanisms such as grants?

Yes

No

Not sure

## VI. Other

84. Please describe any other pertinent information about your organization's current system architecture that could aid in the system architecture design effort.

## VII. Your Contact Information

Name:

Title:

Organization:

Email:

Phone:

Address:

Best time/way to reach you:

## Congratulations!

You have taken your first step toward enterprise GIS. Thank you for taking the time to complete our System Architecture Assessment questionnaire.

Our GIS infrastructure evaluation team will review your information and then contact you for further discussion before making our recommendations.

We appreciate this opportunity to assist you.