

# GIS Technology Survey for Assessment Professionals

1. Approximately, how many total parcels/properties are within your jurisdiction?

- |  |  |
|--|--|
| <input type="radio"/> 1 to 4,999       | <input type="radio"/> 100,000 to 249,999 |
| <input type="radio"/> 5,000- 9,999     | <input type="radio"/> 250,000 to 499,999 |
| <input type="radio"/> 10,000 to 14,999 | <input type="radio"/> 500,000 to 999,999 |
| <input type="radio"/> 15,000 to 24,999 | <input type="radio"/> 1 million or over  |
| <input type="radio"/> 25,000 to 49,999 | <input type="radio"/> Not applicable     |
| <input type="radio"/> 50,000 to 99,999 |  |

2. Please enter your workplace or agency zip code or postal code. (This information will be used to obtain a general idea of what is happening globally.)

3. Do you routinely use GIS in your work processes?

- Yes
- No, I personally do not, but other staff members use GIS for their work functions
- Don't know

4. If you or your office staff use GIS, indicate for what operational purposes. (Select the most accurate answer for each task described below.)

	Yes, I do	No, but others in my office do	No, and I don't know if others use it
Maintenance and yearly updates of the property map	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Neighborhood analysis for valuation development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Creation of locational influence variable for mass appraisal modeling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Value outlier detection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visualizing valuation model performance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Visualizing valuation mass appraisal data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Yes, I do	No, but others in my office do	No, and I don't know if others use it
Visualizing valuation for appeal review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Aerial or Oblique Imagery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Property change detection over time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Street level Imagery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Electronic desktop property characteristic review and verification	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
LiDAR applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Field Data Collection	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Divisions and consolidations of properties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D images and analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Drones	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tax/Parcel Map Book production	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online interactive taxpayer inquiries and communication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online property tax appeals submission	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online interactive mapping tools for public use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

5. Do you or your office staff use GIS software to help schedule and manage your field appraisers in the following ways? (Select the most accurate answer for each operational task listed below.)

	Yes, I do	No, but others in my office do	No, and I don't know if others use it
Scheduling of work assignments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Routing of field work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Tracking field work production and status	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

6. What technologies do you or your office use to manage your parcels and maps?

	Yes, I do	No, but others in my office do	No, and I don't know if others use it
Ink on mylar	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CAD (AutoCAD, MicroStation, other)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GIS coverages	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
GIS geodatabase	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Parcel fabric

Others, please list and explain

7. Does your office maintain historical changes of parcel/property identification and parcel boundary lines?

- Yes
- No
- No, but another government office in our jurisdiction does
- Don't know

8. Does your office maintain the following categories of survey data for your parcel records/property?

	Yes	No, but will in the next 3 years	No	Don't know
Land characteristics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Building characteristics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assessment neighborhood or zone delineation data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Location influence characteristics derived from GIS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sales data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Income and expense data for various properties	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

9. What types of data do you or your office examine when using GIS to enhance value analysis? (Select the most accurate answer for each type of data listed below.)

	Yes, I use it	No, but others in my office do use it	No, we do not use it	No, and I don't know if others use it
Income and expense data for certain property types	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cost data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land and property characteristics (size, condition, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Sales data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agricultural data (soil rating, crop type, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Demographic data (housing statistics, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data overlays from other government departments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Additional data from open data resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

10. Do you use GIS to conduct spatial modeling (this includes any sort of algorithm or valuation model that incorporates GIS in your valuation process)? (Select the most accurate answer for each task below.)

	Yes	No, but others in my office do	No, and I don't know if others use it
Regression Analysis with location related variables	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spatial Interpolation Models (response surface analysis, kriging, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Calculating and location adjustment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geographically weighted regression	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geostatistics (e.g. cluster analysis, spatial and locational statistics, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Market area identification and creation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

11. Do you or your office create maps or use GIS dashboards (i.e. aggregated data, visualized in maps and charts from multiple sources) to visualize patterns and trends for decision support?

- Yes, I do
- No, I don't
- No, but others in my office do
- No, and I don't know if others use it

## Service to Taxpayers and the Public using GIS

12. Does your office use GIS (within your agency or in conjunction with another agency) to facilitate the display and mapping of data and public information?

- Yes  
 No  
 Don't know

13. Not including the tax parcel or property identification maps, what types of maps does your office provide to the public?

	Yes	No	Don't know
Flood areas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Recent sales	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comparable sales	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Value change over time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Property tax district boundaries	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Property tax dollar allocation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Story map requests or customized maps (narrative and maps together)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Online Interactive GIS tools for taxpayers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

14. Does your agency or government unit have an Open Data site to share data with the public?

- Yes  
 No  
 Do not share data with the public  
 Don't know

15. When there is a natural disaster (flood, fire, tornado, etc.), does the public safety community ask to use your office's data?

- Yes
- No
- Don't know

16. What types of data does the public request most from your office, other than inquiries regarding their specific property?

	Yes	No	Don't know
Recent sales	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Property characteristics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Neighborhood Information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comparable sales analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parcel or property files	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

17. Is your offices parcel/property data online for public access?

- Yes
- No
- No, but it is planned to go online in the next 3 years

18. If you are able, please provide the URL to either the site or web service that provides access to public parcel or property data for your office or government agency.



## GIS Technology Development

19. Is your GIS or mapping system integrated with any of the following land and property tax administration agencies or functions?

	Yes	No	Don't know
Registry or Recorder of Deeds Office	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Treasurer or Collectors Office	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clerks Office	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A higher level of appeal Office	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An existing mass appraisal system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An integrated property tax system of multiple agencies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain

20. Is your office using GIS technologies for any of the listed functions of office operations?

	Yes	No, but will in the next 3 years	No	Don't know
Conducting a large change detection project using desktop GIS tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adding or updating street level imagery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adding or updating aerial imagery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adding a LiDAR layer to the mapping system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adding 3D capabilities to GIS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using cloud and web-based GIS software technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Providing online interactive GIS tools for taxpayers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Creating new location variables for mass appraisal of property	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Piloting new GIS technologies and applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Piloting the use of Open Source GIS software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Initiating further integration of existing mass appraisal software with GIS	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Others, please list and explain