



2017 STATE GOVERNMENT GEOSPATIAL MATURITY ASSESSMENT

The primary purpose of the GMA is to provide NSGIC members, its sponsors, and other partners with a detailed summary of geospatial initiatives, capabilities, and issues within and across state governments.

It is hoped that this information makes it easier to set goals, to identify peer states for collaboration, to identify areas that need additional attention, and to connect with opportunities and supporting resources. Completing the GMA also offers a chance for state's to reflect on their geospatial strategy, operations, and progress made.

Name *

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Organization/Agency Name *

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State *

Colorado

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The information you enter below will be shared during the 2017 annual conference "Roll Call of States" sessions. Please be succinct and pay attention to spelling, grammar and capitalization as your information will be placed on your state's slides.

List your state's top three accomplishments during the past year. *

Server infrastructure refresh, semi-annual data call, LiDAR grant/collaboration

List your state's top three goals for the coming year. *

Support state EOC, Onboard web apps/GIS support for major state agency, Restructure LiDAR distribution app

List your state's top three challenges in the coming year. *

Demand for services exceeding resources, Charge model, Open data policy

Funding for GIS

Describe any significant data development activities, innovative applications, cost saving measures, contracts, etc. that are ongoing or that your state has begun over the past year (if not described above).

Working with state flood mapping agency to update LiDAR data with FEMA funds.

Over the past year, which of following funding sources has your state utilized to help maintain enterprise-level GIS coordination efforts or GIS data development/acquisition?

- Wildlife/Hunting/Fishing tax/fee
- Environmental protection tax/fee
- Federal grant
- Federal partnership (BAA, MOA, contract, etc.)
- 911 tax/fee
- Other telecommunications tax/fee
- Property transfer tax/fee
- Property development tax/fee
- State general fund appropriation
- Cost-recovery fees for geospatial services
- Assessment on state agencies (or state IT internal service fund)
- State enterprise geospatial fund (dedicated/restricted fund)
- Ad-hoc multi-agency partnership funding (state and/or local government, utilities, etc.)
- State fuel or road tax/fee
- Other:

If you indicated that you were using federal grants or other types of federal agreements above, please indicate the federal departments or agencies providing funding assistance.

- Agriculture (USDA)
- Commerce (DOC)
- Defense (DOD)
- Education (ED)
- Energy (DOE)
- Environmental Protection Agency (EPA)
- Federal Communications Commission (FCC)
- Health and Human Services (HHS)
- Housing and Urban Development (HUD)
- Justice (DOJ)
- Labor (DOL)
- State (DOS)
- Interior (DOI)
- National Aeronautics and Space Administration (NASA)
- National Archives and Records Administration (NARA)
- National Science Foundation (NSF)
- Tennessee Valley Authority (TVA)
- National Transportation Safety Board (NTSB)
- Treasury
- Transportation (DOT)
- Veterans Administration (VA)
- Other:

Enter the complete URL for your State GIS Data Clearinghouse website. (Include http:// or https://)

<http://data.colorado.gov>

Enter the complete URL for your State's GIO office website. (Include http:// or https://)

<http://maps.co.gov/confluence>

Enter the complete URL for your state's GIS Council website. (Include http:// or https://)

Provide a very brief description and a complete URL for any GIS-related statutes in your state. These can include establishment of the coordination office, sustained funding sources, public record laws, or other relevant laws.

Rank order the following list of operational issues for their relative impact on your operations. Assign each impact level 1-8 only once. *

| | 1 - Greatest Impact | 2 | 3 | 4 | 5 | 6 | 7 | 8 - Least impact |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Cloud computing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Funding - data acquisition, development (new) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Funding - general operations and coordination | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Funding - IT infrastructure | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| IT infrastructure strategy/consolidation | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Mobile applications | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Open data | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Open source implementations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Geographic Information Officer

This section of the assessment deals only with the activities of the state-level GIO or an equivalent position. In this survey, the GIO or equivalent position will be referred to as GIO regardless of title.

Does your state have a GIO? *

- Yes - official state-level GIO (or equivalent...note this applies to all uses of the term GIO in this survey)
- Yes - official statewide GIS coordinator (not officially called GIO, but authorized to perform statewide coordination work on a full-time basis)
- Yes - generally recognized statewide GIS coordinator (work on a part-time/30% or more basis to improve statewide coordination, but not officially authorized)
- No (Skip to next section.)
- Other:

In which agency is the GIO housed? (Pick the most appropriate answer.)

- Governor's office
- State CIO's office (including state Technology Department if led by CIO)
- Technology department/agency (only if the CIO is not the Technology Department Head)
- Administration/Management department/agency
- State geospatial department/agency/board
- State land management department/agency
- Natural resources department/agency
- Planning department/agency
- Transportation department/agency
- Other department/agency
- Legislature
- Nonprofit organization
- University
- Other:

To whom does the GIO directly report?

- Governor
- Governor's assistant
- State CIO
- Other manager in the CIO's office
- Department head
- Agency or unit head
- Other:

Select the type of authorization that created the GIO/coordination position.

- Executive order
- Statute
- Regulation
- Multi-agency MOU
- Other: Nothing official. The office just did it.

Indicate the number of full-time staff that the GIO directs. (Include contract staff.)

- 0
- 1 to 4
- 5 to 9
- 10 to 14
- 15 to 19
- 20 or more

Estimate the number of full-time staff that Direct or Lead agency or division GIS operations elsewhere in state government (GIS Manager, Director, or GIS Lead)

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Strategic Planning

Does your state have a GIS strategic plan *

- Yes
- No (Skip to the next section.)
- Other: _____

When (year) was the strategic plan last updated?

Indicate your level of agreement with following statements about your state's strategic plan.

| | Strongly agree | Agree | Disagree | Strongly disagree | Not applicable |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Strategic plan is still relevant | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Strategic plan is being implemented | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Strategic plan was developed in collaboration with the stakeholder community | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Enter the complete URL for your state's current strategic plan, if applicable. (Include http:// or https://)

Business Planning

This section deals with your state's business plans. If you answer no to the following question, skip ahead to the next section.

Does your state have one or more GIS business plans? Business plans can deal with a variety of topics, including applying portfolio management, implementing a geospatial clearinghouse, or developing a particular data layer. They are normally (not always) called for in your strategic plan. *

Yes - one business plan

Yes - multiple business plans

No

Other:

Enter the complete URL for your state's current business plan(s).

.....

In your opinion, what are the 3 GIS topic areas for which your state would benefit most from new or refreshed business plans?

.....

Coordination Activities

This section of the assessment deals with GIS council and other coordination activities.

Does your state have a state GIS coordination council? (check all that apply) *

Yes - official, active state GIS council defined/recognized in state STATUTE (law)

Yes - official, active state GIS council per state EXECUTIVE ORDER or ADMIN RULE

Yes - unofficial, but active state GIS council

Yes - we have a 501c nonprofit state GIS user association

No active state GIS council or body

Other:

If you have an official GIS coordination council, please select the type of authorization that created the council.

- Executive order
- Statue
- Regulation
- Other:

Indicate your level of agreement with the following statement: "This stakeholder group actively participates in meetings and activities of the coordination council." If the group is not eligible for membership in the council, indicate not applicable.

| | Regular attendance | Irregular attendance | Does not attend | Not applicable |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| Federal agencies | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| State agencies | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Tribal governments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| County or parish governments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Municipal or township governments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Regional governments | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Academia | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| K-12 schools | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Utilities | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Utility locators (e.g. Miss Utility or 811) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Emergency management community | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Law enforcement community | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| State 911 board (or equivalent PSAP representation) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Transportation dept | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| GIS service providers (business) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| General business | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| General public | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Indicate your level of agreement with the following statements about data sharing.

Strongly agree

Agree

Disagree

Strongly disagree

Not applicable

State statute sets specific expectations or requirements for the sharing of geospatial data

The state has a standardized intergovernmental data sharing agreement in place.

The standardized intergovernmental data sharing agreement is effective.

The state's open records law makes data publicly available (unless expressly restricted) at no cost or at cost of distribution.

The state's open records law allows for the collection of fees for the distribution of GIS data.

The state's open records law allows agencies to copyright their data.

Specific to 2017

In 2014, the National Geospatial-Intelligence Agency (NGA) lost the ability to partner with the states on 133-cities orthoimagery acquisitions. Please describe how the loss of this program has impacted your state.

Describe the involvement of the state GIO or GIS coordinator in your state's efforts to implement Next Generation 9-1-1. Check all that apply.

- No involvement
- Somewhat involved
- Moderately involved
- Deeply involved
- Coordinating with local governments to support NG9-1-1 rollout
- Working on new standards to support NG9-1-1 rollout
- Building and maintaining data to support NG9-1-1 rollout
- Our office has a seat on the state 9-1-1 board or equivalent body
- Our office has a formally defined role or relationship to the state 9-1-1 board or equivalent body
- Other:

Parcel Database

The questions in this section are designed to measure your state's progress toward implementation of a statewide parcel database. You should describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Please do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Definition of parcel database: past, current and future rights and interests in real property including the spatial information necessary to describe geographic extents. Rights and interests are benefits or enjoyment in real property that can be conveyed, transferred, or otherwise allocated to another for economic remuneration. Rights and interests are recorded in land record documents. The spatial information necessary to describe geographic extents include surveys and legal description frameworks such as the public land survey system, as well as parcel-by-parcel surveys and descriptions.

Indicate the level of completion of the parcel data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative statewide parcel database. (Skip to the next section.)
- We are planning to implement an authoritative statewide parcel database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the approximate 2017 funding level for developing and/or maintaining the state-level collection of parcel data layer in dollars, if applicable.

Respond to the following statements about your statewide parcel database. If you indicated you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not applicable |
|--|----------------------------------|----------------------------------|-----------------------|
| A systematic program is in place to collect this data from local government. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is a designated aggregator or steward for this data layer. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping service. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is available in standardized formats or data model. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is based on vector boundaries (polygons) for parcels. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data uses an alternative approach like parcel centroids in lieu of polygon boundaries. | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Assessment-related attribute data are in the public domain (e.g. valuation, land use, etc.) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| Ownership-related attribute data are in the public domain (e.g. names, mailing address etc.) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

If this data layer is 'split' between parcel centroids and parcel polygons, what percentage of the state is available in centroids? (Use numbers only from 0 to 100 for percent completion.)

.....

If this data layer is 'split' between parcel centroids and parcel polygons, what percentage of the state is available in polygons? (Use numbers only from 0 to 100 for percent completion.)

.....

High Resolution Orthoimagery Data

The questions in this section are designed to measure your state's progress toward implementation of a statewide orthoimagery data layer. Describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Do not describe a situation where you have multiple non-authoritative data sets in use to meet the individual needs of different agencies.

Definition of orthoimagery: all jurisdictions (except Alaska) have access to the USDA NAIP orthoimagery. For the purposes of this survey, document only orthoimagery that is collected by state government working in partnership (as appropriate) with federal and local governments.

Indicate the level of completion of the high resolution orthoimagery data layer (< 1 meter pixels) as a percentage. *

- There is no state program for acquiring statewide orthoimagery. (Skip to the next section.)
- We are planning to implement a program to acquire statewide orthoimagery within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the orthoimagery data layers in dollars.

Road Centerline Database

The questions in this section are designed to measure your state's progress toward implementation of a statewide road centerline database. Describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Definition of road centerline database: the portrayal of physical roads and trails that allow the movement of goods and people between locations. These data must include road centerline geometry and basic road attributes (e.g., road names) and will generally include address ranges, LRS control and network topology.

Indicate the level of completion of the road centerline data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative statewide road centerline database. (Skip to the next section.)
- We are planning to implement an authoritative statewide road centerline database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the road centerline data layer in dollars.

Beyond ARNOLD, CO is not doing anything with roads.

Respond to the following statements about your statewide road centerline database. If you indicated that you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not applicable |
|--|-----------------------|-----------------------|-----------------------|
| A systematic program is in place to collect this data from local government | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is a designated steward for this data layer. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping service. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is available in standardized formal or data model. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| State-level address point data exists that complement this data layer. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| A statewide road centerline process serves both State/regional 9-1-1 road needs and USDOT ARNOLD road reporting requirements | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Address Point Database

The questions in this section are designed to measure your state's progress toward implementation of a statewide address point database. Describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Definition of address point database: an authoritative resource that provides accurate address and location (X and Y) information to save lives, reduce costs, and improve service provision for public sector users. These data will generally be collected from local governments and assembled in a statewide file using a common standard. In some cases, the development (origin) of these data will be undertaken by a state government agency.

Indicate the level of completion of the address point data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative statewide address point database. (Skip to the next section.)
- We are planning to implement an authoritative statewide address point database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the address point data layer in dollars.

Respond to the following statements about your statewide address point database. If you indicated that you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not applicable |
|--|----------------------------------|-----------------------|-----------------------|
| A systematic program is in place to collect this data from local government. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is a designated steward for this data layer. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping services. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is available in standardized format or data model. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |

The questions in this section are designed to measure your state's progress toward implementation of a statewide governmental boundaries database. Describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Definition of governmental boundaries: boundaries that delineate geographic areas for uses such as governance and the general provision of services (e.g., states, tribal reservations, counties, cities, towns, etc.) and for administrative or specific purposes (e.g., school districts, fire districts, other taxing or service districts etc.). Boundaries for these various types of geographic areas are either defined through a documented legal description or through criteria and guidelines.

Indicate the level of completion of the governmental boundaries data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative statewide governmental boundaries database. (Skip to the next section.)
- We are planning to implement an authoritative statewide governmental boundaries database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the governmental boundaries data layer in dollars.

Respond to the following statements about your statewide governmental boundaries database. If you indicated that you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not applicable |
|--|----------------------------------|-----------------------|-----------------------|
| A systematic program is in place to collect this data from local government. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is a designated steward for this data layer. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping service. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is available in standardized format or data model. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Hydrography Database

The questions in this section are designed to measure your state's progress toward implementation of a statewide hydrography database. Do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Definition of hydrography database: an authoritative representation of hydrologic features and characteristics, including the classification, location and extent of drainage network features such as rivers, streams, canals, lakes, ponds, coastline, dams and stream gauges.

Indicate the level of completion of the hydrography data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative hydrography database. (Skip to the next section.)
- We are planning to implement an authoritative hydrography database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the hydrography data layer in dollars.

Respond to the following statements about your statewide hydrography database. If you indicated that you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not applicable |
|--|-----------------------|-----------------------|-----------------------|
| A systematic program is in place to collect this data from local government. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is a designated steward for this data layer. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping service. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is available in standardized format or data model. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is submitted to USGS for inclusion in NHD. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Elevation Database

The questions in this section are designed to measure your state's progress toward implementation of a statewide elevation database. Describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Definition of elevation data: the measured vertical position of the earth surface and other landscape or bathmetric features relative to a reference datum typically related to sea level. These points normally describe bare earth positions, but may also describe the top surface of buildings and other objects, vegetation structure, or submerged objects. Elevation data can be stored as a three-dimensional array or as a continuous surface such as a raster, triangulated irregular network, or contours. Elevation data may also be represented in other derivative forms such as slope, aspect, ridge and drainage lines, and shaded relief.

Indicate the level of completion of the elevation data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative statewide elevation database. (Skip to the next section.)
- We are planning to implement an authoritative statewide elevation database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the elevation data layer in dollars.

Respond to the following statements about your statewide elevation database. If you indicated that you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not applicable |
|--|----------------------------------|----------------------------------|-----------------------|
| A systematic program is in place to collect this data from local government. (Skip to the next session.) | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| There is a designated steward for this data layer. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping service. | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |
| This data is available in standardized format or data model. | <input checked="" type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is being developed in partnership with the 3DEP program. | <input type="radio"/> | <input checked="" type="radio"/> | <input type="radio"/> |

Geodetic Control Database

The questions in this section are designed to measure your state's progress toward implementation of a statewide geodetic control database. Describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Geodetic control is typically a function of NOAA's National Geodetic Survey. If your state relies solely on NGS for geodetic control, indicate that there is no state program. If your state enhances the geodetic network, respond accordingly.

Definition of geodetic control: survey control points or other related datasets which are accurately tied to the National Spatial Reference System (the official, common federal system for establishing coordinates for geospatial data that are consistent nationwide). Geodetic control examples include: passive geodetic control marks, active geodetic observing systems, data from global navigation satellite systems (e.g, GPS), gravity measurements, and models of the earth's gravity field (geoid).

Indicate the level of completion of the geodetic control data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative statewide geodetic control database. (Skip to the next section.)
- We are planning to implement an authoritative statewide geodetic control database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the geodetic control data layer in dollars.

Respond to the following statements about your statewide geodetic control database. If you indicated that you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not applicable |
|---|-----------------------|-----------------------|-----------------------|
| A systematic program is in place to collect this data from local government. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is a designated steward for this data layer. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping service. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is available in standardized format or data model. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| A state-operated real-time GPS correction service is available to surveyors and other field workers | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

Buildings and Structures Database

The questions in this section are designed to measure your state's progress toward implementation of a statewide buildings and structures database. Describe your efforts to build an authoritative statewide dataset that meets the majority of business requirements. Do not describe a situation where you have multiple non-authoritative datasets in use to meet the individual needs of different agencies.

Definition of buildings and structures: The spatial representation (location) of real property entities, typically consisting of one or more buildings, structures, site improvements, or underlying land. Complex real property entities ("facilities") are used for a broad spectrum of functions or missions. This theme focused on spatial representation of real property assets only and does not seek to describe special purpose functions of real property such as those found in the cultural resources, transportation or utilities themes.

Indicate the level of completion of the buildings and structures data layer as a percentage. *

- There is no state program for developing or maintaining an authoritative buildings and structures database. (Skip to the next section.)
- We are planning to implement an authoritative statewide buildings and structures database within the next 24 months.
- 1% to 25%
- 26% to 49%
- 50% to 74%
- 75% to 95%
- 96% to 100%

Indicate the 2017 funding level for the buildings and structures data layer in dollars.

Respond to the following statements about your statewide buildings and structures database. If you indicated that you plan to develop this data layer in the next 24 months, answer these questions based on your planned implementation.

| | Yes | No | Not Applicable |
|--|-----------------------|-----------------------|-----------------------|
| A systematic program is in place to collect this data from local government. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| There is a designated steward for this data layer. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is publicly accessible without restriction. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data layer is available on a public web mapping service. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| This data is available in standardized format or data model. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| Address points are associated with this data layer. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |