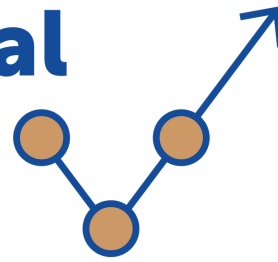# Geospatial Maturity ASSESSMENT

NSGIC 2021

Contact Information (Section 1 of 12)

Name

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Coordination (Section 2 of 12)

A. GIS Program Support

1. Does your state have a GIO? (pick one)

Yes - official statewide GIS coordinator (not officially called GIO, but authorized to perform statewide coordination work on a full-time basis)

2. To whom does the GIO directly report? (pick one)

Other state department or agency head

3. What abilities does the GIO have? (choose all that apply)

- Input to budget and financial matters affecting the state GIS office
- Input over technology used at the state enterprise level
- Control over state-wide GIS data standards
- Coordinate activities across levels of government and within state government
- Influence resides more with the Council than the GIO

B. Support for Coordination

1. What authorization exists for the GIO/coordination position? (pick one)

Multi-agency MOU

2. How is the GIO office funded? (choose all that apply)

- Agency services
- Other (specify)

Please specify:

Geographic Information Council Fee

3. Is the GIO office able to accept "soft" money such as grants, fees for service, etc.? (pick one)

Yes

4. Does the GIO have a full-time professional staff that works on the ongoing programs of the office? (pick one)

Yes

C. Implementation

1. Does your state have a clearinghouse? (pick one)

Yes

2. Does your state have a strategic plan for GIS? (pick one)

Yes, less than 5 years old

3. Does your state have an active GIS coordinating council that meets at least 4 times a year? (pick one)

Yes, an unofficial but active council (could include state user group)

4. Does the council have representation from all relevant stakeholders? (pick one)

Yes

D. URL and Website Information

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

https://gisftp.rfa.sc.gov:8443/webclient/Login.xhtml

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

https://rfa.sc.gov/programs-services/geodetic/statewide-aerial-imagery

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

https://rfa.sc.gov/mapping/sc-gic

Next Generation 9-1-1 (NG9-1-1) (Section 3 of 12)

1. Is there an effort in your state to coordinate the development, normalization, aggregation, and/or distribution of GIS data in support of NG9-1-1? (pick one)

2. Is there a state GIS coordinating body assigned with the responsibility for GIS data readiness for NG9-1-1? (pick one)

3. Is there a relationship between the state GIS office or coordinating body and state 9-1-1 coordinating body? (pick one)

4. Is the development, normalization, aggregation, and/or distribution of GIS datasets required for NG9-1-1 funded? (pick one)

5. Are there processes in place to normalize and aggregate authoritative GIS datasets required for NG9-1-1 to statewide datasets? (pick one)

5a. Is the designated aggregator public or private? (pick one)

5b. Do data sharing agreements exist with authoritative data providers to support statewide data aggregation? (pick one)

Road Centerlines

Site/Structure Address Points

PSAP Boundaries

Service Boundaries (law/fire/EMS)

Provisioning Boundaries

7. Do you have a consistent update cycle for ensuring that the statewide GIS datasets required for NG9-1-1 are as current as possible? (choose all that apply)

-
-
-
-
-

8. Please identify the data comparisons or assessments that you apply to your data: (choose all that apply)

-
-
-
-

Road Centerlines (enter %)

Site/Structure Address Points (enter %)

PSAP Boundaries (enter %)

Service Boundaries - Law Enforcement (enter %)

Service Boundaries - Fire (enter %)

Service Boundaries - EMS (enter %)

10. Which of the following statewide GIS datasets are publicly available? (choose all that apply)

-

11. Are 9-1-1 calls in your state being spatially routed to the PSAP over an ESInet using Next Generation Core Services (NGCS) and the Emergency Call Routing Function (ECRF)? (pick one)

12. Is there any inter-state NG9-1-1 GIS coordination (ex: boundaries alignment)? (pick one)

Elections (Section 4 of 12)

    1. Does your office have a formal relationship (statute, administrative rule, formal agreement for services, or a standing coordination meeting) with your State's Election Director? (pick one)

No

2. Does your state manage or have easy access to an accurate, current statewide voting precinct boundary layer? (pick one) (Please note, that accuracy in this question means two things. First, accuracy indicates that the layer contains all of the most recent precinct boundary polygons. Second, accuracy also means that all the layers of information needed to do any election data management are in the right projection and at the appropriate scale.)

Yes

If so, which statement best describes the precinct boundaries layer? (pick one)

The precinct boundaries are updated, and archived, as changes are made

3. Does your state use and maintain a state or commercial geocoding web service to locate voter addresses and voters? (pick one)

No

4. Does your state have an audit process for precinct assignments within its election database? (pick one)

Yes

If so, is your staff, data, and, and other geospatial resources involved? (pick one)

Yes

Address data creation and maintenance (pick one)

No

District data creation and maintenance (pick one)

Yes

Precinct data creation and maintenance (pick one)

Yes

Civic boundary data creation and maintenance (pick one)

Yes

6. Will the new precinct boundaries be added to your state's clearinghouse after the 2021 redistricting process? (pick one)

Yes

If so, please estimate the date of this upload?

Aug 1, 2022

Address Points (Section 5 of 12)

1. Does your state have a program for developing or maintaining an authoritative statewide address database? (pick one)

Yes

2. What percent of local address-authorities contribute to your state's address point database? (pick one)

90-100%

3. How frequently is this data updated? (pick one)

Annually

4. What is the quality of the state-level data? (pick one)

Published to a standard and is verified via QA

5. How widely available is your address point database? (choose all that apply)

- Available for government use only

6. Is your address point data used to support the following? (choose all that apply)

- Used to support 9-1-1 activities
- Used as reference data for a geocoder web service

7. Identify the characteristics of your address point database. (choose all that apply)

- Local government: There is a formal connection or agreement with local government to roll up and make data available to the state
- Attributes: The state data contains attributes associated with address points; e.g. address including sub-units, land use (e.g. home, park), and nature of point (e.g. parcel centroid, front door of structure, driveway access point)

Cadastre/Parcels (Section 6 of 12)

A. Parcel Data

1. What percentage of your counties have georeferenced digital parcel maps? (pick one)

90-100%

2. Does your state have a program of collecting current digital parcel data from local jurisdictions? (pick one)

Yes

B. Centralized state collection of digital parcel data

1. What percentage of your counties participate? (pick one)

90-100%

2. What standard is maintained for the central database? (pick one)

Published, best effort at standardization

3. How accessible is data from this central database? (choose all that apply)

- Internal use only

4. What are the characteristics of your state parcel program? (choose all that apply)

- Formal relationship: There are formal relationships between the state and local government
- Attributes: The state data includes parcel ID, address, owner name, and other attributes normally associated with parcels and assessment values

Transportation (Section 7 of 12)

1. How complete is your state's road centerline database? (pick one)

86-99%

2. How frequently is this data updated? (pick one)

Annually

3. What is the quality of the state-level data? (pick one)

Published to an approved state or national standard but not edgematched

4. How accessible is your road centerline database? (pick one)

Not available or no request process

5. Identify the characteristics of your road centerline database. (choose all that apply)

- Steward: There is a designated aggregator or steward for this data layer
- Funding: This program does have regular state-level funding
- Local government: A formal connection or agreement exists with local government to roll up and make data available to the state
- Attributes: The state data does contain attributes associated with road centerlines (e.g. lanes, speeds, address ranges)

Orthoimagery (Section 9 of 12)

A. Leaf-On

1. How much of your state is covered by leaf-on orthoimagery? (pick one)

<80%

2. Please indicate its update frequency. (pick one)

No coverage

4. Please indicate its accessibility. (pick one)

Not accessible

5. Identify the characteristics of your leaf-on orthoimagery database. (choose all that apply)

- None apply

B. Leaf-Off

1. How much of your state is covered by leaf-off orthoimagery? (pick one)

90-100%

2. Please indicate its update frequency. (pick one)

Every 2-3 years

3. Please indicate if you opt for any additional options. (choose all that apply)

- 6-inch product or better

4. Please indicate its accessibility. (pick one)

Available as a service to multiple or all entities (service available in app, data repository, only viewable)

5. Does your program collect more than the three R-G-B bands of data? (pick one)

Yes (Specify)

Please specify:

Near Infrared

6. Identify the characteristics of your orthoimagery database. (choose all that apply)

- Steward. There is a designated aggregator or steward for this data layer
- Funding. This program has regular state-level funding
- Business plan. A business plan exists for this theme
- Local government. There are some formal connections with the local government on buy-ups
- Accessibility: The data are freely available to the public as a service

Governmental Units (Section 10 of 12)

1. Does your state have >75% unincorporated areas (as measured by the number of county subdivisions, not by land mass)? (pick one)

Yes

2. Of your incorporated areas, what percentage have reliable boundaries? (pick one)

76-99%

3. Does your state have an authoritative source for boundary data? (pick one)

Yes, in statute

4. What is the update frequency of the data? (pick one)

Updated as changes occur

5. How are the data published? (pick one)

Data published with no standard

6. Are the data publicly available? (pick one)

Downloadable

7. Identify the characteristics of your governmental boundaries activities. (choose all that apply)

- Steward. There is a designated aggregator or steward for this data layer
- Business plan. A business plan exists for this theme
- Local government: There is a formal connection to local government

Geodetic Control (Section 11 of 12)

1. Does your state have any program activities focused on geodetic control? (pick one)

Yes

2. Is your state included in the Public Land Survey System (PLSS)? (pick one)

Yes

3. What specific program activities exist? (choose all that apply)

- Nominate new control points to NSRS
- Support a statewide CORS network (possibly through private partners)
- Support a statewide RTN network (possibly through private partners)
- Program for performing GPS on Benchmarks
- Works with counties to tie their survey corners to NSRS

4. What are the details of your state efforts? (choose all that apply)

- Steward: There is a designated state steward
- Funding: There is a regular funding for the state program
- Current Business Plan: The state has a current geodetic control business plan that is less than three years old
- Business Process: The state has a geodetic control data business process
- Relationship: There is an established working relationship between the state and tribal – local governments
- Relationship: There is an established working relationship between the state and the professional surveying community

5. How is your state preparing for NGS's 2022 vertical datum and terrestrial reference frames update? (NSRS Modernization)

- It's on our "To Do" list

Elevation (Section 12 of 12)

1. Indicate the level of completion of the elevation data layer as a percentage. (pick one)

90-100%

2. What is the frequency of the updates? (pick one)

12 years or greater

3. What standards are used for publishing state-collected data? (pick one)

Published to a standard (verified via QA)

4. What is the quality level of the elevation database? (pick one)

Quality Level 2 (QL2) or better as defined by USGS

5. Do you have any data within your state that is a better Quality Level than is stated in the previous question? (pick one)

Yes

6. How accessible is your elevation database? (pick one)

Open, free, downloadable

7. What are the details of your state efforts? (choose all that apply)

- None apply

8. How does your state use elevation data? (choose all that apply)
- Engineering (Transportation/Construction Planning)
- Drainage and Stormwater modeling
- Flood impact studies
- Watershed and Wetland delineation
- Hazard Prediction - landslide evaluation
- Habitat and vegetation studies