

# DRAFT CHARTER

## ***Working Group for Building Footprints*** **of the Statewide Mapping Advisory Committee**

The ***Working Group for Building Footprints*** is a committee of the Statewide Mapping Advisory Committee (SMAC), which operates under the authority of the North Carolina Geographic Information Coordinating Council (the Council). The committee is not a permanent standing committee of the SMAC, but rather an *ad-hoc* working group that may be dissolved when it completes its assigned tasks.

### **Purpose**

The purpose of the Working Group for Building Footprints is to develop and recommend a solution for standards, stewardship, and comprehensive, efficient, and timely maintenance of a statewide geospatial representation of all building footprints in North Carolina.

### **Background**

Between 2009 and 2012, North Carolina Emergency Management (NCEM) mapped statewide building footprints from orthophotography and attributed them with flood, wind, and other risk data. The data was leveraged with great success for damage assessment and emergency response and began to be used by many other agencies. NCEM relies upon the building footprint data to provide damage estimates to support expedited federal disaster declarations, but this invaluable dataset has no maintenance plan or recurring funding to support updates. The original project was developed entirely within the context of risk management, lacking outside stakeholder requirement contributions common to most other similar framework datasets. Prior to update, it should be reviewed to ensure that the final product reflects all stakeholder needs. For instance, a 2021 CGIA state government needs assessment revealed that the addition of address attributes would benefit many stakeholders, including NCEM.

The original dataset development was labor intensive, but since that time, new data sources and methods such as classified LiDAR and machine learning have emerged and have the potential to reduce the cost of maintenance. The Working Group for Building Footprints will research technical solutions for maintenance, define a data steward, and outline specifications that meet the common needs of all stakeholders.

### **Working Group Tasks**

To develop a recommended solution for maintenance of a statewide dataset for building footprints, the working group will do the following:

- Review the completeness of geometry and attributes in the existing building footprint layer.
- Research federal or industry standards for building footprint attribution.
- Define specifications and attributes that meet stakeholder needs.
- Research methods and data sources for cost effective, accurate updates.

- Identify a practical workflow to ensure complete, current, reliable geospatial representation of building footprints with standardized attributes.
- Define a recommended solution.
- Summarize the business case for the recommended solution.
- Prepare a report with the findings and recommendation to submit to the SMAC.

### **Appointment of the Chair**

The Chair of the working group will be appointed by the Chair of the SMAC in consultation with the Chair of the Council.

### **Working Group Membership**

The working group may include SMAC members and subject matter experts who volunteer to contribute. The chair may add additional members. Organizations and positions to be represented may include:

Department of Public Safety, Floodplain Mapping Program and Office of Recovery and Resiliency  
Broadband Infrastructure Office  
Department of Administration, State Property Office  
Department of the Secretary of State, Land Records Management Program  
Board of Elections  
Department of Insurance  
Department of Transportation, GIS Unit  
Department of Revenue, Local Government Division  
Local government representatives from the Local Government Committee and/or the Statewide Mapping Advisory Committee  
North Carolina League of Municipalities  
North Carolina Association of County Commissioners  
Center for Geographic Information and Analysis

**Approved by the Statewide Mapping Advisory Committee, DATE**