# Emergency Communication Networks Division of Department of Public Safety

Geospatial Development for NG9-1-1 Project Brief

## History

- Modern communication devices with voice, text, and video capabilities now serve as important communication tools that require access to emergency services. The current Enhanced 9-1-1 network and infrastructure does not adequately support these types of modern devices.
- Next Generation 9-1-1 (NG9-1-1) is a significant evolution of 9-1-1 systems and services that will support advanced communication technology through seamless interconnectivity between citizens, Public Safety Answering Points (PSAP) and First Responders.

## Facts

- The primary purpose of the Geospatial Development for NG9-1-1 Project is to develop a set of standards-based, statewide GIS data required to support NG9-1-1 systems in Minnesota.
- NG9-1-1 depends on current and highly accurate Geographic Information Systems (GIS) data to accurately identify the location of callers, properly route calls to the appropriate PSAP, and dispatch the correct emergency responders.
- NG9-1-1 uses GIS data provided by local GIS agencies (City, County, and Tribal) as the core database for civic location validation, call routing, and PSAP map display functionality. Local address authorities play a critical role in assigning addresses and street names that will be incorporated into those GIS datasets.
- Successful completion of this project will require significant participation by all PSAPs and their local GIS sources, as well as coordinated engagement with the State of MN Geospatial Office (MnGeo).
- The ultimate purpose of the Geospatial Development for NG9-1-1 Project is to develop the recurring processes and procedures necessary to maintain the statewide NG9-1-1 GIS datasets. The current statewide standards development and data preparation phases are scheduled to be completed by the end of 2018.

## Impacts

- Improved quality of emergency services to citizens and visitors of Minnesota
    - 9-1-1 calls will be routed to the proper PSAP based on the location of the calling device
    - Improved response times by first responders – potentially saving lives
    - The location of any device capable of calling 9-1-1 is validated prior to calling 9-1-1
    - Multi-jurisdictional (state, county and community) coverage for dispatchers and first responders
    - Assists with disaster preparedness and damage assessment
    - Improved map data accuracy, reporting, and situational awareness
- Ability to create and maintain a high quality master set of statewide GIS data layers to share with many local, regional and state entities.

## Things to consider

- Local GIS sources will be asked to share their updated GIS data on a routine, ongoing basis.
- GIS data validation reports will be generated and distributed to each GIS source whenever they submit data. PSAPs and their local GIS sources will be responsible for fixing any mandatory corrections.

## Contact

Norman Anderson, Project Manager, MNIT and DPS
norm.anderson@state.mn.us
(651) 201-2483 (MnGeo)
(651) 201-7559 (ECN)