

## Next Generation 911 (NG911)

### Background

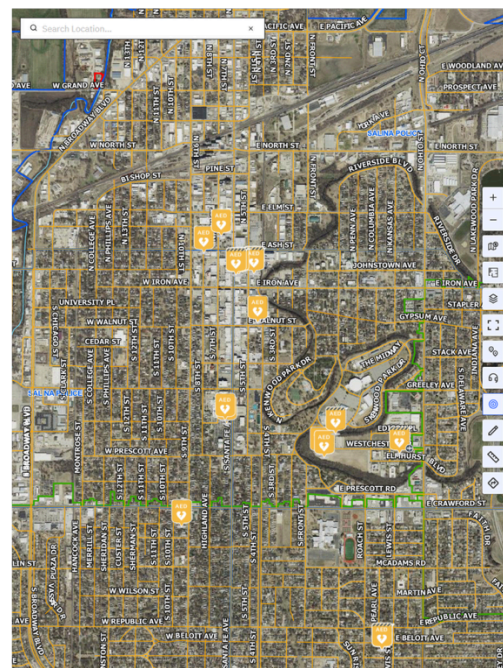
Next Generation (NG911) is modernizing legacy 911 systems across the nation, aligning with current technology to improve operations and response. A key component of NG911 involves replacing analog telephone networks, primarily designed for voice communications, with Internet Protocol (IP) networks capable of consuming, integrating, and distributing a variety of multimedia communications,



including voice, text, photos, and videos. Additionally, NG911 systems facilitate communication and coordination between different agencies and systems, improving overall emergency response. With a modern technical architecture at its core, NG911 systems deliver improved connectivity, resiliency, redundancy, and cybersecurity.

### Geographic Information Systems and NG911

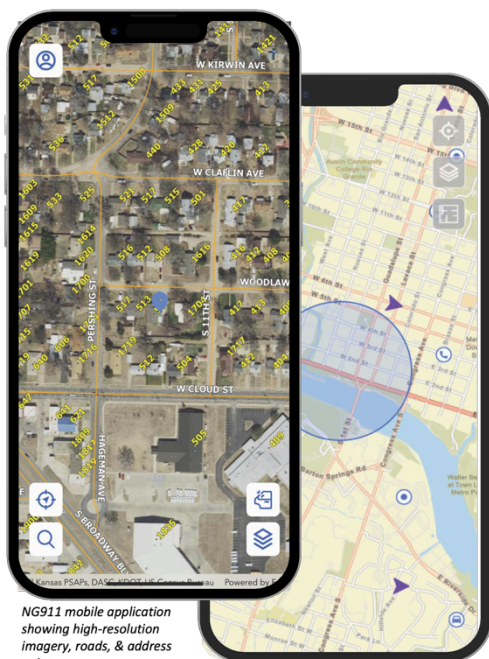
While a key component of NG911 is the modernization of the underlying network, Geographic Information Systems (GIS) also play a critical role. Authoritative geographic databases, including address points, road centerlines, emergency service boundaries, and Public Safety Answering Point (PSAP) boundaries support key functional elements of an NG911 system - from routing a 911 call to providing critical geographic awareness to 911 communication professionals, law enforcement, and emergency responders. These layers require local government involvement and are often developed and maintained at that level before being aggregated or “rolled-up” to regional or statewide extents. Effectively, *GIS is the fuel in the NG911 engine*, and therefore, has been a catalyst to many GIS programs around the nation. For example, NG911 programs develop and maintain a majority of the data contributed to the National Address Database (NAD). Ongoing support and maintenance of these critical GIS databases is critical to providing effective NG911 services.



NG911 Call Handling Map showing high-resolution imagery, local government road data, Emergency Service Boundaries (ESB), and Automated External Defibrillator (AED) locations.

## We respectfully ask you to:

- Appropriate \$3 – 5 billion as an initial investment in NG9-1-1. The key to an effective grant program which robustly supports NG911 implementation and ongoing maintenance is sustainable funding. Spectrum auctions administered by the FCC were an effective means; however, recent experience has shown that those proceeds are not reliable or sustainable.
- Support for the National NG911 Program at the National Highway Traffic Safety Association (NHTSA)



NG911 mobile application showing high-resolution imagery, roads, & address points

NG911 mobile application showing basemap features, caller location, and officer locations

## About the National States Geographic Information Council (NSGIC)

Since 1991, NSGIC has been the state led hub of national geospatial experts promoting coordinated, impactful, and efficient application of geographic Information systems (GIS) to best serve the nation. GIS and spatial information serve to underpin much of the activities of government and the lives of the people of the nation.