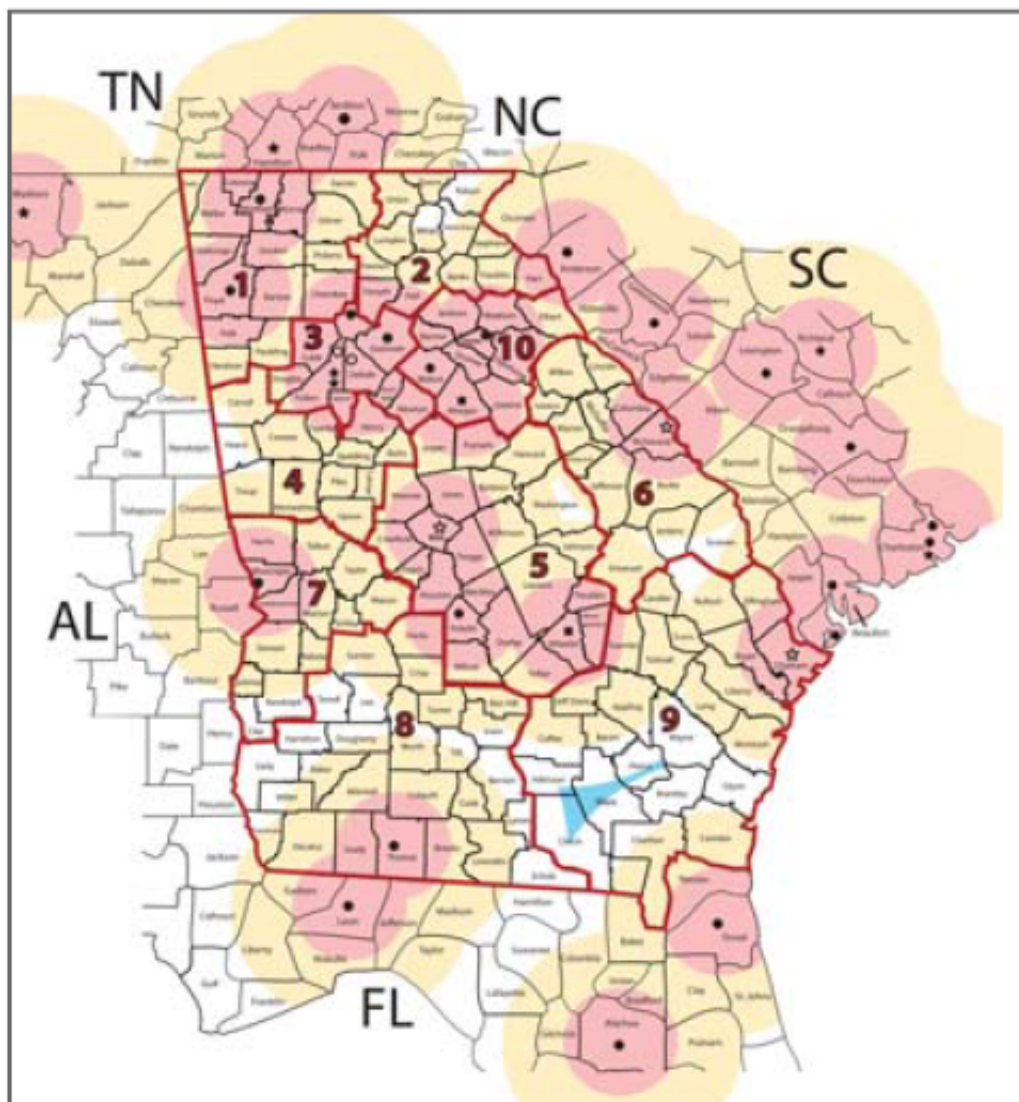

Georgia Trauma Care Network Commission

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Trauma is the leading cause of death in the United States, accounting formore than 160,000 fatalities each year and has been the leading cause ofdeath among

children for decades. The first 60 minutes after a trauma are known as the “critical hour”; for providing care.

BUSINESS CHALLENGE

The Georgia Trauma Care Network Commission (GTCNC) was established in 2007 to address the insufficient number of trauma centers in Georgia and the lack of an organized and coordinated trauma system. The Georgia trauma system is under development and will be comprised of integrated regional systems and plans and a centralized state-wide Trauma Communications Center (TCC) as a core component. The TCC will coordinate trauma system activities by maintaining and providing information on trauma centers’ status and, when appropriate, on pre-hospital capabilities. This information will be used to ensure that patients meeting Trauma System Entry Criteria (TSEC) will have access to definitive trauma care at an appropriate level of state-designated trauma center. A regionalized system approach to organizing emergency care and hospital services will also benefit disaster/terror preparedness, better manage emergency cardiac, stroke and surgery cases, and emergency patient flow to and from all hospitals within Georgia’s healthcare safety net.

“GTCNC needed to create a new public service that would assure anyone seriously injured anywhere in the state would be transported quickly to a trauma center fully capable of providing the treatment necessary to save their life and enable their best possible recovery,” said Dennis W. Ashley, M.D., Chair, Georgia Trauma Care Network Commission.

GTCNC contracted the Georgia Tech Research Institute (GTRI), a highly regarded applied research and development organization solving some of the toughest problems facing government and industry across the nation and around the globe, to assist in the development of a state-of-the-art trauma communications system for Georgia.

SIERRA WIRELESS IN MOTION SOLUTION

The GTCNC, the Georgia Emergency Management Agency/Homeland Security (GEMA/HS) and GTRI created the Georgia EMS AVL System, a state-wide system to provide a display of ambulance positions and to assist the Georgia TCC to advise EMS agencies and hospitals of the closest appropriate designated trauma center to transport or transfer trauma system patients. This system would also be a significant asset to state emergency management in a Mass Casualty Incident (MCI).

One of the goals of the program is to deploy an Automatic Vehicle Location System

(AVLS) to a majority of primary 911 Zone Providers across the state, in order to provide the people in Georgia with a powerful trauma communications center and mass casualty incident management asset.

After a competitive procurement process, GTRI selected an InMotion Solution for the state-wide GPS-based AVLS.

In Georgia, vehicle location information is also fed to the GEMA/HS State Operations Center and other command centers for state-wide coordination of EMS resources. Each ambulance has been equipped with a Garmin personal navigation device (PND) and ambulance dispatches can be accepted via the PND. In addition, the PNDs have been customized to enable two-way messaging so that medics can send preliminary information back to dispatch centers.

The oMM provides each EMS agency with the ability to analyze information from Gateways in the field via a single, powerful management platform enabling agency personnel to centrally monitor ambulance locations, and monitors vehicle diagnostics, devices and networks.

THE RESULTS: TESTED, TRUSTED AND PROVEN

During the first phase of this deployment in August 2010, the GTCNC piloted and purchased 200 oMGs for 27 individual EMS agencies in central Georgia. The oMGs also had to work with the GEMA/HS Geographic Tool for Visualization & Collaboration (GTVC), a geographic information system used for managing resources during responses to emergencies and homeland security incidents.

In the second and third phases of this contract, GEMA/HS secured federal grant funds to deploy an additional 350 oMGs to a further 48 Georgia EMS agencies, bringing the state-wide total to 550 vehicles across 75 separate EMS agencies. The InMotion Solution enables improved resource deployment, vehicle management, dispatch, messaging and operations for each EMS agency and provides GEMA/HS designated command centers with a clearer picture of EMS operations for emergency response.

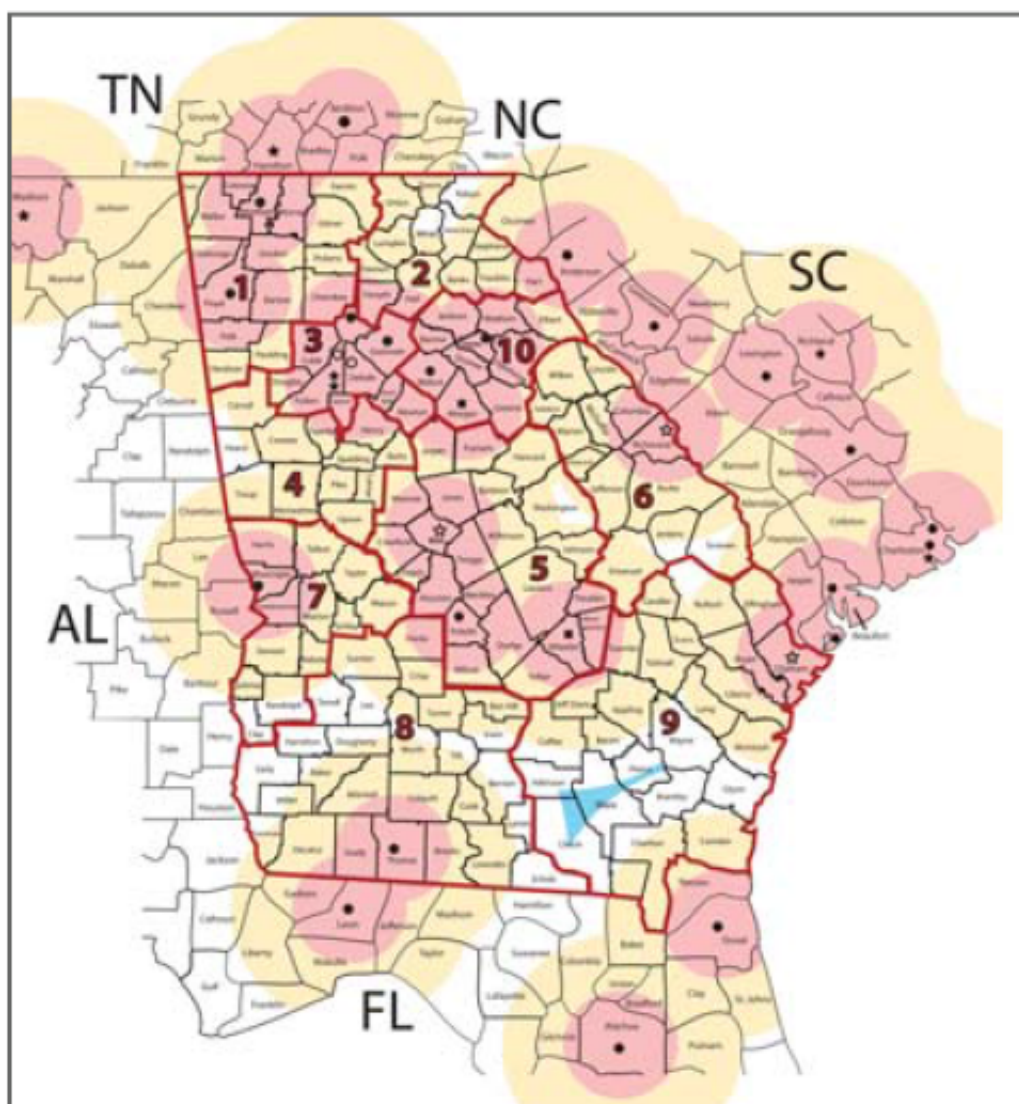
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In the future, the telecommunications platform provided under the AVLS program offers the potential to extend the capabilities of the hospital's emergency care center to the injury scene to improve triage, stabilization and transfer/transport of all emergency care patients. Emergency cardiac and stroke cases can be more efficiently addressed with early analysis of ECGs, video and patient care records by

cardiologists and catheterization labs. The fourth phase of the program added 200 oMGs across another 10-12 individual EMS agencies.

For individual EMS agencies, having a future-proof communications platform enables them to simply and cost-effectively deploy new applications that support their mission, and offers them opportunities to add additional features and functionality such as:

- Monitor the location and temperature of on-board medications.
- Track expensive mobile assets (e.g. stretchers and 12-lead EKG monitors).
- Improve driver behaviour and insurance costs.
- Reduce fuel costs.
- Improve vehicle life expectancy and unit hours with proactive maintenance.



BENEFITS IMPROVED RESPONSES:

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- ECGs can be sent to the hospital with the press of one button, without a cell phone, PDA or external modem to reduce door-to-balloon times.
 - EPCR can be sent with confidence that records are transmitted from any location.
 - Video connections can be set up for a telemedicine consultation with a specialist from a patient's home or the road.
 - Connectivity is maintained in rural areas.

LOWER COSTS:

- Patients can be tracked in a disaster situation.
- Communications consolidated over a single network for reduced mobile data communications costs.

IMPROVE OPERATIONS:

- Billing time and billing staff reduced.
- Emergency preparedness plans, drug databases, training materials, etc. can be accessed.
- Operations have detailed incident scene information (e.g. video).