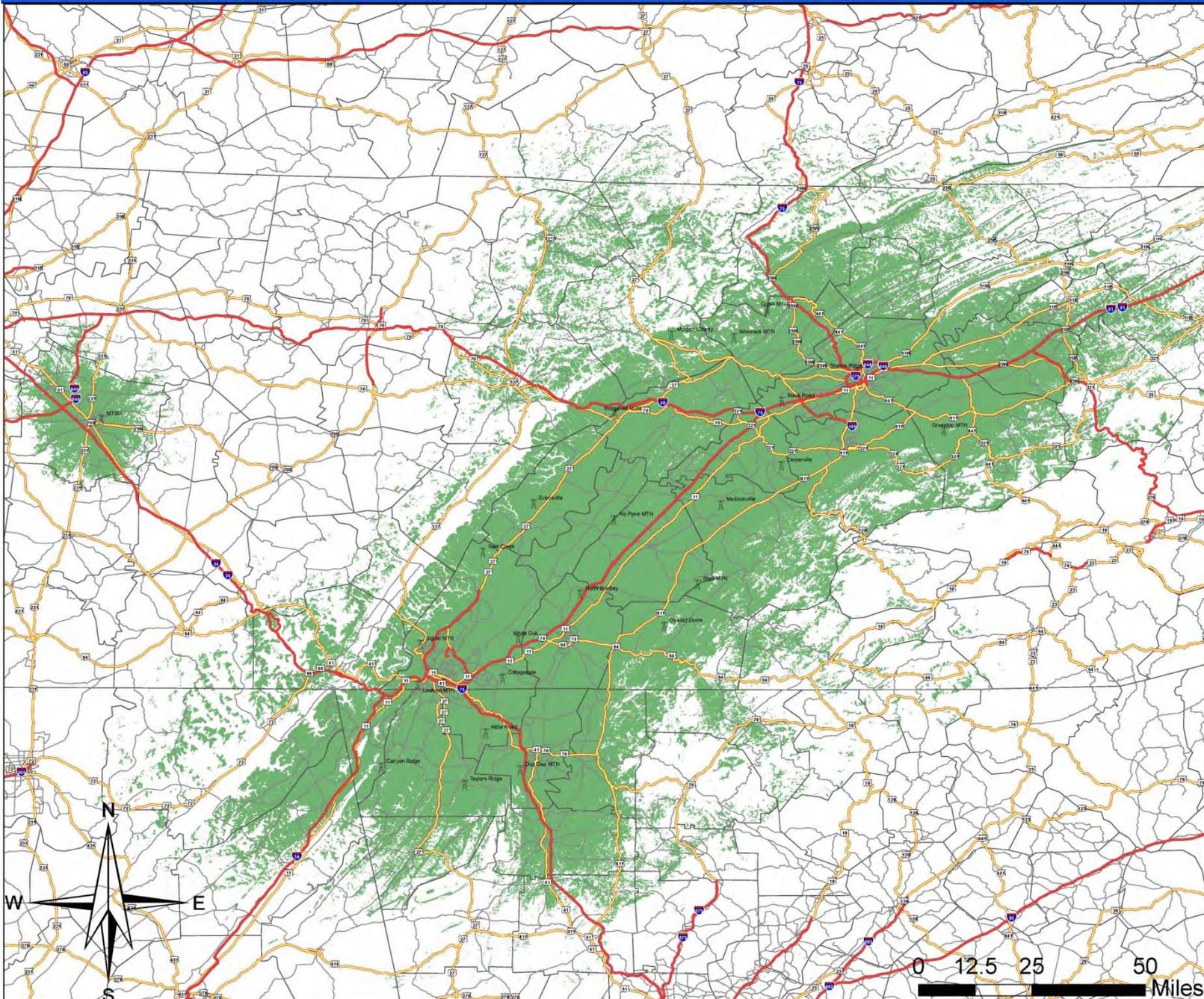


Info Map: Entire System Unbounded; 95% Area TDOC, TVRS, NWGA, & MTSU. XTL5000 Mobile



Legend

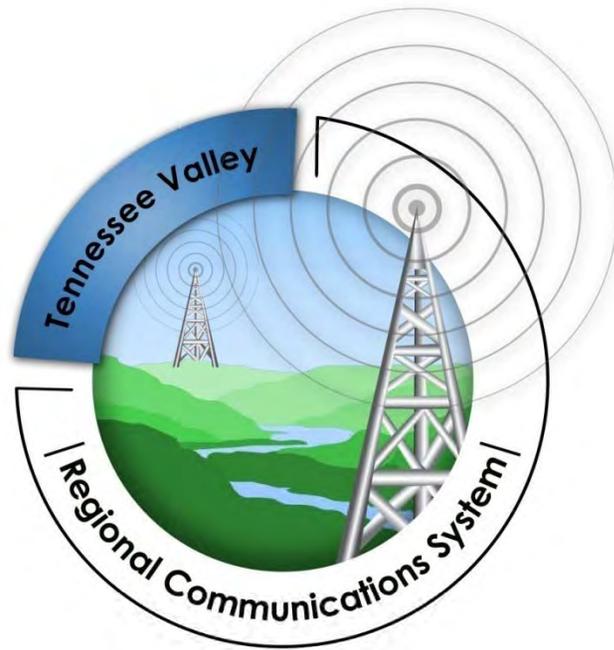
-  System RF Sites
- Major Roads**
- Road Classification**
-  Limited Access
-  Highways
-  Secondary Roads
-  Other
-  Highway Ramp
-  Counties
-  95% 35W Mobile

For Information

Info Map: TVRS 95% Mobile
 Drawn: C04223
 Date: 05/11/2010
 Scale: 1:671,000
 HYN: System Unbounded
 ALL TVRS, NWGA, MTSU

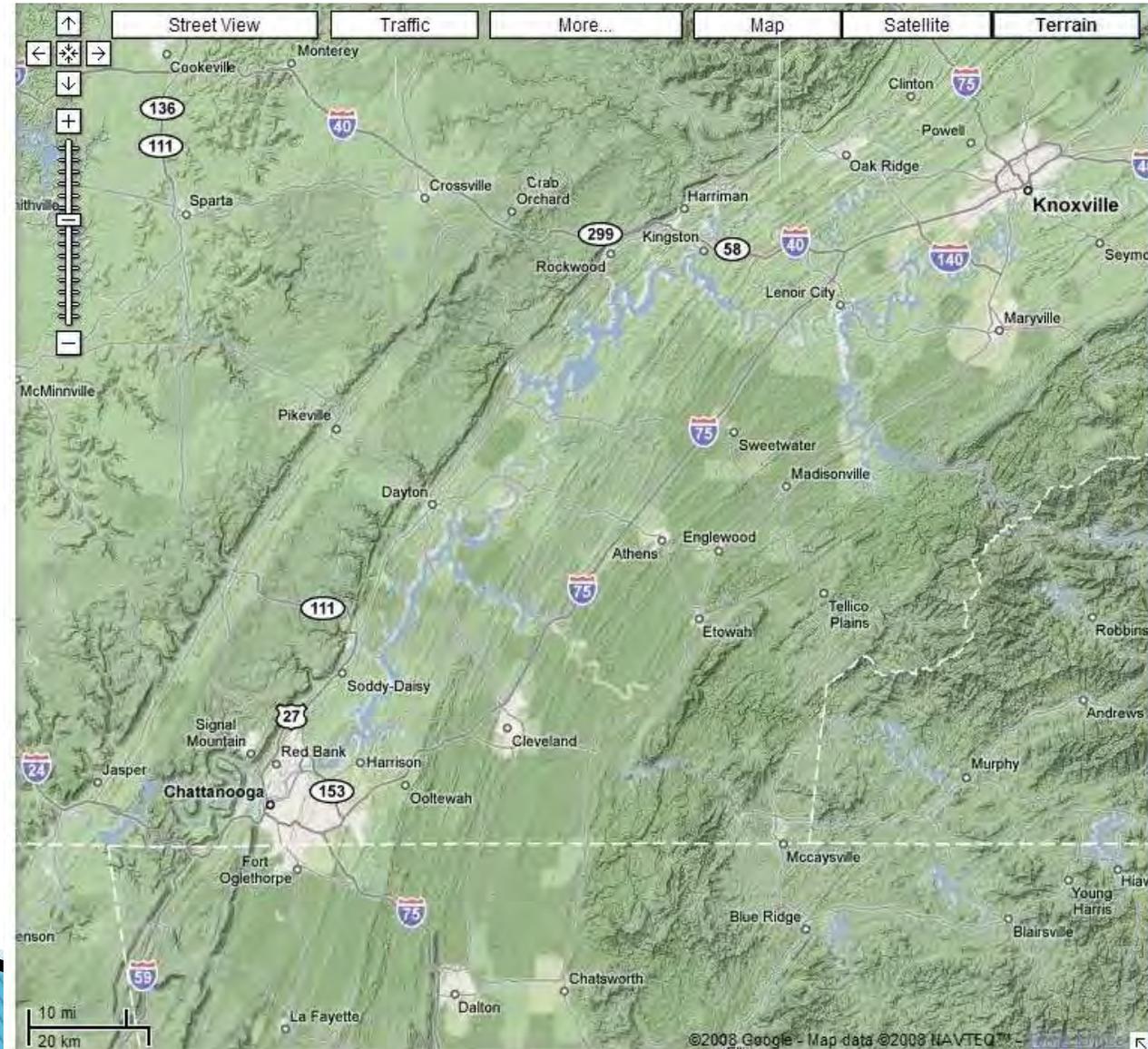


Site Coverage Prediction
 The predicted coverage area
 at a Delivered Audio Quality
 TIA / TS



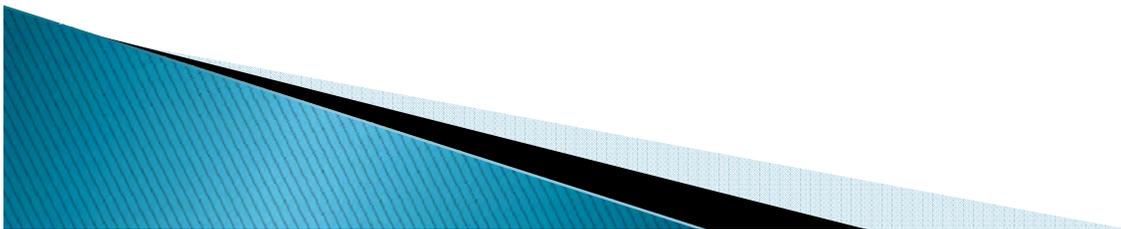
One Vision, One Response for Tennessee Valley First Responders

The Geography



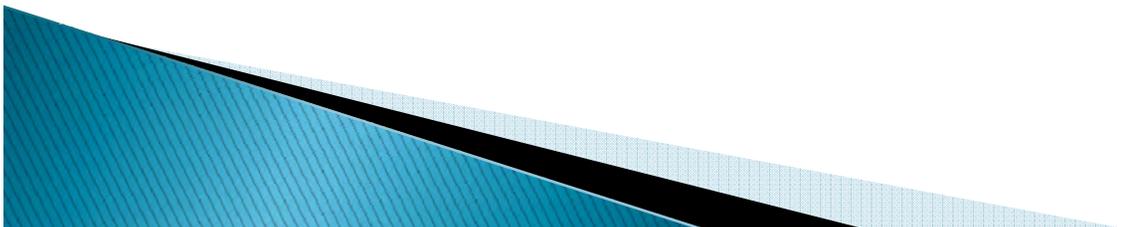
The Demographics

- ▶ Population of the twelve County region – 1,272,231
- ▶ Area in Square Miles – 4030.86



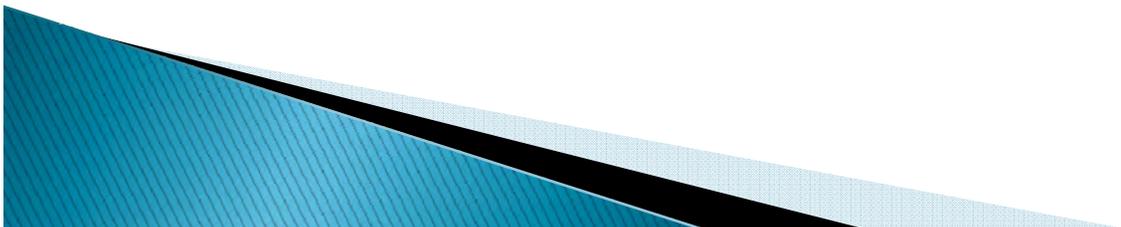
The Risks

- ▶ Two TVA Fixed Nuclear Facility Power Plants
 - Sequoyah Nuclear Plant – Hamilton County
 - Watts Bar Nuclear Plant – Rhea County
- ▶ Oak Ridge National Labs
 - Nuclear Research Facility
 - Y-12 Facility
 - ????
- ▶ Numerous Hazardous Material Manufacture Facilities
- ▶ Interstate Infrastructure that is a main thorough fare for North and South.



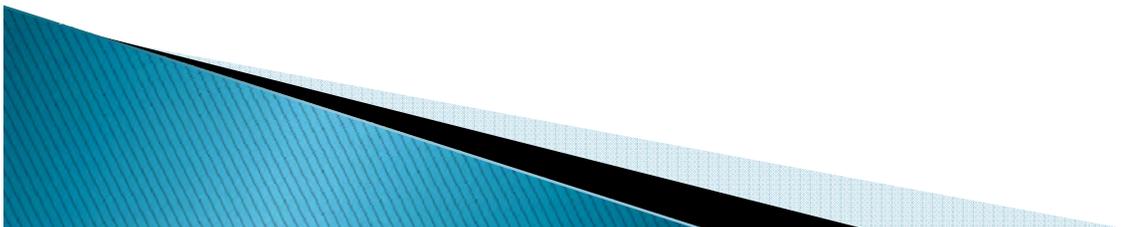
The Communications Issues

- ▶ Operability
- ▶ Interoperability
- ▶ Narrowbanding Mandate – January 1, 2013
only one budget cycle left to prepare for
converting all VHF and UHF systems to
narrowband.



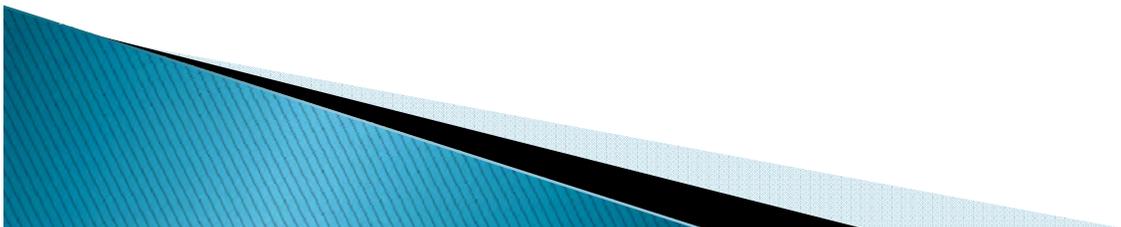
First Responders Communications Background

- ▶ Disparate Communications systems – VHF Low Band, VHF High Band, UHF, and 800 MHz Trunking.



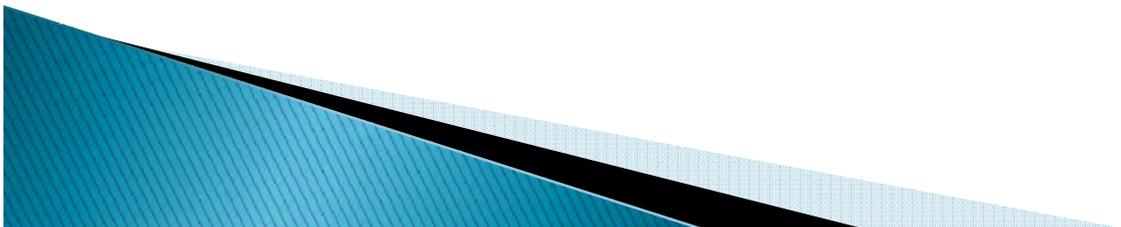
Chattanooga, Hamilton, Catoosa County's Current Regional System

- ▶ In 1995 the City of Chattanooga installed the first 800 MHz Public Safety Trunked radio system in the area.
- ▶ By 1999 all Local Governments in Hamilton County was operable on the 800 MHz trunked system.
- ▶ 2007 Catoosa County GA migrated to the 800 MHz trunked system for all emergency services in Catoosa County.



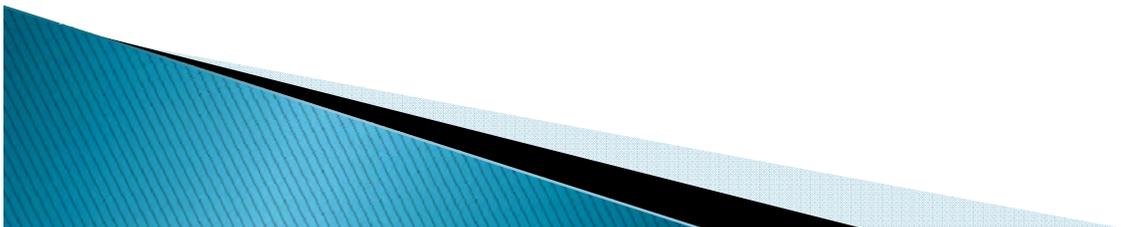
Chattanooga, Hamilton, Catoosa County's Current Regional System

- ▶ Throughout the process of building our current system we found that by working together we could have a better communications system at a more reasonable cost.
- ▶ All maintenance and management of the system is handled by City of Chattanooga employees.



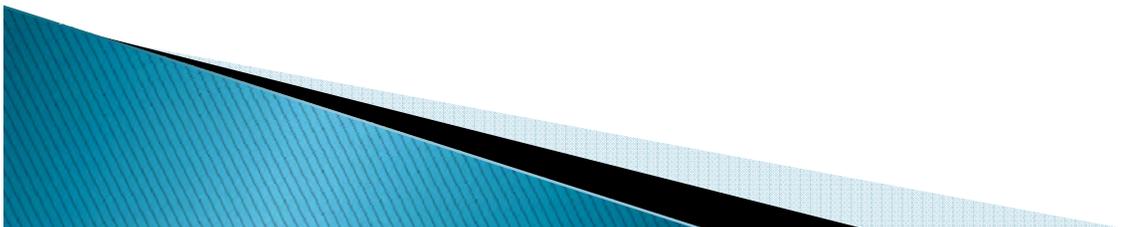
Tennessee Valley Regional Communications System PSIC Proposal

- ▶ To Provide a Seamless Interoperable Communications system from North GA to Knoxville. Focusing on a nine county region surrounding the TVA nuclear facilities and the DOE facility in Oak Ridge
- ▶ Leverage current 800 MHz Trunking systems in the region.



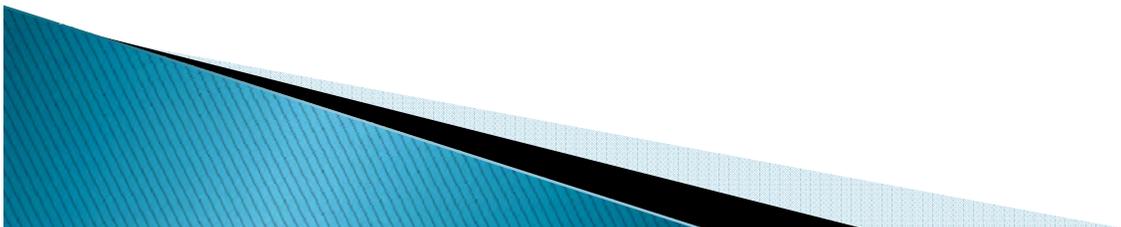
The Stakeholders

- ▶ State of Tennessee
- ▶ City of Chattanooga TN
- ▶ Hamilton County TN
- ▶ Rhea County TN
- ▶ Meigs County TN
- ▶ Bradley County TN
- ▶ McMinn County TN
- ▶ Roane County TN
- ▶ Loudon County TN
- ▶ Anderson County TN
- ▶ Knox County TN
- ▶ Catoosa County GA
- ▶ Walker County GA
- ▶ Dade County GA



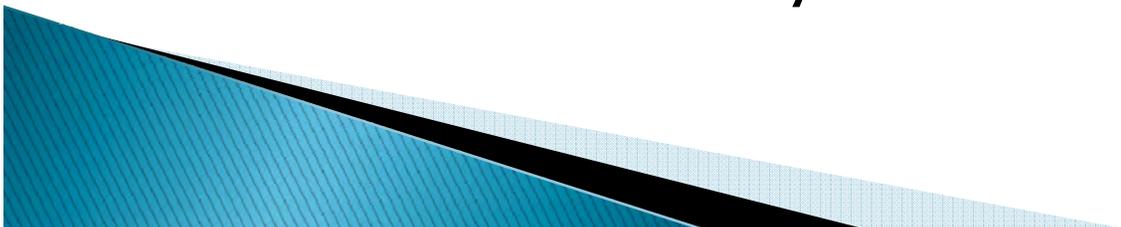
The Governance

- ▶ During the application process meetings were held throughout the region. We retained an Attorney for the purpose of guiding us through the process of setting up a Governance structure. Through an Interlocal Agreement an Advisory Committee was made up of one person from each of the counties in TN and GA and one person from the City of Chattanooga. An Executive Commission was made up of the original three agencies and two representatives elected by the Advisory Committee.



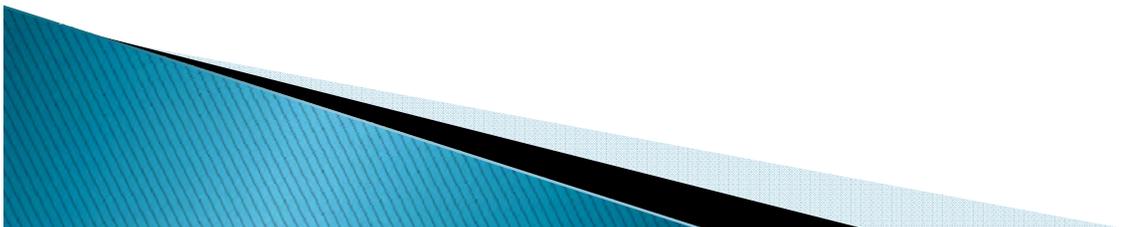
The Governance

- ▶ All meetings will be governed by the Tennessee Open Meetings law.
- ▶ Bylaws were enacted with the offices of Chairman, Vice Chairman and Secretary being established.
- ▶ The Advisory Committee and the Executive Commission meet monthly to transact the business of the system.



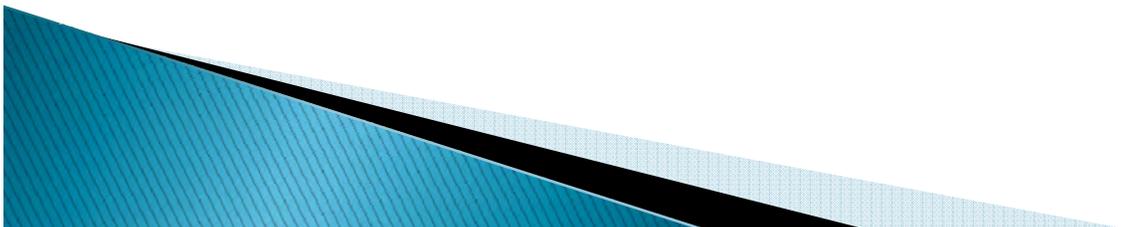
The Governance

- ▶ Each county has the full authority concerning the operation of Communications within their county. The Advisory Committee or the Executive Commission does not mandate or approve how a Partner County manages their own communications so long as they do not cause harm to the system and they are abiding by FCC rules. This retains all the controls to the local level.



The System

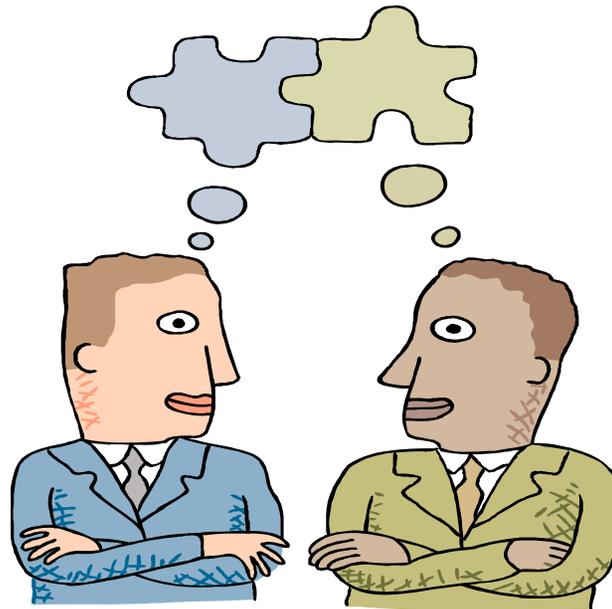
- ▶ APCO Project 25 Standards Based Integrated Voice and Data IP Communications System manufactured by Motorola. Utilizing the current Chattanooga/Hamilton County 800 MHz Regional Trunking System as a hub.
- ▶ It is composed of our current 15 channel analog/digital simulcast cell, one ten channel digital simulcast cell covering Chattanooga, TN, one ten channel digital simulcast cell covering NW, GA, and sixteen five channel IR sites covering the other areas.
- ▶ The system is controlled by two Master Sites one located in Chattanooga TN the other in Nashville TN owned by the Tennessee Department of Corrections.



How did PSIC benefit the Tennessee Valley?

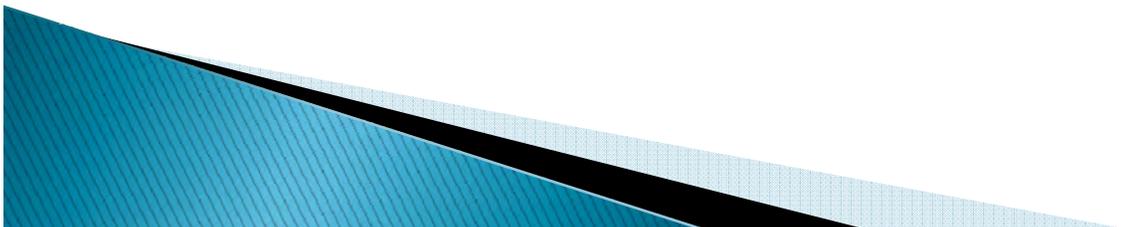
- ▶ It was the catalyst for the most basic form of communication within the region.

Face
To
Face



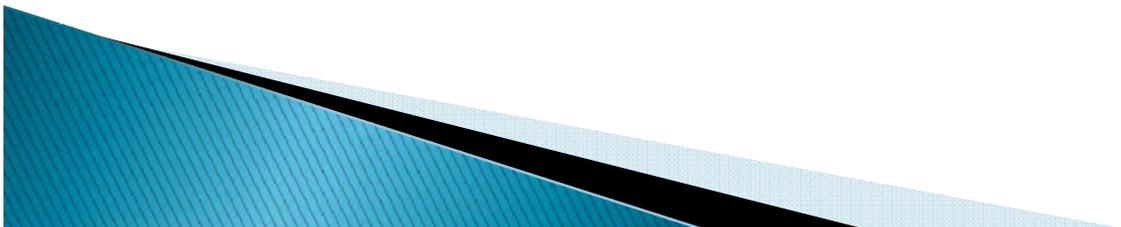
How did PSIC benefit the Tennessee Valley?

- Emergency responders from around the region have come together to discuss protocols and procedures.
- We have always worked well together with our neighboring jurisdictions, but now we have entire regions coming together.
- We began to think more outside the box (our jurisdictions) and those boundaries disappeared.

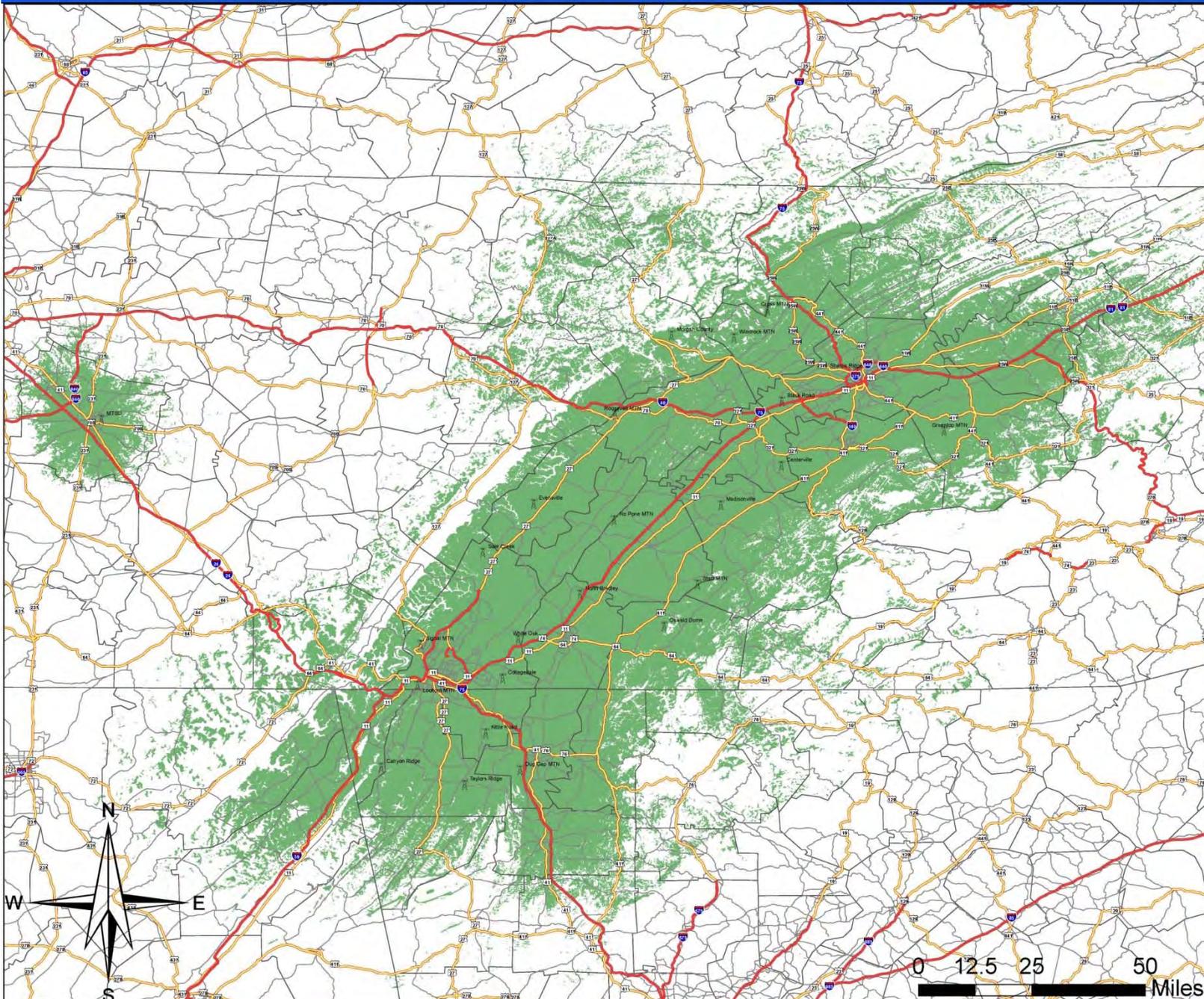


How did PSIC benefit the Tennessee Valley?

- ▶ It provided the funds to install a communications system in our region that none of us could have afforded on our own.
- ▶ It provided a common denominator for the region to come together and showed us that we can accomplish more by working together than trying going at it alone.



Info Map: Entire System Unbounded; 95% Area TDOC, TVRS, NWGA, & MTSU. XTL5000 Mobile



Legend

-  System RF Sites
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Contact Information

- ▶ Major Gary Sisk
- ▶ Catoosa County Sheriff's Office
- ▶ gary.sisk@catoosa.com
- ▶ 706-935-2424

- ▶ Arnold Hooper
- ▶ Regional Interoperability Coordinator
- ▶ City of Chattanooga
- ▶ Mobile Communications Services
- ▶ hooper_a@mail.chattanooga.gov
- ▶ 423-643-5236

