

City Wide Wireless Interconnect and TCC Implementation for Utah's Washington County



City Wide Wireless Interconnect and TCC implementation for Utah's Washington County

- 50/50 partnership with City & State
- Device connection and Installation
 - 49 each signals/ 11 each CCTV's
- Implementation of TCC (in City Hall)
- Integration of i2TMS (*icons*)
- Connection to the Salt Lake City Traffic Operation Center (via State WAN)

The Partnership

- 24 each signals = UDOT
- 17 each signals = St. George City
- 8 each signals = Washington City
- All 49 signals on a wireless spread spectrum 900 MHz
- St. George and UDOT equally matched \$80K = \$160K (Phase 1)

Wireless signal interconnect project in Washington County

POINT TO MULTI-POINT TECHNOLOGY

- Phase 1 - Winter of 2004
 - 31 each signals/5 each CCTV's
 - 5 each 5.2 GHz/26 each 5.7 GHz
 - TCC Implementation
 - i2TMS System setup
 - Begin funding process for Phase 2
- Phase 2 – Summer of 2005
 - 18 each signals in Cities of Washington and Santa Clara/6 Each CCTV's
 - All on 5.7 GHz
- Phase 2.1 – Install Fiber on Bluff Street = Santa Clara
Install Fiber on Red Cliff Dr. = Washington

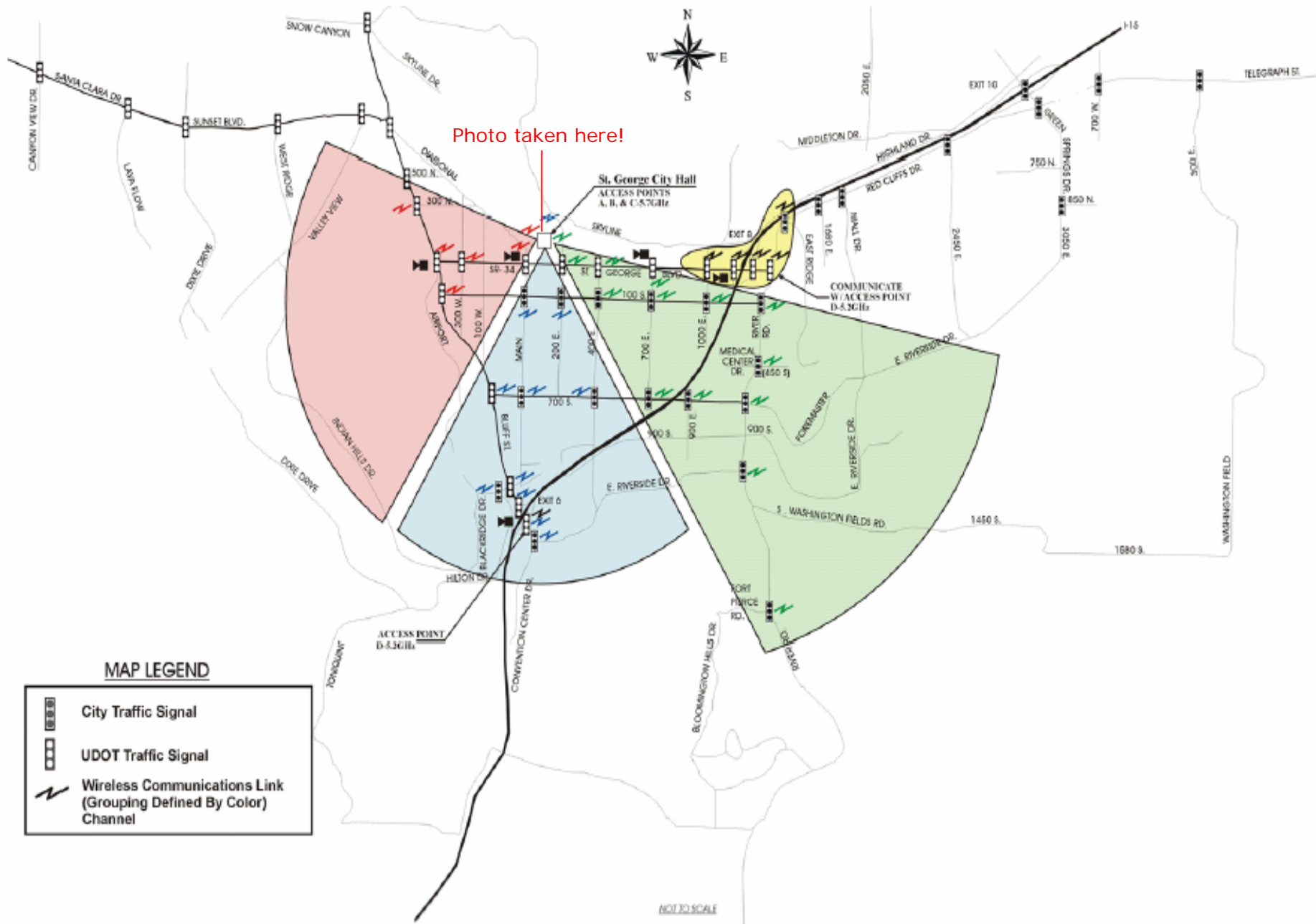
Point to Multi-Point Wireless System

- Access Point (AP) antenna's that communicate with field located multi-point Subscriber Module (SM) antenna's.
- 2 each frequencies 5.2 & 5.7 GHz
- Compatibility with State adopted signal management architecture (i2TMS)

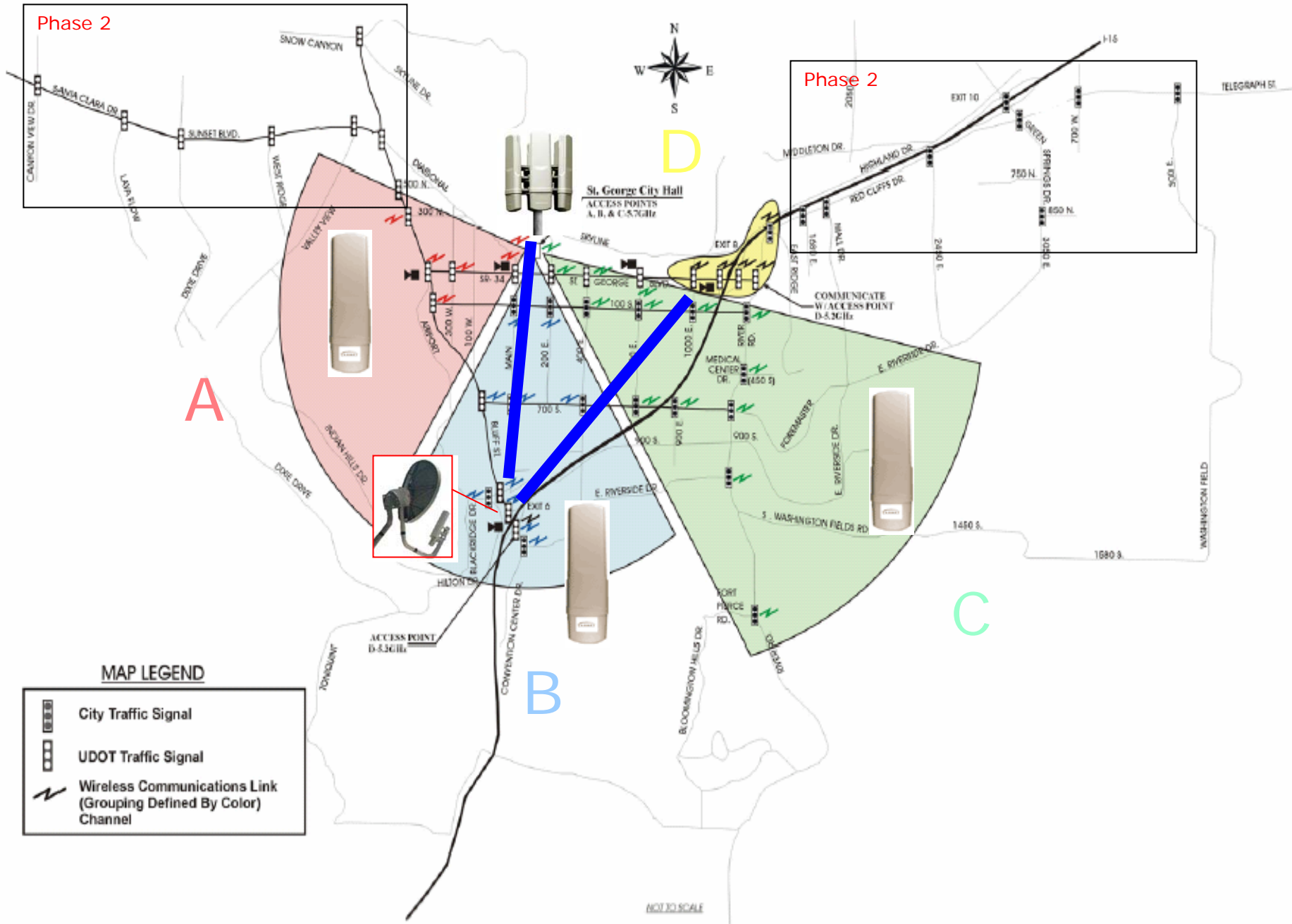
City of St. George



Attachment A



Attachment A



CCTV Communication Challenges

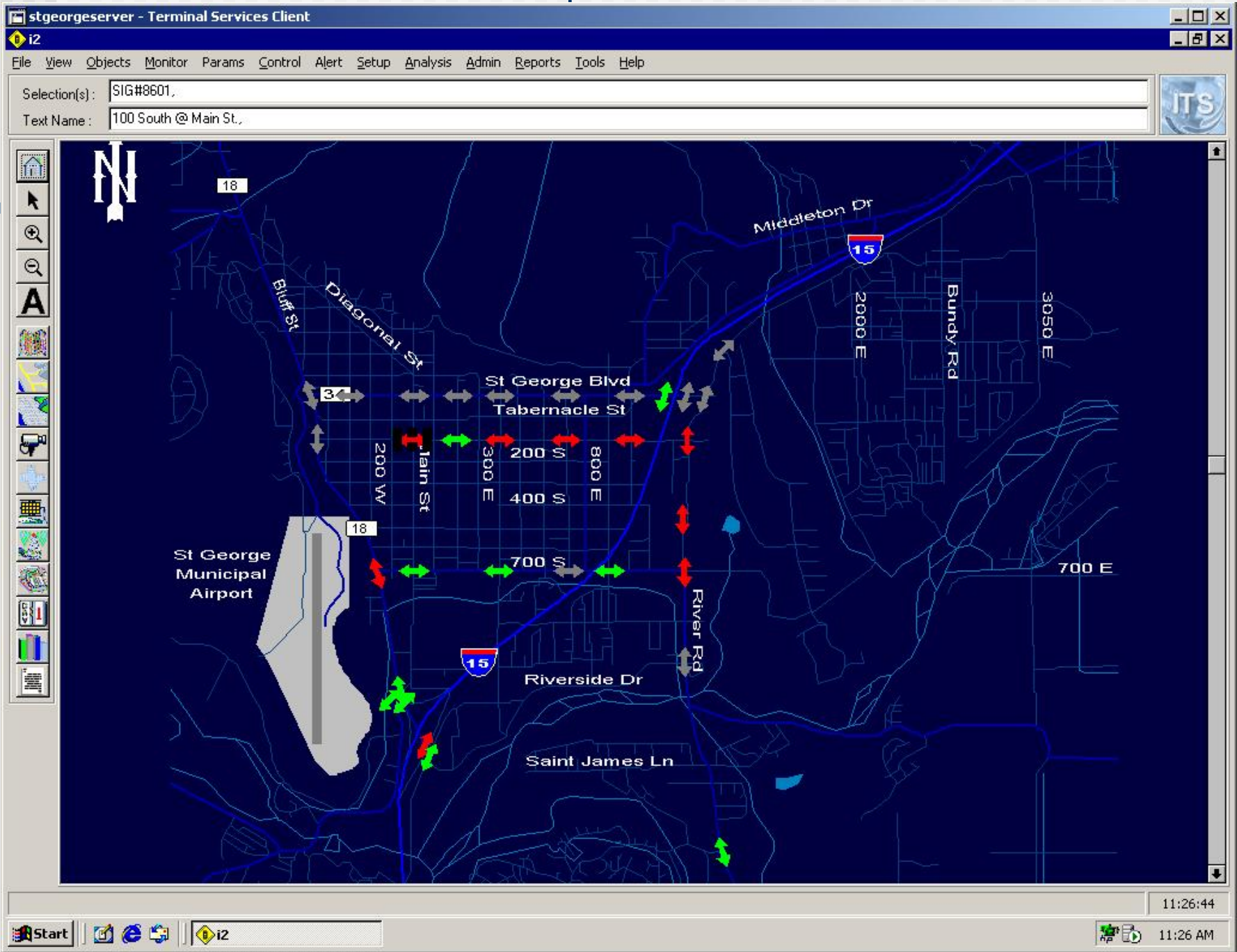
MPEG 2 vs. MPEG 4

- Axis server encoders allows MJPEG streaming video and JPEG image capturing.
 - Decoding at no cost (software)
 - Inexpensive of the shelf

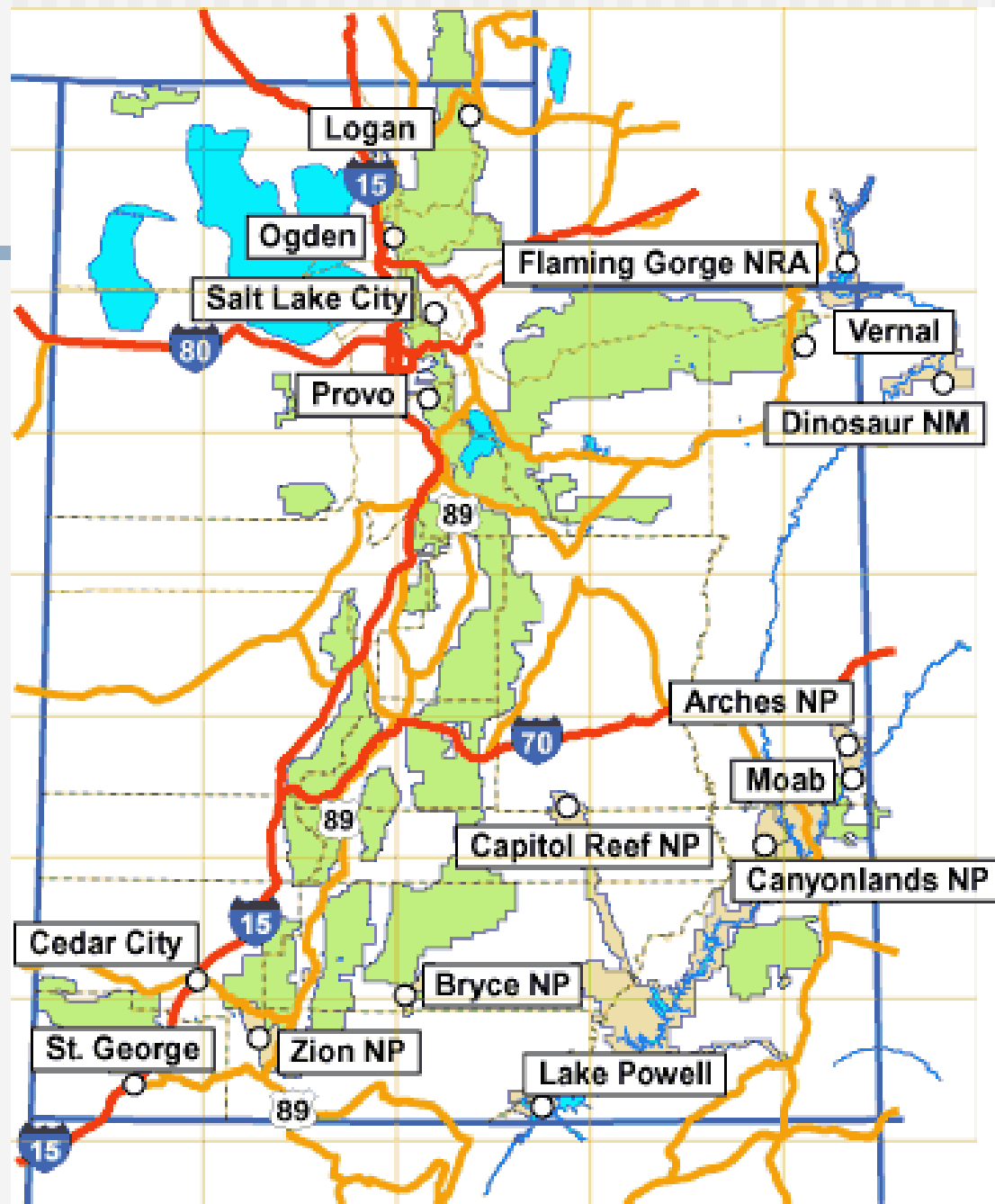
Traffic Control Center



i2TMS implementation



State of Utah



Connection to the UDOT Traffic Operation Center

- 300 mile separation of cities
- Utilization of the State's Microwave communication system.
- State Department of Information Technologies (DITS) user restriction challenges
- Firewall connection challenges

Success story

- Dixie Metropolitan Planning Organization
- Programmed \$150,000
- Exclusive ITS project funding
- Regional Architecture Study FY06
- FY07 & FY08



THANK YOU!

