Public/Private Partnerships

Expanding the Reach of Traffic Signals

Lynne Yocom
UDOT Fiber Optics Manager
“If you are working on something exciting that you really care about, you don't have to be pushed. The vision pulls you.”
Mission

• Innovating transportation solutions that strengthen Utah’s economy and enhance quality of life.
UDOT Strategic Goals

• ZERO CRASHES, INJURIES AND FATALITIES
  UDOT is committed to safety, and we won’t rest until we achieve zero crashes, zero injuries and zero fatalities. [ut.zerofatalities.com/](ut.zerofatalities.com/)

• PRESERVE INFRASTRUCTURE
  We believe good roads cost less, and through proactive preservation we maximize the value of our infrastructure investment for today and the future.

• OPTIMIZE MOBILITY
  UDOT optimizes traffic mobility by adding roadway capacity and incorporating innovative design and traffic management strategies.
UDOT Trade Partners
Telecoms

CentraCom
InterLinx
Syringa NETWORKS
BEEHIVE
CROWN CASTLE
frontier Communications
All West COMMUNICATIONS
South Central COMMUNICATIONS
Emery Telcom
STRATA NETWORKS
CONNEC
XO communications
integra TELECOM
zayo GROUP
MCI
CenturyLink
UDOT Trade Partners
State Agencies

UTA

UTAH AGRC

DTS

UCA

The University of Utah

Utah Governor’s Office of Economic Development

Utah State University
Coordinating with the Telecoms

Yearly planning meeting
- Single point of contact for the state
- Telecom wish-list

Know what facilities are available in the row to help direct inquiries to the proper entities
- Permits Office coordination
- ROW office coordination
- Information/Communication is key!
## Fiber and Conduit Information

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Reducing Broadband Deployment Time

• Make access to the right of ways easier.
  – Cooperation between Federal and State Agencies
    • DOT’s
    • Forest Service
    • BLM
    • School Land Trust
    • State Parks
    • National Parks

• Open up the ROW all the time.
  – No exclusive access to one company.
Underserved Areas Incentives

• If you build it they will come.
  – Examples
    • Scipio to Holden – CentraCom
    • Logan – Syringa
    • Heber – AllWest
    • Cottonwood Canyons - Crown Castle
• Help communities understand how to attract fiber telecom providers.
  – Let them use UDOT standards for construction.
  – Attend planning meetings help with coordination.
Recommendations On Policies

• Utah State Rules and Policy on Longitudinal Access for Telecommunications

  • http://le.utah.gov/code/TITLE72/htm/72_07_010800.htm
  • http://le.utah.gov/code/TITLE72/htm/72_07_010900.htm
  • http://www.rules.utah.gov/publicat/code/r907/r907-064.htm
  • http://www.rules.utah.gov/publicat/code/r930/r930-007.htm
The Cottonwoods

- 4 Major Ski Resorts
- 500 inches annual snowfall
- Popular recreation Year-Round
Peak traffic days are powder days.
Avalanches
Why Build the Cottonwoods?

- No monitoring road Conditions
- Poor communications
  - Operations groups
  - Emergency response
  - Avalanche control
  - Ski resorts and lodges
  - Everyday users
Crown Castle International

- Wireless infrastructure company
- Supports all carriers
- Proposed DAS in each canyon
Crown Castle Received

- Build Fiber-Optic Backbone in ROW
- Wireless Towers in ROW
- Use of UDOT fiber conduit
- Hub building on UDOT ROW
UDOT Received

• 24 strands on fiber cable
• Spare conduit
• Access to all poles for equipment
• RWIS Installation
• Power for devices
• Hub space for equipment
NEPA -1 Year
Design Challenges

- Granite Rock
- Bridge Attachments for Creek Crossings
- Power Availability
- Existing Utilities
- Clear Zone Obstructions
Construction Challenges

- Stakeholder involvement
- Limitations:
  - Watershed oversight
  - Trench length
  - Traffic control
  - Night work
  - Environmental controls
- Accommodation of recreational users
Project Summary

- Projects Estimate: $5 Million
- 35 poles
- 24.5 Miles fiber optics
- 7200 Volt Electrical Systems
- 12 new cameras
- 8 RWIS
- 15 chain-up signs
- Improved communications for All Users
- Avalanche Operations Center
- Future ITS expansion (dms, etc.)
State
2006
UDOT Fiber/Conduit 631 Miles Aprox.
Traded Fiber/Conduit Circuits
100 Miles Aprox.
State 2015

UDOT Fiber/Conduit 960 Miles Aprox.

Traded Fiber/Conduit Circuits 1000 Miles Aprox.
If you want to be incrementally better: Be competitive. If you want to be exponentially better: Be cooperative.

Unknown Source
Questions?

Lynne Yocom
lyocom@Utah.gov

(801) 887-3780