

Traffic Management Division

Accomplishments and Needs Report

Report to the Utah Transportation Commission
December 7, 2012

Rob Clayton, P.E., PTOE
Director of Traffic Management

Selected 2012 Accomplishments

- Traffic Signal Program: Transition to World Class
- Strategic ATMS deployments
- Improved Traveler Information
- New marketing strategy: Launch of “UDOT Traffic”
- Operational expertise provided for key Region projects

Traffic Signal Program: Transition to World Class

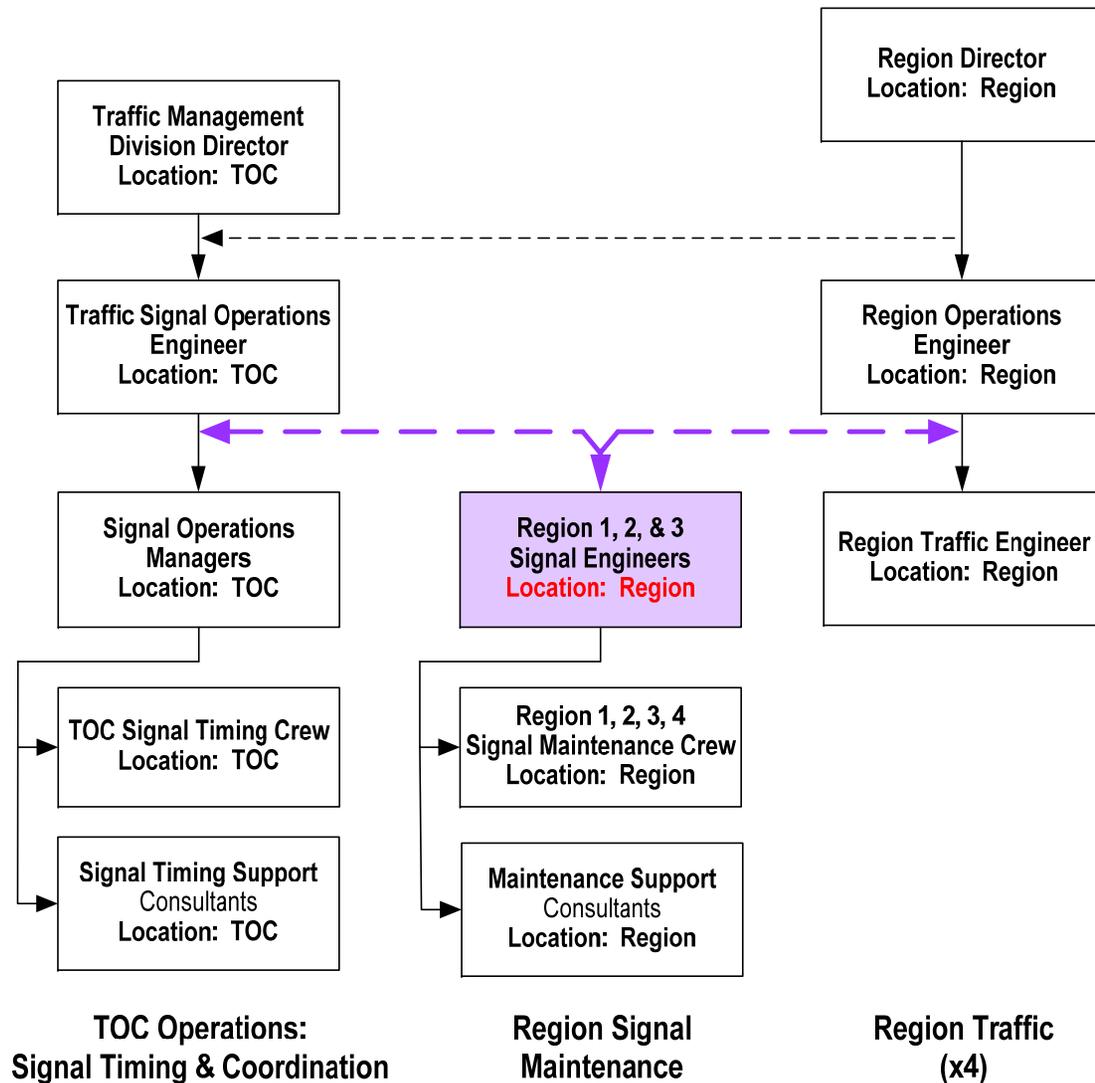


Traffic Signal Program: Transition to World Class

Progress in 2012:

1. Developed and implemented a matrix organization.
2. Began the transition from reactive to proactive traffic signal maintenance.
3. Implemented a means to monitor and measure the performance of the traffic signal network.

Traffic Signal Program: New Matrix Organization



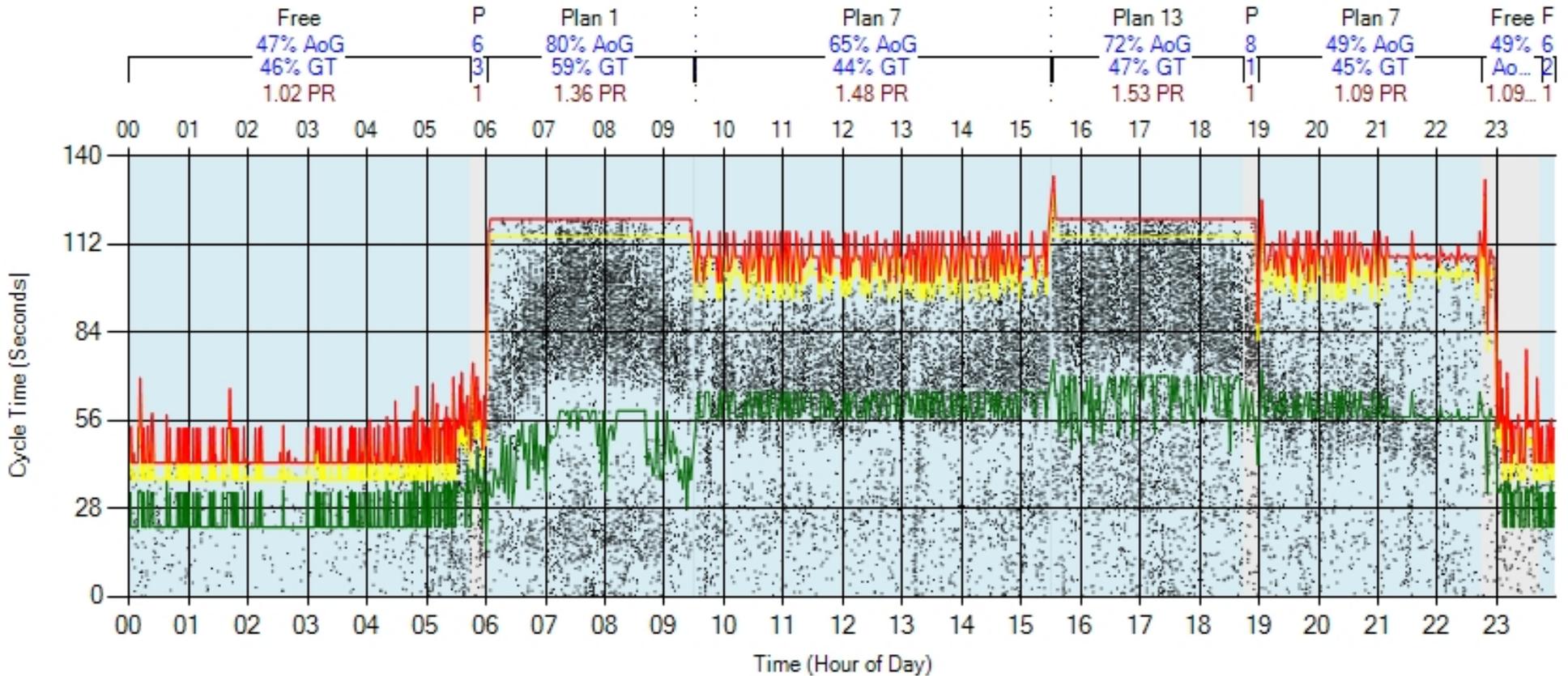
Traffic Signal Program: Proactive Signal Maintenance



Traffic Signal Program: Real-time performance measures

Bangerter Highway 9800 South Signal 7365 Phase 2 Northbound
Thursday, November 29, 2012 12:00 AM - Thursday, November 29, 2012 11:59 PM

68% AoG



“Arrivals on Green” – a measure of the quality of coordination

Strategic ATMS Deployments:

VMS

- I-15, SB in Beaver
- I-15, SB before Toquerville
- I-15, NB in Cedar City
- I-15, SB in Scipio
- I-15, NB in Fillmore
- I-15/I-70 Interchange (3)
- US-40, NB and SB in Heber
- SR-201, WB at 3500 W and 4800 W
- Bangerter, NB at 2300 S
- I-15 CORE, 4 signs in N Utah County



Strategic ATMS Deployments: Expansion of the Fiber Optic Network



Strategic ATMS Deployments: Expansion of the Fiber Optic Network

Highlights:

Region 1

- I-15, Ogden to SR-30
- SR-30, I-15 to Logan

Region 2

- North Temple (w/UTA)
- UTOPIA signal interconnect (73)

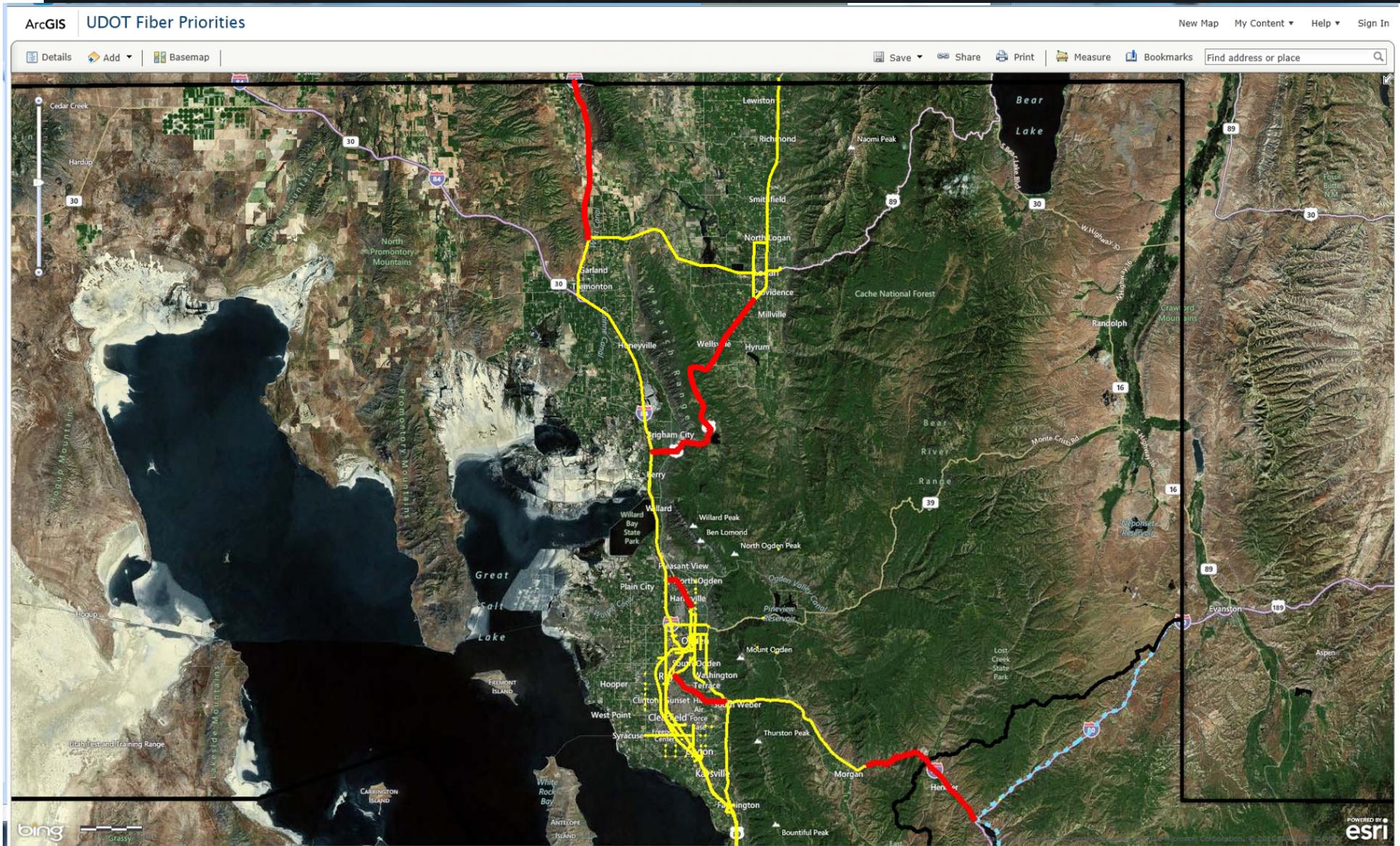
Region 3

- US-189, Deercreek Dam to Heber
- Utah County Blvd, Highland to PG
- SR-73, Saratoga to Eagle Mtn

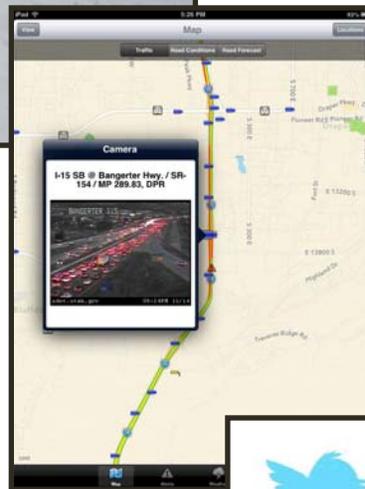
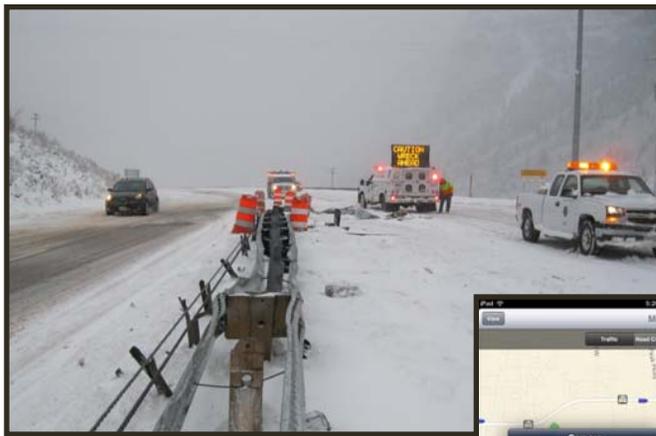
Region 4

- I-15, Hamilton Fort to Cedar City
- I-15, South Beaver to North Beaver
- I-15, Scipio to Holden

Strategic ATMS Deployments: Expansion Plan for the Fiber Optic Network



Improved Traveler Information



UDOT Traffic @UDOTTRAFFIC 11 Nov
WEATHER ALERT: Heavy road snow will continue to impact I-80 thru Parley's Cynn this morning. udottraffic.utah.gov/CLALertViewer... pic.twitter.com/CvhmfUfe
[View photo](#)

Improved Traveler Information

Progress in 2012:

1. Enhanced the road weather forecasting program to increase forecast frequency and geographic coverage.
2. Developed and are implementing a citizen reporting program for road weather conditions.
3. Developed and are implementing a communications tool for Little Cottonwood Canyon.

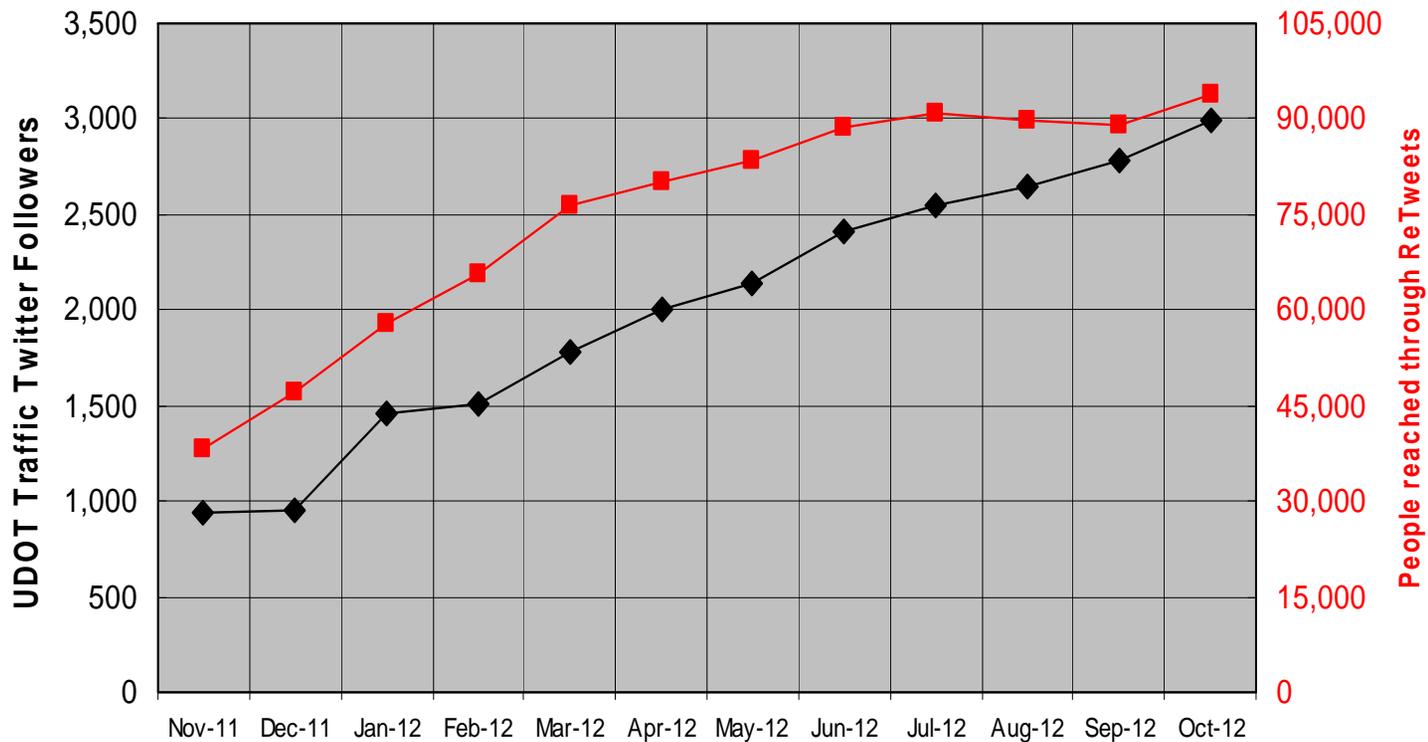
Improved Traveler Information: UDOT Traffic App

The UDOT Traffic app has been downloaded 92,000 times since its November 2011 release.



Improved Traveler Information: UDOT Traffic Twitter account

UDOT Traffic Twitter Account



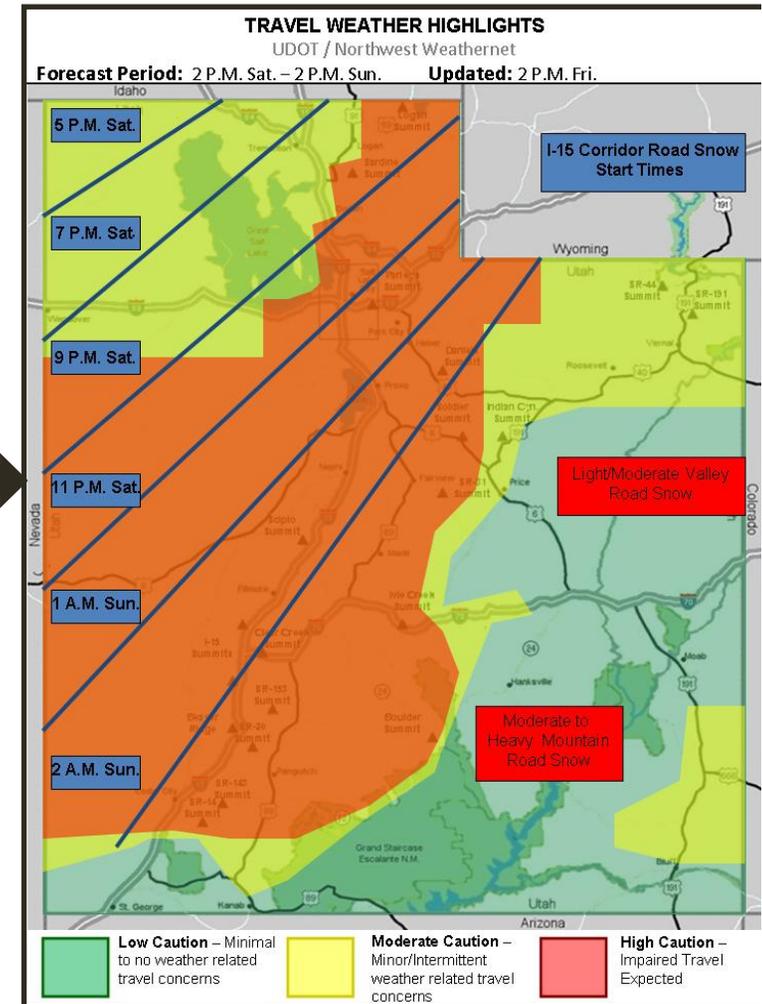
UDOT Traffic @UDOTTRAFFIC

WEATHER ALERT: Heavy road snow will continue to impact I-80 thru Parley's Cynn this morning. udottraffic.utah.gov/CLALertViewer... pic.twitter.com/CvhmfUfe

[View photo](#)

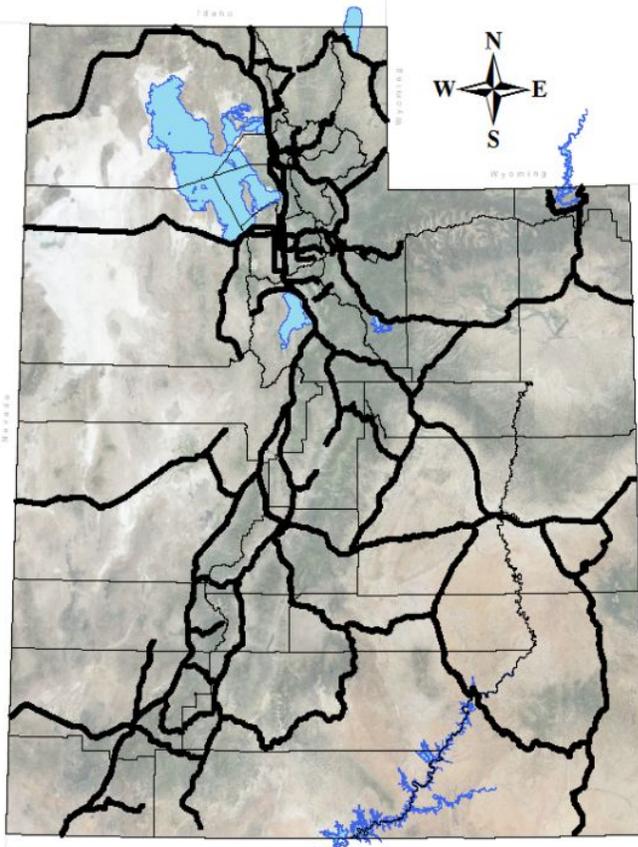
11 Nov

Improved Traveler Information: Enhanced Road Weather Forecasting



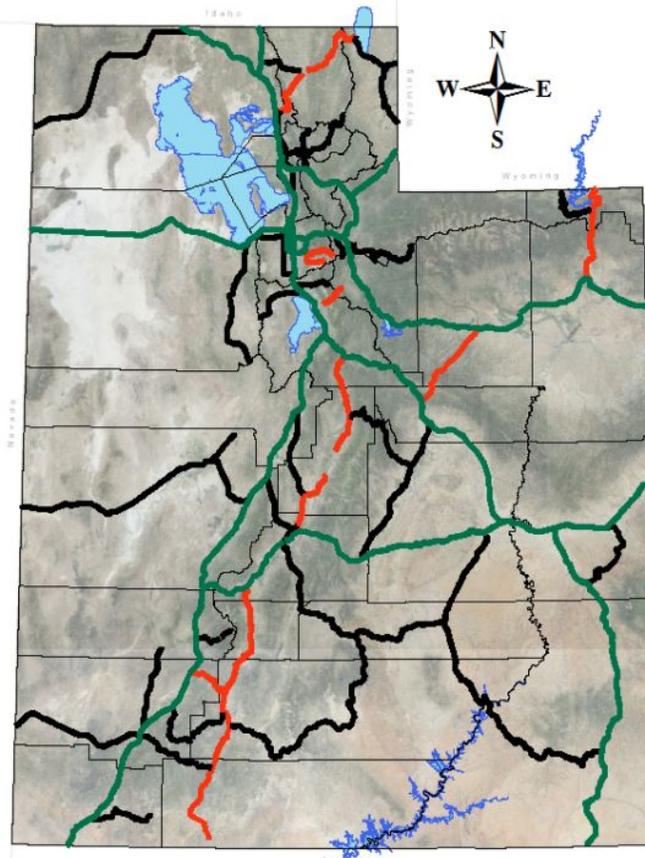
Improved Traveler Information: Enhanced Road Weather Forecasting

TATS Segments



— TATS Segments "Current Conditions"

Existing and New Forecast Segments



- Existing Road Conditions Forecast Segments
- TATS Segments "Current Conditions"
- New Road Conditions Forecast Segments

Improved Traveler Information: Citizen Reporting Program

- Recruit citizen volunteers to provide road weather reports
- Use technology to collect reports (mobile and web apps)
- Our meteorologists provide quality control
- Intended to supplement plow driver reports and road weather forecasts
- Testing this season with volunteer UDOT employees
- FHWA is documenting the project as a demonstration for other states.



Improved Traveler Information: Citizen Reporting Program

Citizen Reporting Program: Sample report using the mobile app



Improved Traveler Information: Little Cottonwood Canyon

Challenge:

Coordinate traveler information in the canyon from multiple agencies.

Unstable snow forces closure of Little Cottonwood Canyon
May 6, 2011



KSL.com

Avalanche covers road, Little Cottonwood Canyon now open
February 23, 2012



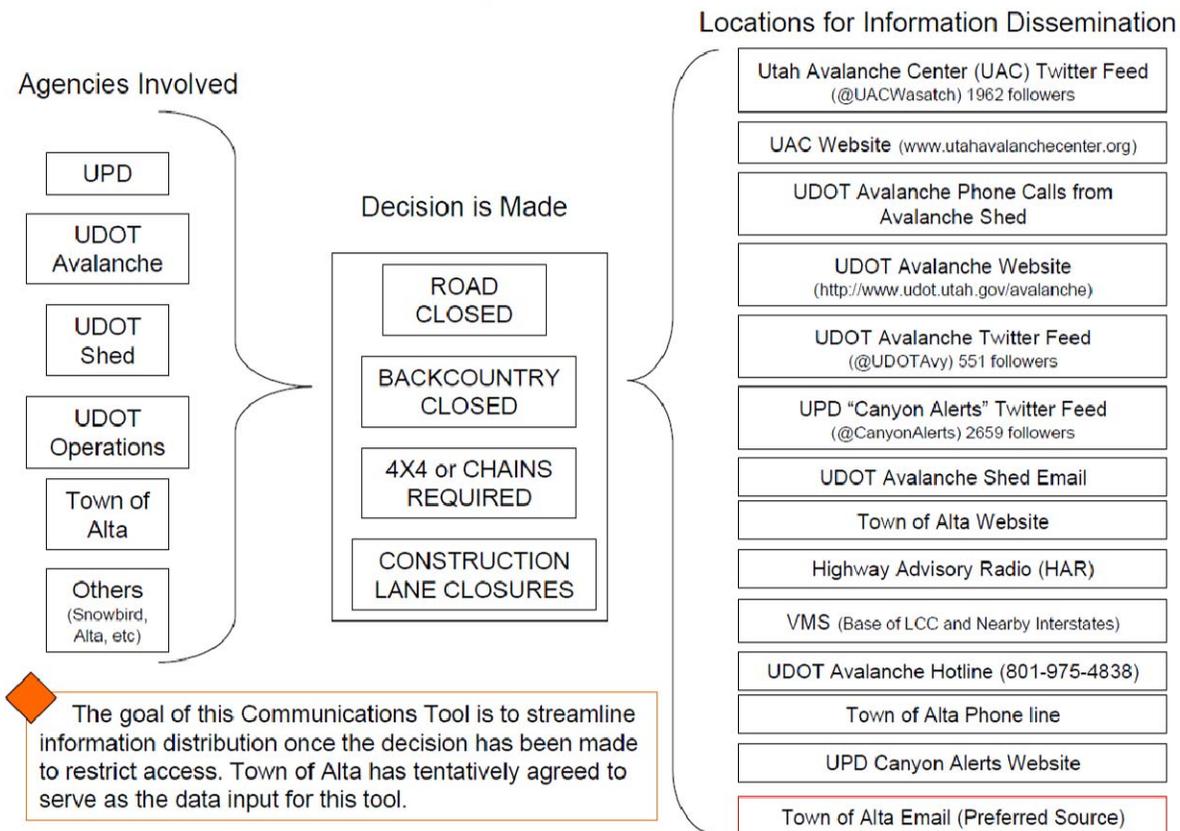
KSL.com

Improved Traveler Information: Little Cottonwood Canyon

Challenge:

Coordinate traveler information in the canyon from multiple agencies.

Little Cottonwood Canyon Avalanche Communications Tool



Improved Traveler Information: Little Cottonwood Canyon

The new communications tool:

- Formalizes the process for interagency information sharing
- Establishes a “clearinghouse” for public notifications – Town of Alta
- Ensures consistent information is being disseminated



New Marketing Strategy:

Re-evaluate the "CommuterLink" Brand

~ In the minds of the public ~ (2011)

- UDOT is primarily responsible for traffic
- UDOT needs to communicate traveler info more effectively
- Recognize CommuterLink – but can't connect it
- Less concerned with WHO than WHERE
- Want it PUSHED to them
- Need it easily and readily accessible

New Marketing Strategy: Launch of "UDOT Traffic"

Public feedback summarized:

- CommuterLink was misunderstood as a brand
- CommuterLink was not intuitively connected to UDOT

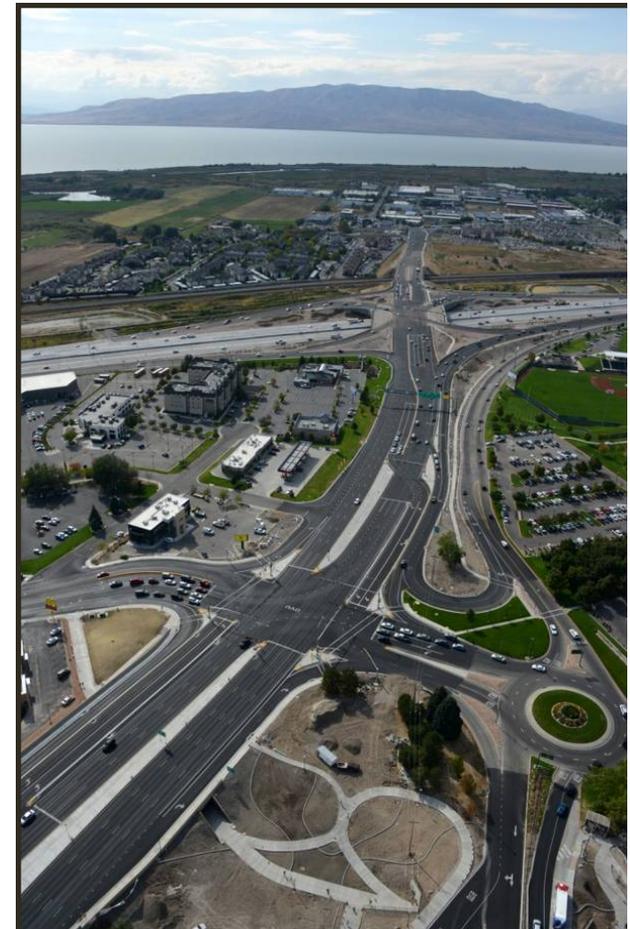
We were not connecting with our customers.



Traffic Operations Expertise

Technical support provided for complex Region projects:

- 5400 S Flex Lane project
- CFI at Sandhill Road / University Parkway
- DDI at Bangerter Highway / SR-201
- SPUI at Layton Hills Parkway / I-15



2013 - 2014 Priorities

- Personalization of the UDOT Traffic website and mobile app
- Strategic Maintenance Plan for every ATMS device
- ATMS and traffic signals System Health monitoring
- Performance monitoring of traffic signal operations
- Integration of UHP CAD data for statewide dispatch centers
- Replace statewide traffic signal control software
- VMS for US-6/I-70 interchange
- Fiber optics in Big and Little Cottonwood Canyons

FY 2014 Funding Request

Program	Purpose	FY 2013	FY 2014
Traffic Signal Operations	Traffic signal maintenance and operations; consultant and contractor support	\$ 5.6 M	\$ 5.6 M
ATMS Deployment	New devices; fiber optics; software solutions	\$ 3.0 M	\$ 3.0 M
ATMS Maintenance	Equipment; consultant and contractor support	\$ 0.8 M	\$ 0.8 M
Total (State)		\$ 9.4 M	\$ 9.4 M

rclayton@utah.gov
801-887-3707

