

Regional Transportation Commission of Southern Nevada

BRT Technology Advancements session

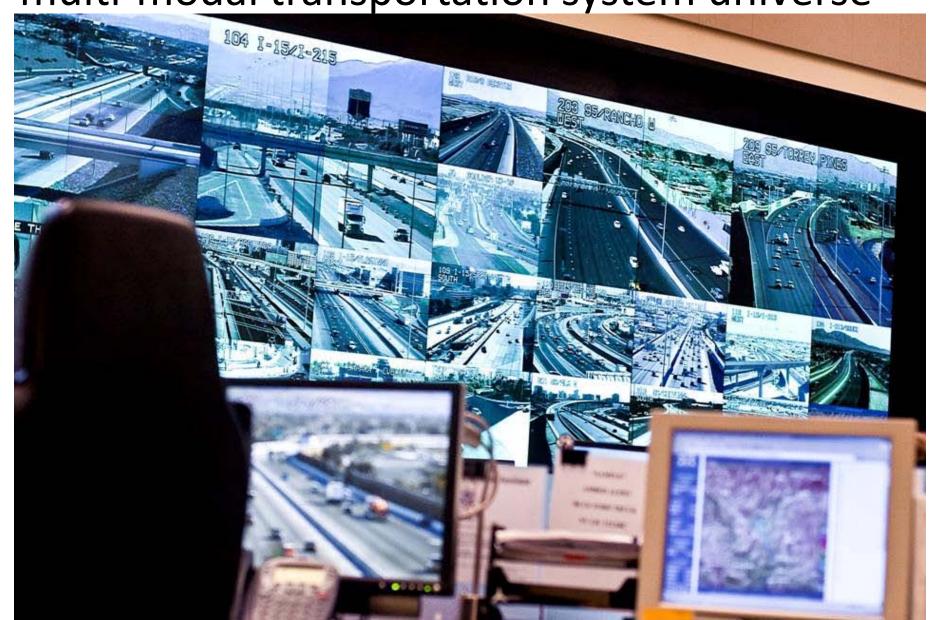
5th National **Bus Rapid Transit Conference**

Brian Hoeft August 22, 2012





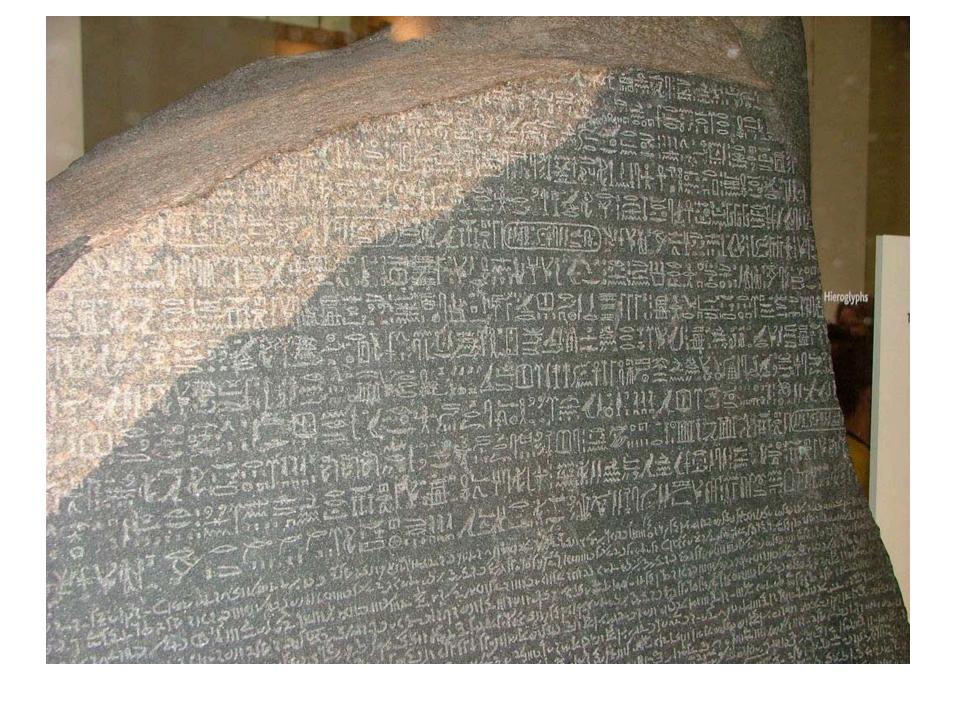
The emerging center of the multi-modal transportation system universe













Deployment

Library

News

Calendar

Forum

Committees

MGB









the National Transportation Communications for ITS Protocol ONLINE RESOURCE...

Home: Welcome to NTCIP

Where to Start on the NTCIP Website?

The NTCIP is a joint standardization project of AASHTO, ITE, and NEMA, with funding from the RITA ITS JPO. People new to the NTCIP should download The NTCIP Guide (NTCIP 9001). Browse to the Library >> Document Links table to find the status and availability of all the standards.

List of Recent PDFs Available

The most recent NTCIP standards released for downloading were:

- 9001 new version v04, The Guide (July 2009 release);
- 1204 new version v03, ESS with TP (November 2009) release);
- 8005 version 01, Creating MIB Files (July 2010 release);
- 8004 version 02, SMI (August 2010 release);
- 2301 version 02, AP-STMF (September 2010 release);
- 1103 version 02, TMP (October 2010 release);
- 1201 version 03, GO (March 2011 release);
- 1213 version 02, ELMS (March 2011 release).

Visit the Library >> Document Links table to find the shopping carts.



NTCIP Guide



Check out the NTCIP 9001 "Guide" for detailed deployment and NTCIP procurement information.

NTCIP Forums



The NTCIP Forums provide a channel for technical folks and practitioners alike to discuss the NTCIP. Topics include Outreach, Testing, Standards and Working Groups.

NTCIP Library



Use the Library table to find the NTCIP document number you need. The Library Table has links to the status information, drafts, and Jointly Approved standards.



RTC / FAST current daily activities

WHAT ISTRANSPORTATION SYSTEMS MANAGEMENT & OPERATIONS?

Transportation systems M&O refers to multimodal transportation strategies to maximize the efficiency, safety, and utility of existing and planned transportation infrastructure. M&O strategies encompass many activities, such as:

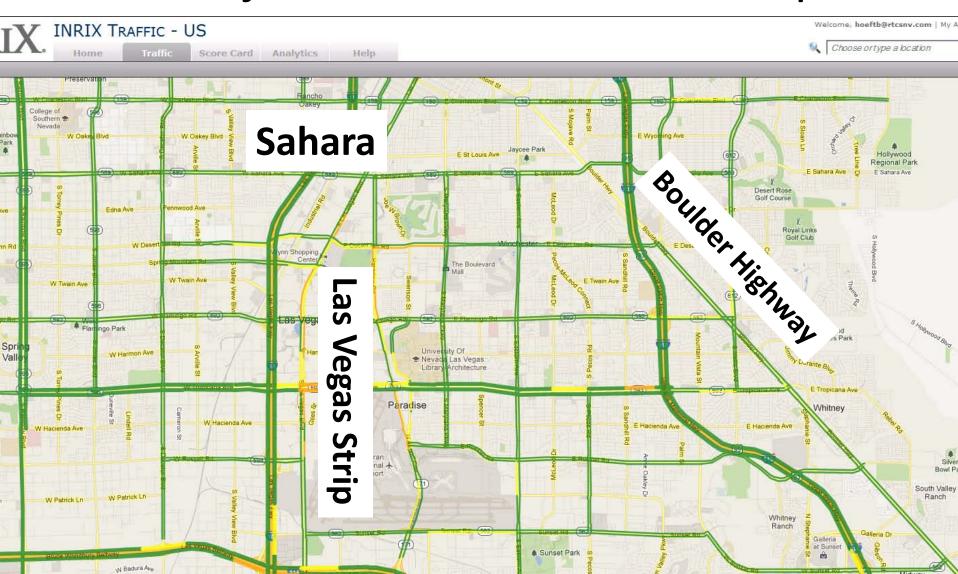
- Traffic incident management.
- Traffic signal coordination.
- Transit signal priority (TSP) and bus rapid transit (BRT).
- Freight management.
- Work zone management.
- Special event management.
- Road weather management.

- Congestion pricing.
- Managed lanes.



- Parking management.
- Electronic toll collection and transit smart cards.
- Traveler information systems.

21st century traffic information is more than just colored lines on a map



As of June 2012, 364 CCTVs including:



37 on LV Strip

27 on Sahara

14 on Boulder Highway







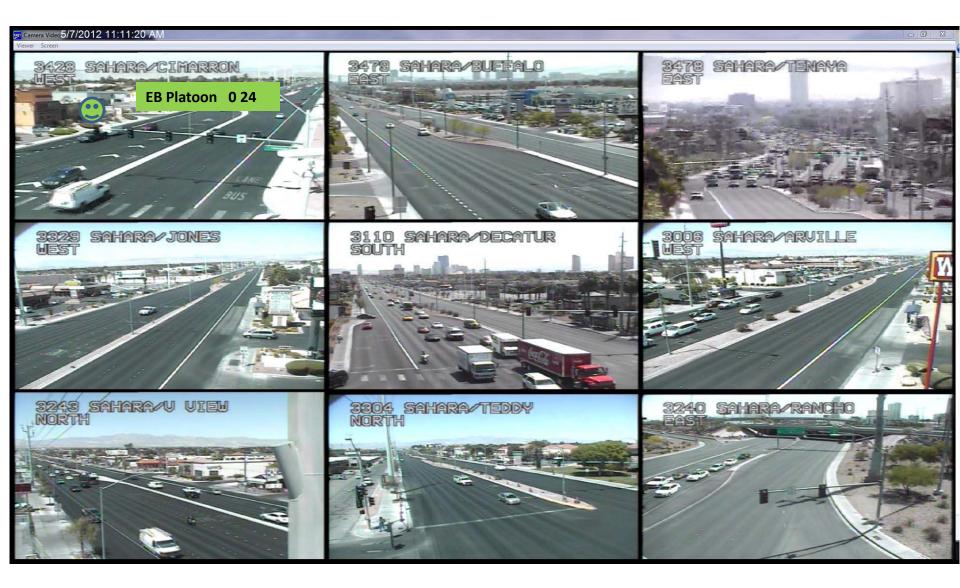




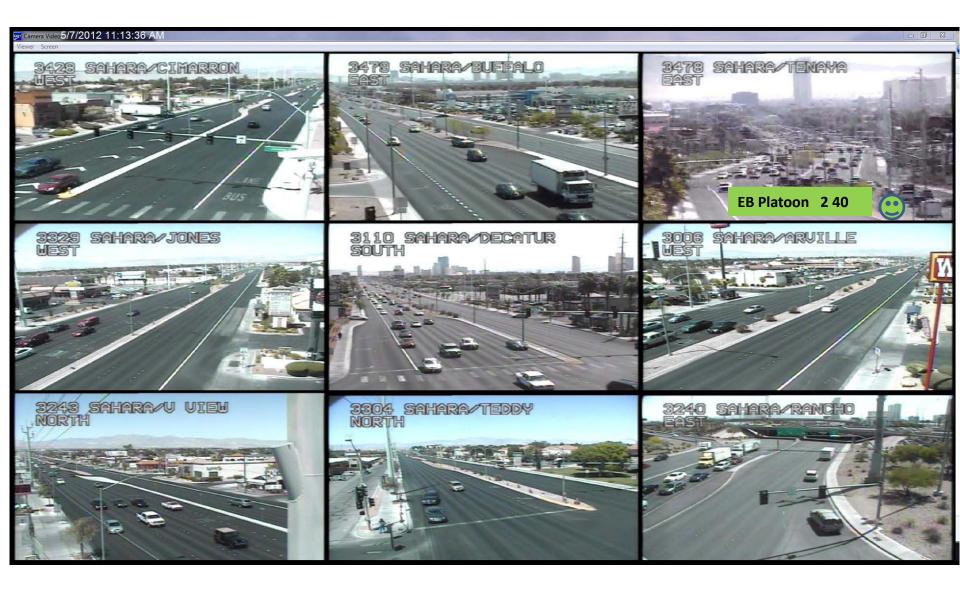


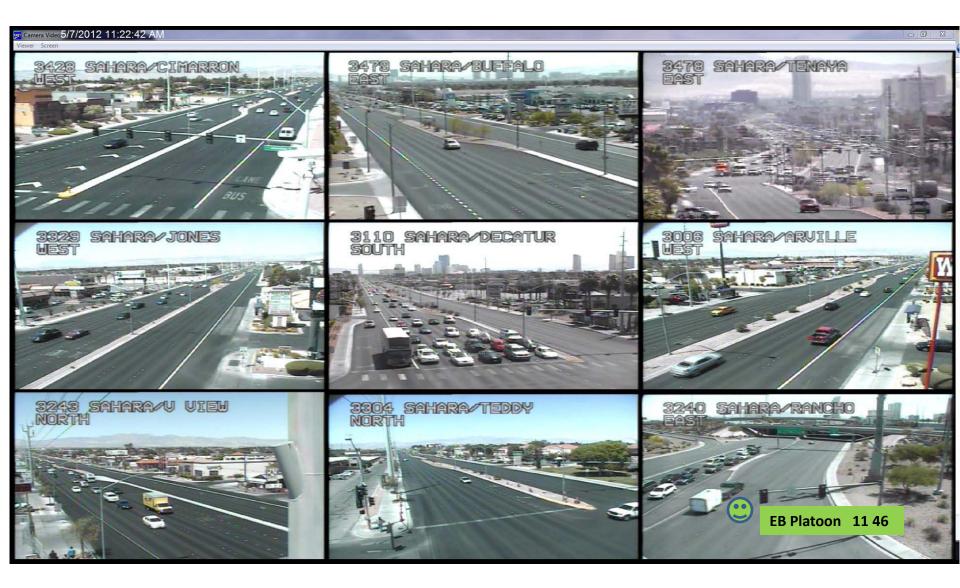


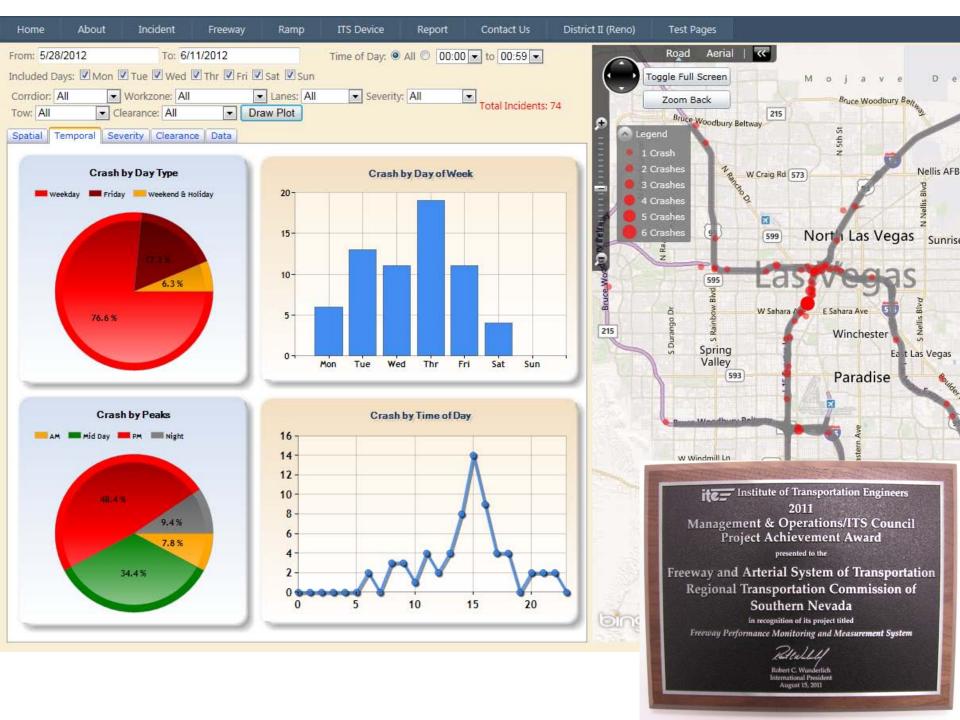


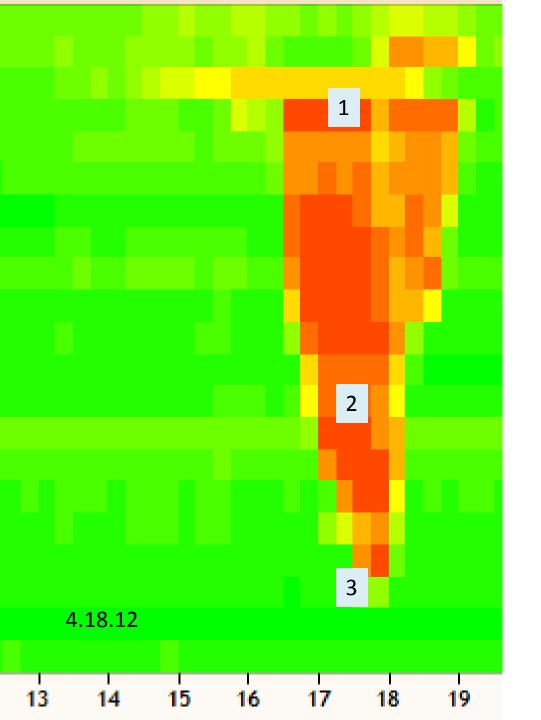








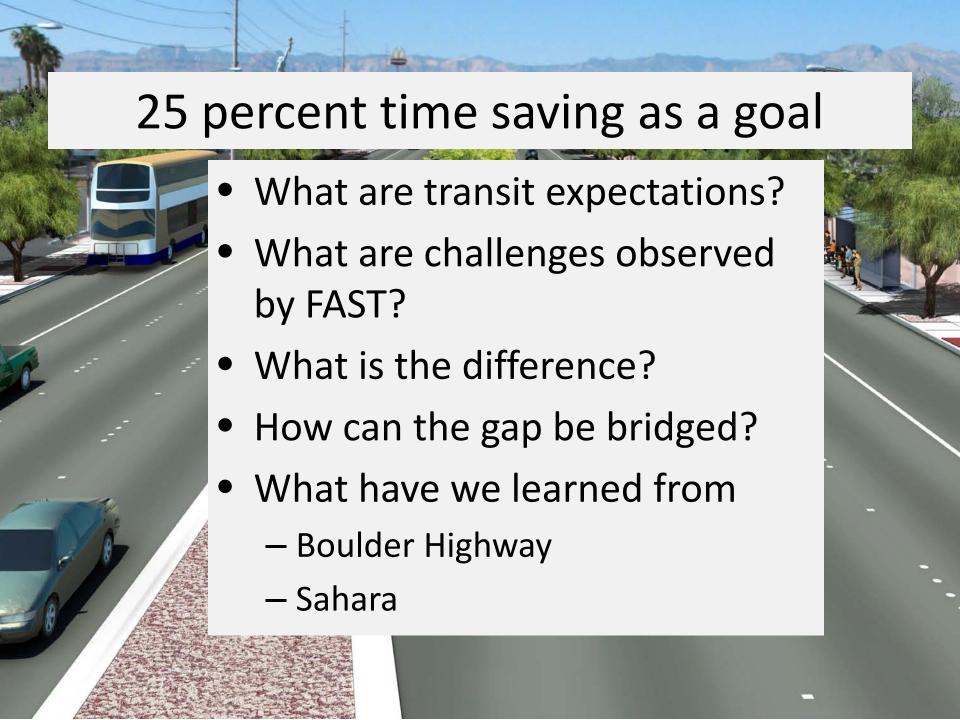












- Route timed with following assumptions:
 - Speed limit
 - Number of stops
 - Number of signals
 - Dedicated lane
 - Previous route times
 - Barrier free boarding
 - TSP



Naztec

Operations Manual

For

Transit Priority

Using Controllers with Version 76.x Software

