Cost Effective Implementation Of The New Real-Time System Management Information Program (RTSMIP)

ITS Tennessee

September 29, 2011
RTSMIP – The Early Days

• Section 1201 of SAFETEA-LU (signed by Pres. Bush August 10, 2005) “requires the Secretary to establish a RTSMIP that provides, in all states, the capability to monitor, in real-time, the traffic and travel conditions of the major highways of the United States and to share these data with State and local governments and with the traveling public.”
RTSMIP – Now A Rule!

• 23 CFR Part 511 effective December 23, 2010
• Interstates shall be completed no later than November 8, 2014
  • 20 minutes or less reporting
• State-designated metropolitan area routes of significance shall be completed no later than November 8, 2016
  • 10 minutes or less reporting
• Metropolitan areas (MSAs) greater than 1M population
  • Nashville-Davidson–Murfreesboro–Franklin, TN
  • Memphis, TN-MS-AR
RTSMIP – The Details

• Eligibility for Federal funding
  • Planning, deployment and operation, including preventative maintenance
    • National Highway System (NHS)
    • Congestion Mitigation and Air Quality Improvement (CMAQ)
    • Surface Transportation Program (STP)
  • Development and implementation
    • Statewide Planning (SPC)

• Match
  • Solely for Interstate – 10% (90% Federal share)
  • Non-Interstate highways – 20% (80% Federal share)
RTSMIP – The Details

• Provisions for traffic and travel conditions reporting
  • Minimum requirements
    • Construction activities that close or reopen roadways or lanes
    • Roadway or lane blocking incidents
    • Roadway weather observations
      • Hazardous driving conditions and roadway or lane closures or blockages
    • Travel time information (metropolitan areas)
  • Information accuracy
  • Information availability
RTSMIP – The Details

• Provisions for traffic and travel conditions reporting
  • May be established using:
    • Legacy monitoring mechanisms
    • A statewide incident reporting system
    • New monitoring mechanisms
    • Value-added information products
    • A combination of monitoring mechanisms and value-added information products
RTSMIP – The Details

• Data quality
  • States shall develop the methods by which data quality can be ensured
  • States shall receive FHWA’s concurrence that methods provide reasonable checks of the quality of the information made available
RTSMIP – The Details

• Participation
  • Highway agencies
  • Public safety agencies
  • Transit operators
  • Other operating agencies necessary to sustain mobility

• Update of Regional ITS Architecture
  • Determine whether Regional ITS Architectures explicitly address real-time highway and transit information needs and the methods to meet such needs
  • If necessary, Regional ITS Architectures shall be updated to address coverage, monitoring systems, data fusion and archiving...
RTSMIP Coverage Today?

200,000+ Miles Available For Viewing at INRIXTraffic.US FOR FREE
INRIXTraffic.US – What Is It?

- Public-private partnership available to all public sector agency staff and operations contractors
- Register at http://inrixtraffic.us/Register.aspx
  - Takes about 24 hours to approve your account, so it is not like signing up for a “regular” website.
- Please tell your partners – City, County, MPOs, fire, police, emergency management, etc.
INRIXTraffic.US – Coverage
INRIX Core Coverage – 2,017 centerline miles
INRIX Traffic US

INRIX Core Coverage – 192 centerline miles
INRIXTraffic.US
First Free Traffic Operations Service for Transportation Agencies Nationwide

- Over 700 agency personnel in over 45 states accessing the site
- Unique access to traffic flow data in cities, statewide & across state lines
  - Provides a complete, real-time picture of current traffic speeds and confidence parameter for 200,000+ miles of roads nationwide
  - Provides statewide and over-the-border views of traffic flow of value particularly in times of crisis or during heavy travel periods
- Used daily / weekly by most agencies
- Agencies say data reflects actual conditions and is useful to them
- Feedback received on suggested improvements
  - Updated base map to address some items
INRIXTraffic.US Closures

Automated Process (XML Schema) Available
## Agency Partner Program

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![Map of Tennessee with traffic data](image.png)
INRIX Smart Driver Network – North America

Billions of real-time GPS probe reports per month (15-minute time slice below)
INRIX Smart Driver Network
# INRIX Key Customers

## Automotive & Portable Navigation
- Garmin
- Ford
- Asus
- ATX
- Nav N Go
- Mazda
- Navigon
- BMW
- Panasonic
- Siemens VDO
- harman/kardon
- Jaguar
- Aston Martin
- Land-Rover
- Mini
- TomTom
- Continental
- Clarion
- Delphi
- JVC
- Mercedes-Benz

## Mobile
- Telenav
- INFOxx
- AAA
- AT&T
- Bellsouth
- MobileGates

## Internet & Media
- WDR
- ANWB
- MapQuest
- Microsoft
- YellowBrix
- Total Traffic Network
- RealTimeTraffic.com

## Public Sector
- GIS Holdings
- SEH
- Senoza
- PBSJ
- SCDOT
- Cambridge Systematics
- Pennsylvania Department of Transportation

## Fleet & Enterprise
- UPS Logistics Technologies
- Tracker
- GeoDecisions
- SuperShuttle
- Intergis
Our Vision

Revolutionize the way people travel from place to place by providing the best traffic information and driver services
THANK YOU!

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