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

ITS Tennessee

September 29, 2011

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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."

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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

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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)

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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

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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

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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

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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...

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RTSMIP Coverage Today?

200,000+ Miles Available For Viewing at INRIXTraffic.US FOR FREE

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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.

Create New Account

INRIX Traffic.US is a free service open to all public agency employees - and their onsite contractors - who manage any part of the nation's limited access road network. Accounts will be approved for these employees only - it is not available to the general public. Your account requires approval from INRIX and could take up to 24 hours for activation. Once approved you will receive a confirmation email and will then be able to access the site. If you registered with a non-agency email address (example: Yahoo, Gmail, Hotmail), your registration will be delayed.

Name:

Email (Username):

Company Name:

Address:

City:

State/Province:

Postal Code:

Country:

Phone Number:

Password:

Confirm Password:

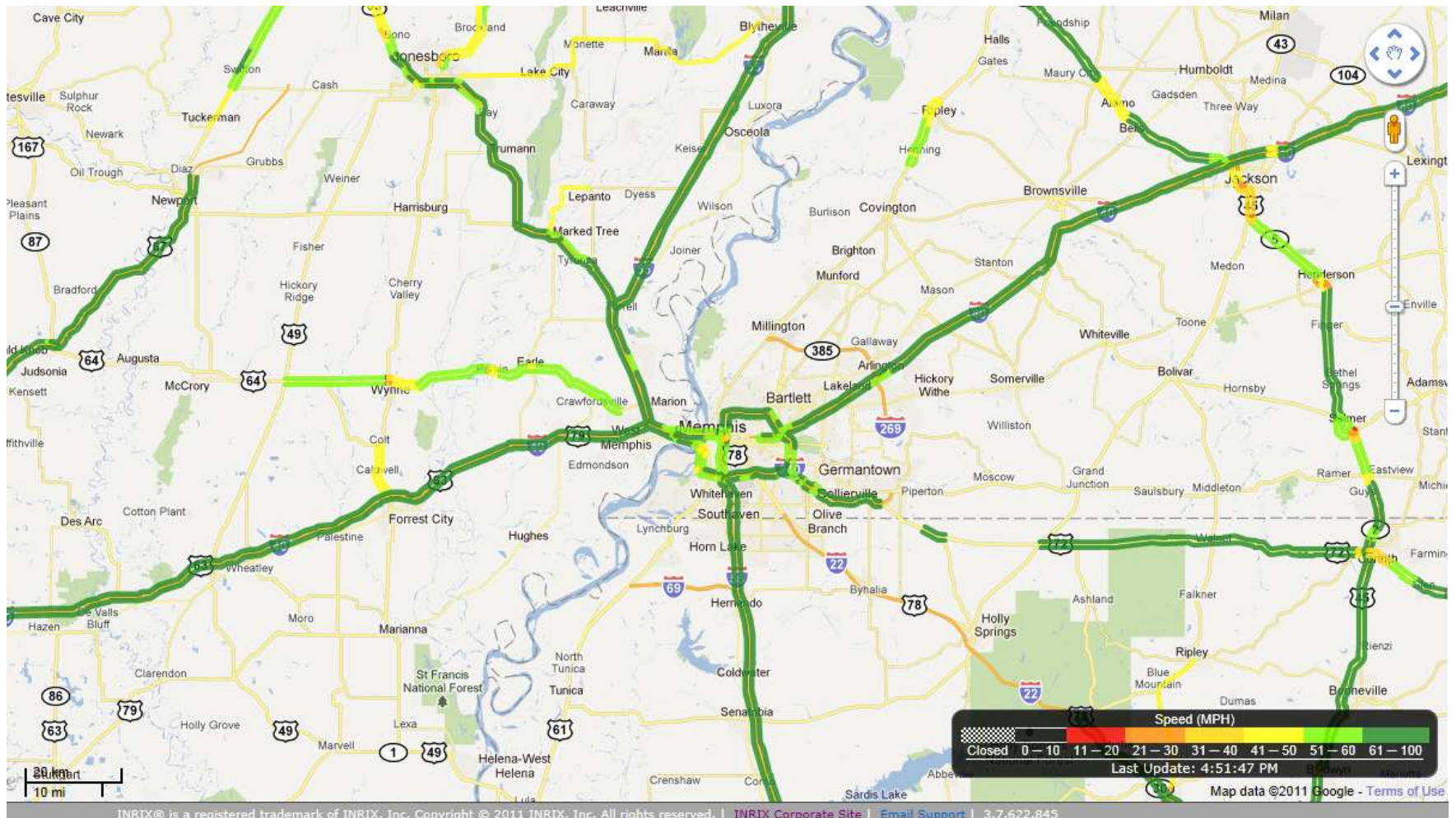In case you forget your password

Security question:

Security answer:

Create Account

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INRIXTraffic.US – Coverage

INRIX Core Coverage – 2,017 centerline miles
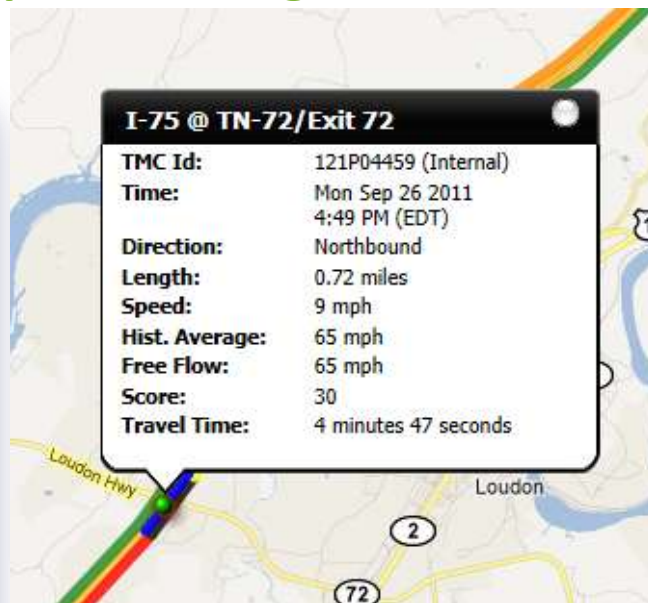
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INRIXTraffic.US
INRIX Core Coverage – 192 centerline miles

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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

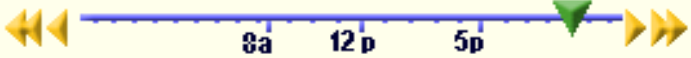 - Updated base map to address some items

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INRIXTraffic.US Closures

Automated Process (XML Schema) Available

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Agency Partner Program

Partner Provides to INRIX	INRIX Provides to Partner
Sensor data in real time	Sensor Health
CCTV feeds	Image direction label and distribution
Incident feed in real time	Distribution and crowd source ratings
Planned Roadway Closures	Aggregation platform and distribution

INRIX Smart Driver Network – North America

Billions of real-time GPS probe reports per month (15-minute time slice below)

May 2011

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INRIX Smart Driver Network

GPS Vehicle Probe — G

Mobile / Smartphone Probe — M

Driver Generated Report — D

Road Sensor — S

Traffic Camera — C

Accident — !

Construction — !

Event

Stadium Exit
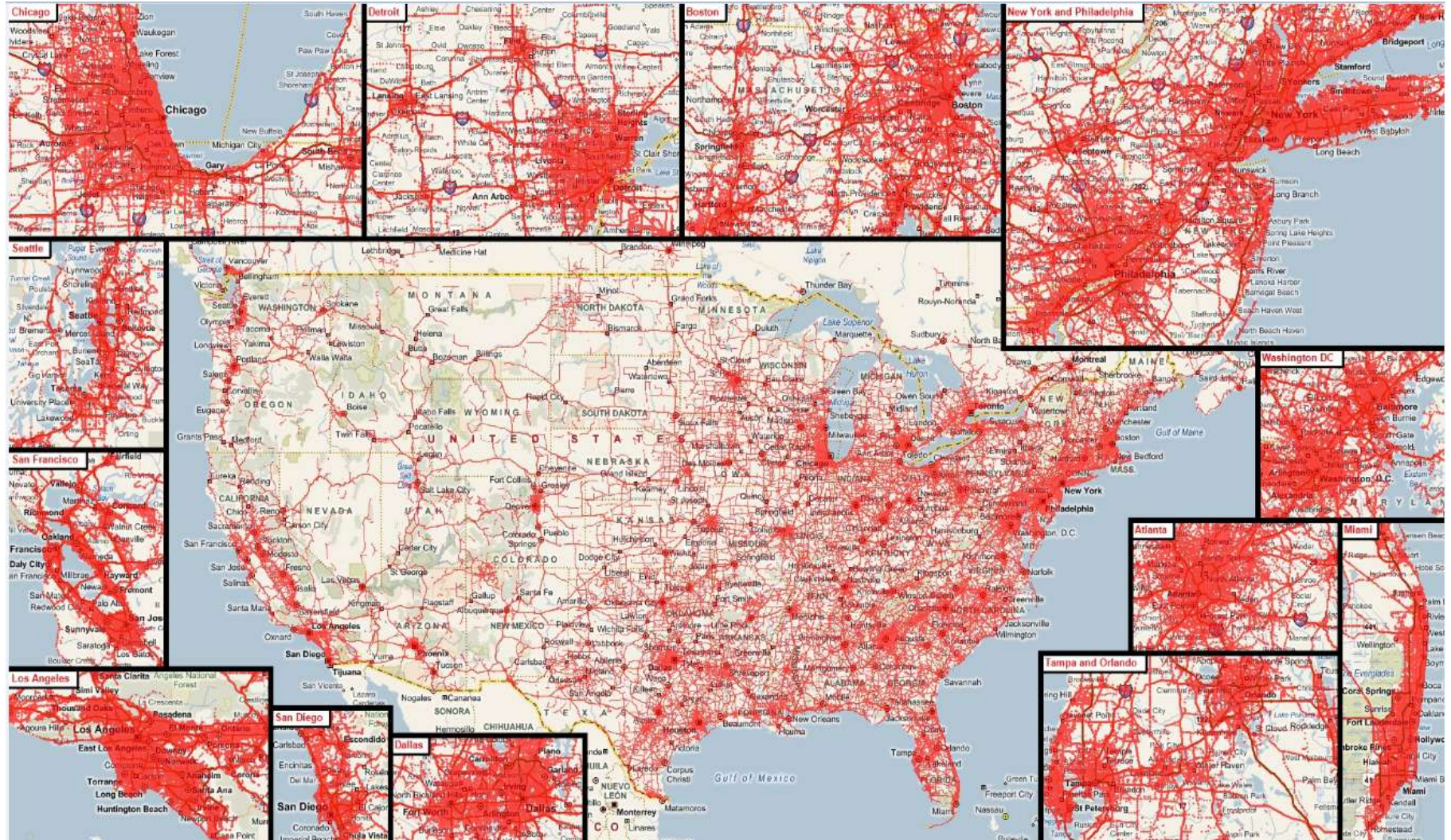
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INRIX Key Customers

Automotive & Portable Navigation

Mobile

Internet & Media

Public Sector

Fleet & Enterprise

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Our Vision

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

INRIX

THANK YOU!

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