WEBINAR SESSION

ATMS TRAFFIC DETECTION

Latest Emerging Technologies and Alternative Approaches



June 13th, 2013

GPS Detection

Introduction - Pete Costello

- Since 2008: INRIX Director Business
 Development, Public Sector covering the Americas
- Starting in 2002: PBS&J (now ATKINS) ITS Group Manager
 - Supported AASHTO's 511 Deployment Coalition and North Carolina 511 Project Manager
- Starting in 1998: ITS America Director, Telematics
 & Special Projects
 - Including traffic management, traveler information, public transit, rural ITS, electronic payment systems, etc.

INRIX Connected Car Vision



Smartphone integration



Daily navigation



Multimodal routing



Road weather



EV range finder



Safety cameras



Fuel prices



Parking availability





Will icy roads impact my route?

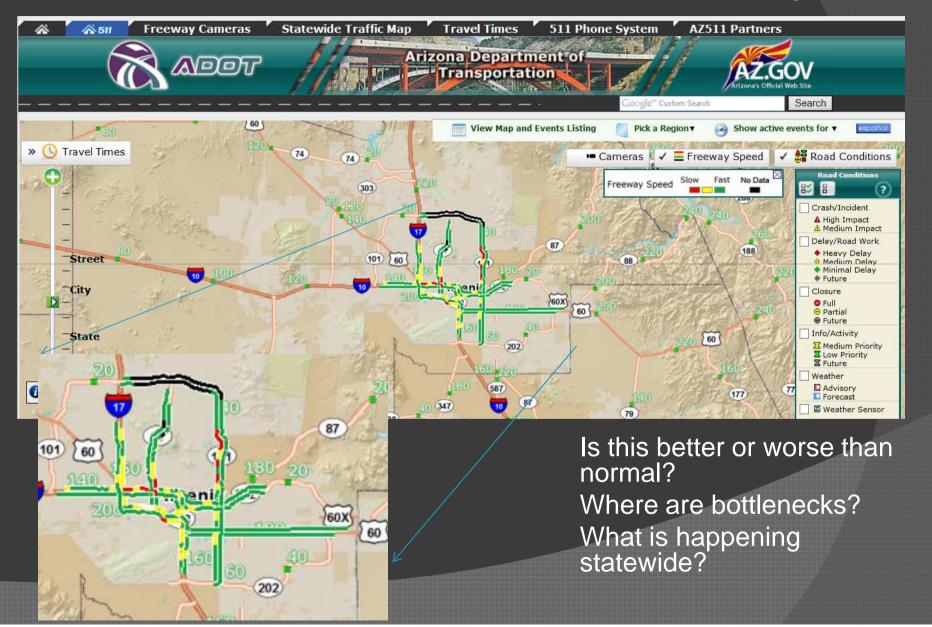
Is there traffic ahead of me?

Where is the cheapest fuel?

Will it be faster to drive to the train?

Is parking available near my destination?

The Problem – Arizona 511 Example



Crowdsource Data Collection



June 29, 2007

INRIX Traffic – Free Apps







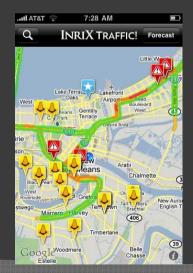












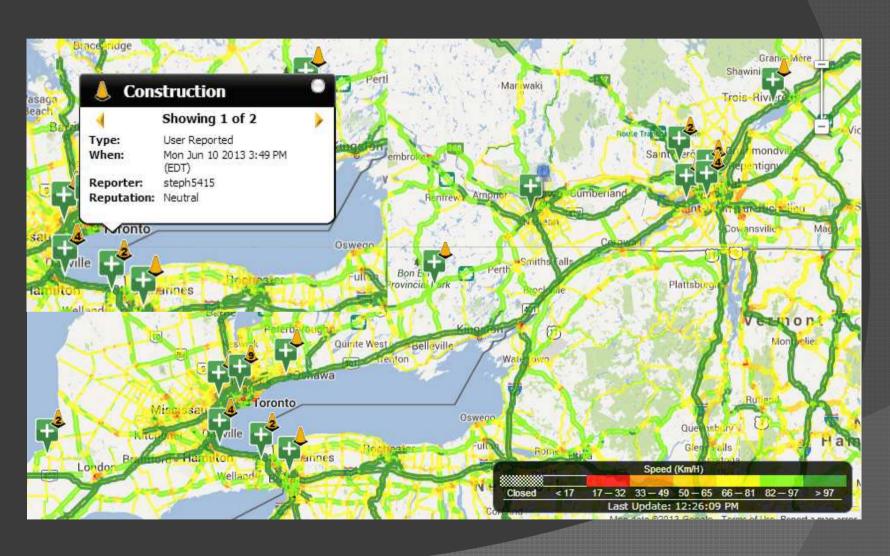






TRUSTe

User Generated Incidents



Crowdsource with Fleets

Long Haul Trucks











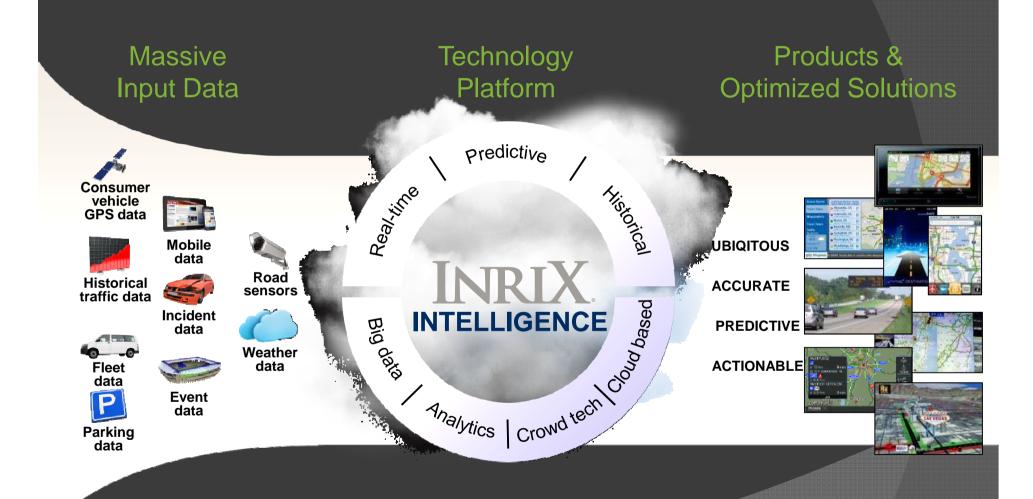
Taxis

Airport Shuttles

Proven Automotive Grade Connected Solutions



The INRIX Traffic Intelligence Platform



The Cloud



INRIX Coverage – Canada

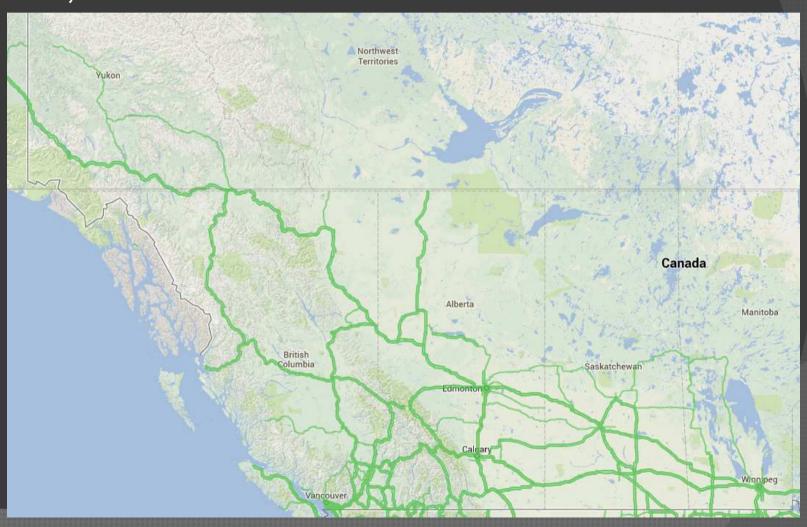
73,327 Centerline Kilometers



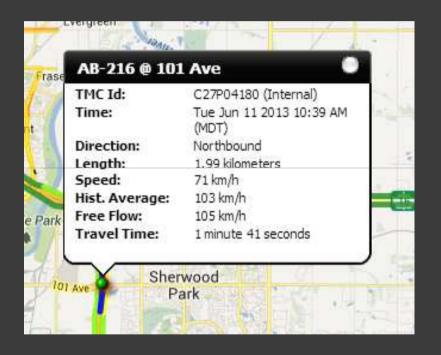
Subset of coverage available for public sector agency staff to view Create an account at INRIXTraffic.US

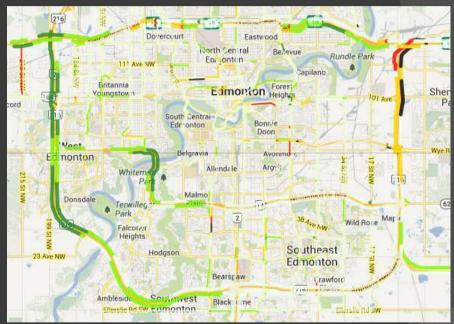
INRIX Coverage - Canada

73,327 Centerline Kilometers



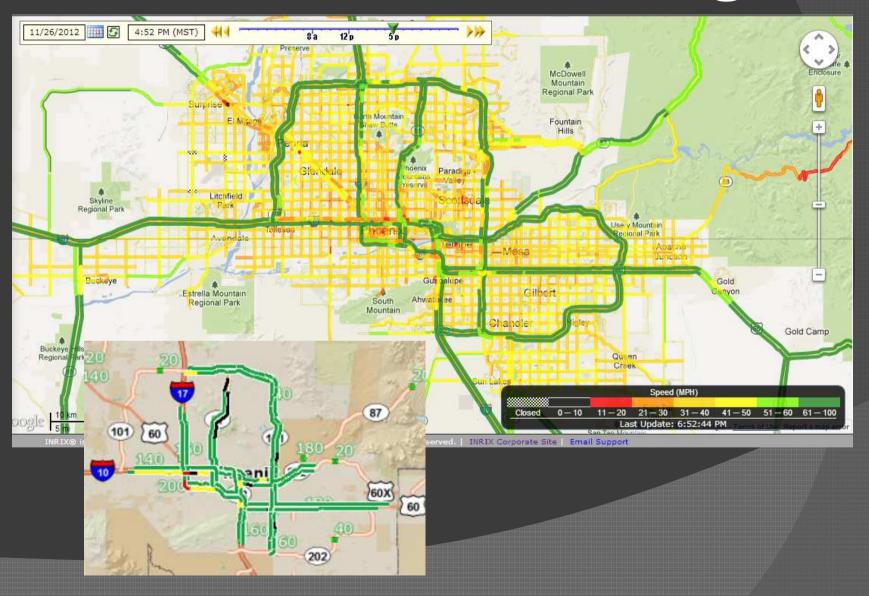
Traffic Speed Data





Comparative Speed

Phoenix Probe Data Coverage



Deployment Fees

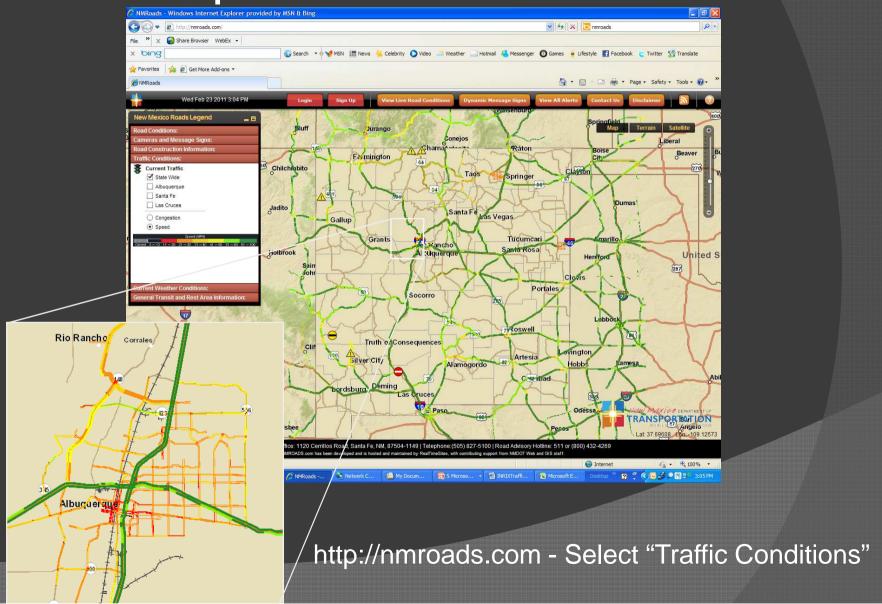
- Freeways \$640 per centerline kilometer per year
- Arterials \$160 per centerline kilometer per year
- Travel times, historical data, Traffic Tile
 Overlays, congestion and weather alerts
 are less

Situational Awareness - NJ

New Jersey Statewide TMC (NJDOT, NJ Turnpike)

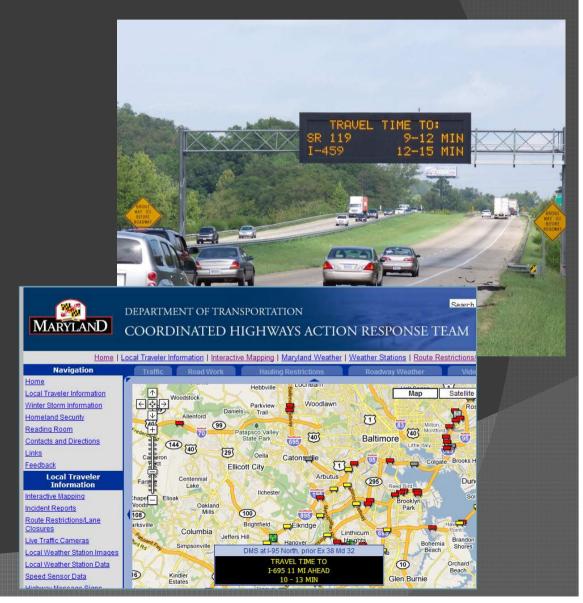
http://i95.inrix.com/I95

Flow Maps on Web Sites - NM



Travel Times on Signs

- South Carolina
- Maryland
- Virginia
- Birmingham, AL
- I-90, WA
- New Jersey
- More on way…



Analytics: Ohio DOT

- Assessing Performance of Winter Operations
 - Time to return to normal travel after major winter storms
 - Reported as "Critical Success Factor" under Operations
- Assessing Urban Area Travel Time Reliability INDEX
 - Number of hours below posted speed between AM and 9PM



Indiana DOT/Purdue

2011 Indiana Interstate Mobility Report

Summary Version



Stephen Remias, Thomas Brennan, Gannon Grimmer, Edward Cox, Deborah Horton, Darcy Bullock







http://docs.lib.purdue.edu/imr/

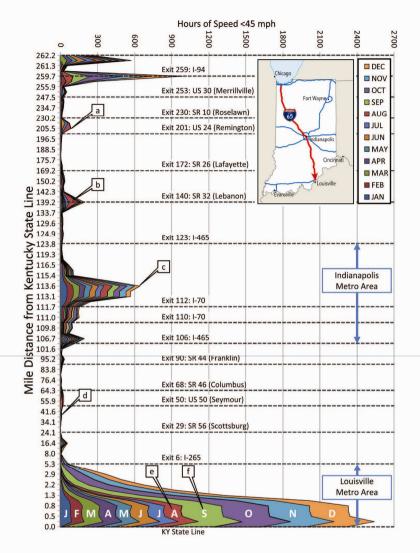


Figure 10. Location of I-65 southbound congestion hours color coded by month.

- a. Construction work zone associated with guardrail and under drain maintenance.
- Construction work zone associated with reconstruction near Lebanon.
- c. Congestion in downtown area of Indianapolis. Notice the relatively uniform magnitude of delay for each month. This is an example of recurring congestion on I-65 inside the I-465 loop.
- d. Rural segment with minimal congestion.
- e. Congestion associated with travel to Louisville during the months of June, July, and August was
- f. On September 9, a section of I-64 was closed resulting in significant diversion of traffic from I-64 to I-65.

INRIX Contact Information

- Pete Costello
- pete@inrix.com
- (202) 550-5795
- www.linkedin.com/in/petecostello

