Wireless Sensor Networks in Transportation

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What are Those Markings in the Pavement?
A More Modern Solution
A Typical Installation

- Repeater: Up to 1000 ft.
- Access Point: Mount 20 ft.
- Wireless Sensors: Up to 150 ft.
Enabling Road Management

On A Very Large Scale

Melbourne M1 Freeway
Vehicle Re-Identification
St Louis Arterial Travel Time System

200 miles and growing
Travel Route Optimization

- Real time
- Accurate
- Reliable
- High praise from traveling public
Performance Measures

Travel time for U.S. 67 - South

Segment 163
SB Eddie and Park to Gravois
Median Travel Time: 177 sec
80th Percentile: 184 sec
90th Percentile: 189 sec
Vehicles in Segment: 44
Length: 1.44 miles
Level of Service: C (Class I)
Last Updated: 12/12/2012 02:21:50 PM PST
New Reality: Data Poor to Data Rich

- Instrument entire regions in weeks
- Rich new set of data
- Near-zero maintenance
Analytical Foundation for Smarter Transportation

Traffic Management
Performance Measures
Traveler Info
Planning & Policy

Analytics

Network & Data Management

Wireless Sensor Networks

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Thank You

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