## Travel Time for Rural

## Construction Work Zones

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## Why provide travel time in work zones?

- Well received by the public;
- Improves travelers' experiences;
- Motorists appreciate information to:
- make route and other planning decisions,
- set their expectations, and
- reduce stress and frustration.


## General Description of I-35 Travel Time System



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## > Provide

 travel time \& congestion information to motorists on rural freeways> Utilize an innovative approach


## General Description of l-35 Travel Time System



- Travel time system, called TrafAlert ${ }^{\text {TM }}$ developed and operated by Renaissance Technologies in Mechanicsburg, Penn)
- Peak period is primarily weekends, defined as Fridays thru Sundays
- Collects traffic data
- Determines \& provides real-time travel time with a desired specified accuracy and latency for this rural application
- Traffic data collected is archived in an xml format \& transferred to MnDOT ownership


## Travel Time Signs



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## Project Background

Destination Innovation Project


## Stand-A-Lone Project


> Unique as it is set up as a stand-a-lone project
> Travel time contractor is also the prime contractor
> Allows direct accountability to successfully attain the project goals/deliverables

## Best Value Procurement

Allows other key factors, to be considered in the evaluation and selection process, to minimize impacts, enhance long-term performance and value of construction:

- Qualifications and Experience
- Schedule
- Quality
- Performance-Based Criteria



## Pay for Performance

$>$ Description
»Benefits
-Drawbacks


## System Details in Plans and Specifications

>Performance Requirements
$>$ Method Requirements
>Basis of Payment


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## Quality Control



## >Cost of Additional Requirements

>Appropriate Levels of Inspection

## Systems Requirements Language

>Provide Clear Easily Understood Requirements
$>$ Define Terms in the Contract


## Travel Time Comparison Method

Floating Car Method


## Monetary Deductions



## Project Website

>Required by Contract
>Linked on Mn511 Website

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## Staff Training and Technology




## Public Feedback


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## System Performance




## Project Goals and Indicators of Success

$>$ Provide travel time \& congestion information to motorists on rural freeways
$>$ Utilize an innovative approach


## Eastbound I-94 Intelligent Work Zone



Work zone
MnDOT and IWZ contractor provide detection

Westbound Section MnDOT and IWZ contractor provide detection SSR provides portable DMS
MnDOT determines and posts travel times

## Eastbound I-94 Intelligent Work Zone



## Westbound I-94 Intelligent Work Zone



## Questions?


http://www.dot.state.mn.us/guidestar/2006_2010/
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## I-94 Speed Data




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