Problem Title :   A Study of Real Time Advance Warning of Highway Speed
Conditions via Multi-Color Dynamic Roadside Map Display

Problem Statement:
Investigate the feasibility of using a real time advance warning of highway speed
conditions via a multi-color dynamic roadside map display. Develop software and a
virtual, yet portable, display to be used in a survey of the driving public as to the most
effective map scenario for using different colors in flashing and non-flashing line
segments representing various traffic speeds. The survey may possible be conducted
through a kiosk at Oklahoma's Tourist Information Centers or other tourist stops.
The map model would be designed to emulate a future network of highway sensors
measuring real time speed conditions. The speed of each segment would be
transmitted to a centrally located computer where a color map would be generated. The
site specific map would then be displayed on a roadside map display located in advance
of each major interchange. Each map generated would only display the speed
conditions for the general highway direction beyond each interchange. The goal would
be to provide information to enhance, but not replace, the existing 3-line dynamic
message signs in Oklahoma City and Tulsa.
This should provide the traveling public advance warnings of reductions in normal traffic
speeds in a more internationally understood format. One scenario could be to
generate a map which would display road segment conditions in highly contrasting
colors for stopped-35mph, 36-50mph and over 50mph, respectively.

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