

# **DYNAMIC TRAFFIC MANAGEMENT EQUIPMENT FOR ROAD NETWORK OPTIMIZATION – STUDY ON THE NATIONAL ROAD NETWORK**

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## **ABSTRACT**

The deployment of intelligent transportation services on the road network is to facilitate the implementation of solutions to minimize congestion, pollutant emissions, improve the safety of goods and travellers or to encourage modal shift. This contributes, thereby limiting the expansion projects or new construction with emphasis on optimization and environmental quality of the existing network, without infringing the alternative modes.

The optimal deployment of these services necessarily requires an analysis of how the considered road network in order to determine with maximum relevance sections or areas that can benefit from this deployment. To ensure quality services, roadside equipment play an essential role in the knowledge of traffic and user's information. Variable Message Signs and traffic counting systems are deployed in accordance to strategies which require measures. Based on several French and European studies, the methodology gives elements for road operators to make the right choice in setting roadside equipment.

The paper presents the approach and some recommendations for the deployment of equipment on the national French road network, involved in the current dynamic traffic management measures like speed management, ramp metering, overtaking ban and dynamic lane allocation.