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Intelligent Transportation Systems Benefits: 1999 Update



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16. Abstract This report continues the emphasis in documenting evaluation results of ITS user services and the benefits these services provide to the surface transportation system. The organization of this report differs from that of the previous ITS Benefits reports. Referenced data are classified into a structure that reflects individual ITS program areas. These program areas include the metropolitan and rural infrastructure, ITS for Commercial Vehicle Operations (ITS/CVO) and Intelligent Vehicle user services. Data within the report reflect empirical results from field operations of deployed systems, supplemented with benefits information based upon modeling studies and statistical studies. This report is intended to be a reference report. It highlights benefits identified by other authors and refers the reader to information sources. The interested reader is encouraged to obtain source documents to appreciate the assumptions and constraints placed upon interpretation of results. It is the intent of the ITS Joint Program Office to update this report periodically.			
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Intelligent Transportation Systems Benefits: 1999 Update

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PREFACE

The Federal Intelligent Transportation Systems (ITS) program came into being as a result of the Intermodal Surface Transportation Efficiency Act of 1991. In the years since, the ITS field has developed from a collection of ideas and isolated applications of technology into an interrelated program with initial projects yielding benefits for the nation's surface transportation system. On 9 June 1998, the Transportation Equity Act for the 21st Century was signed into law. Known as TEA-21, this new legislation succeeded the 1991 act and authorized \$1.3 billion, enabling the continued investment in ITS.

Since December of 1994, the United States Department of Transportation's (U.S. DOT's) ITS Joint Program Office (JPO) has been actively collecting information regarding the impact of ITS projects on the operation of the surface transportation network. This report is a compendium of reported impacts of ITS collected for this effort. Its purpose is to provide the JPO with a tool to transmit existing knowledge of ITS benefits to the transportation professional who may not be well versed in ITS products and services. Also, this report is intended to provide the research community with information on ITS areas where further analysis is required.

This report is intended to be a reference report. It highlights benefits identified by other authors and refers the reader to information sources. The interested reader is encouraged to obtain source documents to appreciate the assumptions and constraints placed upon interpretation of results.

To aid the distribution of the information in this report, this document will be placed in the U.S. DOT's ITS Electronic Document Library at www.its.dot.gov/cyberdocs/welcome.htm as document number 8323.

Many ITS efforts initiated by states, local governments, and private enterprise do not have their benefits or cost documented in this report. Readers who are aware of important ITS benefits and cost information from these and other sources are encouraged to send reference documents to:

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