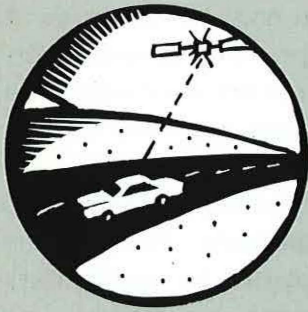


## TECHBRIEF



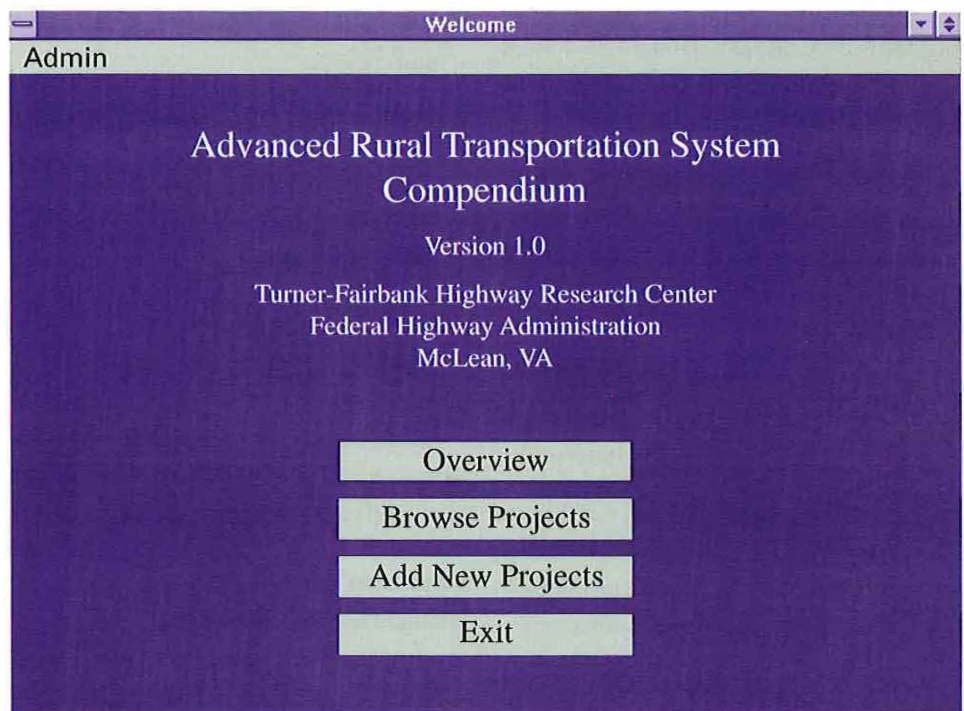
The national Intelligent Transportation Systems (ITS) program includes the development and application of advanced systems upon all parts of the transportation network, including rural areas. The U.S. DOT has developed the Advanced Rural Transportation Systems (ARTS) program to meet the needs of travelers in and through rural areas, as well as the agencies responsible for the operation and maintenance of the rural transportation system. The ARTS program complements the ITS efforts in metropolitan areas and commercial vehicle operations (CVO) by studying ways to best implement technologies that address transportation problems in rural areas.



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# The ARTS Compendium



### Introduction

In order to meet the needs of travelers and the agencies responsible for the operation and maintenance of the rural transportation system, the U.S. Department of Transportation has developed the Advanced Rural Transportation Systems (ARTS) program. This publication describes the ARTS Compendium which is a computer-based clearinghouse of information, providing a manageable way to store and retrieve information about the wide range of ARTS and ARTS-related projects. The ARTS Compendium is a "living" document, additions and modifications are made whenever necessary to keep the database current. Users are encouraged to provide additions and updates through an automated process on line.

The compendium consists of a variety of project types, from planning studies to federally funded field operational tests. The compendium includes projects both within and outside of the ITS umbrella; all have implications within the ARTS program. In addition, not all of the projects listed are strictly rural in nature. For instance, some are vehicle-based, operating independently of the road type, and others are urban with rural applications. The first version includes approximately 170 projects.

The following information is provided for each project included in the ARTS Compendium:

- Project name and lead agency
- Location (city and State) where project is based
- Contact name, affiliation, address, and phone number
- User Service(s): needs/services being met by the project (based on the national ITS Program Plan)
- Applicability: indicates where/how the project is implemented: Rural (R), Urban (U), Small Urban (SU), Corridor (C), CVO (CV), Vehicle-based (V)
- Reference: where project is described (may appear in more than one reference, only one is listed)
- Critical Program Area(s) (CPA's): a combination of similar attributes, needs, or services around which ITS solutions will be developed
- Project status: Complete (project is finished); In progress (work is being done on the project); In use (the technology examined by the project is in commercial use); Preliminary stage (project is in early planning/pre-proposal stage); Unknown (status is not known).
- Project cost (if provided)
- Level of Complexity: low, medium, or high based on technology used and number of parties involved in the project. (Only provides rough estimate of complexity.)
- Project description: a brief summary of the project's scope

Both CPA's and User Services address a transportation need or service. User Services have been included to illustrate how the ARTS projects fit into the national ITS program architecture.

Seven CPA's have been recognized in the ARTS program:

1. Traveler Safety and Security
2. Emergency Services
3. Tourism and Travel Information Services
4. Public Traveler Services/Public Mobility Services
5. Infrastructure Operations and Maintenance
6. Fleet Operations & Maintenance
7. Commercial Vehicle Operations

Table 1 provides a summary of the number of projects in the compendium associated with each CPA.

### How can the ARTS Compendium be used?

The ARTS Compendium is a useful tool for anyone interested in planning or implementing ITS projects in rural

areas. By providing a comprehensive listing of ARTS and ARTS-related projects, the compendium can be used to assist with research on what has been done to meet a particular need or provide a particular service.

Users can browse the database and use various searches to identify projects of interest. Users can tailor the searches to pinpoint the most applicable projects. The compendium also provides an opportunity for users to add projects to or modify projects in the database.

### Where can the ARTS Compendium be found?

The ARTS Compendium can be found on the U.S. DOT rural ITS internet web page at <http://www.its.dot.gov/rural>.

### Contact Information

For more information, contact either Paul Pisano, (703) 285-2498, or Eileen Singleton, (703) 285-2452, of FHWA.

**TABLE 1.**

Summary of Projects by Critical Project Status

Project Status	Critical Program Areas							TOTAL
	1	2	3	4	5	6	7	
	Traveler Safety & Security	Emergency Services	Public Tourism & Travel Info. Services	Traveler Svcs/Public Mobility Services	Infra-structure O&M	Fleet O&M	Commercial Vehicle Operations	
Complete	14	7	7	9	13	6	10	66
In Progress	29	9	11	13	20	16	15	113
In Use	20	5	5	8	25	4	3	70
Preliminary Stage	8	6	7	4	8	3	5	41
Unknown	6	0	6	6	3	6	5	32
<b>TOTAL</b>	<b>77</b>	<b>27</b>	<b>36</b>	<b>40</b>	<b>69</b>	<b>35</b>	<b>38</b>	<b>322</b>

NOTE: Numbers in each CPA column represent the total number of projects associated with that CPA. Each project can be associated with more than one CPA, and this is reflected in the table. As a result, the total shown in the table, 322, is greater than the actual number of projects, approximately 170.