

# National Architecture For The Intelligent Transportation System (ITS):

## A Workshop on Rural Issues

*Sponsored by:*

**Advanced Rural  
Transportation Systems  
Committee (ARTS)  
of ITS America, U.S.  
Department of Transportation,  
U.S. Department of Energy**

**Idaho Falls, Idaho  
June 15-16, 1995**



## National Architecture For The Intelligent Transportation System: A Workshop on Rural Issues

**Purpose:** The purpose of the workshop is to bring together stakeholders from rural areas to discuss the implications of the national architecture for the ITS and to identify significant rural issues to be addressed by developers.

**Background:** The Intelligent Transportation System Program is a partnership of Federal, State, and Local Governments, Academia, and private industry to bring advanced technology to public, private, and commercial transportation services. The benefits of the program are to increase the safety and efficient use of all transportation modes and to reduce the need for additional infrastructure to support increased usage.

The USDOT has developed a program plan that defines bundles of user services that provide specific functionality. These services, such as Travel and Transportation Management, Travel Demand Management, Commercial Vehicle Operations, Emergency Management, and Advanced Vehicle Control and Safety Systems will utilize current and emerging technology in electronics, computers, and communications to realize the potential benefits of ITS. The fundamental mechanism that allows these services to

operate as a system and across state and regional areas is the system "architecture".

### The National ITS Architecture

The U.S. Department of Transportation is funding the conceptual design of the ITS system architecture. This "architecture" will consist of hardware, software, and telecommunications technology and standards that will provide the backbone and guidelines for user services implementation and operation. Two consortia have been given the roles to develop requirements and design for this architecture. Loral Systems and Rockwell Corporation will respectively lead the consortia.

### The Rural Issues

The Advanced Rural Transportation System Committee has as its focus the specific needs and issues of rural communities and regions for integration into the implementation of the ITS. Architecture developers need to address these needs in the conceptual stage to provide full and timely access to ITS services as they evolve. Long distances, diverse topology, sparse population, and the nature of traffic are a few "rural" characteristics. These characteristics create demands on the system architecture and also on the implementation process. It is these issues that will be discussed at this workshop.

## PRELIMINARY AGENDA

*Thursday, June 15*

**8:00 AM - Overview of ITS and the ARTS Committee**

**8:30AM - Introduction of ITS Architectures**

**9:00AM - Architecture Teams' Perspective**

**11 :00AM - ARTS Concerns**

**Lunch - Keynote Speaker Planned**

**1:00 PM - Open Panel Discussion:**

**Panel Members representing bundled user services and Workgroup leaders**

**3:00 PM -Floor Discussion And Workgroup Assignment**

*Friday, June 16*

**8-10 AM - Workgroup Activity to Develop Position Statements From Represented Rural Stakeholders**

**11:00 AM - Reporting of Workgroups**

**12:00 Noon - Adjourn**

### Who should attend?

The workshop is seeking active participation by stakeholders in rural environments that will be affected by the National ITS Architecture. Stakeholders would include professionals in transportation, law enforcement, emergency response, and federal agencies as well as citizen-users.

### Where Will It Be?

The workshop will be held at the Department of Energy's Idaho National Engineering Laboratory Engineering Research Office Building in Idaho Falls, Idaho. Some Sessions may also be held at the adjoining University Place Campus of Idaho State and University of Idaho facilities.

### Inquiries can be directed to:

Robert Polk, (208)-525-0663 or rep@inel.gov

### Registration Instructions:

Please fill out the attached form, fold and staple with return address showing, and mail or fax to: **Theresa Ward**

Transportation InFrastructure Department  
Idaho National Engineering Laboratory  
2151 N. Blvd, MS 2210  
P.O. Box 1625  
Idaho Falls, Idaho 834 15  
or Fax: 208-526-0690

Exhibit/Poster space is also available.

A \$10.00 charge will be assessed at registration to pay for a catered lunch and break refreshments.

### Travel, Locations, and Accommodations:

To assist you in making travel arrangements, a map is provided of the locations of the major hotels, INEL facilities, and the Airport.

