

Federal Highway Administration**[FHWA Docket No. 94-26]****Availability of Documentation From the National Intelligent Vehicle Highway Systems (IVHS) Architecture Development Program; Request for Participation in Public Forums****AGENCY:** Federal Highway Administration (FHWA), DOT.**ACTION:** Notice; request for comments.

SUMMARY: The Department of Transportation is making publicly available the documentation from the first phase of the National IVHS Architecture Development Program. An independent Phase I Summary Report will be made publicly available as well. Comments on these materials are requested from all who choose to review them. This notice also announces a series of regional forums to present these first phase results. The comments received through this announcement and at the forums will influence upcoming program decisions that shape the National IVHS Architecture in the second and final phase of the program.

DATES: Comments on the documents made available through this notice must be received by November 21, 1994. Late comments will be considered to the extent practicable.

The forums are scheduled as follows:

1. November 7, 1994, 8:00 a.m. to 4:30 p.m., Seattle, Washington.
2. November 8, 1994, 8:00 a.m. to 4:30 p.m., San Francisco, California.
3. November 8, 1994, 8:00 a.m. to 4:30 p.m., Denver, Colorado.
4. November 10, 1994, 8:00 a.m. to 4:30 p.m., Atlanta, Georgia.
5. November 10, 1994, 8:00 a.m. to 4:30 p.m., Los Angeles, California.
6. November 15, 1994, 8:00 a.m. to 4:30 p.m., College Station, Texas.
7. November 15, 1994, 8:00 a.m. to 4:30 p.m., Washington, D.C.
8. November 17, 1994, 8:00 a.m. to 4:30 p.m., Kansas City, Missouri.
9. November 17, 1994, 8:00 a.m. to 4:30 p.m., New York, New York.
10. November 18, 1994, 8:00 a.m. to 4:30 p.m., Chicago, Illinois.
11. November 18, 1994, 8:00 a.m. to 4:30 p.m., Boston, Massachusetts.

ADDRESSES: Submit written requests for the architecture documents and the Phase I Summary Report by October 3, 1994, to Mr. George Beronio, Federal Highway Administration (HTV-10), 400 Seventh Street, SW., Washington, DC 20590. Requests for the architecture documents must be accompanied by a check made payable to the FHWA in the amount of \$225.00 as reimbursement for reproduction and shipping. There is no fee for the Phase I Summary Report. Please note that individual documents subsets of this package of documents

(other than the Phase I Summary Report) are not available through this announcement.

Submit written, signed comments on the documents and Summary Report to the FHWA Docket No. 94-26, Room 4232, HCC-10, Office of Chief Counsel, Federal Highway Administration, 400 Seventh Street SW., Washington, DC 20590. All comments received will be available for examination at the above address from 8:30 a.m. to 3:30 p.m., e.t., Monday through Friday, except Federal holidays. Those desiring notification of receipt of comments must include a self-addressed, stamped postcard.

FOR FURTHER INFORMATION CONTACT: Mr. George Beronio, Office of Traffic Management and Intelligent Vehicle Highway Systems Applications, phone (202) 366-6111, fax (202) 366-8712, Federal Highway Administration, HTV-10, 400 Seventh Street, SW., Washington, DC 20590. Office hours are from 7:45 a.m. to 4:15 p.m., e.t., Monday through Friday, except Federal holidays.

SUPPLEMENTARY INFORMATION: The goal of the National IVHS Architecture Development Program is to document, by the summer of 1996, a nationwide framework for implementation of IVHS. The architecture will help achieve national compatibility of IVHS technologies and systems while allowing for regional flexibility in building actual systems. This national architecture will also integrate the broad range of services available to users of IVHS to achieve efficiencies in the use of communications and infrastructure resources, while maintaining enough openness in the system to foster a rich market for products and services that allows for innovation, expansion, and modernization over time.

Teams headed by Hughes Aircraft Company, Loral Federal Systems Group, Rockwell, and Westinghouse Electric Corporation were selected in September 1993 to independently develop four alternative system concepts, or "architectures," for a nationwide IVHS. The program is proceeding in two phases. Phase I, which will conclude in December 1994, has involved the definition and preliminary analysis of alternative concepts. It is the documentation products of this effort that are being made available through this announcement. The most promising concepts will be continued into an 18-month Phase II, which will focus on detailed analysis of these concepts and resolution of differences such that a single consensus architecture is produced and documented.

A complete set of 12 documents from each of the four study teams participating in this first phase of the architecture development will be made publicly available in mid-October 1994. A Phase I Summary Report containing educational background material,

overviews of the four architectures, and additional detail on the implications of each approach will also be made available shortly thereafter.

The Phase I products available through this announcement are as follows: (1) Mission Definition, a discussion of each team's goals and philosophy, with a technical discussion of operational constraints each team perceives; (2) Vision Statement, a non-technical narrative depiction of the teams' conception of their architectures over the next 20 years in urban, inter-urban, and rural contexts; (3) Logical Architecture, a set of diagrams and textual statements describing the relationship between each architecture's functions and its information needs; (4) Physical Architecture, a further set of diagrams and specifications that transpose the logical architecture components onto the physical systems that make up IVHS; (5) Traceability Matrix, which ensures that all required high-level IVHS services are accounted for at the lowest levels of the architecture (both logical and physical); (6) Evolutionary Deployment Strategy, a three-tiered set of temporal snapshots (at 5, 10, and 20 years) of the architecture, and how the teams envision the progression from the present towards their final vision at the 20-year mark; (7) Architecture Evaluation Plan, which describes the method(s) used by each team in the analysis of its architecture; (8) Initial Cost Analysis, an attempt at pricing the various ways in which IVHS will be delivered through products and services, including a market analysis and suggestion of how "service packages" could be marketed; (9) Feasibility Study (including risk analysis) exploring the various technical and institutional risks to which each architecture is subject, and how each team proposes to mitigate these risks; (10) Analysis of Data Loading Requirements, exploring the wire and wireless communications demands on the architecture; (11) Initial Performance and Benefits Summary, a discussion of the ways in which each architecture contributes to the broader goals of IVHS; and (12) Preliminary Evaluation Results Summary, detailing the results of analysis, in particular the simulation modeling.

DOT is interested in the opinions of the public, industry, all levels of government, public and private transportation agencies, and other stakeholder organizations who review these documents. Specifically, DOT is interested in comments regarding the technical feasibility, user acceptability, and general viability of the four proposed architectures. Those who wish to provide comments only on the Phase I Summary Report are encouraged to do so as well.

Note:

• summary
report →

• regional
forums →

• Public docket
FHWA 94-26
(see page 1) ↘

• late comments
WILL BE
ACCEPTED

The entire set of documents (except the Phase I Summary Report) can be obtained for \$225.00, to cover the cost of reproduction and shipping. Those who wish to view the documents at no cost may do so at multiple locations throughout the United States; for dates of availability and locations nearest to you, contact the FHWA at the address listed above under **FOR FURTHER INFORMATION CONTACT**. The Phase I Summary Report will be sent in late October, free of charge, to all who respond to this announcement. The Phase I Summary Report will also be available to all who attend the public forums.

A series of 11 public forums will be held during the second and third weeks of November 1994 to present the architectural approaches developed in the first phase of the architecture program, and to allow for stakeholder input based on the information presented. Dates and general locations of these forums are listed above under **DATES**. More information on these regional forums, including specific locations, may be obtained from the FHWA contact listed above.

The comments received as a result of this announcement, as well as the information obtained during the upcoming series of public forums, will be used in the process of selecting which of the four architecture concepts will continue into Phase II of the program. This second phase will begin in early 1995.

Authority: 23 U.S.C. 315; 49 CFR 1.48; Pub. L. 102-240, Secs. 6051-6059, 105 Stat. 1914, 2189-2195.

Issued on: September 15, 1994.

Rodney E. Slater,

Federal Highway Administrator.

[FR Doc. 94-23298 Filed 9-20-94; 8:45 am]

BILLING CODE 4910-22-P