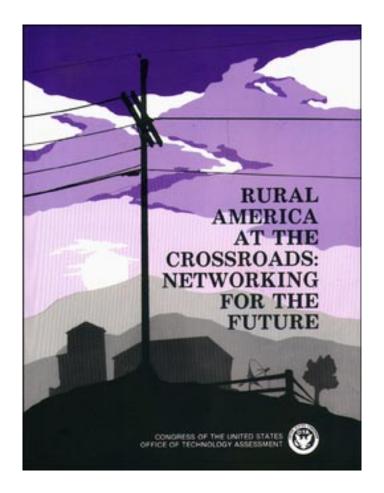
## Rural America at the Crossroads: Networking for the Future

**April** 1991

OTA-TCT-471 NTIS order #PB91-198135



#### Recommended Citation:

U.S. Congress, Office of Technology Assessment, *Rural America at the Crossroads: Networking for the Future, OTA-TCT-471* (Washington, DC: U.S. Government Printing Office, April 1991).

For. sale by the Superintendent of Documents
U.S. Government Printing Office, Washington, DC 20402-9325
(order form can be found in the back of this report)

#### **Foreword**

Rural America is at the proverbial crossroads. Many rural communities show signs that raise concern for their future: loss of economic vitality, a relative decline in income, high unemployment, low workforce participation, and an exodus of talent. Advances in communication and information technologies, however, hold promise for rural America, by reducing the barriers of distance and space that have disadvantaged rural areas. Rural businesses can now link to other businesses or access major markets, even in other countries, just as readily as those in urban areas, while still enjoying the many distinctive benefits of rural living.

This study explores the role that communication technologies can play in securing rural America's future. It develops several policy strategies and options to encourage such development. The study was requested by the Joint Economic Committee of Congress and Senators Charles E. Grassley and Orrin G. Hatch.

OTA gratefully acknowledges the contribution of the advisory panel, workshop participants, contractors, reviewers, and many others who provided information, advice, and assistance. However, OTA bears sole responsibility for the contents of this report.

JOHN H. GIBBONS

Director

### Rural America at the Crossroads: Networking for the Future Advisory Panel

George Connick, *Chairman*President, University of Maine at Augusta

George Calhoun Senior Vice President

International Mobile Machines Corp.

Lloyd Callihan

School Bus Driver and Volunteer Ambulance

Driver and Fireman

Wapato, WA

Don Dillman Director

Social and Economic Sciences Research Center

Washington State University, Pullman

Wilbur Hawkins Executive Director

Lower Mississippi Delta Commission

Ronald Lehr

Former Commissioner

Colorado Public Utilities Commission

Karen Merrick Former Mayor Gutenberg, Iowa

Edwin Parker President

Parker Telecommunications

Joseph Pelton Director

**Graduate Telecommunications Program** 

**Engineering Center** 

University of Colorado, Boulder

**Everett Rogers** 

**Professor of Communications** 

Annenberg School of Communications University of Southern California

William Schaphorst General Attorney

U.S. West Communications

Gail Schwartz Commissioner

State of New York Public Services Commission

Sharon Strover Assistant Professor

Department of Radio, TV, and Film University of Texas at Austin

Margaret Trevathan Former Director

Calloway County Library, Kentucky

Luther Tweeten

Professor of Economics

Department of Agricultural Economics and

Rural Sociology Ohio State University

Keith N. Ware Manager

Emery County Telephone Co.

NOTE: OTA appreciates and is grateful for the valuable assistance and thoughtful critiques provided by the advisory panel members. The panel does not, however, necessarily approve, disapprove, or endorse this report. OTA assumes full responsibility for the report and the accuracy of its contents.

# Rural America at the Crossroads: Networking for the Future OTA Project Staff

John Andelin, Assistant Director, OTA Science, Information, and Natural Resources Division

James W. Curlin, Telecommunication and Computing Technologies Program Manager

Linda Garcia, Project Director

Sherry Emery, Analyst

Fred Wood, Senior Associate

Mark Young, Research Analyst

Ritchie Chin, Contractor

Administrative Staff
Liz Emanuel, Office Administrator

Karolyn St. Clair, Secretary

JoAnne Price, Secretary

#### **Contractors**

Sanford Berg Professor

Public Utilities Research Center University of Florida, Gainesville

Ted K. Bradshaw

Associate Research Sociologist Institute of Government Affairs University of California, Berkeley

George M. Calhoun Senior Vice President

International Mobile Machines Corp.

Philadelphia, PA

Joseph F. Coates Consultant J.F. Coates, Inc. Washington, DC

Larry Darby Consultant Darby Associates Washington, DC

Bruce L. Egan

Affiliated Research Fellow

Center for Telecommunications and

Information Studies Columbia University

Don Hadwiger

Professor of Political Science

Iowa State University

Dale Hatfield President

Hatfield Associates, Inc.

Boulder, CO

Heather Hudson

Director

Telecommunications Management

and Policy Program

McLaren College of Business University of San Francisco

Abbe Mowshowitz

Consultant

Technology Impact Research Inc.

Joseph Pelton

Director

Graduate Telecommunications Program

**Engineering Center** 

University of Colorado, Boulder

Thomas Michael Power Consulting Economist Economics Department University of Montana

Louis E. Swanson

Associate Professor of Sociology

University of Kentucky

Frederick Williams

Center for Research on Communication Technology

and Society

College of Communication

University of Texas at Austin

Paul Yarbrough

Director

Rural Communication Research Program

Cornell University