

AGENCY FOR INTERNATIONAL DEVELOPMENT

PROJECT DATA SHEET

1. TRANSACTION CODE A = Add C = Change D = Delete
 Amendment Number 5
 DOCUMENT CODE 3

2. COUNTRY/ENTITY Interregional PD-AAM-861
 4. BUREAU/OFFICE S&T, ED 10

3. PROJECT NUMBER 931-1109
 5. PROJECT TITLE (maximum 40 characters) Applications Educational Technology: Studies

6. PROJECT ASSISTANCE COMPLETION DATE (PACD)
 MM DD YY
09 30 87

7. ESTIMATED DATE OF OBLIGATION (Under "B:" below, enter 1, 2, 3, or 4)
 A. Initial FY 77 B. Quarter C. Final FY 87

8. COSTS (\$000 OR EQUIVALENT \$1 =)

| A. FUNDING SOURCE | FIRST FY | | | LIFE OF PROJECT | | |
|------------------------|--------------|--------|--------------|-----------------|--------|----------|
| | B. FX | C. L/C | D. Total | E. FX | F. L/C | G. Total |
| AID Appropriated Total | | | | | | |
| (Grant) | (1,606) | () | (1,606) | () | () | (6965) |
| (Loan) | () | () | () | () | () | () |
| Other U.S. | | | | | | |
| 1. | | | | | | |
| 2. | | | | | | |
| Host Country | | | | | | |
| Other Donor(s) | | | | | | |
| TOTALS | 1,606 | | 1,606 | | | |

9. SCHEDULE OF AID FUNDING (\$000) 6965

| A. APPROPRIATION | B. PRIMARY PURPOSE CODE | C. PRIMARY TECH. CODE | | D. OBLIGATIONS TO DATE | | E. AMOUNT APPROVED THIS ACTION | | F. LIFE OF PROJECT | |
|------------------|-------------------------|-----------------------|---------|------------------------|---------|--------------------------------|---------|--------------------|---------|
| | | 1. Grant | 2. Loan | 1. Grant | 2. Loan | 1. Grant | 2. Loan | 1. Grant | 2. Loan |
| (1) | 600 | 640 | | 3,845 | | 1568 | | 6965 | |
| (2) | | | | | | | | | |
| (3) | | | | | | | | | |
| (4) | | | | | | | | | |
| TOTALS | | | | 3,845 | | 1568 | | 6965 | |

10. SECONDARY TECHNICAL CODES (maximum 6 codes of 3 positions each)
 11. SECONDARY PURPOSE CODE
 12. SPECIAL CONCERNS CODES (maximum 7 codes of 4 positions each)
 A. Code
 B. Amount

13. PROJECT PURPOSE (maximum 400 characters)
 To assist in the effective adaptation of existing knowledge and experience to projects that make use of educational technologies and communication methods in development.

14. SCHEDULED EVALUATIONS
 Interim MM YY 12 84 Final MM YY 06 87
 15. SOURCE/ORIGIN OF GOODS AND SERVICES
 000 941 Local Other (Specify)

16. AMENDMENTS/NATURE OF CHANGE PROPOSED (Tab to page 1 of a _____ page PP Amendment)
 1. To extend Project Assistance Completion Date through September 30, 1987.
 2. To increase life-of-project cost by \$1,568,000 for a total LOP of \$6,965,000.

17. APPROVED BY
 Signature: David Spague
 Title: Acting Director, S&T, ED
 Date Signed: MM DD YY 15 21 83
 18. DATE DOCUMENT RECEIVED IN AID/W, OR FOR AID/W DOCUMENTS, DATE OF DISTRIBUTION
 MM DD YY 1

PROJECT AUTHORIZATION

Name of Entity: Worldwide

Name of Project: Educational Technology: Studies and Applications

Number of Project: 931-1109

1. Pursuant to Section 105 of the Foreign Assistance Act of 1961, as amended, the Studies and Applications: Communications Technology Project of the Office of Education, Bureau for Science and Technology was authorized on 20 July 1979. That authorization is hereby amended as follows:

a. Extend authorized fiscal year completion date by four (4) years from September 30, 1983 through FY 87.

b. Increase life-of-project by \$1,568,000 (including \$455,000 of proposed Mission funds) from \$5,397,000 to \$6,965,000.

2. The authorization cited above remains in force except as hereby amended.

Signature: Ruth K. Zagorin
Ruth K. Zagorin
Agency Director Human Resources

Date: JUN 1 1983

May 26, 1983

MEMORANDUM

TO: S&T/ED, Ruth Zagorin
FROM: S&T/ED, David Sprague *DS*
SUBJECT: Educational Technology: Studies Applications (931-1109)

A. Introduction and Summary

This is an amendment to the formerly entitled project "Studies and Applications in Communications Technology - 931-1109.

This amendment expands and extends this field support project, which provides technical assistance through a variety of mechanisms to Missions considering using educational technology and communications in their programs. The life-of-project will be extended from 09/30/83 to 09/30/87. The life-of-project cost will be increased from \$5,397,000 to \$6,965,000.

Attachment 2. lists FY 82 activities and summarizes anticipated work in FY 83.

Activities supported by this amendment are listed below.

B. Purpose

The purpose is to assist Missions in the application of educational technologies to primary education and other development problems. It does so through two mechanisms: through providing expertise to assist Missions in the development of programs and projects; and, through carrying out experimental applications in the field. The extension of Project 931-1109 will enable S&T/ED to continue to provide the Agency with resources to make effective use of educational and communication technology in development. This effort is congruent with S&T's and the Agency's emphasis on research for development applications and on applications of successful AID R&D activities.

C. Objectives

The first objective of this Project Amendment is to enable S&T/ED to continue to provide Missions (and IDCs) with technical consultation:

- o to analyze potential applications of proven educational technology applications such as instructional radio, for education as well as agriculture, health, training, etc.;

3

- o to inform Mission and host-country personnel with the knowledge and skills required for successful applications of educational technology;
- o to provide technical advice - social and behavioral scientists, content specialists, educational technology and development communications specialists - to missions engaged in education or with educational problems in other sectors;

The second objective of the Project Amendment is to conduct field research on the effectiveness of LDC applications of state-of-the-art educational technology. In particular, research conducted will seek:

- o to examine new information technology systems, such as: microcomputers for education management and classroom applications; hand-held, portable electronic teaching aids such as Speak and Spell and Speak and Math, audio-graphics, etc., for successful LDC applications;
- o to determine the impact of these technologies on educational systems - both in terms of the organizational structure and student performance through field tests;
- o to arrive at an understanding of cost-effectiveness for various applications and settings;
- o to document transfer of technology issues arising from applications in various settings.

The third objective of the Project Amendment is to provide a mechanism for Mission-funded project design and planning and field research activities to be accomplished efficiently and in a cost-effective manner.

D. Outputs

1. Planning and Design Activities

Feasibility studies designed to assist missions with educational technology applications in education and other sectoral development projects where missions funds are not available or not sufficient to meet mission planning needs.

2. Training Workshops, Seminars, and Teleconferencing

a. Short-term field training for mission (where applicable) and host-country personnel conducted through workshops/seminars requested by missions.

b. A limited number of experimental consultations and seminars will be conducted where travel is substituted by telephone conference.

3. Instructional Materials

a. Handbook on Classroom Applications of Educational Technology

This handbook would describe the experience of various LDC applications of educational technology - from hand-held Speak and Spells to interactive video discs. The handbook would provide information to planners seeking to arrive at the most cost-effective technologies for education development projects.

b. Interactive Audio Tele-Communications Handbook

This handbook would cover the special characteristics of interactive tele-communications and provide planning and implementation guidelines for a variety of audio applications, such as tele-conferences, distance teaching, seminars, consultation, etc.

c. Handbook on Planning Media-Based Campaigns

This would build on the Basic Village Education and Mass Media and Health Practices experiences, incorporating other U.S. and other developing countries' experience as appropriate. The handbook would cover the principal steps in campaign design, implementation and evaluation, using examples from BVE and MMHP. This handbook would be useful in seminars.

4. Field Research Studies

a. One pilot project will involve the application of off-the-shelf portable electronic teaching aids - Speak and Spell, Speak and Read, and Speak and Math - in both formal education and nonformal literacy/numeracy training. This activity will begin in FY 1983 responding to an unsolicited proposal from the University of Massachusetts. (\$120,000 for Phase One).

b. A second pilot program to begin in FY 1984, will examine the effectiveness of other kinds of instructional devices in teaching basic skills in the LDC classroom. These will typically be microprocessor-based devices. From this field research, SAT/ED hopes to find:

- o practical constraints to the educational utilization of instructional devices
 - o the educational levels for which the instructional devices are most cost-effective
 - o the level of students who make the greatest gains
 - o methods of classroom organization required
 - o methods for integrating microprocessor-based instruction with other classroom inputs
 - o which software is most successful in teaching basic skills
 - o needs for local adaptation
 - o the optimum number of students per device
 - o whether gains in achievement and attendance are sufficient to warrant the cost
- c. Other studies in state-of-the-art learning technologies as appropriate.
- d. Demonstration educational technology projects jointly funded with Missions

It is planned to carry out additional pilot projects jointly funded by Missions, to encourage introduction of appropriate educational technology applications which will lead to, and help guide, larger Mission activities.

E. Summary and Proposed Obligation Schedule:

1. Summary
 - a. Existing Project Authorization is \$5,397,000.
 - b. Of this amount \$3,845,000 has been obligated through 1982.
 - c. FY 83 obligation is \$350,000.
 - d. LOP costs, through this amendment, are increased by \$1,568,000.
 - e. New LOP total is \$6,965,000.
2. Obligation Schedule*

NOTE: FOR ALL FIELD SUPPORT ACTIVITIES, S&T/ED WILL EXPECT MISSION FUNDING FOR TRAVEL AND PER DIEM EXPENSES.

STUDIES IN FACILITATING LEARNING

October 1981 - December 1982
 Master Schedule of Completed and Projected
 Technical Assistance Missions

ATTACHMENT # 2

| AID Country/Bureau | Purpose of Technical Assistance Requested | Number of Consultants | Name of Consultant(s) | Scheduled Dates |
|--------------------|--|-----------------------|---|-----------------|
| Honduras | To conduct a seminar on management aspects of national diarrheal disease control with special emphasis on mass communications | 1 | William Smith | October 81 |
| Pakistan | To conduct a feasibility study on use of radio in addressing the management, logistics, training, continuing education needs of mid-level and community health workers in Pakistan | 3 | Heather Hudson Albert Fredette Stanley Burns | January 82 |
| Ecuador | To study two-way radio in support of health services and develop pilot project proposal | 2 | Heather Hudson George Gehr | March 82 |
| Botswana | To conduct a seminar to plan a center for development communication and a workshop radio production and formative evaluation | 4 | Allan Kulakow Esta de Fossard Klaus Galda Joyce Hill | April/May 82 |
| Pakistan | To conduct a study of agricultural communications in Pakistan and develop potential project for USAID/P support | 2 | Larry Heiller William Sweeney | April/May 82 |
| The Gambia | To hold a seminar on radio program planning and to conduct a workshop on radio production and evaluation | 3 | William Smith Esta de Fossard Al Hundley | June 82 |

9

| AID Country/Bureau | Purpose of Technical Assistance Requested | Number of Consultants | Name of Consultant(s) | Scheduled Dates |
|--------------------|---|-----------------------|---|----------------------|
| Zimbabwe | To assess the potential application of a management software program developed by the Academy for the planning needs and activities of the Department of Planning, Ministry of Education and Culture | 1 | Kurt Moses | July/August 82 |
| Ecuador | To plan a workshop on use of media in diarrheal disease control. | 1 | William Smith | August 82 |
| Swaziland | To conduct a communication planning seminar and a radio production workshop | 4 | Allan Kulakov Esta de Fossard Bette Booth Rachel Greenberg | October 82 |
| Mauritania | To assist in planning the health education and communication component of a health sector grant | 1 | Mark Lediard | October 82 |
| Zimbabwe | To conduct a planning study and follow-up seminar for the Ministry of Education and Culture Planning Study team developed a microcomputer-based planning simulation model to project new schools and other administrative projections. Follow-up seminar trained GOZ officials in use of computer hardware/software | | | November/December 82 |
| Ecuador | To assist in a health education planning study to plan pilot media campaign aimed at prevention and treatment of diarrheal disease (in cooperation with the American Public Health Association) | 1 | Reynaldo Pareja | November 82 |

| AID Country/Bureau | Purpose of Technical Assistance Requested | Number of Consultants | Name of Consultant(s) | Scheduled Dates |
|----------------------------|--|-----------------------|--|---------------------|
| <u>PROJECTED</u> | | | | |
| Selected African countries | To assist planning team to study health education component of immunization, diarrheal disease control and malaria control programs (in cooperation with Expond Associates) | 1 | William Smith | January/February 83 |
| Swaziland | To provide follow-up to October, 82, seminar by working with Ministry of Health Staff to plan, design and create radio materials and tapes for health messages | 2 | Esta de Fossard Maria Roubama | February/March 83 |
| Jamaica | To develop a pilot study on two-way radio and health care delivery | 1 or 2 | To be determined | February/March 83 |
| Ecuador | To conduct a seminar to evaluate experience gained in pilot anti-diarrheal disease campaign and kick off national campaign | 3 | William Smith Renaldo Pareja TBN | April 83 |
| Egypt | To conduct field technical assistance for USAID in conjunction with its project with the State Information Service(Radio). Will provide management plan, operation plan and program development assistance for family planning radio series. USAID funded. | 3 | John Middleton Kurt Moses TBN | April-September 83 |