Infrastructure of Information Technology Education in Taiwan

--- An Introduction to the Information Technology Education Infrastructure Project

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Content

- Background
- Objectives
- Major Tasks
- Current Progress
- The Stimulus Package
- Future Development
- Expected Results and Implications
Background

- **Education Reform Committee:**
  
  “To facilitate curriculum reform of primary and secondary schools”
  “To develop tools and networks of computer-aided teaching”

- **Consolidation of Current Projects**
  * Computer-Aided Teaching Software Project
  * Information Technology Education Project
  * TANet to Primary and Secondary Schools Project

- **Information Technology Education Infrastructure Project** (July, 1997 - June, 2001)
Objectives

- **Short-term Objectives** (July, 1997 - June, 2001)
  - To upgrade hardware, to expand TANet
  - To enrich information education teaching resources and to improve teaching methods
  - To increase teachers’ training
  - To promote knowledge of information technology

- **Long-term Objectives** (July, 2001 - June, 2007)
  - Computers for every classroom, multi-media and Internet for teaching resources
  - To enable schools to create innovative teaching resources
  - To reach 100% computer literacy of students and teachers
Current Progress
Upgrading Facilities and Expanding TANet

- One Computer for Every Student in Computer Rooms
- To Fund Primary and Secondary School Connections to TANet
- To Fund Selected Schools of Computer Access in All Classrooms
- To Fund Secondary Schools to Purchase Teaching Software
- To Experiment Resource-sharing With Local Communities
Teaching Network Environment

PC - Teacher
- Pentium II 300+ CPU
- 15” Color Monitor
- 128MB+ RAM
- 6G+ Hard Disk, CD-ROM, Sound Card

PC - Student
- Pentium II 300+ CPU
- 15” Color Monitor
- 64 MB+ RAM
- 4G+ Hard Disk, CD-ROM, Sound Card

One network printer every 10 Students (including one or more laser printer)

Access to Internet

Safety Certification

Teaching Software
Networks

- School Access to TANet
  * Organize Task Forces
  * Education Network Centers for Every County
  * Network Resource AP System
  * Upgrade Network Bandwidth
  * Expand County Education Network Centers
  * Current: 51 County Centers
Teachers’ Training

- **Courses:**
  - Introduction to Computer
  - CAI Design
  - TANet Management
  - General AP

- As of the 1997 School Year, 78,423 Attendees, about 41% of all Primary and Secondary School Teachers
Enrichment of Teaching Resources

- Produce CAI CD-ROM Series
- Organize “Golden Learning Award”
- Establish a Resource-sharing Web Site: <http://content.edu.tw>
- Produce Network Teaching Material for Primary and Secondary Schools
- Fund Schools in Purchasing Teaching Software
Software and Teaching Resource Centers

National Center

Local Centers

Primary School Division
Middle School Division
High School Division
Vocational School Division
Improvement of Teaching Methods

- Fund Schools in Purchasing Notebook Computers
- Incorporate CD-ROM Series into Teaching
- Strength the Use of Network in Teaching - Selected Schools
- Incorporate CAI into Teaching Plans
- Seminars of New Teaching Methods
The Stimulus Package - I

- A Budget Increase of NTD 6.47 Billion in Information Education
- Computers for all Schools and One Machine per Student
- Expansion of County Network Centers
- Fund Communication Fees of Remote Schools
- Fund Teaching Software Purchase of Primary and Secondary Schools
The Stimulus Package - II

- Training in Information Technology for all Teachers
- Fund Selected Schools in Purchasing Notebook Computers
- Fund Normal Colleges in Purchasing Information Education Facilities
- Computer Rooms for the Handicapped
## The Stimulus Package - III

### Original Target

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### The Stimulus Package

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Future Development - I

- To Continue Upgrading Hardware and Software; to Equip all Classrooms with Computer and Network
- To Strength Teachers’ Training
- To Utilize Distance Learning for Teachers’ Continuous Update of Information Technology
- CAI in all Disciplines
Future Development - II

- Information Education Resource Centers in High Schools and Vocational Schools
- Exhibitions, Seminars, and Demonstrations of Information Education
- Universities and Private Sector Participation of Information Education
Thank You