

Infrastructure of Information Technology Education in Taiwan

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

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- ◆ **Background**
- ◆ **Objectives**
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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)

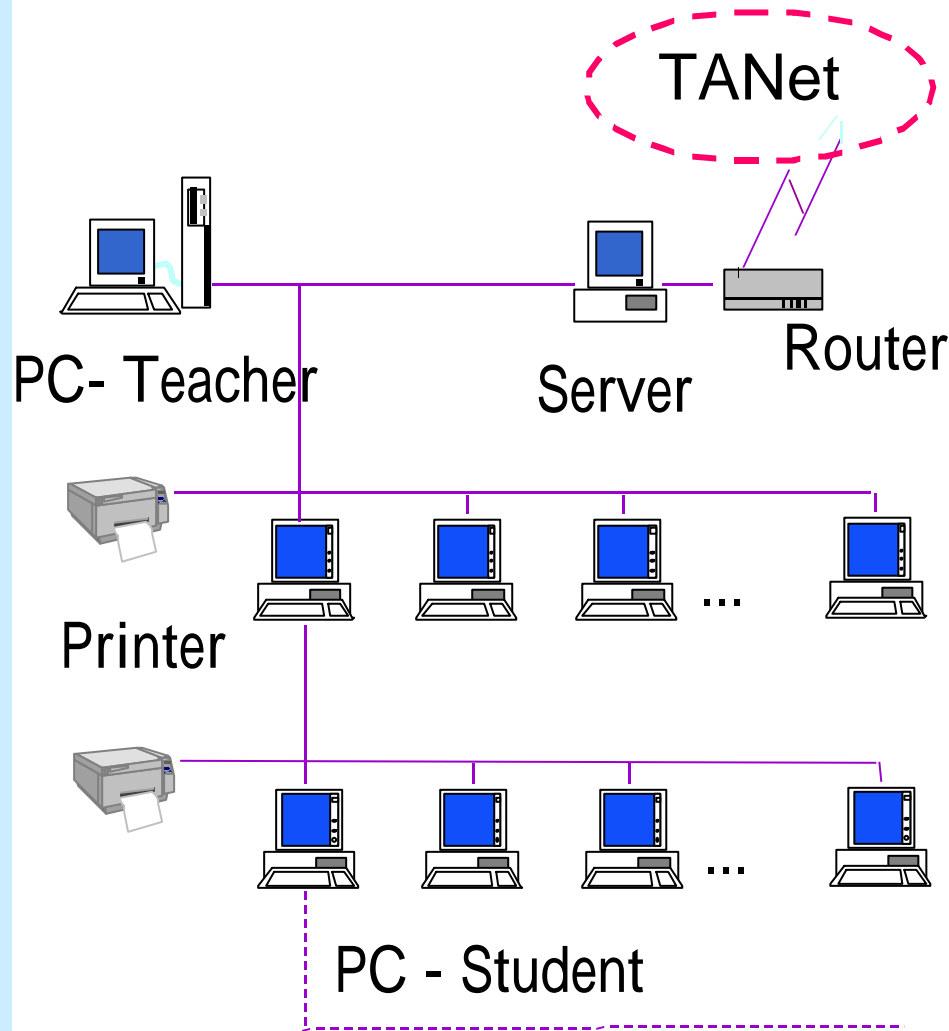
- * Computers for every classroom, multi-media and Internet for teaching resources
- * To enable schools to create innovative teaching resources
- * To reach 100% computer literacy of students and teachers

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

Computer Room



◆ 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

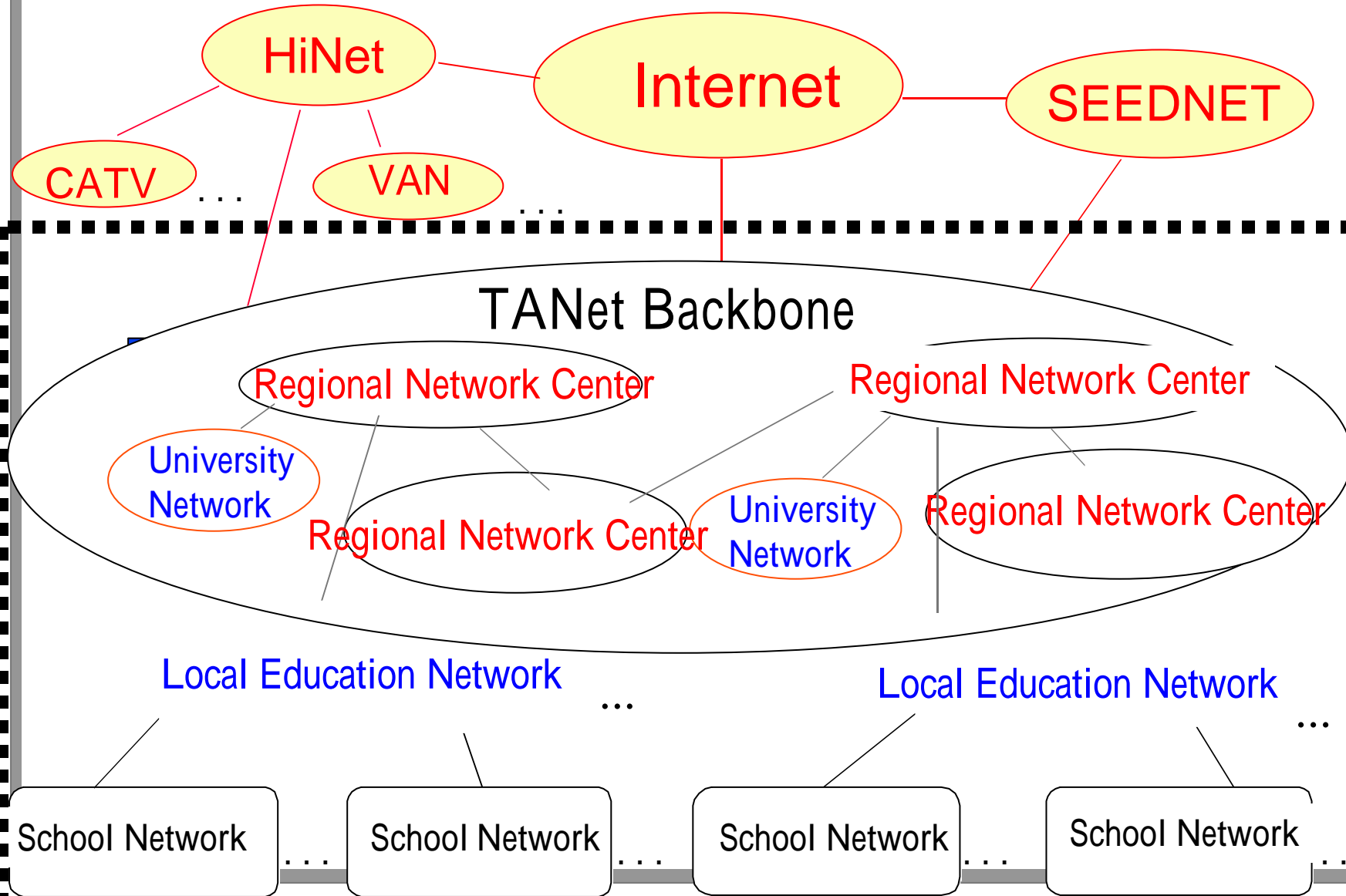
◆ One network printer every 10 Students (including one or more laser printer)

◆ Access to Internet

◆ Safety Certification

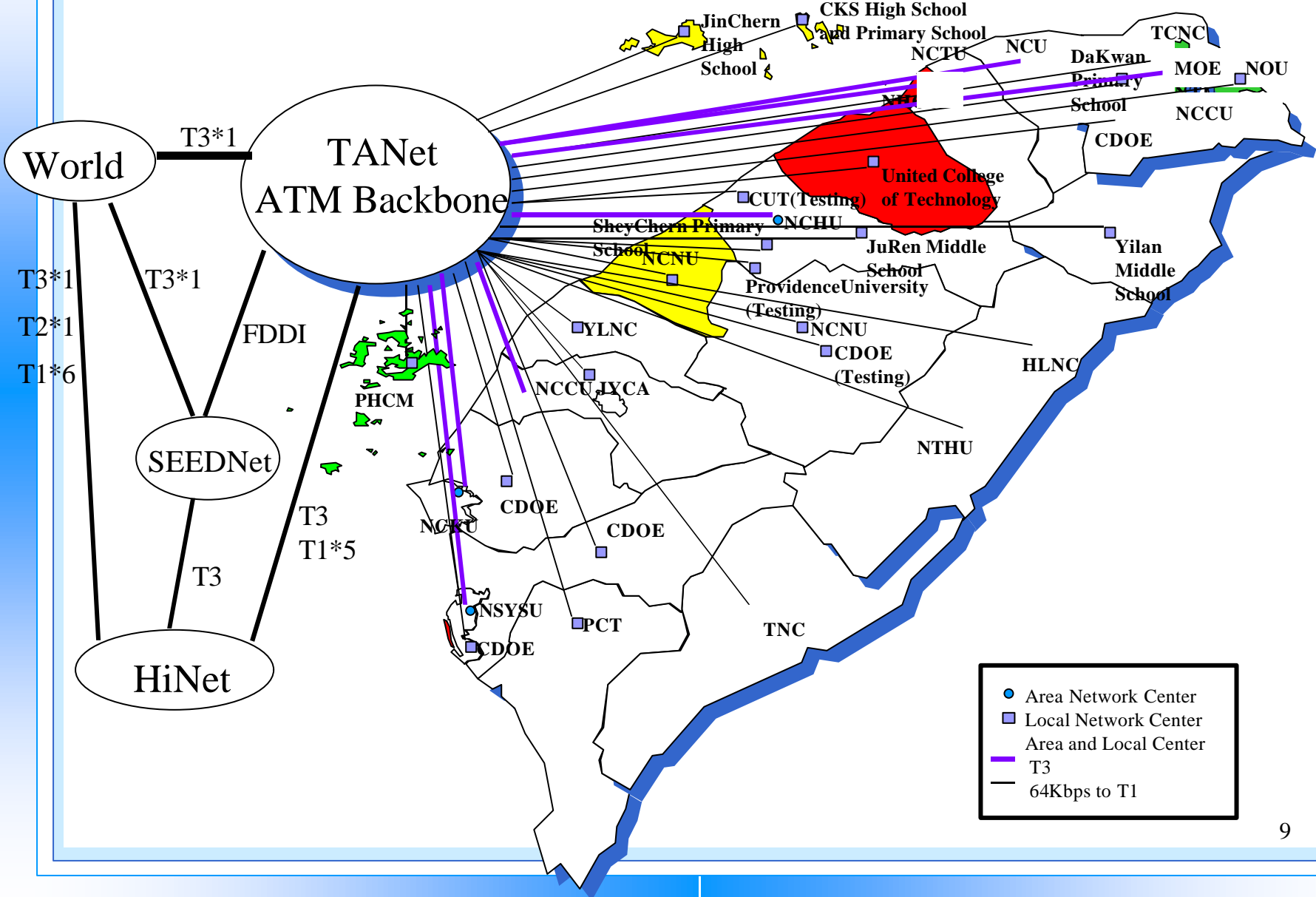
◆ Teaching Software

Network Structure



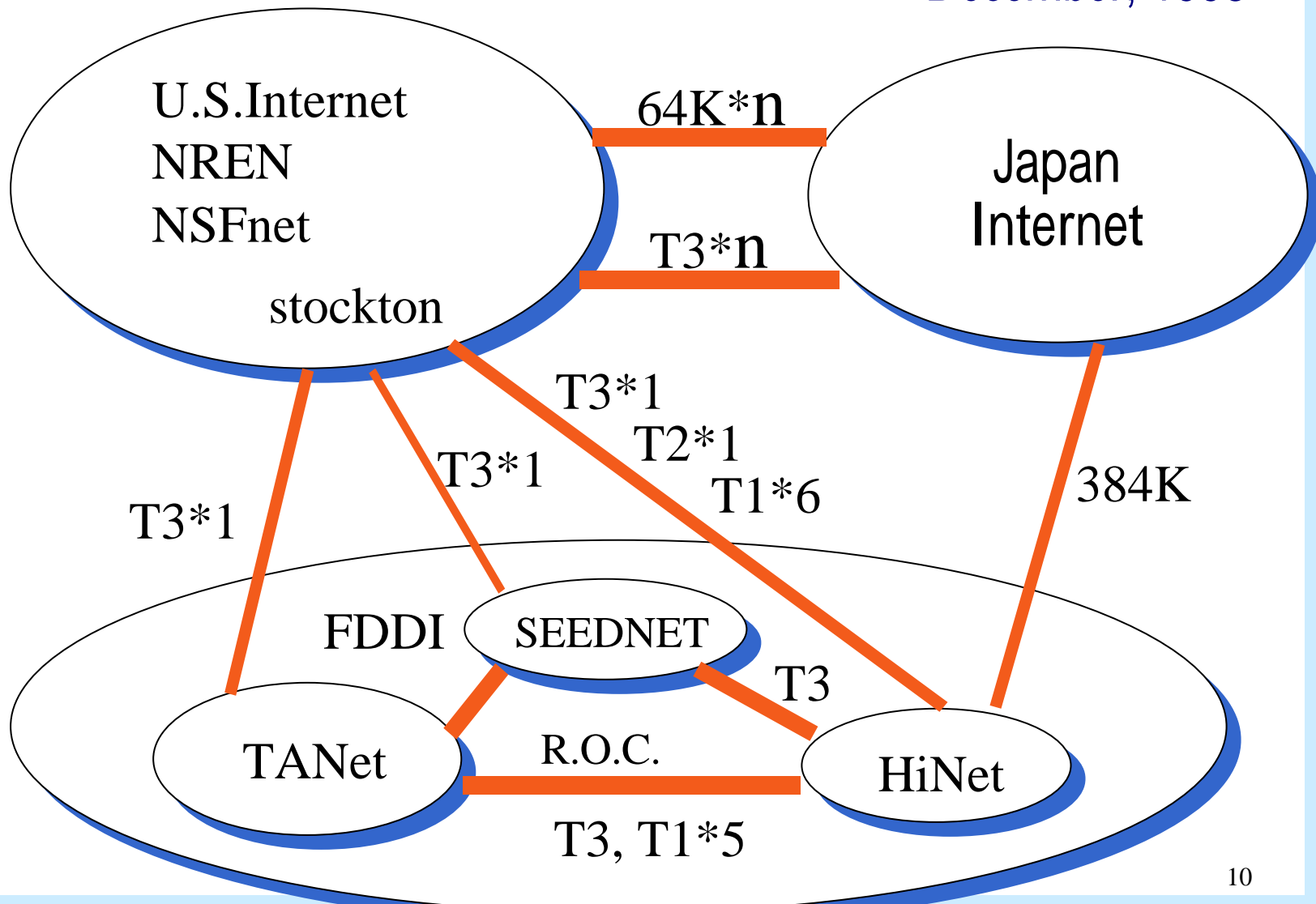
TANet Backbone

December, 1998



TANet and Internet

December, 1998



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:

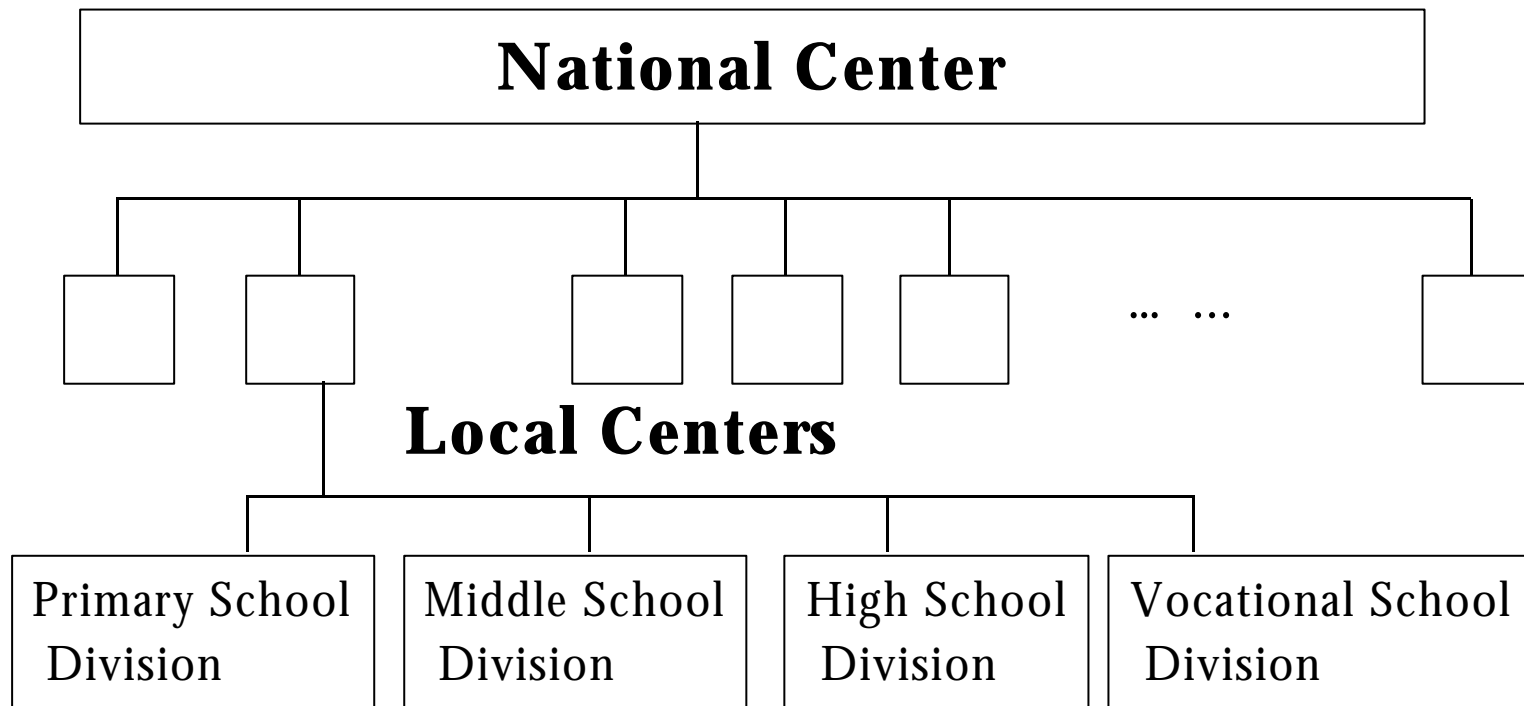
- Introduction to Computer
- CAI Design
- TANet Management
- General AP

- ## ◆ 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



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

ITEM		1998	1999	2000	2001
Computer Room	Primary School	40%	60%	80%	100%
Network	Primary School	20%	40%	60%	80%
Teachers Training	Primary & Middle School	40%	50%	60%	70%

◆ The Stimulus Package

ITEM		1998	1999	2000	2001
Computer Room	Primary School	40%	100%	----	----
Network	Primary School	20%	100%	----	----
Teachers Training	Primary & Middle School	40%	100%	----	----

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

